

Cover Page

Order ID : Q1488

Project ID : Amtrak Sawtooth Bridges 2025

Client : Portal Partners Tri-Venture

Lab Sample Number

Q1488-01
Q1488-02
Q1488-03
Q1488-04
Q1488-05
Q1488-06
Q1488-07
Q1488-08
Q1488-09
Q1488-10
Q1488-11
Q1488-12
Q1488-13
Q1488-14
Q1488-15

Client Sample Number

ENV-101-SB01
ENV-101-SB01
ENV-101-SB02
ENV-101-SB02
ENV-102-SB01
ENV-102-SB01
ENV-102-SB02
ENV-102-SB02
ENV-104-SB01
ENV-104-SB01
ENV-104-SB02
ENV-104-SB02
ENV-102-GW01
ENV-104-GW01
TB03042025

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

Signature : _____

Date: 3/8/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

DATA REPORTING QUALIFIERS- ORGANIC

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1488

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: MAYUR DESAI

Date: 03/08/2025

LAB CHRONICLE

OrderID:	Q1488	OrderDate:	3/4/2025 3:39:00 PM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	Location:	H31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1488-02	ENV-101-SB01	TCLP	TCLP VOA	8260D	03/04/25		03/06/25	03/04/25
Q1488-04	ENV-101-SB02	TCLP	TCLP VOA	8260D	03/04/25		03/06/25	03/04/25
Q1488-06	ENV-102-SB01	TCLP	TCLP VOA	8260D	03/04/25		03/06/25	03/04/25
Q1488-08	ENV-102-SB02	TCLP	TCLP VOA	8260D	03/04/25		03/06/25	03/04/25
Q1488-10	ENV-104-SB01	TCLP	TCLP VOA	8260D	03/04/25		03/06/25	03/04/25
Q1488-12	ENV-104-SB02	TCLP	TCLP VOA	8260D	03/04/25		03/06/25	03/04/25
Q1488-14DL	ENV-104-GW01DL	TCLP	TCLP VOA		03/04/25		03/06/25	03/04/25

Hit Summary Sheet
SW-846

SDG No.: Q1488
Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: Q1488-02	ENV-101-SB01 ENV-101-SB01	TCLP	2-Butanone	5.20	J	1.30	25.0	ug/L
			Total Voc :	5.20				
			Total Concentration:	5.20				
Client ID: Q1488-04	ENV-101-SB02 ENV-101-SB02	TCLP	2-Butanone	6.10	J	1.30	25.0	ug/L
			Total Voc :	6.10				
			Total Concentration:	6.10				
Client ID: Q1488-06	ENV-102-SB01 ENV-102-SB01	TCLP	2-Butanone	6.20	J	1.30	25.0	ug/L
			Total Voc :	6.20				
			Total Concentration:	6.20				
Client ID: Q1488-08	ENV-102-SB02 ENV-102-SB02	TCLP	2-Butanone	5.70	J	1.30	25.0	ug/L
			Total Voc :	5.70				
			Total Concentration:	5.70				
Client ID: Q1488-10	ENV-104-SB01 ENV-104-SB01	TCLP	2-Butanone	5.40	J	1.30	25.0	ug/L
			Total Voc :	5.40				
			Total Concentration:	5.40				
Client ID: Q1488-12	ENV-104-SB02 ENV-104-SB02	TCLP	2-Butanone	6.80	J	1.30	25.0	ug/L
			Total Voc :	6.80				
			Total Concentration:	6.80				



QC SUMMARY

Surrogate Summary

SDG No.: **Q1488**

Client: **Portal Partners Tri-Venture**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1488-02	ENV-101-SB01	1,2-Dichloroethane-d4	50	54.4	109	70 (74)	130 (125)
		Dibromofluoromethane	50	51.8	104	70 (75)	130 (124)
		Toluene-d8	50	51.8	104	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.0	104	70 (77)	130 (121)
Q1488-04	ENV-101-SB02	1,2-Dichloroethane-d4	50	54.6	109	70 (74)	130 (125)
		Dibromofluoromethane	50	52.1	104	70 (75)	130 (124)
		Toluene-d8	50	53.2	106	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.6	105	70 (77)	130 (121)
Q1488-06	ENV-102-SB01	1,2-Dichloroethane-d4	50	53.8	108	70 (74)	130 (125)
		Dibromofluoromethane	50	51.5	103	70 (75)	130 (124)
		Toluene-d8	50	51.1	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.2	104	70 (77)	130 (121)
Q1488-08	ENV-102-SB02	1,2-Dichloroethane-d4	50	53.5	107	70 (74)	130 (125)
		Dibromofluoromethane	50	51.1	102	70 (75)	130 (124)
		Toluene-d8	50	50.8	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.8	102	70 (77)	130 (121)
Q1488-10	ENV-104-SB01	1,2-Dichloroethane-d4	50	52.8	106	70 (74)	130 (125)
		Dibromofluoromethane	50	50.6	101	70 (75)	130 (124)
		Toluene-d8	50	51.6	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.9	104	70 (77)	130 (121)
Q1488-12	ENV-104-SB02	1,2-Dichloroethane-d4	50	52.4	105	70 (74)	130 (125)
		Dibromofluoromethane	50	50.0	100	70 (75)	130 (124)
		Toluene-d8	50	52.1	104	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.5	105	70 (77)	130 (121)

Surrogate Summary

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1501-05MS	BR-05-465-030525MS	1,2-Dichloroethane-d4	50	51.4	103	70 (74)	130 (125)
		Dibromofluoromethane	50	0	0 *	70 (75)	130 (124)
		Toluene-d8	50	53.2	106	70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.7	109	70 (77)	130 (121)
Q1501-06MSD	BR-05-465-030525MSD	1,2-Dichloroethane-d4	50	49.2	98	70 (74)	130 (125)
		Dibromofluoromethane	50	0	0 *	70 (75)	130 (124)
		Toluene-d8	50	48.1	96	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.8	98	70 (77)	130 (121)
VX0306WBL01	VX0306WBL01	1,2-Dichloroethane-d4	50	53.9	108	70 (74)	130 (125)
		Dibromofluoromethane	50	52.4	105	70 (75)	130 (124)
		Toluene-d8	50	52.3	105	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.8	104	70 (77)	130 (121)
VX0306WBS01	VX0306WBS01	1,2-Dichloroethane-d4	50	50.2	100	70 (74)	130 (125)
		Dibromofluoromethane	50	50.9	102	70 (75)	130 (124)
		Toluene-d8	50	50.3	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.2	98	70 (77)	130 (121)

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Limits											
Parameter	Spike	Sample Result	Result	Units	Rec	Qual	RPD	RPD Qual	Low	High	RPD
Lab Sample ID :	Q1501-05MS	Client Sample ID :	BR-05-465-030525MS					Datafile :	VX045163.D		
Vinyl chloride	50	0	47.4	ug/L	95				70 (69)	130 (125)	
1,1-Dichloroethene	50	0	70.0	ug/L	140	*			70 (53)	130 (162)	
2-Butanone	250	5.70	290	ug/L	114				40 (67)	160 (137)	
Carbon Tetrachloride	50	0	50.1	ug/L	100				70 (66)	130 (133)	
Chloroform	50	0	50.2	ug/L	100				70 (83)	130 (119)	
Benzene	50	0	51.7	ug/L	103				70 (81)	130 (128)	
1,2-Dichloroethane	50	0	51.6	ug/L	103				70 (76)	130 (120)	
Trichloroethene	50	0	94.9	ug/L	190	*			70 (28)	130 (175)	
Tetrachloroethene	50	0	88.9	ug/L	178	*			70 (48)	130 (153)	
Chlorobenzene	50	0	51.6	ug/L	103				70 (85)	130 (114)	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Limits											
Parameter	Spike	Sample Result	Result	Units	Rec	Qual	RPD	RPD Qual	Low	High	RPD
Lab Sample ID :	Q1501-06MSD	Client Sample ID :	BR-05-465-030525MSD					Datafile :	VX045164.D		
Vinyl chloride	50	0	43.3	ug/L	87		9		70 (69)	130 (125)	20 (20)
1,1-Dichloroethene	50	0	73.0	ug/L	146	*	4		70 (53)	130 (162)	20 (20)
2-Butanone	250	5.70	280	ug/L	110		4		40 (67)	160 (137)	20 (20)
Carbon Tetrachloride	50	0	47.3	ug/L	95		6		70 (66)	130 (133)	20 (20)
Chloroform	50	0	48.6	ug/L	97		3		70 (83)	130 (119)	20 (20)
Benzene	50	0	49.0	ug/L	98		5		70 (81)	130 (128)	20 (20)
1,2-Dichloroethane	50	0	49.8	ug/L	100		4		70 (76)	130 (120)	20 (20)
Trichloroethene	50	0	91.5	ug/L	183	*	4		70 (28)	130 (175)	20 (20)
Tetrachloroethene	50	0	85.3	ug/L	171	*	4		70 (48)	130 (153)	20 (20)
Chlorobenzene	50	0	49.8	ug/L	100		4		70 (85)	130 (114)	20 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX045158.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0306WBS01	Vinyl chloride	20	19.4	ug/L	97			70 (65)	130 (117)	
	1,1-Dichloroethene	20	21.3	ug/L	106			70 (74)	130 (110)	
	2-Butanone	100	100	ug/L	100			40 (65)	160 (122)	
	Carbon Tetrachloride	20	20.5	ug/L	103			70 (77)	130 (113)	
	Chloroform	20	21.2	ug/L	106			70 (79)	130 (113)	
	Benzene	20	21.5	ug/L	108			70 (82)	130 (109)	
	1,2-Dichloroethane	20	21.4	ug/L	107			70 (80)	130 (115)	
	Trichloroethene	20	20.8	ug/L	104			70 (77)	130 (113)	
	Tetrachloroethene	20	22.2	ug/L	111			70 (67)	130 (123)	
	Chlorobenzene	20	21.6	ug/L	108			70 (82)	130 (109)	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0306WBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: Q1488

SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VX045157.D

Lab Sample ID: VX0306WBL01

Date Analyzed: 03/06/2025

Time Analyzed: 10:46

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0306WBS01	VX0306WBS01	VX045158.D	03/06/2025
BR-05-465-030525MS	Q1501-05MS	VX045163.D	03/06/2025
BR-05-465-030525MSD	Q1501-06MSD	VX045164.D	03/06/2025
ENV-101-SB01	Q1488-02	VX045170.D	03/06/2025
ENV-101-SB02	Q1488-04	VX045171.D	03/06/2025
ENV-102-SB01	Q1488-06	VX045172.D	03/06/2025
ENV-102-SB02	Q1488-08	VX045173.D	03/06/2025
ENV-104-SB01	Q1488-10	VX045174.D	03/06/2025
ENV-104-SB02	Q1488-12	VX045175.D	03/06/2025

COMMENTS: _____



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488
Lab File ID: VX045067.D BFB Injection Date: 02/28/2025
Instrument ID: MSVOA_X BFB Injection Time: 01:03
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.7
75	30.0 - 60.0% of mass 95	53.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	73.8
175	5.0 - 9.0% of mass 174	5.8 (7.9) 1
176	95.0 - 101.0% of mass 174	70.6 (95.6) 1
177	5.0 - 9.0% of mass 176	4.3 (6.2) 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
VSTDIC001	VSTDIC001	VX045068.D	02/28/2025	01:27
VSTDIC005	VSTDIC005	VX045069.D	02/28/2025	02:13
VSTDIC020	VSTDIC020	VX045070.D	02/28/2025	02:37
VSTDIC050	VSTDIC050	VX045071.D	02/28/2025	03:00
VSTDIC100	VSTDIC100	VX045072.D	02/28/2025	03:23
VSTDIC150	VSTDIC150	VX045073.D	02/28/2025	03:47



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488
Lab File ID: VX045154.D BFB Injection Date: 03/06/2025
Instrument ID: MSVOA_X BFB Injection Time: 09:09
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.5
75	30.0 - 60.0% of mass 95	54
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.8 (1.1) 1
174	50.0 - 100.0% of mass 95	70.6
175	5.0 - 9.0% of mass 174	5.3 (7.5) 1
176	95.0 - 101.0% of mass 174	67.9 (96.1) 1
177	5.0 - 9.0% of mass 176	4.5 (6.6) 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
VSTDCCC050	VSTDCCC050	VX045155.D	03/06/2025	09:56
VX0306WBL01	VX0306WBL01	VX045157.D	03/06/2025	10:46
VX0306WBS01	VX0306WBS01	VX045158.D	03/06/2025	11:10
BR-05-465-030525MS	Q1501-05MS	VX045163.D	03/06/2025	13:09
BR-05-465-030525MSD	Q1501-06MSD	VX045164.D	03/06/2025	13:33
ENV-101-SB01	Q1488-02	VX045170.D	03/06/2025	15:52
ENV-101-SB02	Q1488-04	VX045171.D	03/06/2025	16:16
ENV-102-SB01	Q1488-06	VX045172.D	03/06/2025	16:39
ENV-102-SB02	Q1488-08	VX045173.D	03/06/2025	17:02
ENV-104-SB01	Q1488-10	VX045174.D	03/06/2025	17:25
ENV-104-SB02	Q1488-12	VX045175.D	03/06/2025	17:49

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488
 Lab File ID: VX045155.D Date Analyzed: 03/06/2025
 Instrument ID: MSVOA_X Time Analyzed: 09:56
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	99532	5.54	175834	6.76	153746	10.05
UPPER LIMIT	199064	6.044	351668	7.257	307492	10.549
LOWER LIMIT	49766	5.044	87917	6.257	76873	9.549
EPA SAMPLE NO.						
ENV-101-SB01	78735	5.55	160534	6.76	146470	10.05
ENV-101-SB02	76620	5.54	153454	6.76	144581	10.05
ENV-102-SB01	84608	5.55	167928	6.76	153445	10.05
ENV-102-SB02	76581	5.54	156077	6.76	139915	10.05
ENV-104-SB01	75491	5.55	152473	6.76	138291	10.05
ENV-104-SB02	75040	5.55	148256	6.76	137450	10.05
BR-05-465-030525MS	101112	5.54	179083	6.76	156313	10.06
BR-05-465-030525MSD	100565	5.55	182698	6.76	154927	10.05
VX0306WBL01	71177	5.54	139793	6.76	129041	10.05
VX0306WBS01	97102	5.54	175752	6.76	147757	10.05

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488
 Lab File ID: VX045155.D Date Analyzed: 03/06/2025
 Instrument ID: MSVOA_X Time Analyzed: 09:56
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	69403	12.018				
UPPER LIMIT	138806	12.518				
LOWER LIMIT	34701.5	11.518				
EPA SAMPLE NO.						
ENV-101-SB01	59867	12.02				
ENV-101-SB02	55987	12.02				
ENV-102-SB01	63036	12.02				
ENV-102-SB02	57260	12.02				
ENV-104-SB01	55464	12.02				
ENV-104-SB02	56384	12.02				
BR-05-465-030525MS	67219	12.02				
BR-05-465-030525MSD	68360	12.02				
VX0306WBL01	53719	12.02				
VX0306WBS01	67123	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 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:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-02	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045170.D	1		03/06/25 15:52	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	5.20	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.4		70 (74) - 130 (125)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	51.8		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.0		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	78700	5.55			
540-36-3	1,4-Difluorobenzene	161000	6.757			
3114-55-4	Chlorobenzene-d5	146000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	59900	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045170.D
 Acq On : 06 Mar 2025 15:52
 Operator : JC/MD
 Sample : Q1488-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ENV-101-SB01

Quant Time: Mar 07 00:45:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

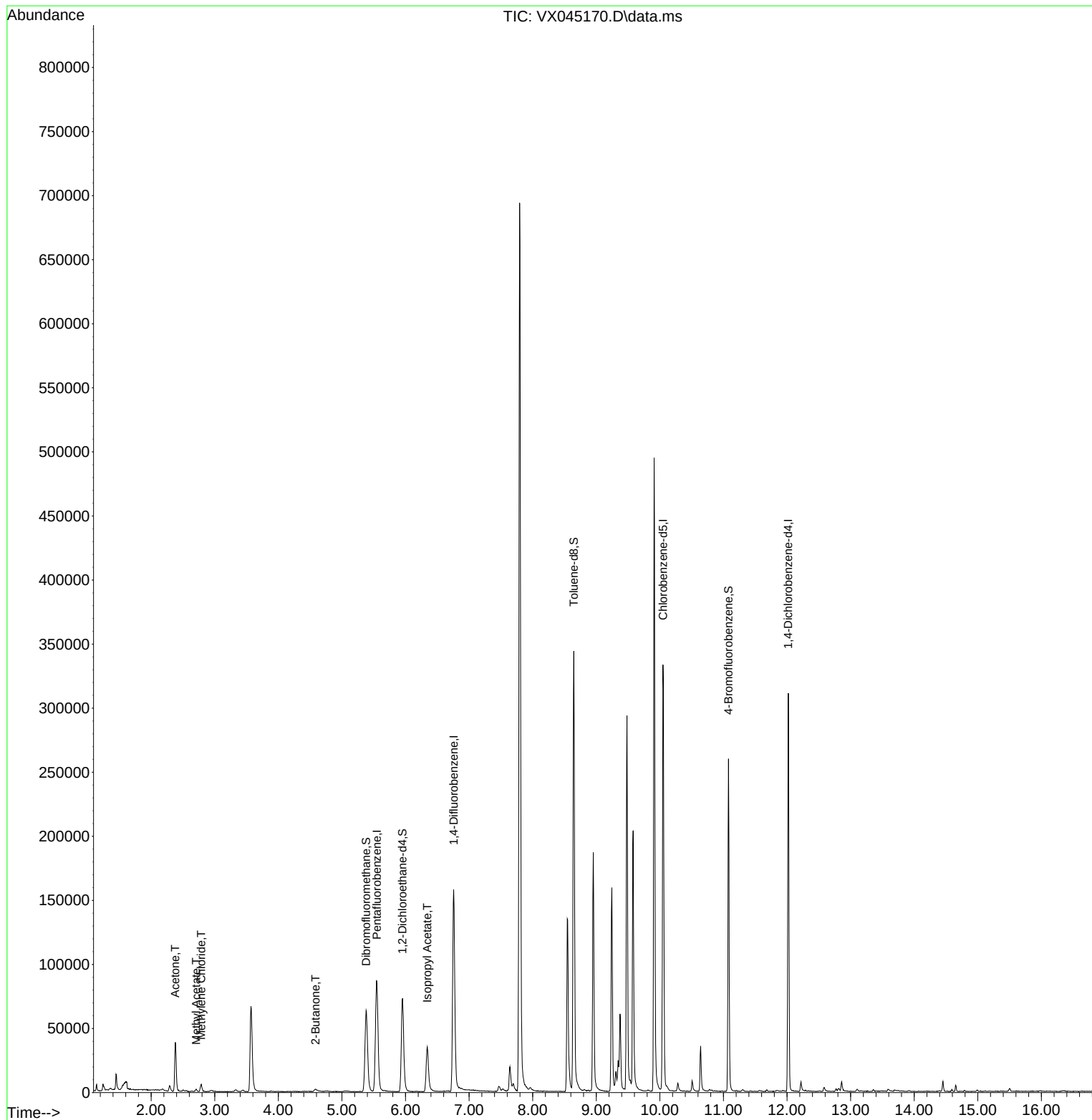
Internal Standards						
1) Pentafluorobenzene	5.550	168	78735	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	160534	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	146470	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	59867	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	68170	54.432	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	108.860%
35) Dibromofluoromethane	5.379	113	55628	51.822	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.640%
50) Toluene-d8	8.647	98	201436	51.761	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.520%
62) 4-Bromofluorobenzene	11.079	95	67095	52.029	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	104.060%
Target Compounds						
					Qvalue	
16) Acetone	2.380	43	41771	71.886	ug/l	100
18) Methyl Acetate	2.709	43	2222	1.590	ug/l	97
20) Methylene Chloride	2.788	84	2646	2.299	ug/l	89
25) 2-Butanone	4.587	43	4567	5.221	ug/l	97
43) Isopropyl Acetate	6.342	43	50668	18.063	ug/l	98

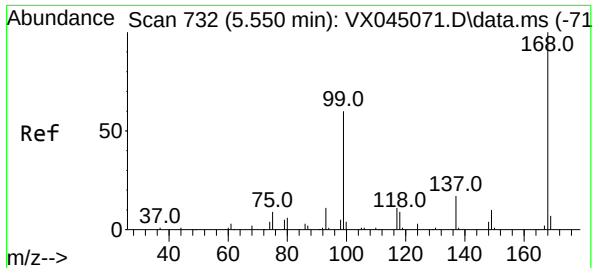
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045170.D
Acq On : 06 Mar 2025 15:52
Operator : JC/MD
Sample : Q1488-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB01

Quant Time: Mar 07 00:45:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

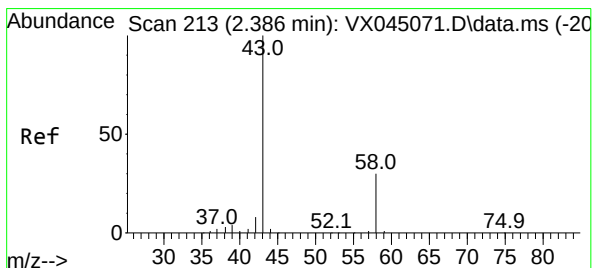
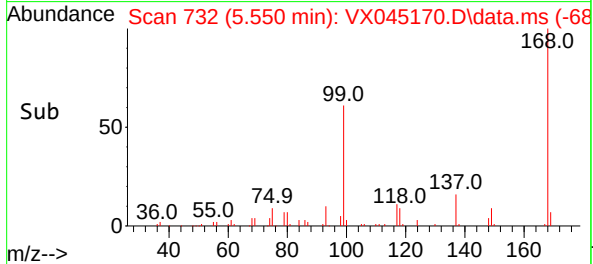
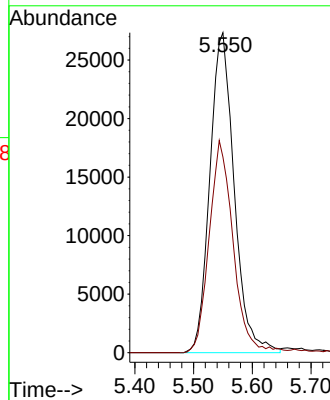
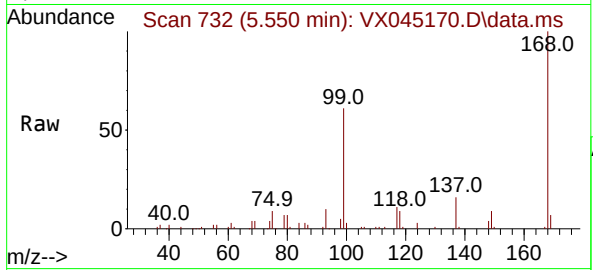




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX045170.D
Acq: 06 Mar 2025 15:52

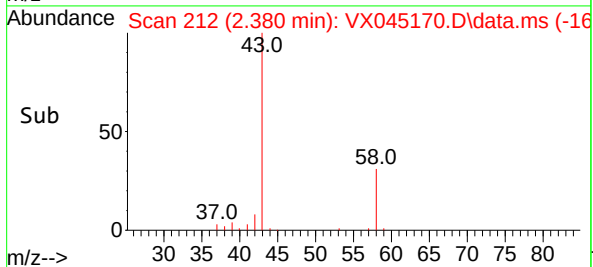
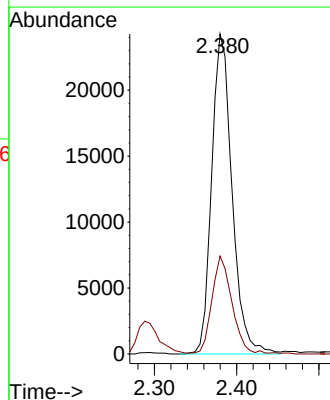
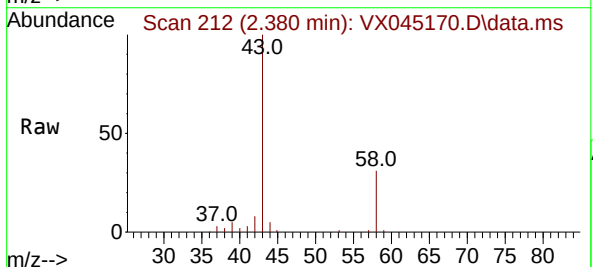
Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB01

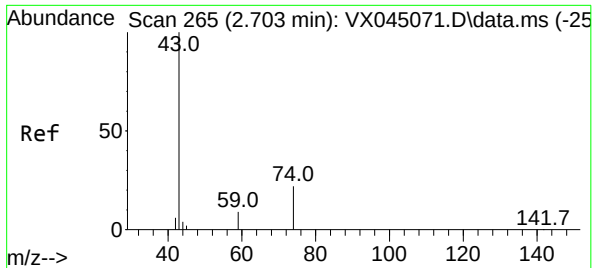
Tgt Ion:168 Resp: 78735
Ion Ratio Lower Upper
168 100
99 61.1 48.2 72.4



#16
Acetone
Concen: 71.886 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045170.D
Acq: 06 Mar 2025 15:52

Tgt Ion: 43 Resp: 41771
Ion Ratio Lower Upper
43 100
58 30.4 24.2 36.4





#18

Methyl Acetate

Concen: 1.590 ug/l

RT: 2.709 min Scan# 2

Delta R.T. 0.006 min

Lab File: VX045170.D

Acq: 06 Mar 2025 15:52

Instrument :

MSVOA_X

ClientSampleId :

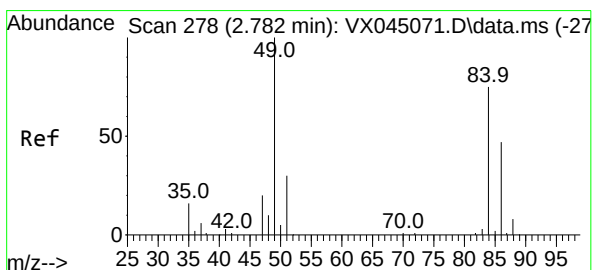
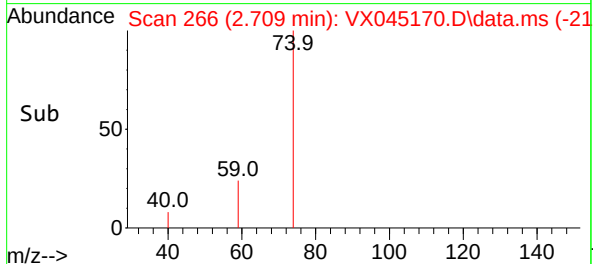
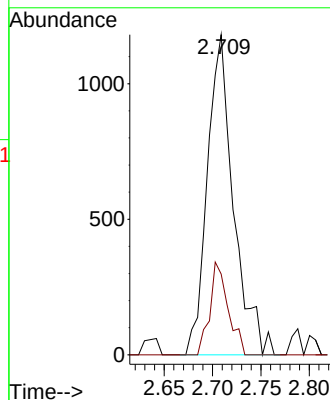
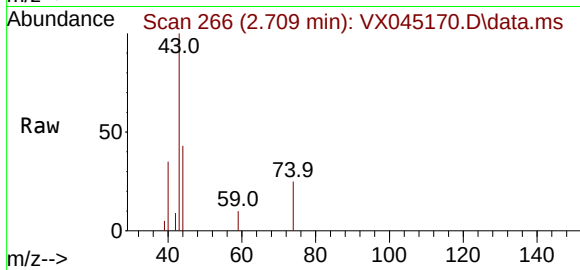
ENV-101-SB01

Tgt Ion: 43 Resp: 2222

Ion Ratio Lower Upper

43 100

74 20.2 17.4 26.2



#20

Methylene Chloride

Concen: 2.299 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.006 min

Lab File: VX045170.D

Acq: 06 Mar 2025 15:52

Tgt Ion: 84 Resp: 2646

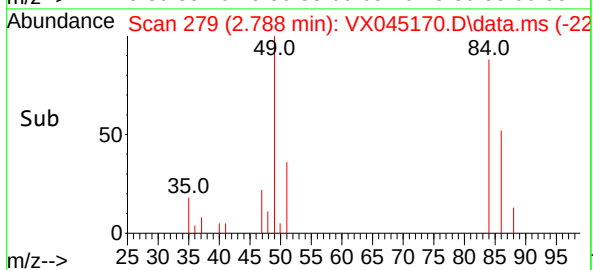
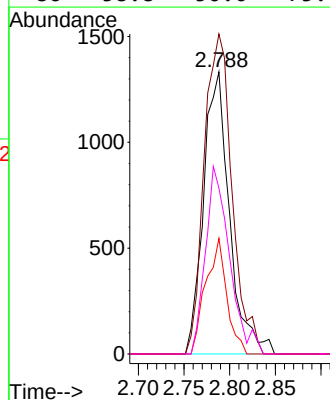
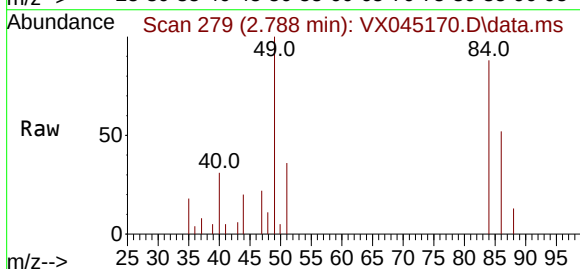
Ion Ratio Lower Upper

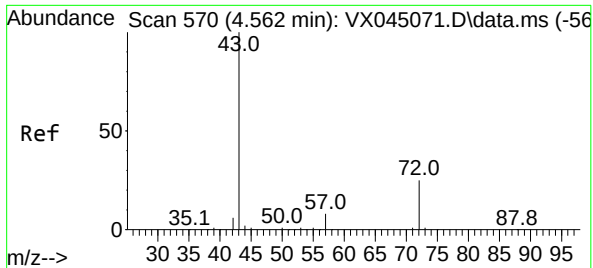
84 100

49 113.4 106.5 159.7

51 41.0 32.1 48.1

86 58.8 50.0 75.0





#25

2-Butanone

Concen: 5.221 ug/l

RT: 4.587 min Scan# 51

Delta R.T. 0.024 min

Lab File: VX045170.D

Acq: 06 Mar 2025 15:52

Instrument :

MSVOA_X

ClientSampleId :

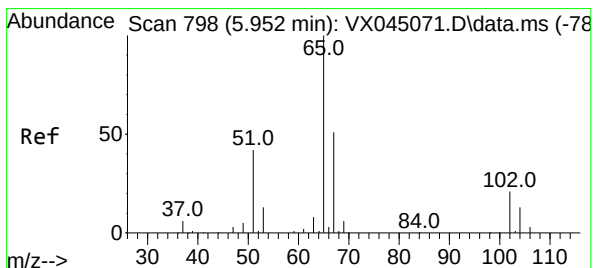
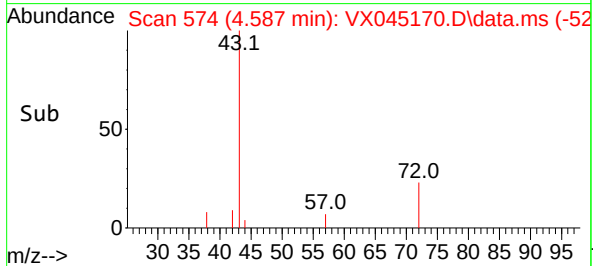
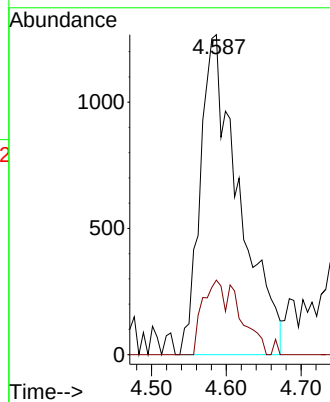
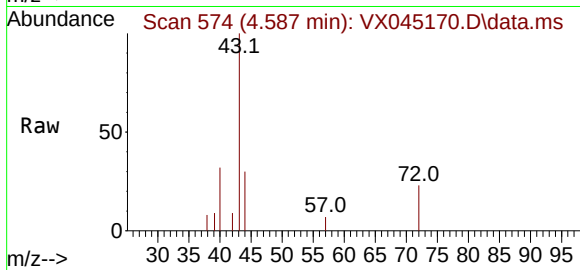
ENV-101-SB01

Tgt Ion: 43 Resp: 4567

Ion Ratio Lower Upper

43 100

72 23.3 20.0 30.0



#33

1,2-Dichloroethane-d4

Concen: 54.432 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045170.D

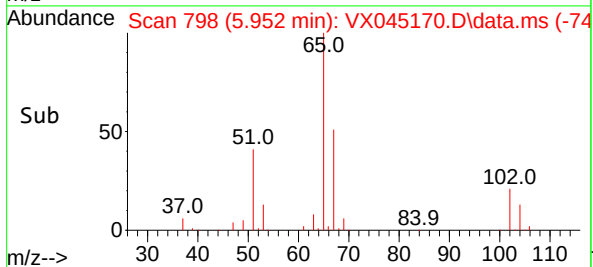
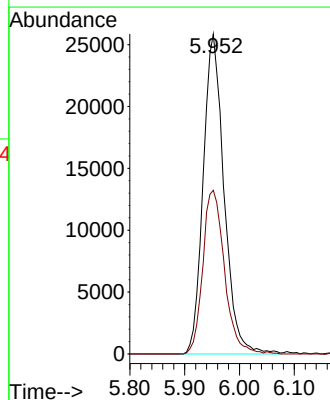
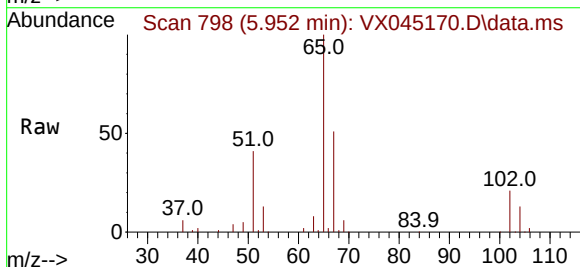
Acq: 06 Mar 2025 15:52

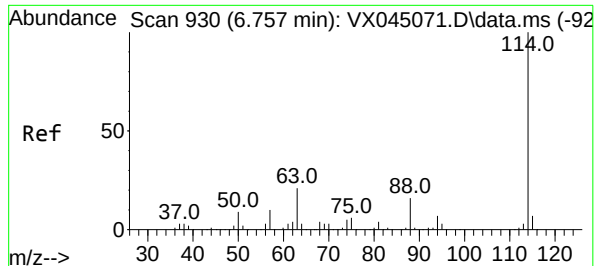
Tgt Ion: 65 Resp: 68170

Ion Ratio Lower Upper

65 100

67 53.1 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX045170.D

Acq: 06 Mar 2025 15:52

Instrument :

MSVOA_X

ClientSampleId :

ENV-101-SB01

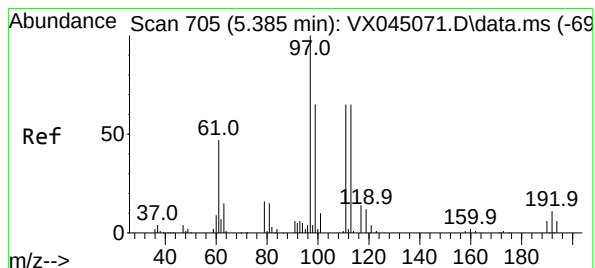
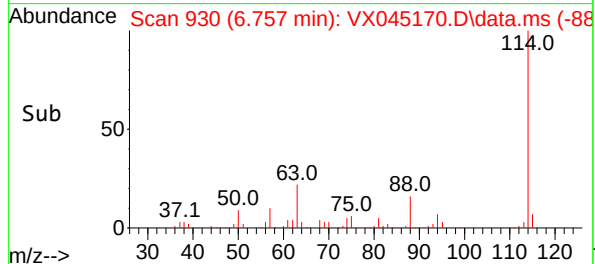
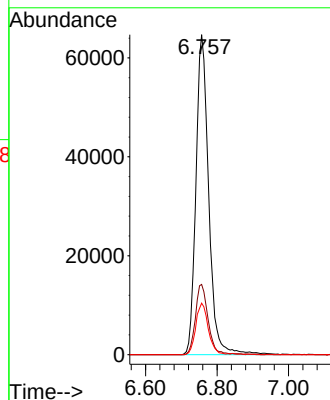
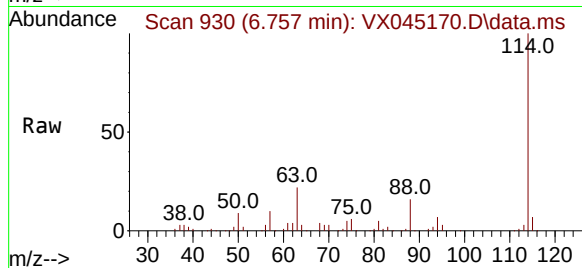
Tgt Ion:114 Resp: 160534

Ion Ratio Lower Upper

114 100

63 22.0 0.0 41.8

88 16.1 0.0 32.8



#35

Dibromofluoromethane

Concen: 51.822 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX045170.D

Acq: 06 Mar 2025 15:52

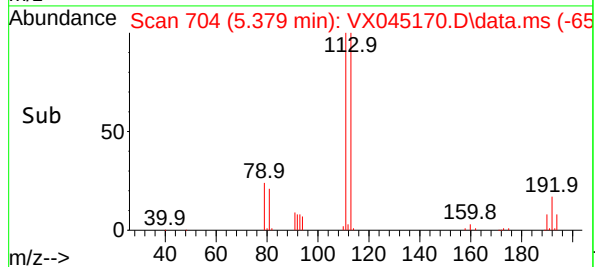
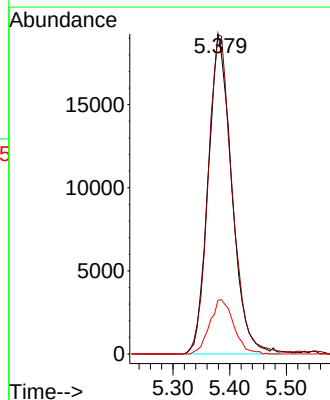
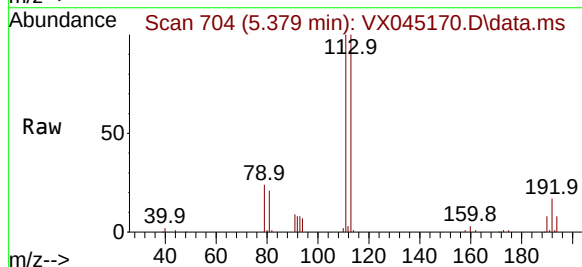
Tgt Ion:113 Resp: 55628

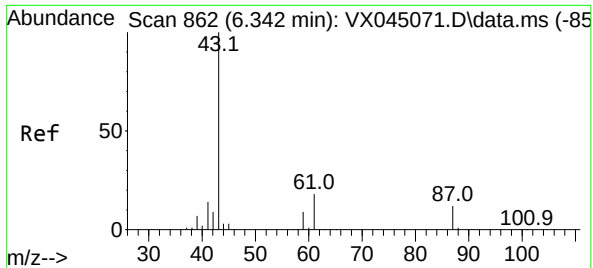
Ion Ratio Lower Upper

113 100

111 101.4 81.8 122.6

192 17.3 14.3 21.5

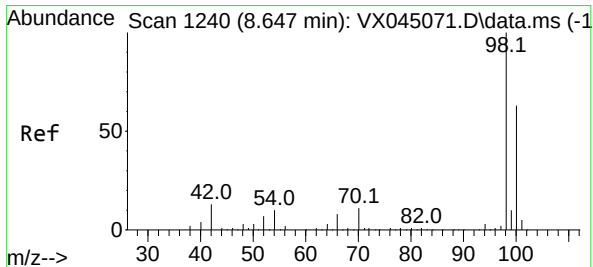
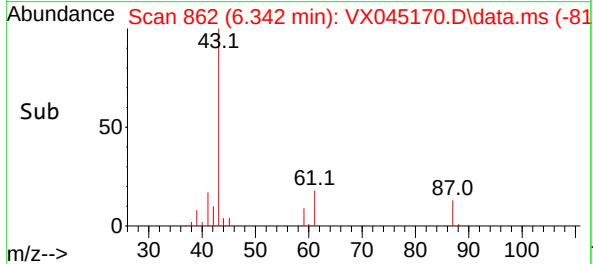
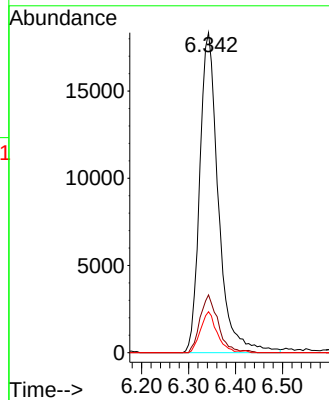
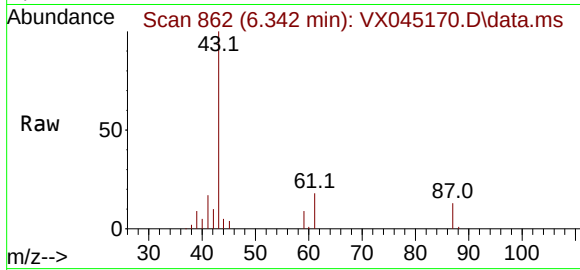




#43
Isopropyl Acetate
Concen: 18.063 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.000 min
Lab File: VX045170.D
Acq: 06 Mar 2025 15:52

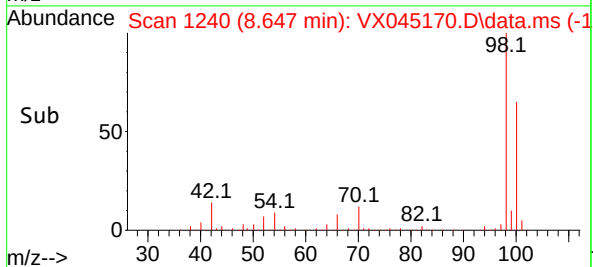
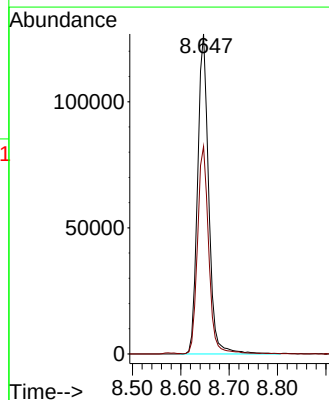
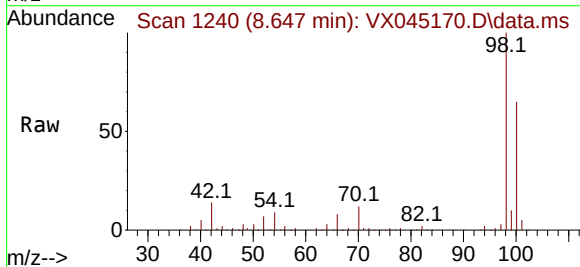
Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB01

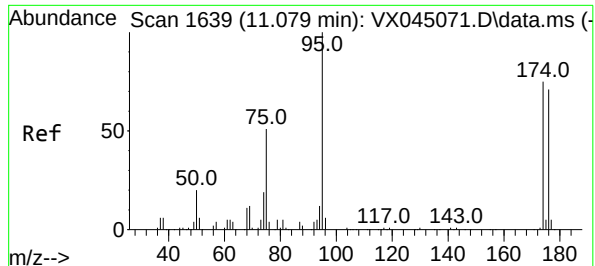
Tgt Ion:	43	Resp:	50668
Ion	Ratio	Lower	Upper
43	100		
61	17.6	14.9	22.3
87	11.3	9.4	14.2



#50
Toluene-d8
Concen: 51.761 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045170.D
Acq: 06 Mar 2025 15:52

Tgt Ion:	98	Resp:	201436
Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.0	78.0

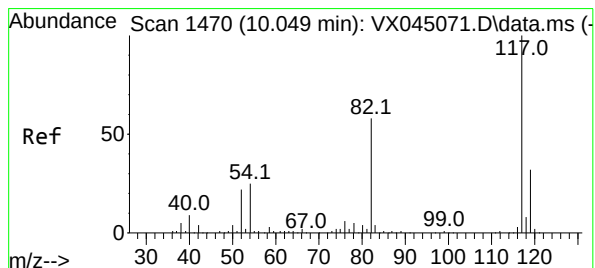
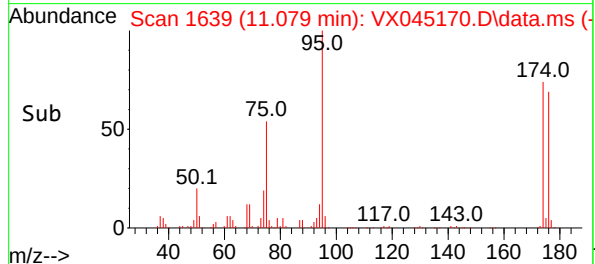
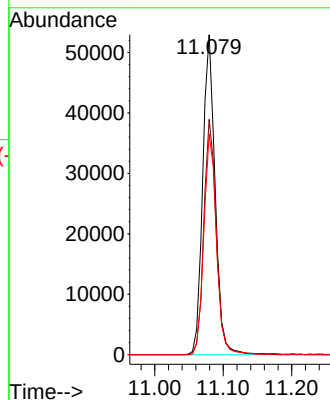
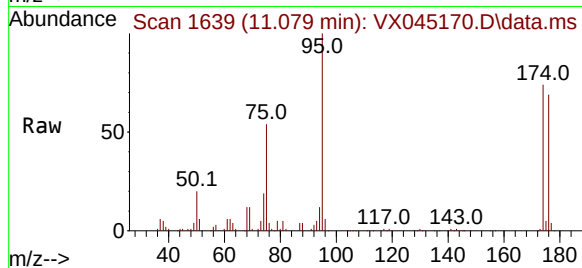




#62
4-Bromofluorobenzene
Concen: 52.029 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045170.D
Acq: 06 Mar 2025 15:52

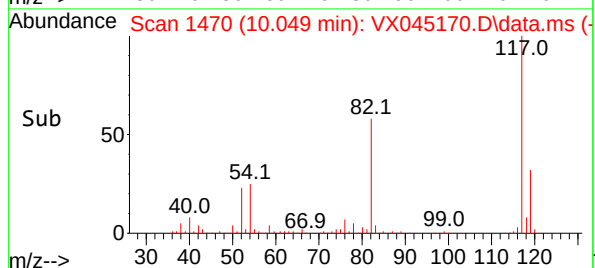
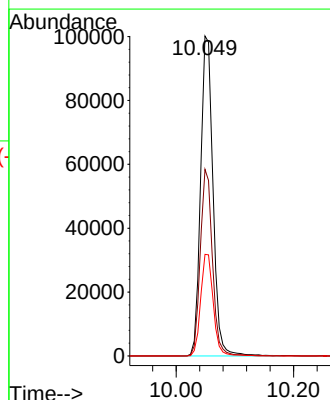
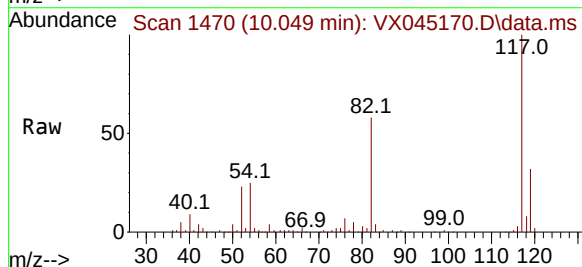
Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB01

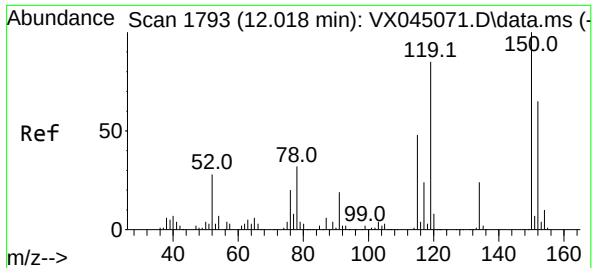
Tgt Ion: 95 Resp: 67095
Ion Ratio Lower Upper
95 100
174 73.7 0.0 148.2
176 70.0 0.0 141.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045170.D
Acq: 06 Mar 2025 15:52

Tgt Ion: 117 Resp: 146470
Ion Ratio Lower Upper
117 100
82 58.3 46.3 69.5
119 31.8 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX045170.D

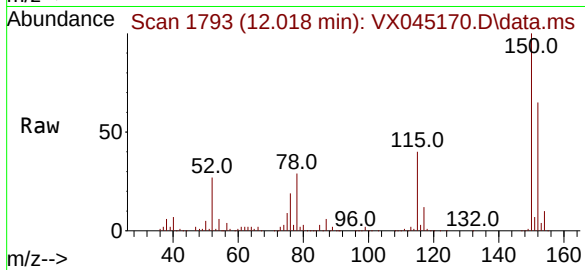
Acq: 06 Mar 2025 15:52

Instrument :

MSVOA_X

ClientSampleId :

ENV-101-SB01



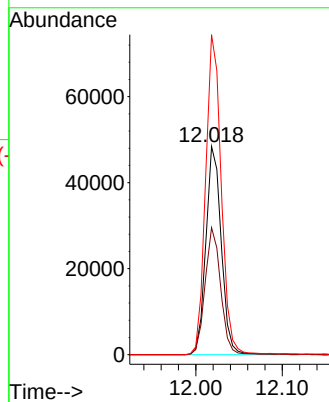
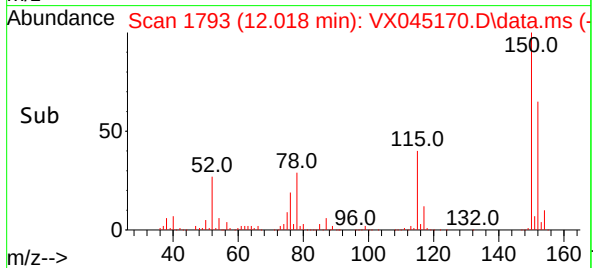
Tgt Ion:152 Resp: 59867

Ion Ratio Lower Upper

152 100

115 61.7 44.2 132.6

150 156.2 0.0 349.0



Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	03/04/25	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	03/04/25	
Client Sample ID:	ENV-101-SB02			SDG No.:	Q1488	
Lab Sample ID:	Q1488-04			Matrix:	TCLP	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	TCLP VOA	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :	SW5035					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045171.D	1		03/06/25 16:16	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	6.10	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.6		70 (74) - 130 (125)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	52.1		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	53.2		70 (86) - 130 (113)	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.6		70 (77) - 130 (121)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	76600	5.544			
540-36-3	1,4-Difluorobenzene	153000	6.757			
3114-55-4	Chlorobenzene-d5	145000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	56000	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045171.D
 Acq On : 06 Mar 2025 16:16
 Operator : JC/MD
 Sample : Q1488-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ENV-101-SB02

Quant Time: Mar 07 00:46:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

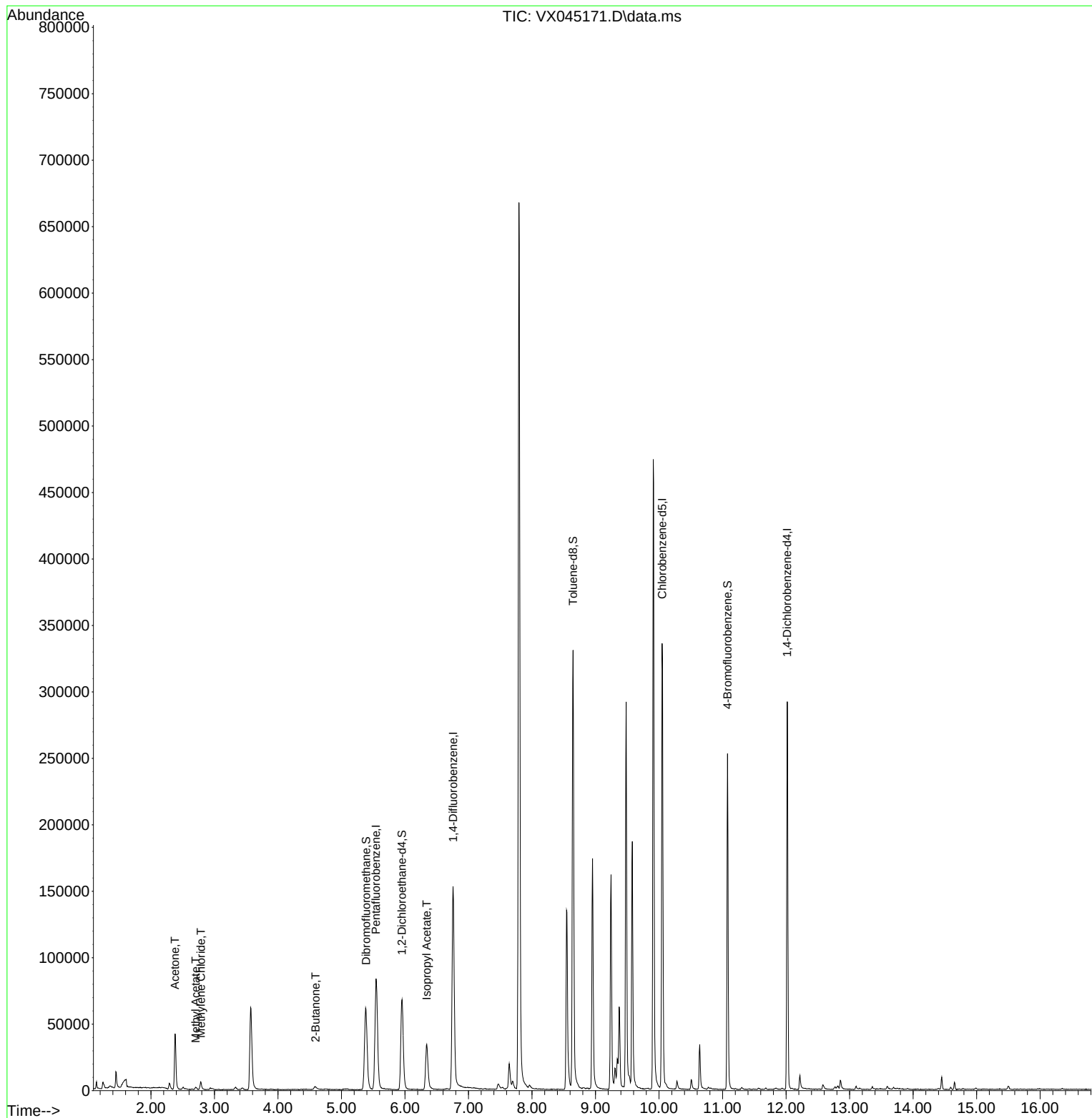
Internal Standards						
1) Pentafluorobenzene	5.544	168	76620	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	153454	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	144581	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	55987	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	66538	54.595	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.200%			
35) Dibromofluoromethane	5.385	113	53501	52.140	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.280%			
50) Toluene-d8	8.647	98	197961	53.215	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.440%			
62) 4-Bromofluorobenzene	11.079	95	64881	52.633	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.260%			
Target Compounds						Qvalue
16) Acetone	2.380	43	44531	78.751	ug/l	97
18) Methyl Acetate	2.703	43	2504	1.841	ug/l	99
20) Methylene Chloride	2.788	84	2398	2.141	ug/l	90
25) 2-Butanone	4.593	43	5173	6.078	ug/l #	88
43) Isopropyl Acetate	6.342	43	49863	18.597	ug/l	99

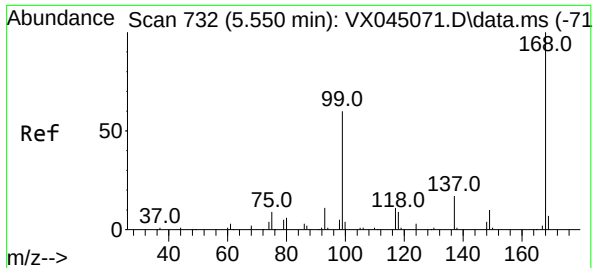
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045171.D
Acq On : 06 Mar 2025 16:16
Operator : JC/MD
Sample : Q1488-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

Quant Time: Mar 07 00:46:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

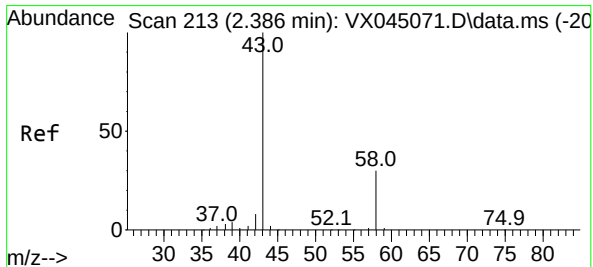
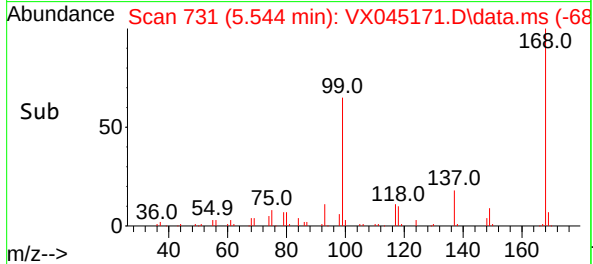
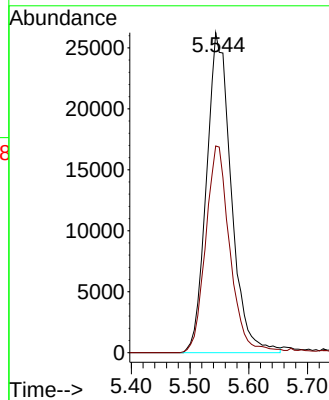
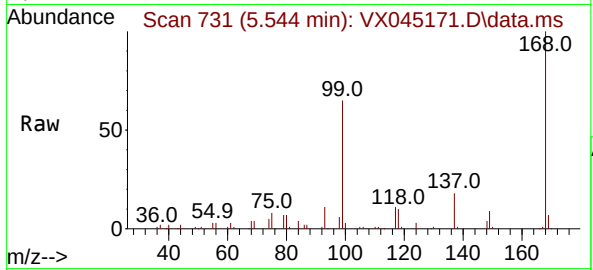




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

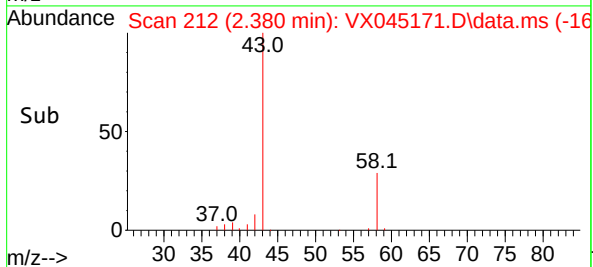
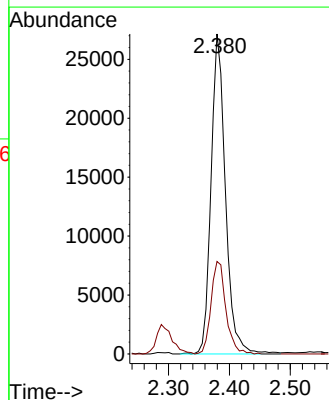
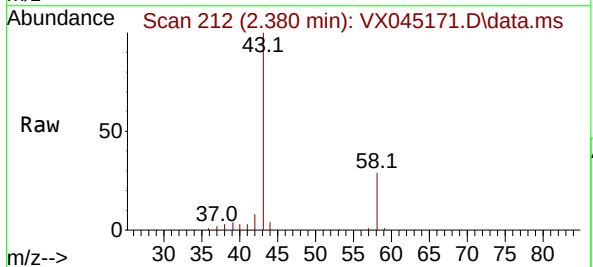
Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

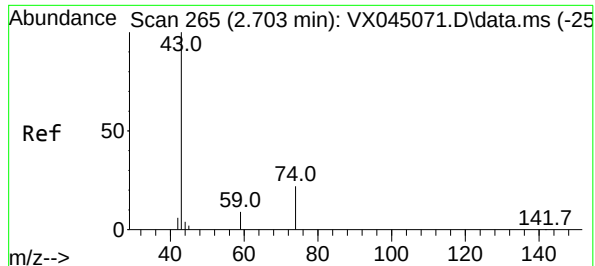
Tgt Ion:168 Resp: 76620
Ion Ratio Lower Upper
168 100
99 64.6 48.2 72.4



#16
Acetone
Concen: 78.751 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Tgt Ion: 43 Resp: 44531
Ion Ratio Lower Upper
43 100
58 28.9 24.2 36.4





#18

Methyl Acetate

Concen: 1.841 ug/l

RT: 2.703 min Scan# 2

Delta R.T. 0.000 min

Lab File: VX045171.D

Acq: 06 Mar 2025 16:16

Instrument :

MSVOA_X

ClientSampleId :

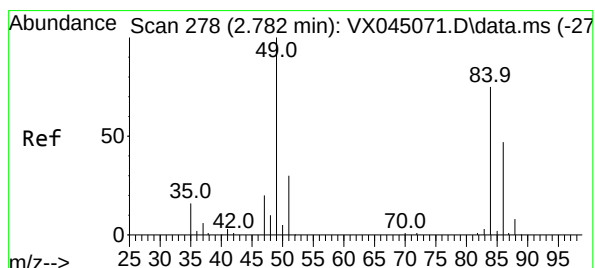
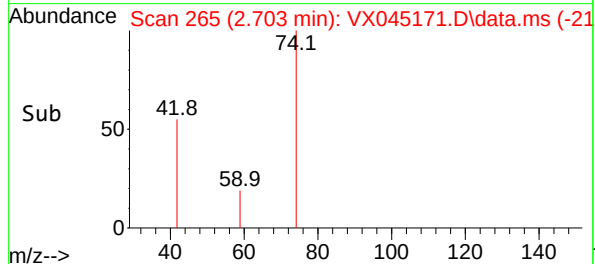
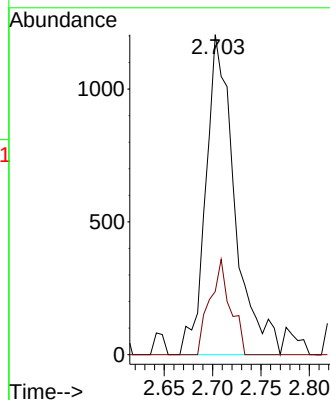
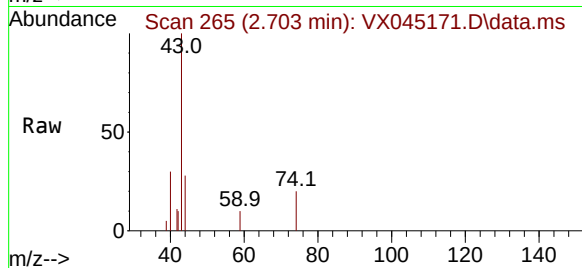
ENV-101-SB02

Tgt Ion: 43 Resp: 2504

Ion Ratio Lower Upper

43 100

74 21.2 17.4 26.2



#20

Methylene Chloride

Concen: 2.141 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.006 min

Lab File: VX045171.D

Acq: 06 Mar 2025 16:16

Tgt Ion: 84 Resp: 2398

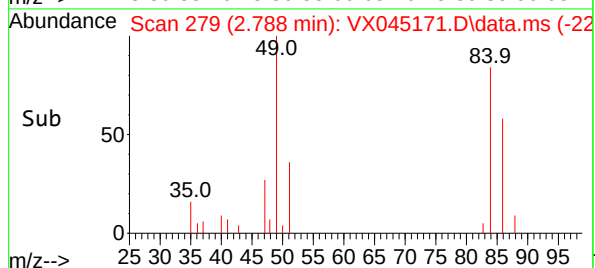
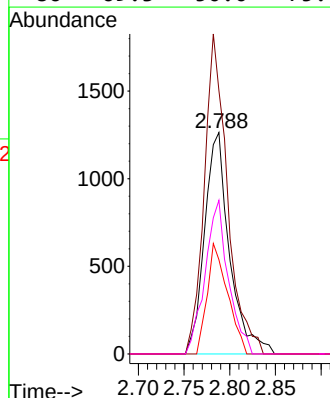
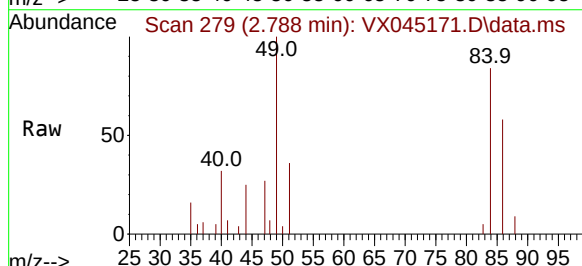
Ion Ratio Lower Upper

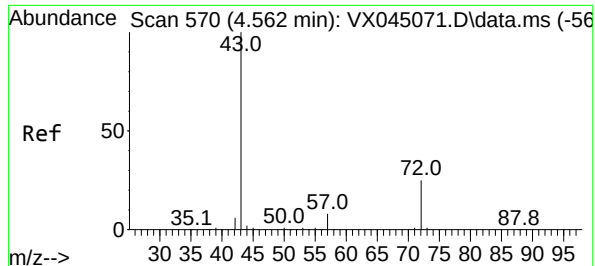
84 100

49 118.9 106.5 159.7

51 42.6 32.1 48.1

86 69.3 50.0 75.0





#25

2-Butanone

Concen: 6.078 ug/l

RT: 4.593 min Scan# 51

Delta R.T. 0.030 min

Lab File: VX045171.D

Acq: 06 Mar 2025 16:16

Instrument :

MSVOA_X

ClientSampleId :

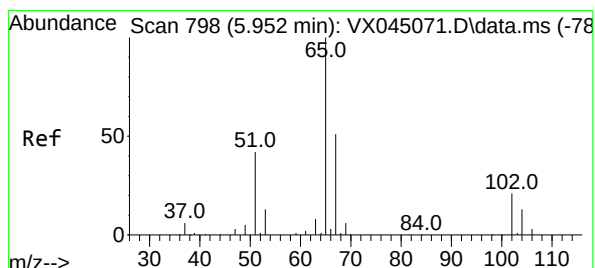
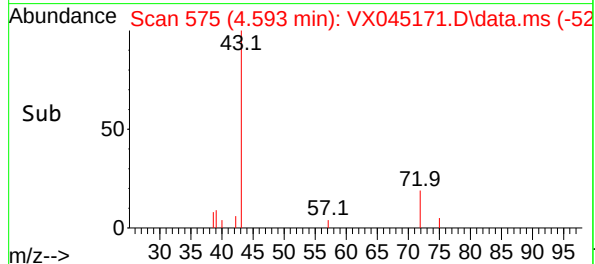
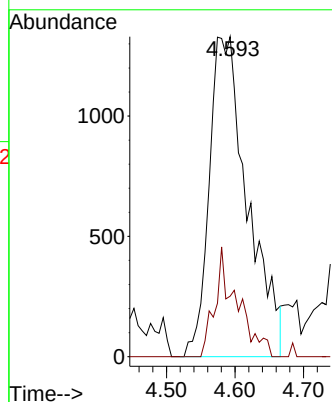
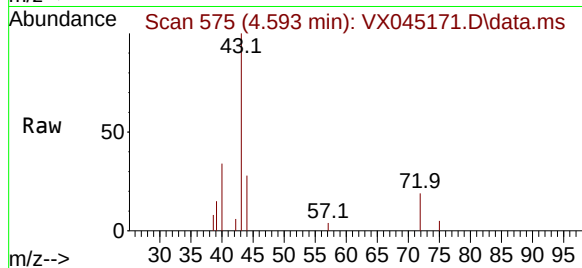
ENV-101-SB02

Tgt Ion: 43 Resp: 5173

Ion Ratio Lower Upper

43 100

72 18.9 20.0 30.0#



#33

1,2-Dichloroethane-d4

Concen: 54.595 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045171.D

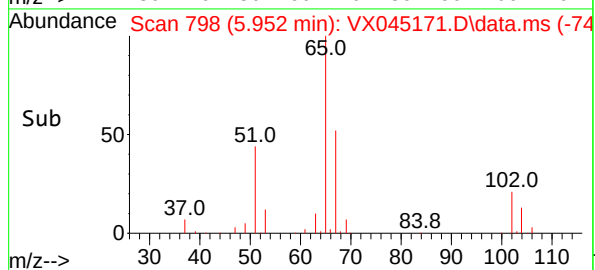
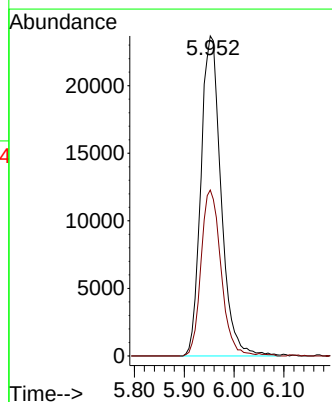
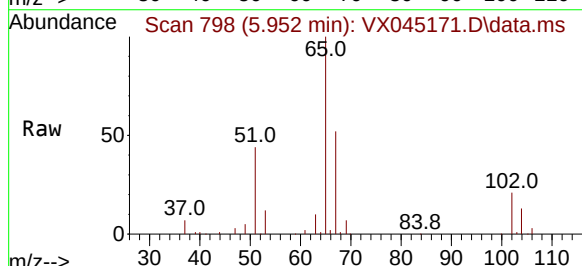
Acq: 06 Mar 2025 16:16

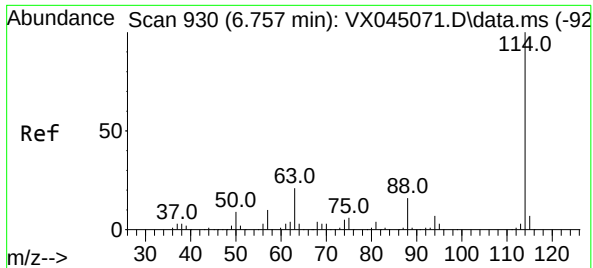
Tgt Ion: 65 Resp: 66538

Ion Ratio Lower Upper

65 100

67 51.2 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX045171.D

Acq: 06 Mar 2025 16:16

Instrument :

MSVOA_X

ClientSampleId :

ENV-101-SB02

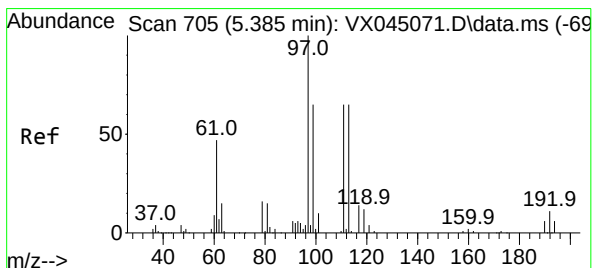
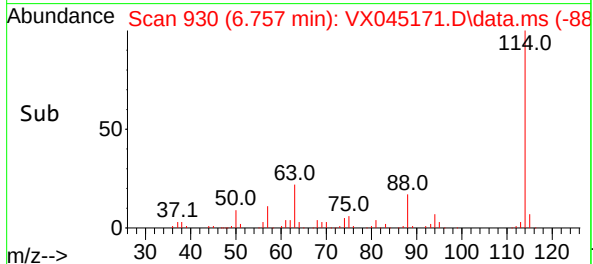
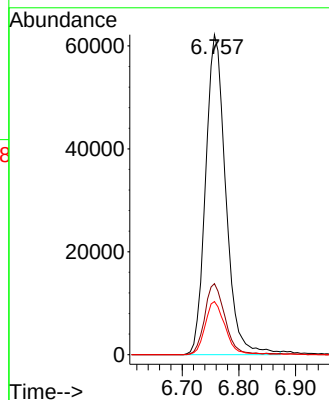
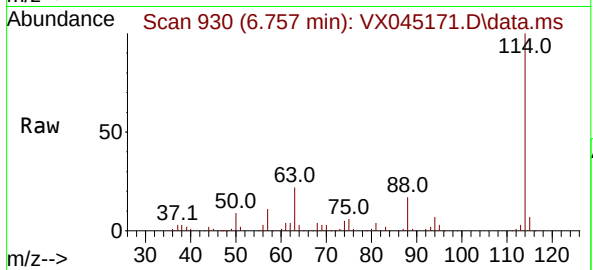
Tgt Ion:114 Resp: 153454

Ion Ratio Lower Upper

114 100

63 22.2 0.0 41.8

88 16.6 0.0 32.8



#35

Dibromofluoromethane

Concen: 52.140 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX045171.D

Acq: 06 Mar 2025 16:16

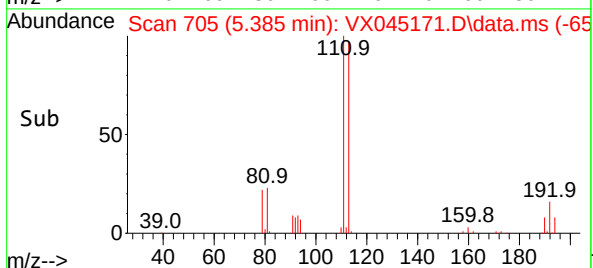
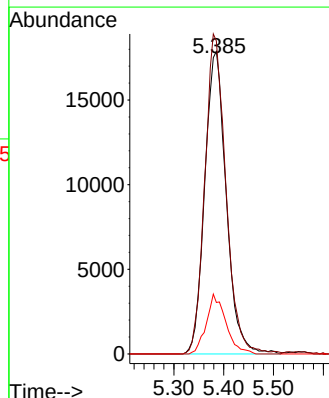
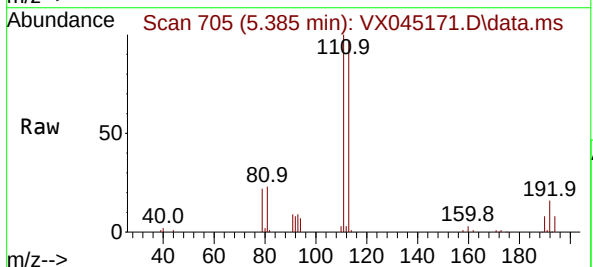
Tgt Ion:113 Resp: 53501

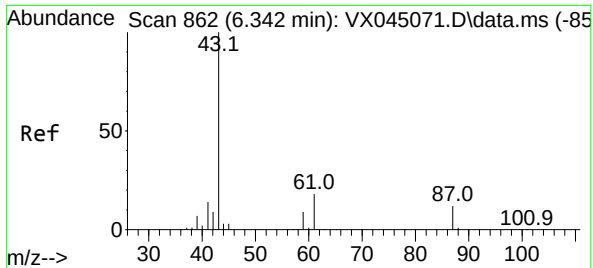
Ion Ratio Lower Upper

113 100

111 103.6 81.8 122.6

192 18.0 14.3 21.5

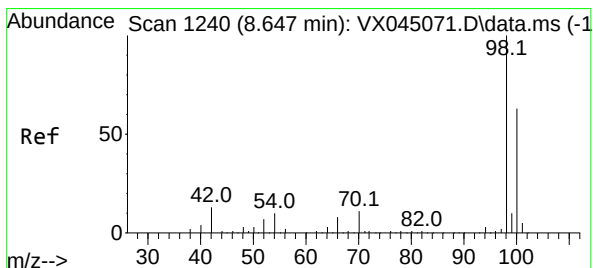
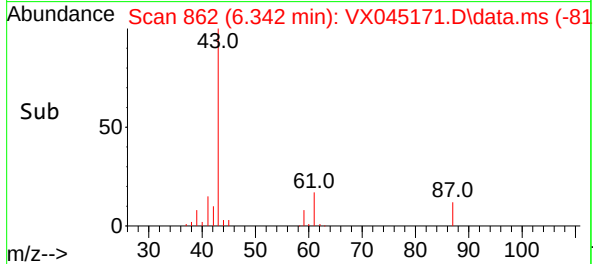
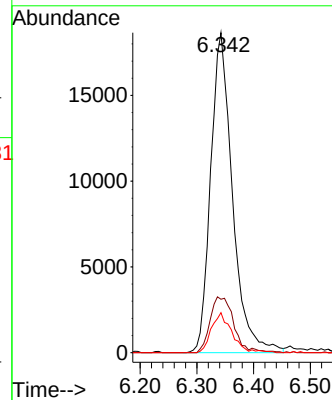
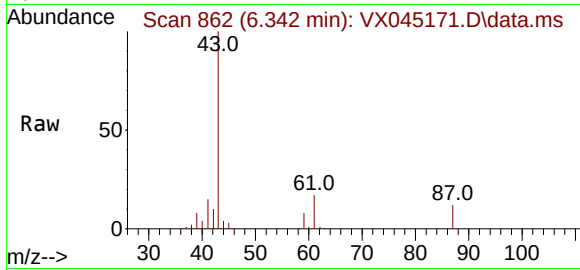




#43
Isopropyl Acetate
Concen: 18.597 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.000 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

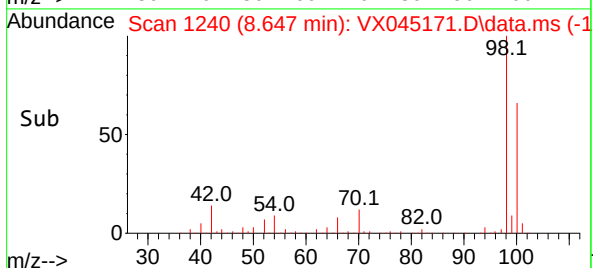
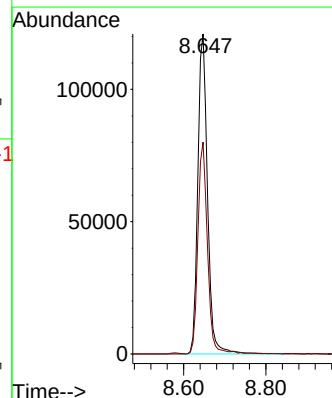
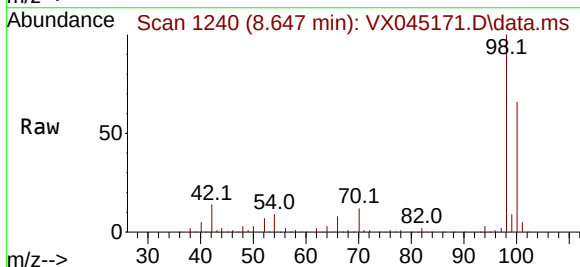
Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

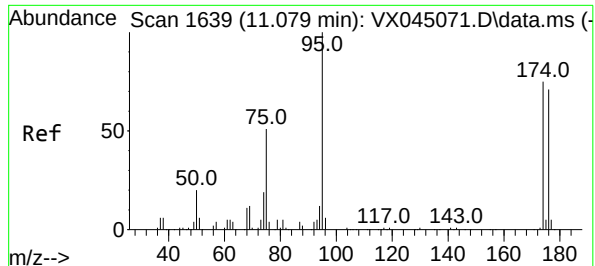
Tgt Ion:	43	Resp:	49863
Ion	Ratio	Lower	Upper
43	100		
61	18.9	14.9	22.3
87	11.8	9.4	14.2



#50
Toluene-d8
Concen: 53.215 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Tgt Ion:	98	Resp:	197961
Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.0	78.0

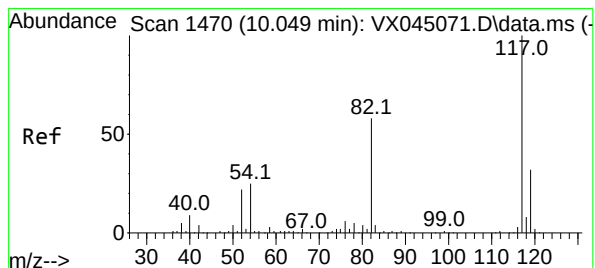
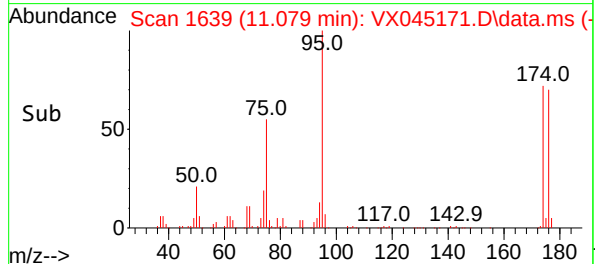
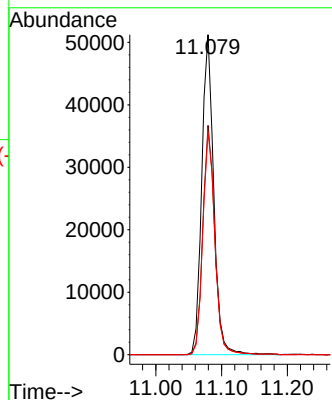
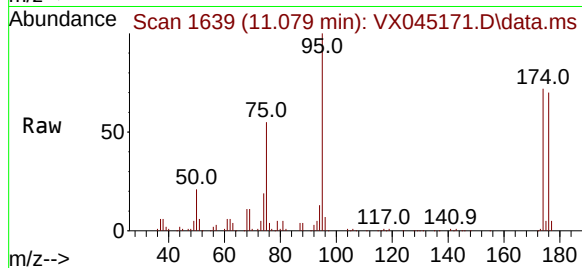




#62
4-Bromofluorobenzene
Concen: 52.633 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

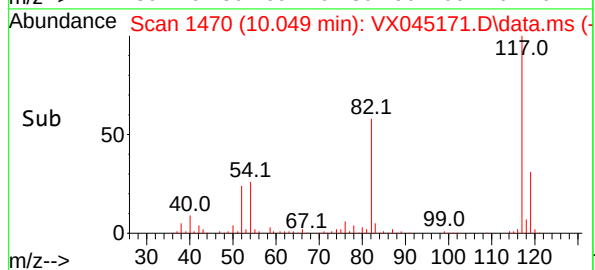
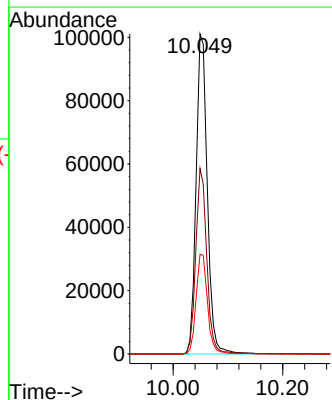
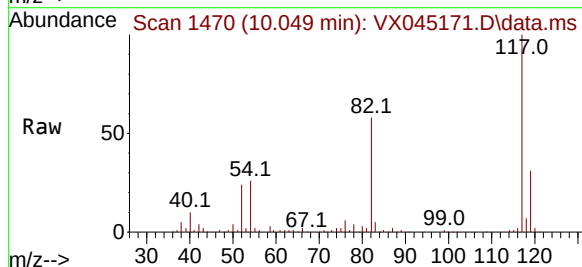
Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

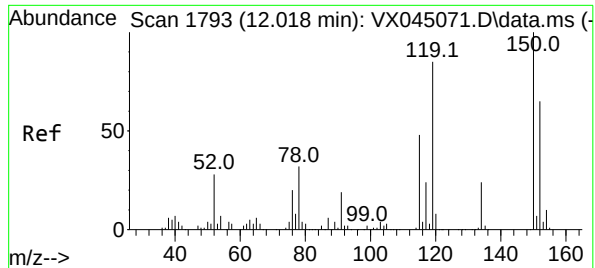
Tgt Ion: 95 Resp: 64881
Ion Ratio Lower Upper
95 100
174 71.7 0.0 148.2
176 70.0 0.0 141.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Tgt Ion: 117 Resp: 144581
Ion Ratio Lower Upper
117 100
82 57.9 46.3 69.5
119 31.2 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX045171.D

Acq: 06 Mar 2025 16:16

Instrument :

MSVOA_X

ClientSampleId :

ENV-101-SB02

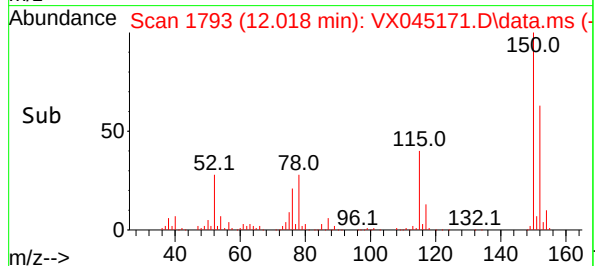
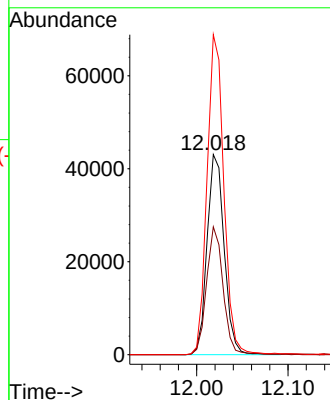
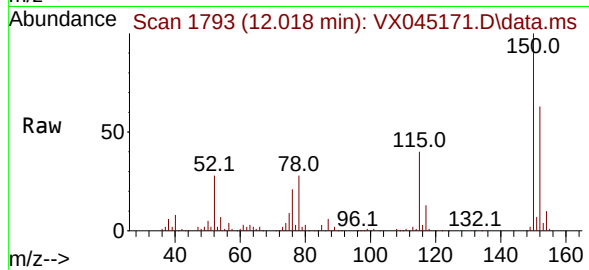
Tgt Ion:152 Resp: 55987

Ion Ratio Lower Upper

152 100

115 61.4 44.2 132.6

150 156.3 0.0 349.0



Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	03/04/25	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	03/04/25	
Client Sample ID:	ENV-102-SB01			SDG No.:	Q1488	
Lab Sample ID:	Q1488-06			Matrix:	TCLP	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	TCLP VOA	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :	SW5035					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045172.D	1		03/06/25 16:39	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	6.20	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.8		70 (74) - 130 (125)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	51.5		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	51.1		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.2		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	84600	5.55			
540-36-3	1,4-Difluorobenzene	168000	6.757			
3114-55-4	Chlorobenzene-d5	153000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	63000	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045172.D
 Acq On : 06 Mar 2025 16:39
 Operator : JC/MD
 Sample : Q1488-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ENV-102-SB01

Quant Time: Mar 07 00:46:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

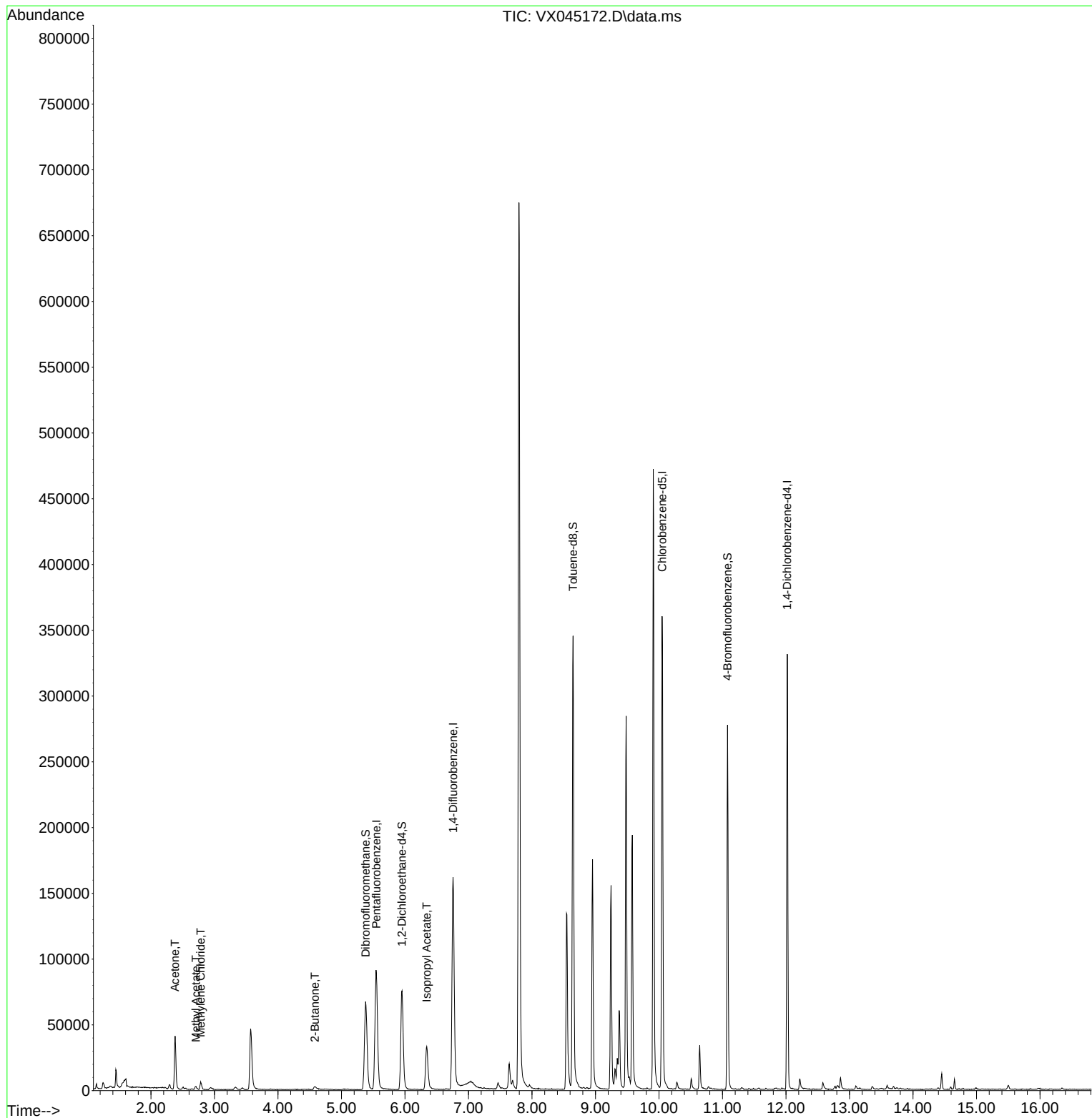
Internal Standards						
1) Pentafluorobenzene	5.550	168	84608	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	167928	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	153445	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	63036	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	72361	53.767	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.540%			
35) Dibromofluoromethane	5.379	113	57808	51.481	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.960%			
50) Toluene-d8	8.647	98	208160	51.134	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.260%			
62) 4-Bromofluorobenzene	11.079	95	70449	52.225	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.440%			
Target Compounds					Qvalue	
16) Acetone	2.380	43	43675	69.945	ug/l	99
18) Methyl Acetate	2.709	43	3472	2.311	ug/l	99
20) Methylene Chloride	2.782	84	2563	2.072	ug/l #	90
25) 2-Butanone	4.581	43	5867	6.242	ug/l	93
43) Isopropyl Acetate	6.342	43	49551	16.887	ug/l	98

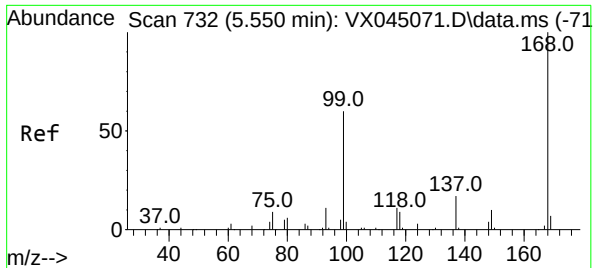
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045172.D
Acq On : 06 Mar 2025 16:39
Operator : JC/MD
Sample : Q1488-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB01

Quant Time: Mar 07 00:46:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

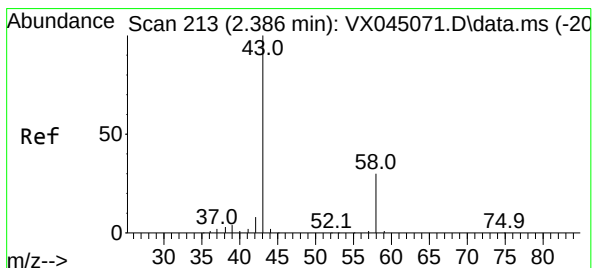
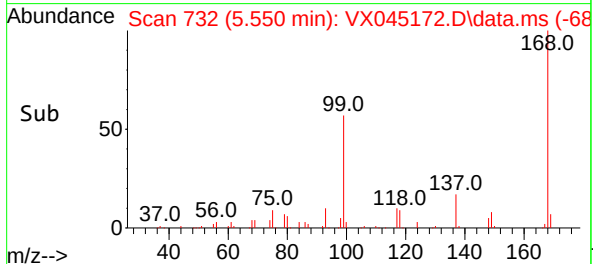
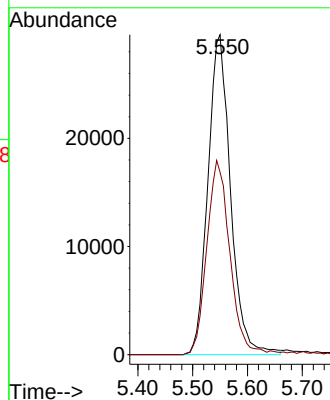
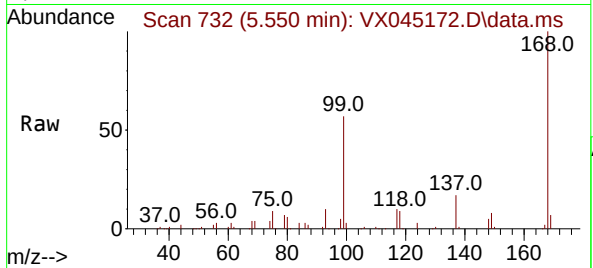




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

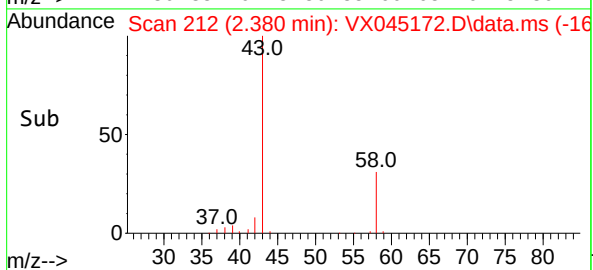
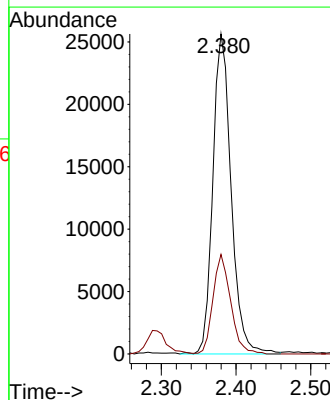
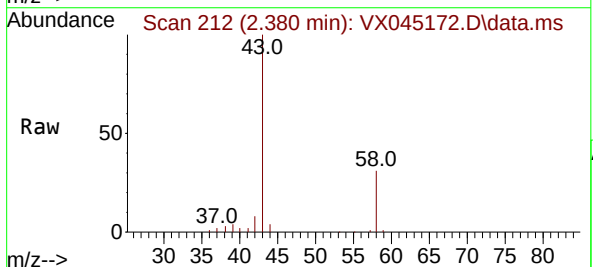
Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB01

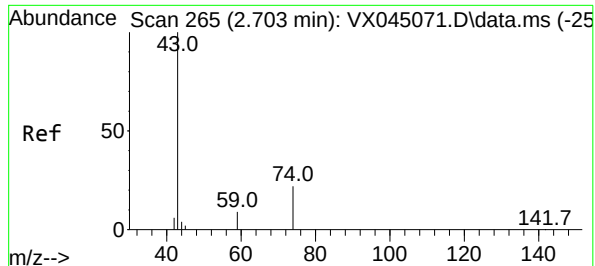
Tgt Ion:168 Resp: 84608
Ion Ratio Lower Upper
168 100
99 57.0 48.2 72.4



#16
Acetone
Concen: 69.945 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

Tgt Ion: 43 Resp: 43675
Ion Ratio Lower Upper
43 100
58 31.1 24.2 36.4





#18

Methyl Acetate

Concen: 2.311 ug/l

RT: 2.709 min Scan# 2

Delta R.T. 0.006 min

Lab File: VX045172.D

Acq: 06 Mar 2025 16:39

Instrument :

MSVOA_X

ClientSampleId :

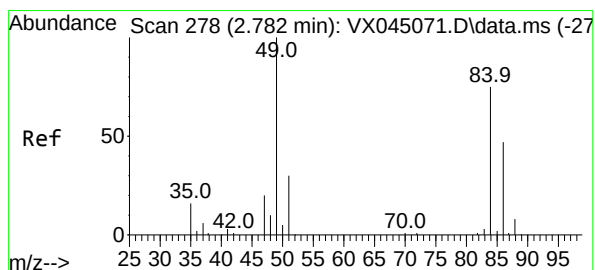
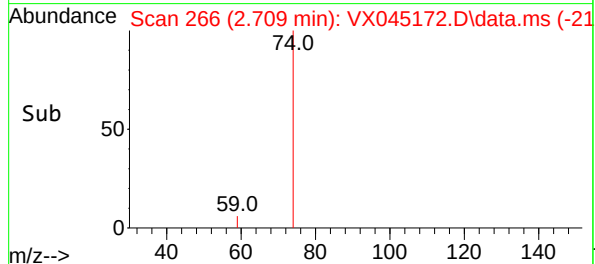
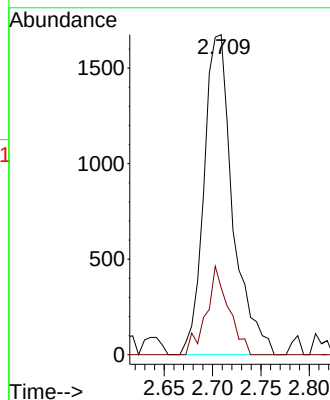
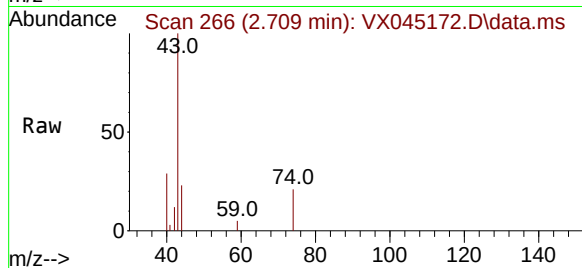
ENV-102-SB01

Tgt Ion: 43 Resp: 3472

Ion Ratio Lower Upper

43 100

74 21.5 17.4 26.2



#20

Methylene Chloride

Concen: 2.072 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX045172.D

Acq: 06 Mar 2025 16:39

Tgt Ion: 84 Resp: 2563

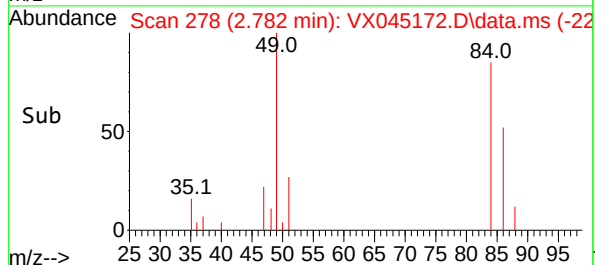
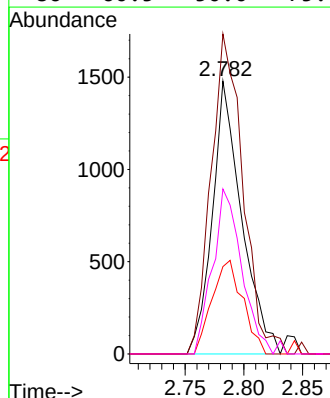
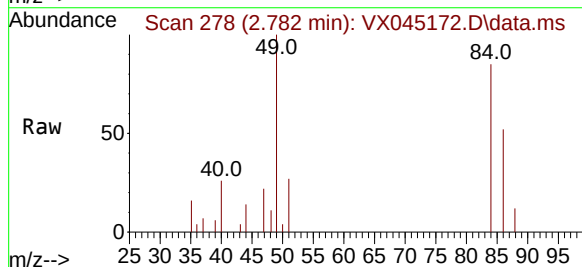
Ion Ratio Lower Upper

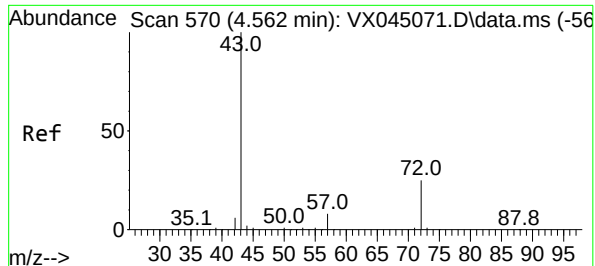
84 100

49 117.3 106.5 159.7

51 32.0 32.1 48.1#

86 60.5 50.0 75.0





#25

2-Butanone

Concen: 6.242 ug/l

RT: 4.581 min Scan# 51

Delta R.T. 0.018 min

Lab File: VX045172.D

Acq: 06 Mar 2025 16:39

Instrument :

MSVOA_X

ClientSampleId :

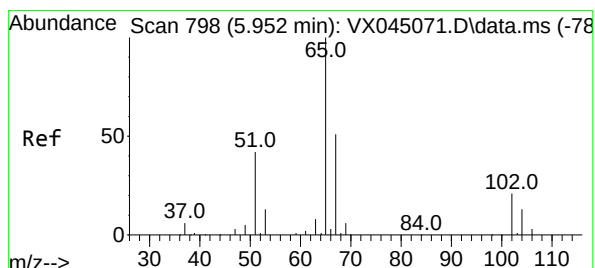
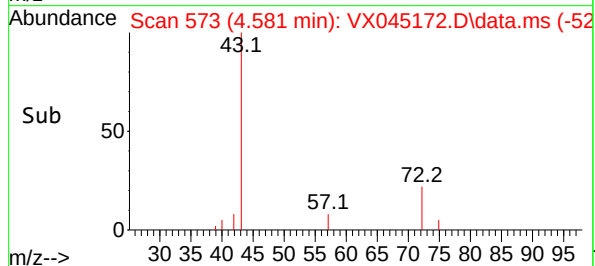
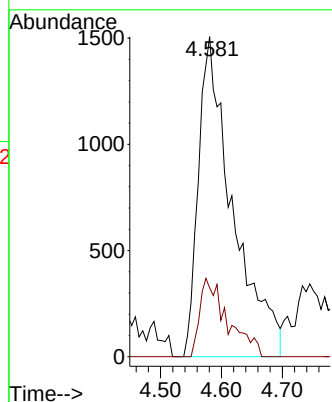
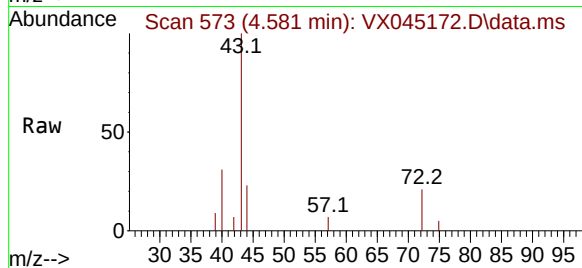
ENV-102-SB01

Tgt Ion: 43 Resp: 5867

Ion Ratio Lower Upper

43 100

72 21.5 20.0 30.0



#33

1,2-Dichloroethane-d4

Concen: 53.767 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045172.D

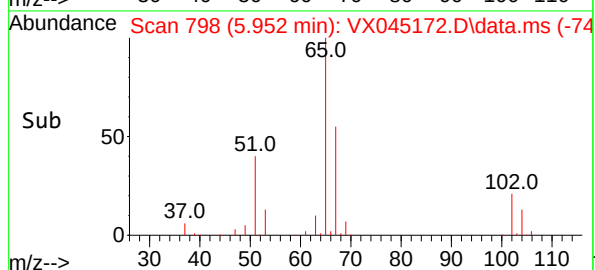
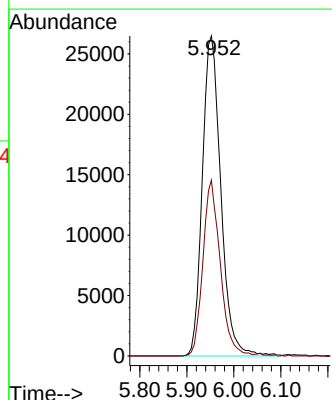
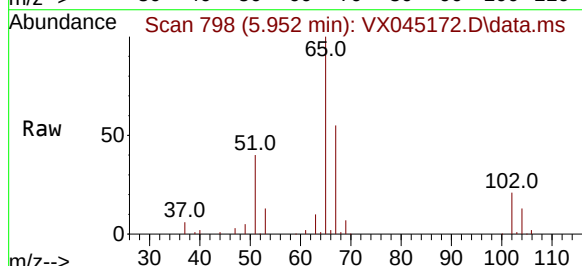
Acq: 06 Mar 2025 16:39

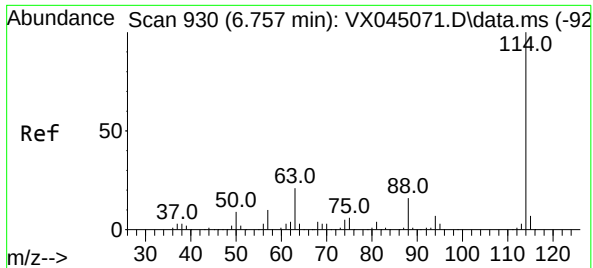
Tgt Ion: 65 Resp: 72361

Ion Ratio Lower Upper

65 100

67 51.5 0.0 106.2

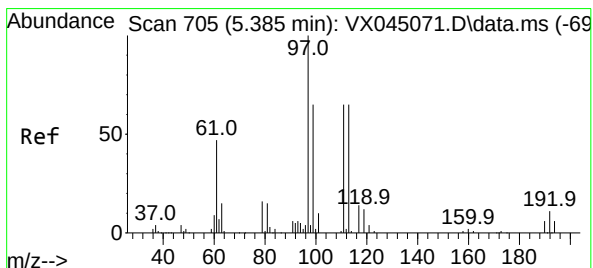
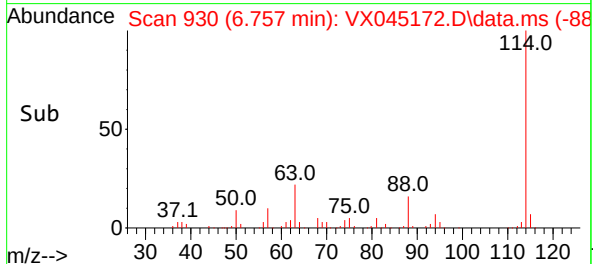
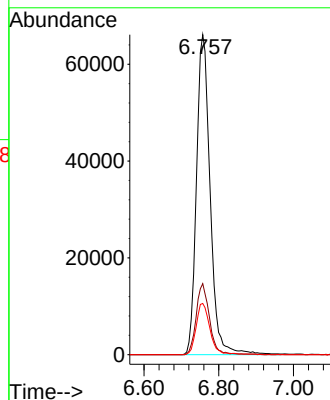
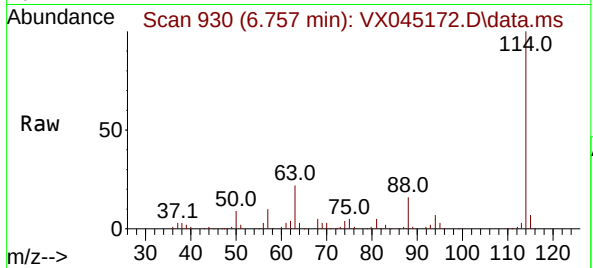




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

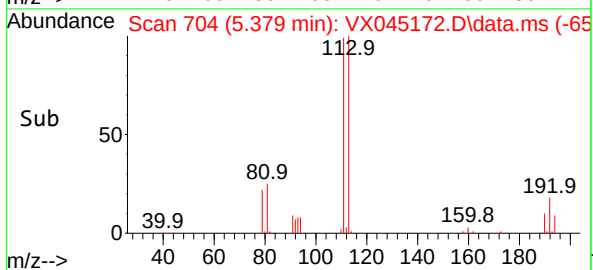
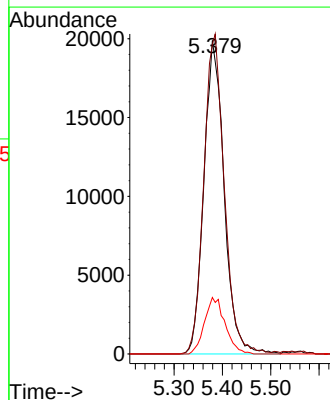
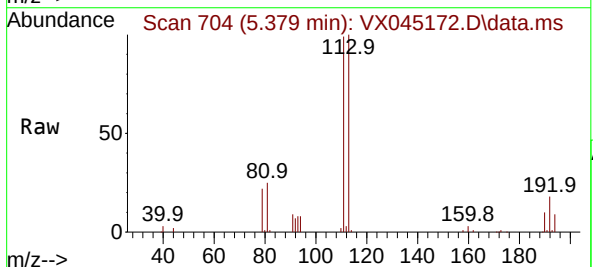
Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB01

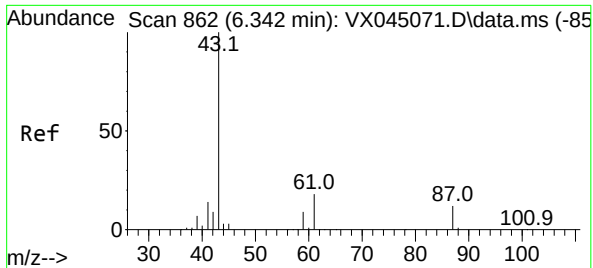
Tgt Ion:114 Resp: 167928
Ion Ratio Lower Upper
114 100
63 22.2 0.0 41.8
88 16.0 0.0 32.8



#35
Dibromofluoromethane
Concen: 51.481 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

Tgt Ion:113 Resp: 57808
Ion Ratio Lower Upper
113 100
111 103.2 81.8 122.6
192 18.3 14.3 21.5

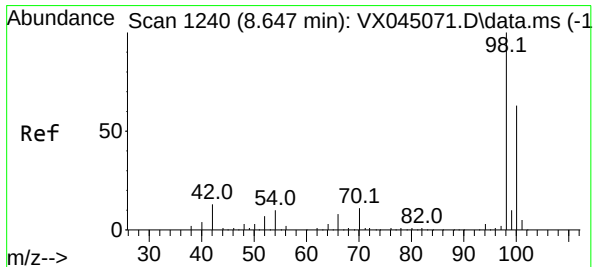
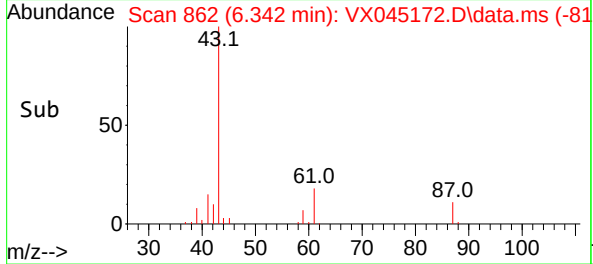
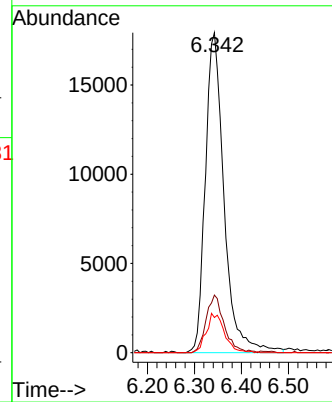
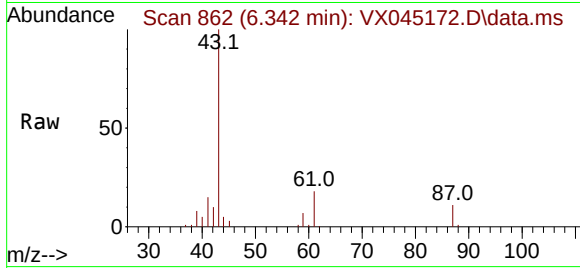




#43
Isopropyl Acetate
Concen: 16.887 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.000 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

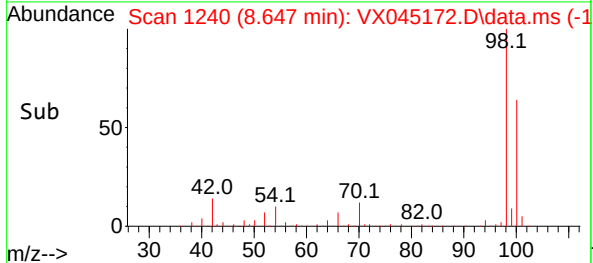
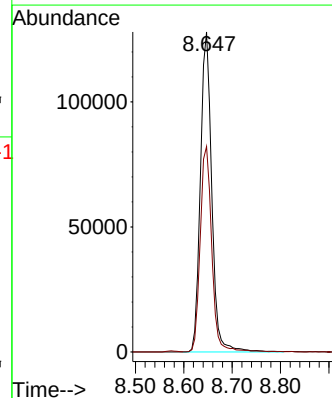
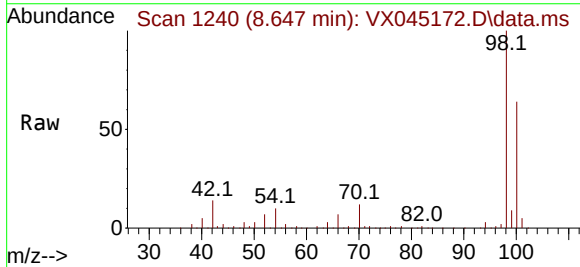
Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB01

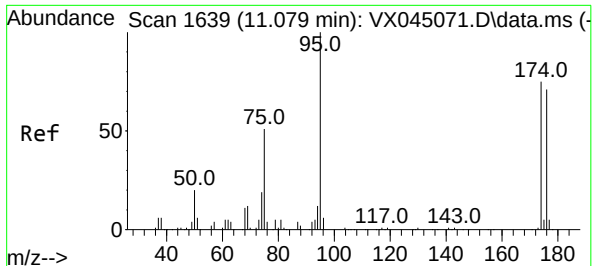
Tgt Ion:	43	Resp:	49551
Ion	Ratio	Lower	Upper
43	100		
61	17.4	14.9	22.3
87	11.9	9.4	14.2



#50
Toluene-d8
Concen: 51.134 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

Tgt Ion:	98	Resp:	208160
Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.0	78.0





#62

4-Bromofluorobenzene

Concen: 52.225 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX045172.D

Acq: 06 Mar 2025 16:39

Instrument :

MSVOA_X

ClientSampleId :

ENV-102-SB01

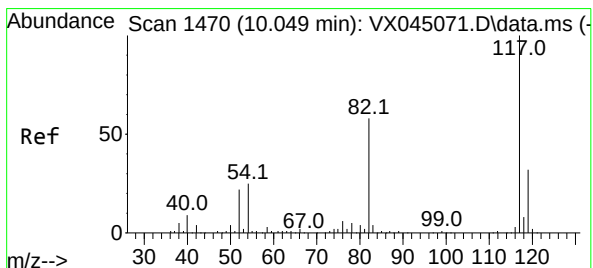
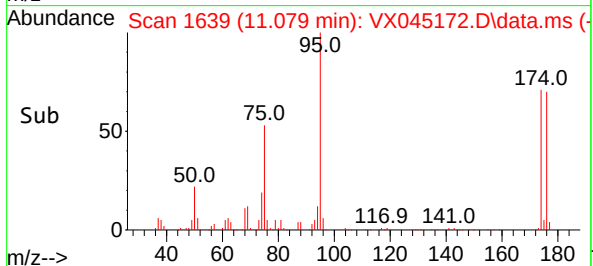
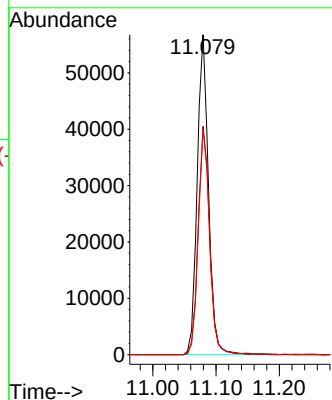
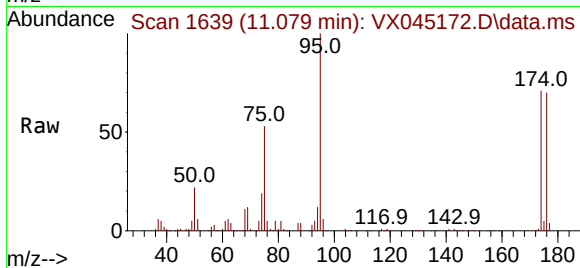
Tgt Ion: 95 Resp: 70449

Ion Ratio Lower Upper

95 100

174 73.7 0.0 148.2

176 70.5 0.0 141.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX045172.D

Acq: 06 Mar 2025 16:39

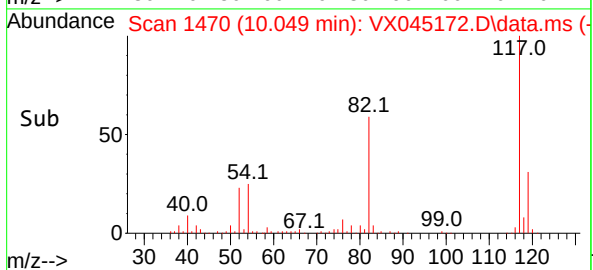
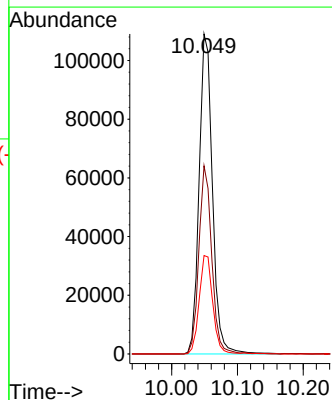
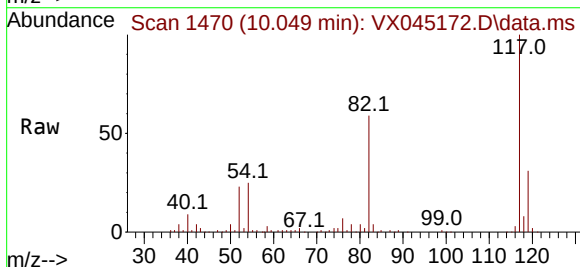
Tgt Ion: 117 Resp: 153445

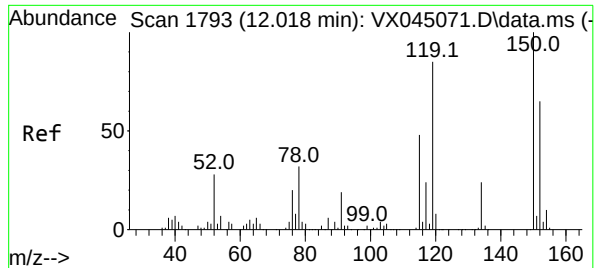
Ion Ratio Lower Upper

117 100

82 58.8 46.3 69.5

119 30.7 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX045172.D

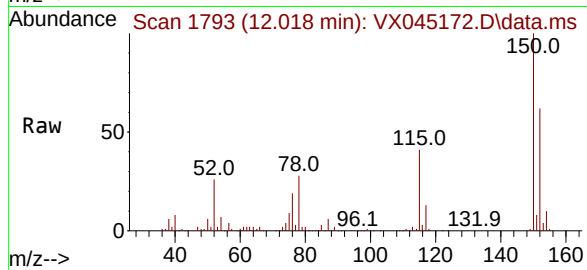
Acq: 06 Mar 2025 16:39

Instrument :

MSVOA_X

ClientSampleId :

ENV-102-SB01



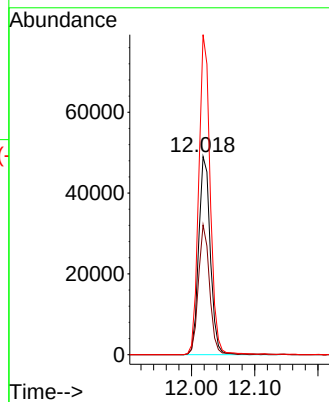
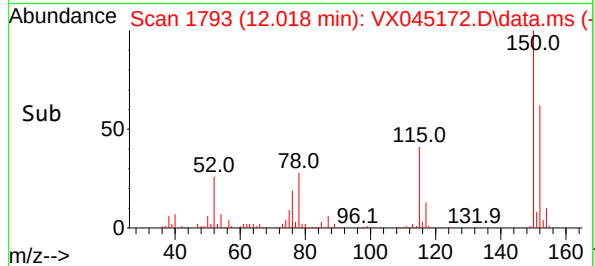
Tgt Ion:152 Resp: 63036

Ion Ratio Lower Upper

152 100

115 62.8 44.2 132.6

150 158.2 0.0 349.0



Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	03/04/25	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	03/04/25	
Client Sample ID:	ENV-102-SB02			SDG No.:	Q1488	
Lab Sample ID:	Q1488-08			Matrix:	TCLP	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	TCLP VOA	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :	SW5035					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045173.D	1		03/06/25 17:02	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	5.70	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.5		70 (74) - 130 (125)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	50.8		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.8		70 (77) - 130 (121)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	76600	5.544			
540-36-3	1,4-Difluorobenzene	156000	6.757			
3114-55-4	Chlorobenzene-d5	140000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	57300	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045173.D
 Acq On : 06 Mar 2025 17:02
 Operator : JC/MD
 Sample : Q1488-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ENV-102-SB02

Quant Time: Mar 07 00:47:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

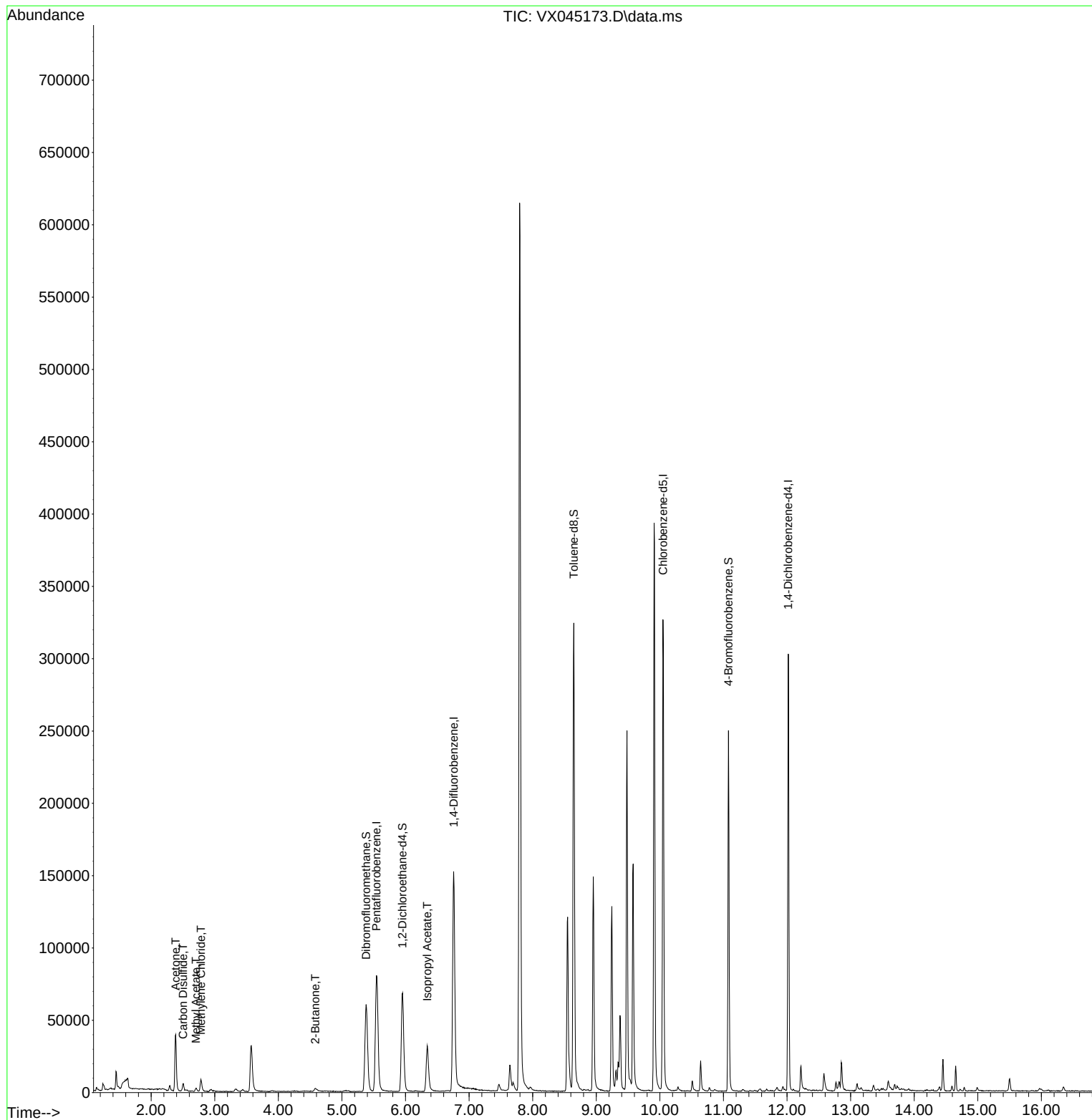
Internal Standards						
1) Pentafluorobenzene	5.544	168	76581	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	156077	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	139915	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	57260	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	65182	53.510	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.020%			
35) Dibromofluoromethane	5.379	113	53310	51.081	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.160%			
50) Toluene-d8	8.647	98	192112	50.775	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.560%			
62) 4-Bromofluorobenzene	11.079	95	63691	50.800	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.600%			
Target Compounds						
16) Acetone	2.386	43	43224	76.479	ug/l	98
17) Carbon Disulfide	2.502	76	7102	2.834	ug/l	96
18) Methyl Acetate	2.703	43	2846	2.093	ug/l	93
20) Methylene Chloride	2.782	84	3846	3.435	ug/l #	89
25) 2-Butanone	4.581	43	4831	5.679	ug/l	99
43) Isopropyl Acetate	6.342	43	45924	16.840	ug/l	99

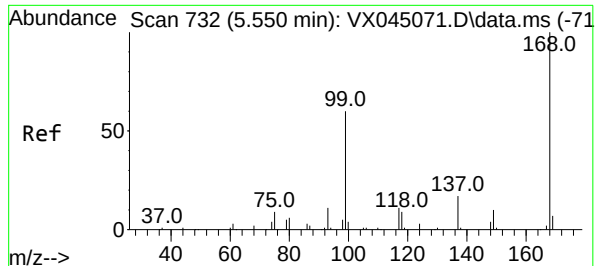
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045173.D
Acq On : 06 Mar 2025 17:02
Operator : JC/MD
Sample : Q1488-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB02

Quant Time: Mar 07 00:47:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

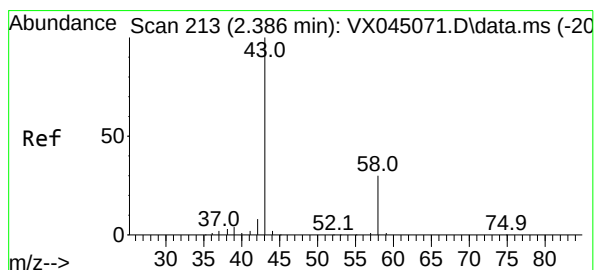
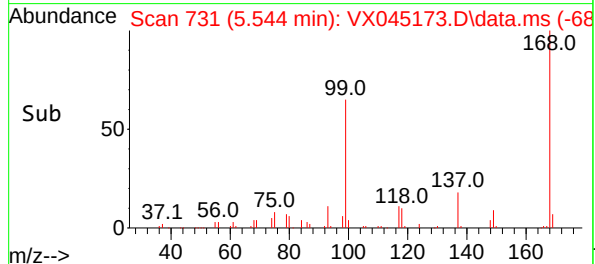
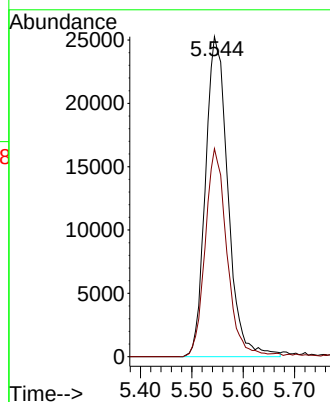
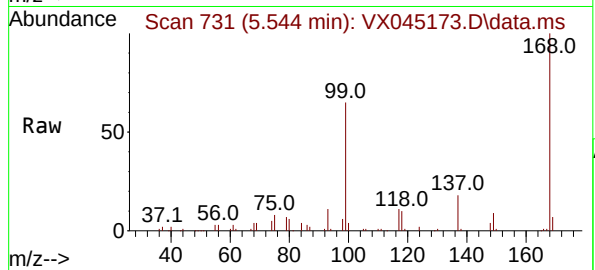




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045173.D
Acq: 06 Mar 2025 17:02

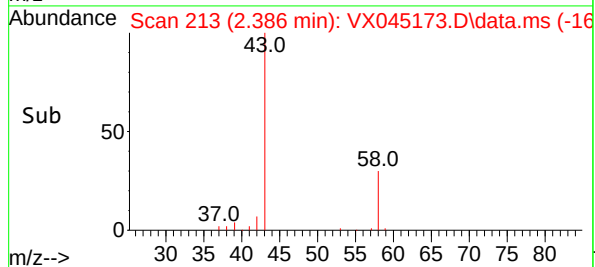
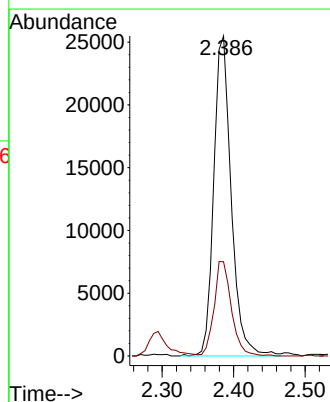
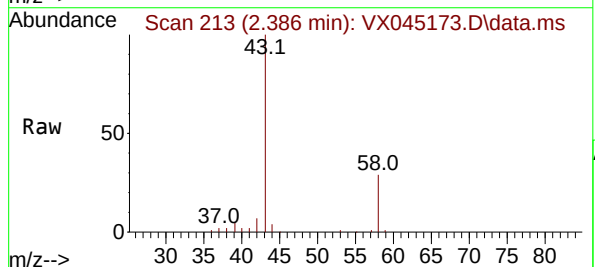
Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB02

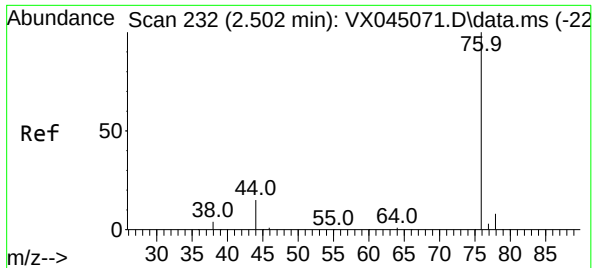
Tgt Ion:168 Resp: 76581
Ion Ratio Lower Upper
168 100
99 65.0 48.2 72.4



#16
Acetone
Concen: 76.479 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX045173.D
Acq: 06 Mar 2025 17:02

Tgt Ion: 43 Resp: 43224
Ion Ratio Lower Upper
43 100
58 29.5 24.2 36.4





#17

Carbon Disulfide

Concen: 2.834 ug/l

RT: 2.502 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX045173.D

Acq: 06 Mar 2025 17:02

Instrument :

MSVOA_X

ClientSampleId :

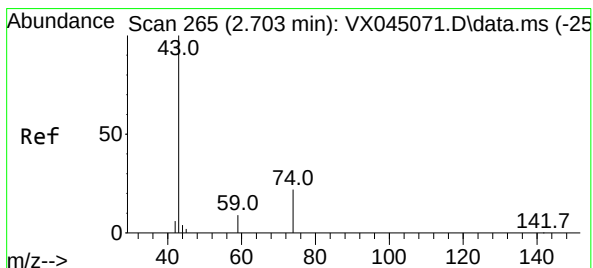
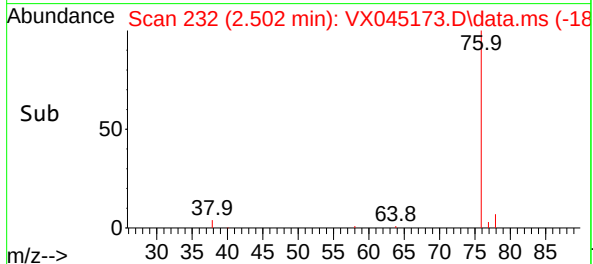
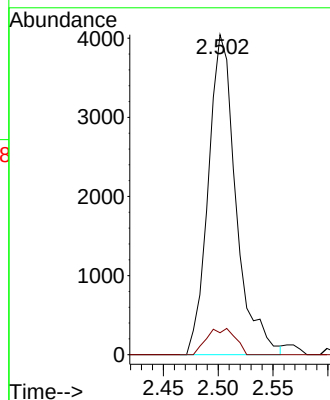
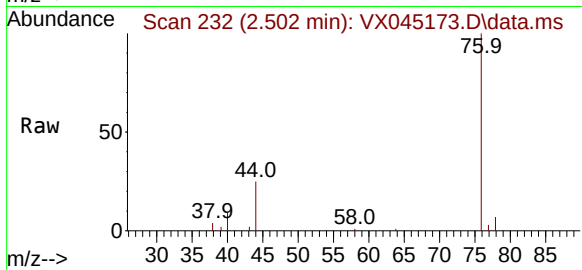
ENV-102-SB02

Tgt Ion: 76 Resp: 7102

Ion Ratio Lower Upper

76 100

78 6.8 6.6 9.8



#18

Methyl Acetate

Concen: 2.093 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX045173.D

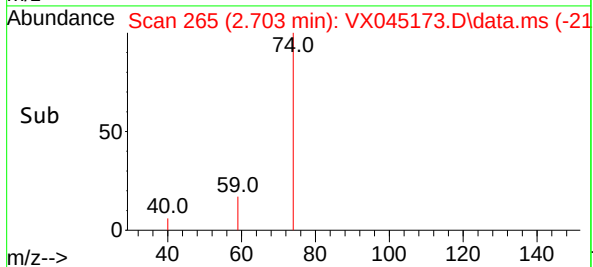
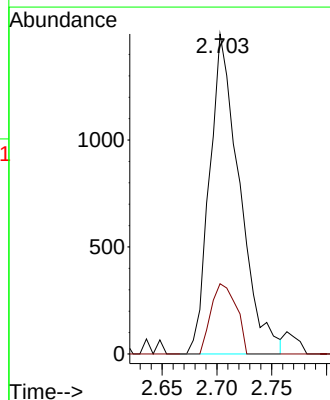
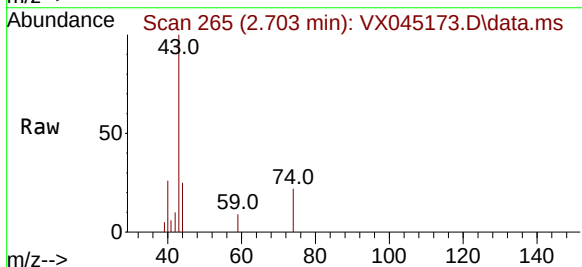
Acq: 06 Mar 2025 17:02

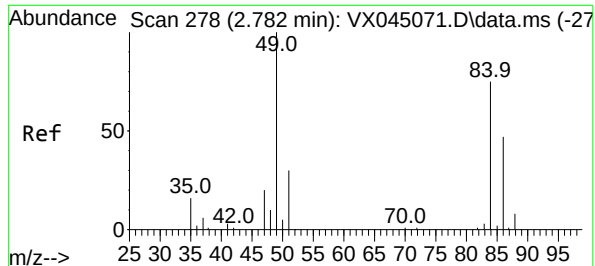
Tgt Ion: 43 Resp: 2846

Ion Ratio Lower Upper

43 100

74 18.4 17.4 26.2





#20

Methylene Chloride

Concen: 3.435 ug/l

RT: 2.782 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX045173.D

Acq: 06 Mar 2025 17:02

Instrument :

MSVOA_X

ClientSampleId :

ENV-102-SB02

Tgt Ion: 84 Resp: 3846

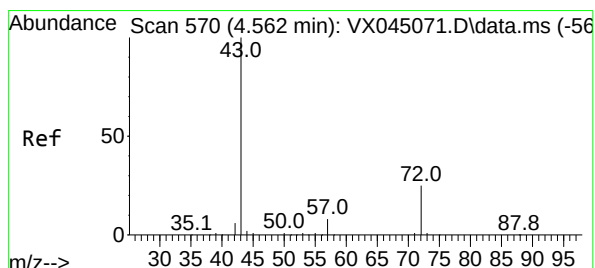
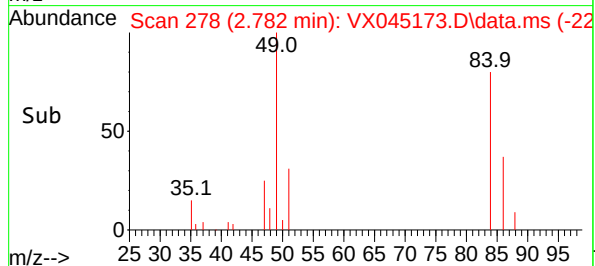
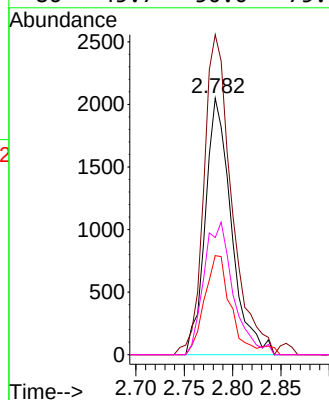
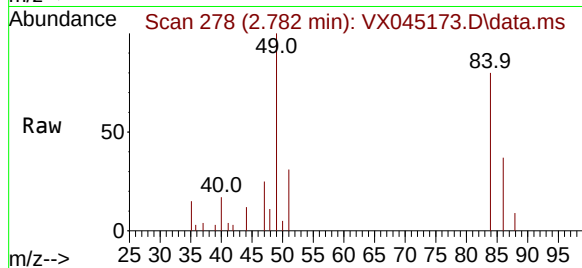
Ion Ratio Lower Upper

84 100

49 122.0 106.5 159.7

51 38.6 32.1 48.1

86 45.7 50.0 75.0#



#25

2-Butanone

Concen: 5.679 ug/l

RT: 4.581 min Scan# 573

Delta R.T. 0.018 min

Lab File: VX045173.D

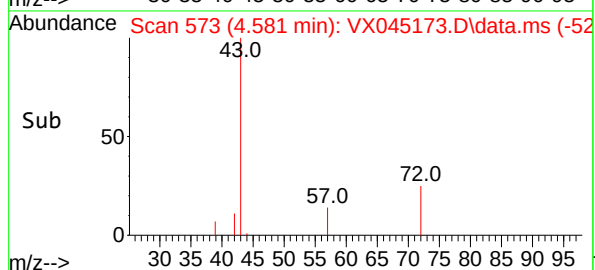
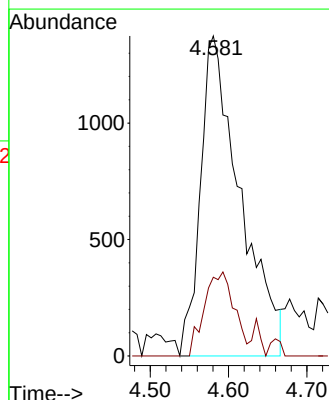
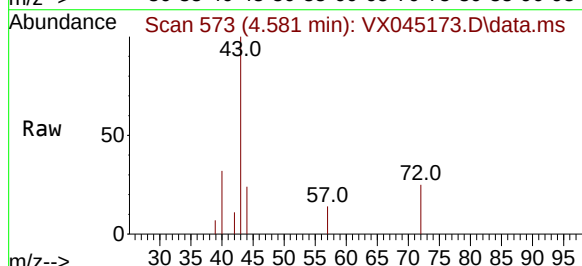
Acq: 06 Mar 2025 17:02

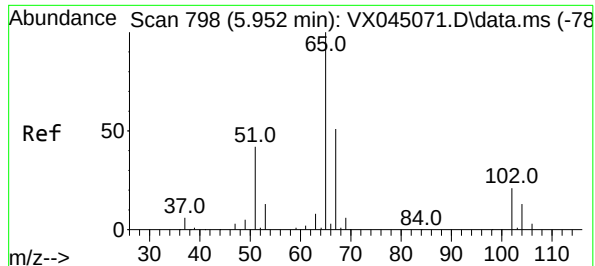
Tgt Ion: 43 Resp: 4831

Ion Ratio Lower Upper

43 100

72 24.6 20.0 30.0





#33

1,2-Dichloroethane-d4

Concen: 53.510 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045173.D

Acq: 06 Mar 2025 17:02

Instrument :

MSVOA_X

ClientSampleId :

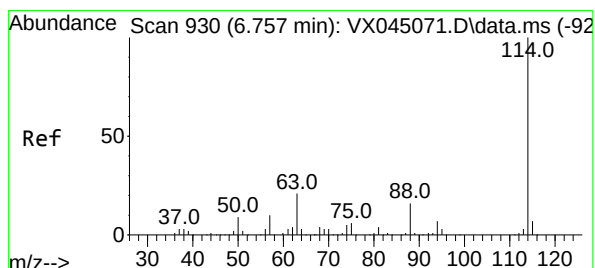
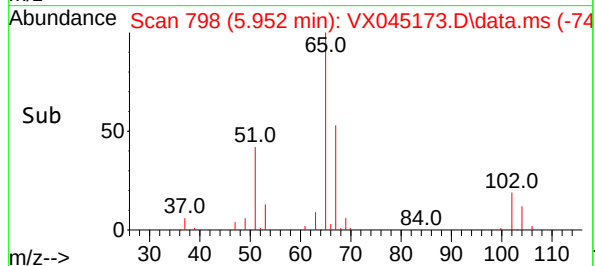
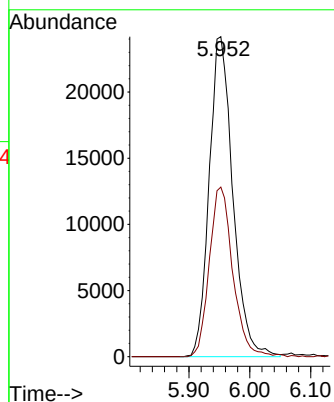
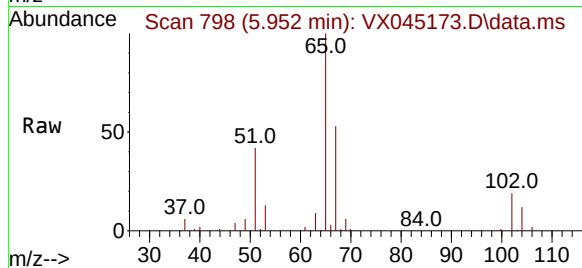
ENV-102-SB02

Tgt Ion: 65 Resp: 65182

Ion Ratio Lower Upper

65 100

67 52.4 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX045173.D

Acq: 06 Mar 2025 17:02

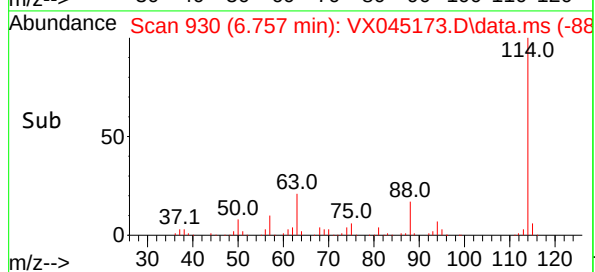
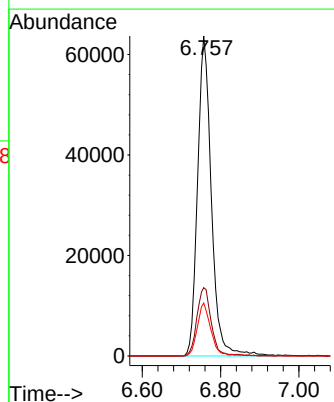
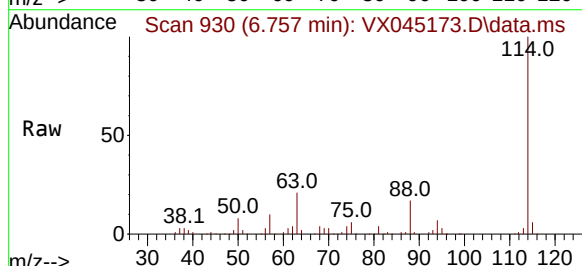
Tgt Ion: 114 Resp: 156077

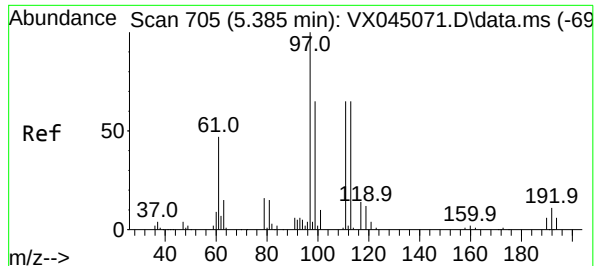
Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.8

88 16.5 0.0 32.8





#35

Dibromofluoromethane

Concen: 51.081 ug/l

RT: 5.379 min Scan# 705

Delta R.T. -0.006 min

Lab File: VX045173.D

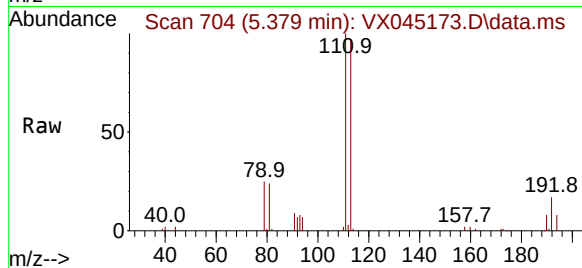
Acq: 06 Mar 2025 17:02

Instrument :

MSVOA_X

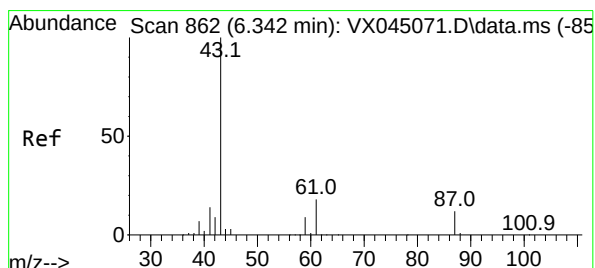
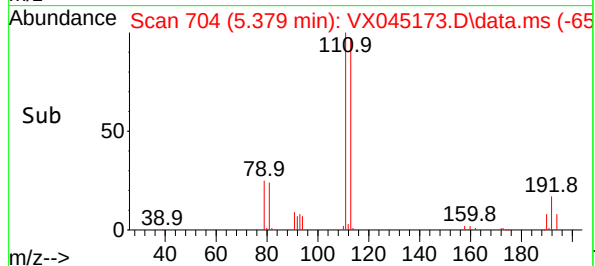
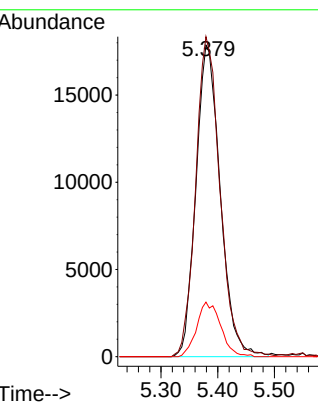
ClientSampleId :

ENV-102-SB02



Tgt Ion:113 Resp: 53310

Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.8	122.6
192	17.3	14.3	21.5



#43

Isopropyl Acetate

Concen: 16.840 ug/l

RT: 6.342 min Scan# 862

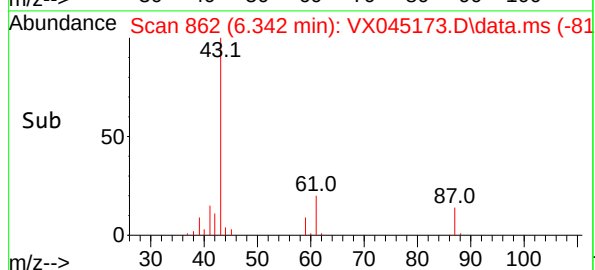
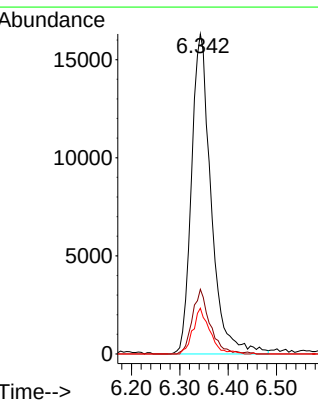
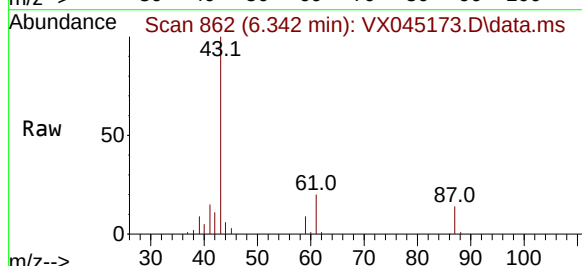
Delta R.T. 0.000 min

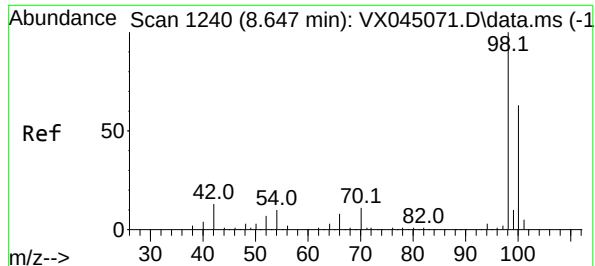
Lab File: VX045173.D

Acq: 06 Mar 2025 17:02

Tgt Ion: 43 Resp: 45924

Ion	Ratio	Lower	Upper
43	100		
61	18.0	14.9	22.3
87	12.4	9.4	14.2





#50

Toluene-d8

Concen: 50.775 ug/l

RT: 8.647 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX045173.D

Acq: 06 Mar 2025 17:02

Instrument :

MSVOA_X

ClientSampleId :

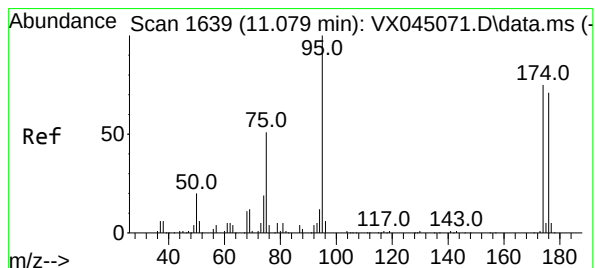
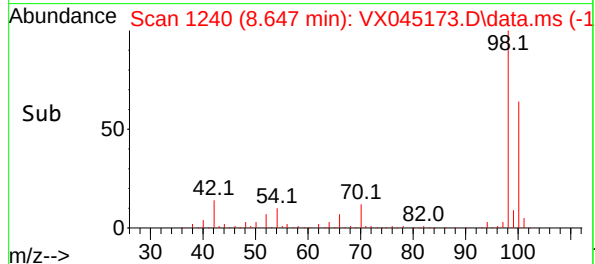
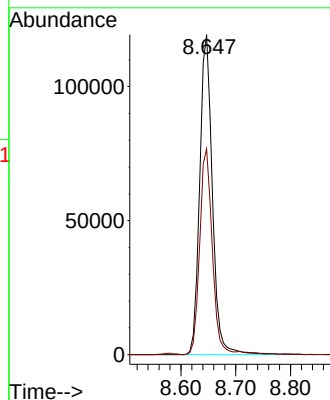
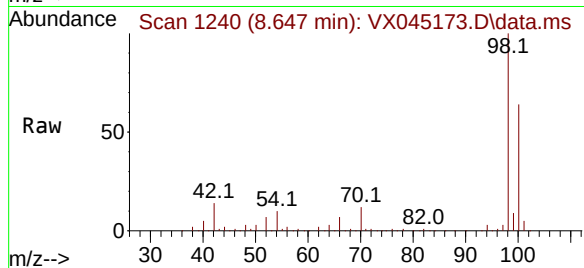
ENV-102-SB02

Tgt Ion: 98 Resp: 192112

Ion Ratio Lower Upper

98 100

100 64.5 52.0 78.0



#62

4-Bromofluorobenzene

Concen: 50.800 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX045173.D

Acq: 06 Mar 2025 17:02

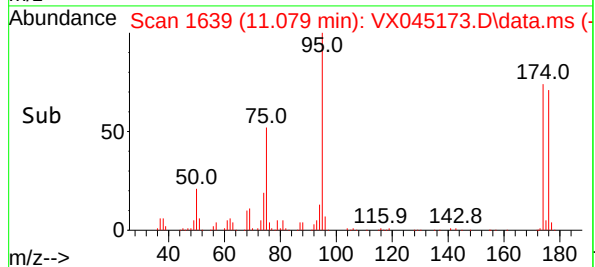
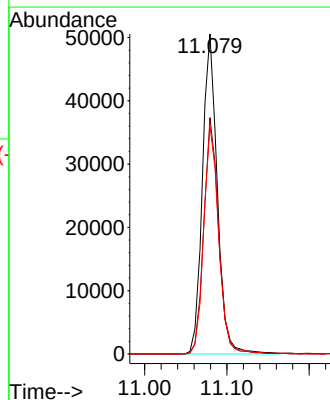
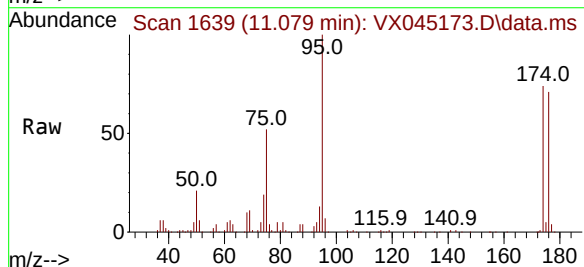
Tgt Ion: 95 Resp: 63691

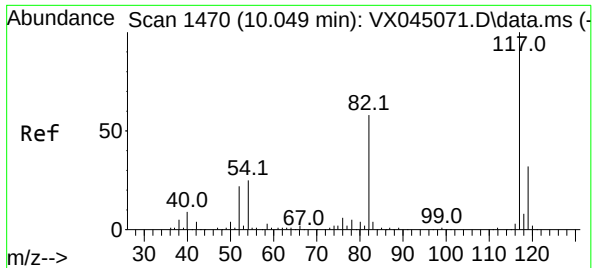
Ion Ratio Lower Upper

95 100

174 73.3 0.0 148.2

176 71.4 0.0 141.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX045173.D

Acq: 06 Mar 2025 17:02

Instrument :

MSVOA_X

ClientSampleId :

ENV-102-SB02

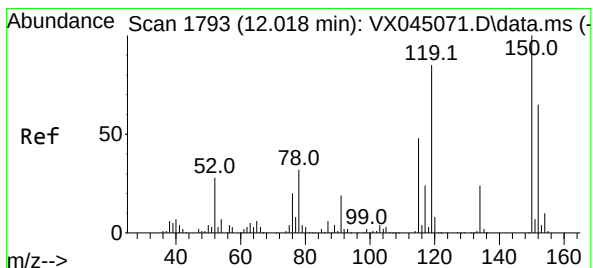
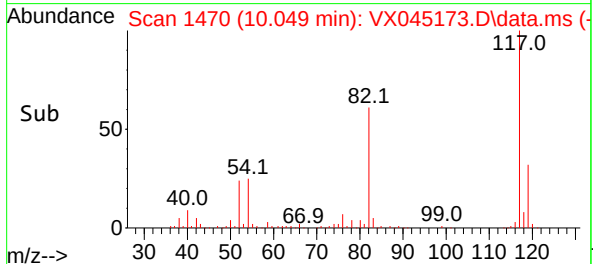
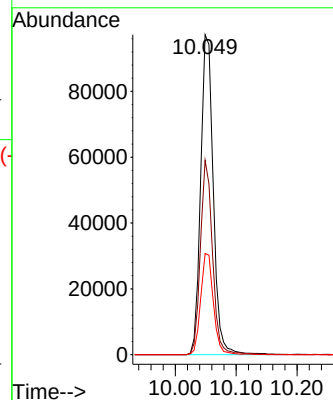
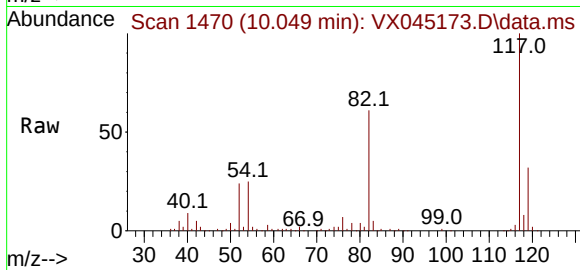
Tgt Ion:117 Resp: 139915

Ion Ratio Lower Upper

117 100

82 60.8 46.3 69.5

119 31.6 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX045173.D

Acq: 06 Mar 2025 17:02

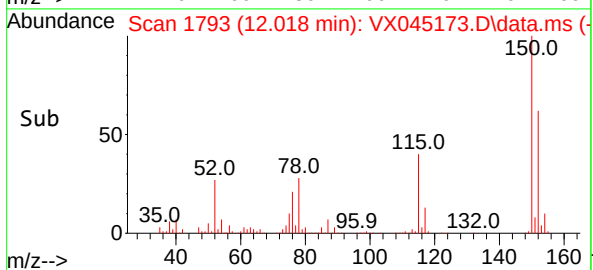
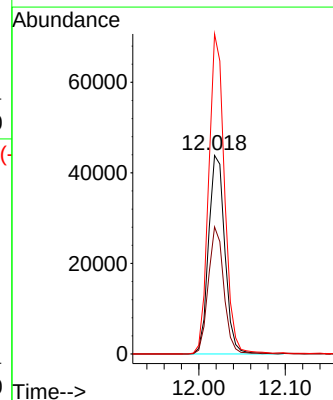
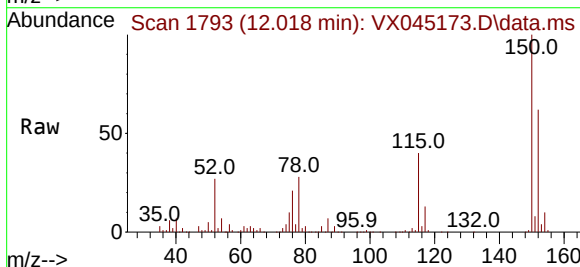
Tgt Ion:152 Resp: 57260

Ion Ratio Lower Upper

152 100

115 61.2 44.2 132.6

150 157.3 0.0 349.0



Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	03/04/25	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	03/04/25	
Client Sample ID:	ENV-104-SB01			SDG No.:	Q1488	
Lab Sample ID:	Q1488-10			Matrix:	TCLP	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	TCLP VOA	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :	SW5035					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045174.D	1		03/06/25 17:25	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	5.40	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.8		70 (74) - 130 (125)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		70 (75) - 130 (124)	101%	SPK: 50
2037-26-5	Toluene-d8	51.6		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.9		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	75500	5.55			
540-36-3	1,4-Difluorobenzene	152000	6.757			
3114-55-4	Chlorobenzene-d5	138000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	55500	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045174.D
 Acq On : 06 Mar 2025 17:25
 Operator : JC/MD
 Sample : Q1488-10
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ENV-104-SB01

Quant Time: Mar 07 00:47:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

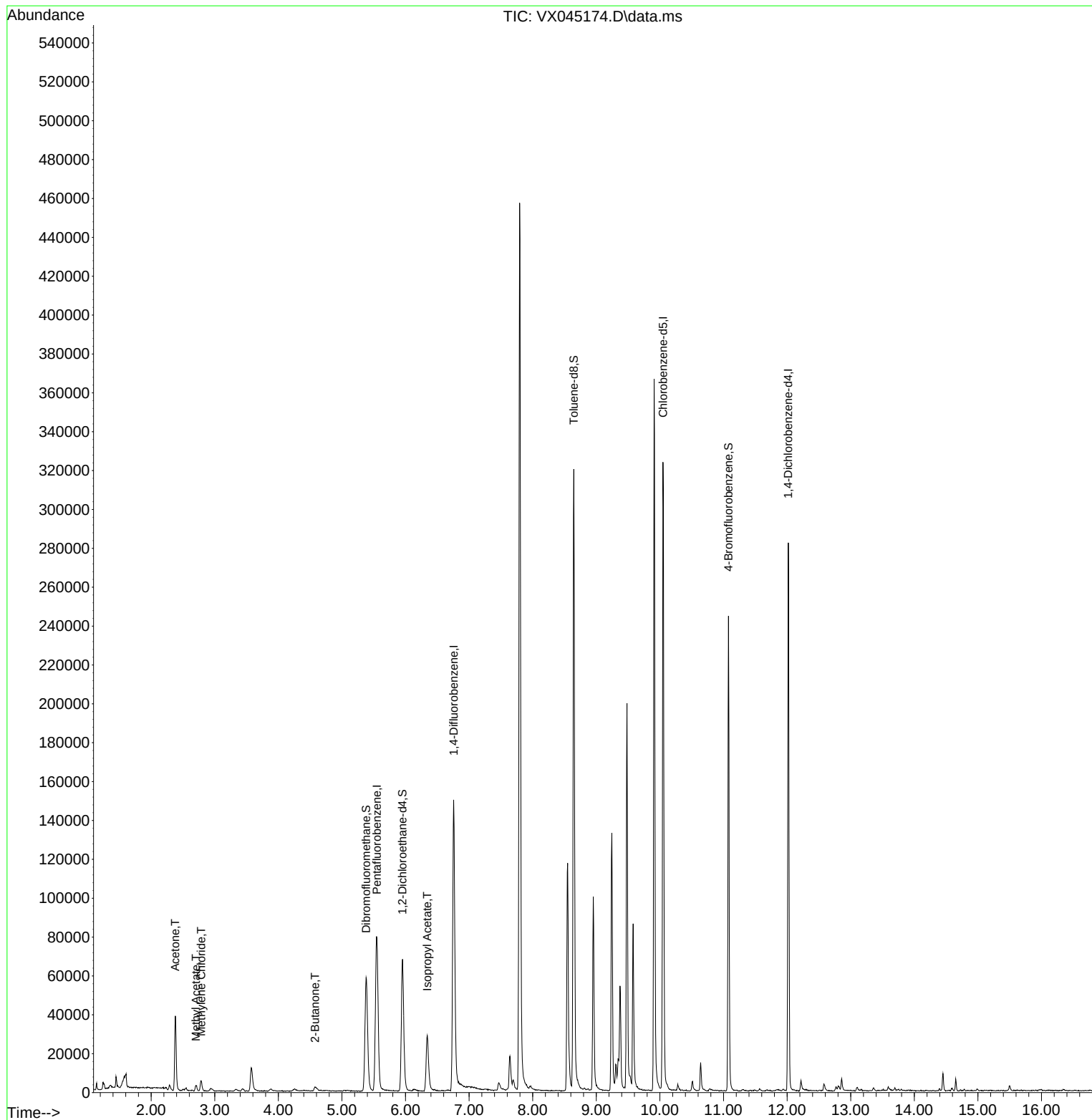
Internal Standards						
1) Pentafluorobenzene	5.550	168	75491	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	152473	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	138291	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	55464	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	63445	52.836	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.680%			
35) Dibromofluoromethane	5.379	113	51588	50.599	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.200%			
50) Toluene-d8	8.647	98	190820	51.626	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.260%			
62) 4-Bromofluorobenzene	11.079	95	63521	51.862	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.720%			
Target Compounds					Qvalue	
16) Acetone	2.380	43	41961	75.316	ug/l	95
18) Methyl Acetate	2.703	43	3776	2.817	ug/l	98
20) Methylene Chloride	2.788	84	2526	2.289	ug/l	89
25) 2-Butanone	4.574	43	4523	5.393	ug/l	97
43) Isopropyl Acetate	6.342	43	42994	16.138	ug/l	99

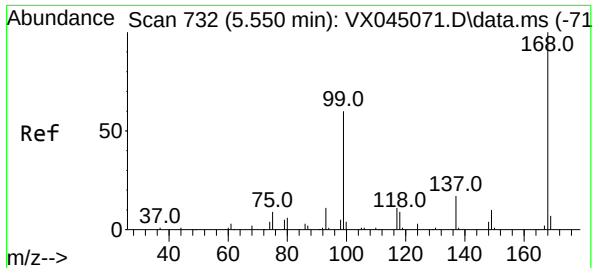
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045174.D
Acq On : 06 Mar 2025 17:25
Operator : JC/MD
Sample : Q1488-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB01

Quant Time: Mar 07 00:47:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

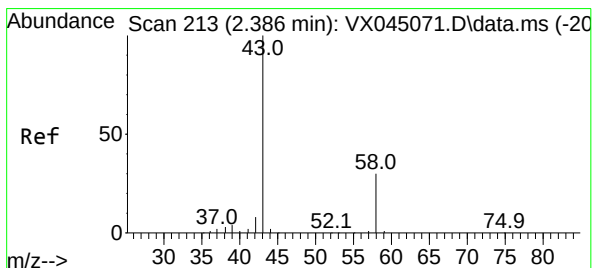
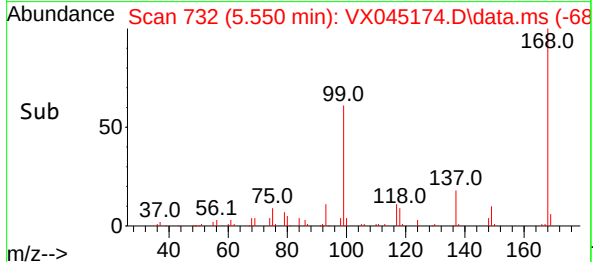
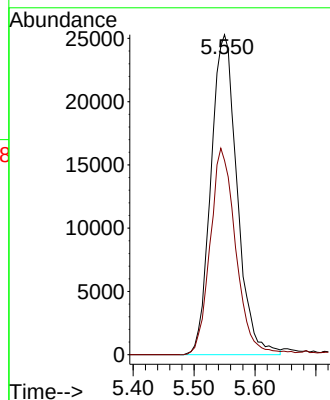
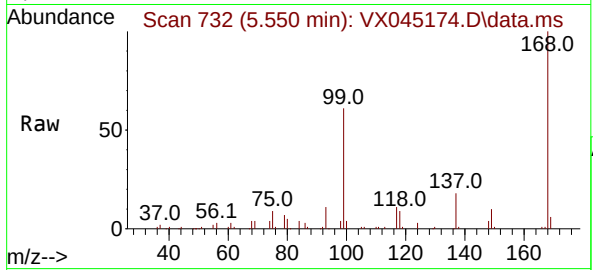




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX045174.D
Acq: 06 Mar 2025 17:25

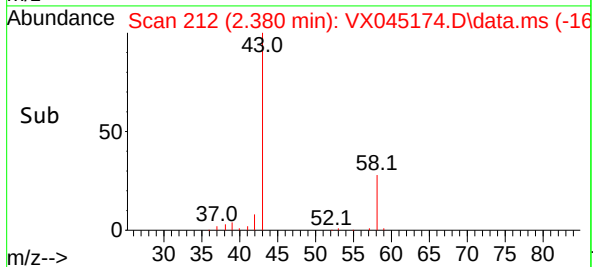
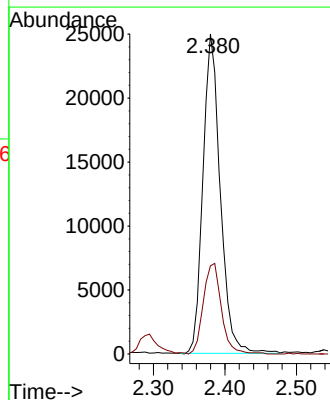
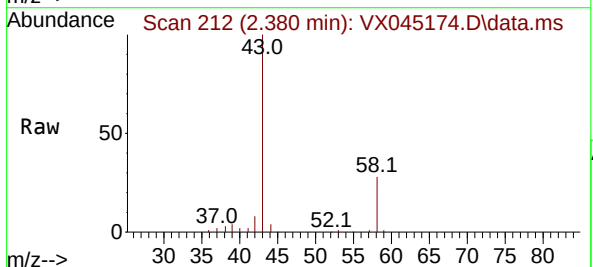
Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB01

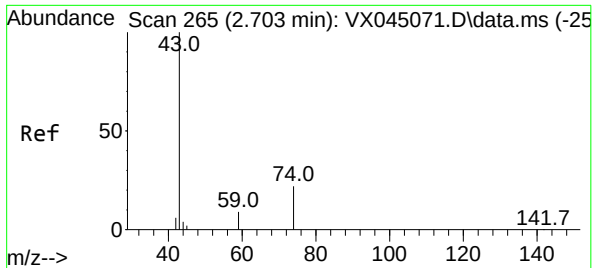
Tgt Ion:168 Resp: 75491
Ion Ratio Lower Upper
168 100
99 60.7 48.2 72.4



#16
Acetone
Concen: 75.316 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045174.D
Acq: 06 Mar 2025 17:25

Tgt Ion: 43 Resp: 41961
Ion Ratio Lower Upper
43 100
58 27.6 24.2 36.4





#18

Methyl Acetate

Concen: 2.817 ug/l

RT: 2.703 min Scan# 2

Delta R.T. 0.000 min

Lab File: VX045174.D

Acq: 06 Mar 2025 17:25

Instrument :

MSVOA_X

ClientSampleId :

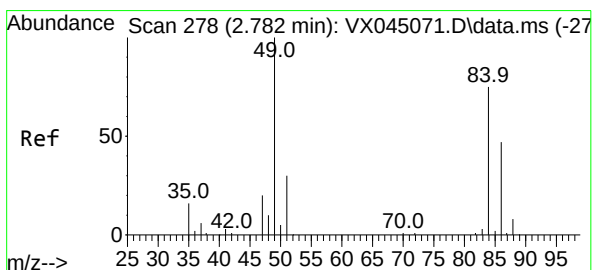
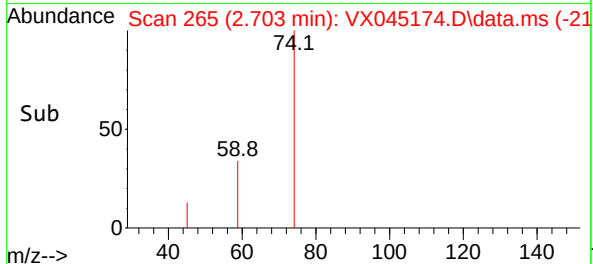
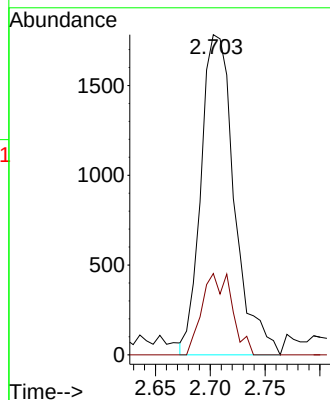
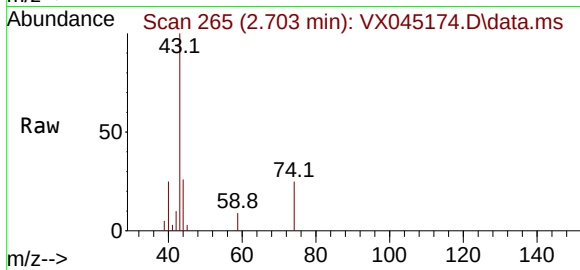
ENV-104-SB01

Tgt Ion: 43 Resp: 3776

Ion Ratio Lower Upper

43 100

74 22.9 17.4 26.2



#20

Methylene Chloride

Concen: 2.289 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.006 min

Lab File: VX045174.D

Acq: 06 Mar 2025 17:25

Tgt Ion: 84 Resp: 2526

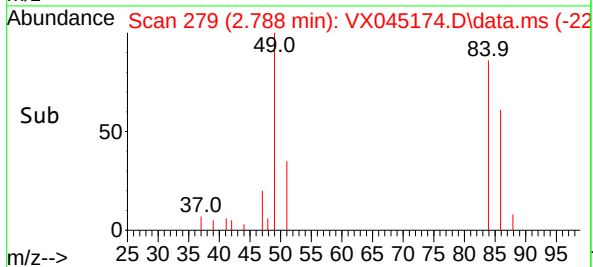
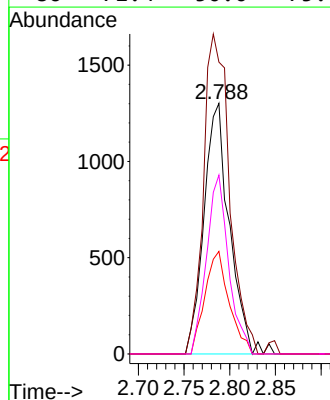
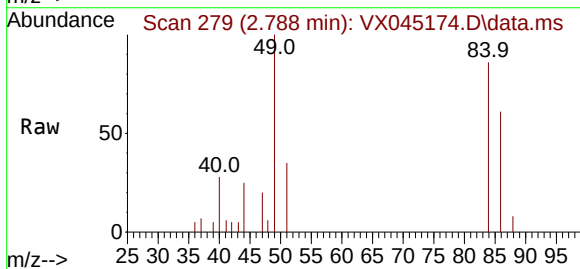
Ion Ratio Lower Upper

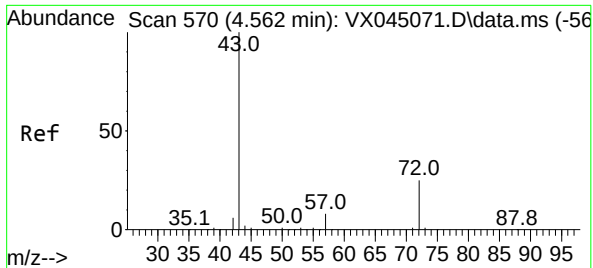
84 100

49 116.5 106.5 159.7

51 41.0 32.1 48.1

86 71.4 50.0 75.0





#25

2-Butanone

Concen: 5.393 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.012 min

Lab File: VX045174.D

Acq: 06 Mar 2025 17:25

Instrument :

MSVOA_X

ClientSampleId :

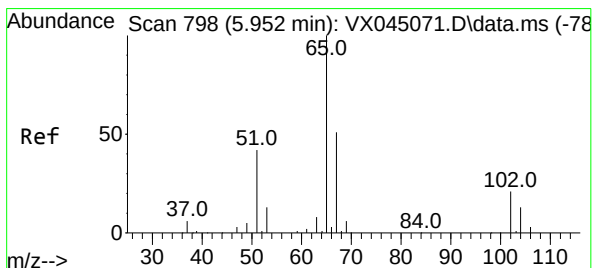
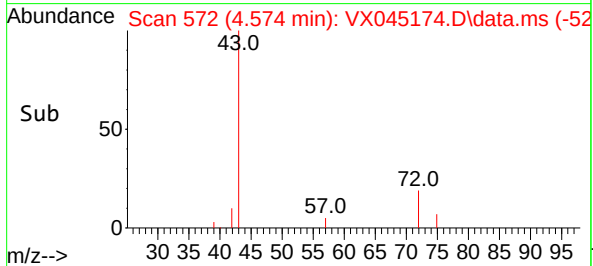
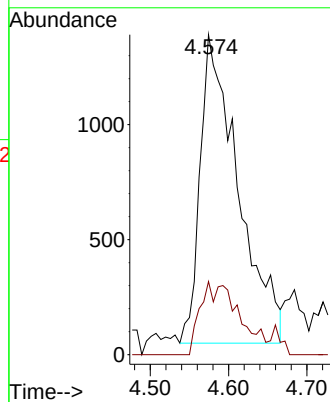
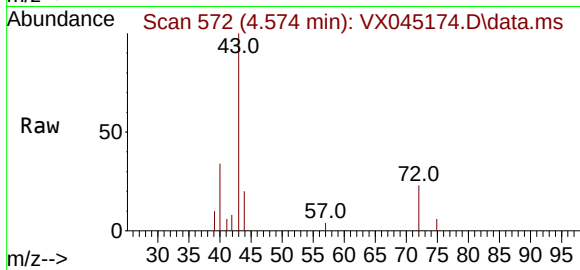
ENV-104-SB01

Tgt Ion: 43 Resp: 4523

Ion Ratio Lower Upper

43 100

72 23.7 20.0 30.0



#33

1,2-Dichloroethane-d4

Concen: 52.836 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045174.D

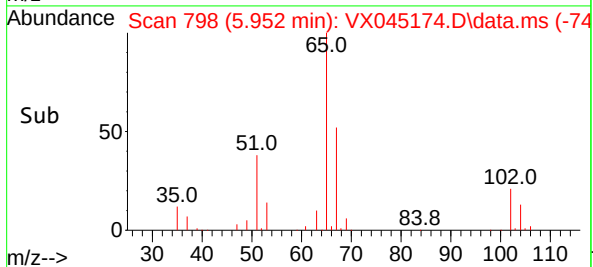
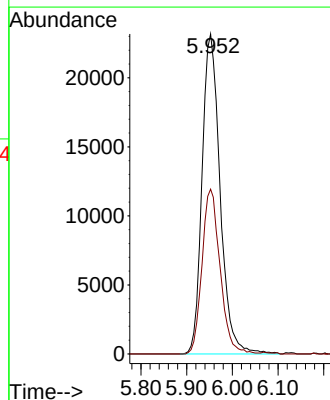
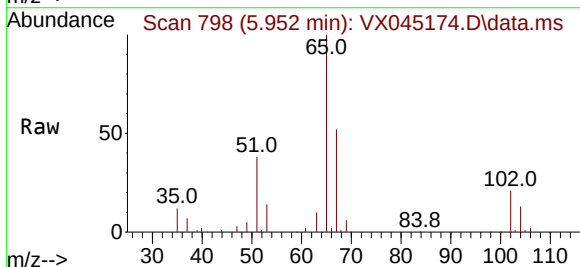
Acq: 06 Mar 2025 17:25

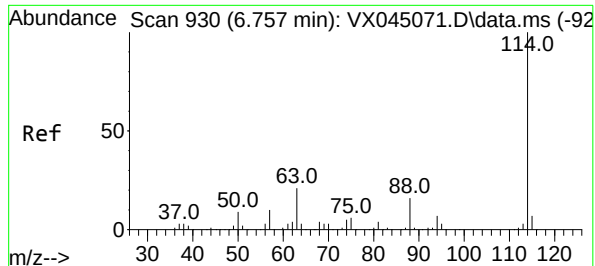
Tgt Ion: 65 Resp: 63445

Ion Ratio Lower Upper

65 100

67 51.5 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX045174.D

Acq: 06 Mar 2025 17:25

Instrument :

MSVOA_X

ClientSampleId :

ENV-104-SB01

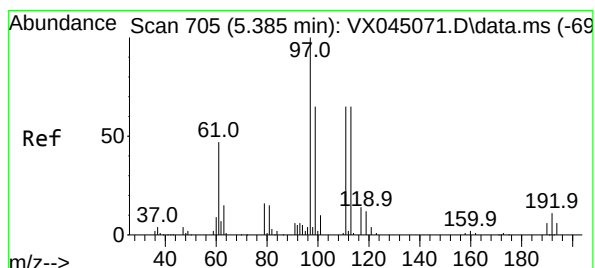
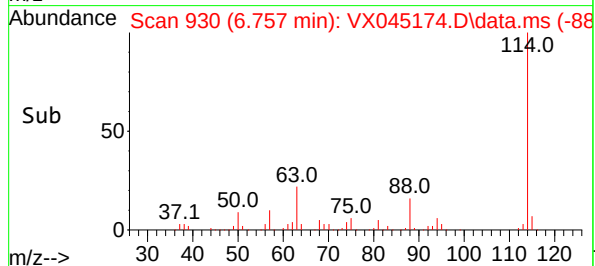
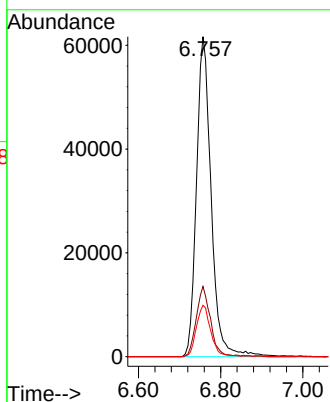
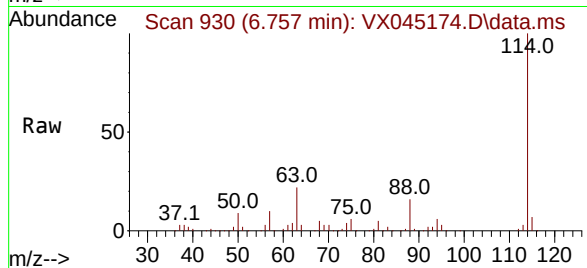
Tgt Ion:114 Resp: 152473

Ion Ratio Lower Upper

114 100

63 22.0 0.0 41.8

88 16.0 0.0 32.8



#35

Dibromofluoromethane

Concen: 50.599 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX045174.D

Acq: 06 Mar 2025 17:25

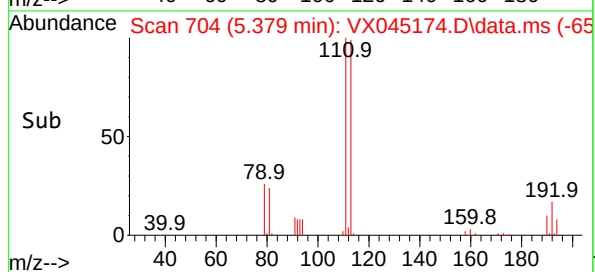
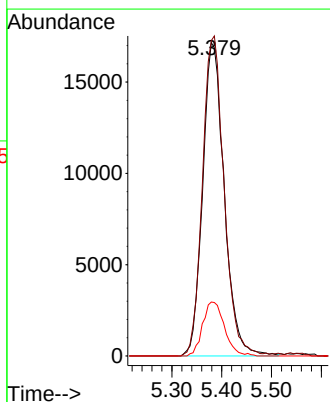
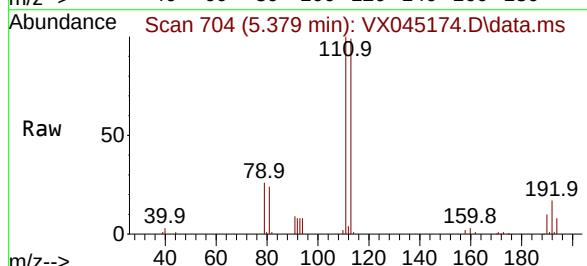
Tgt Ion:113 Resp: 51588

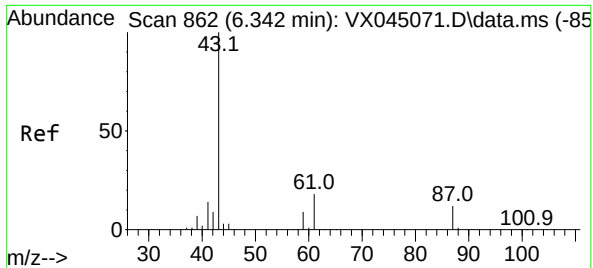
Ion Ratio Lower Upper

113 100

111 102.0 81.8 122.6

192 17.4 14.3 21.5

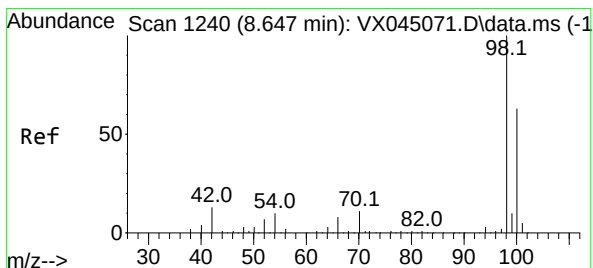
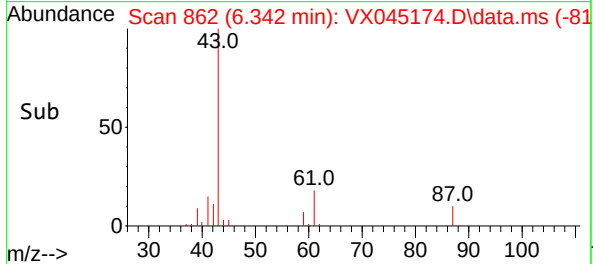
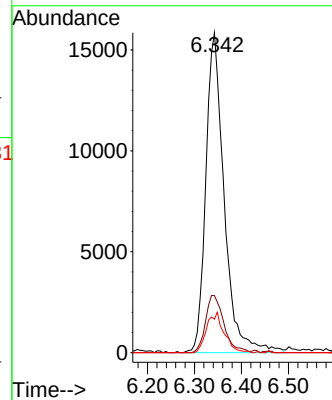
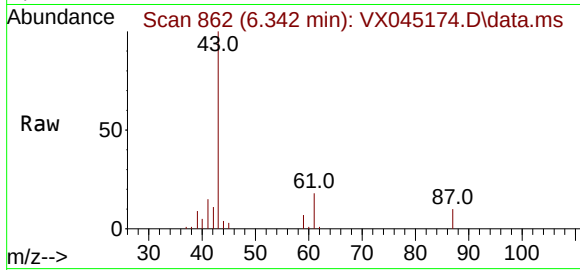




#43
Isopropyl Acetate
Concen: 16.138 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.000 min
Lab File: VX045174.D
Acq: 06 Mar 2025 17:25

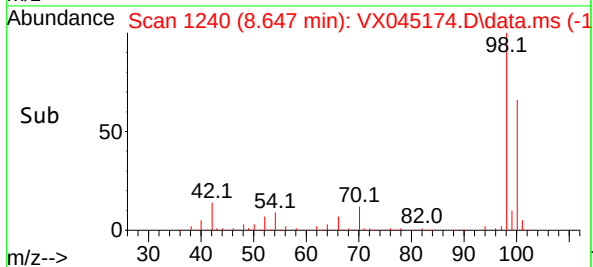
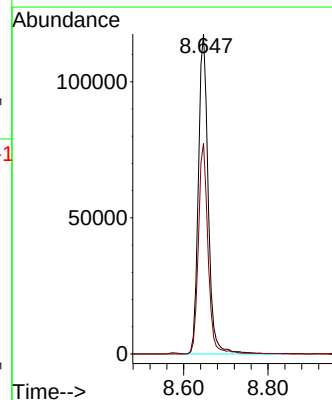
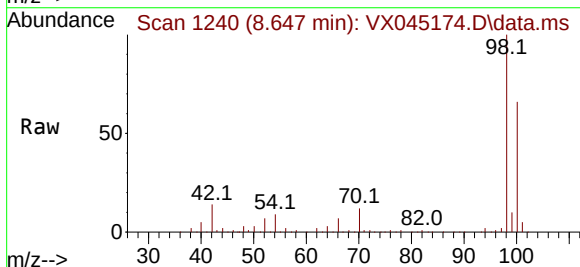
Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB01

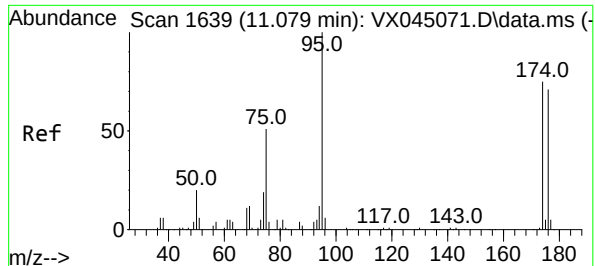
Tgt Ion:	43	Resp:	42994
Ion	Ratio	Lower	Upper
43	100		
61	17.9	14.9	22.3
87	12.0	9.4	14.2



#50
Toluene-d8
Concen: 51.626 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045174.D
Acq: 06 Mar 2025 17:25

Tgt Ion:	98	Resp:	190820
Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.0	78.0

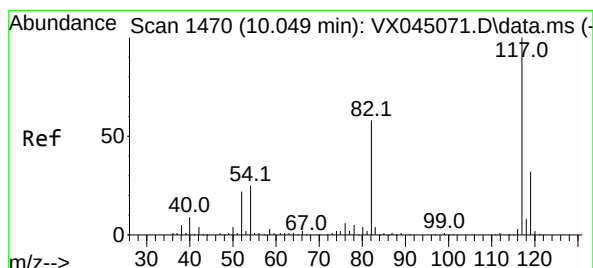
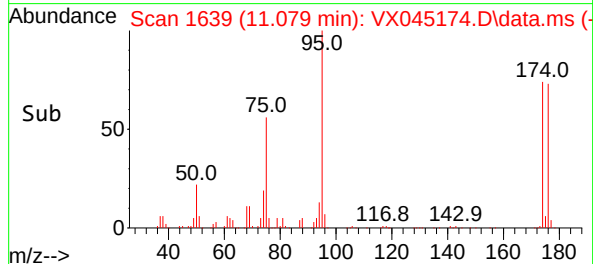
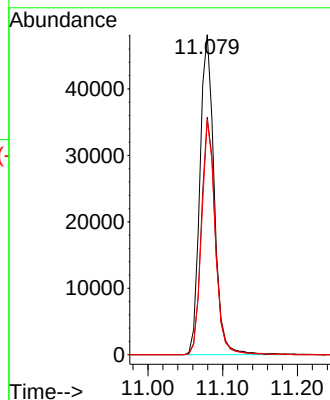
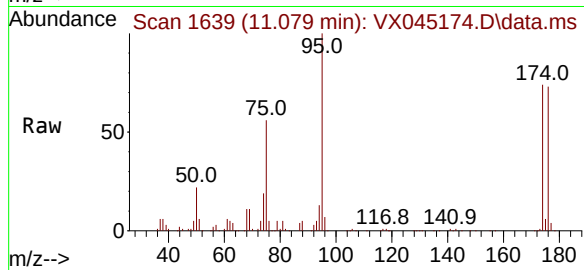




#62
4-Bromofluorobenzene
Concen: 51.862 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045174.D
Acq: 06 Mar 2025 17:25

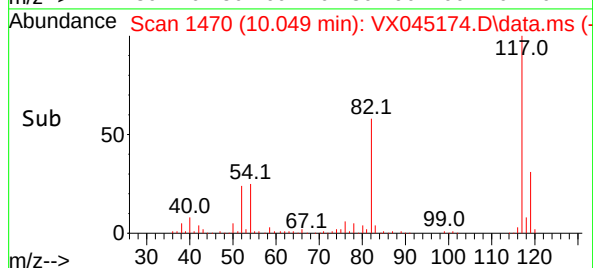
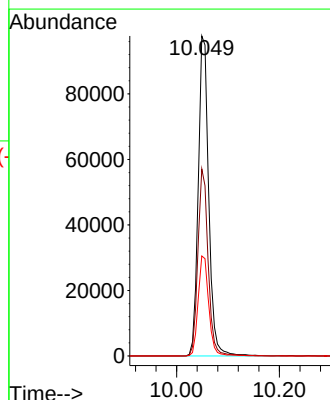
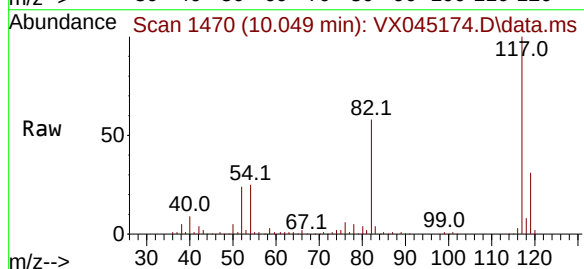
Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB01

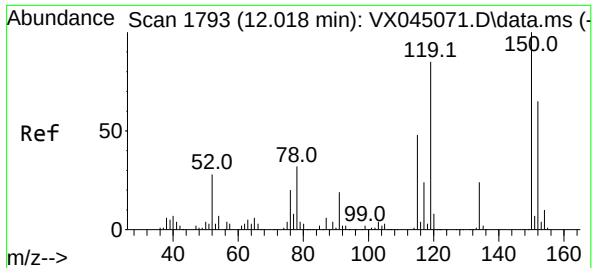
Tgt Ion	95	Resp:	63521
Ion Ratio	Lower	Upper	
95	100		
174	72.6	0.0	148.2
176	70.4	0.0	141.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045174.D
Acq: 06 Mar 2025 17:25

Tgt Ion	117	Resp:	138291
Ion Ratio	Lower	Upper	
117	100		
82	58.5	46.3	69.5
119	31.2	25.7	38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX045174.D

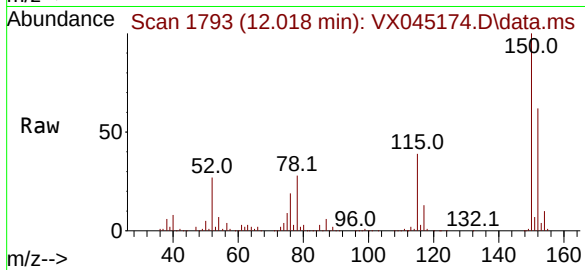
Acq: 06 Mar 2025 17:25

Instrument :

MSVOA_X

ClientSampleId :

ENV-104-SB01



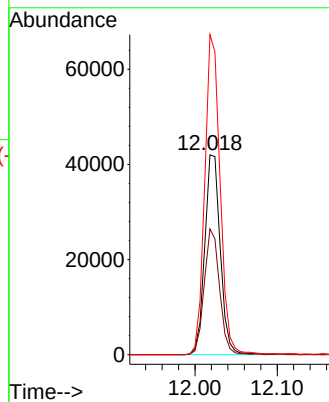
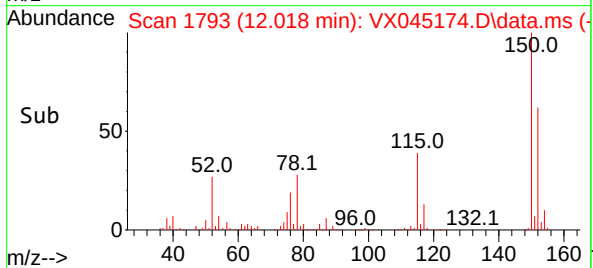
Tgt Ion:152 Resp: 55464

Ion Ratio Lower Upper

152 100

115 61.8 44.2 132.6

150 158.1 0.0 349.0



Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	03/04/25	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	03/04/25	
Client Sample ID:	ENV-104-SB02			SDG No.:	Q1488	
Lab Sample ID:	Q1488-12			Matrix:	TCLP	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	TCLP VOA	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :	SW5035					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045175.D	1		03/06/25 17:49	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	6.80	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.4		70 (74) - 130 (125)	105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		70 (75) - 130 (124)	100%	SPK: 50
2037-26-5	Toluene-d8	52.1		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.5		70 (77) - 130 (121)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	75000	5.55			
540-36-3	1,4-Difluorobenzene	148000	6.757			
3114-55-4	Chlorobenzene-d5	137000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	56400	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045175.D
 Acq On : 06 Mar 2025 17:49
 Operator : JC/MD
 Sample : Q1488-12
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ENV-104-SB02

Quant Time: Mar 07 00:48:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

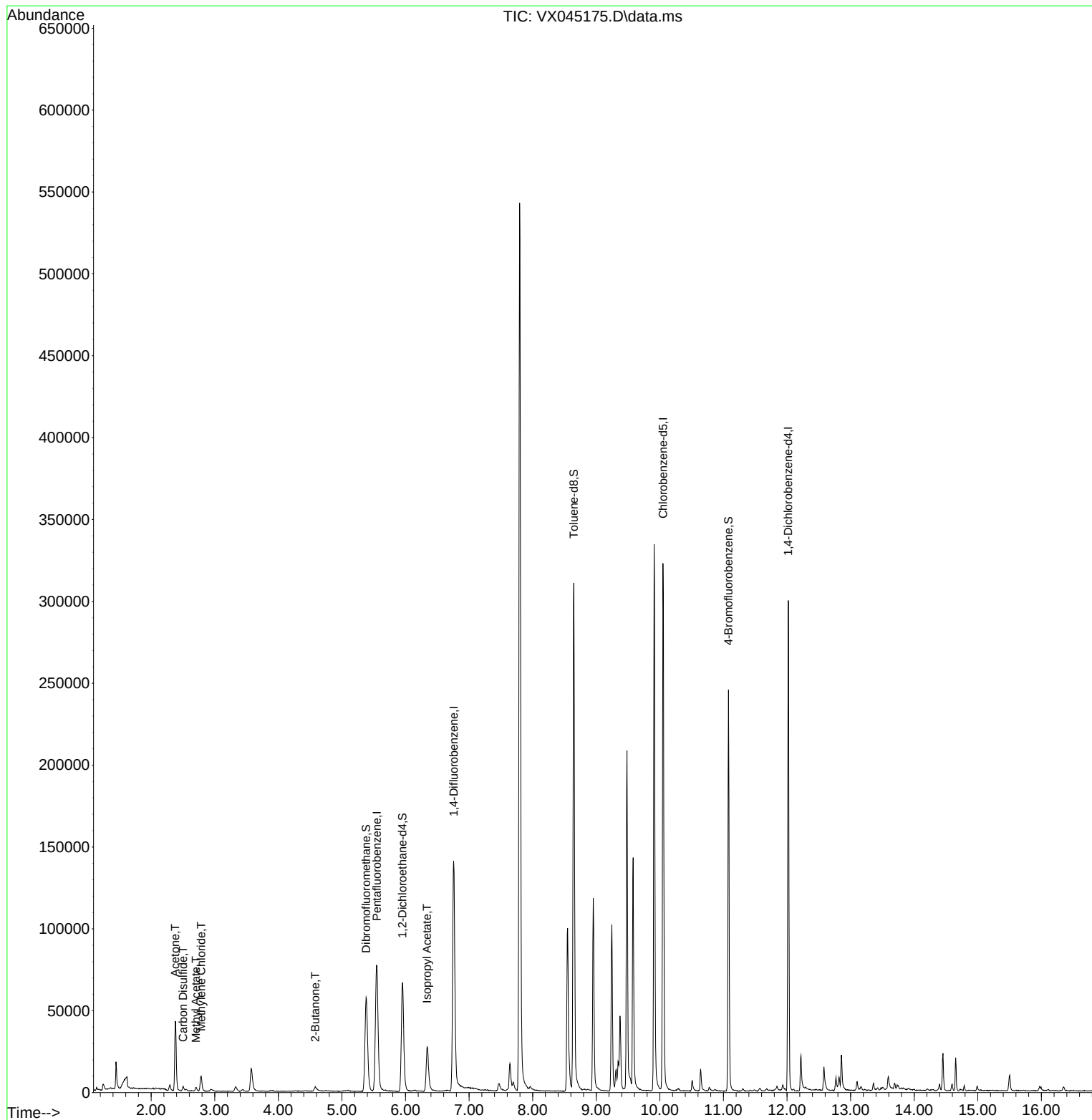
Internal Standards						
1) Pentafluorobenzene	5.550	168	75040	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	148256	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	137450	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	56384	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	62508	52.368	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.740%			
35) Dibromofluoromethane	5.379	113	49589	50.022	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.040%			
50) Toluene-d8	8.647	98	187191	52.084	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.160%			
62) 4-Bromofluorobenzene	11.079	95	62513	52.491	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.980%			
Target Compounds						
16) Acetone	2.380	43	46915	84.714	ug/l	99
17) Carbon Disulfide	2.502	76	3381	1.377	ug/l	100
18) Methyl Acetate	2.703	43	3232	2.426	ug/l	93
20) Methylene Chloride	2.788	84	4495	4.097	ug/l	93
25) 2-Butanone	4.581	43	5655	6.784	ug/l	91
43) Isopropyl Acetate	6.336	43	40419	15.603	ug/l	97

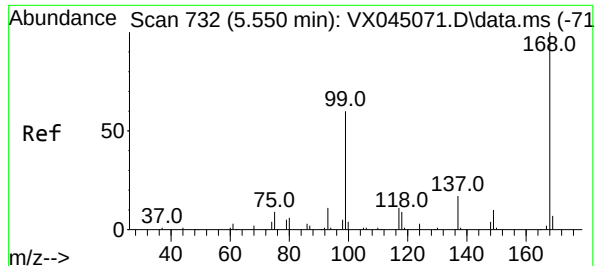
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045175.D
Acq On : 06 Mar 2025 17:49
Operator : JC/MD
Sample : Q1488-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB02

Quant Time: Mar 07 00:48:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

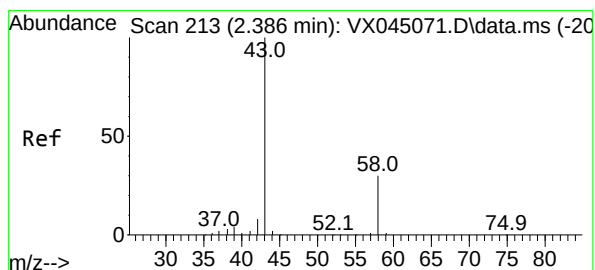
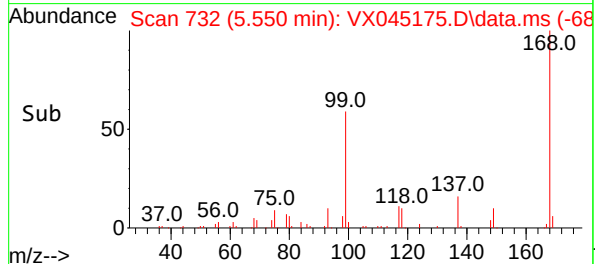
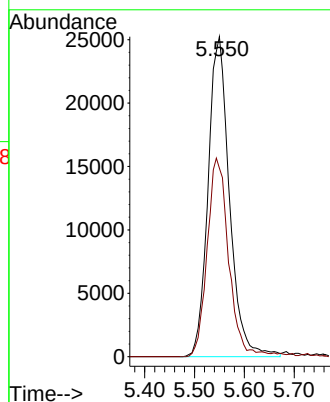
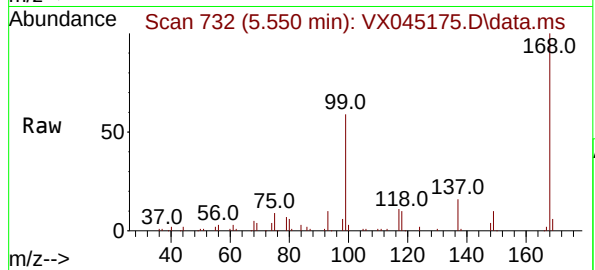




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX045175.D
Acq: 06 Mar 2025 17:49

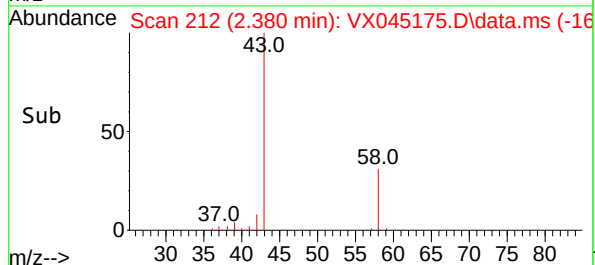
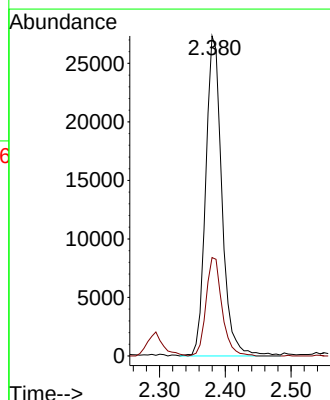
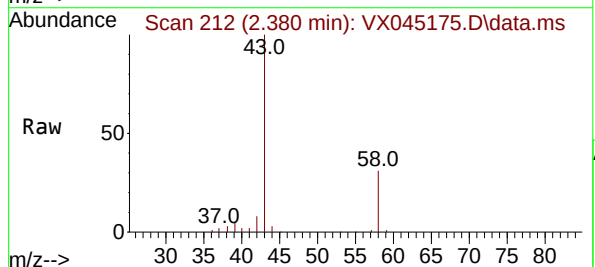
Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB02

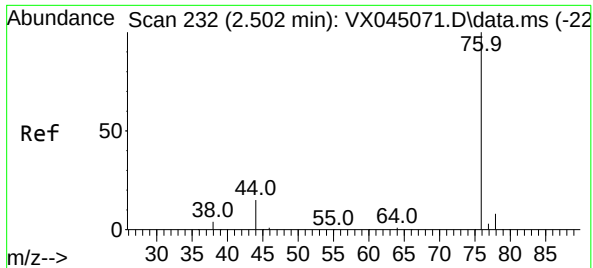
Tgt Ion:168 Resp: 75040
Ion Ratio Lower Upper
168 100
99 58.9 48.2 72.4



#16
Acetone
Concen: 84.714 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045175.D
Acq: 06 Mar 2025 17:49

Tgt Ion: 43 Resp: 46915
Ion Ratio Lower Upper
43 100
58 30.8 24.2 36.4





#17

Carbon Disulfide

Concen: 1.377 ug/l

RT: 2.502 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX045175.D

Acq: 06 Mar 2025 17:49

Instrument :

MSVOA_X

ClientSampleId :

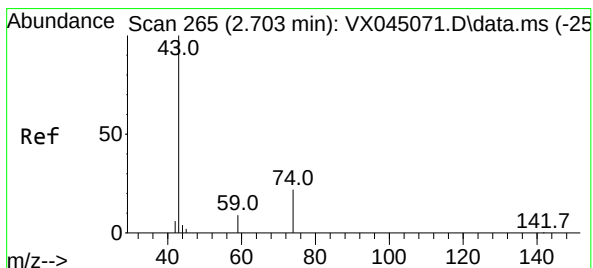
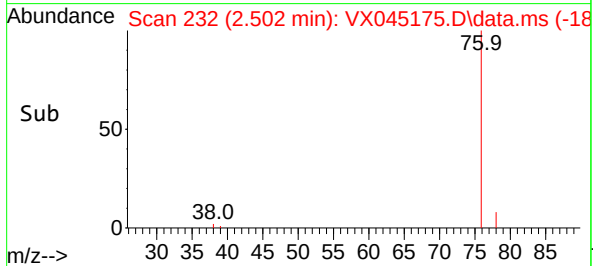
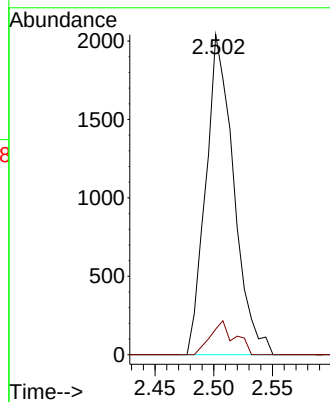
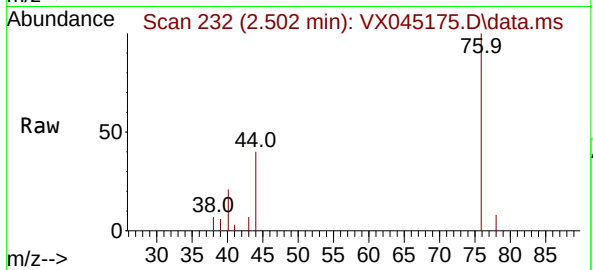
ENV-104-SB02

Tgt Ion: 76 Resp: 3381

Ion Ratio Lower Upper

76 100

78 8.0 6.6 9.8



#18

Methyl Acetate

Concen: 2.426 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX045175.D

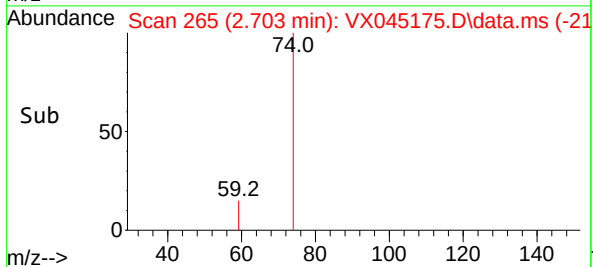
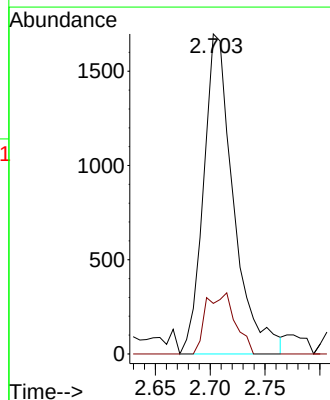
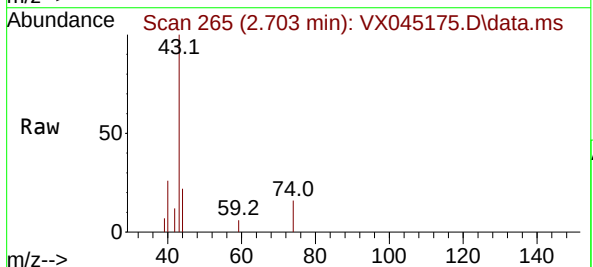
Acq: 06 Mar 2025 17:49

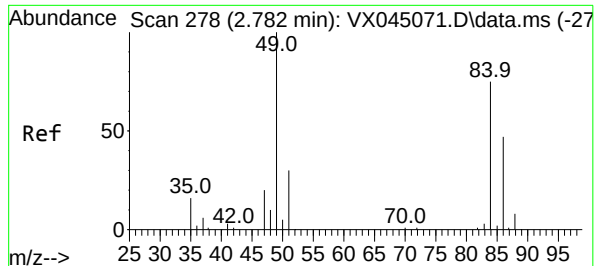
Tgt Ion: 43 Resp: 3232

Ion Ratio Lower Upper

43 100

74 18.6 17.4 26.2





#20

Methylene Chloride

Concen: 4.097 ug/l

RT: 2.788 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX045175.D

Acq: 06 Mar 2025 17:49

Instrument :

MSVOA_X

ClientSampleId :

ENV-104-SB02

Tgt Ion: 84 Resp: 4495

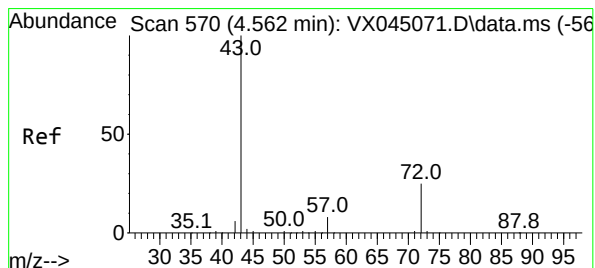
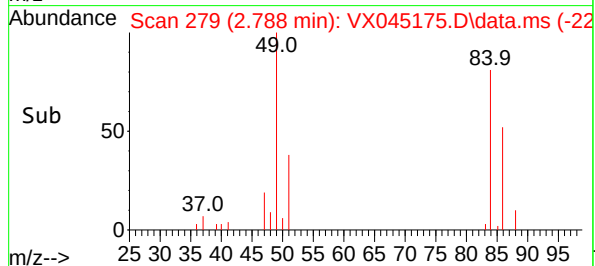
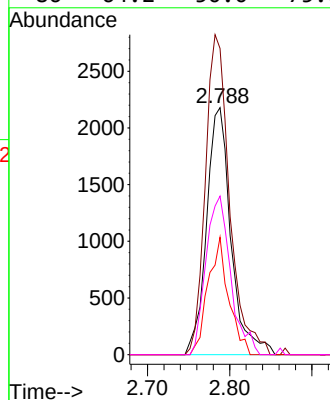
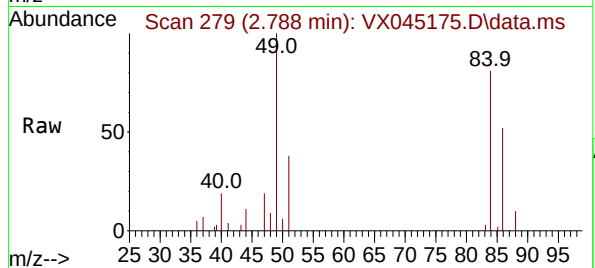
Ion Ratio Lower Upper

84 100

49 124.0 106.5 159.7

51 47.5 32.1 48.1

86 64.2 50.0 75.0



#25

2-Butanone

Concen: 6.784 ug/l

RT: 4.581 min Scan# 573

Delta R.T. 0.018 min

Lab File: VX045175.D

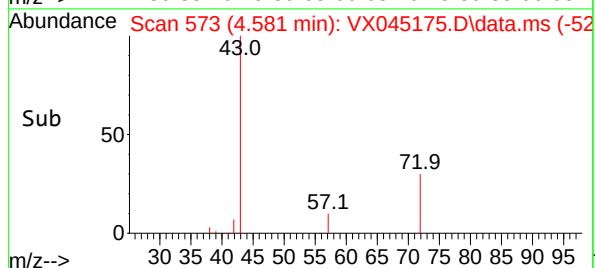
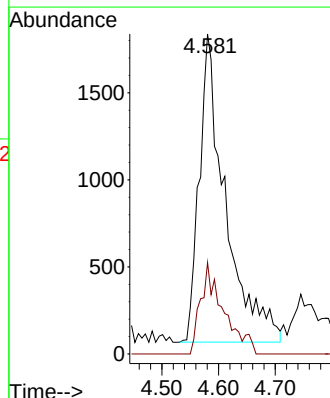
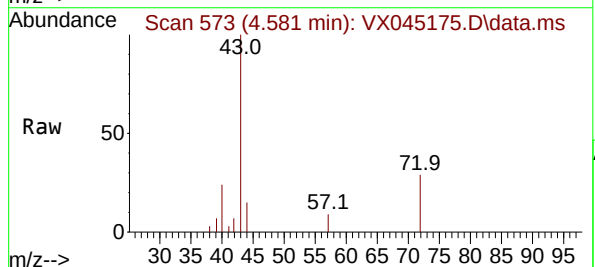
Acq: 06 Mar 2025 17:49

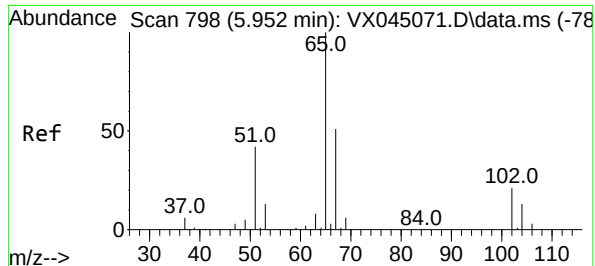
Tgt Ion: 43 Resp: 5655

Ion Ratio Lower Upper

43 100

72 29.7 20.0 30.0





#33

1,2-Dichloroethane-d4

Concen: 52.368 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045175.D

Acq: 06 Mar 2025 17:49

Instrument :

MSVOA_X

ClientSampleId :

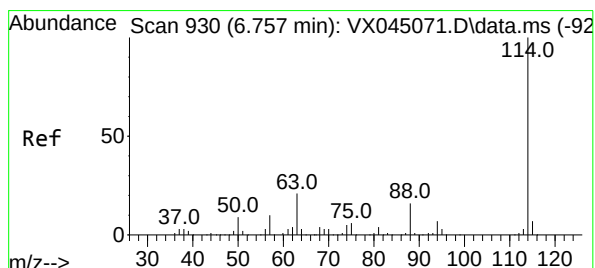
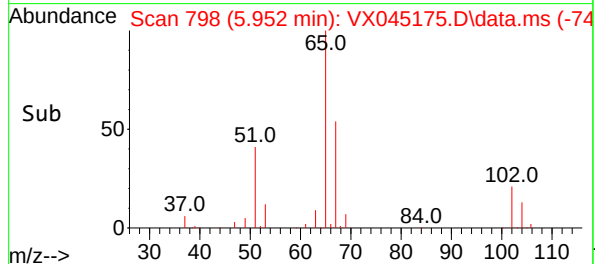
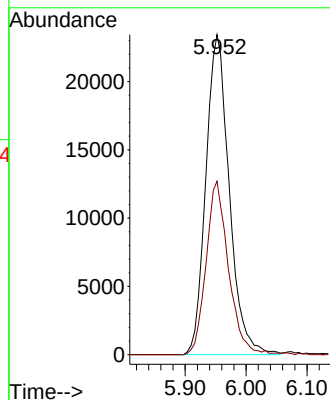
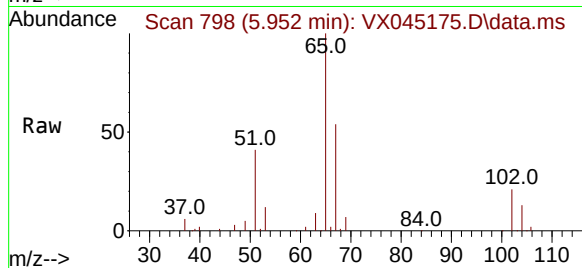
ENV-104-SB02

Tgt Ion: 65 Resp: 62508

Ion Ratio Lower Upper

65 100

67 51.7 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX045175.D

Acq: 06 Mar 2025 17:49

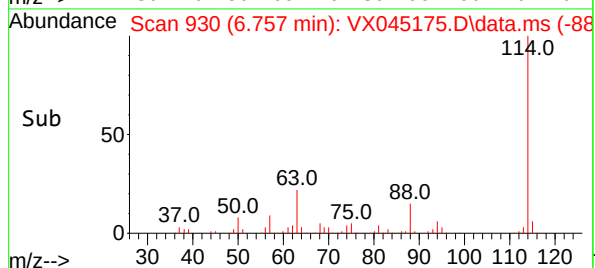
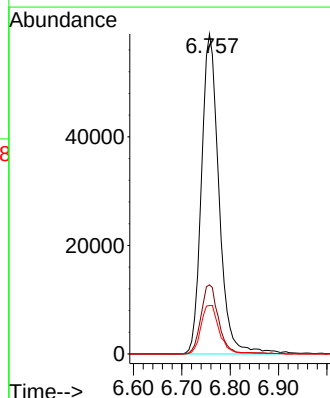
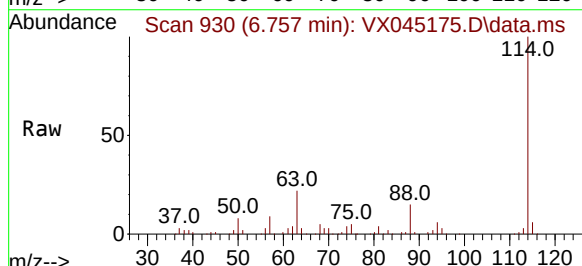
Tgt Ion: 114 Resp: 148256

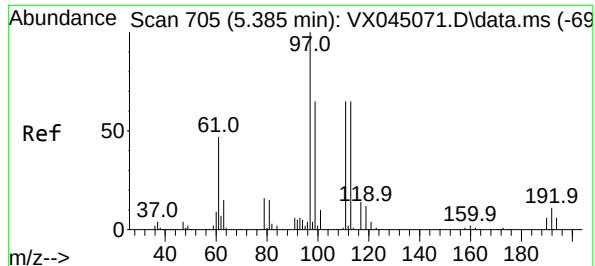
Ion Ratio Lower Upper

114 100

63 21.6 0.0 41.8

88 15.2 0.0 32.8





#35

Dibromofluoromethane

Concen: 50.022 ug/l

RT: 5.379 min Scan# 705

Delta R.T. -0.006 min

Lab File: VX045175.D

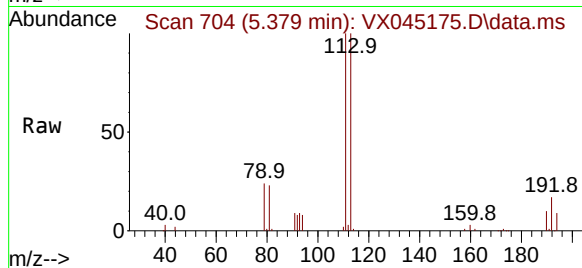
Acq: 06 Mar 2025 17:49

Instrument :

MSVOA_X

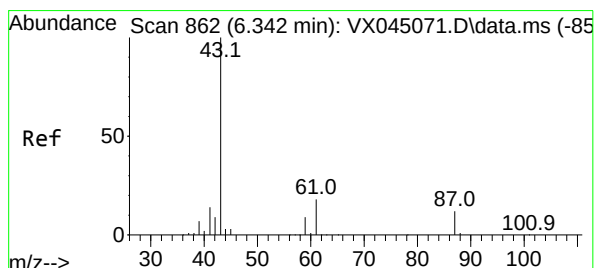
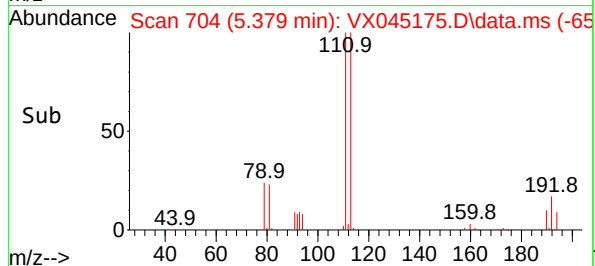
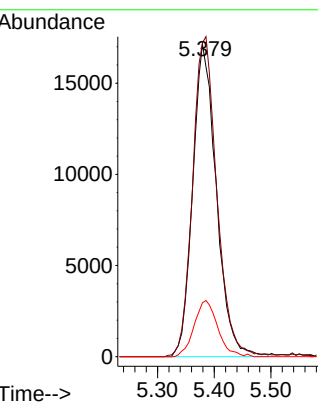
ClientSampleId :

ENV-104-SB02



Tgt Ion:113 Resp: 49589

Ion	Ratio	Lower	Upper
113	100		
111	105.2	81.8	122.6
192	18.0	14.3	21.5



#43

Isopropyl Acetate

Concen: 15.603 ug/l

RT: 6.336 min Scan# 861

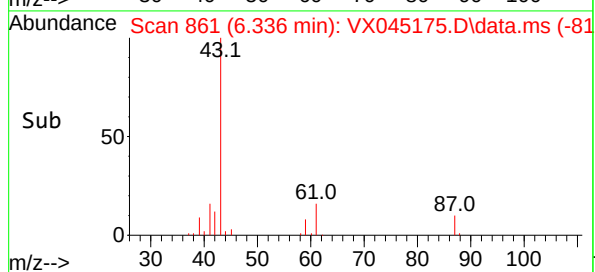
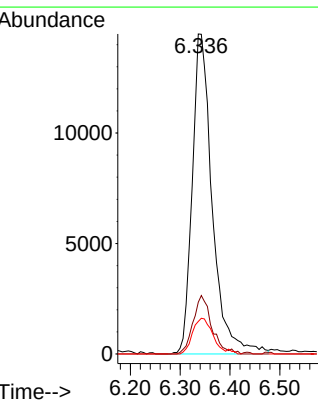
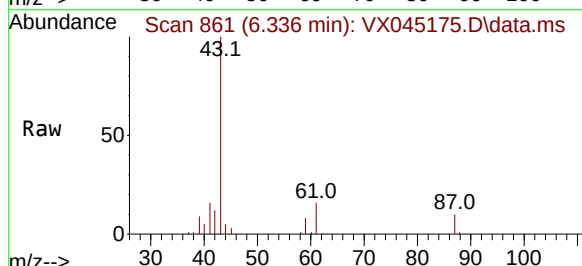
Delta R.T. -0.006 min

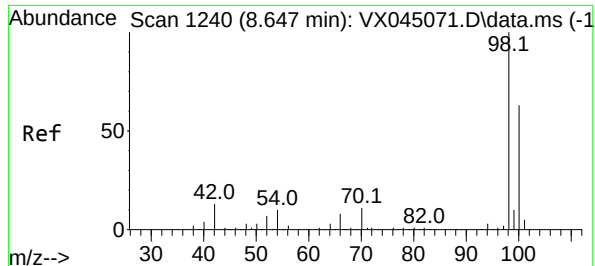
Lab File: VX045175.D

Acq: 06 Mar 2025 17:49

Tgt Ion: 43 Resp: 40419

Ion	Ratio	Lower	Upper
43	100		
61	17.0	14.9	22.3
87	11.4	9.4	14.2





#50

Toluene-d8

Concen: 52.084 ug/l

RT: 8.647 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX045175.D

Acq: 06 Mar 2025 17:49

Instrument :

MSVOA_X

ClientSampleId :

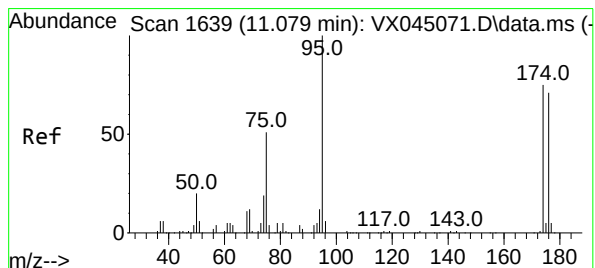
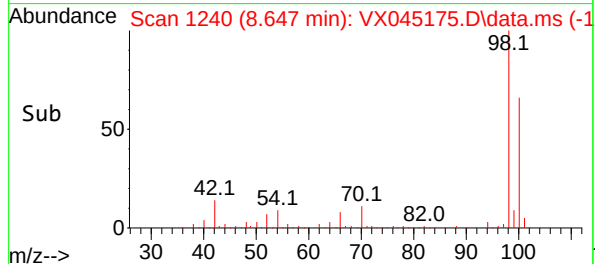
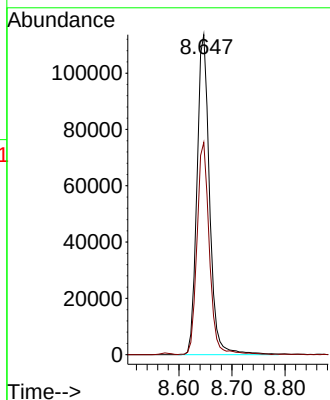
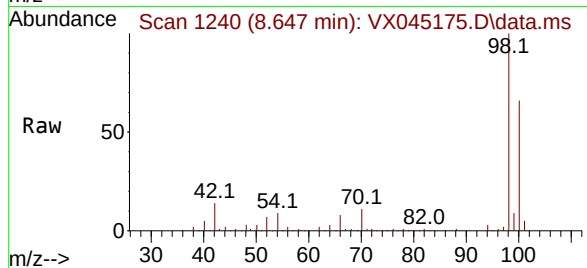
ENV-104-SB02

Tgt Ion: 98 Resp: 187191

Ion Ratio Lower Upper

98 100

100 65.0 52.0 78.0



#62

4-Bromofluorobenzene

Concen: 52.491 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX045175.D

Acq: 06 Mar 2025 17:49

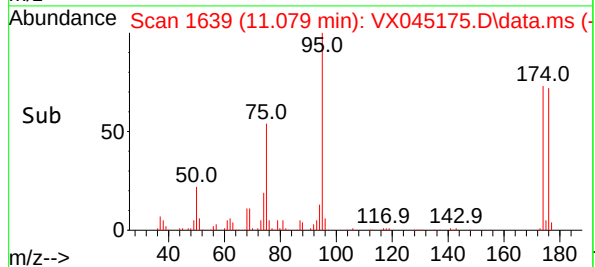
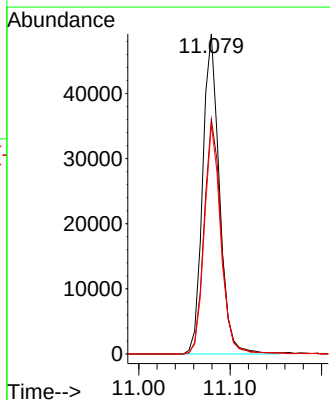
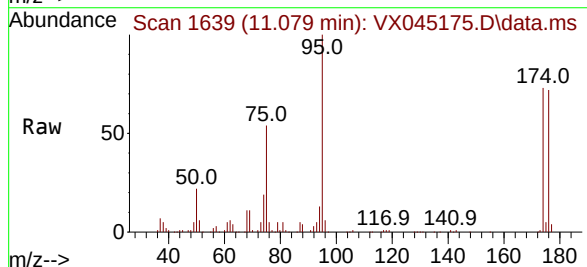
Tgt Ion: 95 Resp: 62513

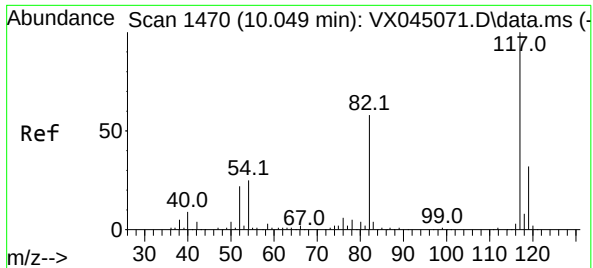
Ion Ratio Lower Upper

95 100

174 74.7 0.0 148.2

176 70.9 0.0 141.4

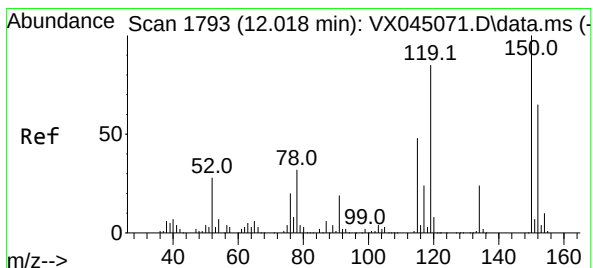
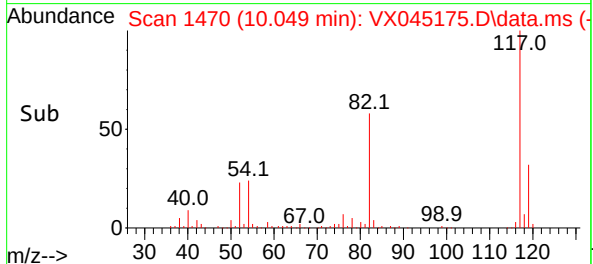
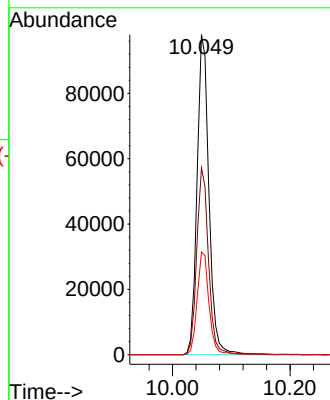
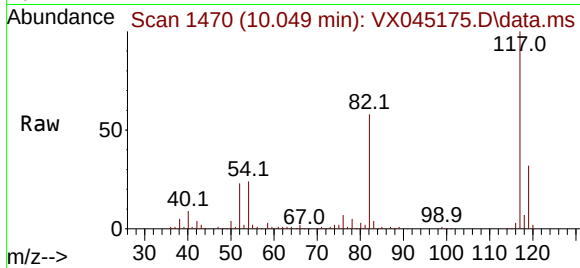




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045175.D
Acq: 06 Mar 2025 17:49

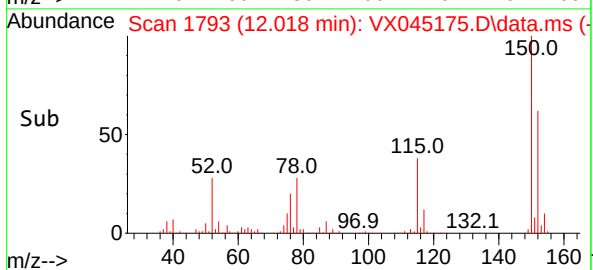
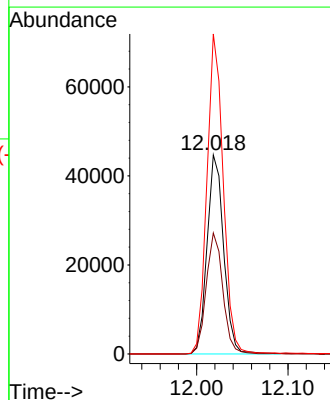
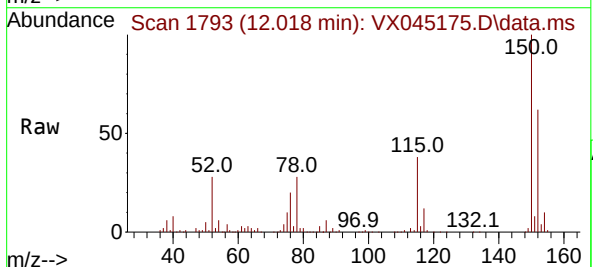
Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB02

Tgt Ion:117 Resp: 137450
Ion Ratio Lower Upper
117 100
82 58.4 46.3 69.5
119 32.1 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045175.D
Acq: 06 Mar 2025 17:49

Tgt Ion:152 Resp: 56384
Ion Ratio Lower Upper
152 100
115 60.7 44.2 132.6
150 158.4 0.0 349.0





CALIBRATION SUMMARY



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG No.: Q1488
 Instrument ID: MSVOA_X Calibration Date(s): 02/28/2025 02/28/2025
 Heated Purge: (Y/N) N Calibration Time(s): 01:27 03:47
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX045068.D		RRF005 = VX045069.D		RRF020 = VX045070.D			
		RRF050 = VX045071.D		RRF100 = VX045072.D		RRF150 = VX045073.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Vinyl Chloride	0.773	0.755	0.774	0.761	0.765	0.758	0.764	1	
1,1-Dichloroethene	0.609	0.620	0.612	0.623	0.620	0.603	0.614	1.3	
2-Butanone	0.476	0.545	0.610	0.579	0.553	0.570	0.555	8.1	
Carbon Tetrachloride	0.463	0.463	0.447	0.468	0.489	0.463	0.465	3	
Chloroform	1.206	1.247	1.278	1.246	1.230	1.225	1.239	2	
Benzene	1.321	1.459	1.491	1.496	1.497	1.424	1.448	4.7	
1,2-Dichloroethane	0.487	0.525	0.545	0.528	0.524	0.520	0.521	3.6	
Trichloroethene	0.319	0.351	0.339	0.341	0.354	0.336	0.340	3.7	
Tetrachloroethene	0.315	0.326	0.319	0.324	0.329	0.309	0.320	2.3	
Chlorobenzene	0.968	1.054	1.090	1.092	1.100	1.045	1.058	4.7	
1,2-Dichloroethane-d4		0.836	0.784	0.757	0.783	0.817	0.795	3.9	
Dibromofluoromethane		0.329	0.335	0.329	0.340	0.338	0.334	1.5	
Toluene-d8		1.237	1.191	1.210	1.219	1.203	1.212	1.4	
4-Bromofluorobenzene		0.383	0.393	0.402	0.410	0.421	0.402	3.7	

* 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_X\Method\
 Method File : 82X022825W.M
 Title : SW846 8260
 Last Update : Fri Feb 28 06:45:16 2025
 Response Via : Initial Calibration

Calibration Files

1 =VX045068.D 5 =VX045069.D 20 =VX045070.D 50 =VX045071.D 100 =VX045072.D 150 =VX045073.D

	Compound	1	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.624	0.646	0.646	0.627	0.626	0.607	0.629	2.38
3) P	Chloromethane	0.755	0.821	0.828	0.753	0.721	0.744	0.770	5.68
4) C	Vinyl Chloride	0.773	0.755	0.774	0.761	0.765	0.758	0.764	1.03#
5) T	Bromomethane		0.337	0.298	0.292	0.284	0.291	0.300	7.01
6) T	Chloroethane	0.373	0.421	0.366	0.373	0.297	0.286	0.352	14.54
7) T	Trichlorofluor...	0.978	1.061	1.050	1.050	0.982	0.948	1.011	4.73
8) T	Diethyl Ether	0.406	0.402	0.409	0.387	0.387	0.383	0.396	2.83
9) T	1,1,2-Trichlor...	0.526	0.613	0.595	0.594	0.596	0.563	0.581	5.41
10) T	Methyl Iodide		0.607	0.758	0.769	0.758	0.739	0.726	9.28
11) T	Tert butyl alc...		0.189	0.161	0.134	0.133	0.136	0.151	16.19
12) CM	1,1-Dichloroet...	0.609	0.620	0.612	0.623	0.620	0.603	0.614	1.27#
13) T	Acrolein		0.162	0.173	0.174	0.178	0.184	0.174	4.53
14) T	Allyl chloride	1.140	1.047	1.104	1.107	1.091	1.072	1.094	2.92
15) T	Acrylonitrile	0.396	0.398	0.432	0.410	0.387	0.399	0.404	3.90
16) T	Acetone	0.414	0.363	0.384	0.351	0.345	0.356	0.369	7.04
17) T	Carbon Disulfide	1.584	1.582	1.587	1.660	1.708	1.698	1.636	3.62
18) T	Methyl Acetate	0.954	0.835	0.903	0.867	0.869	0.899	0.888	4.59
19) T	Methyl tert-bu...	1.955	1.913	2.127	2.083	2.132	2.158	2.061	4.97
20) T	Methylene Chlo...	0.806	0.730	0.752	0.698	0.694	0.706	0.731	5.84
21) T	trans-1,2-Dich...	0.540	0.619	0.603	0.631	0.634	0.616	0.607	5.73
22) T	Diisopropyl ether	1.959	2.156	2.321	2.291	2.310	2.307	2.224	6.46
23) T	Vinyl Acetate	1.486	1.655	1.961	1.973	2.012	2.049	1.856	12.38
24) P	1,1-Dichloroet...	1.200	1.223	1.280	1.242	1.270	1.264	1.247	2.45
25) T	2-Butanone	0.476	0.545	0.610	0.579	0.553	0.570	0.555	8.09
26) T	2,2-Dichloropr...	0.519	0.562	0.588	0.597	0.617	0.626	0.585	6.74
27) T	cis-1,2-Dichlo...	0.687	0.746	0.765	0.762	0.767	0.769	0.749	4.21
28) T	Bromochloromet...	0.557	0.633	0.613	0.603	0.563	0.596	0.594	4.97
29) T	Tetrahydrofuran	0.362	0.376	0.398	0.373	0.361	0.368	0.373	3.61
30) C	Chloroform	1.206	1.247	1.278	1.246	1.230	1.225	1.239	1.97#
31) T	Cyclohexane		1.021	1.087	1.108	1.142	1.052	1.082	4.35
32) T	1,1,1-Trichlor...	0.908	0.992	1.009	1.024	1.044	1.025	1.000	4.83
33) S	1,2-Dichloroet...		0.836	0.784	0.757	0.783	0.817	0.795	3.91
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.329	0.335	0.329	0.340	0.338	0.334	1.53
36) T	1,1-Dichloropr...	0.446	0.462	0.444	0.469	0.476	0.455	0.459	2.77
37) T	Ethyl Acetate	0.589	0.538	0.607	0.606	0.609	0.596	0.591	4.53
38) T	Carbon Tetrach...	0.463	0.463	0.447	0.468	0.489	0.463	0.465	2.96
39) T	Methylcyclohexane	0.464	0.530	0.560	0.585	0.607	0.550	0.549	9.07
40) TM	Benzene	1.321	1.459	1.491	1.496	1.497	1.424	1.448	4.72
41) T	Methacrylonitrile	0.284	0.293	0.337	0.340	0.332	0.330	0.319	7.59
42) TM	1,2-Dichloroet...	0.487	0.525	0.545	0.528	0.524	0.520	0.521	3.63
43) T	Isopropyl Acetate	0.675	0.800	0.940	0.929	0.935	0.964	0.874	12.98
44) TM	Trichloroethene	0.319	0.351	0.339	0.341	0.354	0.336	0.340	3.72
45) C	1,2-Dichloropr...	0.354	0.378	0.382	0.371	0.376	0.373	0.372	2.68#
46) T	Dibromomethane	0.236	0.265	0.272	0.269	0.269	0.268	0.263	5.10
47) T	Bromodichlorom...	0.478	0.503	0.536	0.524	0.528	0.528	0.516	4.23
48) T	Methyl methacr...	0.352	0.422	0.460	0.463	0.458	0.475	0.438	10.46
49) T	1,4-Dioxane	0.008	0.009	0.010	0.009	0.009	0.009	0.009	6.46
50) S	Toluene-d8		1.237	1.191	1.210	1.219	1.203	1.212	1.43
51) T	4-Methyl-2-Pen...	0.535	0.570	0.647	0.610	0.579	0.579	0.587	6.52
52) CM	Toluene	0.716	0.872	0.892	0.898	0.874	0.845	0.849	8.03#
53) T	t-1,3-Dichloro...	0.304	0.389	0.436	0.469	0.490	0.502	0.431	17.30
54) T	cis-1,3-Dichlo...	0.404	0.463	0.509	0.535	0.555	0.553	0.503	11.80
55) T	1,1,2-Trichlor...	0.346	0.348	0.371	0.356	0.341	0.336	0.350	3.63
56) T	Ethyl methacry...	0.396	0.500	0.562	0.570	0.577	0.586	0.532	13.74

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X022825W.M

57)	T	1,3-Dichloropr...	0.560	0.623	0.643	0.620	0.597	0.588	0.605	4.90
58)	T	2-Chloroethyl ...	0.218	0.239	0.271	0.284	0.273	0.270	0.259	9.71
59)	T	2-Hexanone	0.349	0.412	0.476	0.448	0.431	0.436	0.425	10.08
60)	T	Dibromochlorom...	0.305	0.349	0.390	0.384	0.385	0.380	0.366	9.01
61)	T	1,2-Dibromoethane	0.311	0.352	0.371	0.356	0.355	0.350	0.349	5.73
62)	S	4-Bromofluorob...	0.383	0.393	0.402	0.410	0.421	0.402		3.67
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.315	0.326	0.319	0.324	0.329	0.309	0.320	2.33
65)	PM	Chlorobenzene	0.968	1.054	1.090	1.092	1.100	1.045	1.058	4.68
66)	T	1,1,1,2-Tetrac...	0.337	0.331	0.357	0.356	0.372	0.362	0.352	4.39
67)	C	Ethyl Benzene	1.566	1.794	1.889	1.952	1.972	1.888	1.843	8.11#
68)	T	m/p-Xylenes	0.555	0.672	0.711	0.724	0.715	0.673	0.675	9.27
69)	T	o-Xylene	0.609	0.689	0.702	0.706	0.707	0.670	0.681	5.52
70)	T	Styrene	0.879	1.060	1.170	1.181	1.183	1.134	1.101	10.75
71)	P	Bromoform	0.209	0.234	0.276	0.276	0.300	0.300	0.266	13.94
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.397	4.034	3.999	4.135	4.006	3.845	3.903	6.79
74)	T	N-amyl acetate	1.349	1.578	1.890	1.977	2.078	2.116	1.831	16.62
75)	P	1,1,2,2-Tetrac...	1.395	1.479	1.513	1.419	1.391	1.396	1.432	3.60
76)	T	1,2,3-Trichlor...	1.181	1.201	1.193	1.147	1.131	1.130	1.164	2.73
77)	T	Bromobenzene	0.899	0.947	0.939	0.939	0.910	0.891	0.921	2.57
78)	T	n-propylbenzene	3.451	4.375	4.577	4.805	4.696	4.548	4.409	11.14
79)	T	2-Chlorotoluene	2.788	2.888	2.828	2.869	2.770	2.702	2.808	2.45
80)	T	1,3,5-Trimethy...	2.611	3.211	3.373	3.384	3.224	3.131	3.156	9.01
81)	T	trans-1,4-Dich...	0.268	0.313	0.339	0.376	0.405	0.340		15.78
82)	T	4-Chlorotoluene	2.800	3.015	3.078	3.234	3.140	3.092	3.060	4.80
83)	T	tert-Butylbenzene	3.029	3.256	3.342	3.375	3.292	3.160	3.242	3.96
84)	T	1,2,4-Trimethy...	2.646	3.202	3.380	3.378	3.258	3.188	3.175	8.57
85)	T	sec-Butylbenzene	3.000	3.847	4.137	4.215	4.125	3.978	3.884	11.65
86)	T	p-Isopropyltol...	2.511	2.986	3.266	3.424	3.369	3.275	3.139	10.91
87)	T	1,3-Dichlorobe...	1.502	1.652	1.710	1.668	1.675	1.649	1.643	4.40
88)	T	1,4-Dichlorobe...	1.605	1.702	1.665	1.687	1.669	1.643	1.662	2.06
89)	T	n-Butylbenzene	1.905	2.359	2.788	3.013	3.099	3.057	2.703	17.67
90)	T	Hexachloroethane	0.470	0.498	0.568	0.605	0.633	0.633	0.568	12.30
91)	T	1,2-Dichlorobe...	1.479	1.695	1.735	1.668	1.687	1.622	1.648	5.50
92)	T	1,2-Dibromo-3-...	0.237	0.243	0.285	0.289	0.300	0.320	0.279	11.64
93)	T	1,2,4-Trichlor...	0.668	0.821	0.978	1.009	1.074	1.080	0.938	17.32
94)	T	Hexachlorobuta...	0.356	0.369	0.390	0.392	0.406	0.395	0.385	4.77
95)	T	Naphthalene	2.573	3.115	3.866	3.902	4.091	4.082	3.605	17.21
96)	T	1,2,3-Trichlor...	0.747	0.897	1.032	1.059	1.107	1.096	0.990	14.23

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
 Data File : VX045068.D
 Acq On : 28 Feb 2025 01:27
 Operator : JC/MD
 Sample : VSTDIC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/28/2025
 Supervised By : Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 06:28:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:18:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	102761	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	188642	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	159886	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	64845	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount	50.000	Range	74 - 125	Recovery	=	0.000%#
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount	50.000	Range	75 - 124	Recovery	=	0.000%#
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount	50.000	Range	86 - 113	Recovery	=	0.000%#
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount	50.000	Range	77 - 121	Recovery	=	0.000%#
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	1282	1.007	ug/l	90
3) Chloromethane	1.301	50	1552	0.975	ug/l	91
4) Vinyl Chloride	1.368	62	1588	1.008	ug/l #	85
6) Chloroethane	1.673	64	766m	0.992	ug/l	
7) Trichlorofluoromethane	1.880	101	2011	0.957	ug/l	97
8) Diethyl Ether	2.130	74	835	1.045	ug/l	80
9) 1,1,2-Trichlorotrifluo...	2.319	101	1081	0.884	ug/l	87
12) 1,1-Dichloroethene	2.313	96	1251	0.991	ug/l	92
14) Allyl chloride	2.660	41	2343	1.055	ug/l	93
15) Acrylonitrile	3.075	53	4067	4.931	ug/l	99
16) Acetone	2.380	43	4259	5.635	ug/l	100
17) Carbon Disulfide	2.502	76	3256	0.956	ug/l #	92
18) Methyl Acetate	2.703	43	1960	1.066	ug/l	93
19) Methyl tert-butyl Ether	3.111	73	4017	0.943	ug/l	91
20) Methylene Chloride	2.782	84	1656	1.095	ug/l	98
21) trans-1,2-Dichloroethene	3.093	96	1109	0.869	ug/l	91
22) Diisopropyl ether	3.764	45	4026	0.871	ug/l #	80
23) Vinyl Acetate	3.727	43	15271	3.971	ug/l	97
24) 1,1-Dichloroethane	3.605	63	2467	0.958	ug/l #	83
25) 2-Butanone	4.587	43	4894	4.252	ug/l	96
26) 2,2-Dichloropropane	4.471	77	1066	0.872	ug/l #	56
27) cis-1,2-Dichloroethene	4.501	96	1412	0.902	ug/l #	19
28) Bromochloromethane	4.885	49	1144	0.958	ug/l #	54
29) Tetrahydrofuran	5.032	42	3719	4.809	ug/l #	34
30) Chloroform	5.093	83	2478	0.978	ug/l	92
32) 1,1,1-Trichloroethane	5.373	97	1867	0.893	ug/l #	52
36) 1,1-Dichloropropene	5.690	75	1681	0.967	ug/l #	84
37) Ethyl Acetate	4.739	43	2223m	0.988	ug/l	
38) Carbon Tetrachloride	5.672	117	1747m	0.987	ug/l	
39) Methylcyclohexane	7.385	83	1750	0.831	ug/l	88
40) Benzene	6.031	78	4984	0.907	ug/l	99
41) Methacrylonitrile	4.958	41	1072m	0.879	ug/l	
42) 1,2-Dichloroethane	6.099	62	1837	0.924	ug/l	78
43) Isopropyl Acetate	6.355	43	2545	0.767	ug/l #	95
44) Trichloroethene	7.129	130	1202	0.933	ug/l	65
45) 1,2-Dichloropropane	7.434	63	1334	0.971	ug/l #	82

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
 Data File : VX045068.D
 Acq On : 28 Feb 2025 01:27
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/28/2025
 Supervised By : Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 06:28:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:18:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	7.586	93	891	0.897	ug/l	92
47) Bromodichloromethane	7.818	83	1802	0.927	ug/l #	85
48) Methyl methacrylate	7.714	41	1328m	0.825	ug/l	
49) 1,4-Dioxane	7.684	88	639	18.144	ug/l #	81
51) 4-Methyl-2-Pentanone	8.574	43	10091	4.567	ug/l	95
52) Toluene	8.720	92	2700	0.841	ug/l	97
53) t-1,3-Dichloropropene	8.994	75	1147	0.700	ug/l #	85
54) cis-1,3-Dichloropropene	8.373	75	1525	0.804	ug/l #	90
55) 1,1,2-Trichloroethane	9.153	97	1306	1.004	ug/l #	90
56) Ethyl methacrylate	9.135	69	1494	0.748	ug/l #	93
57) 1,3-Dichloropropane	9.311	76	2112	0.920	ug/l	97
58) 2-Chloroethyl Vinyl ether	8.251	63	4115	4.320	ug/l	95
59) 2-Hexanone	9.439	43	6582	4.153	ug/l	96
60) Dibromochloromethane	9.519	129	1152	0.835	ug/l	98
61) 1,2-Dibromoethane	9.610	107	1174	0.890	ug/l	97
64) Tetrachloroethene	9.275	164	1006	0.986	ug/l #	88
65) Chlorobenzene	10.080	112	3094	0.908	ug/l	90
66) 1,1,1,2-Tetrachloroethane	10.159	131	1078	0.978	ug/l #	65
67) Ethyl Benzene	10.195	91	5008	0.846	ug/l #	85
68) m/p-Xylenes	10.305	106	3552	1.630	ug/l	97
69) o-Xylene	10.640	106	1949	0.891	ug/l	95
70) Styrene	10.665	104	2810	0.802	ug/l	97
71) Bromoform	10.799	173	667	0.768	ug/l #	92
73) Isopropylbenzene	10.964	105	4405	0.858	ug/l	96
74) N-amyl acetate	10.854	43	1750	0.732	ug/l #	87
75) 1,1,2,2-Tetrachloroethane	11.213	83	1809	0.954	ug/l	88
76) 1,2,3-Trichloropropane	11.244	75	1531m	1.015	ug/l	
77) Bromobenzene	11.201	156	1166	0.972	ug/l	91
78) n-propylbenzene	11.305	91	4475	0.773	ug/l	97
79) 2-Chlorotoluene	11.366	91	3616	0.986	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	3386	0.815	ug/l	94
82) 4-Chlorotoluene	11.457	91	3631	0.904	ug/l	99
83) tert-Butylbenzene	11.713	119	3928	0.929	ug/l	96
84) 1,2,4-Trimethylbenzene	11.756	105	3432	0.827	ug/l	95
85) sec-Butylbenzene	11.890	105	3891	0.752	ug/l	100
86) p-Isopropyltoluene	12.012	119	3257	0.797	ug/l	94
87) 1,3-Dichlorobenzene	11.976	146	1948	0.913	ug/l	96
88) 1,4-Dichlorobenzene	12.043	146	2082m	0.962	ug/l	
89) n-Butylbenzene	12.335	91	2470	0.691	ug/l	93
90) Hexachloroethane	12.536	117	609	0.805	ug/l	94
91) 1,2-Dichlorobenzene	12.335	146	1918	0.890	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	308	0.859	ug/l	82
93) 1,2,4-Trichlorobenzene	13.591	180	866	0.706	ug/l	93
94) Hexachlorobutadiene	13.725	225	462	0.917	ug/l	94
95) Naphthalene	13.780	128	3337	0.707	ug/l #	94
96) 1,2,3-Trichlorobenzene	13.963	180	969	0.759	ug/l	93

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

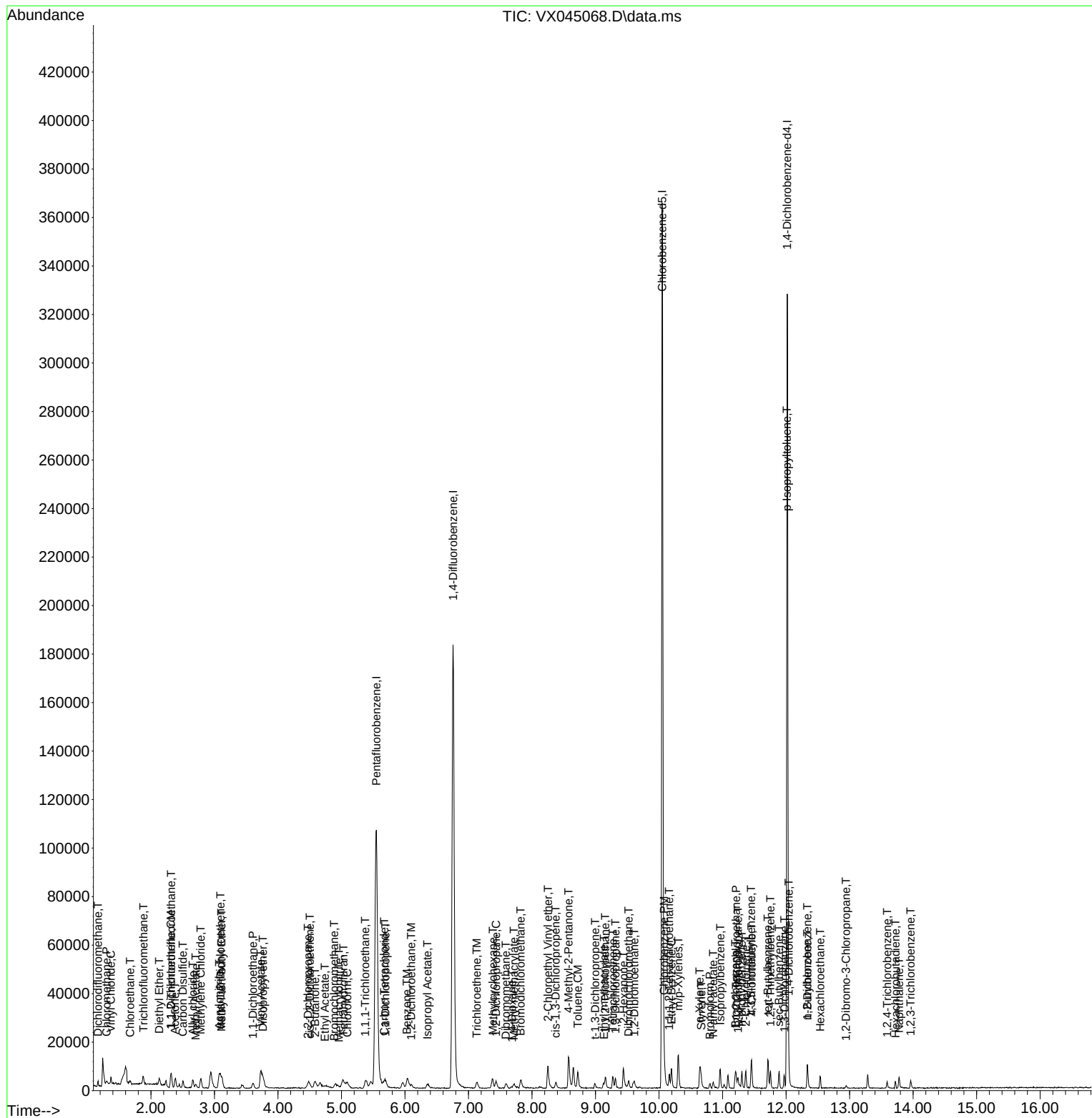
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
 Data File : VX045068.D
 Acq On : 28 Feb 2025 01:27
 Operator : JC/MD
 Sample : VSTDIC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

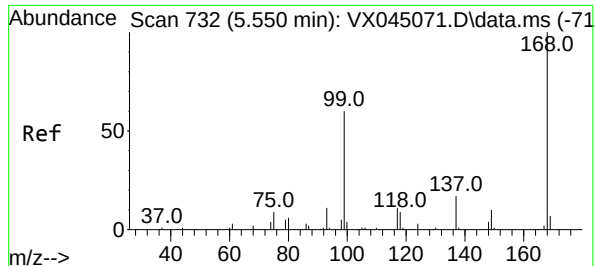
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC001

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
 Supervised By :Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 06:28:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:18:23 2025
 Response via : Initial Calibration





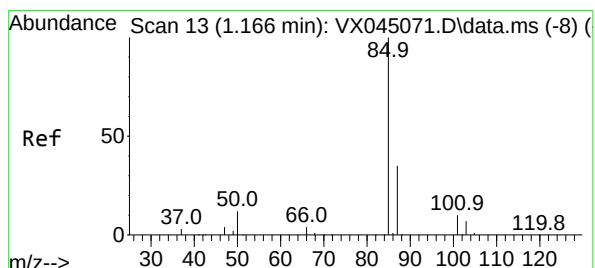
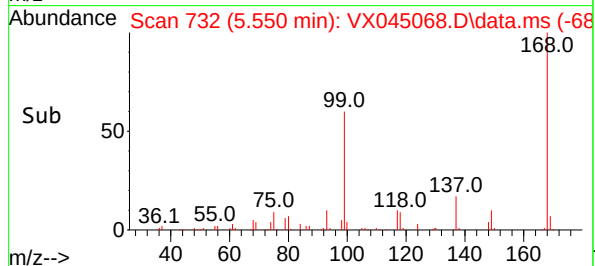
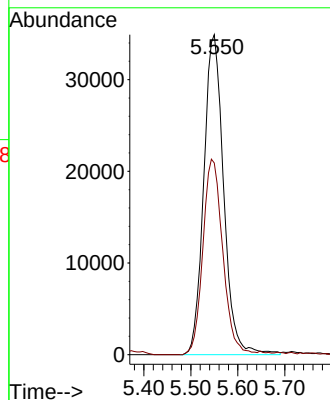
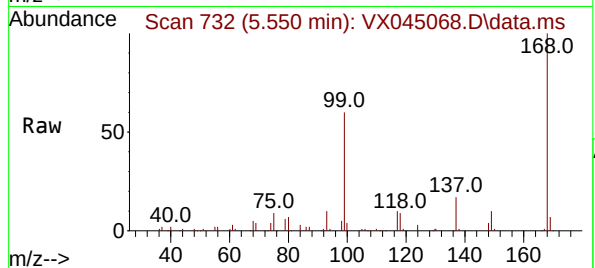
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

Tgt Ion:168 Resp: 10276
Ion Ratio Lower Upper
168 100
99 59.9 48.2 72.4

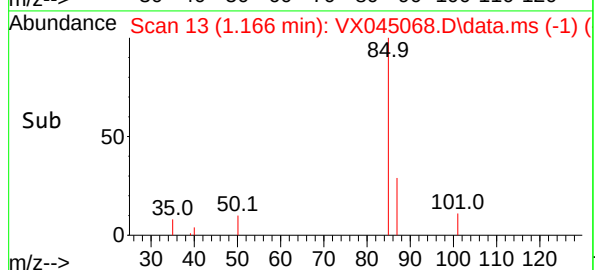
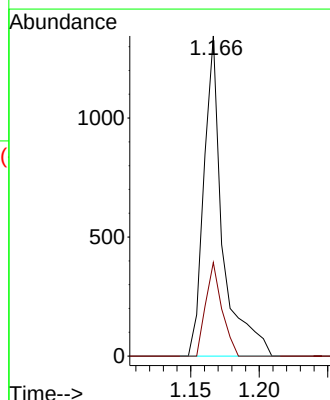
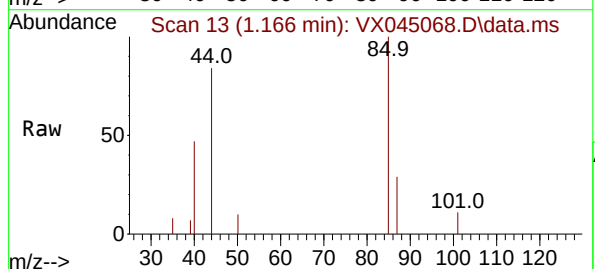
Manual Integrations
APPROVED

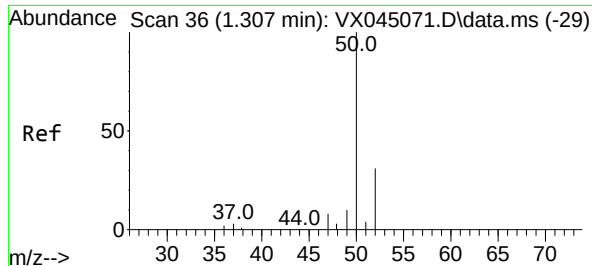
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#2
Dichlorodifluoromethane
Concen: 1.007 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 85 Resp: 1282
Ion Ratio Lower Upper
85 100
87 29.2 17.4 52.3





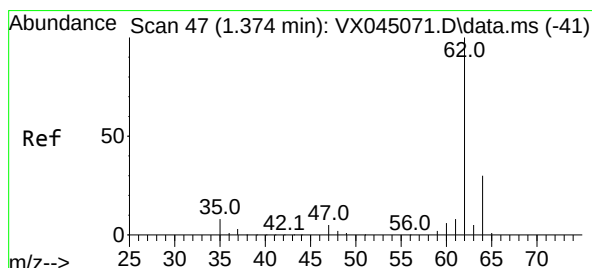
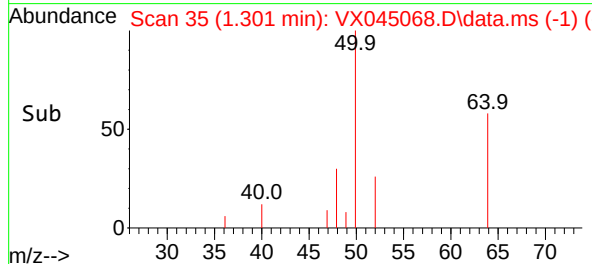
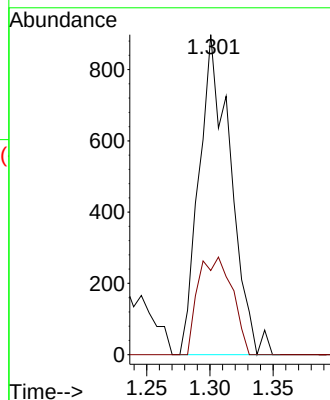
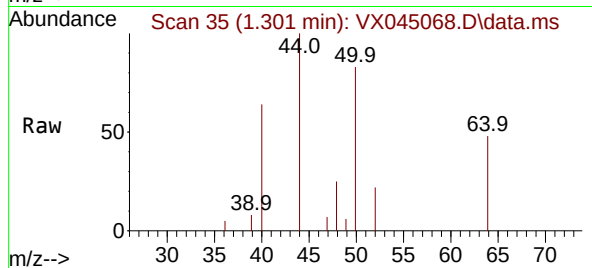
#3
Chloromethane
Concen: 0.975 ug/l
RT: 1.301 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

Tgt Ion: 50 Resp: 1552
Ion Ratio Lower Upper
50 100
52 26.3 25.0 37.4

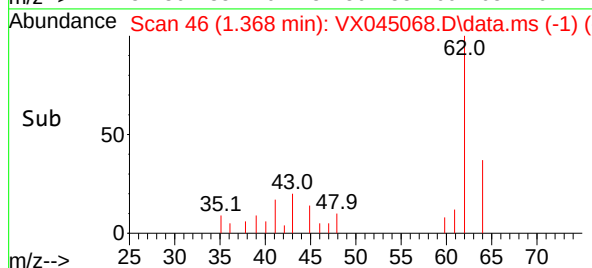
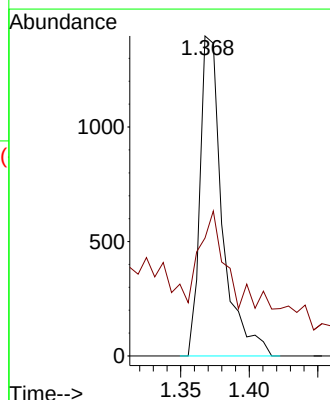
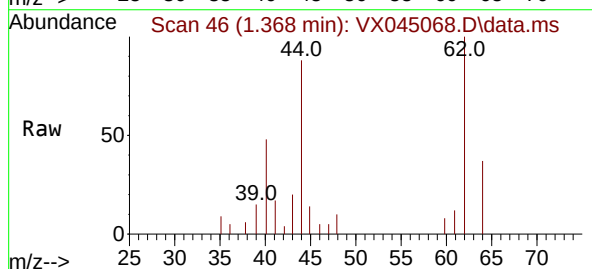
Manual Integrations
APPROVED

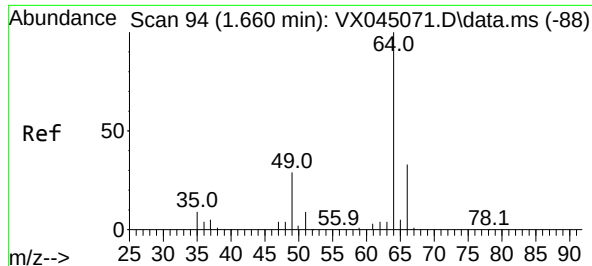
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#4
Vinyl Chloride
Concen: 1.008 ug/l
RT: 1.368 min Scan# 46
Delta R.T. -0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

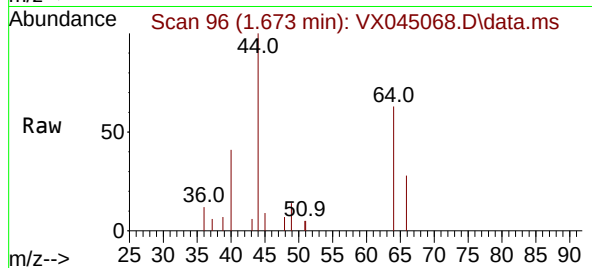
Tgt Ion: 62 Resp: 1588
Ion Ratio Lower Upper
62 100
64 22.0 24.3 36.5#





#6
Chloroethane
Concen: 0.992 ug/l m
RT: 1.673 min Scan# 94
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

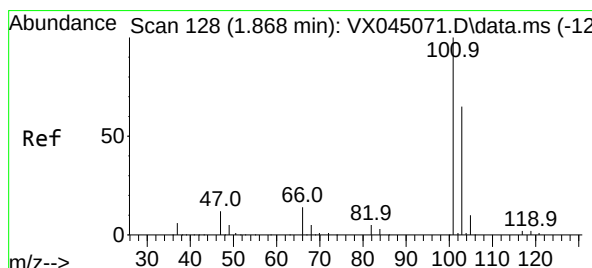
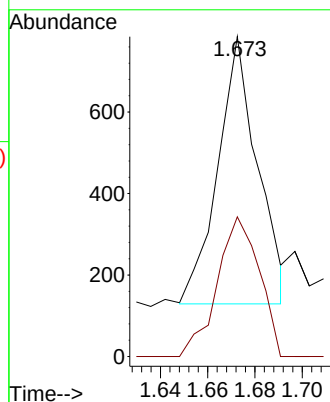
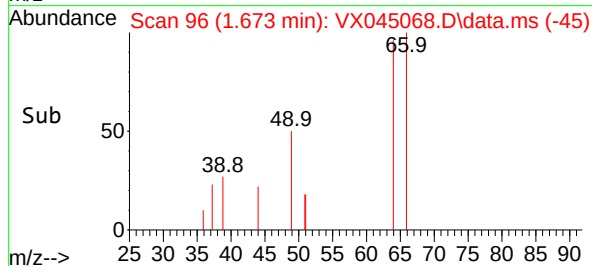
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 64 Resp: 760
Ion Ratio Lower Upper
64 100
66 43.7 26.7 40.1

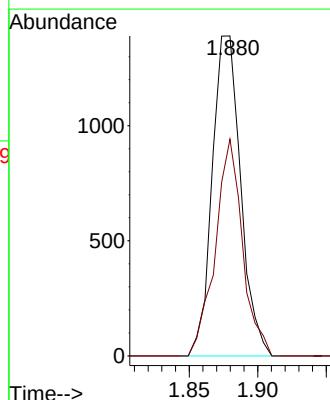
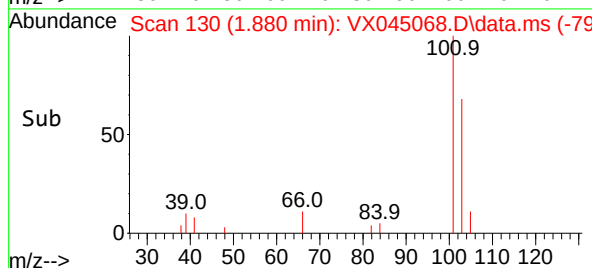
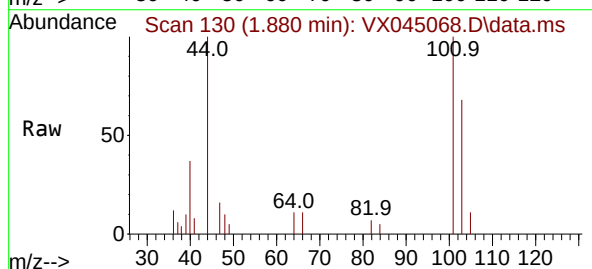
Manual Integrations
APPROVED

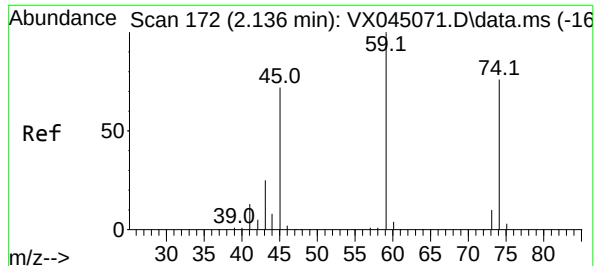
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#7
Trichlorofluoromethane
Concen: 0.957 ug/l
RT: 1.880 min Scan# 130
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

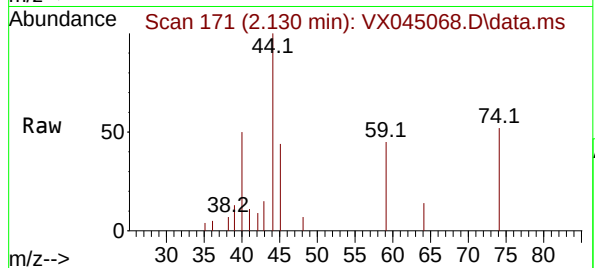
Tgt Ion:101 Resp: 2011
Ion Ratio Lower Upper
101 100
103 67.8 52.1 78.1





#8
Diethyl Ether
Concen: 1.045 ug/l
RT: 2.130 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

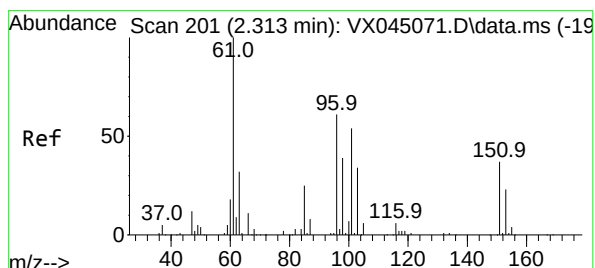
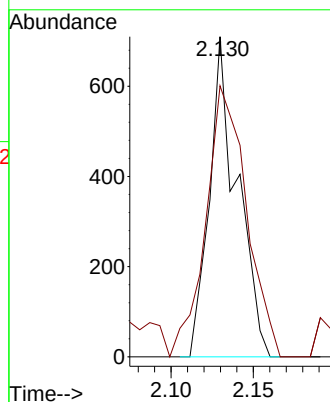
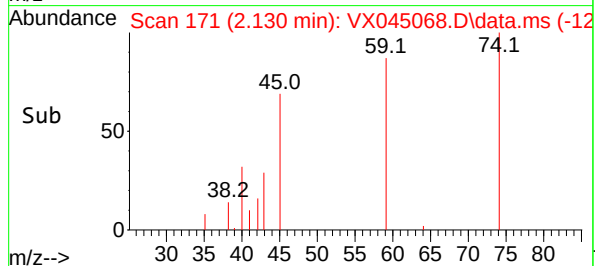
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



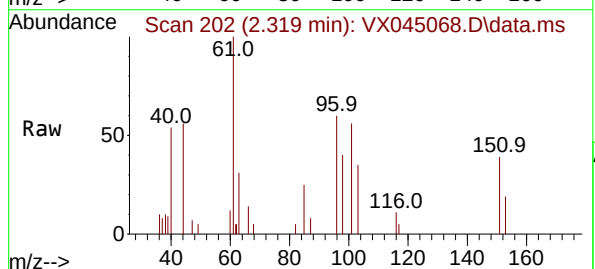
Tgt Ion: 74 Resp: 839
Ion Ratio Lower Upper
74 100
45 123.5 51.5 154.5

Manual Integrations
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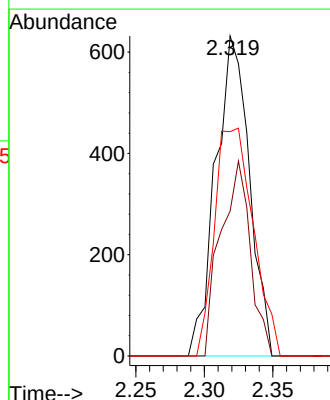
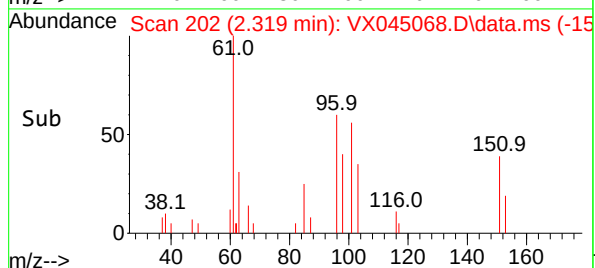
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

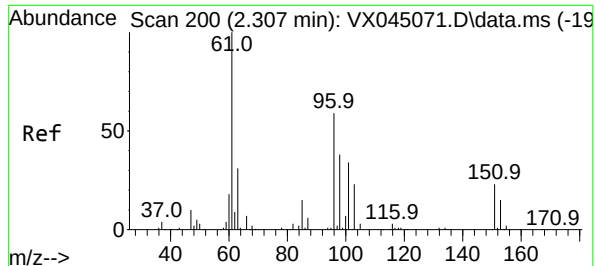


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.884 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27



Tgt Ion:101 Resp: 1081
Ion Ratio Lower Upper
101 100
85 53.7 36.2 54.4
151 81.9 56.4 84.6





#12

1,1-Dichloroethene

Concen: 0.991 ug/l

RT: 2.313 min Scan# 201

Delta R.T. 0.006 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 96 Resp: 125

Ion Ratio Lower Upper

96 100

61 157.4 134.6 202.0

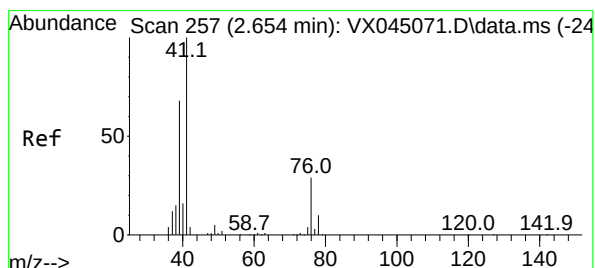
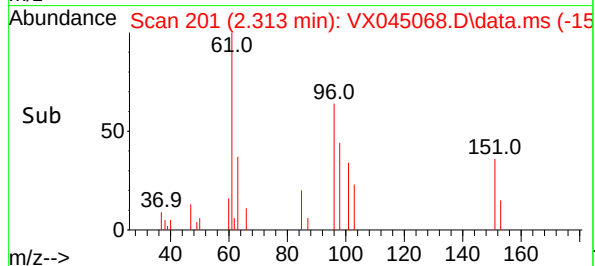
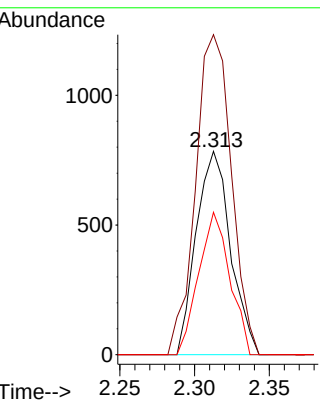
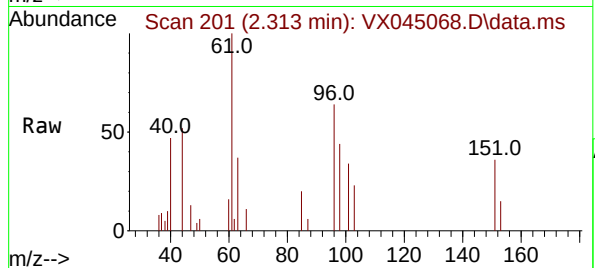
98 70.0 51.0 76.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#14

Allyl chloride

Concen: 1.055 ug/l

RT: 2.660 min Scan# 258

Delta R.T. 0.006 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

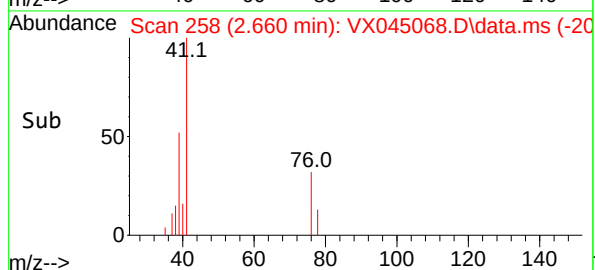
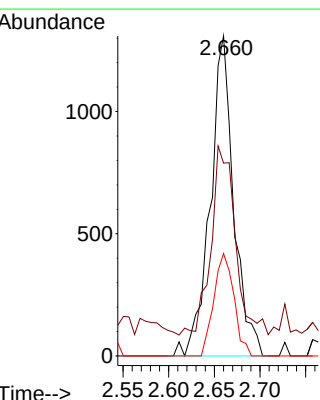
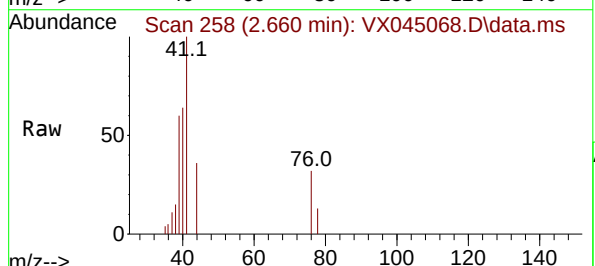
Tgt Ion: 41 Resp: 2343

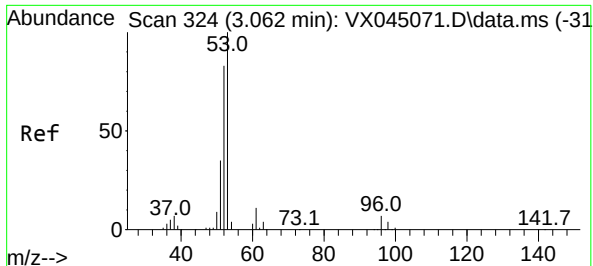
Ion Ratio Lower Upper

41 100

39 62.3 53.8 80.8

76 27.4 25.2 37.8





#15

Acrylonitrile

Concen: 4.931 ug/l

RT: 3.075 min Scan# 31

Delta R.T. 0.012 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Tgt Ion:	53	Resp:	406
Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.2	99.2
51	34.6	29.0	43.4

Instrument :

MSVOA_X

ClientSampleId :

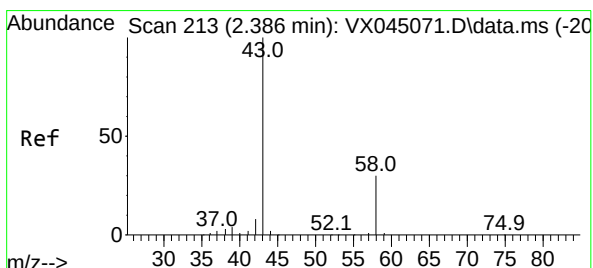
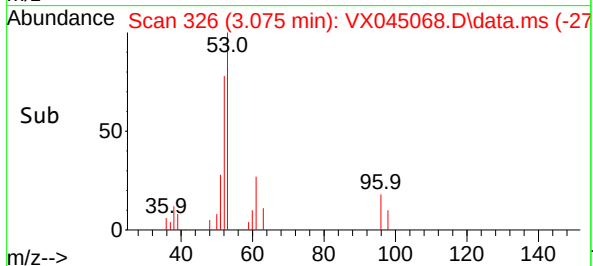
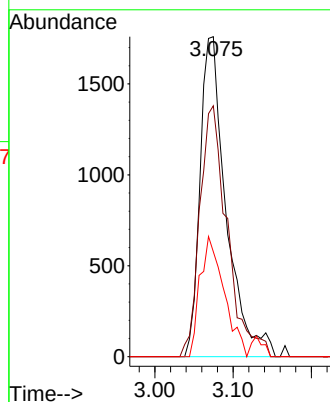
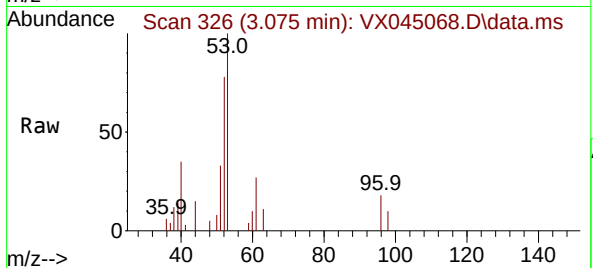
VSTDIC001

Manual Integrations

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Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#16

Acetone

Concen: 5.635 ug/l

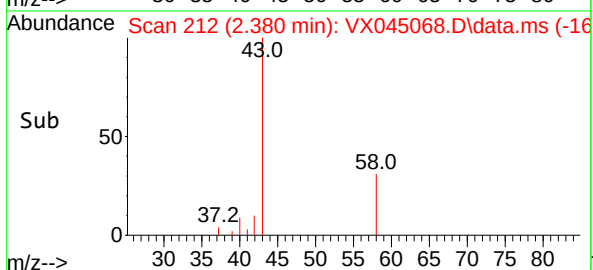
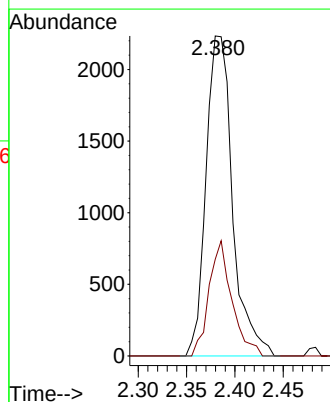
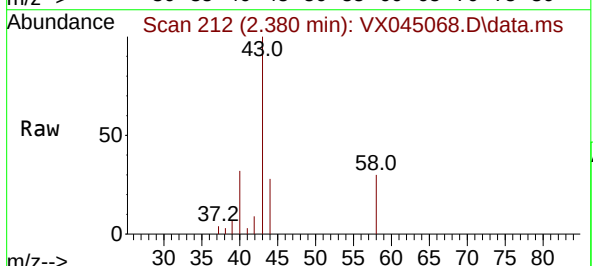
RT: 2.380 min Scan# 212

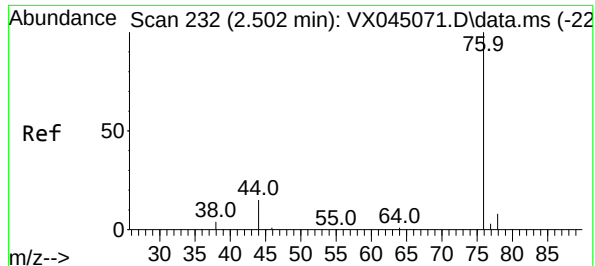
Delta R.T. -0.006 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Tgt Ion:	43	Resp:	4259
Ion	Ratio	Lower	Upper
43	100		
58	30.2	24.2	36.4





#17

Carbon Disulfide

Concen: 0.956 ug/l

RT: 2.502 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 76 Resp: 3250

Ion Ratio Lower Upper

76 100

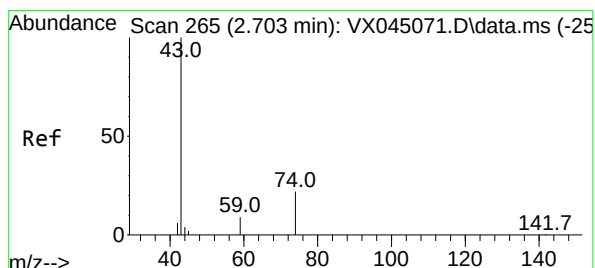
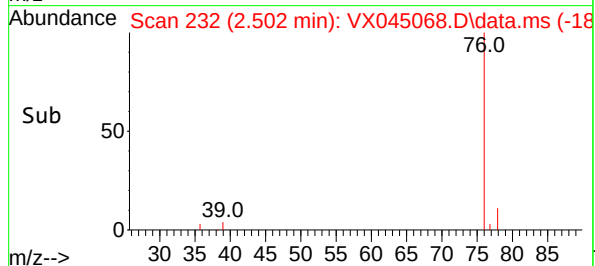
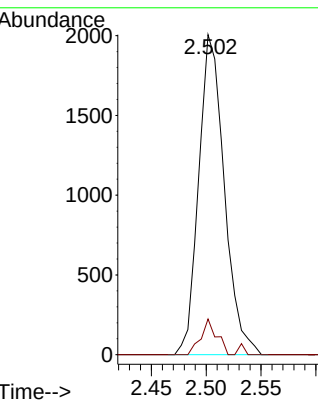
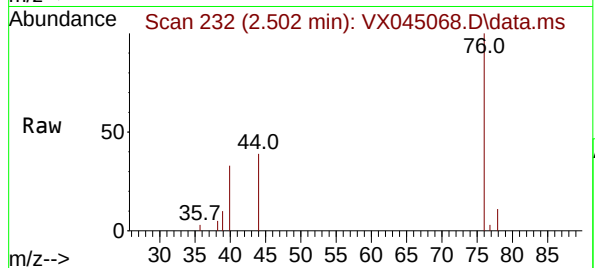
78 11.2 6.6 9.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#18

Methyl Acetate

Concen: 1.066 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX045068.D

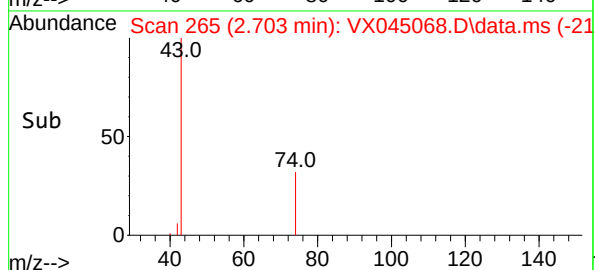
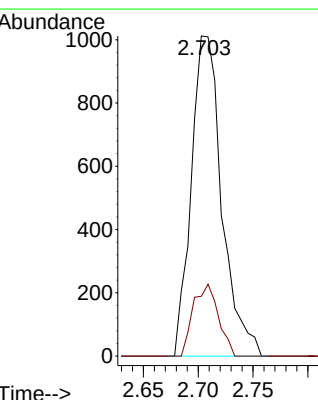
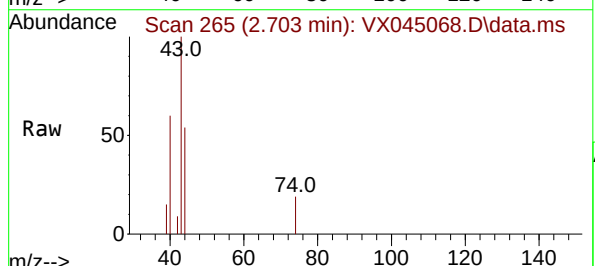
Acq: 28 Feb 2025 01:27

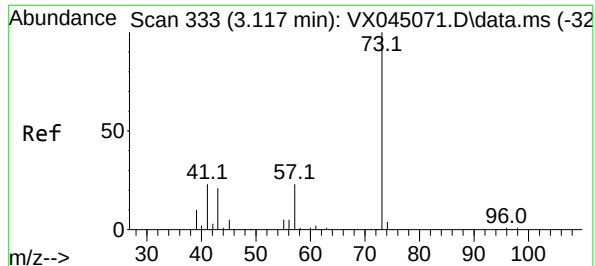
Tgt Ion: 43 Resp: 1960

Ion Ratio Lower Upper

43 100

74 18.5 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 0.943 ug/l

RT: 3.111 min Scan# 311

Delta R.T. -0.006 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 73 Resp: 401

Ion Ratio Lower Upper

73 100

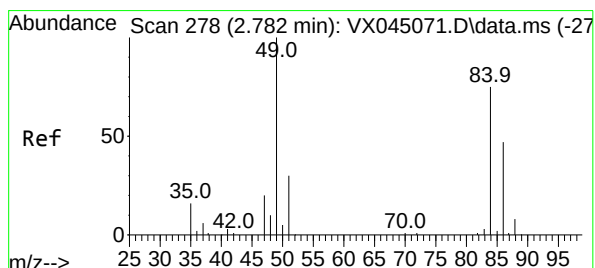
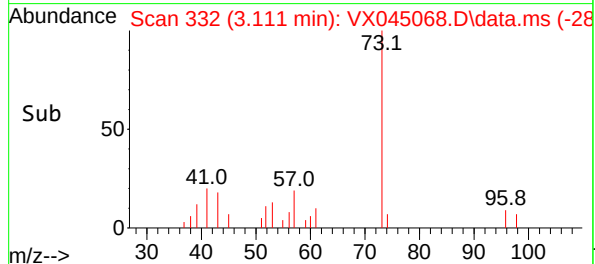
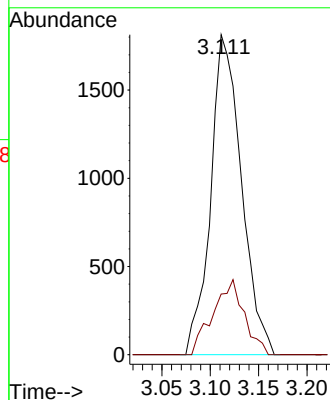
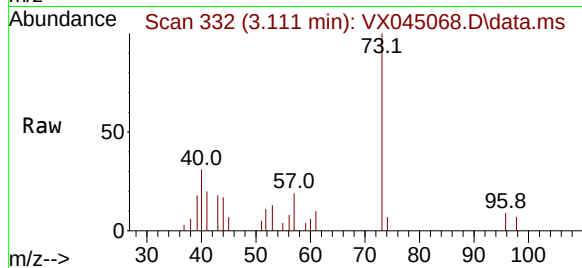
57 19.0 18.5 27.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#20

Methylene Chloride

Concen: 1.095 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Tgt Ion: 84 Resp: 1656

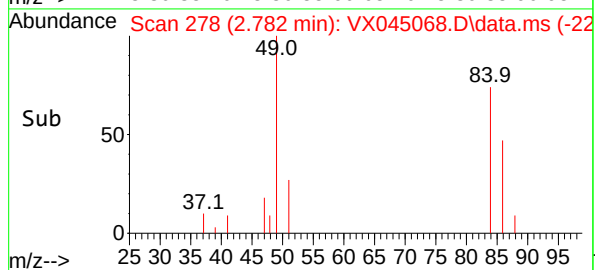
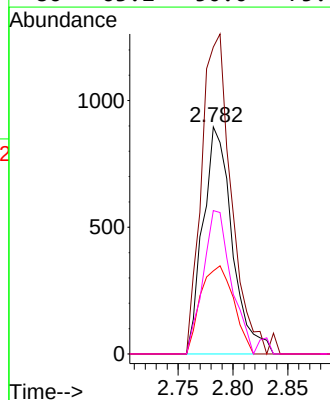
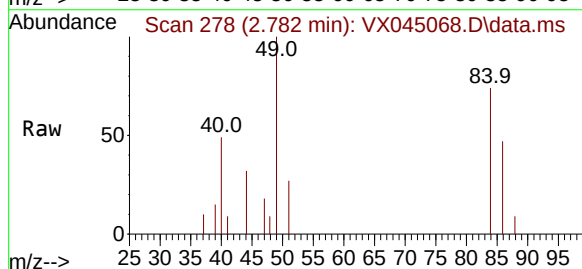
Ion Ratio Lower Upper

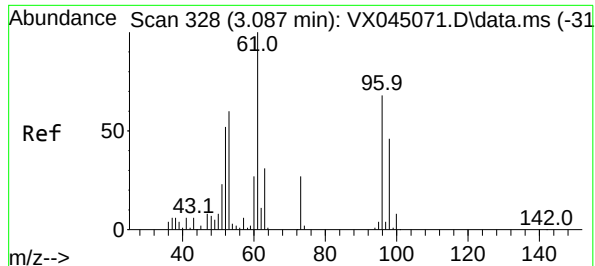
84 100

49 135.2 106.5 159.7

51 36.6 32.1 48.1

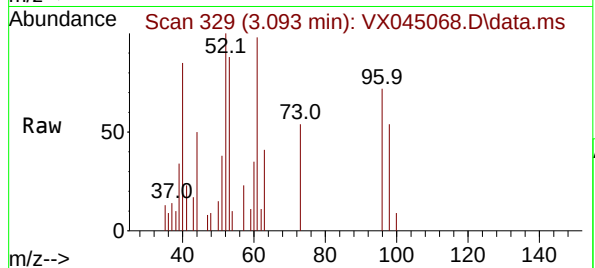
86 63.2 50.0 75.0





#21
trans-1,2-Dichloroethene
Concen: 0.869 ug/l
RT: 3.093 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

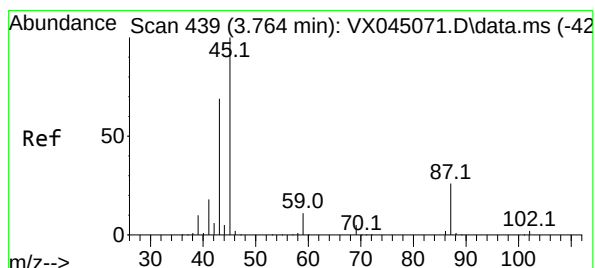
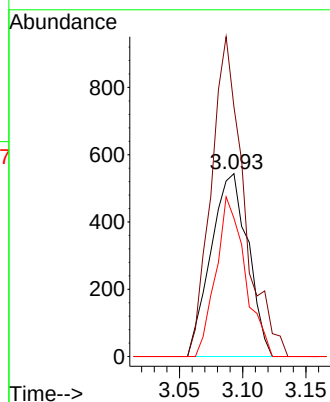
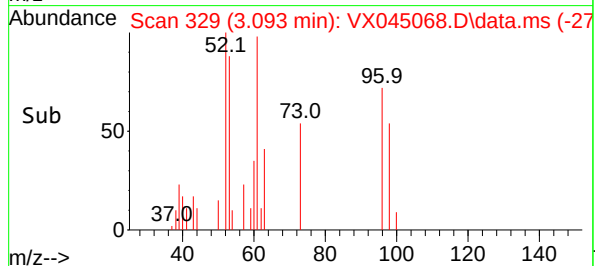
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 96 Resp: 1109
Ion Ratio Lower Upper
96 100
61 136.4 117.0 175.4
98 75.6 53.4 80.2

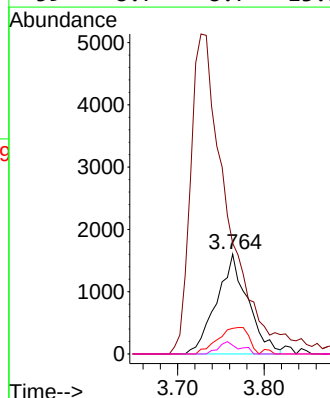
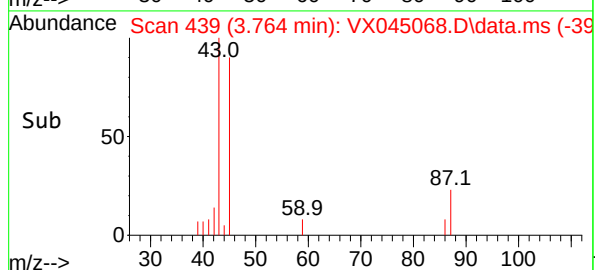
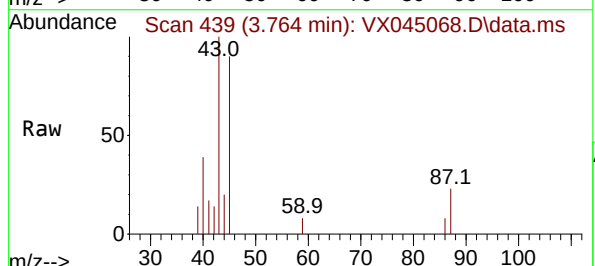
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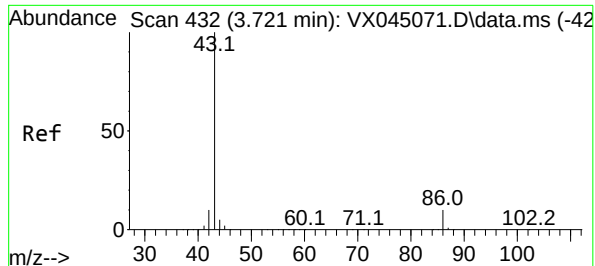
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#22
Diisopropyl ether
Concen: 0.871 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 45 Resp: 4026
Ion Ratio Lower Upper
45 100
43 91.9 54.9 82.3#
87 25.6 21.0 31.4
59 8.7 8.7 13.1





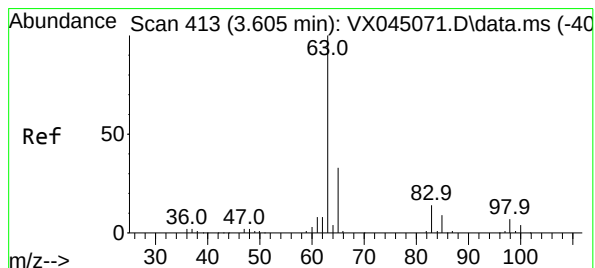
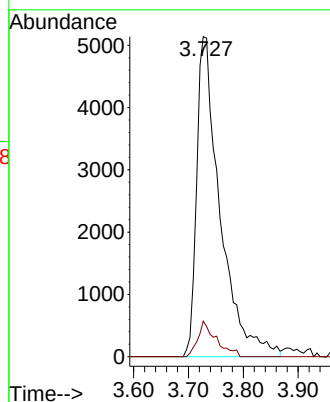
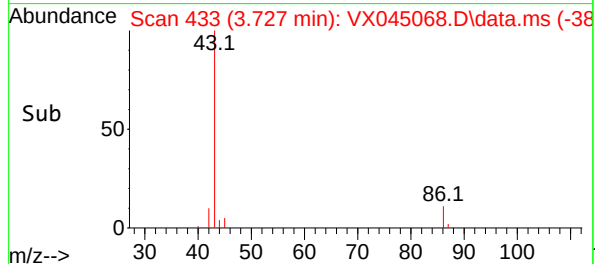
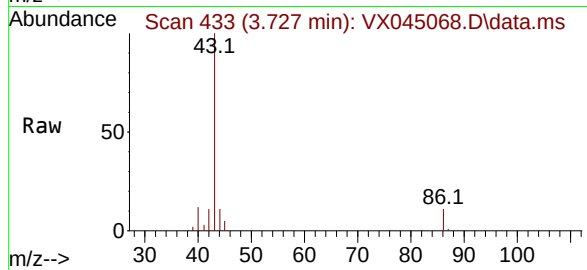
#23
Vinyl Acetate
Concen: 3.971 ug/l
RT: 3.727 min Scan# 413
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 1527
Ion Ratio Lower Upper
43 100
86 11.1 8.1 12.1

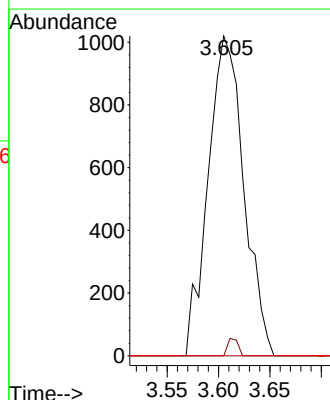
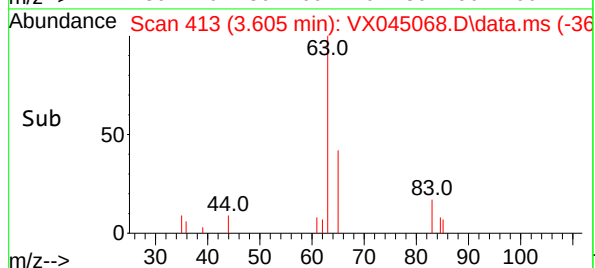
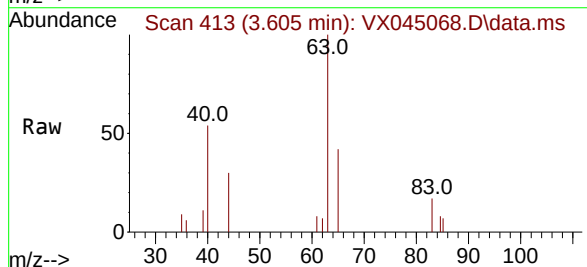
Manual Integrations
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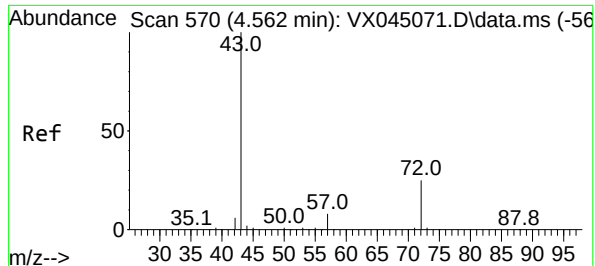
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#24
1,1-Dichloroethane
Concen: 0.958 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 63 Resp: 2467
Ion Ratio Lower Upper
63 100
98 0.0 3.4 10.2#
100 0.0 2.1 6.5#





#25

2-Butanone

Concen: 4.252 ug/l

RT: 4.587 min Scan# 51

Delta R.T. 0.024 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 43 Resp: 4894

Ion Ratio Lower Upper

43 100

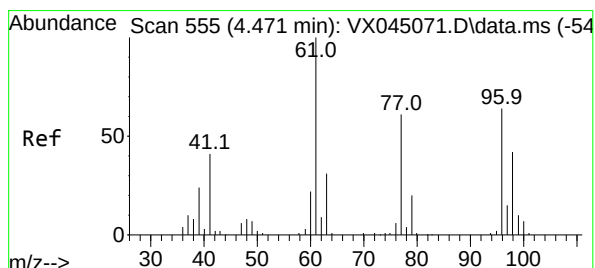
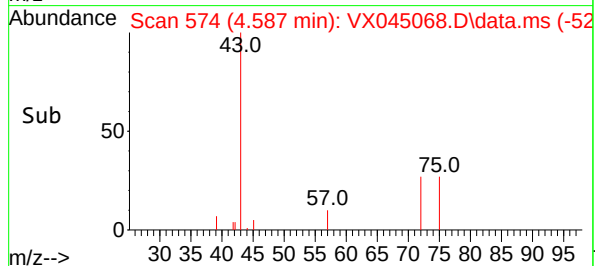
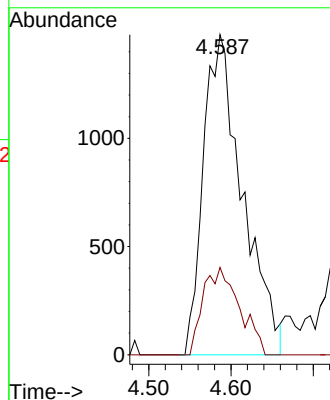
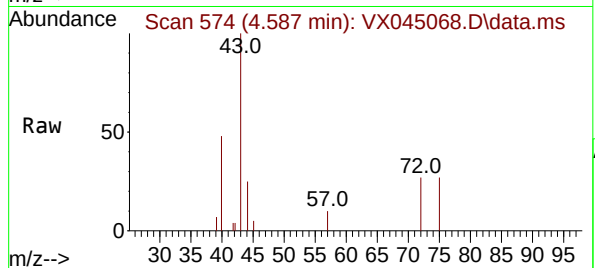
72 27.2 20.0 30.0

Manual Integrations

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Supervised By :Mahesh Dadoda 02/28/2025



#26

2,2-Dichloropropane

Concen: 0.872 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.000 min

Lab File: VX045068.D

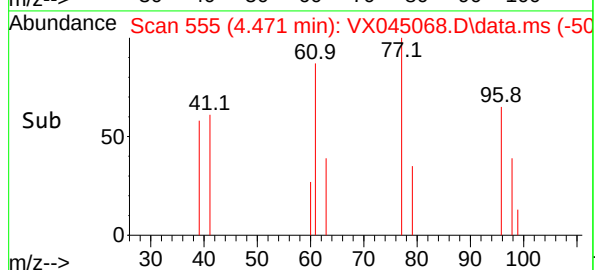
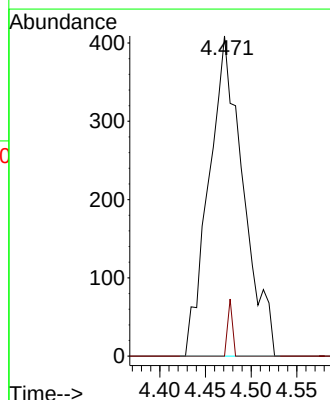
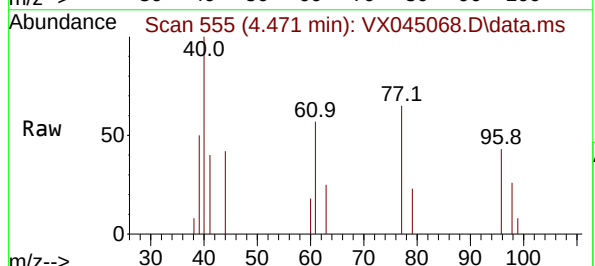
Acq: 28 Feb 2025 01:27

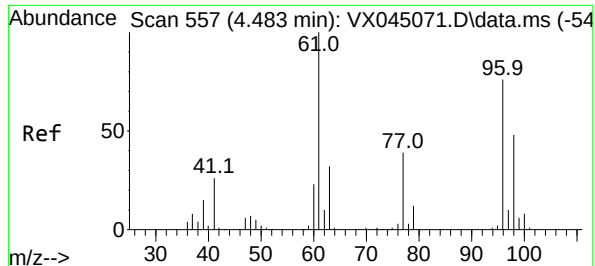
Tgt Ion: 77 Resp: 1066

Ion Ratio Lower Upper

77 100

97 2.5 12.4 37.0#





#27

cis-1,2-Dichloroethene

Concen: 0.902 ug/l

RT: 4.501 min Scan# 557

Delta R.T. 0.018 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 96 Resp: 141

Ion Ratio Lower Upper

96 100

61 0.0 0.0 283.2

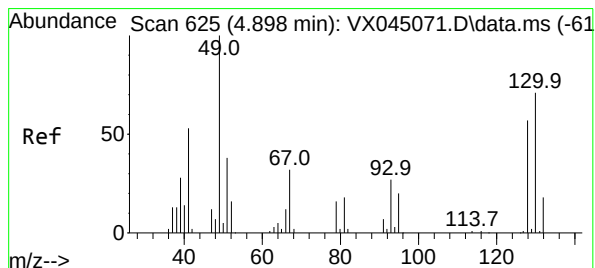
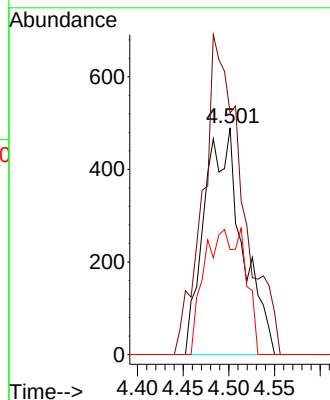
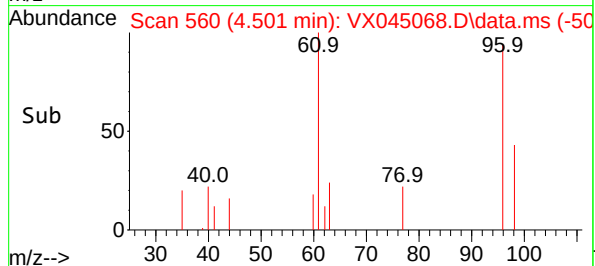
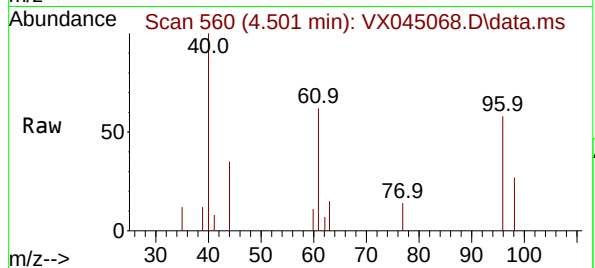
98 59.1 0.0 128.0

Manual Integrations

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Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#28

Bromochloromethane

Concen: 0.958 ug/l

RT: 4.885 min Scan# 623

Delta R.T. -0.012 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

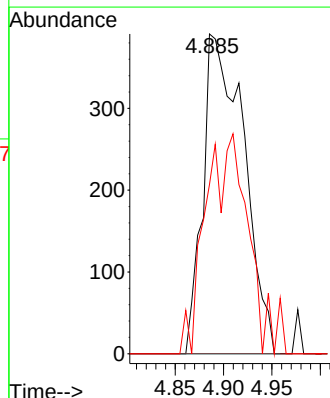
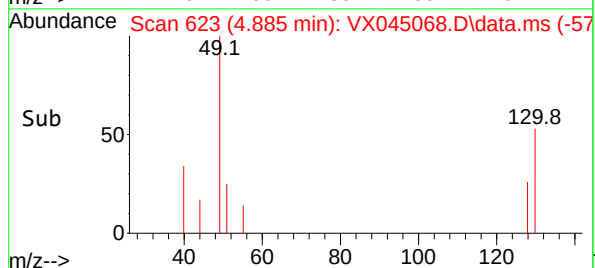
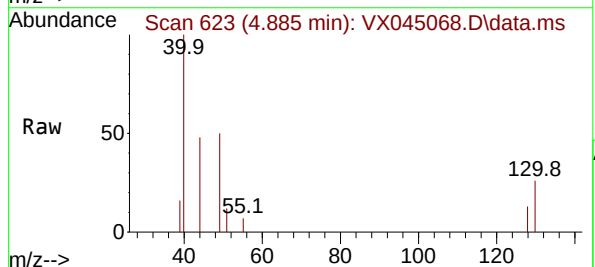
Tgt Ion: 49 Resp: 1144

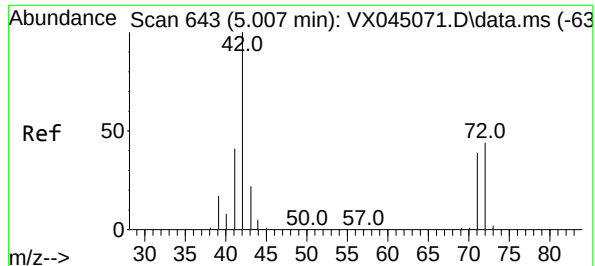
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.4

130 31.5 56.1 84.1#





#29

Tetrahydrofuran

Concen: 4.809 ug/l

RT: 5.032 min Scan# 64

Delta R.T. 0.024 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

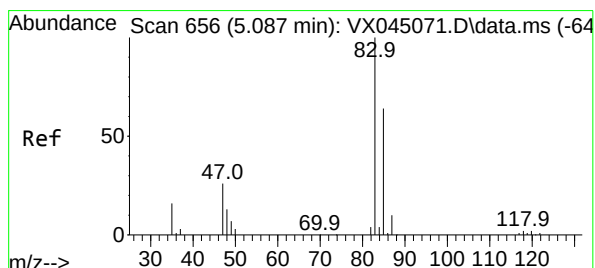
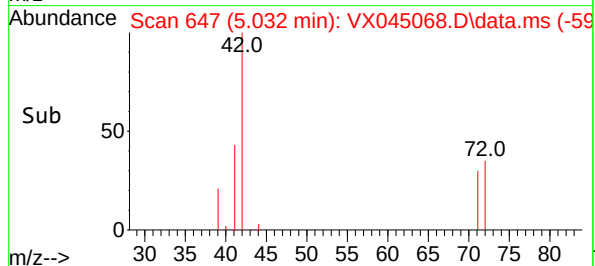
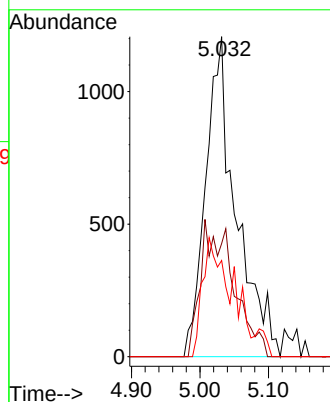
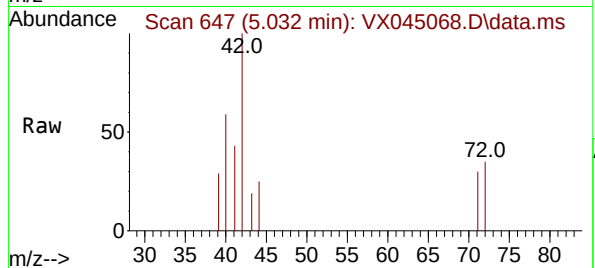
Tgt Ion:	42	Resp:	3719
Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.1	51.1
71	0.0	31.4	47.0

Manual Integrations

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Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#30

Chloroform

Concen: 0.978 ug/l

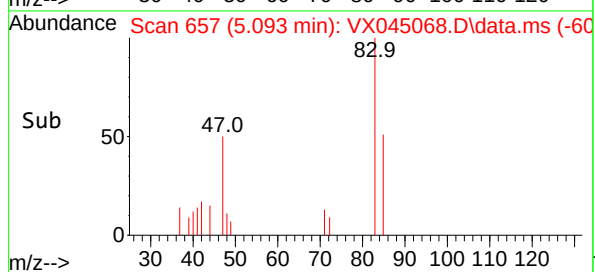
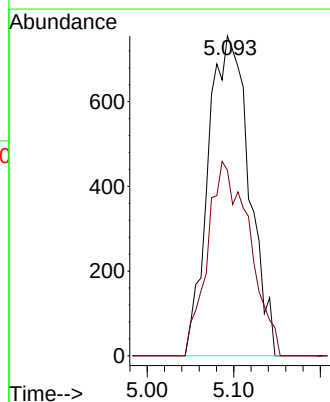
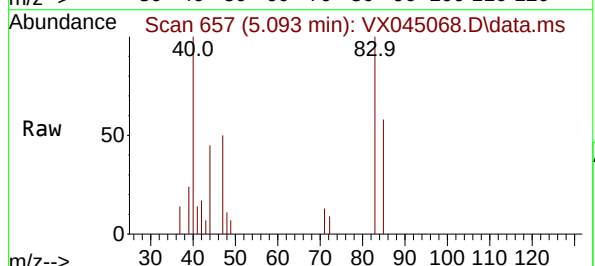
RT: 5.093 min Scan# 657

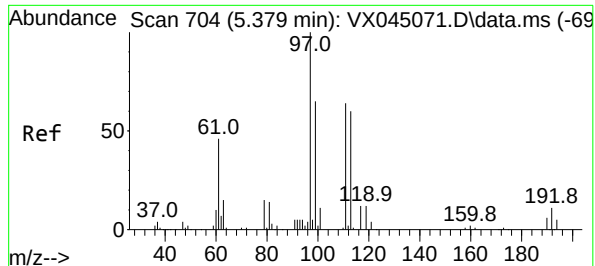
Delta R.T. 0.006 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Tgt Ion:	83	Resp:	2478
Ion	Ratio	Lower	Upper
83	100		
85	58.0	51.4	77.2





#32

1,1,1-Trichloroethane

Concen: 0.893 ug/l

RT: 5.373 min Scan# 70

Delta R.T. -0.006 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 186

Ion Ratio Lower Upper

97 100

99 0.0 51.6 77.4

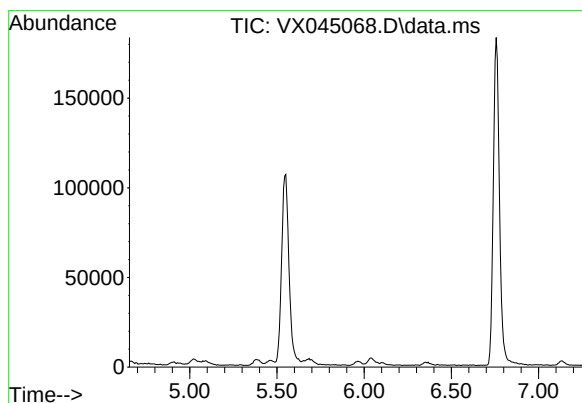
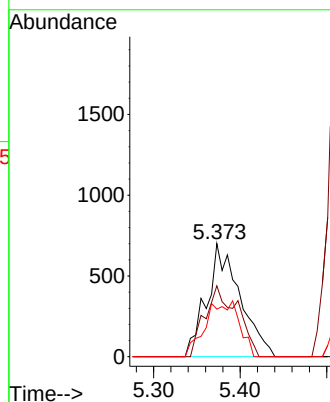
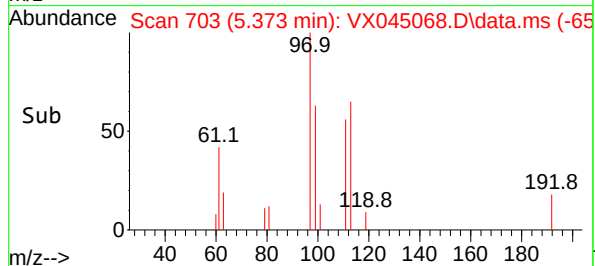
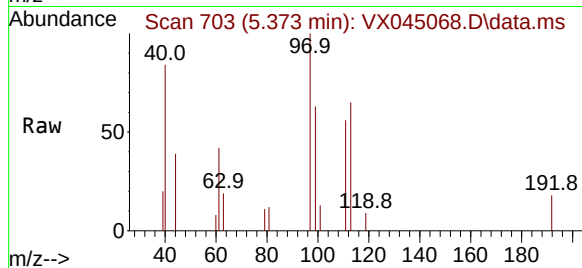
61 50.0 38.4 57.6

Manual Integrations

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#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 5.95 min

Lab File: VX045068.D

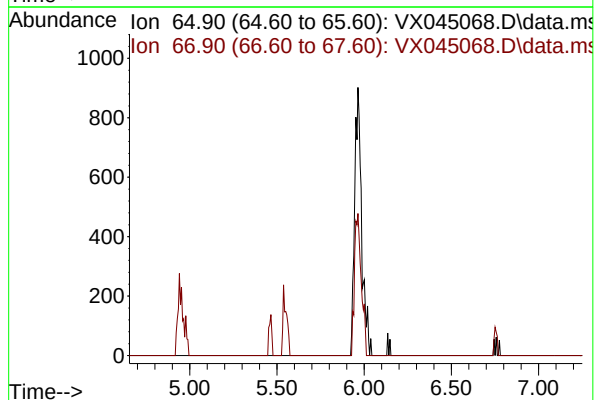
Acq: 28 Feb 2025 01:27

Tgt Ion: 65

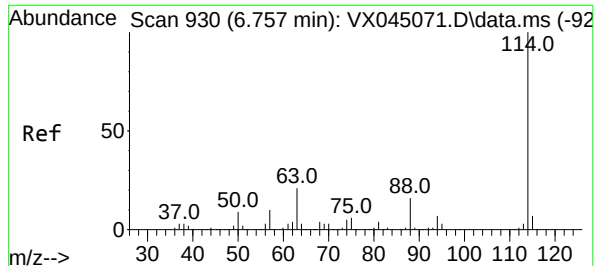
Sig Exp Ratio

65 100

67 53.1



Ion 66.90 (66.60 to 67.60): VX045068.D\data.ms



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:114 Resp: 18864

Ion Ratio Lower Upper

114 100

63 21.4 0.0 41.8

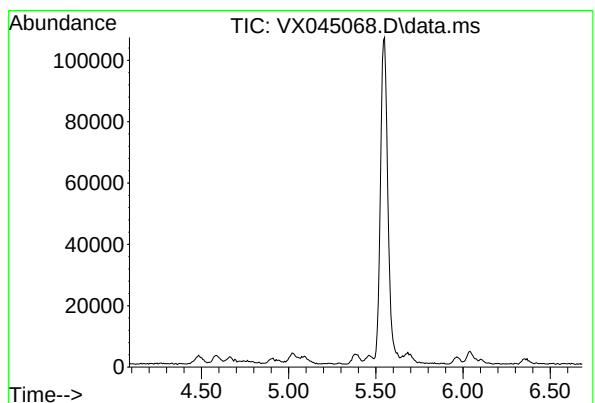
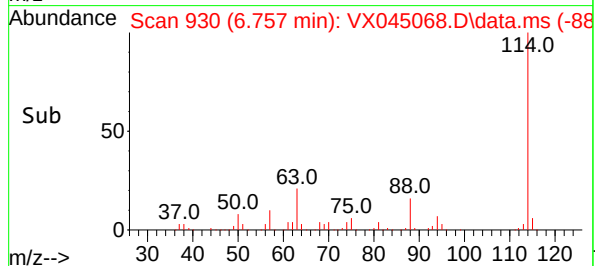
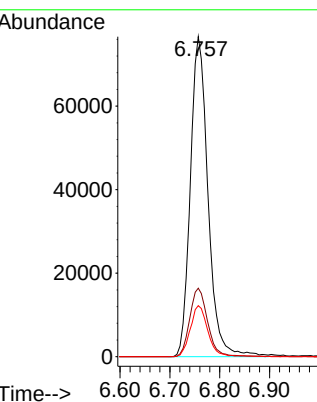
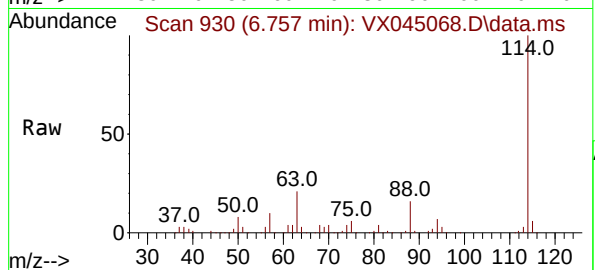
88 16.0 0.0 32.8

Manual Integrations

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Supervised By :Mahesh Dadoda 02/28/2025



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 5.39 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

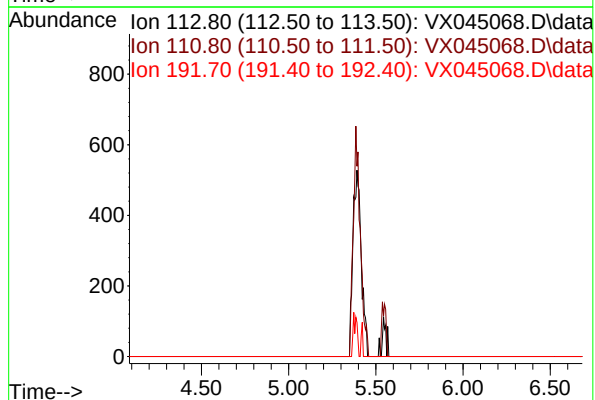
Tgt Ion: 113

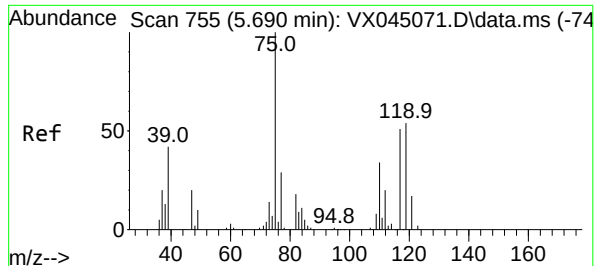
Sig Exp Ratio

113 100

111 102.2

192 17.9





#36

1,1-Dichloropropene

Concen: 0.967 ug/l

RT: 5.690 min Scan# 755

Delta R.T. 0.000 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 75 Resp: 168

Ion Ratio Lower Upper

75 100

110 29.6 16.9 50.6

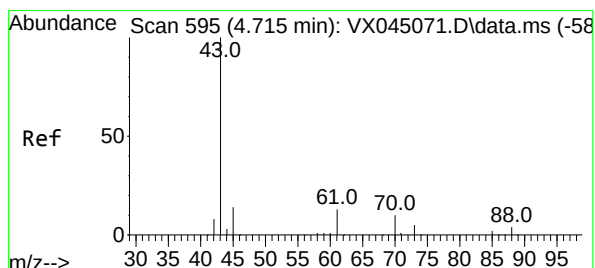
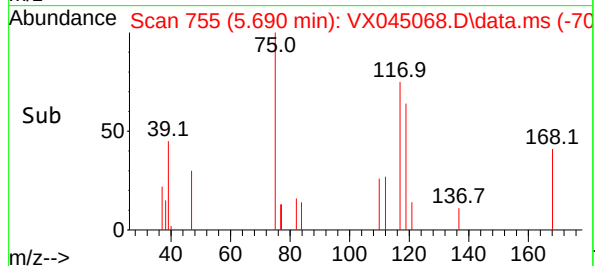
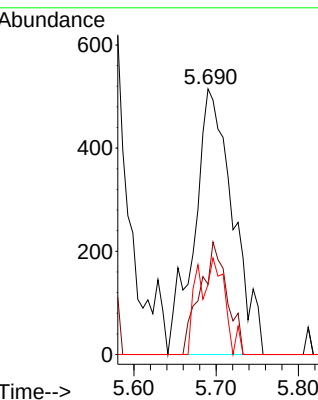
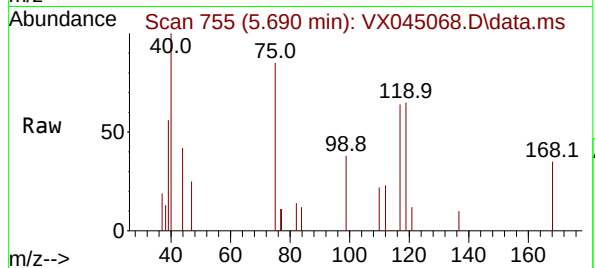
77 16.4 24.5 36.7

Manual Integrations

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Supervised By :Mahesh Dadoda 02/28/2025



#37

Ethyl Acetate

Concen: 0.988 ug/l m

RT: 4.739 min Scan# 599

Delta R.T. 0.024 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

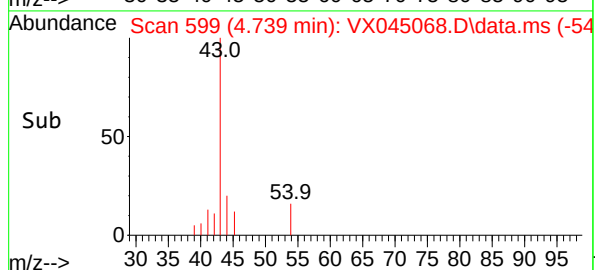
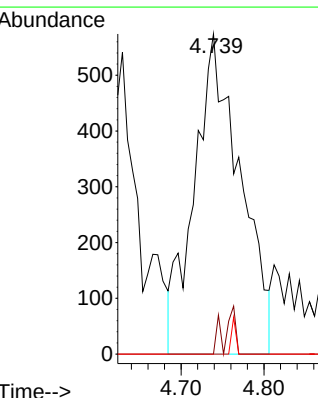
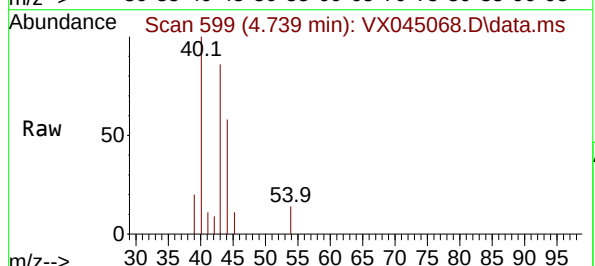
Tgt Ion: 43 Resp: 2223

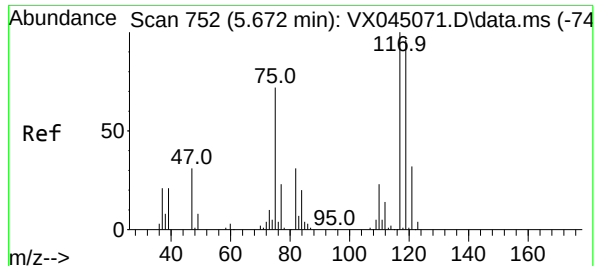
Ion Ratio Lower Upper

43 100

61 0.0 10.8 16.2#

70 0.0 7.7 11.5#





#38

Carbon Tetrachloride

Concen: 0.987 ug/l m

RT: 5.672 min Scan# 752

Delta R.T. 0.000 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:117 Resp: 174

Ion Ratio Lower Upper

117 100

119 103.4 76.7 115.1

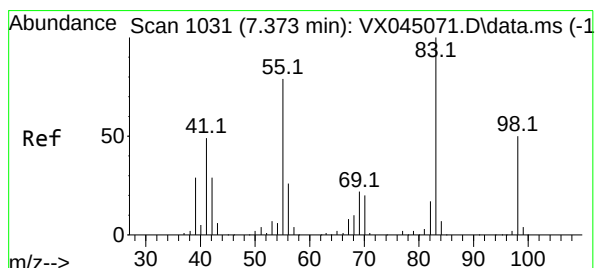
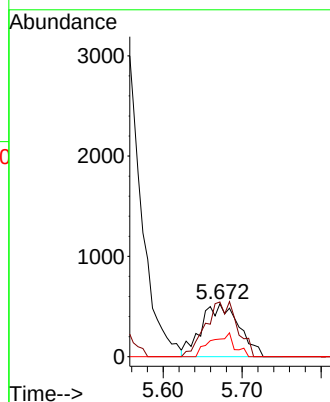
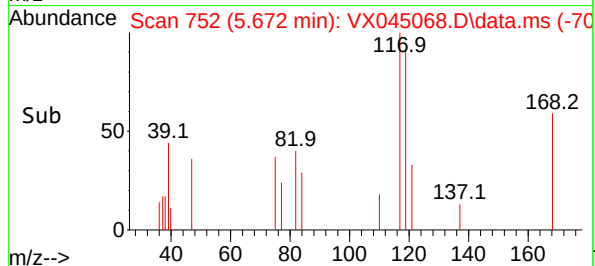
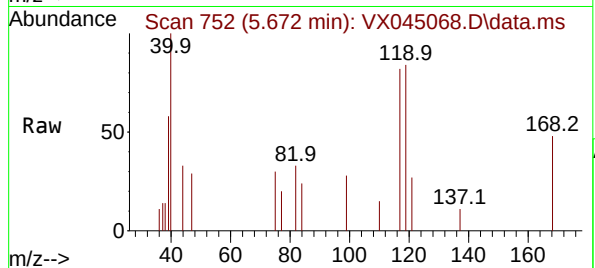
121 33.2 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#39

Methylcyclohexane

Concen: 0.831 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. 0.012 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

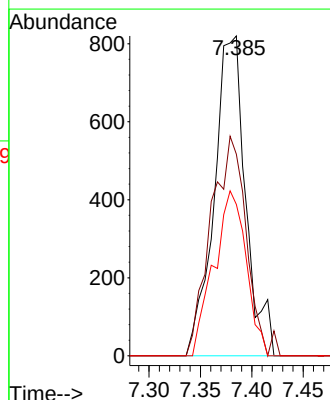
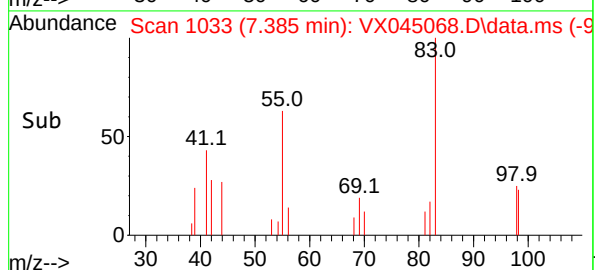
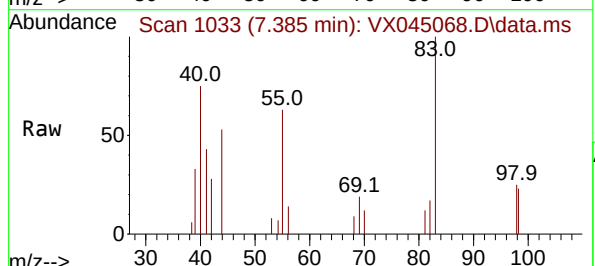
Tgt Ion: 83 Resp: 1750

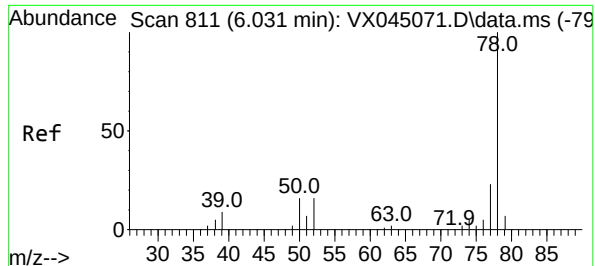
Ion Ratio Lower Upper

83 100

55 63.0 63.0 94.4

98 47.3 39.7 59.5





#40

Benzene

Concen: 0.907 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 78 Resp: 4984

Ion Ratio Lower Upper

78 100

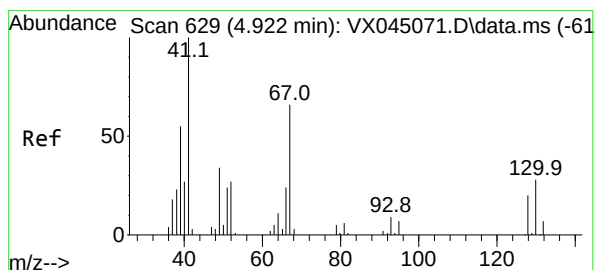
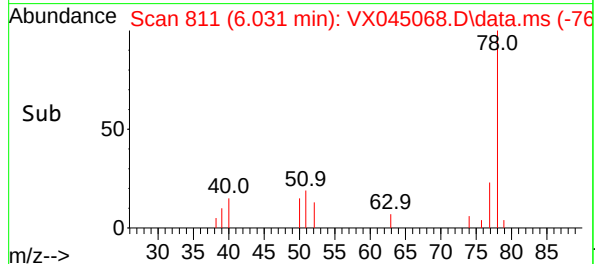
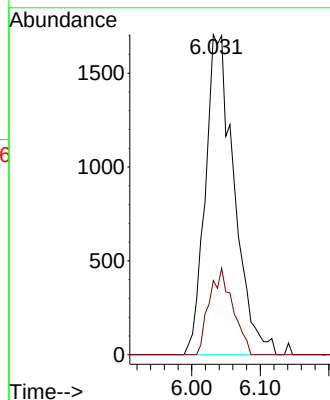
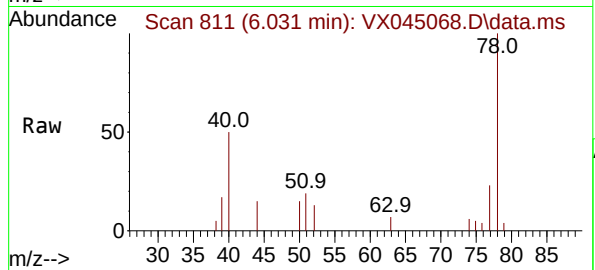
77 23.2 18.8 28.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#41

Methacrylonitrile

Concen: 0.879 ug/l m

RT: 4.958 min Scan# 635

Delta R.T. 0.037 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Tgt Ion: 41 Resp: 1072

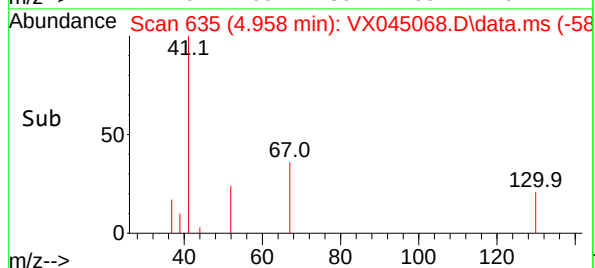
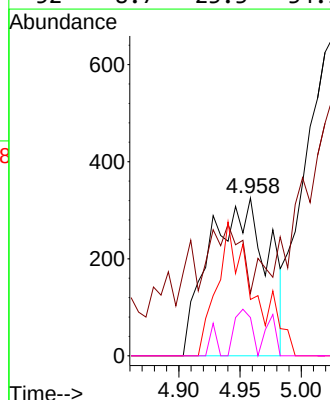
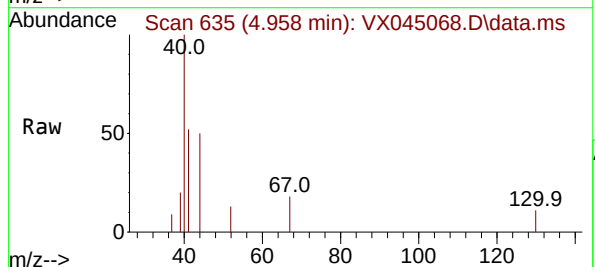
Ion Ratio Lower Upper

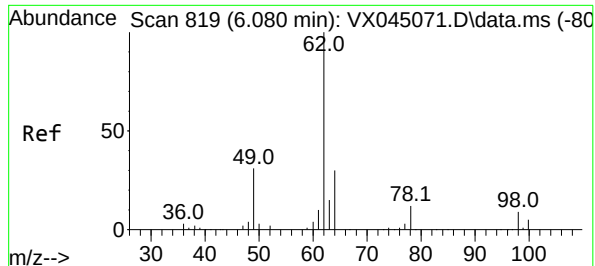
41 100

39 29.2 44.6 67.0#

67 53.9 53.9 80.9#

52 8.7 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.924 ug/l

RT: 6.099 min Scan# 819

Delta R.T. 0.018 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Tgt Ion: 62 Resp: 183

Ion Ratio Lower Upper

62 100

98 1.2 0.0 18.2

Instrument :

MSVOA_X

ClientSampleId :

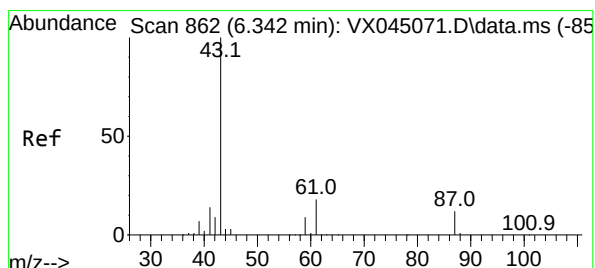
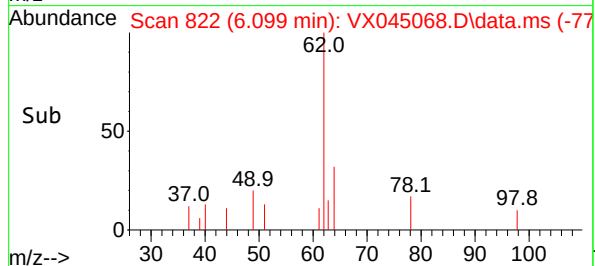
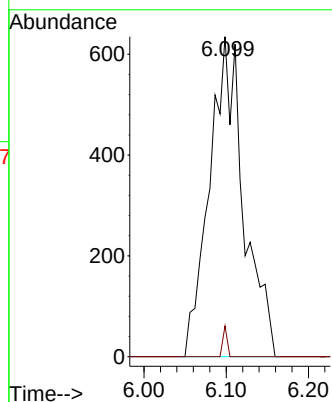
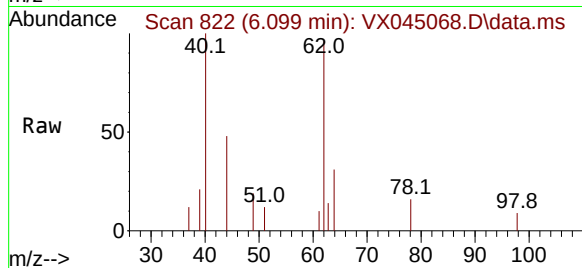
VSTDIC001

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#43

Isopropyl Acetate

Concen: 0.767 ug/l

RT: 6.355 min Scan# 864

Delta R.T. 0.012 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

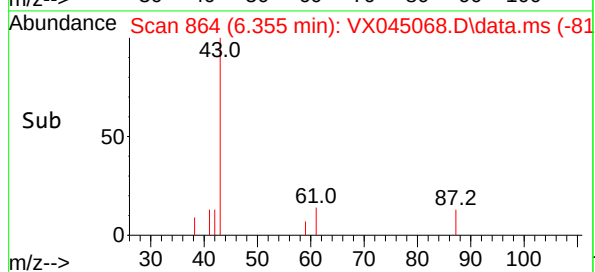
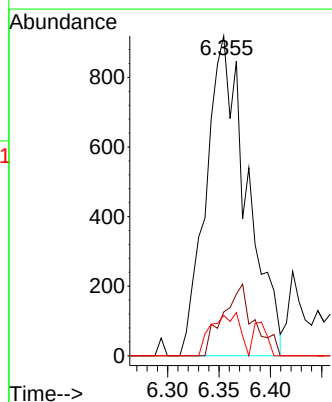
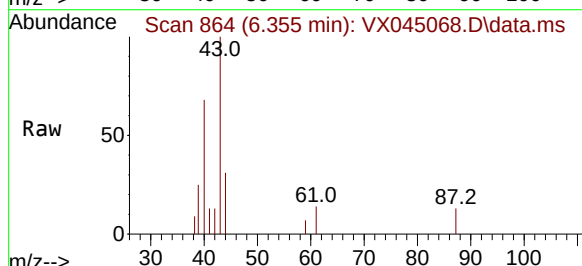
Tgt Ion: 43 Resp: 2545

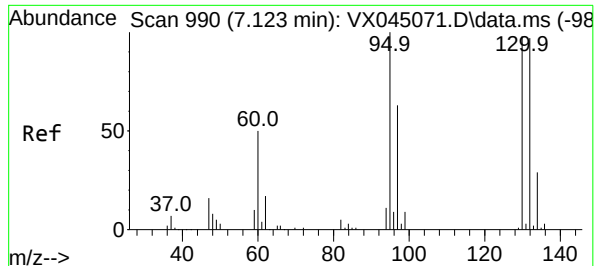
Ion Ratio Lower Upper

43 100

61 17.0 14.9 22.3

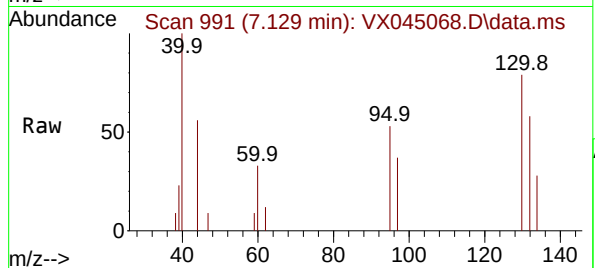
87 9.2 9.4 14.2#





#44
Trichloroethene
Concen: 0.933 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

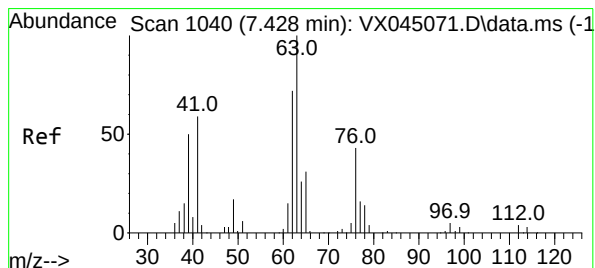
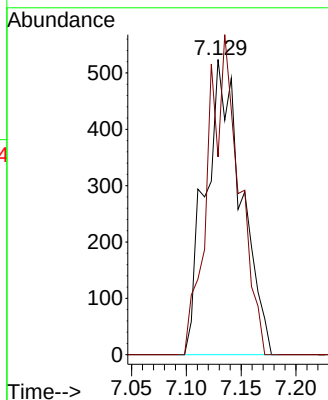
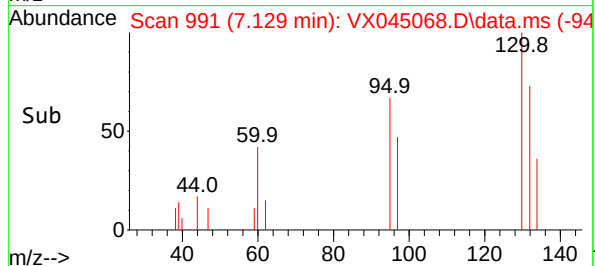
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion:130 Resp: 120
Ion Ratio Lower Upper
130 100
95 67.0 0.0 205.0

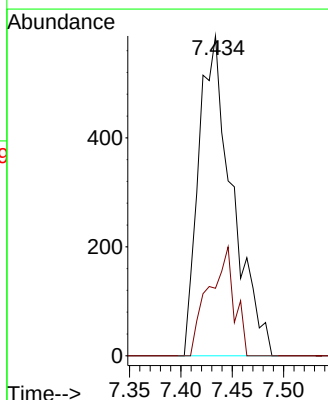
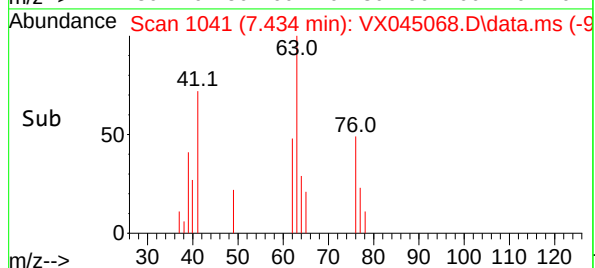
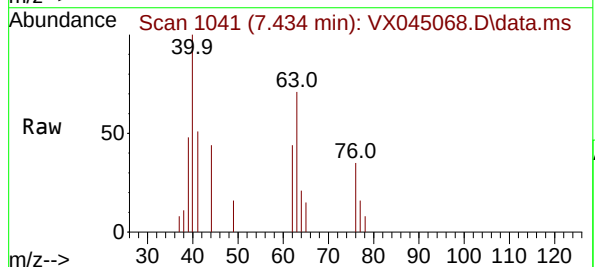
Manual Integrations
APPROVED

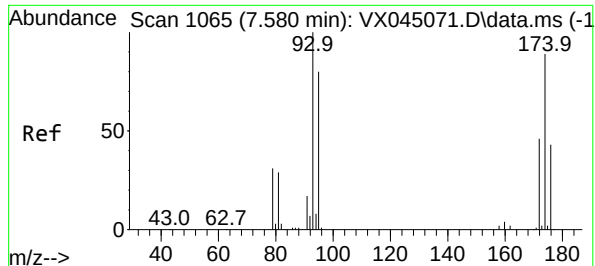
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#45
1,2-Dichloropropane
Concen: 0.971 ug/l
RT: 7.434 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 63 Resp: 1334
Ion Ratio Lower Upper
63 100
65 21.1 24.7 37.1#





#46

Dibromomethane

Concen: 0.897 ug/l

RT: 7.586 min Scan# 1065

Delta R.T. 0.006 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Instrument :

MSVOA_X

ClientSampleId :

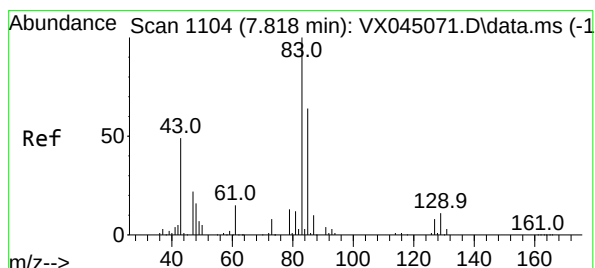
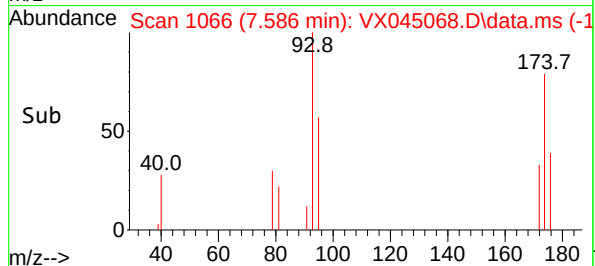
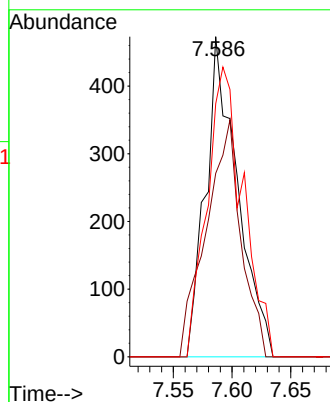
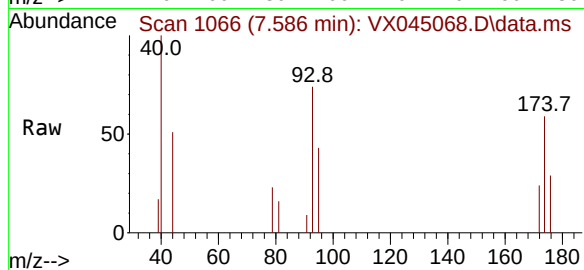
VSTDICC001

Tgt Ion:	93	Resp:	89
Ion	Ratio	Lower	Upper
93	100		
95	80.9	65.8	98.8
174	102.8	72.2	108.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#47

Bromodichloromethane

Concen: 0.927 ug/l

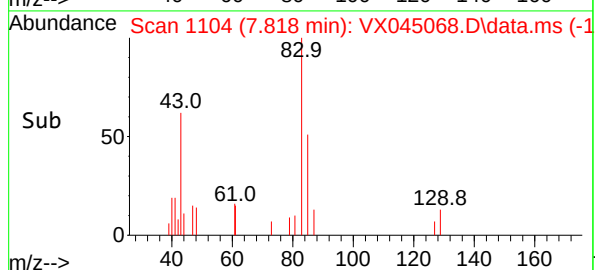
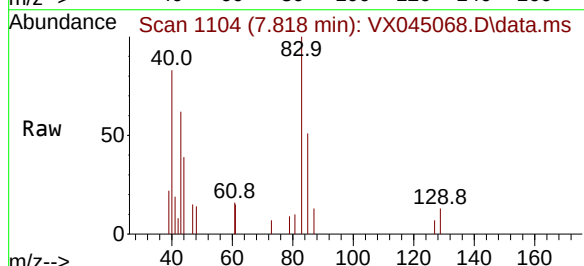
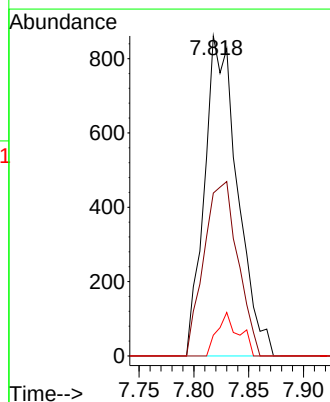
RT: 7.818 min Scan# 1104

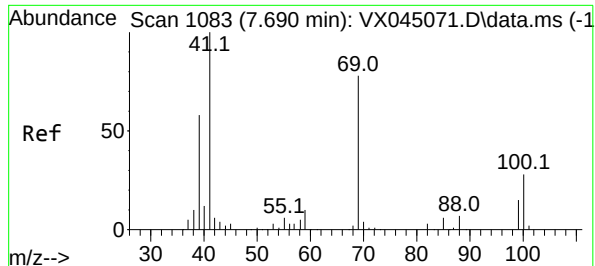
Delta R.T. 0.000 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

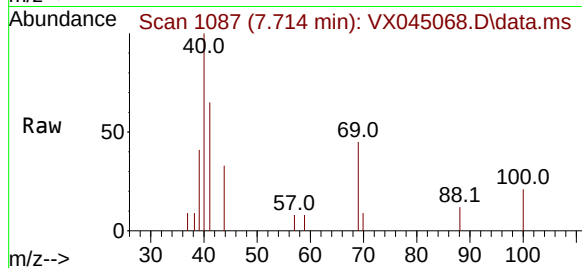
Tgt Ion:	83	Resp:	1802
Ion	Ratio	Lower	Upper
83	100		
85	50.9	51.1	76.7#
127	6.5	6.4	9.6





#48
Methyl methacrylate
Concen: 0.825 ug/l m
RT: 7.714 min Scan# 1087
Delta R.T. 0.024 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

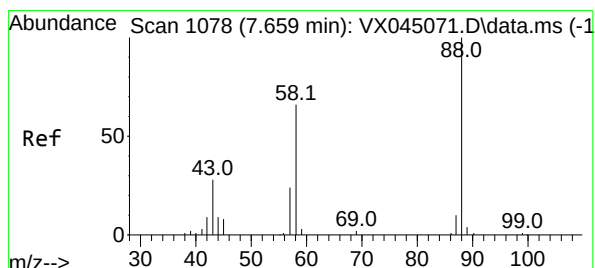
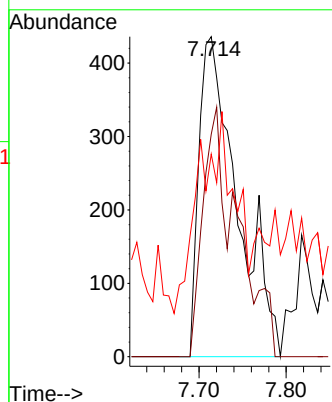
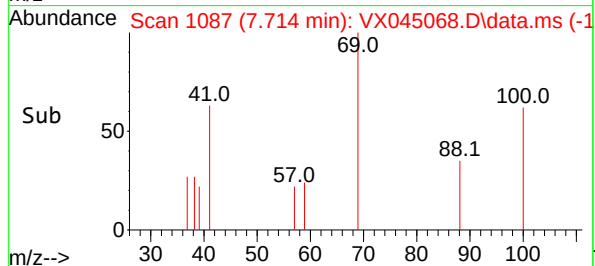
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion: 41 Resp: 1328
Ion Ratio Lower Upper
41 100
69 41.4 63.0 94.6
39 20.7 47.5 71.3

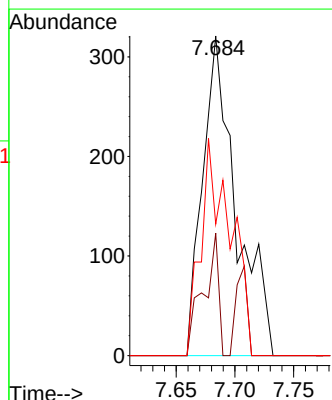
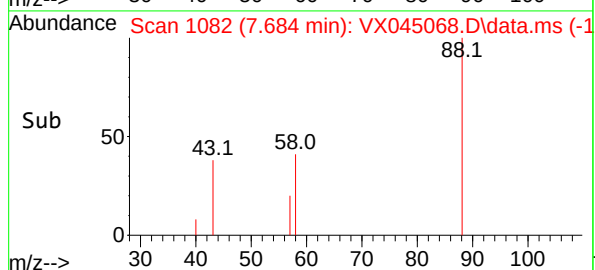
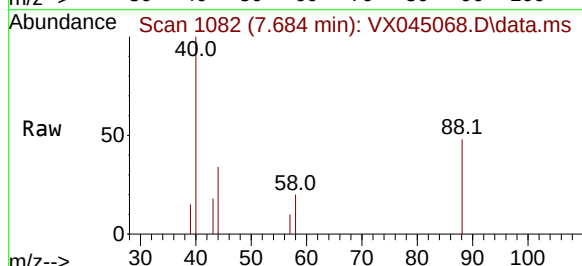
Manual Integrations
APPROVED

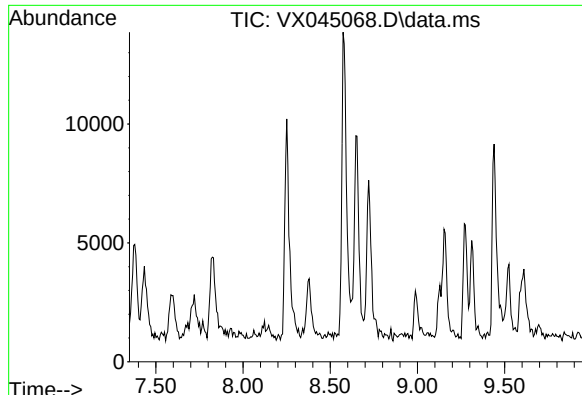
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#49
1,4-Dioxane
Concen: 18.144 ug/l
RT: 7.684 min Scan# 1082
Delta R.T. 0.024 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 88 Resp: 639
Ion Ratio Lower Upper
88 100
43 17.2 28.7 43.1#
58 59.9 55.8 83.8





#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 8.65 min

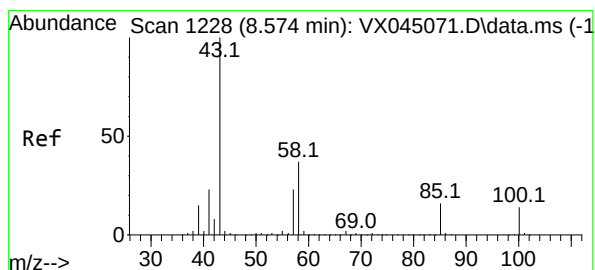
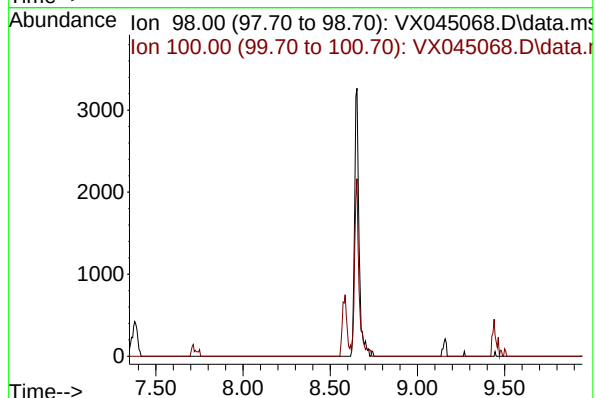
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 98
Sig Exp Ratio
98 100
100 65.0

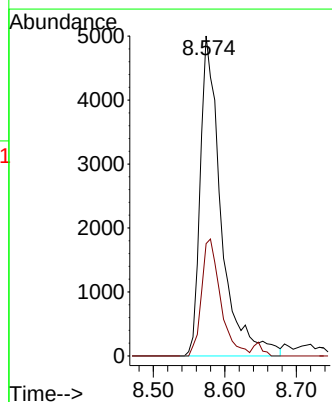
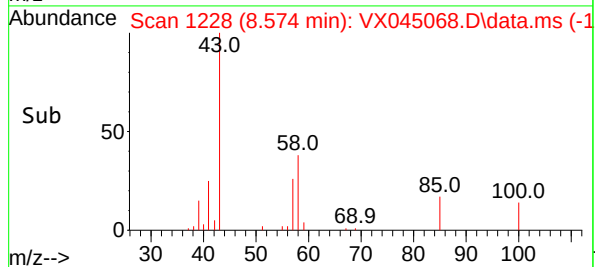
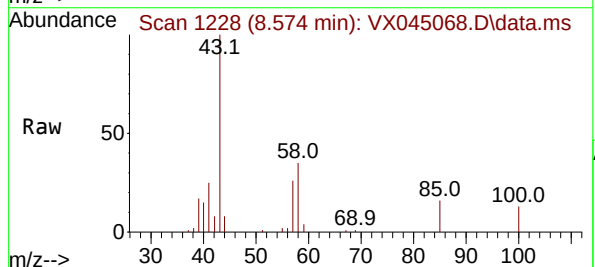
Manual Integrations
APPROVED

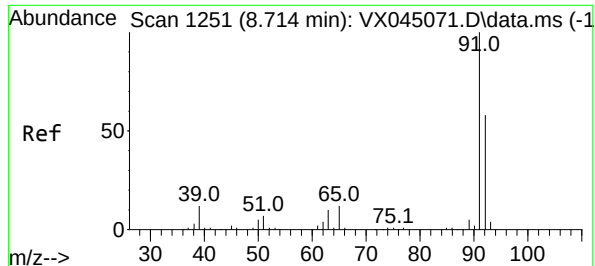
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#51
4-Methyl-2-Pentanone
Concen: 4.567 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

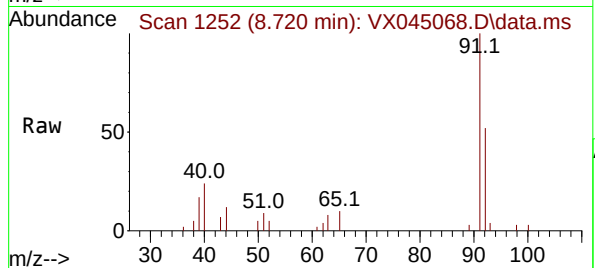
Tgt Ion: 43 Resp: 10091
Ion Ratio Lower Upper
43 100
58 33.5 29.2 43.8





#52
Toluene
Concen: 0.841 ug/l
RT: 8.720 min Scan# 1251
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

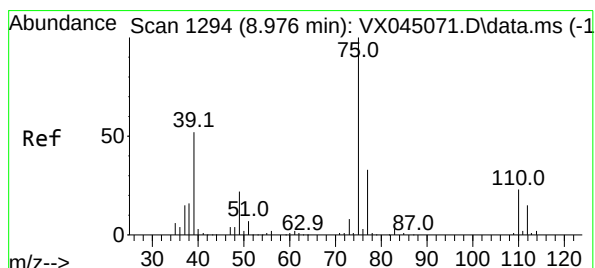
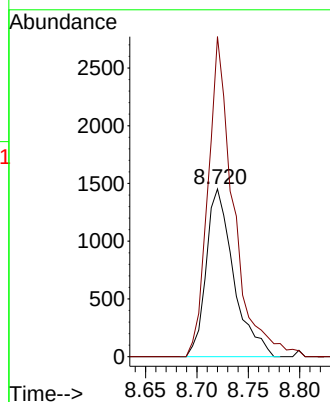
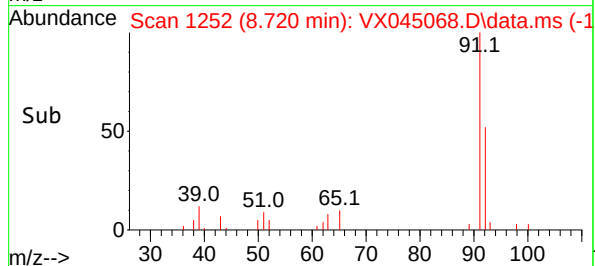
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 92 Resp: 2700
Ion Ratio Lower Upper
92 100
91 177.7 138.9 208.3

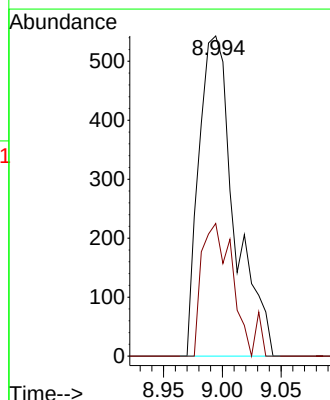
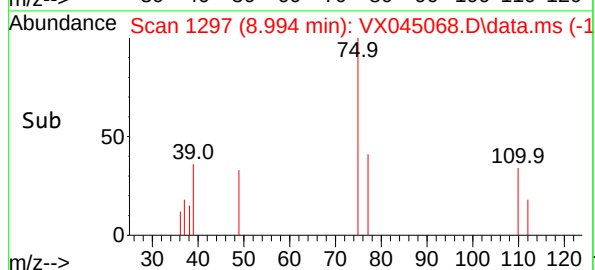
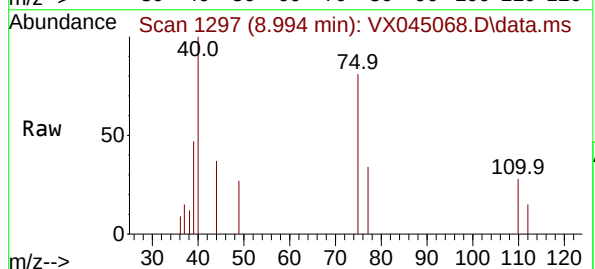
Manual Integrations
APPROVED

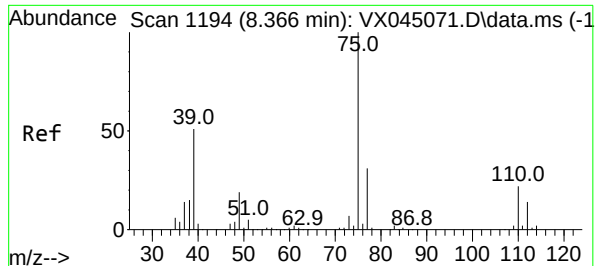
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#53
t-1,3-Dichloropropene
Concen: 0.700 ug/l
RT: 8.994 min Scan# 1297
Delta R.T. 0.018 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

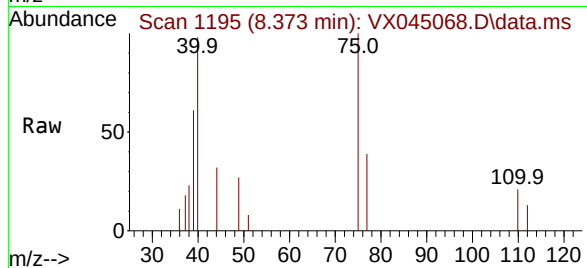
Tgt Ion: 75 Resp: 1147
Ion Ratio Lower Upper
75 100
77 41.4 26.5 39.7#





#54
cis-1,3-Dichloropropene
Concen: 0.804 ug/l
RT: 8.373 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

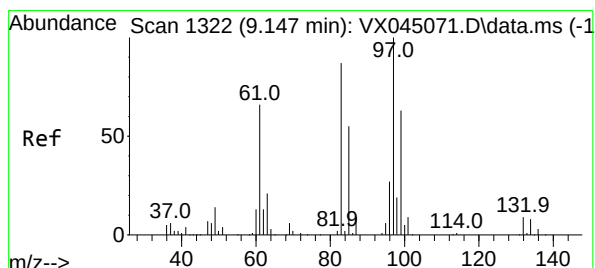
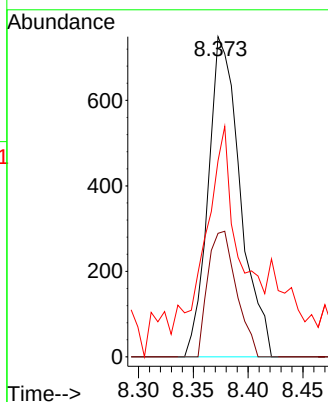
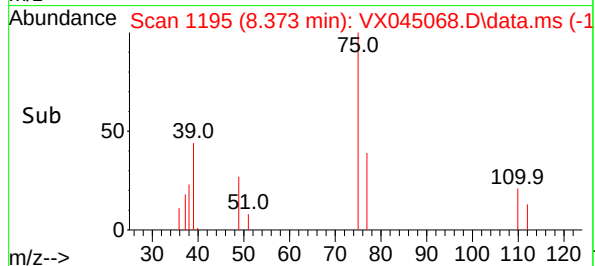
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion: 75 Resp: 152
Ion Ratio Lower Upper
75 100
77 38.6 24.7 37.1
39 45.1 40.7 61.1

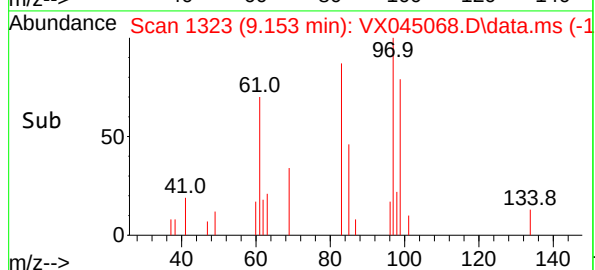
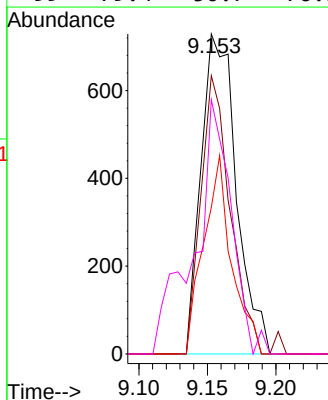
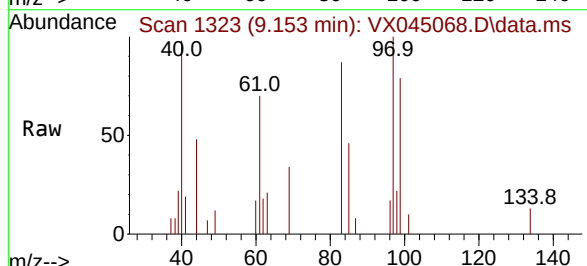
Manual Integrations
APPROVED

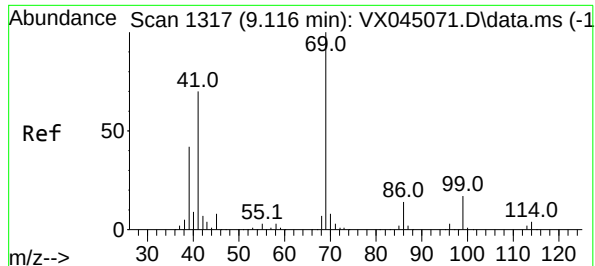
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#55
1,1,2-Trichloroethane
Concen: 1.004 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 97 Resp: 1306
Ion Ratio Lower Upper
97 100
83 87.0 69.4 104.2
85 45.8 44.1 66.1
99 79.4 50.7 76.1#





#56

Ethyl methacrylate

Concen: 0.748 ug/l

RT: 9.135 min Scan# 1149

Delta R.T. 0.018 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

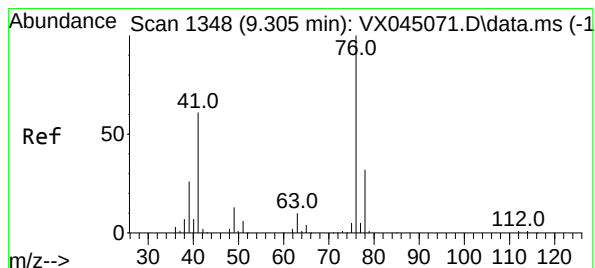
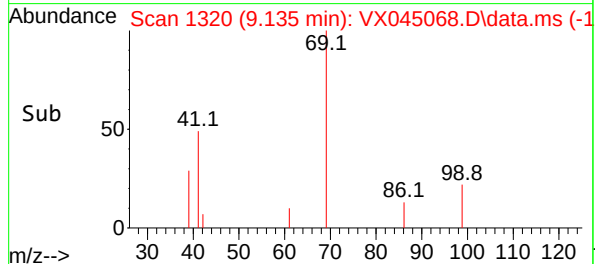
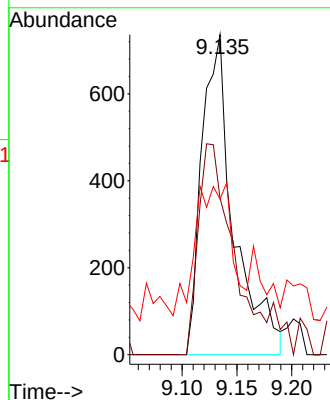
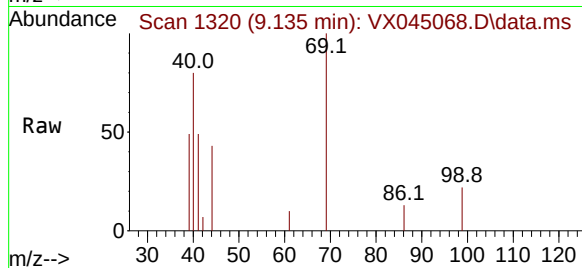
Tgt Ion:	69	Resp:	1494
Ion	Ratio	Lower	Upper
69	100		
41	71.5	57.0	85.4
39	54.6	34.2	51.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#57

1,3-Dichloropropane

Concen: 0.920 ug/l

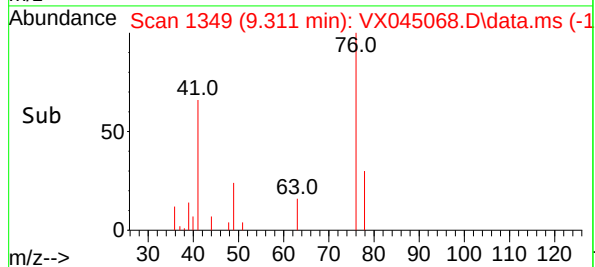
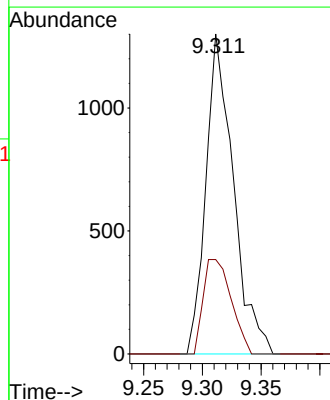
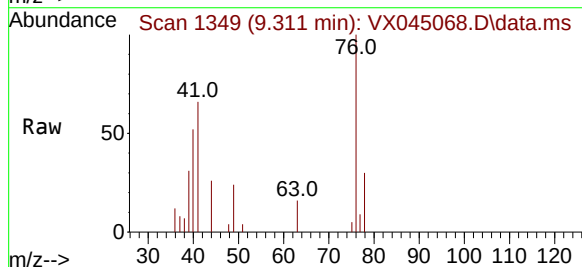
RT: 9.311 min Scan# 1349

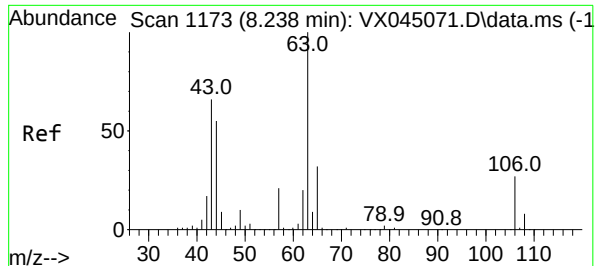
Delta R.T. 0.006 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Tgt Ion:	76	Resp:	2112
Ion	Ratio	Lower	Upper
76	100		
78	30.1	25.5	38.3





#58

2-Chloroethyl Vinyl ether

Concen: 4.320 ug/l

RT: 8.251 min Scan# 1173

Delta R.T. 0.012 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 63 Resp: 411

Ion Ratio Lower Upper

63 100

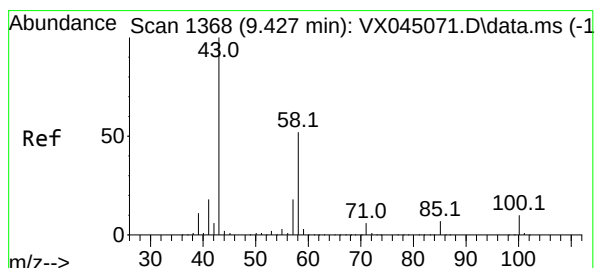
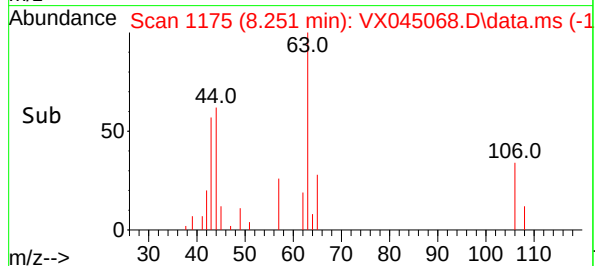
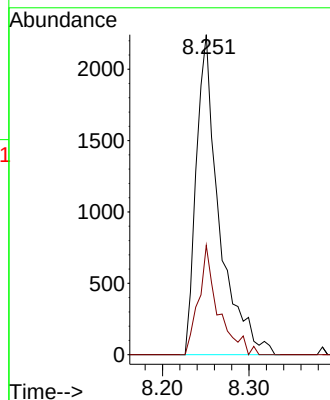
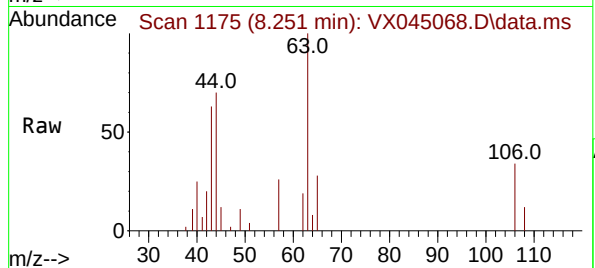
106 29.2 21.5 32.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#59

2-Hexanone

Concen: 4.153 ug/l

RT: 9.439 min Scan# 1370

Delta R.T. 0.012 min

Lab File: VX045068.D

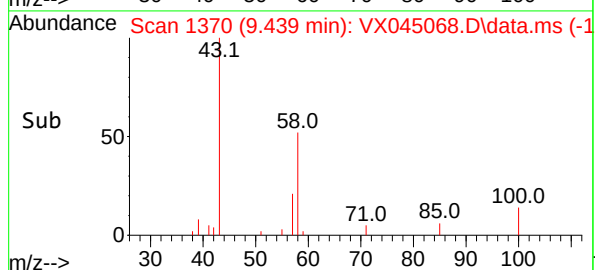
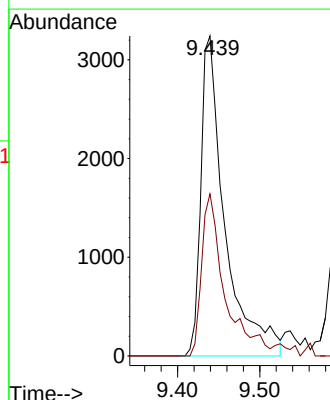
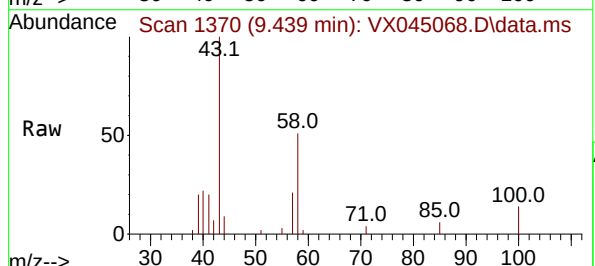
Acq: 28 Feb 2025 01:27

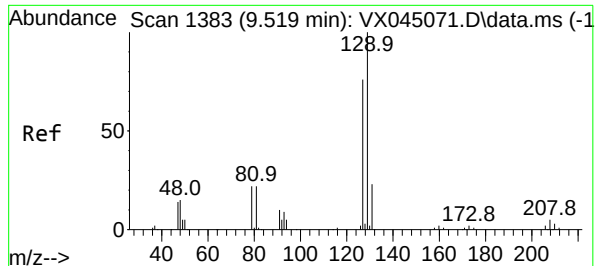
Tgt Ion: 43 Resp: 6582

Ion Ratio Lower Upper

43 100

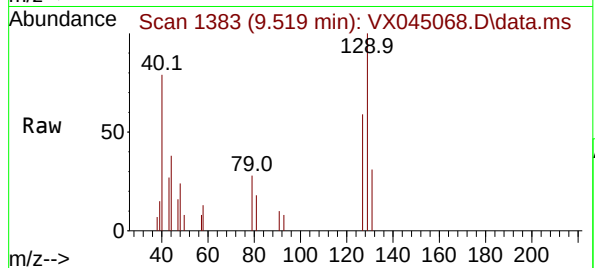
58 48.7 25.9 77.6





#60
Dibromochloromethane
Concen: 0.835 ug/l
RT: 9.519 min Scan# 1152
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

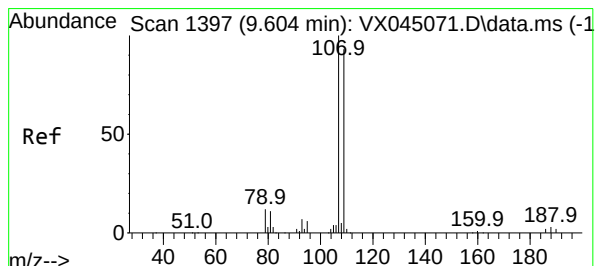
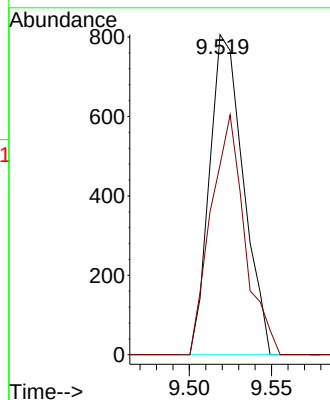
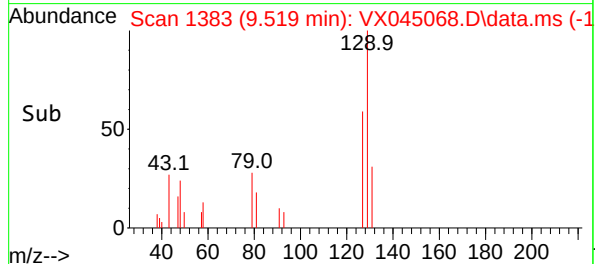
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



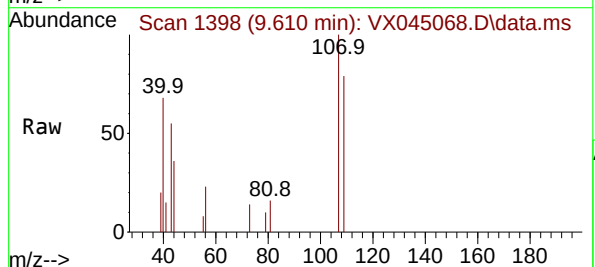
Tgt Ion:129 Resp: 1152
Ion Ratio Lower Upper
129 100
127 75.2 38.5 115.5

Manual Integrations
APPROVED

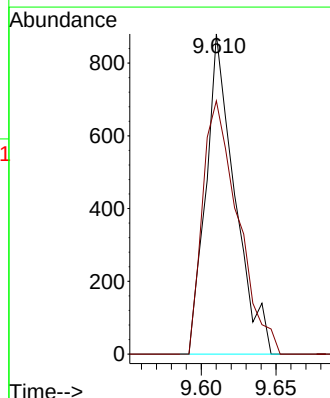
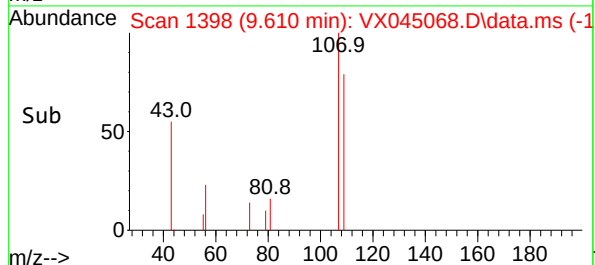
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

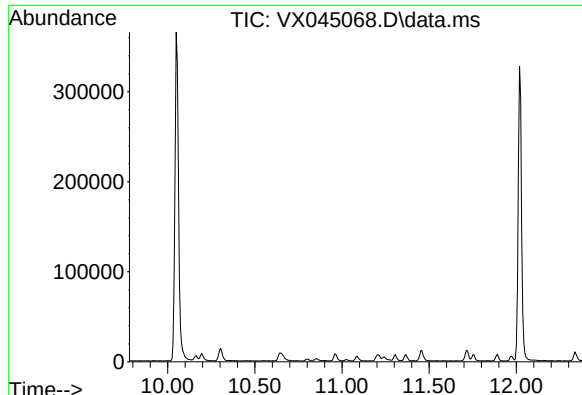


#61
1,2-Dibromoethane
Concen: 0.890 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27



Tgt Ion:107 Resp: 1174
Ion Ratio Lower Upper
107 100
109 97.6 76.1 114.1





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 11.08 min

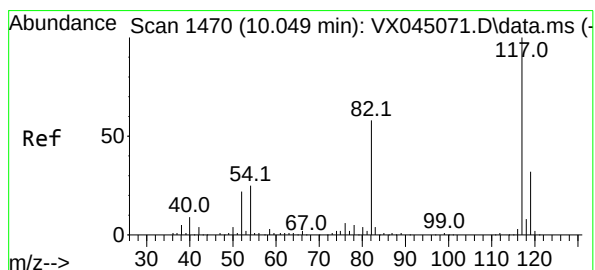
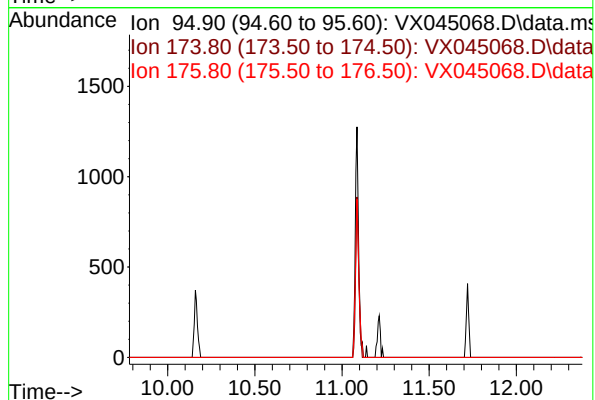
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 95
Sig Exp Ratio
95 100
174 74.1
176 70.7

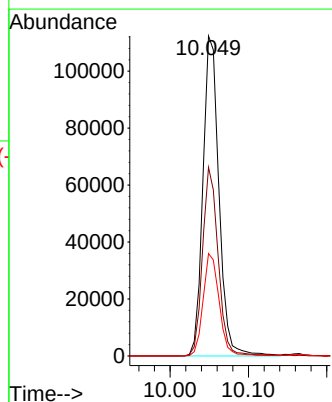
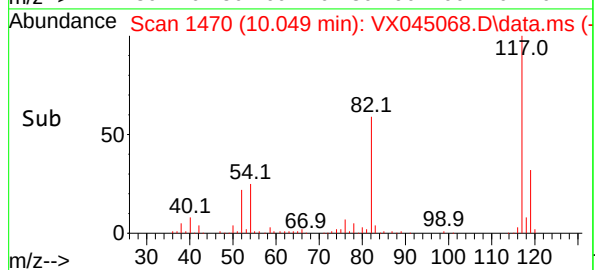
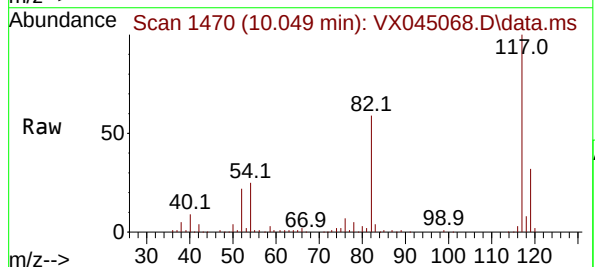
Manual Integrations
APPROVED

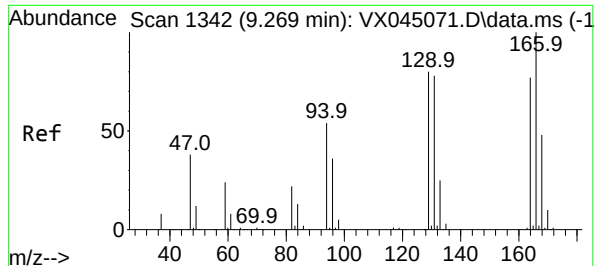
Reviewed By : John Carlone 02/28/2025
Supervised By : Mahesh Dadoda 02/28/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 117 Resp: 159886
Ion Ratio Lower Upper
117 100
82 59.0 46.3 69.5
119 32.0 25.7 38.5





#64

Tetrachloroethene

Concen: 0.986 ug/l

RT: 9.275 min Scan# 1342

Delta R.T. 0.006 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:164 Resp: 1000

Ion Ratio Lower Upper

164 100

166 127.9 103.6 155.4

129 85.8 82.7 124.1

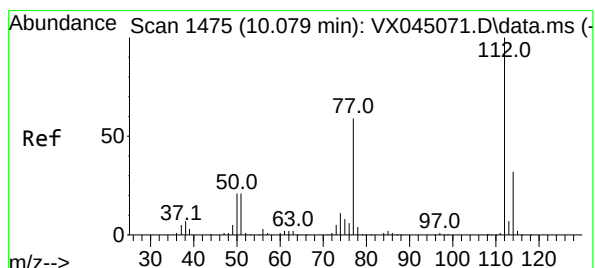
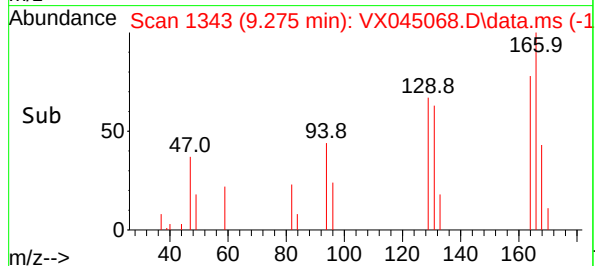
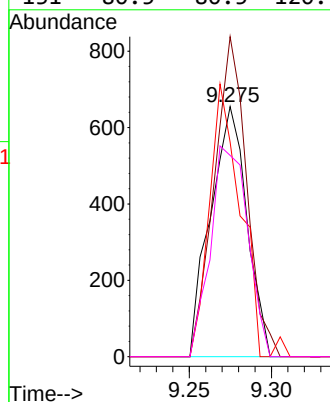
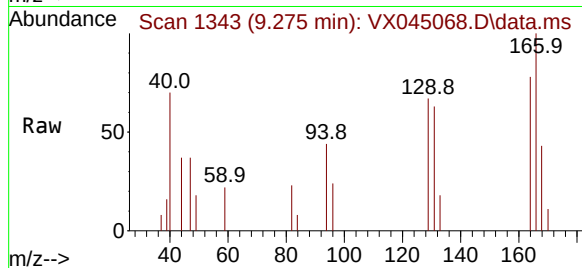
131 80.5 80.5 120.7#

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#65

Chlorobenzene

Concen: 0.908 ug/l

RT: 10.080 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VX045068.D

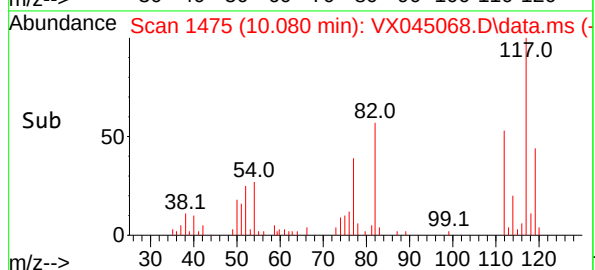
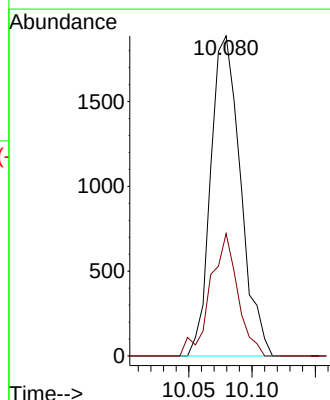
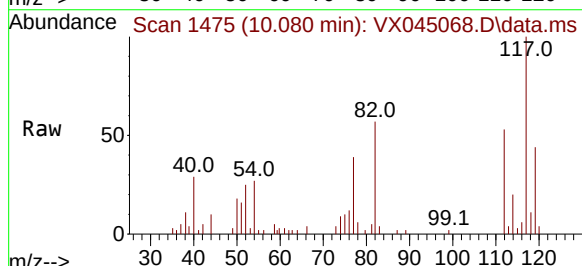
Acq: 28 Feb 2025 01:27

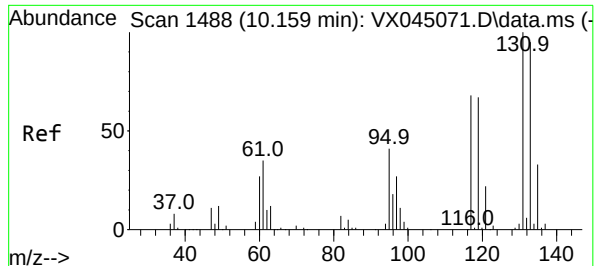
Tgt Ion:112 Resp: 3094

Ion Ratio Lower Upper

112 100

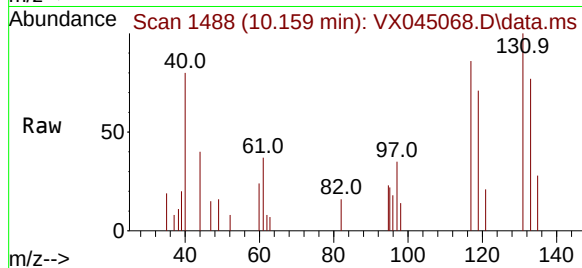
114 38.3 26.0 39.0





#66
1,1,1,2-Tetrachloroethane
Concen: 0.978 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

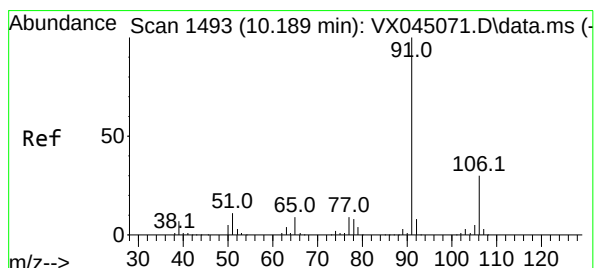
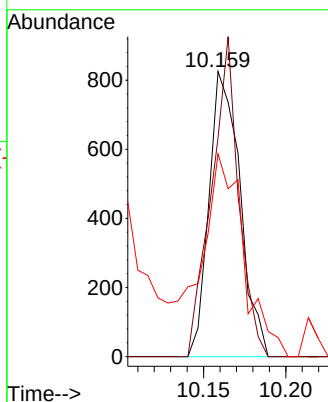
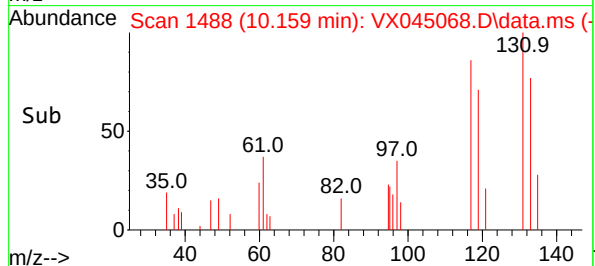
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion:131 Resp: 1078
Ion Ratio Lower Upper
131 100
133 98.6 48.6 145.9
119 0.0 33.9 101.7

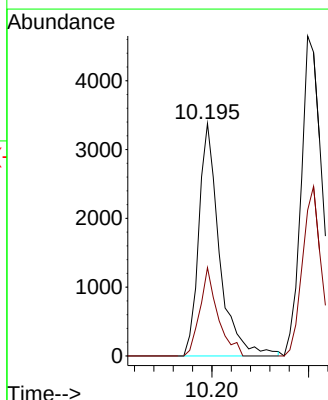
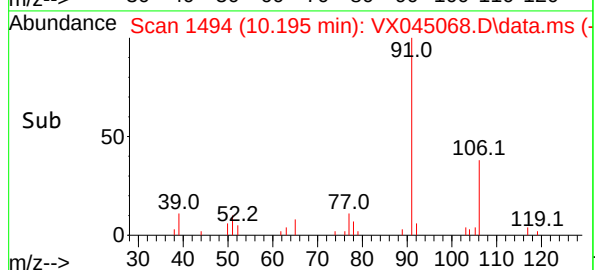
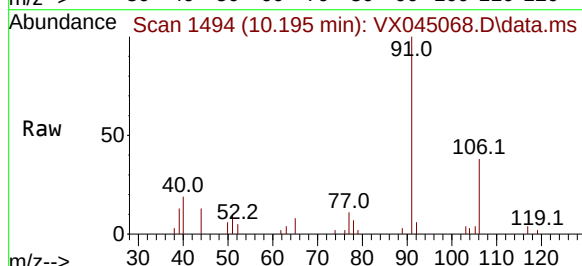
Manual Integrations
APPROVED

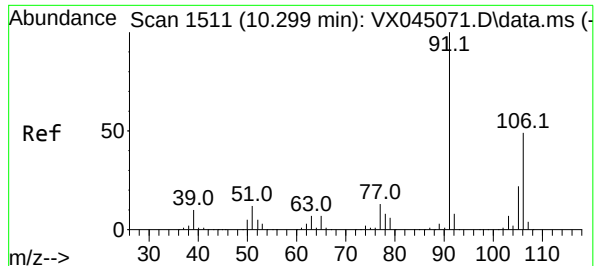
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#67
Ethyl Benzene
Concen: 0.846 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 91 Resp: 5008
Ion Ratio Lower Upper
91 100
106 38.0 23.9 35.9#





#68

m/p-Xylenes

Concen: 1.630 ug/l

RT: 10.305 min Scan# 1512

Delta R.T. 0.006 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:106 Resp: 355

Ion Ratio Lower Upper

106 100

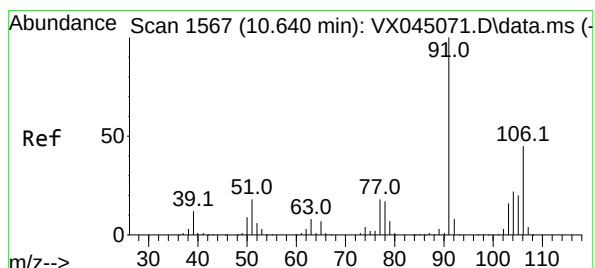
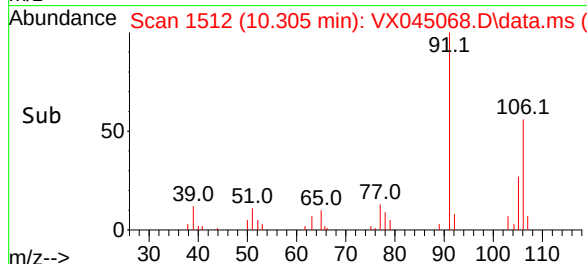
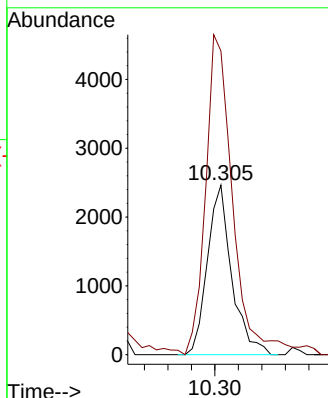
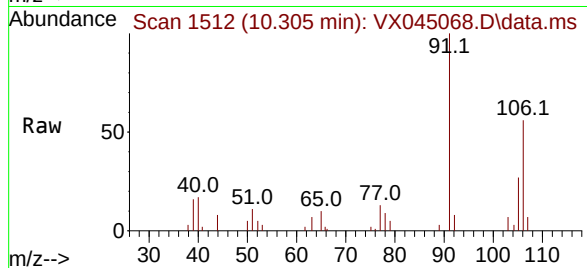
91 211.2 165.4 248.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#69

o-Xylene

Concen: 0.891 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX045068.D

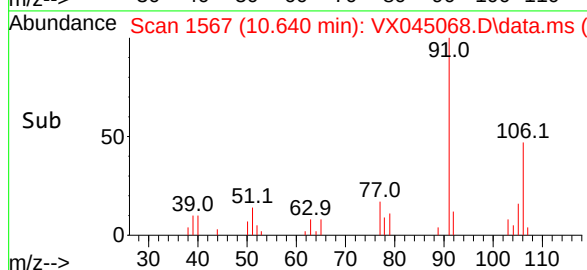
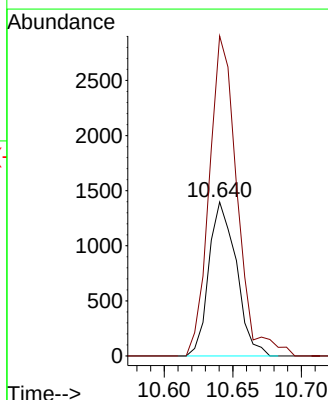
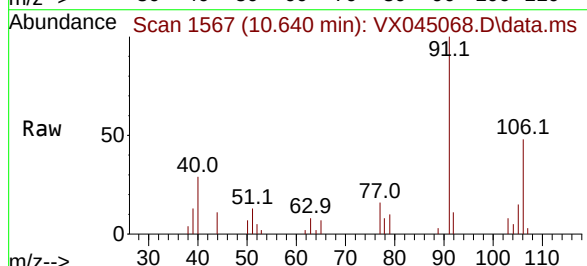
Acq: 28 Feb 2025 01:27

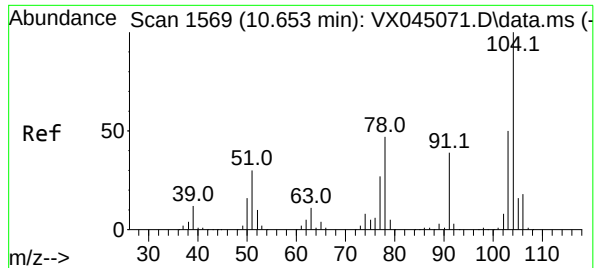
Tgt Ion:106 Resp: 1949

Ion Ratio Lower Upper

106 100

91 211.0 109.9 329.6





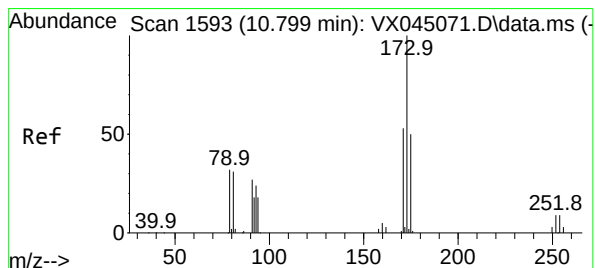
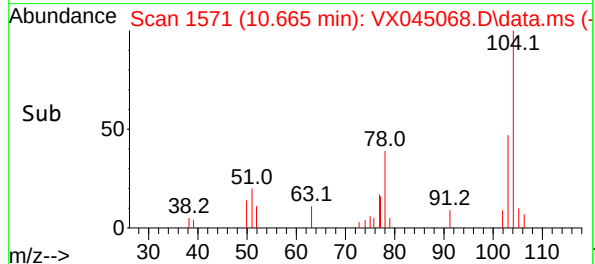
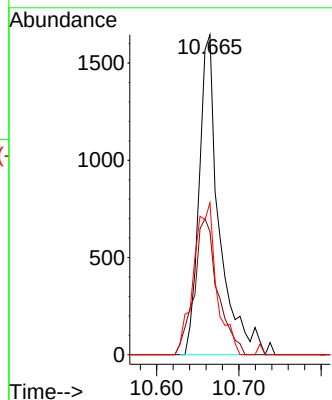
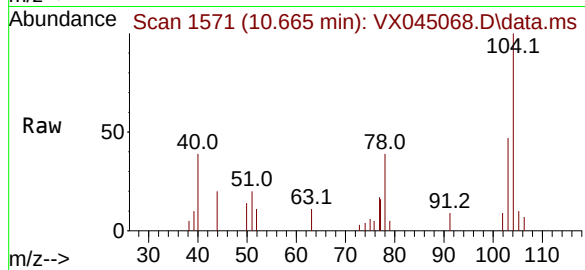
#70
Styrene
Concen: 0.802 ug/l
RT: 10.665 min Scan# 1571
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:104 Resp: 2810
Ion Ratio Lower Upper
104 100
78 49.7 42.2 63.4
103 53.6 43.8 65.8

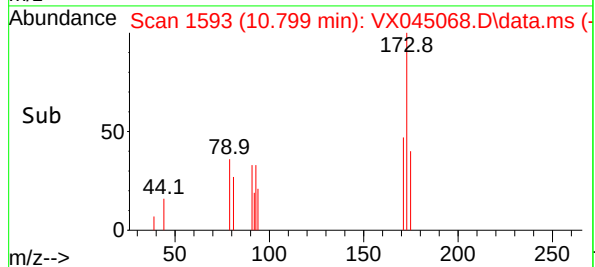
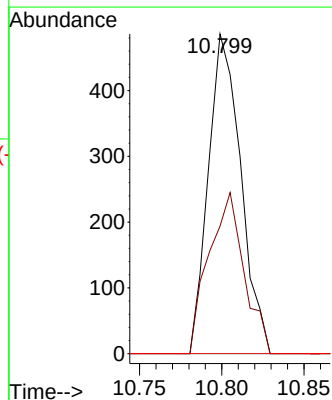
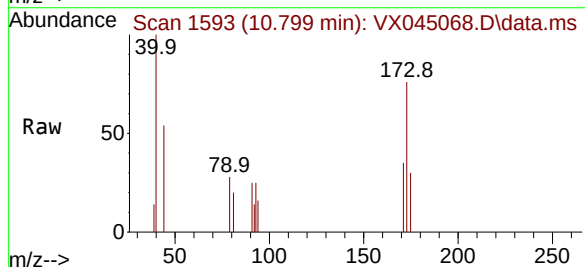
Manual Integrations
APPROVED

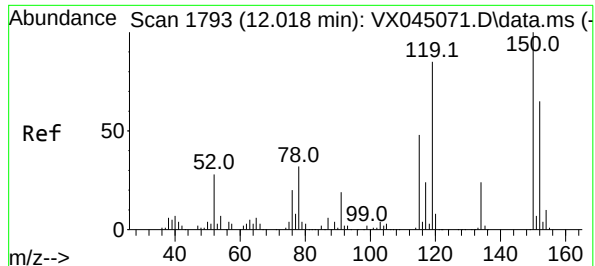
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#71
Bromoform
Concen: 0.768 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

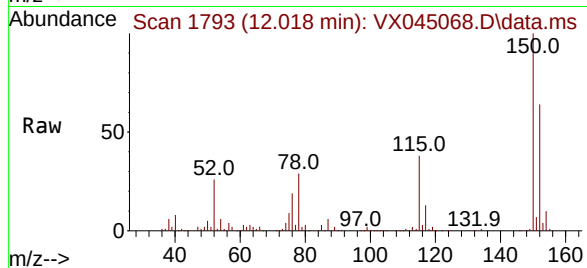
Tgt Ion:173 Resp: 667
Ion Ratio Lower Upper
173 100
175 54.7 24.6 73.6
254 0.0 0.0 0.0





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

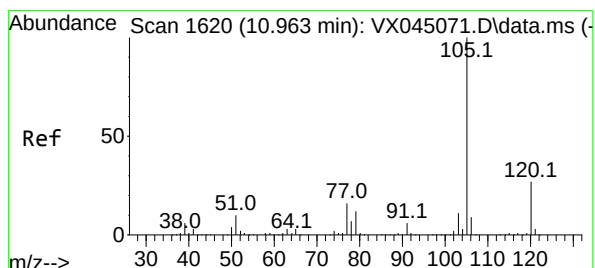
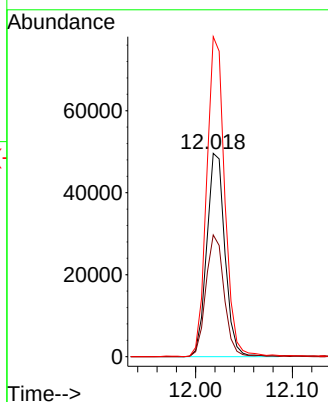
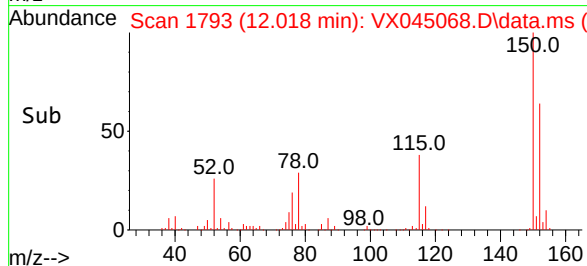
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



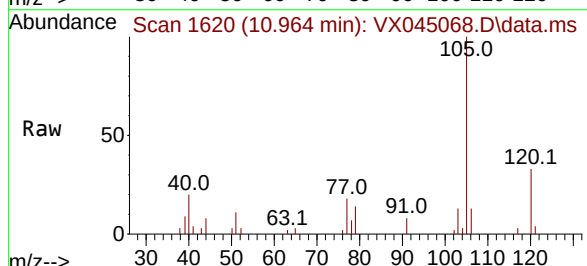
Tgt Ion:152 Resp: 6484
Ion Ratio Lower Upper
152 100
115 60.3 44.2 132.6
150 157.1 0.0 349.0

Manual Integrations
APPROVED

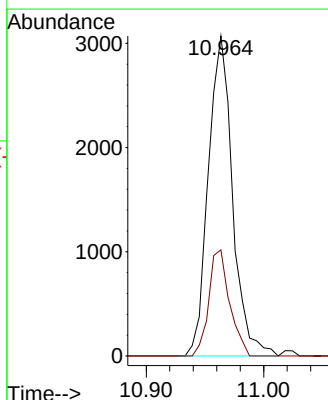
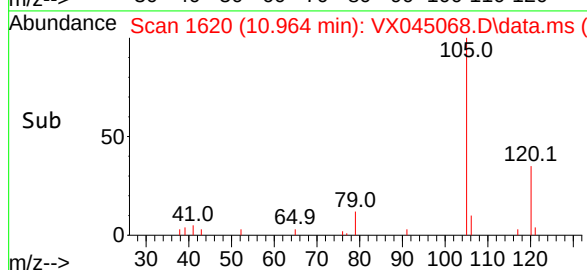
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

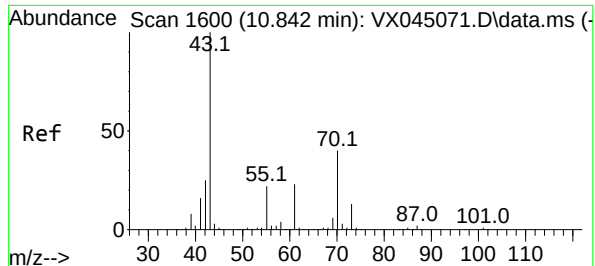


#73
Isopropylbenzene
Concen: 0.858 ug/l
RT: 10.964 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27



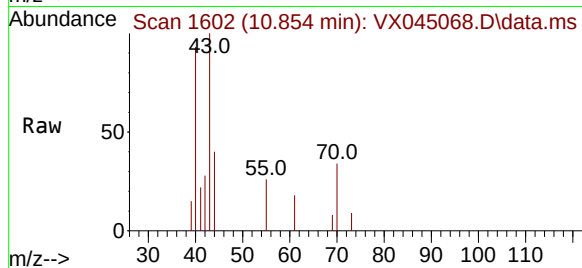
Tgt Ion:105 Resp: 4405
Ion Ratio Lower Upper
105 100
120 28.5 13.2 39.5





#74
N-amy1 acetate
Concen: 0.732 ug/l
RT: 10.854 min Scan# 1602
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

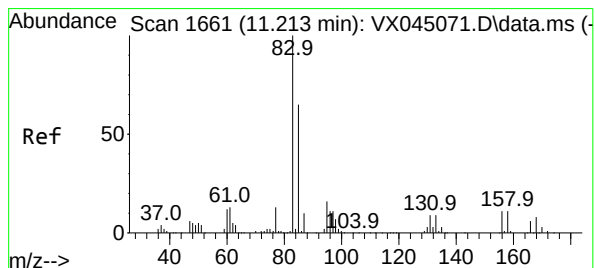
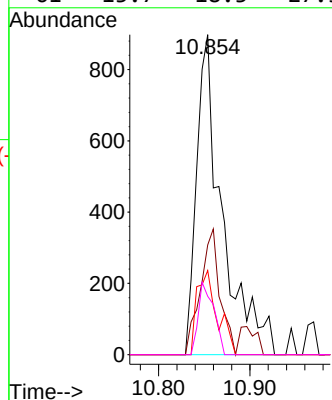
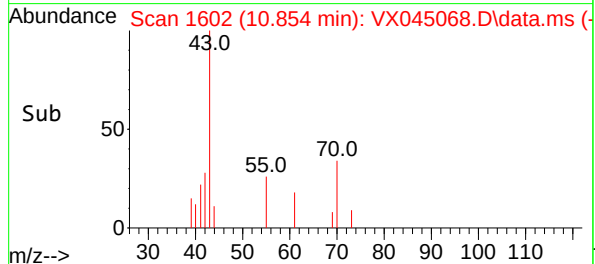
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion	Ratio	Lower	Upper
43	100		
70	30.1	31.8	47.6
55	20.9	18.3	27.5
61	13.7	18.3	27.5

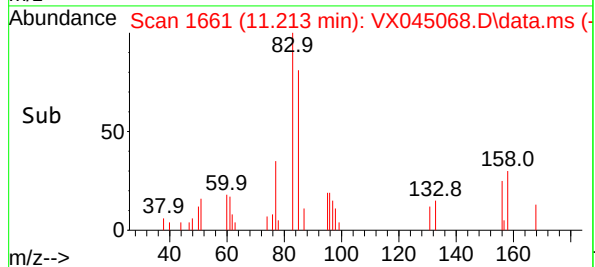
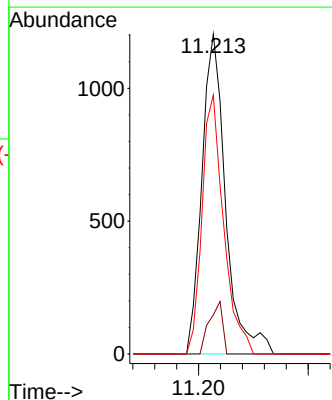
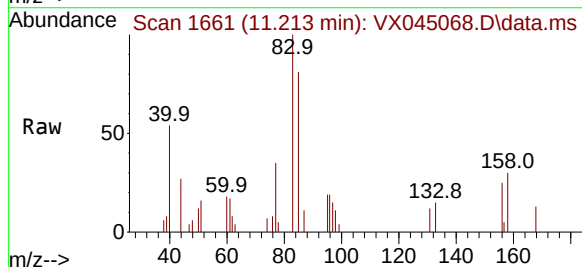
Manual Integrations
APPROVED

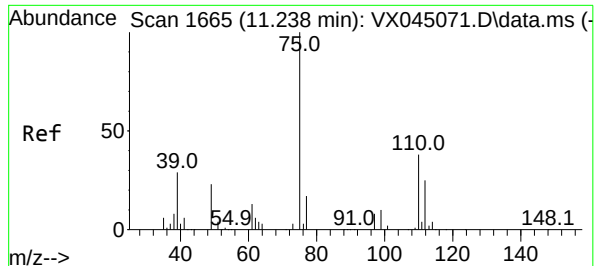
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#75
1,1,2,2-Tetrachloroethane
Concen: 0.954 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

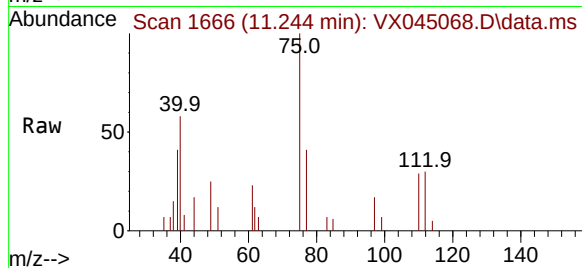
Tgt Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.5	13.4
85	73.7	31.7	95.1





#76
1,2,3-Trichloropropane
Concen: 1.015 ug/l m
RT: 11.244 min Scan# 1666
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

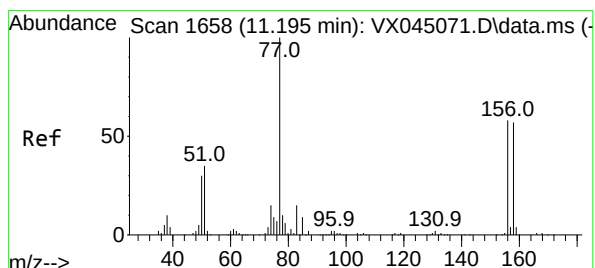
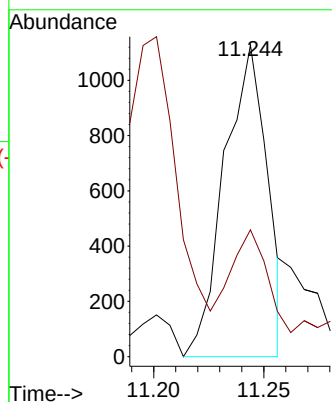
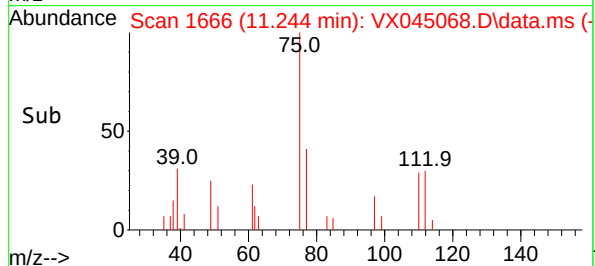
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



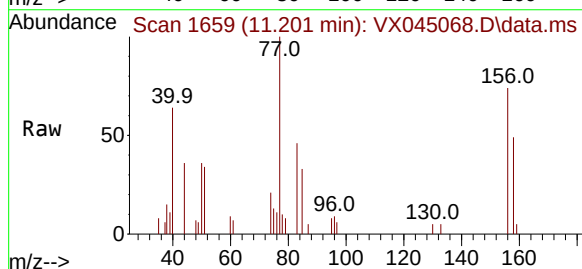
Tgt Ion: 75 Resp: 153
Ion Ratio Lower Upper
75 100
77 40.0 20.7 62.1

Manual Integrations
APPROVED

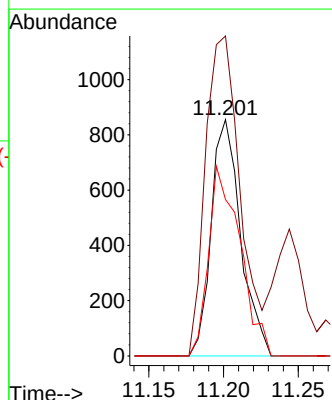
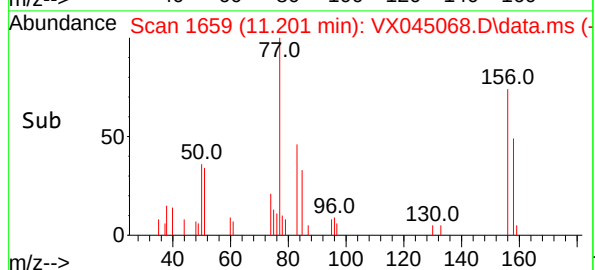
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

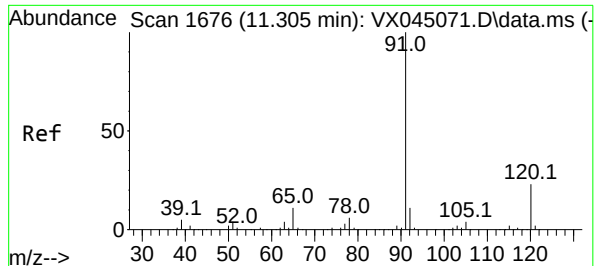


#77
Bromobenzene
Concen: 0.972 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27



Tgt Ion:156 Resp: 1166
Ion Ratio Lower Upper
156 100
77 159.8 85.8 257.4
158 86.2 48.4 145.2





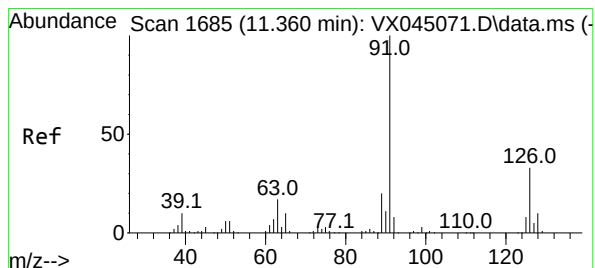
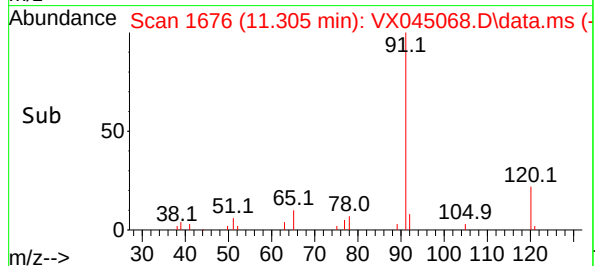
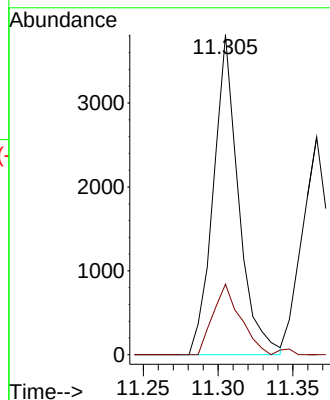
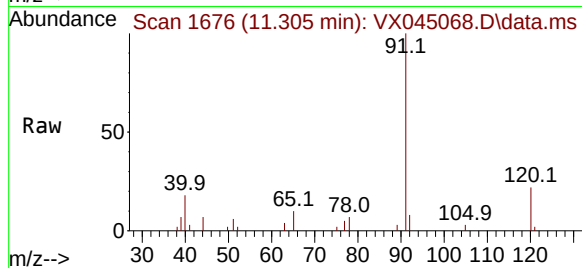
#78
n-propylbenzene
Concen: 0.773 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 4475
Ion Ratio Lower Upper
91 100
120 23.9 11.2 33.6

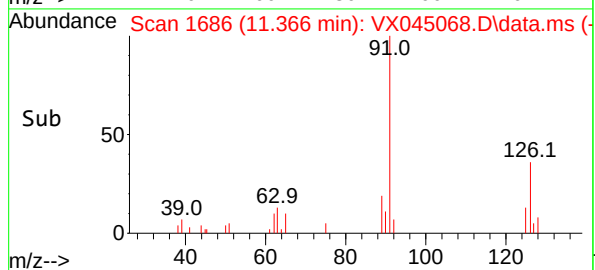
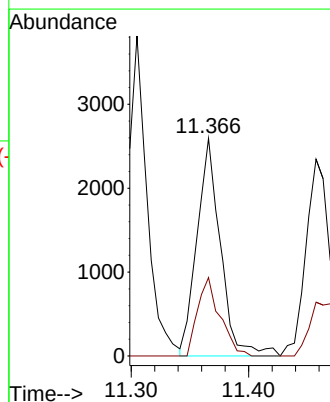
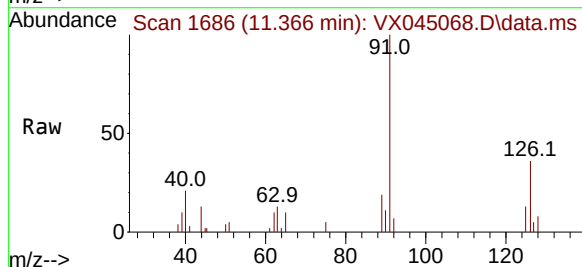
Manual Integrations
APPROVED

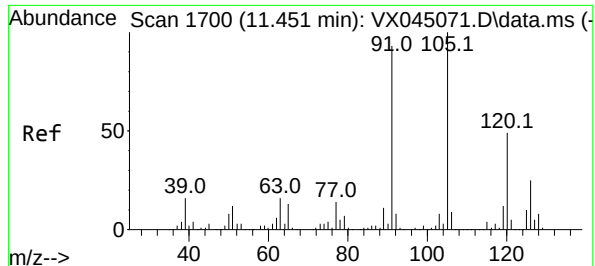
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#79
2-Chlorotoluene
Concen: 0.986 ug/l
RT: 11.366 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 91 Resp: 3616
Ion Ratio Lower Upper
91 100
126 34.2 16.4 49.4





#80

1,3,5-Trimethylbenzene

Concen: 0.815 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion:105 Resp: 3380

Ion Ratio Lower Upper

105 100

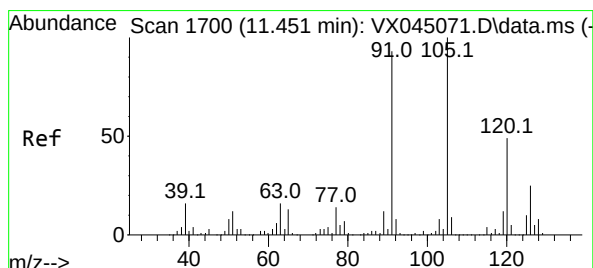
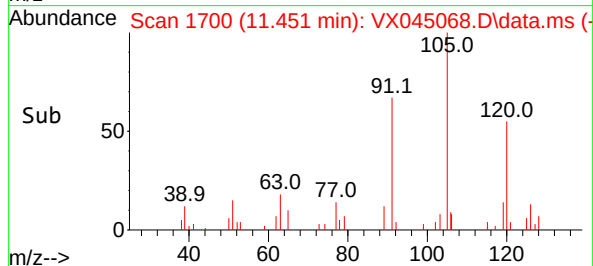
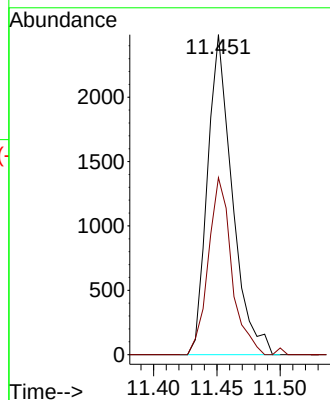
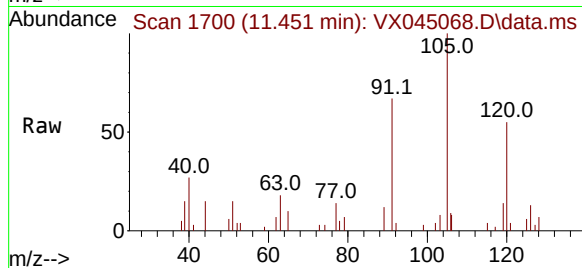
120 52.2 24.1 72.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#82

4-Chlorotoluene

Concen: 0.904 ug/l

RT: 11.457 min Scan# 1701

Delta R.T. 0.006 min

Lab File: VX045068.D

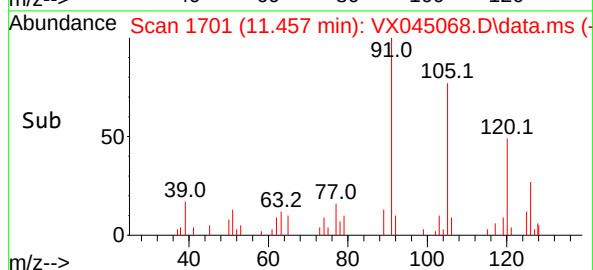
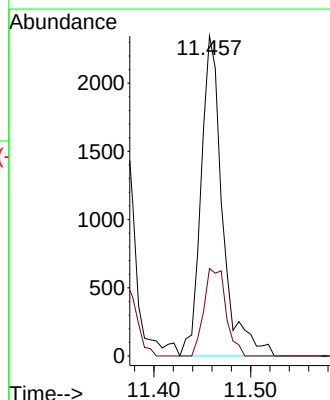
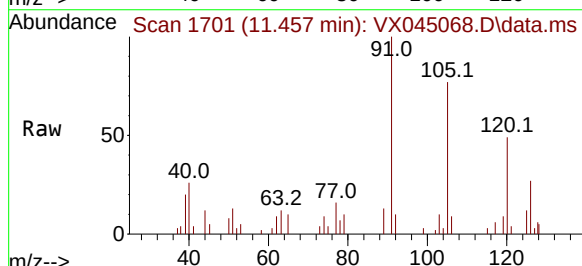
Acq: 28 Feb 2025 01:27

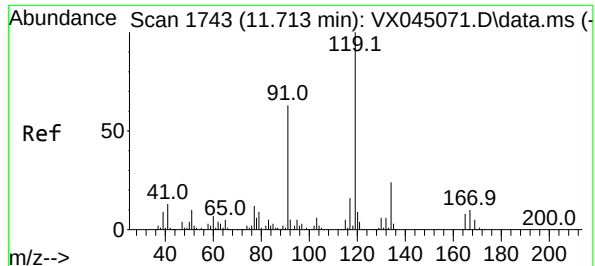
Tgt Ion: 91 Resp: 3631

Ion Ratio Lower Upper

91 100

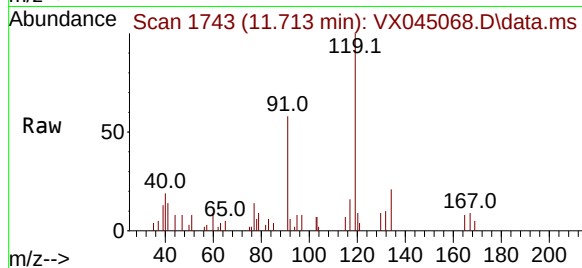
126 28.0 14.1 42.4





#83
tert-Butylbenzene
Concen: 0.929 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

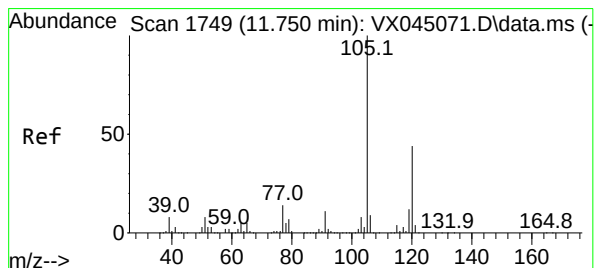
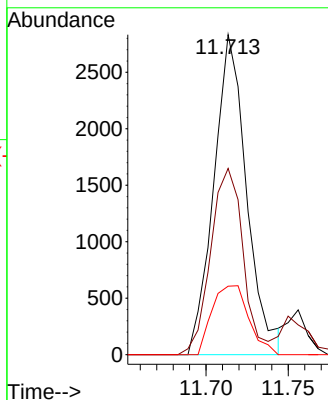
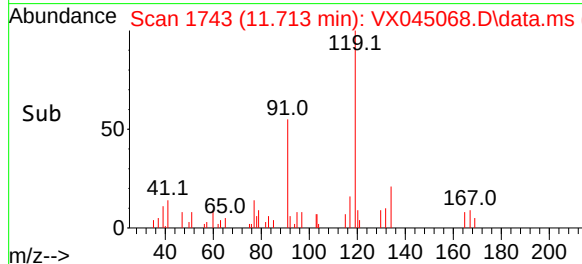
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



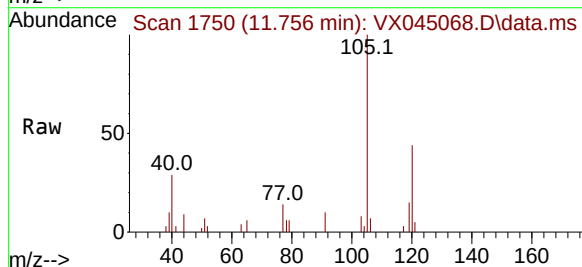
Tgt Ion:119 Resp: 3928
Ion Ratio Lower Upper
119 100
91 57.7 30.7 92.1
134 24.2 11.7 35.0

Manual Integrations
APPROVED

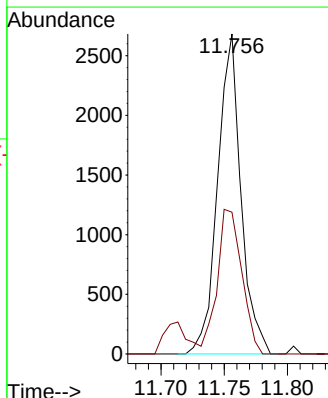
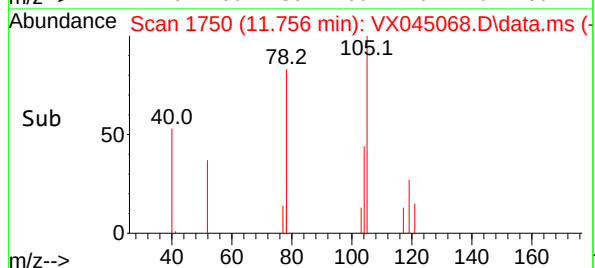
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

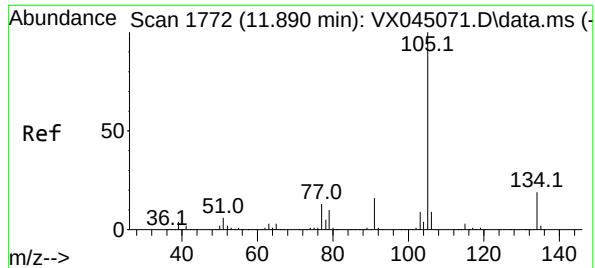


#84
1,2,4-Trimethylbenzene
Concen: 0.827 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27



Tgt Ion:105 Resp: 3432
Ion Ratio Lower Upper
105 100
120 47.5 22.1 66.1





#85

sec-Butylbenzene

Concen: 0.752 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

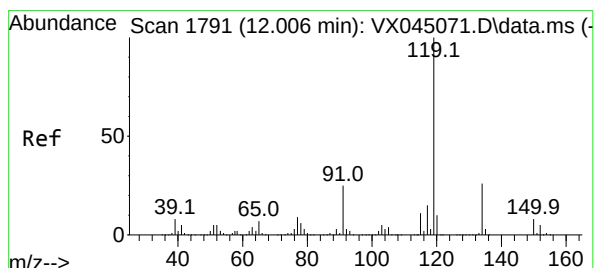
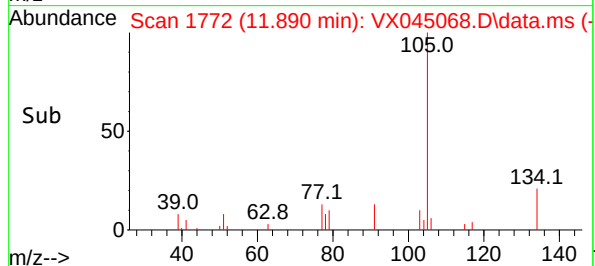
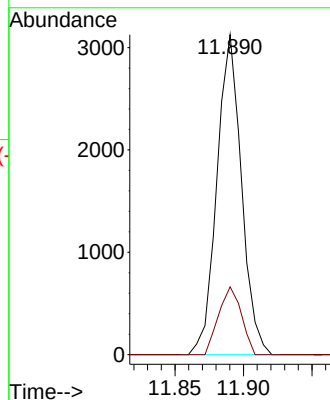
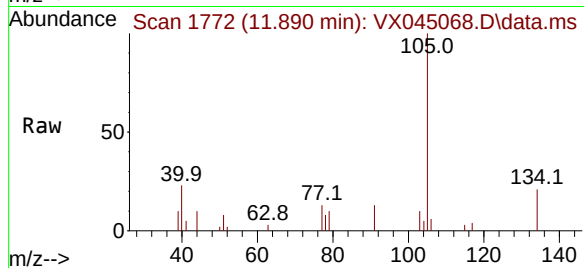
Tgt Ion:105 Resp: 389
Ion Ratio Lower Upper
105 100
134 19.5 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#86

p-Isopropyltoluene

Concen: 0.797 ug/l

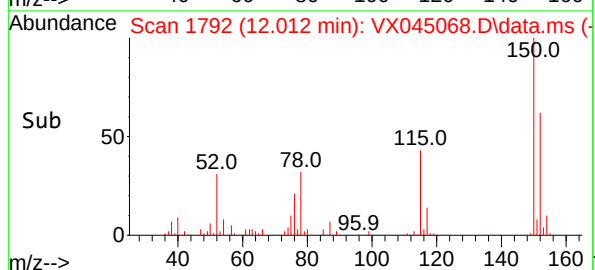
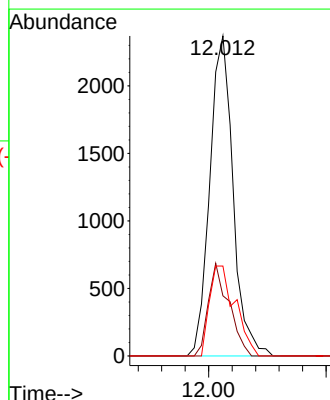
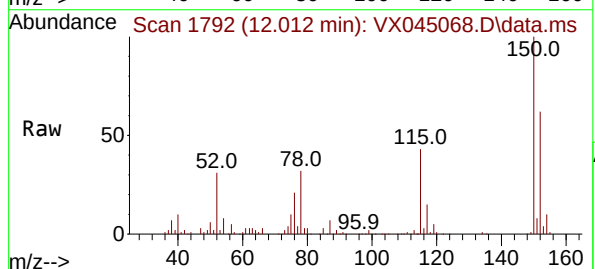
RT: 12.012 min Scan# 1792

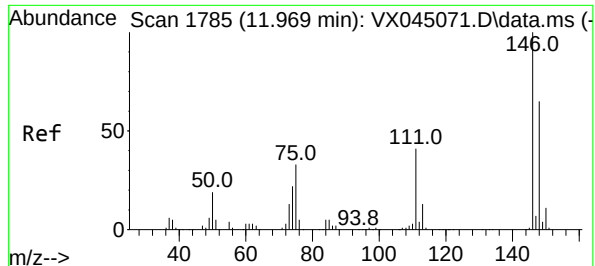
Delta R.T. 0.006 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Tgt Ion:119 Resp: 3257
Ion Ratio Lower Upper
119 100
134 25.6 12.9 38.6
91 30.9 12.7 38.0





#87

1,3-Dichlorobenzene

Concen: 0.913 ug/l

RT: 11.976 min Scan# 1786

Delta R.T. 0.006 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

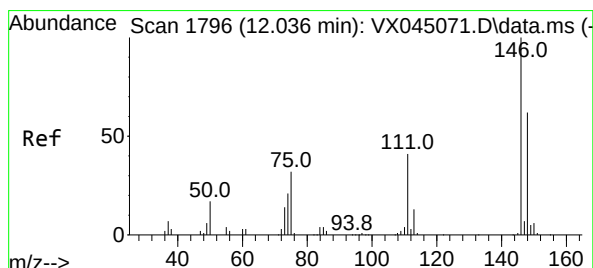
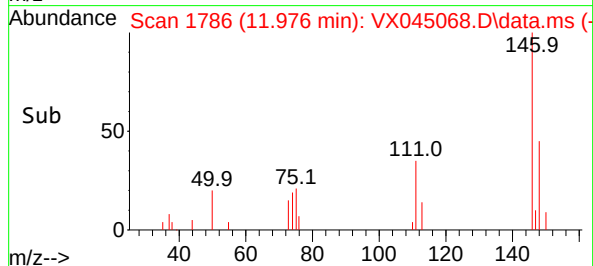
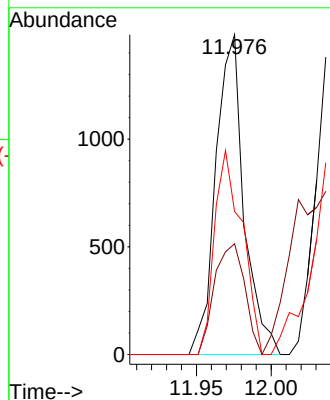
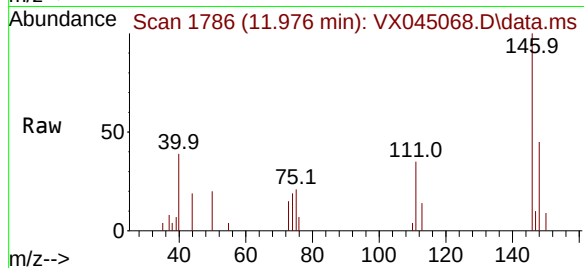
Tgt Ion:146	Resp:	1948
Ion Ratio	Lower	Upper
146	100	
111	37.1	21.1 63.4
148	62.4	31.9 95.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#88

1,4-Dichlorobenzene

Concen: 0.962 ug/l m

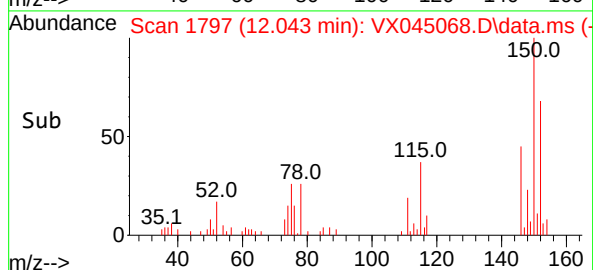
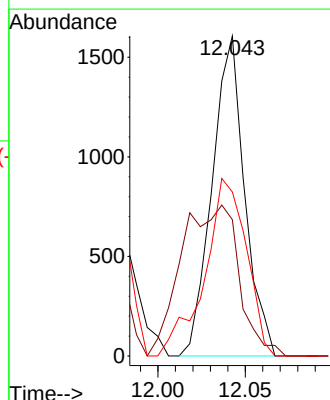
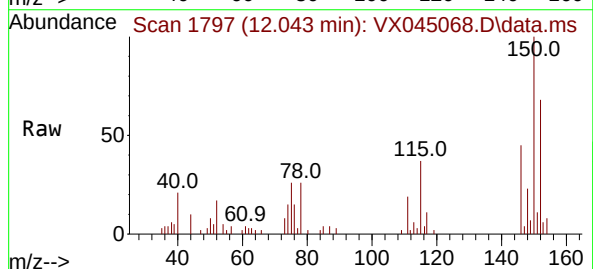
RT: 12.043 min Scan# 1797

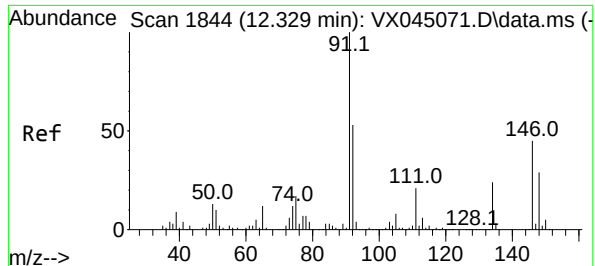
Delta R.T. 0.006 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Tgt Ion:146	Resp:	2082
Ion Ratio	Lower	Upper
146	100	
111	34.7	20.2 60.5
148	58.4	31.9 95.9





#89

n-Butylbenzene

Concen: 0.691 ug/l

RT: 12.335 min Scan# 1844

Delta R.T. 0.006 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

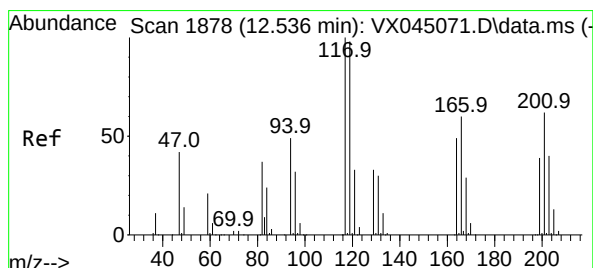
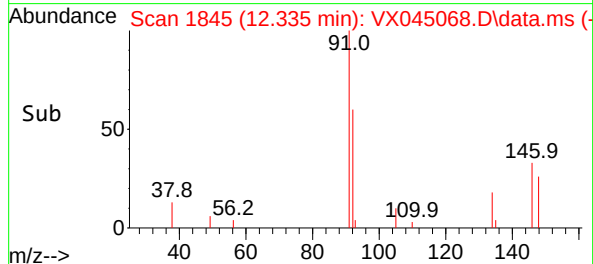
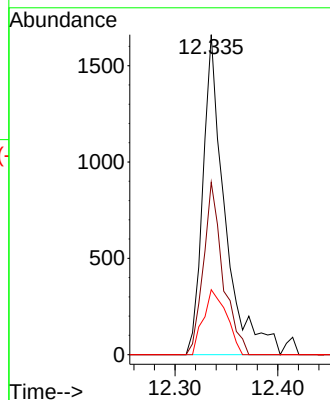
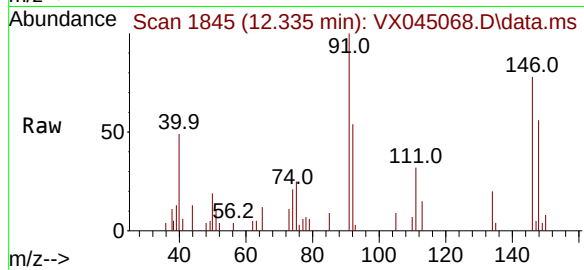
Tgt Ion:	91	Resp:	2470
Ion	Ratio	Lower	Upper
91	100		
92	48.0	26.7	80.0
134	21.4	12.2	36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#90

Hexachloroethane

Concen: 0.805 ug/l

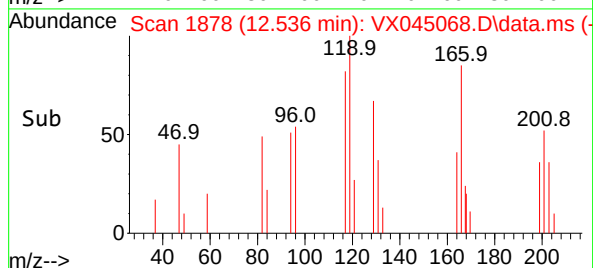
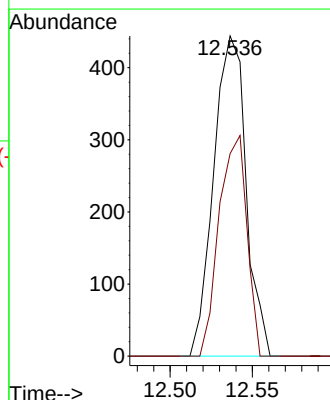
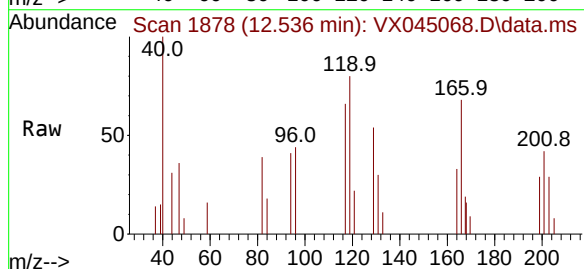
RT: 12.536 min Scan# 1878

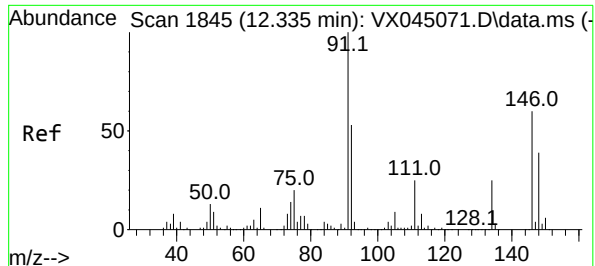
Delta R.T. 0.000 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

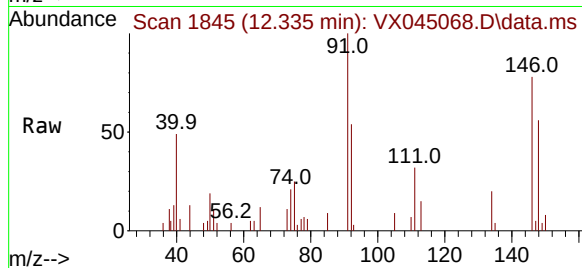
Tgt Ion:	117	Resp:	609
Ion	Ratio	Lower	Upper
117	100		
201	58.9	31.9	95.9





#91
1,2-Dichlorobenzene
Concen: 0.890 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

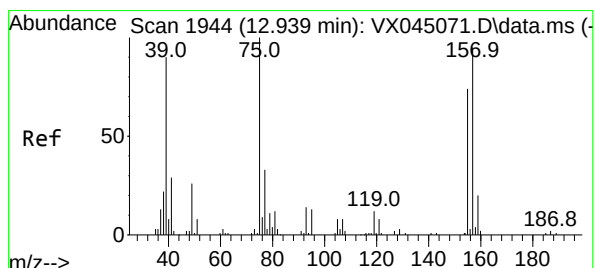
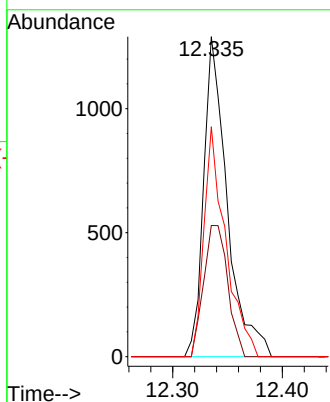
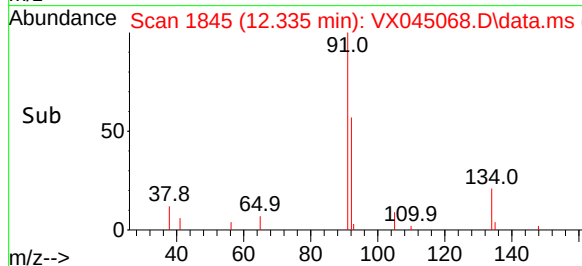
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion: 146 Resp: 1918
Ion Ratio Lower Upper
146 100
111 42.0 21.6 65.0
148 66.1 31.9 95.9

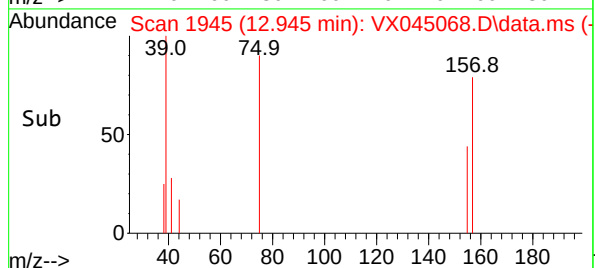
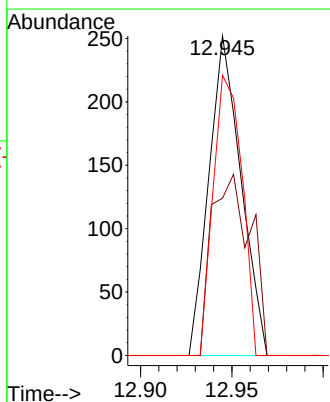
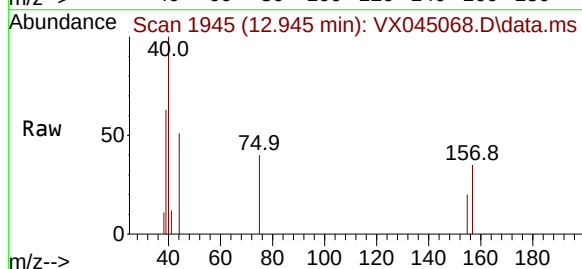
Manual Integrations
APPROVED

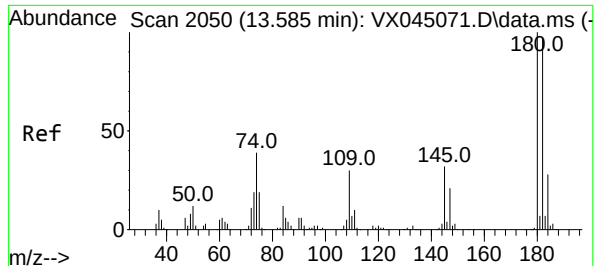
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.859 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 75 Resp: 308
Ion Ratio Lower Upper
75 100
155 69.2 39.6 118.7
157 78.6 51.1 153.4





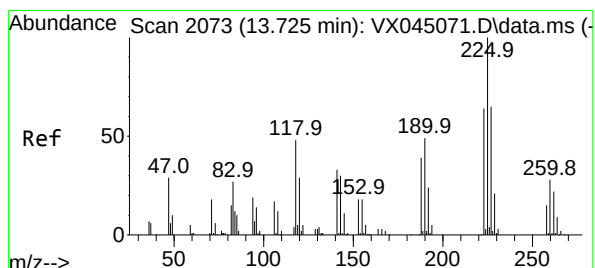
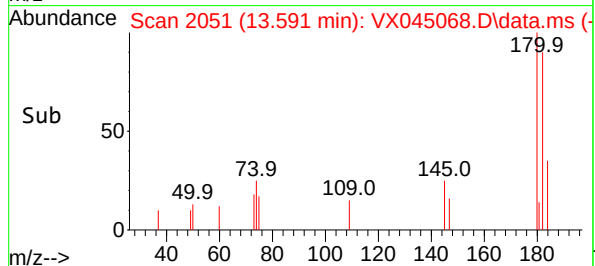
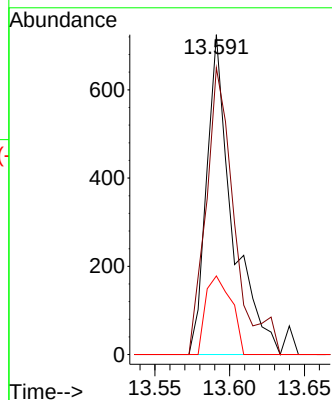
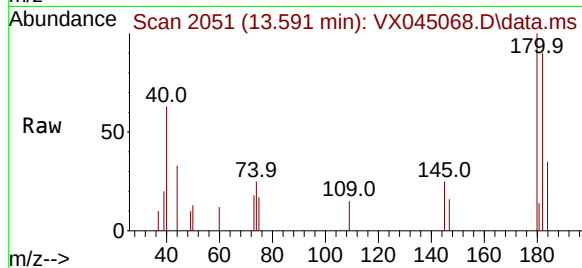
#93
1,2,4-Trichlorobenzene
Concen: 0.706 ug/l
RT: 13.591 min Scan# 2051
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

Tgt Ion:180 Resp: 860
Ion Ratio Lower Upper
180 100
182 98.7 47.3 141.9
145 24.5 16.3 48.9

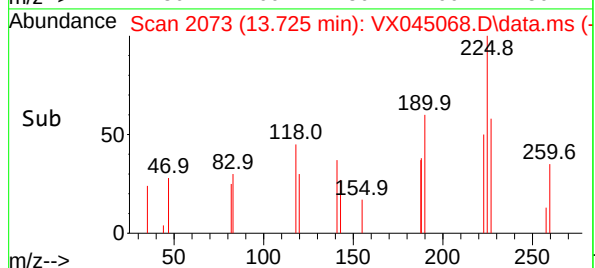
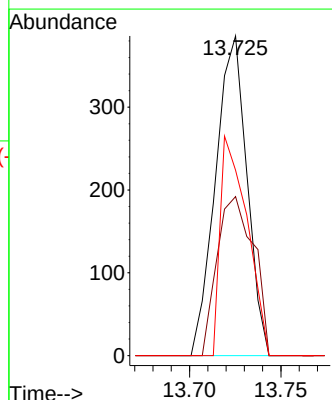
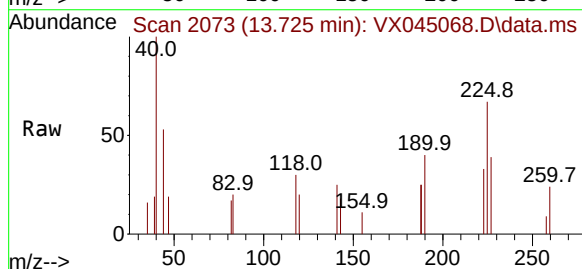
Manual Integrations
APPROVED

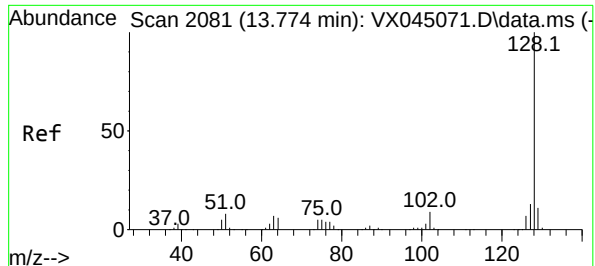
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#94
Hexachlorobutadiene
Concen: 0.917 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

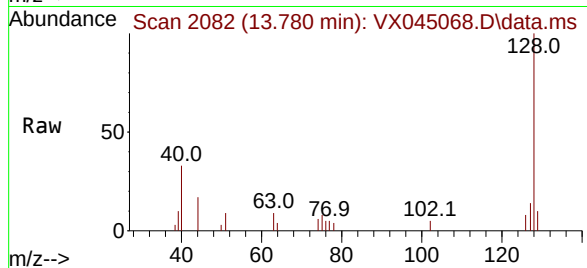
Tgt Ion:225 Resp: 462
Ion Ratio Lower Upper
225 100
223 57.8 31.9 95.7
227 58.7 31.4 94.0





#95
Naphthalene
Concen: 0.707 ug/l
RT: 13.780 min Scan# 2081
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

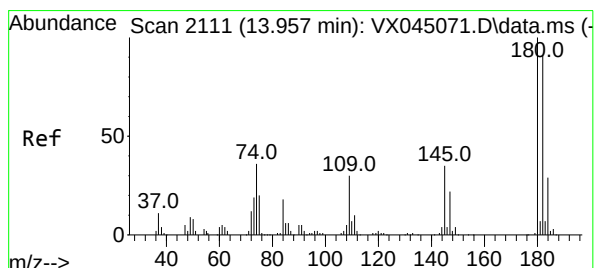
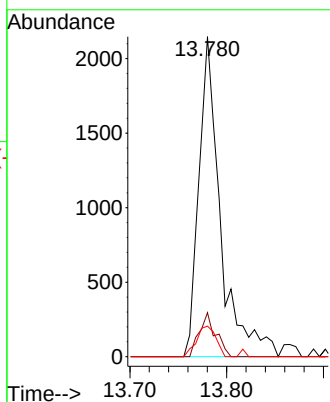
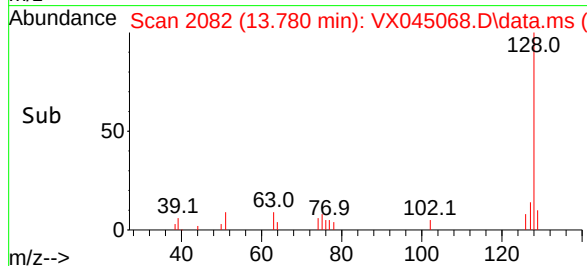
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion:128 Resp: 333
Ion Ratio Lower Upper
128 100
127 10.5 10.3 15.5
129 8.6 8.7 13.1

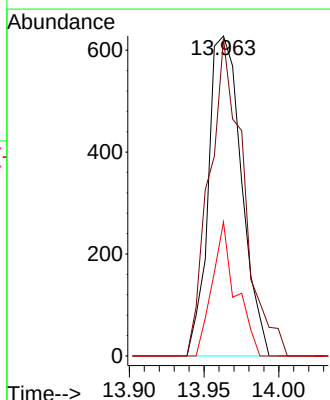
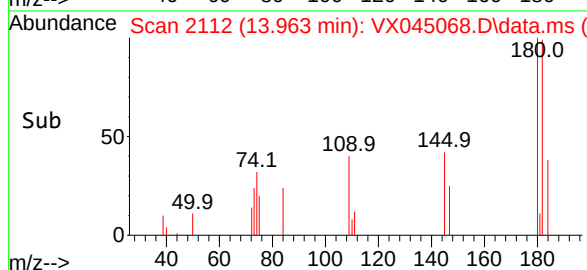
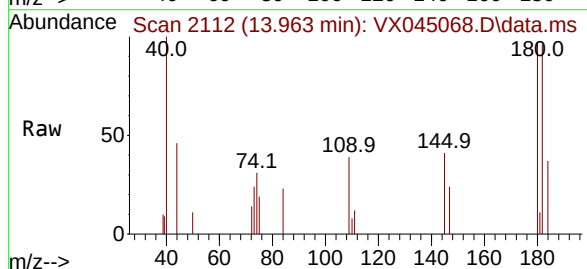
Manual Integrations
APPROVED

Reviewed By :John Carbone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 0.759 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:180 Resp: 969
Ion Ratio Lower Upper
180 100
182 102.3 47.5 142.6
145 29.8 17.0 50.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
 Data File : VX045069.D
 Acq On : 28 Feb 2025 02:13
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Quant Time: Feb 28 05:32:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 05:28:02 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 02/28/2025
 Supervised By : Mahesh Dadoda 02/28/2025

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	107391	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	194243	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	172367	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	73591	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	8978	5.659	ug/l	0.01
Spiked Amount 50.000	Range 74 - 125		Recovery =	11.320%#		
35) Dibromofluoromethane	5.391	113	6398	5.039	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.080%#		
50) Toluene-d8	8.647	98	24037	5.057	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.120%#		
62) 4-Bromofluorobenzene	11.079	95	7436	4.685	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.360%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	6941	4.689	ug/l	96
3) Chloromethane	1.307	50	8819	4.896	ug/l	99
4) Vinyl Chloride	1.374	62	8106	4.608	ug/l	94
5) Bromomethane	1.593	94	3620	6.582	ug/l	96
6) Chloroethane	1.660	64	4517	6.746	ug/l	91
7) Trichlorofluoromethane	1.867	101	11392	5.056	ug/l	95
8) Diethyl Ether	2.136	74	4314	5.268	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	6586	4.894	ug/l	98
10) Methyl Iodide	2.441	142	6520	3.780	ug/l	95
11) Tert butyl alcohol	2.983	59	10164m	34.976	ug/l	
12) 1,1-Dichloroethene	2.313	96	6658	4.819	ug/l	94
13) Acrolein	2.233	56	8725	27.725	ug/l	97
14) Allyl chloride	2.654	41	11244	4.527	ug/l	96
15) Acrylonitrile	3.068	53	21381	27.072	ug/l	99
16) Acetone	2.386	43	19512	29.891	ug/l	97
17) Carbon Disulfide	2.502	76	16984	4.518	ug/l	99
18) Methyl Acetate	2.703	43	8964	4.559	ug/l	97
19) Methyl tert-butyl Ether	3.117	73	20546	4.651	ug/l	95
20) Methylene Chloride	2.782	84	7835	5.068	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	6651	4.895	ug/l	94
22) Diisopropyl ether	3.763	45	23151	4.875	ug/l #	82
23) Vinyl Acetate	3.721	43	88852	22.788	ug/l	98
24) 1,1-Dichloroethane	3.605	63	13132	4.949	ug/l	99
25) 2-Butanone	4.574	43	29277	27.819	ug/l	99
26) 2,2-Dichloropropane	4.471	77	6034	3.059	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	8012	4.892	ug/l	97
28) Bromochloromethane	4.904	49	6797	5.311	ug/l #	96
29) Tetrahydrofuran	5.013	42	20186	28.950	ug/l	99
30) Chloroform	5.093	83	13390	5.159	ug/l	96
31) Cyclohexane	5.464	56	10968	4.504	ug/l	95
32) 1,1,1-Trichloroethane	5.385	97	10654	4.876	ug/l	100
36) 1,1-Dichloropropene	5.690	75	8977	4.917	ug/l #	83
37) Ethyl Acetate	4.727	43	10459	5.035	ug/l	98
38) Carbon Tetrachloride	5.666	117	8997	5.013	ug/l	95
39) Methylcyclohexane	7.379	83	10291	4.414	ug/l	97
40) Benzene	6.037	78	28339	4.966	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
 Data File : VX045069.D
 Acq On : 28 Feb 2025 02:13
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/28/2025
 Supervised By : Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 05:32:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 05:28:02 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	5700	5.136	ug/l	95
42) 1,2-Dichloroethane	6.092	62	10189	5.510	ug/l	98
43) Isopropyl Acetate	6.348	43	15543	4.700	ug/l	99
44) Trichloroethene	7.129	130	6827	5.234	ug/l	99
45) 1,2-Dichloropropane	7.427	63	7342	5.177	ug/l	95
46) Dibromomethane	7.586	93	5146	5.195	ug/l	97
47) Bromodichloromethane	7.824	83	9773	5.100	ug/l	99
48) Methyl methacrylate	7.696	41	8201	5.224	ug/l	95
49) 1,4-Dioxane	7.665	88	3531	105.826	ug/l	95
51) 4-Methyl-2-Pentanone	8.574	43	55320	27.303	ug/l	99
52) Toluene	8.720	92	16933	4.997	ug/l	99
53) t-1,3-Dichloropropene	8.982	75	7548	3.985	ug/l	94
54) cis-1,3-Dichloropropene	8.366	75	8988	4.244	ug/l	92
55) 1,1,2-Trichloroethane	9.153	97	6759	5.151	ug/l	97
56) Ethyl methacrylate	9.116	69	9712	4.628	ug/l	98
57) 1,3-Dichloropropane	9.305	76	12106	5.289	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	23212	22.527	ug/l	99
59) 2-Hexanone	9.433	43	39994	27.363	ug/l	99
60) Dibromochloromethane	9.519	129	6785	4.846	ug/l	98
61) 1,2-Dibromoethane	9.610	107	6832	5.161	ug/l	95
64) Tetrachloroethene	9.269	164	5615	5.128	ug/l	93
65) Chlorobenzene	10.079	112	18161	4.908	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	5702	4.781	ug/l	96
67) Ethyl Benzene	10.195	91	30918	4.725	ug/l	98
68) m/p-Xylenes	10.299	106	23152	9.608	ug/l	97
69) o-Xylene	10.640	106	11881	4.914	ug/l	95
70) Styrene	10.659	104	18278	4.704	ug/l	99
71) Bromoform	10.799	173	4027	4.541	ug/l #	98
73) Isopropylbenzene	10.963	105	29685	4.991	ug/l	98
74) N-amyl acetate	10.848	43	11609	4.300	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.213	83	10881	5.310	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	8839m	5.384	ug/l	
77) Bromobenzene	11.195	156	6970	5.163	ug/l	96
78) n-propylbenzene	11.305	91	32196	4.694	ug/l	99
79) 2-Chlorotoluene	11.366	91	21253	5.048	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	23627	4.897	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	1971	3.256	ug/l #	83
82) 4-Chlorotoluene	11.457	91	22190	4.761	ug/l	98
83) tert-Butylbenzene	11.713	119	23960	4.910	ug/l	97
84) 1,2,4-Trimethylbenzene	11.750	105	23561	4.960	ug/l	99
85) sec-Butylbenzene	11.890	105	28314	4.687	ug/l	99
86) p-Isopropyltoluene	12.006	119	21977	4.532	ug/l	97
87) 1,3-Dichlorobenzene	11.969	146	12157	4.926	ug/l	98
88) 1,4-Dichlorobenzene	12.042	146	12526	5.014	ug/l	96
89) n-Butylbenzene	12.335	91	17358	4.072	ug/l	99
90) Hexachloroethane	12.536	117	3665	4.052	ug/l	96
91) 1,2-Dichlorobenzene	12.335	146	12477	5.138	ug/l	95
92) 1,2-Dibromo-3-Chloropr...	12.945	75	1787	4.712	ug/l	90
93) 1,2,4-Trichlorobenzene	13.591	180	6040	4.114	ug/l	97
94) Hexachlorobutadiene	13.725	225	2716	4.640	ug/l	97
95) Naphthalene	13.780	128	22927	4.287	ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	6600	4.437	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045069.D
Acq On : 28 Feb 2025 02:13
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 05:32:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

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

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

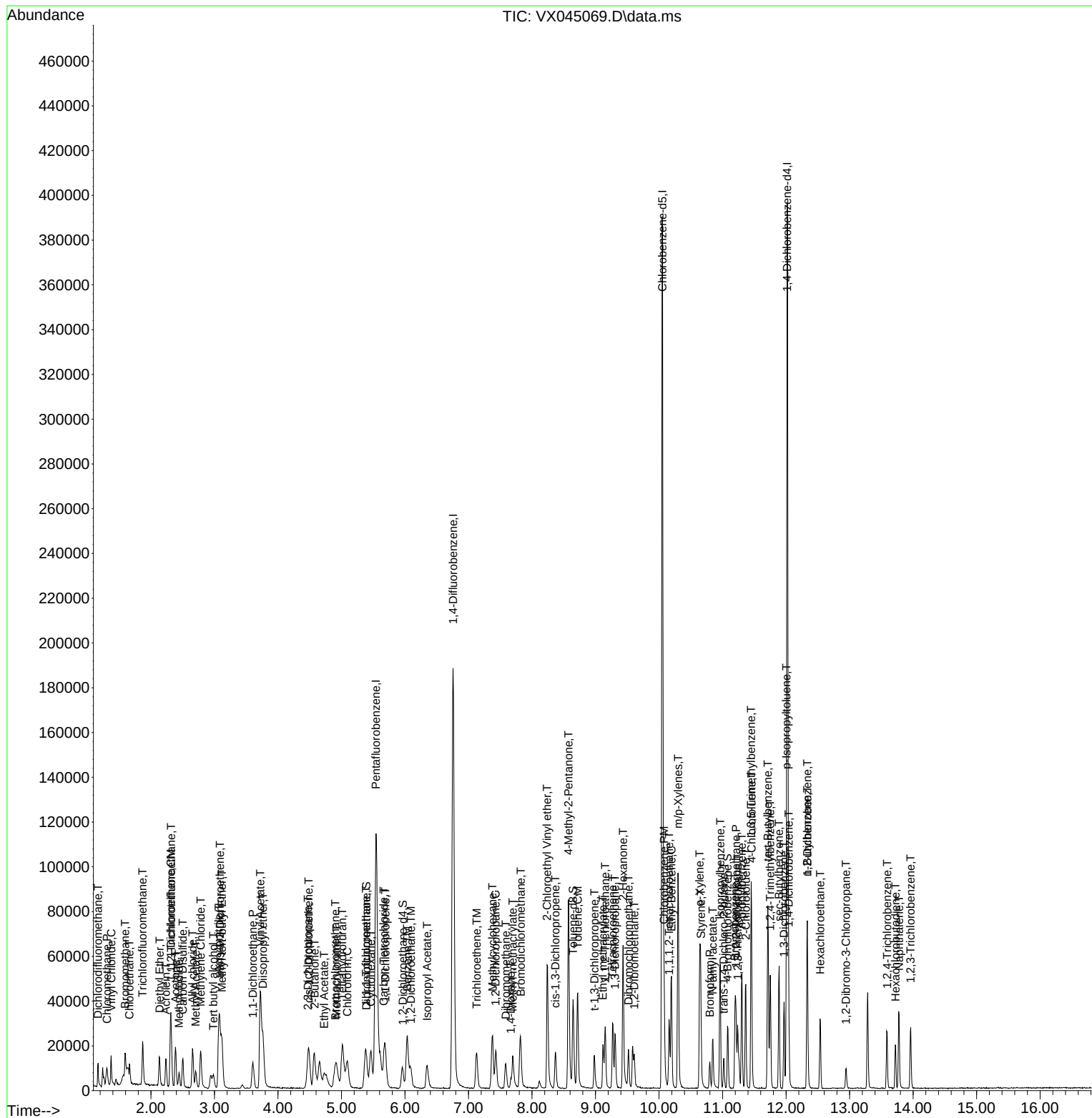
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Data File : VX045069.D  
Acq On    : 28 Feb 2025   02:13  
Operator  : JC/MD  
Sample    : VSTDIC005  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 18   Sample Multiplier: 1
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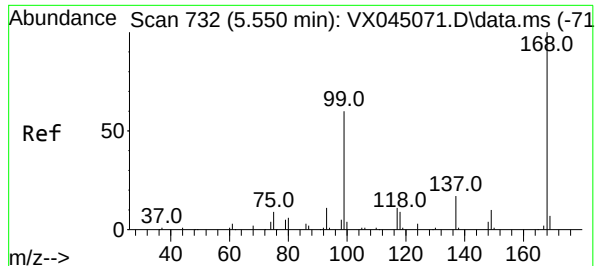
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

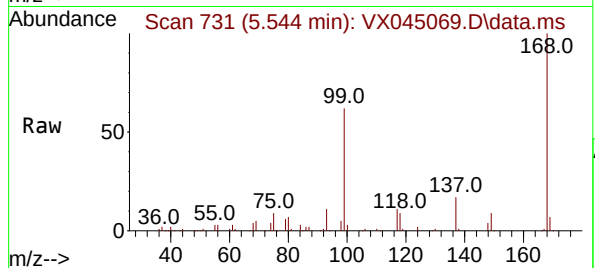
Quant Time: Feb 28 05:32:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

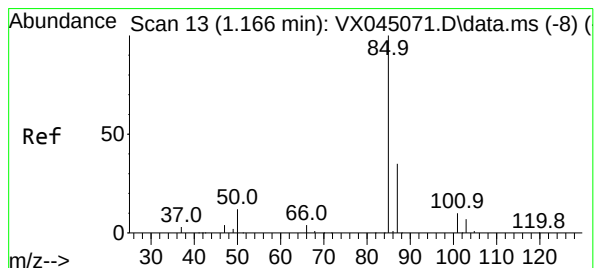
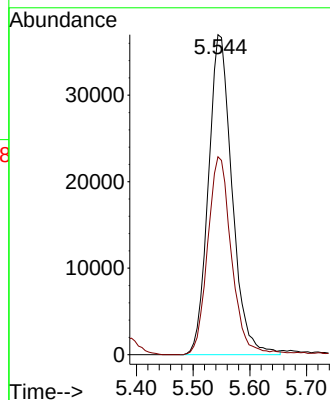
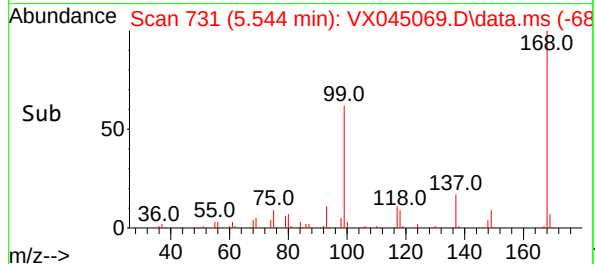
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion:168 Resp: 10739
Ion Ratio Lower Upper
168 100
99 61.8 48.2 72.4

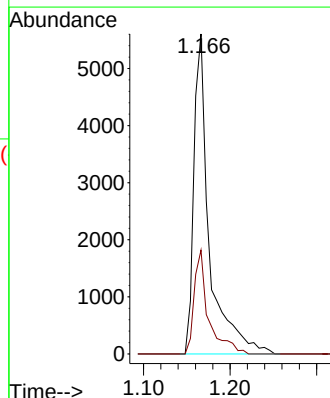
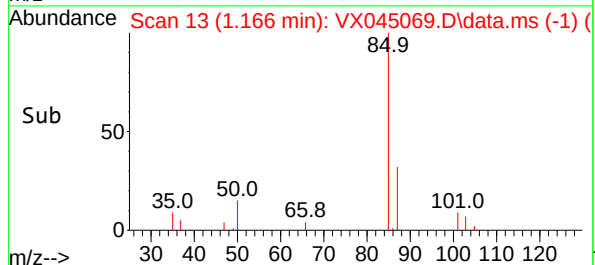
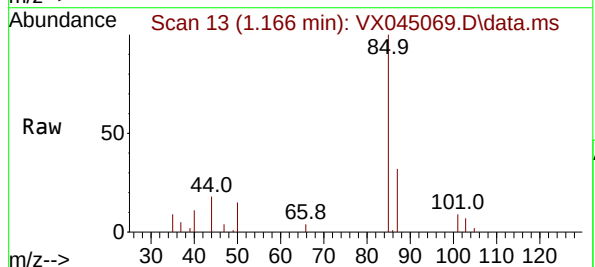
Manual Integrations
APPROVED

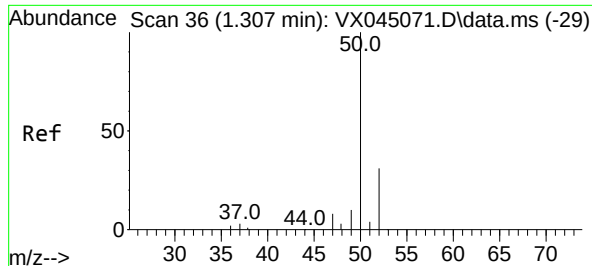
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#2
Dichlorodifluoromethane
Concen: 4.689 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 85 Resp: 6941
Ion Ratio Lower Upper
85 100
87 32.4 17.4 52.3





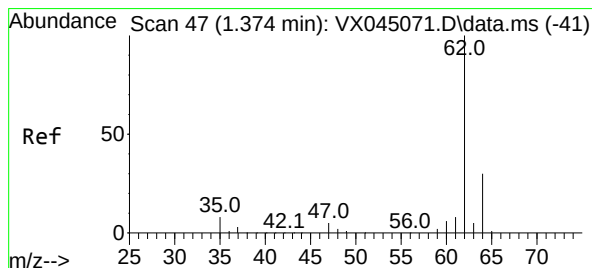
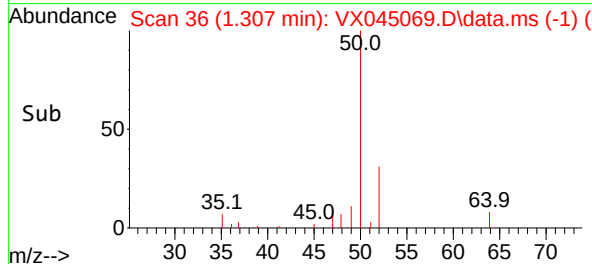
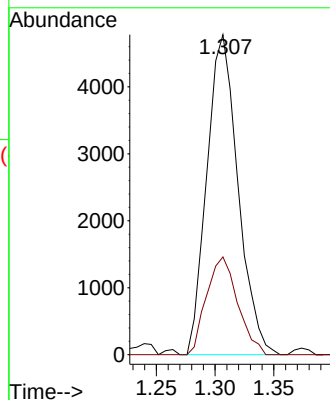
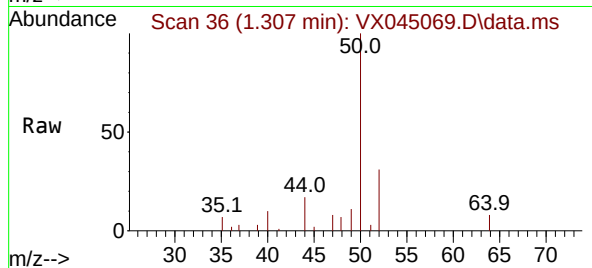
#3
Chloromethane
Concen: 4.896 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion: 50 Resp: 8819
Ion Ratio Lower Upper
50 100
52 30.6 25.0 37.4

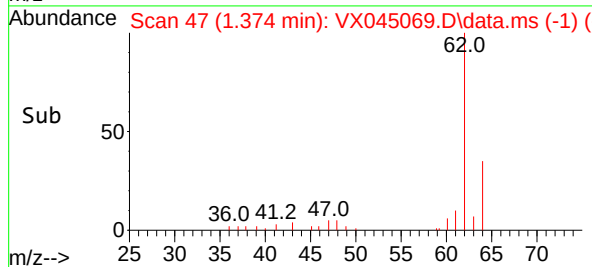
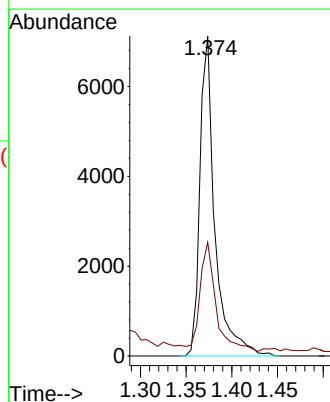
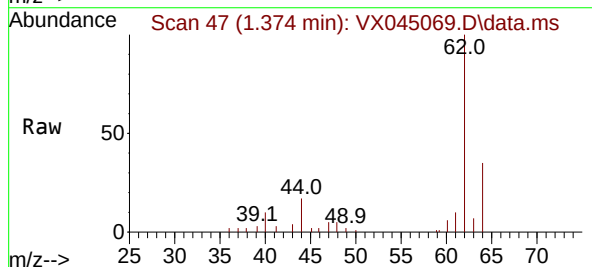
Manual Integrations
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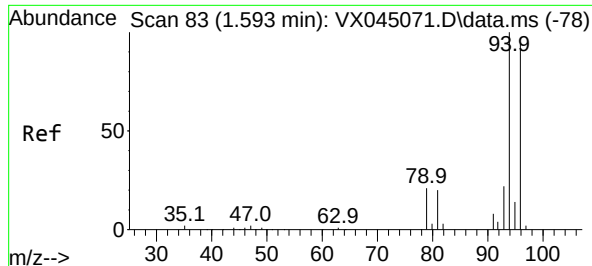
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#4
Vinyl Chloride
Concen: 4.608 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 62 Resp: 8106
Ion Ratio Lower Upper
62 100
64 33.9 24.3 36.5





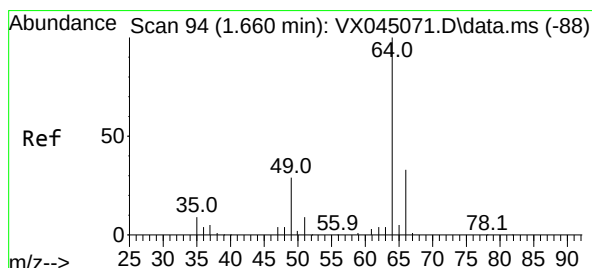
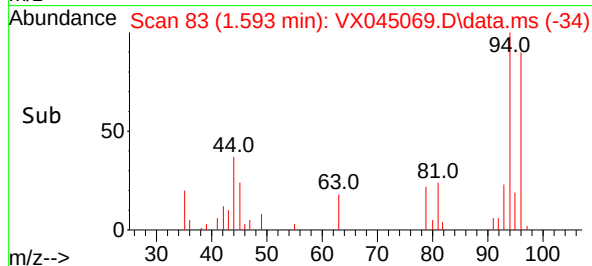
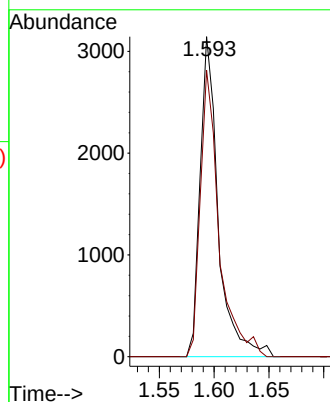
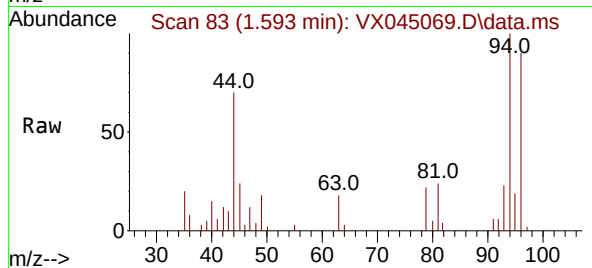
#5
Bromomethane
Concen: 6.582 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion: 94 Resp: 3620
Ion Ratio Lower Upper
94 100
96 89.5 75.0 112.4

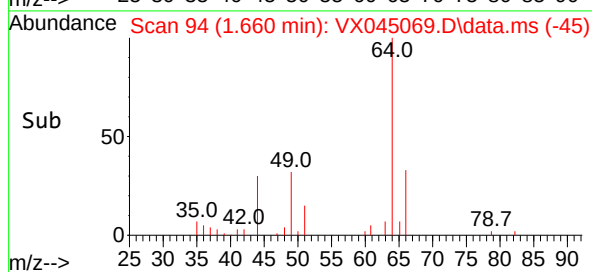
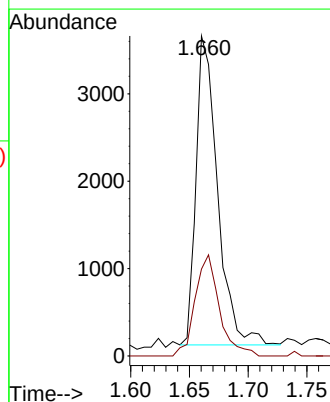
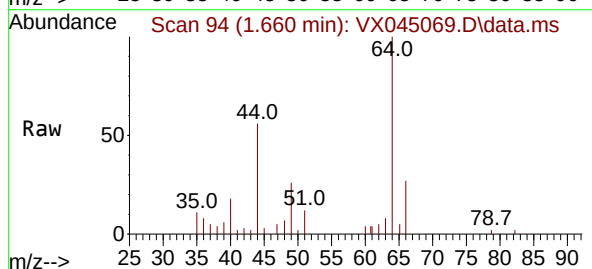
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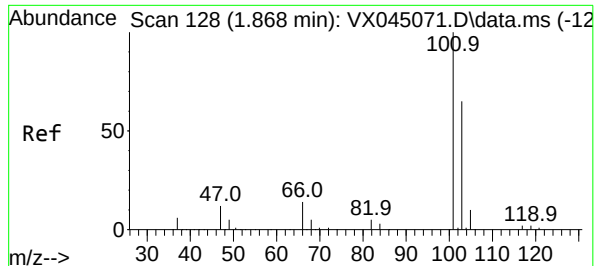
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#6
Chloroethane
Concen: 6.746 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

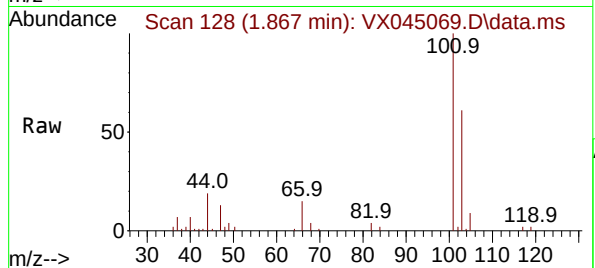
Tgt Ion: 64 Resp: 4517
Ion Ratio Lower Upper
64 100
66 28.1 26.7 40.1





#7
Trichlorofluoromethane
Concen: 5.056 ug/l
RT: 1.867 min Scan# 1139
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

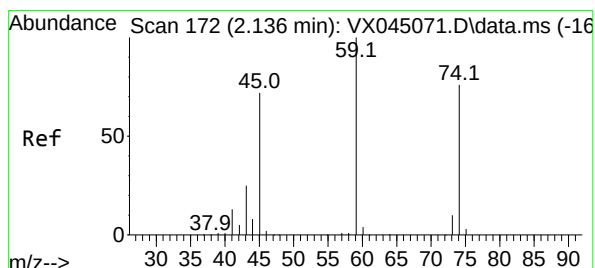
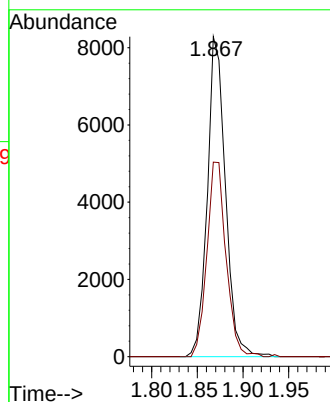
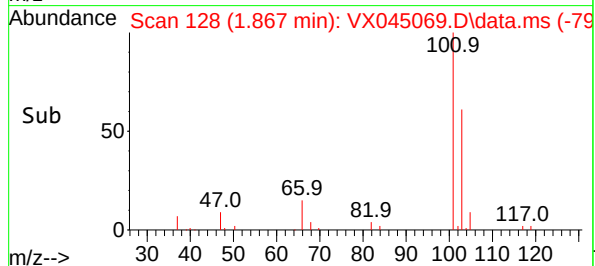
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion:101 Resp: 1139
Ion Ratio Lower Upper
101 100
103 60.8 52.1 78.1

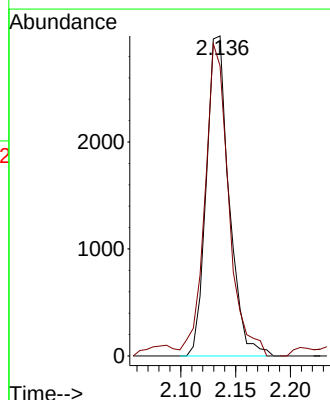
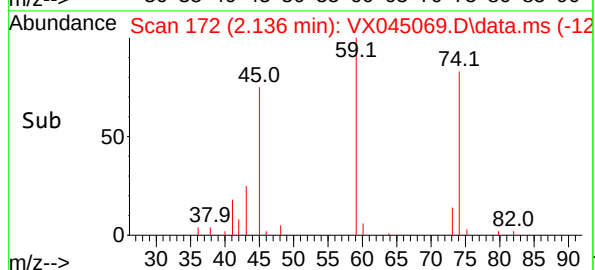
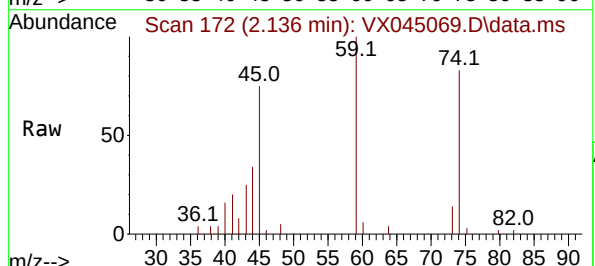
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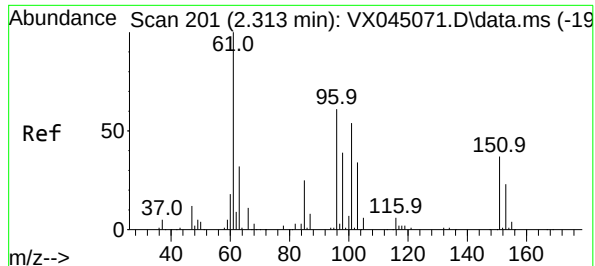
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#8
Diethyl Ether
Concen: 5.268 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 74 Resp: 4314
Ion Ratio Lower Upper
74 100
45 101.9 51.5 154.5





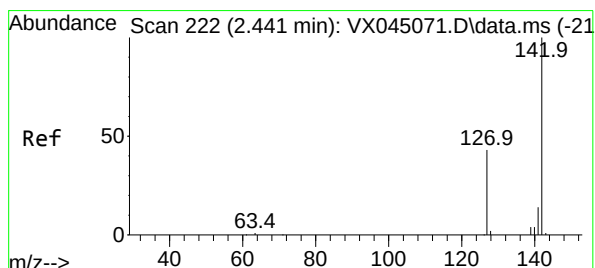
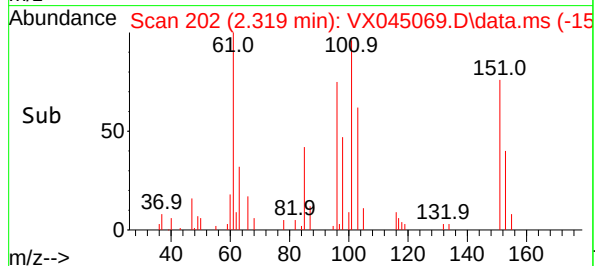
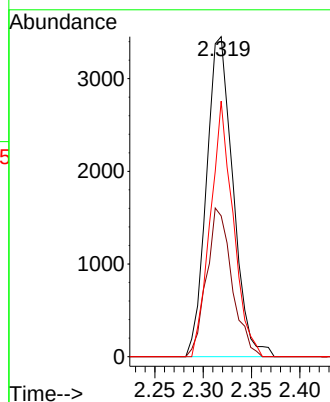
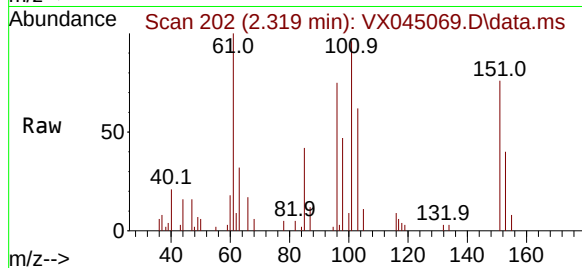
#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.894 ug/l
RT: 2.319 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 6580
Ion Ratio Lower Upper
101 100
85 44.4 36.2 54.4
151 69.0 56.4 84.6

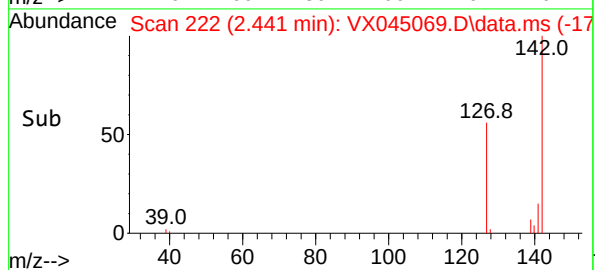
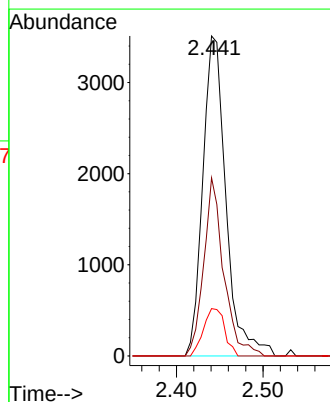
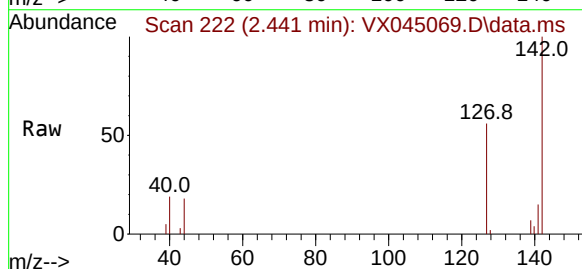
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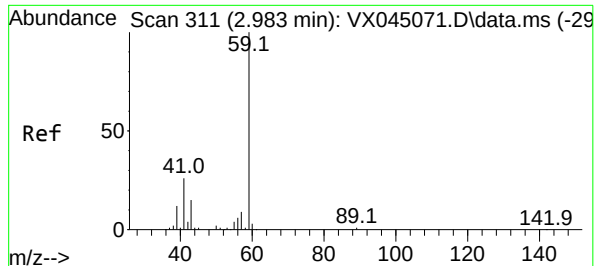
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#10
Methyl Iodide
Concen: 3.780 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:142 Resp: 6520
Ion Ratio Lower Upper
142 100
127 48.1 35.4 53.2
141 13.5 11.6 17.4





#11

Tert butyl alcohol

Concen: 34.976 ug/l m

RT: 2.983 min Scan# 311

Delta R.T. -0.000 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 10164

Ion Ratio Lower Upper

59 100

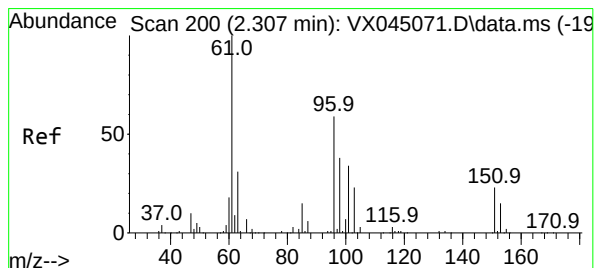
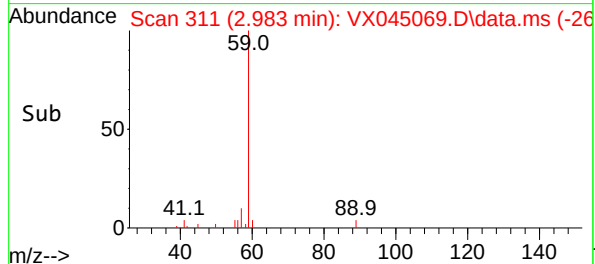
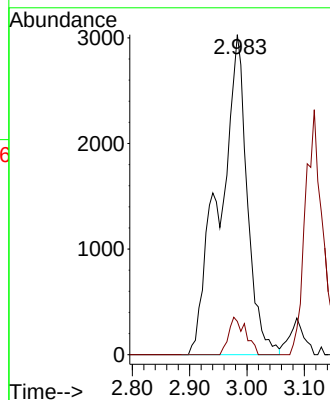
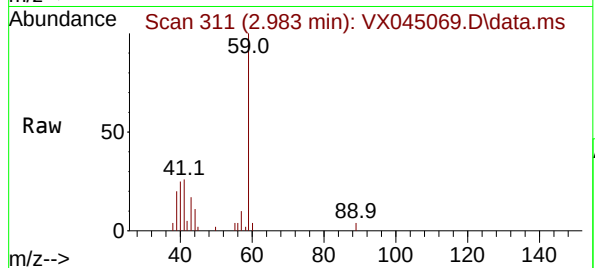
57 7.2 7.8 11.8

Manual Integrations

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Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#12

1,1-Dichloroethene

Concen: 4.819 ug/l

RT: 2.313 min Scan# 201

Delta R.T. 0.006 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

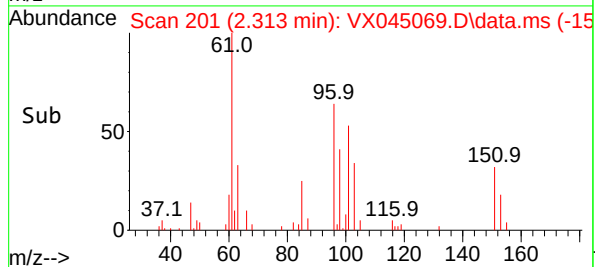
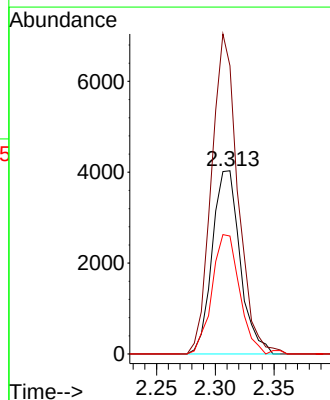
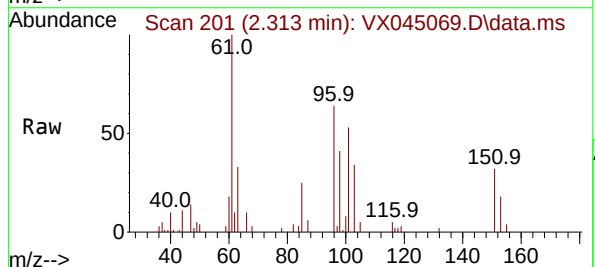
Tgt Ion: 96 Resp: 6658

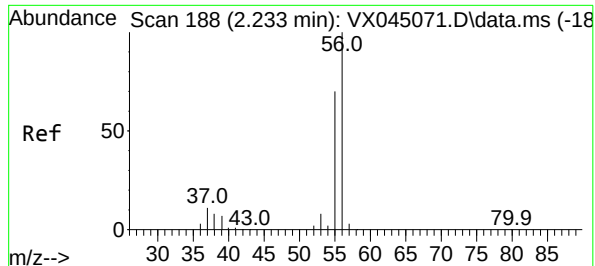
Ion Ratio Lower Upper

96 100

61 157.3 134.6 202.0

98 64.3 51.0 76.6





#13

Acrolein

Concen: 27.725 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.000 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 8725

Ion Ratio Lower Upper

56 100

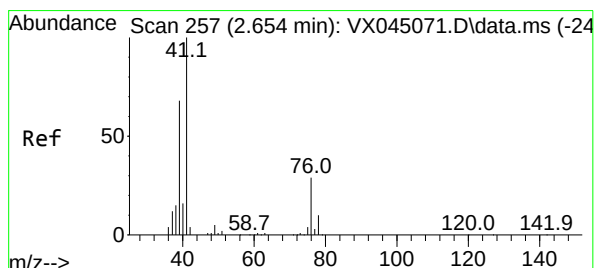
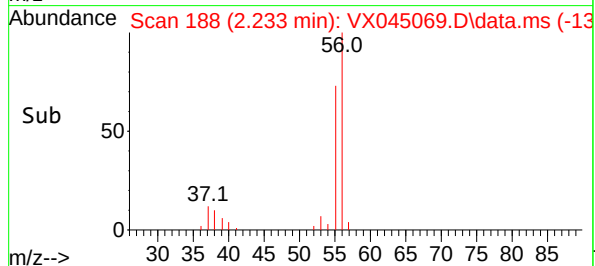
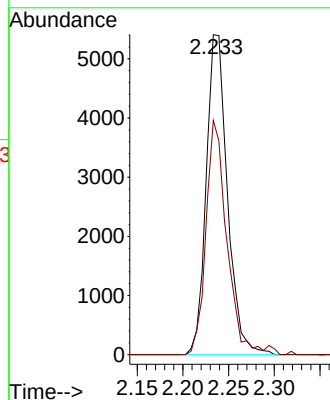
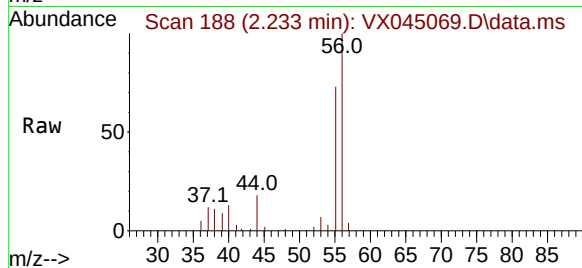
55 72.4 56.2 84.4

Manual Integrations

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Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#14

Allyl chloride

Concen: 4.527 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.000 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

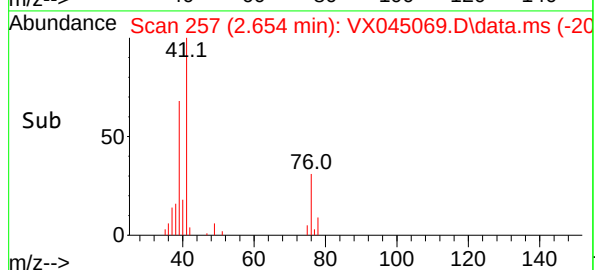
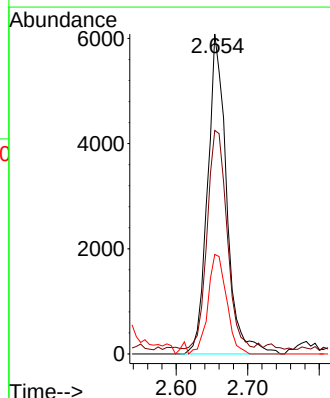
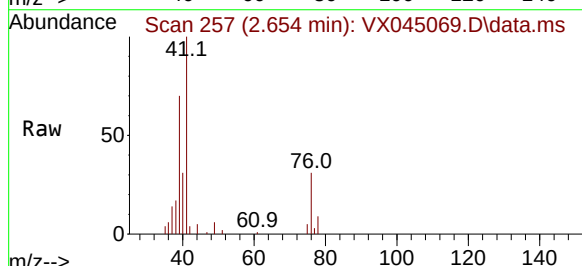
Tgt Ion: 41 Resp: 11244

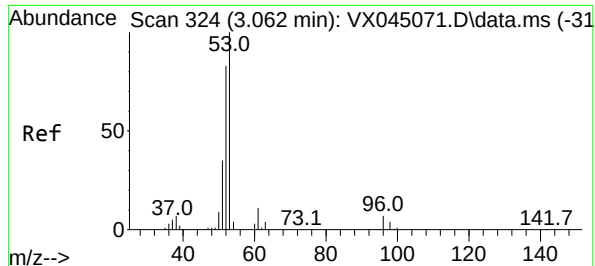
Ion Ratio Lower Upper

41 100

39 70.8 53.8 80.8

76 30.4 25.2 37.8





#15

Acrylonitrile

Concen: 27.072 ug/l

RT: 3.068 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

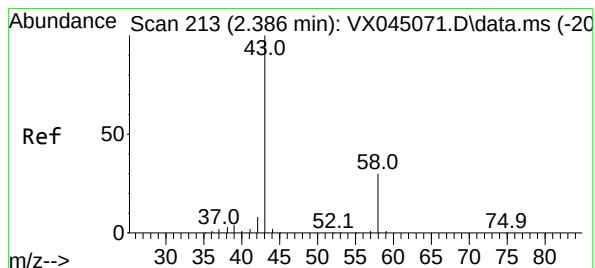
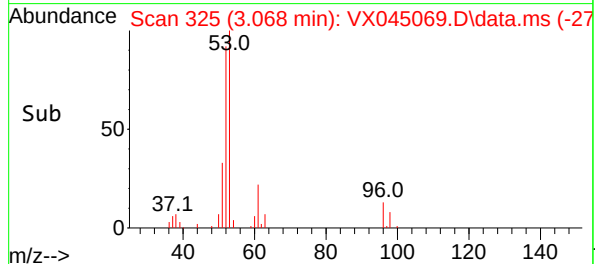
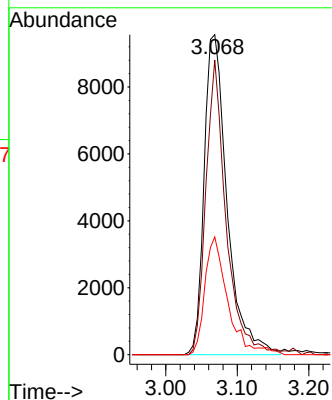
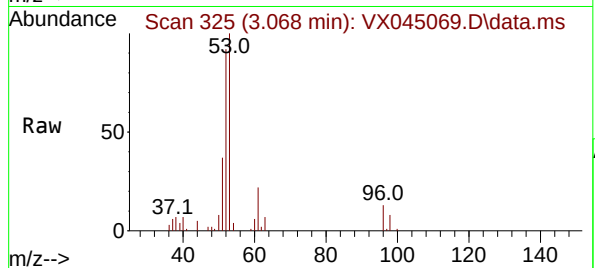
Tgt Ion: 53	Resp: 2138
Ion Ratio	Lower Upper
53 100	
52 81.1	66.2 99.2
51 36.7	29.0 43.4

Manual Integrations

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Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#16

Acetone

Concen: 29.891 ug/l

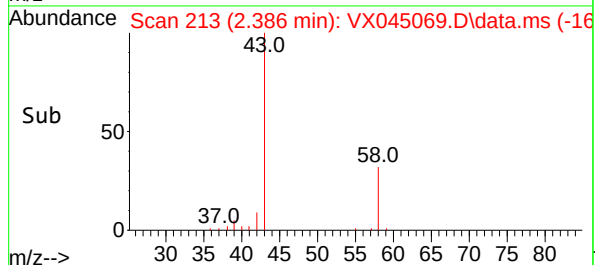
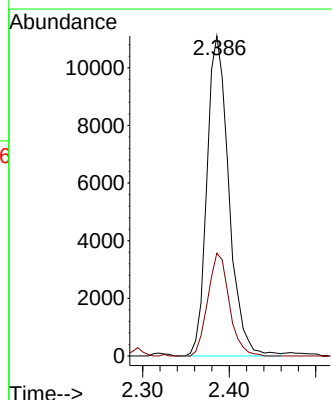
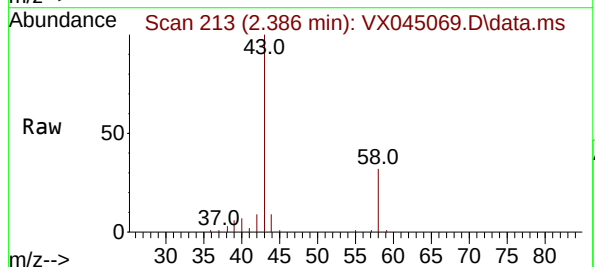
RT: 2.386 min Scan# 213

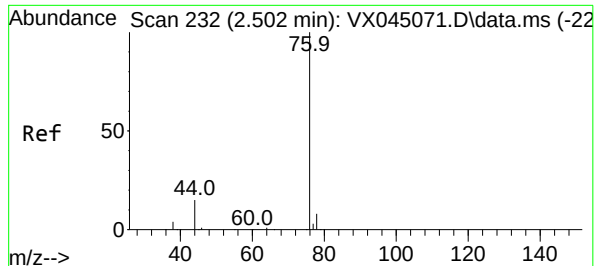
Delta R.T. -0.000 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

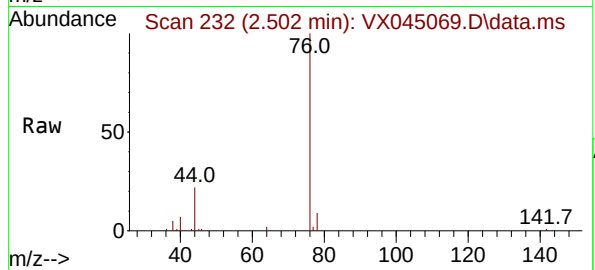
Tgt Ion: 43	Resp: 19512
Ion Ratio	Lower Upper
43 100	
58 32.1	24.2 36.4





#17
Carbon Disulfide
Concen: 4.518 ug/l
RT: 2.502 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

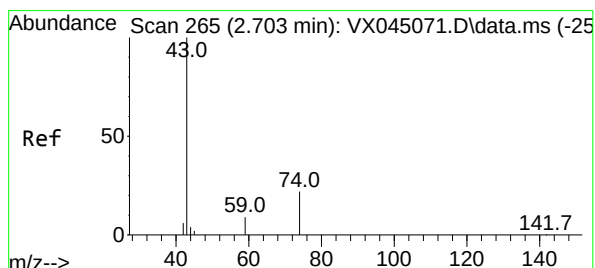
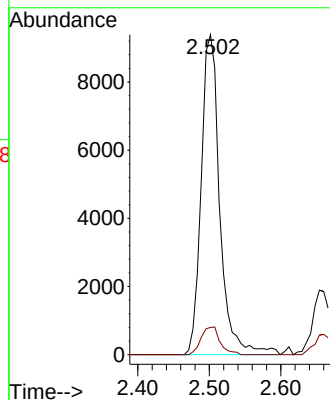
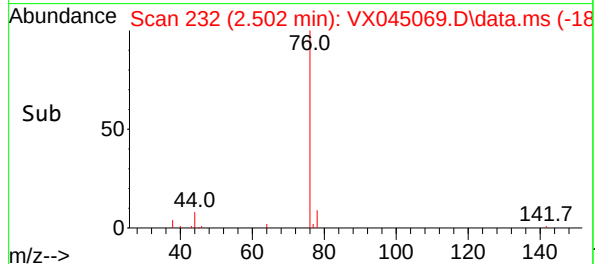
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 76 Resp: 16984
Ion Ratio Lower Upper
76 100
78 8.5 6.6 9.8

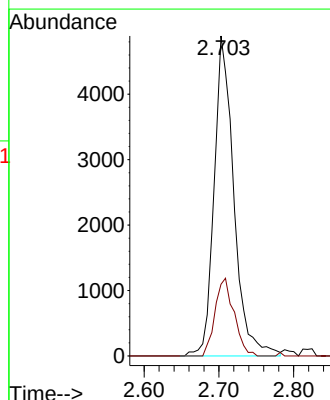
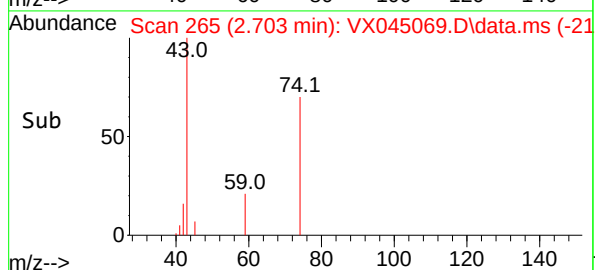
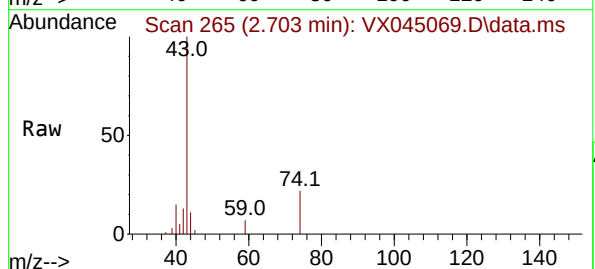
Manual Integrations
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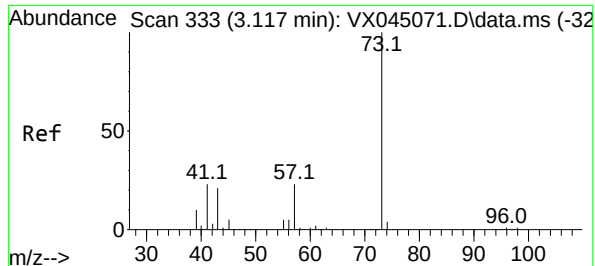
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#18
Methyl Acetate
Concen: 4.559 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 43 Resp: 8964
Ion Ratio Lower Upper
43 100
74 23.3 17.4 26.2





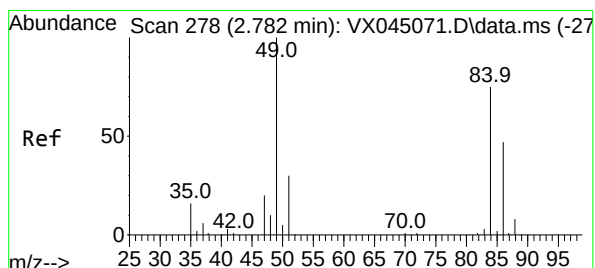
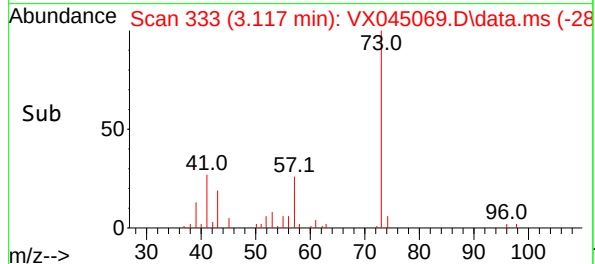
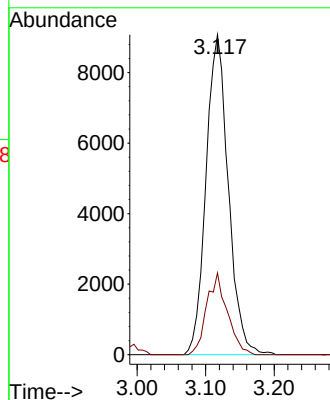
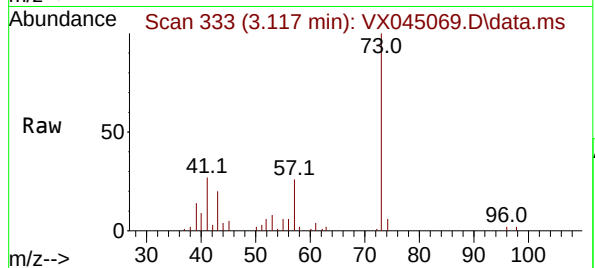
#19
Methyl tert-butyl Ether
Concen: 4.651 ug/l
RT: 3.117 min Scan# 311
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion: 73 Resp: 20540
Ion Ratio Lower Upper
73 100
57 25.6 18.5 27.7

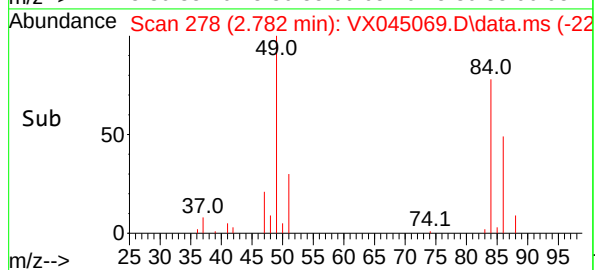
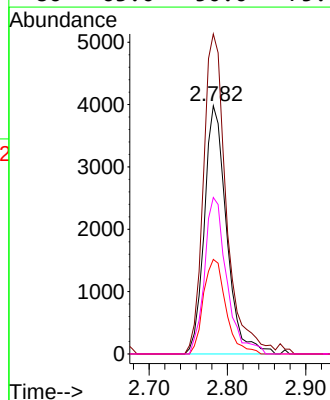
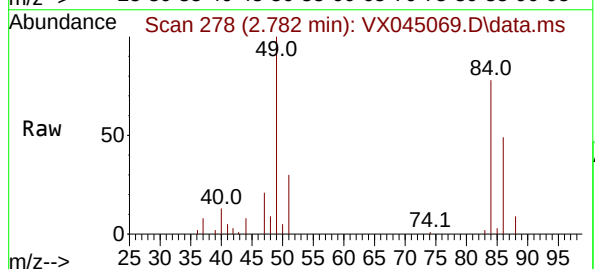
Manual Integrations
APPROVED

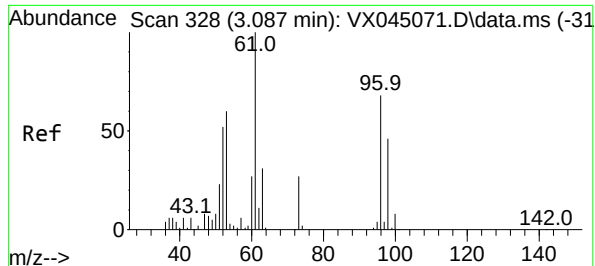
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#20
Methylene Chloride
Concen: 5.068 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 84 Resp: 7835
Ion Ratio Lower Upper
84 100
49 128.9 106.5 159.7
51 38.1 32.1 48.1
86 63.0 50.0 75.0





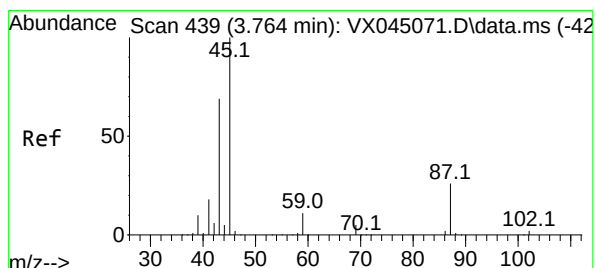
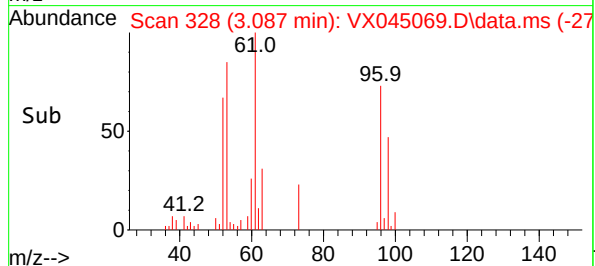
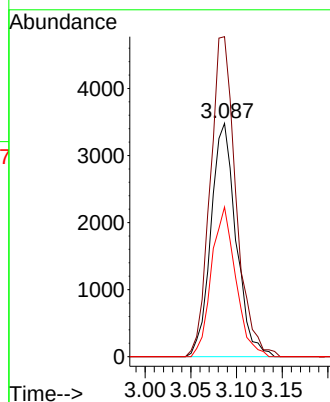
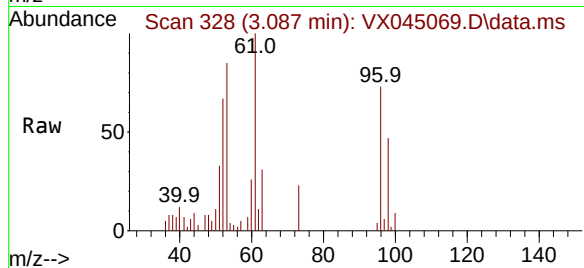
#21
trans-1,2-Dichloroethene
Concen: 4.895 ug/l
RT: 3.087 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 665
Ion Ratio Lower Upper
96 100
61 137.2 117.0 175.4
98 64.1 53.4 80.2

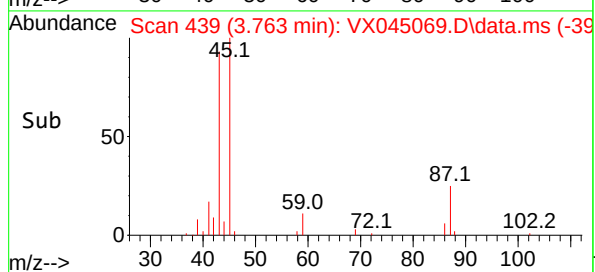
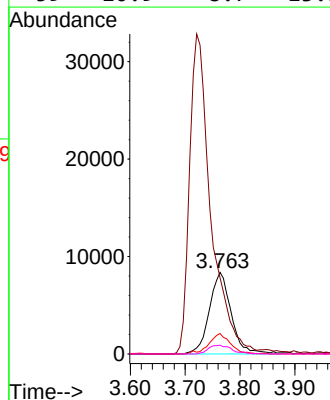
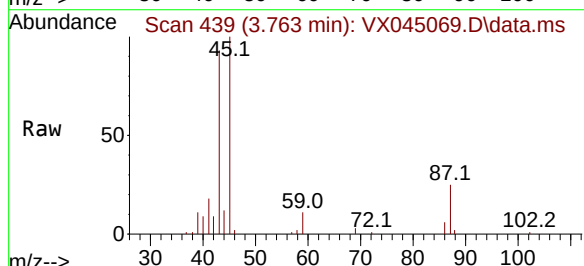
Manual Integrations
APPROVED

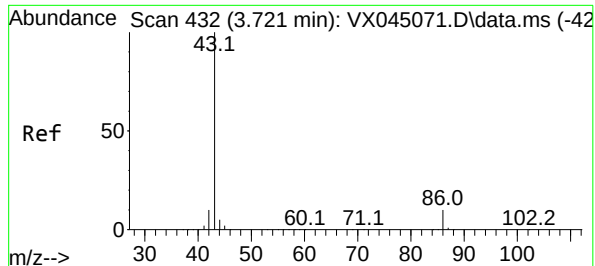
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#22
Diisopropyl ether
Concen: 4.875 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 45 Resp: 23151
Ion Ratio Lower Upper
45 100
43 90.2 54.9 82.3#
87 25.1 21.0 31.4
59 10.9 8.7 13.1





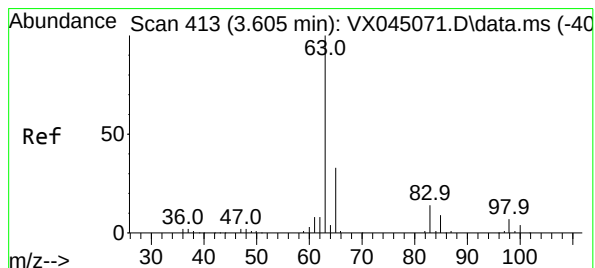
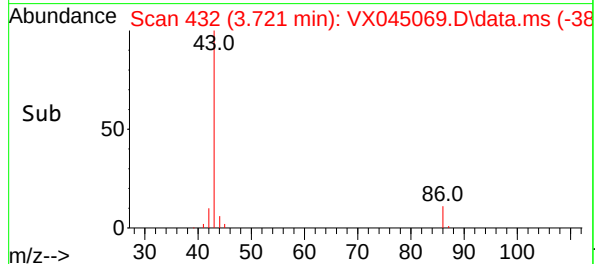
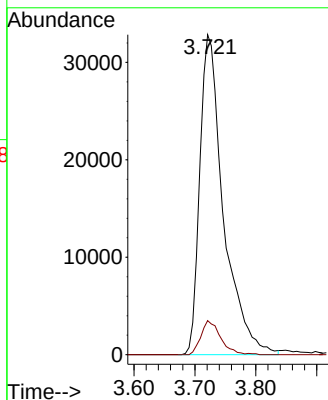
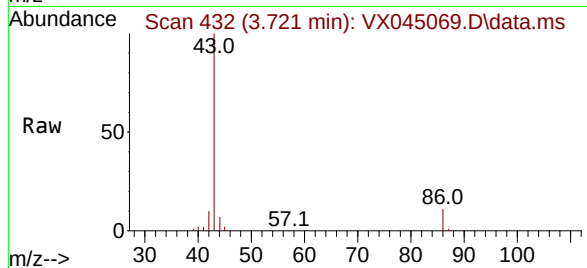
#23
Vinyl Acetate
Concen: 22.788 ug/l
RT: 3.721 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 8885
Ion Ratio Lower Upper
43 100
86 10.7 8.1 12.1

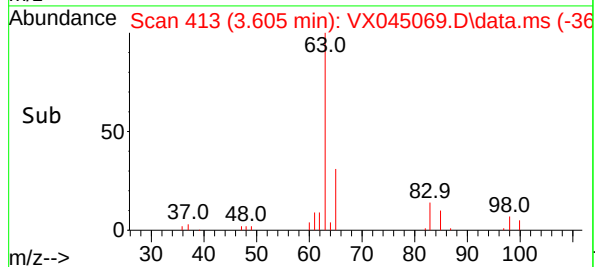
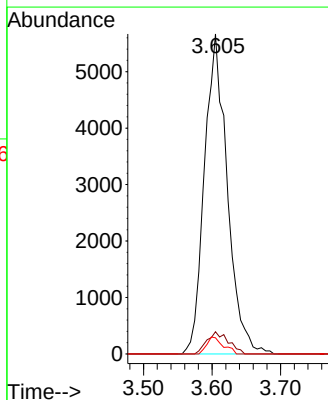
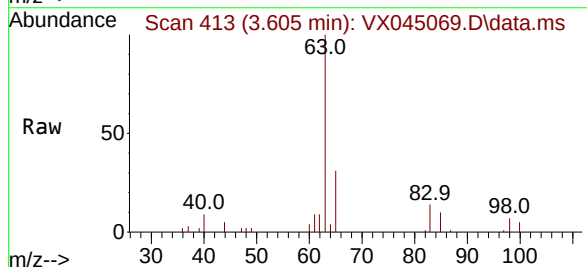
Manual Integrations
APPROVED

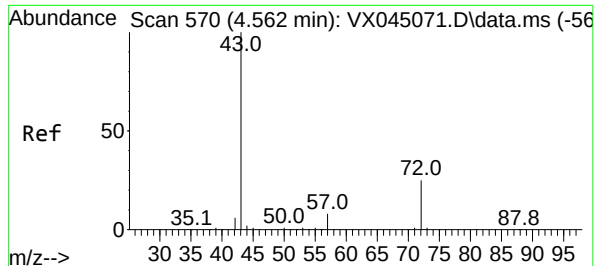
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#24
1,1-Dichloroethane
Concen: 4.949 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 63 Resp: 13132
Ion Ratio Lower Upper
63 100
98 7.0 3.4 10.2
100 5.1 2.1 6.5





#25

2-Butanone

Concen: 27.819 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.012 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 2927

Ion Ratio Lower Upper

43 100

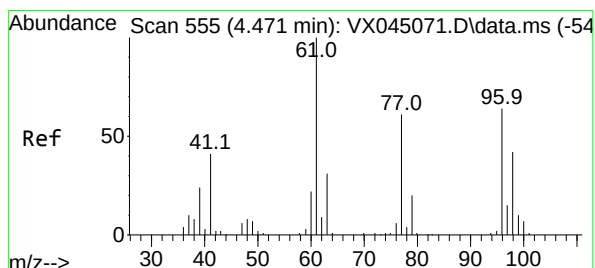
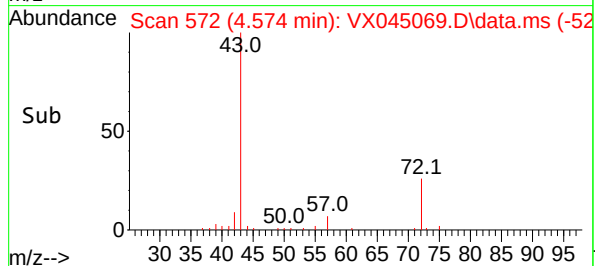
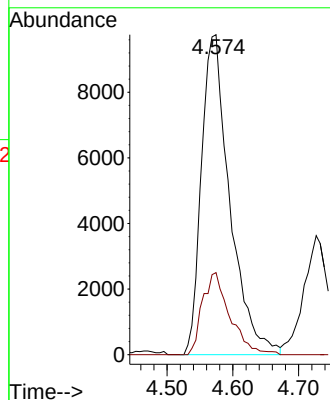
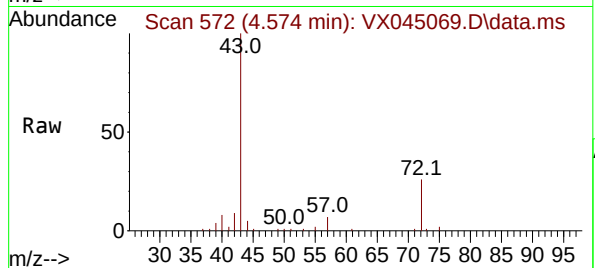
72 25.7 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#26

2,2-Dichloropropane

Concen: 3.059 ug/l

RT: 4.471 min Scan# 555

Delta R.T. -0.000 min

Lab File: VX045069.D

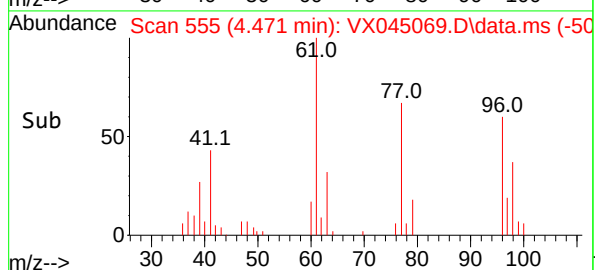
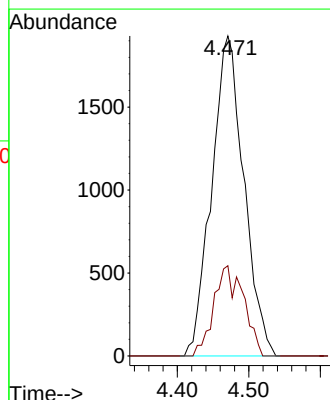
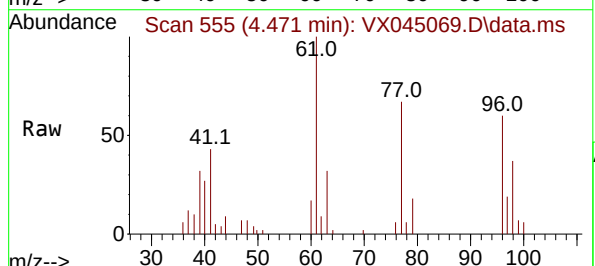
Acq: 28 Feb 2025 02:13

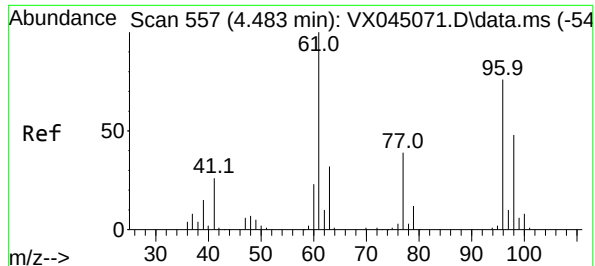
Tgt Ion: 77 Resp: 6034

Ion Ratio Lower Upper

77 100

97 26.0 12.4 37.0





#27

cis-1,2-Dichloroethene

Concen: 4.892 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 96 Resp: 801

Ion Ratio Lower Upper

96 100

61 146.1 0.0 283.2

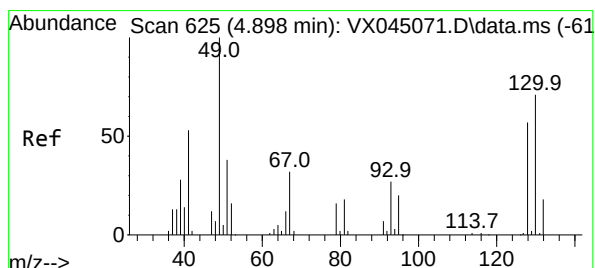
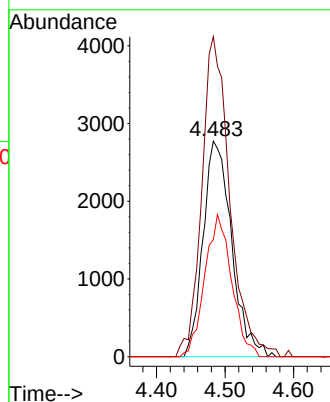
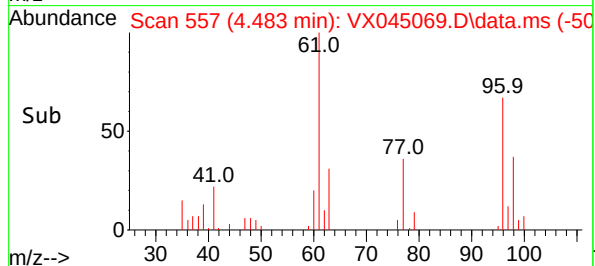
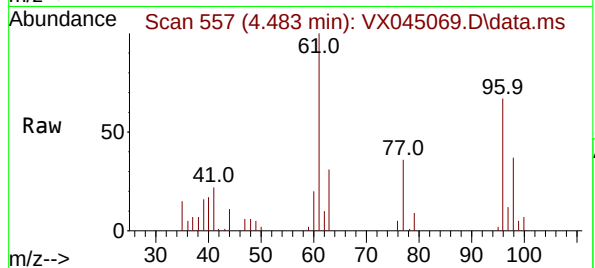
98 62.0 0.0 128.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#28

Bromochloromethane

Concen: 5.311 ug/l

RT: 4.904 min Scan# 626

Delta R.T. 0.006 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

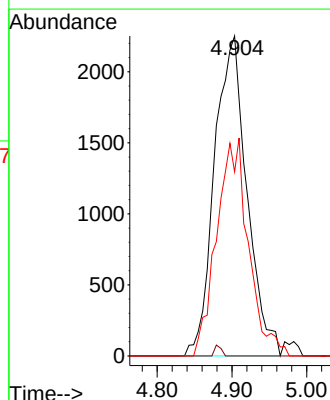
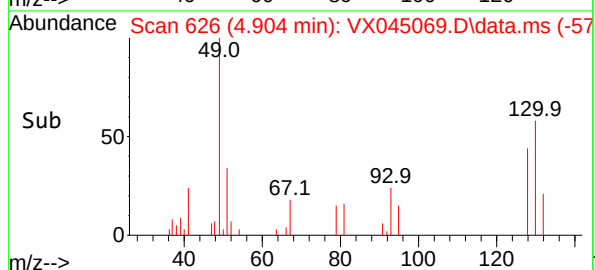
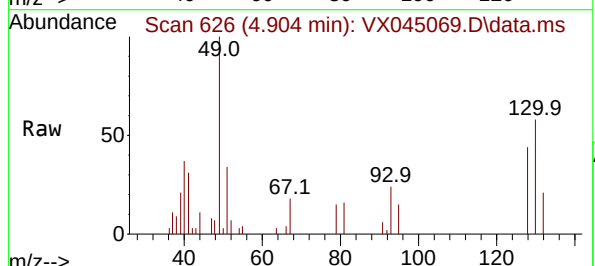
Tgt Ion: 49 Resp: 6797

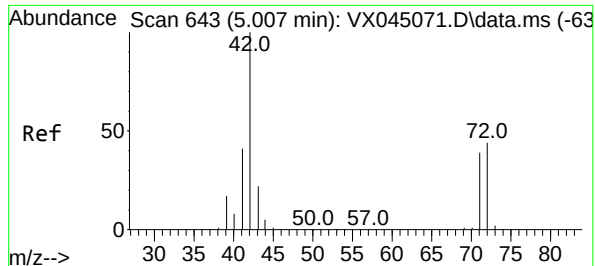
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.4

130 66.5 56.1 84.1





#29

Tetrahydrofuran

Concen: 28.950 ug/l

RT: 5.013 min Scan# 64

Delta R.T. 0.006 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

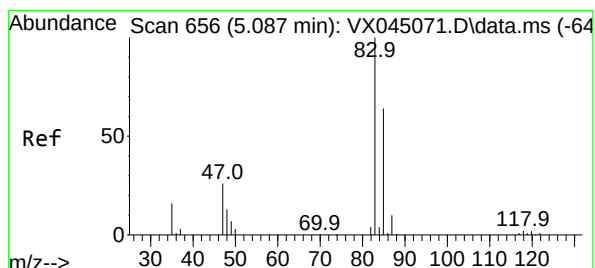
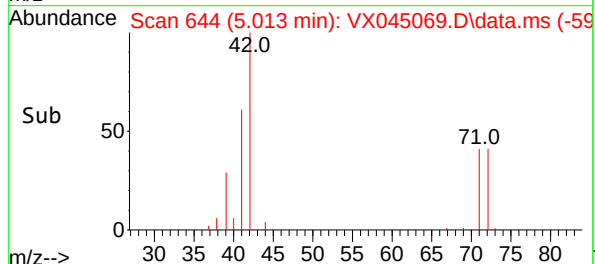
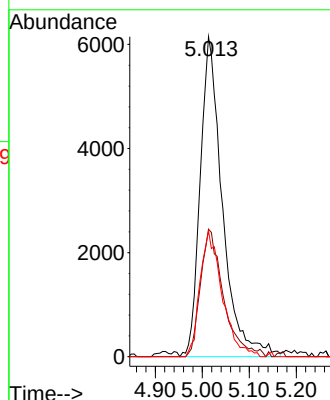
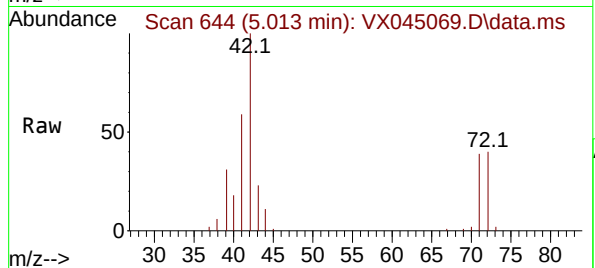
Tgt Ion:	42	Resp:	20180
Ion	Ratio	Lower	Upper
42	100		
72	41.2	34.1	51.1
71	39.3	31.4	47.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#30

Chloroform

Concen: 5.159 ug/l

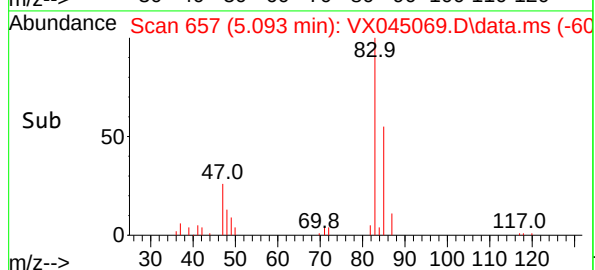
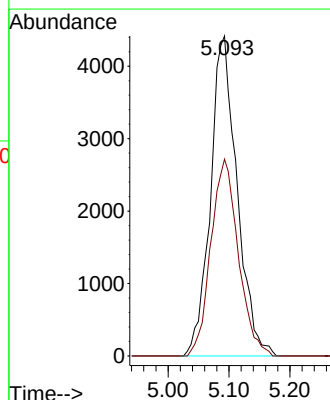
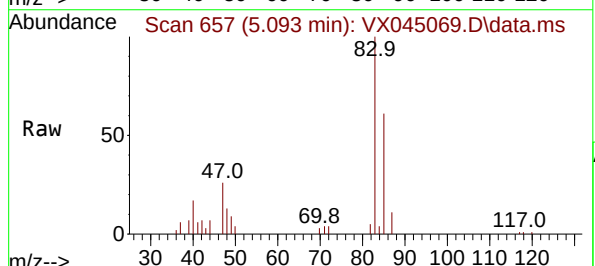
RT: 5.093 min Scan# 657

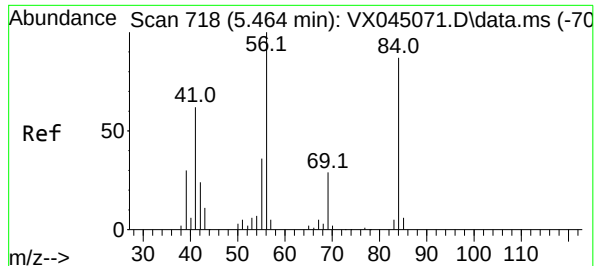
Delta R.T. 0.006 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

Tgt Ion:	83	Resp:	13390
Ion	Ratio	Lower	Upper
83	100		
85	61.5	51.4	77.2





#31

Cyclohexane

Concen: 4.504 ug/l

RT: 5.464 min Scan# 718

Delta R.T. -0.000 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 1096

Ion Ratio Lower Upper

56 100

69 33.0 23.4 35.2

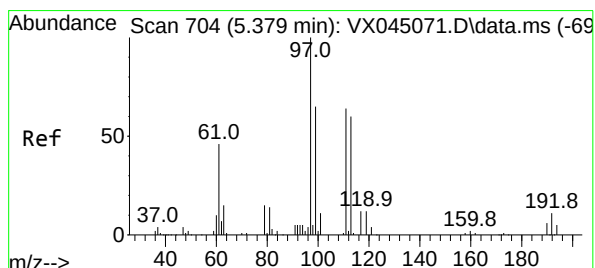
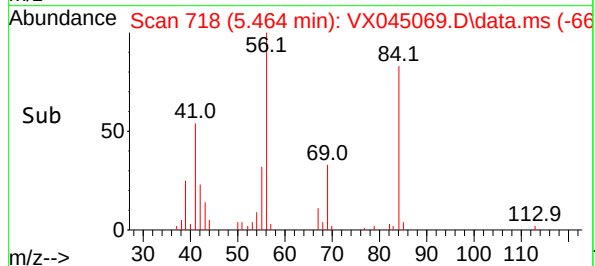
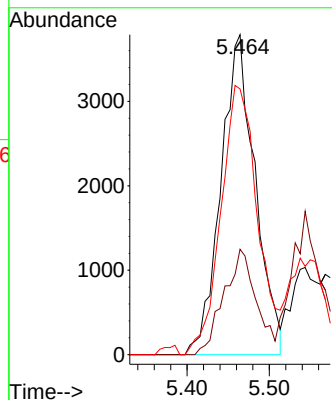
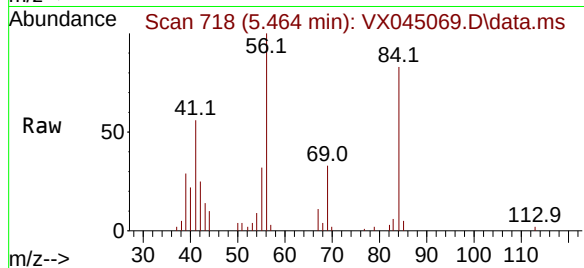
84 83.1 69.4 104.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#32

1,1,1-Trichloroethane

Concen: 4.876 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.006 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

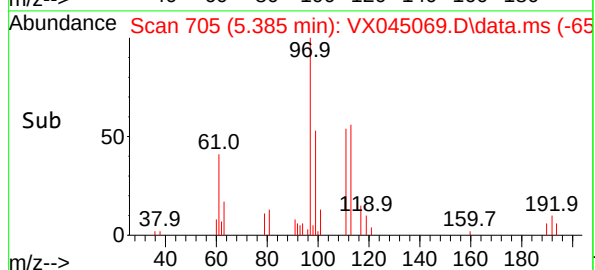
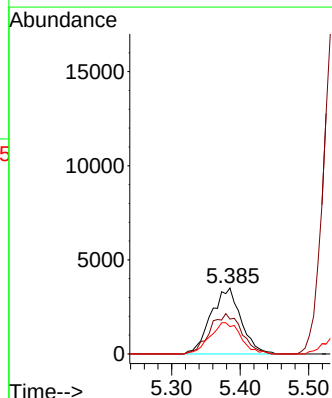
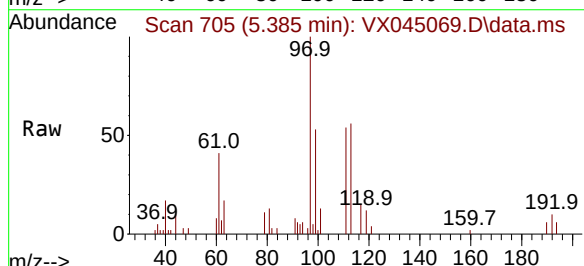
Tgt Ion: 97 Resp: 10654

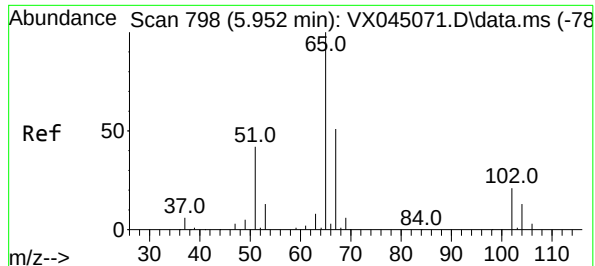
Ion Ratio Lower Upper

97 100

99 64.5 51.6 77.4

61 48.7 38.4 57.6





#33

1,2-Dichloroethane-d4

Concen: 5.659 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.012 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 8978

Ion Ratio Lower Upper

65 100

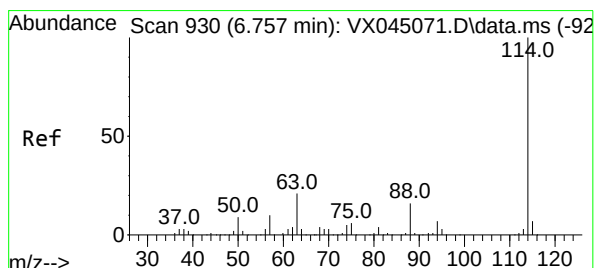
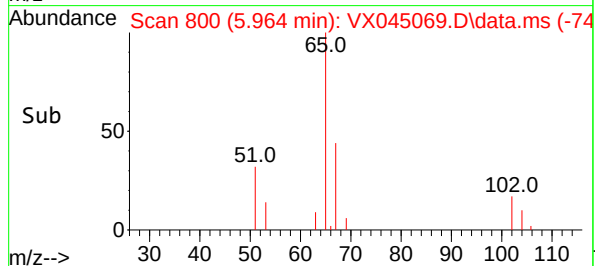
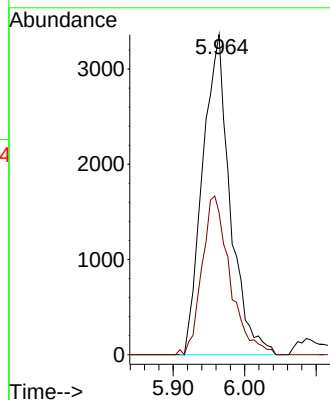
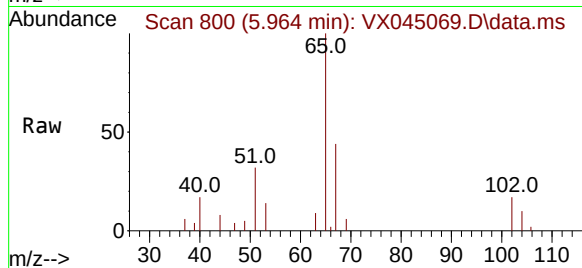
67 50.5 0.0 106.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

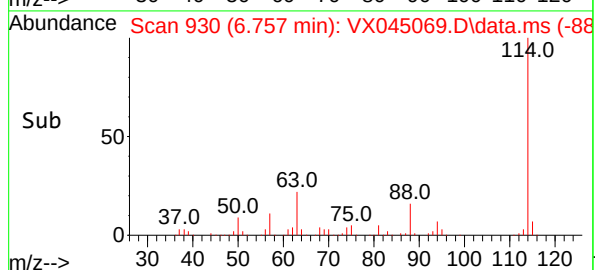
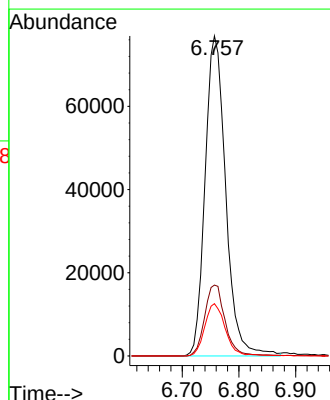
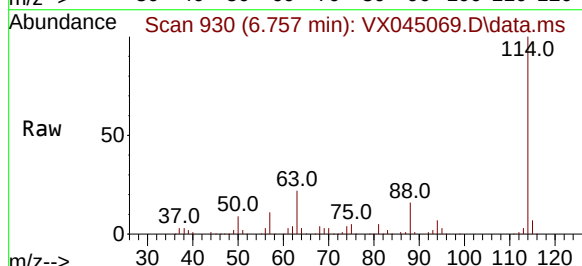
Tgt Ion:114 Resp: 194243

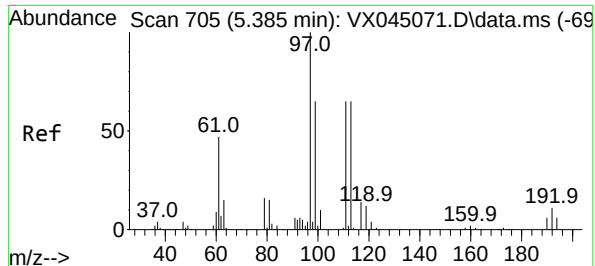
Ion Ratio Lower Upper

114 100

63 22.1 0.0 41.8

88 16.4 0.0 32.8





#35

Dibromofluoromethane

Concen: 5.039 ug/l

RT: 5.391 min Scan# 705

Delta R.T. 0.006 min

Lab File: VX045069.D

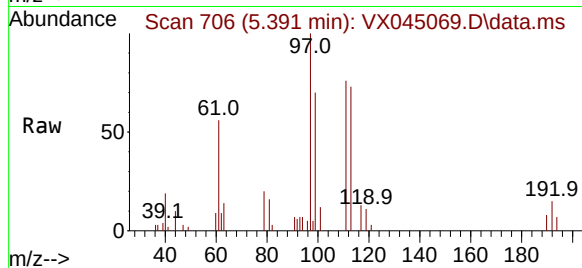
Acq: 28 Feb 2025 02:13

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005



Tgt Ion: 113 Resp: 6398

Ion Ratio Lower Upper

113 100

111 103.9 81.8 122.6

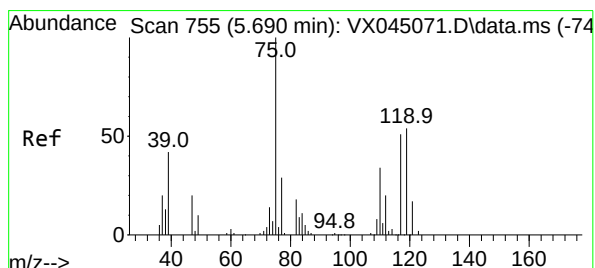
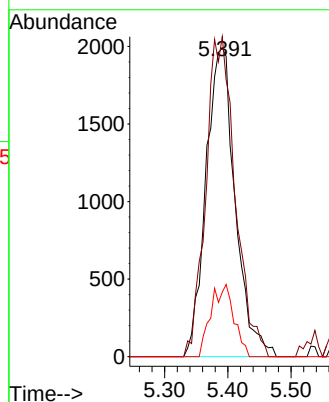
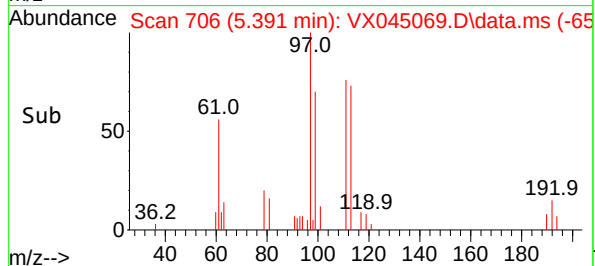
192 18.3 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#36

1,1-Dichloropropene

Concen: 4.917 ug/l

RT: 5.690 min Scan# 755

Delta R.T. -0.000 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

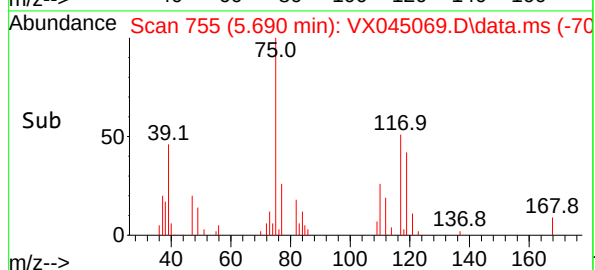
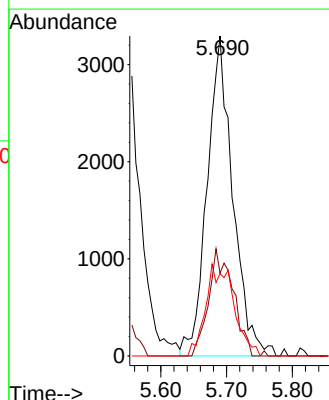
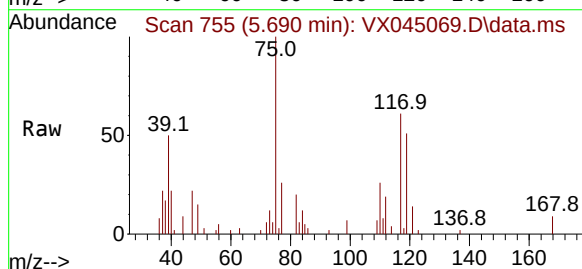
Tgt Ion: 75 Resp: 8977

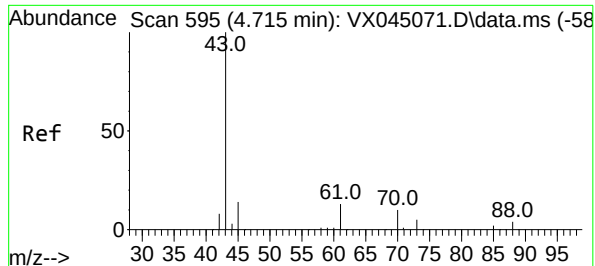
Ion Ratio Lower Upper

75 100

110 31.8 16.9 50.6

77 13.2 24.5 36.7#





#37

Ethyl Acetate

Concen: 5.035 ug/l

RT: 4.727 min Scan# 595

Delta R.T. 0.012 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

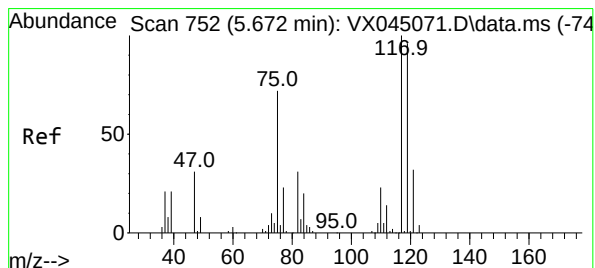
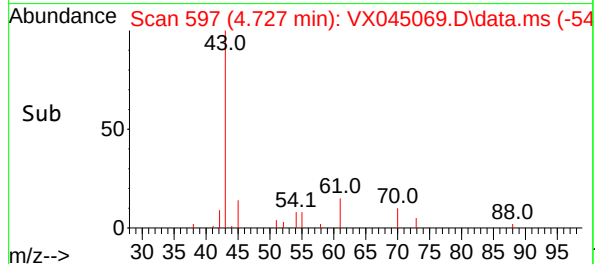
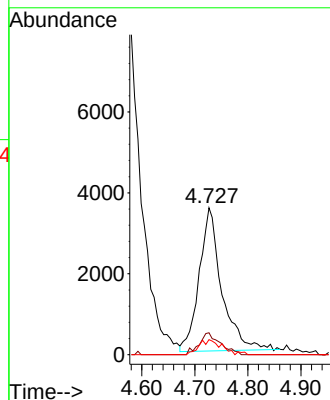
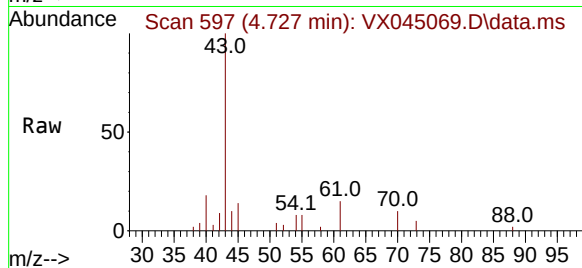
Tgt Ion:	43	Resp:	1045
Ion	Ratio	Lower	Upper
43	100		
61	14.4	10.8	16.2
70	10.2	7.7	11.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#38

Carbon Tetrachloride

Concen: 5.013 ug/l

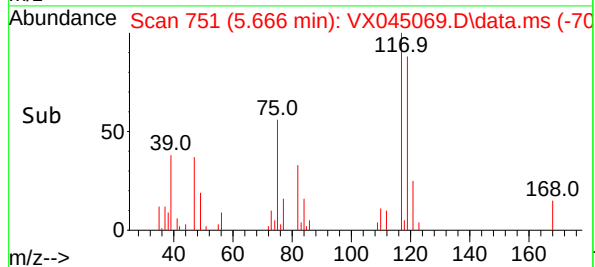
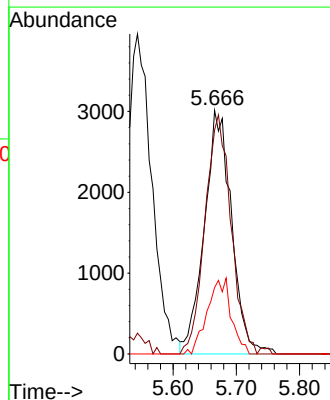
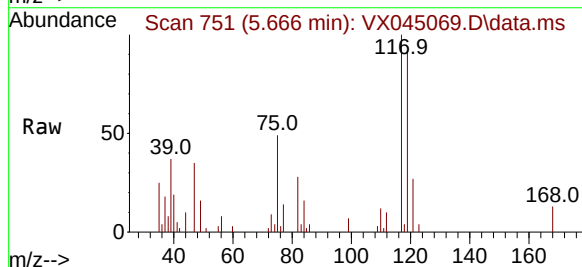
RT: 5.666 min Scan# 751

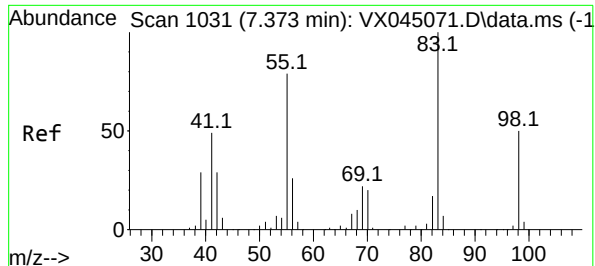
Delta R.T. -0.006 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

Tgt Ion:	117	Resp:	8997
Ion	Ratio	Lower	Upper
117	100		
119	92.0	76.7	115.1
121	27.2	25.5	38.3





#39

Methylcyclohexane

Concen: 4.414 ug/l

RT: 7.379 min Scan# 1029

Delta R.T. 0.006 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 83 Resp: 1029

Ion Ratio Lower Upper

83 100

55 76.4 63.0 94.4

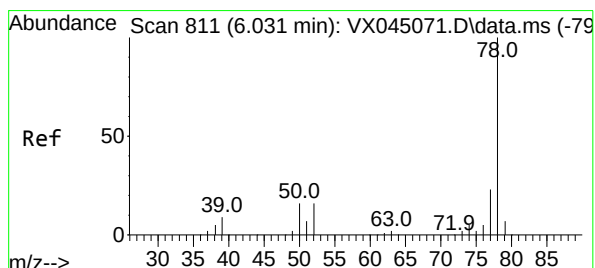
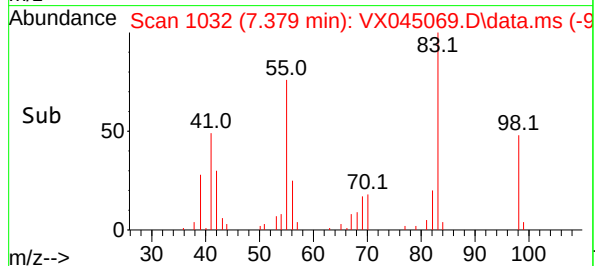
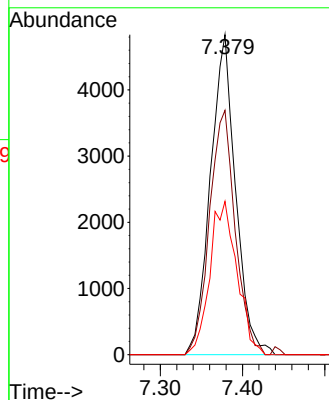
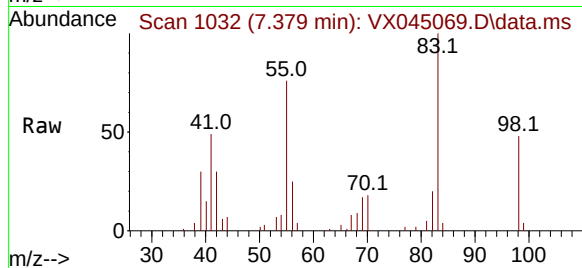
98 47.9 39.7 59.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#40

Benzene

Concen: 4.966 ug/l

RT: 6.037 min Scan# 812

Delta R.T. 0.006 min

Lab File: VX045069.D

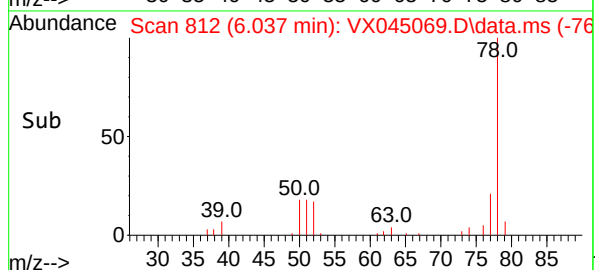
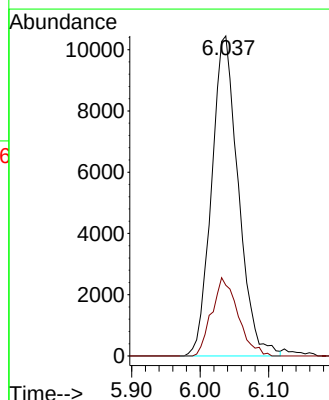
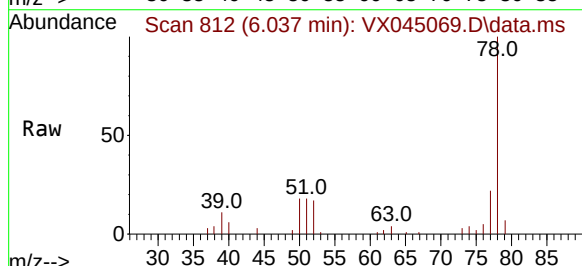
Acq: 28 Feb 2025 02:13

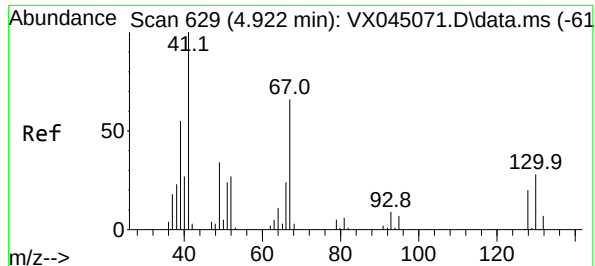
Tgt Ion: 78 Resp: 28339

Ion Ratio Lower Upper

78 100

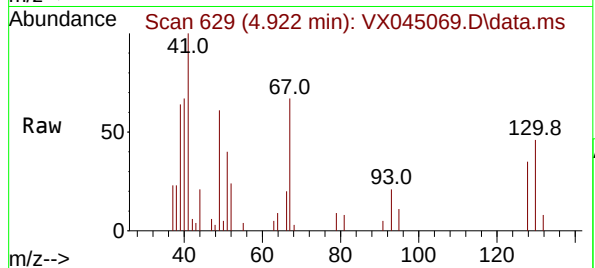
77 22.1 18.8 28.2





#41
Methacrylonitrile
Concen: 5.136 ug/l
RT: 4.922 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

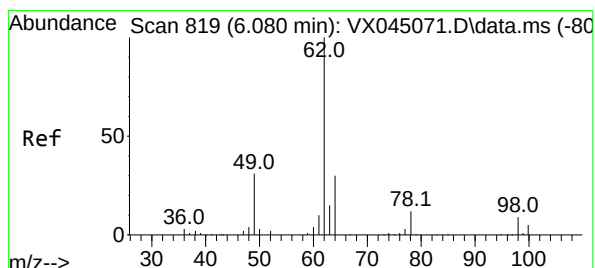
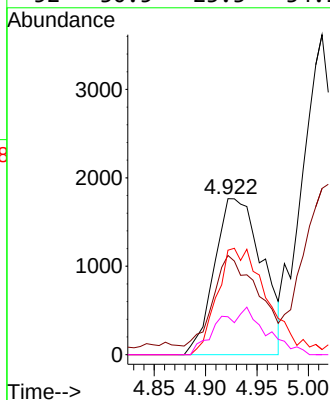
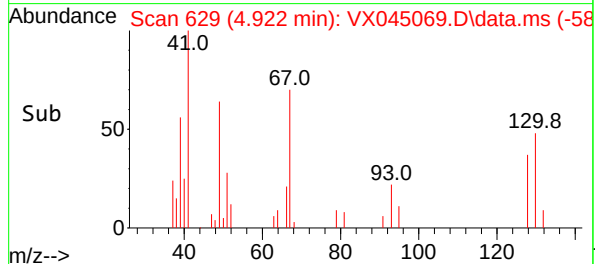
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion: 41 Resp: 5700
Ion Ratio Lower Upper
41 100
39 53.3 44.6 67.0
67 73.4 53.9 80.9
52 30.5 23.3 34.9

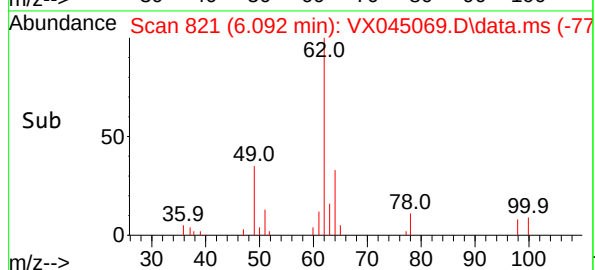
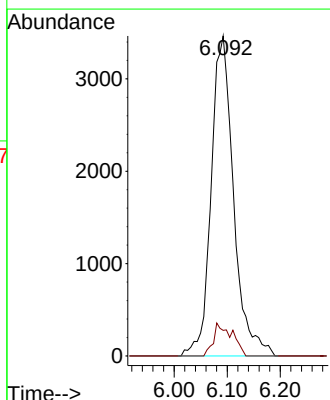
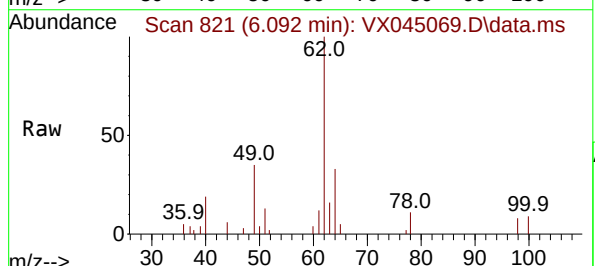
Manual Integrations
APPROVED

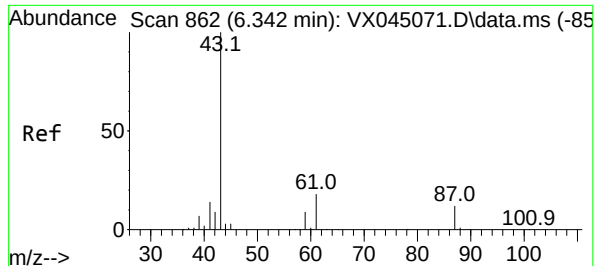
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#42
1,2-Dichloroethane
Concen: 5.510 ug/l
RT: 6.092 min Scan# 821
Delta R.T. 0.012 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 62 Resp: 10189
Ion Ratio Lower Upper
62 100
98 8.5 0.0 18.2





#43

Isopropyl Acetate

Concen: 4.700 ug/l

RT: 6.348 min Scan# 863

Delta R.T. 0.006 min

Lab File: VX045069.D

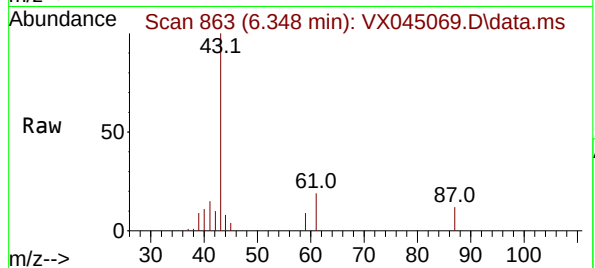
Acq: 28 Feb 2025 02:13

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005



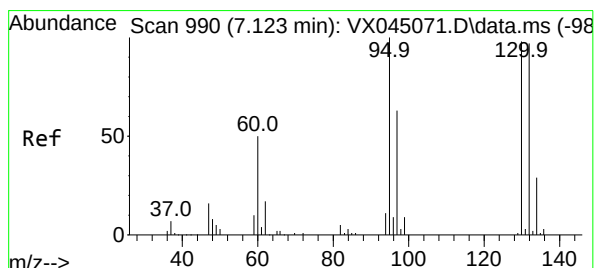
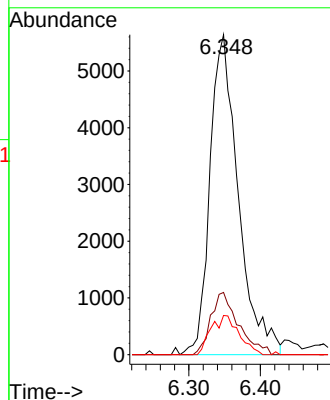
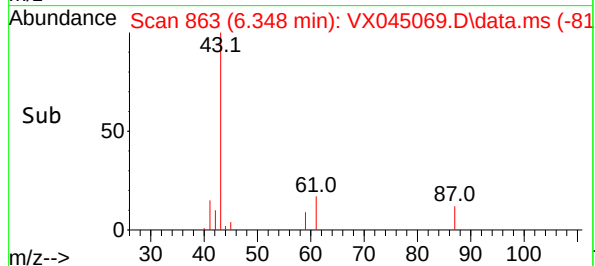
Tgt Ion: 43	Resp: 1554
Ion Ratio	Lower Upper
43	100
61	19.0 14.9 22.3
87	12.1 9.4 14.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#44

Trichloroethene

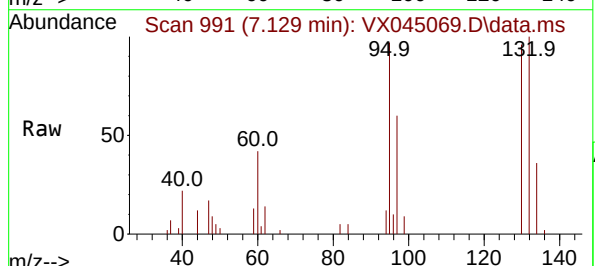
Concen: 5.234 ug/l

RT: 7.129 min Scan# 991

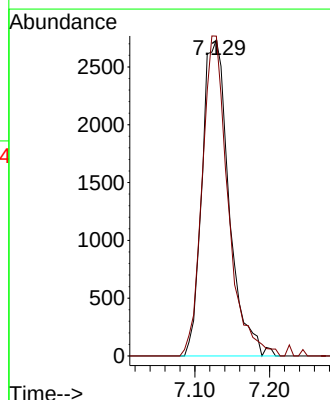
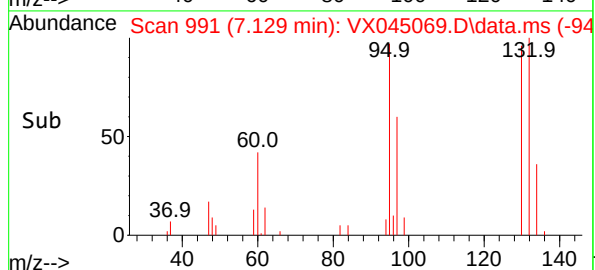
Delta R.T. 0.006 min

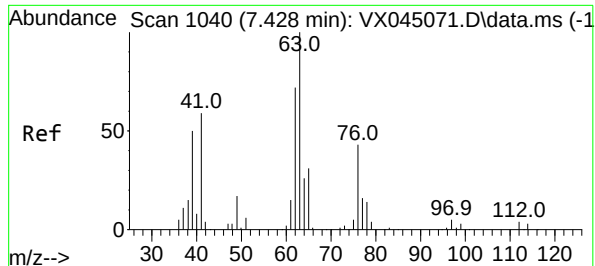
Lab File: VX045069.D

Acq: 28 Feb 2025 02:13



Tgt Ion:130	Resp: 6827
Ion Ratio	Lower Upper
130	100
95	101.2 0.0 205.0





#45

1,2-Dichloropropane

Concen: 5.177 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 734

Ion Ratio Lower Upper

63 100

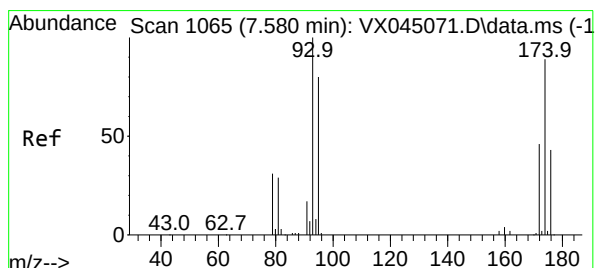
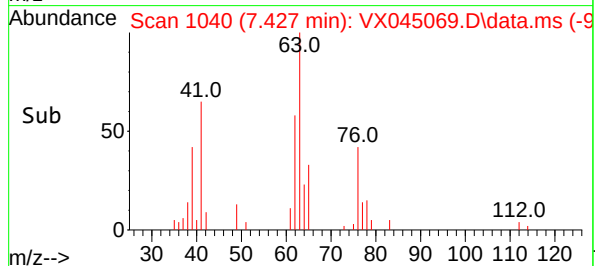
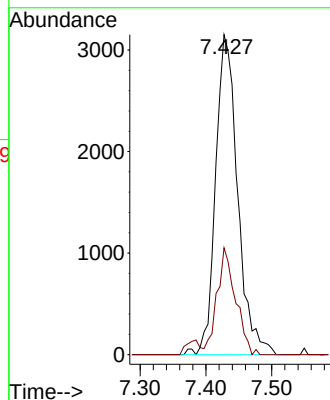
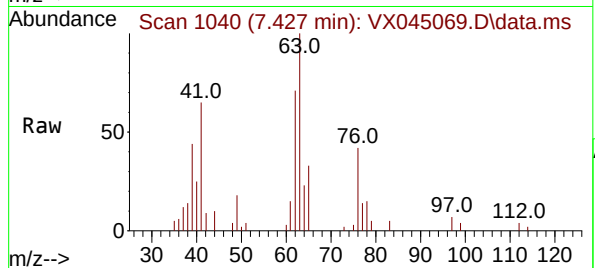
65 33.4 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#46

Dibromomethane

Concen: 5.195 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.006 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

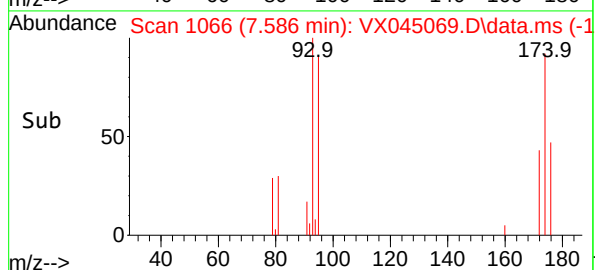
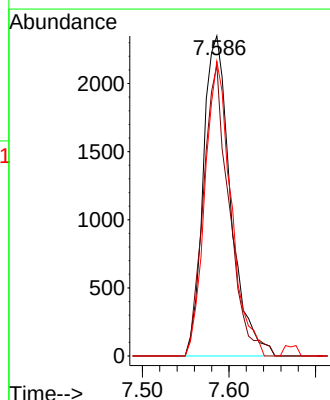
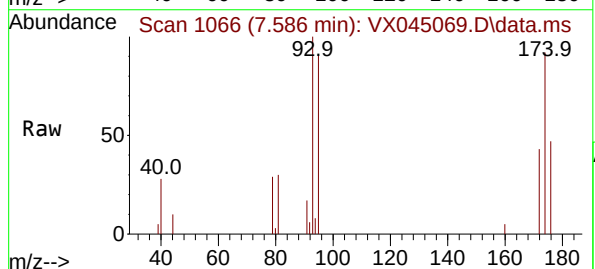
Tgt Ion: 93 Resp: 5146

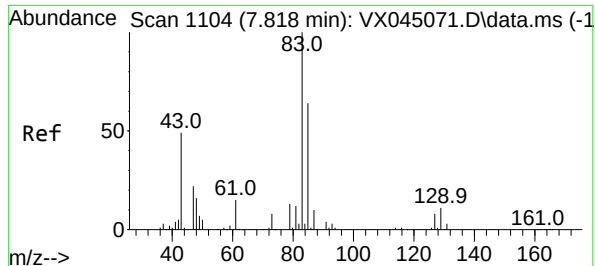
Ion Ratio Lower Upper

93 100

95 86.2 65.8 98.8

174 88.2 72.2 108.2





#47

Bromodichloromethane

Concen: 5.100 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. 0.006 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

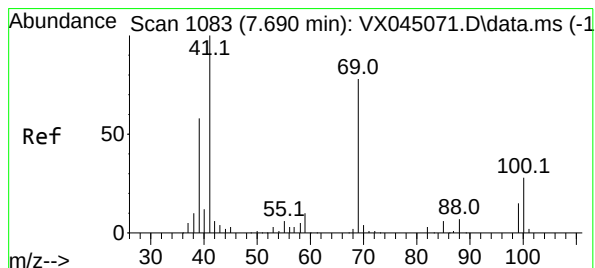
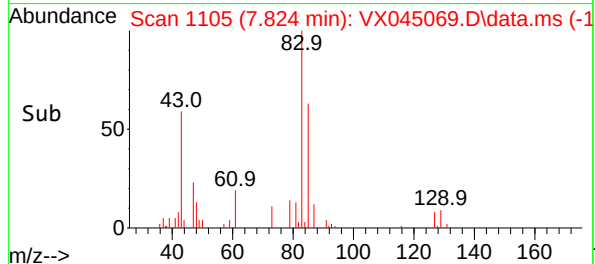
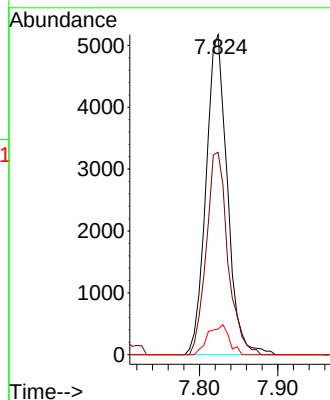
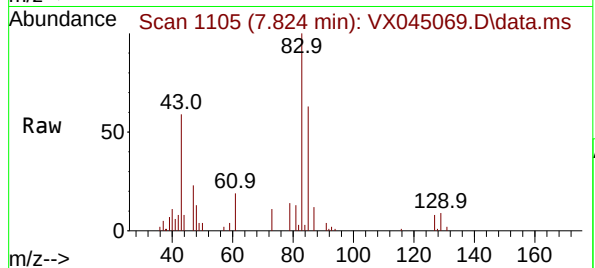
Tgt Ion:	83	Resp:	977
Ion	Ratio	Lower	Upper
83	100		
85	63.3	51.1	76.7
127	8.0	6.4	9.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#48

Methyl methacrylate

Concen: 5.224 ug/l

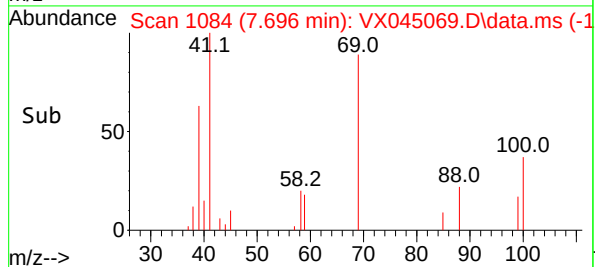
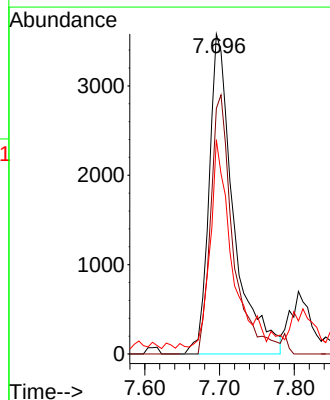
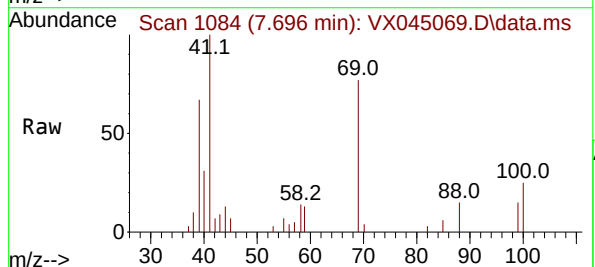
RT: 7.696 min Scan# 1084

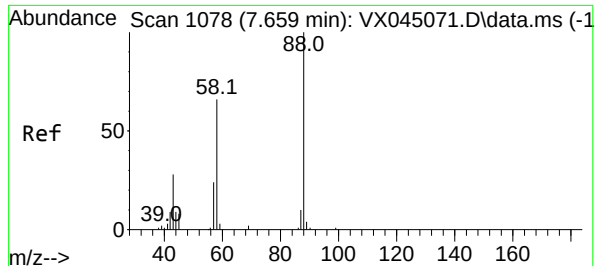
Delta R.T. 0.006 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

Tgt Ion:	41	Resp:	8201
Ion	Ratio	Lower	Upper
41	100		
69	74.0	63.0	94.6
39	55.4	47.5	71.3





#49

1,4-Dioxane

Concen: 105.826 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. 0.006 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 88 Resp: 353

Ion Ratio Lower Upper

88 100

43 35.2 28.7 43.1

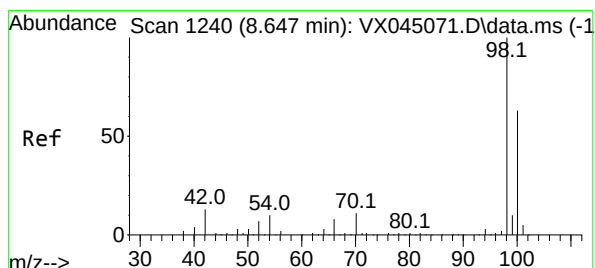
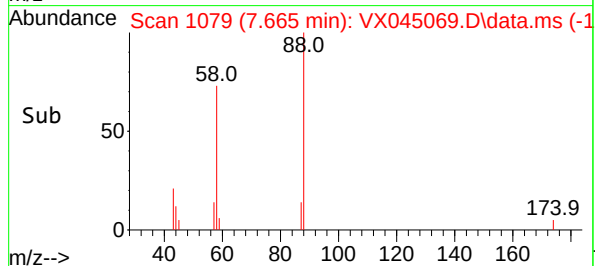
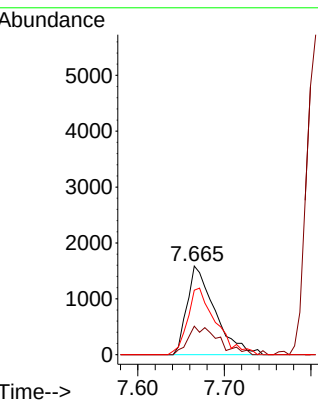
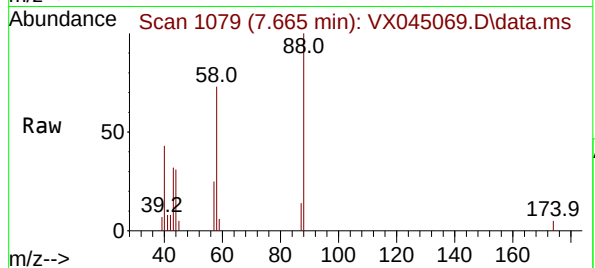
58 75.9 55.8 83.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#50

Toluene-d8

Concen: 5.057 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX045069.D

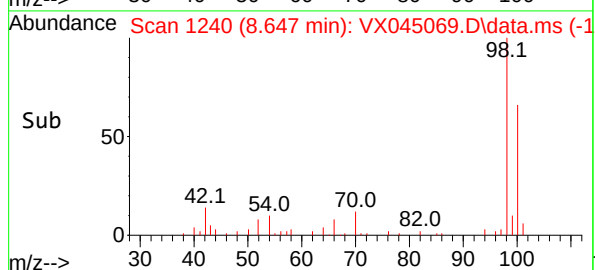
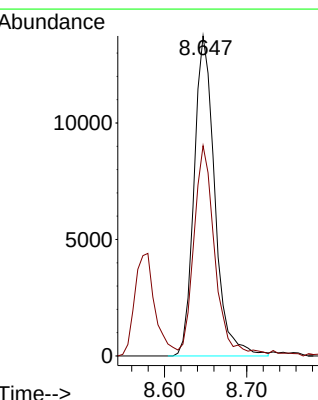
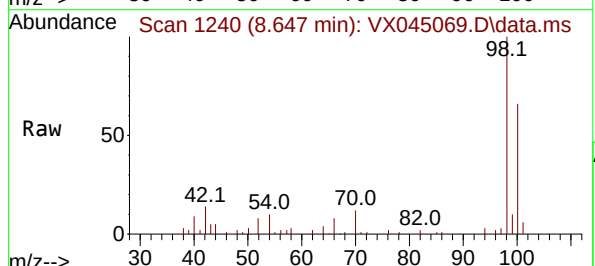
Acq: 28 Feb 2025 02:13

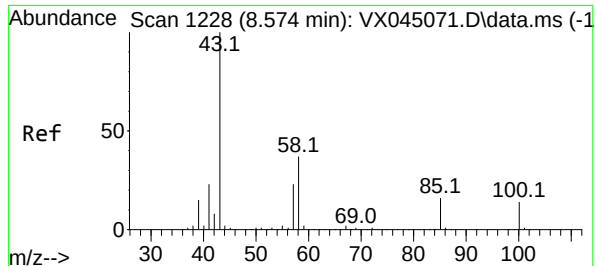
Tgt Ion: 98 Resp: 24037

Ion Ratio Lower Upper

98 100

100 64.6 52.0 78.0





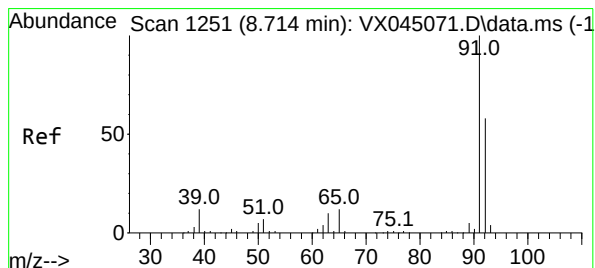
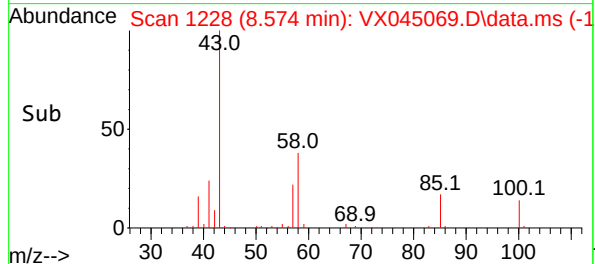
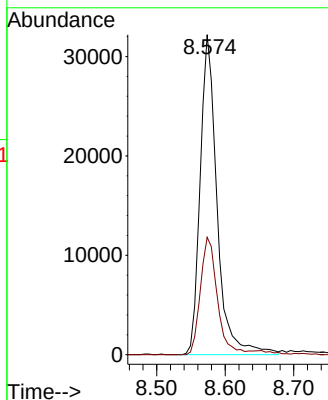
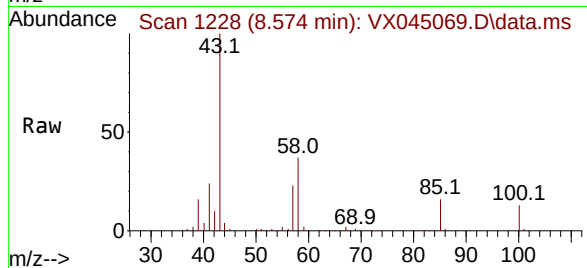
#51
4-Methyl-2-Pentanone
Concen: 27.303 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion: 43 Resp: 55320
Ion Ratio Lower Upper
43 100
58 36.8 29.2 43.8

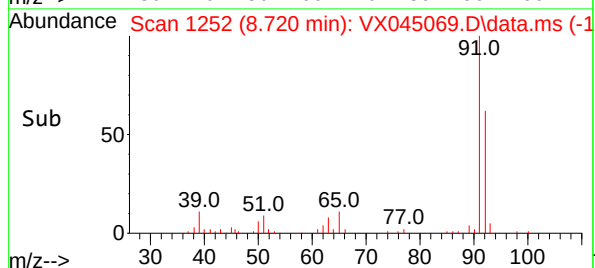
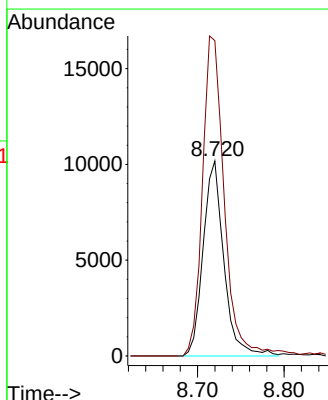
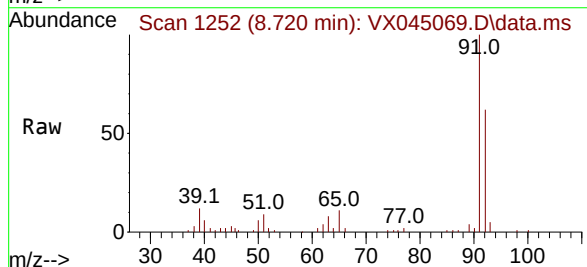
Manual Integrations
APPROVED

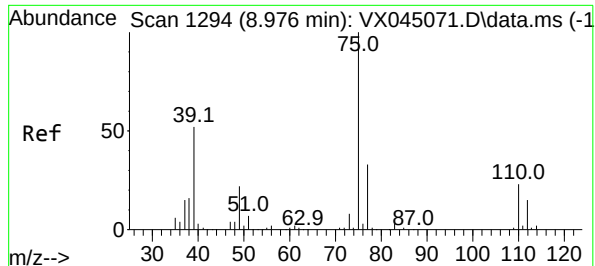
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#52
Toluene
Concen: 4.997 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 92 Resp: 16933
Ion Ratio Lower Upper
92 100
91 172.6 138.9 208.3





#53

t-1,3-Dichloropropene

Concen: 3.985 ug/l

RT: 8.982 min Scan# 1194

Delta R.T. 0.006 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 7548

Ion Ratio Lower Upper

75 100

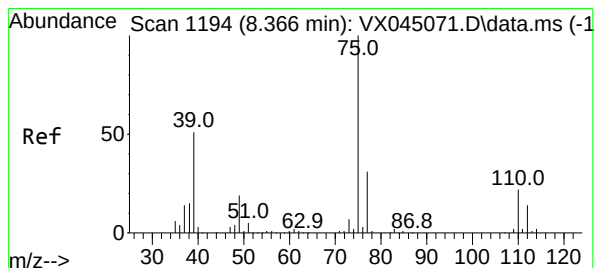
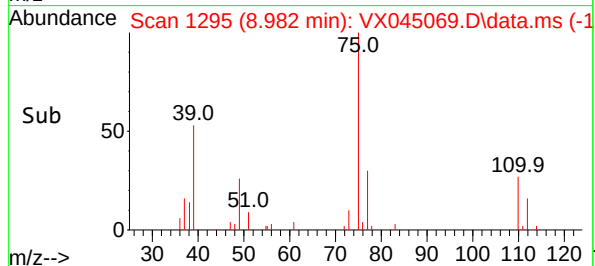
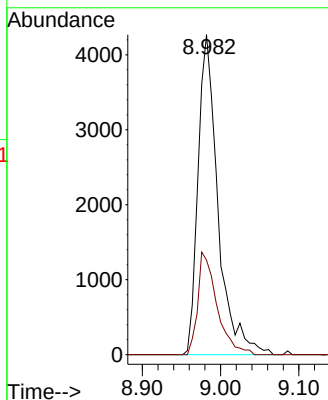
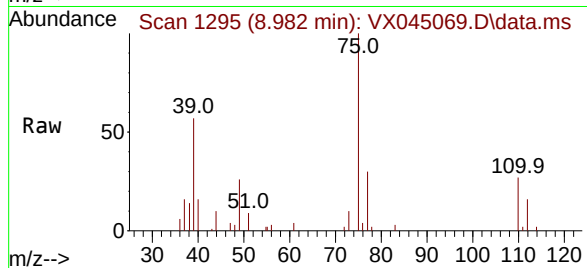
77 29.6 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#54

cis-1,3-Dichloropropene

Concen: 4.244 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

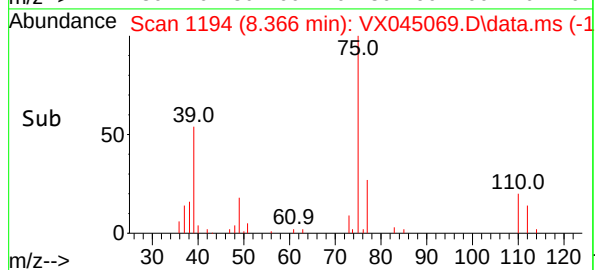
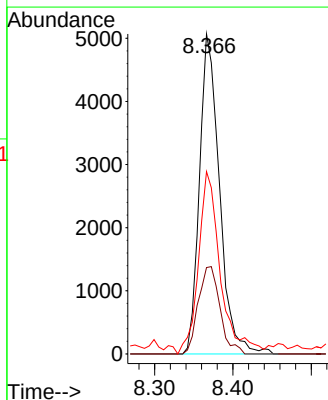
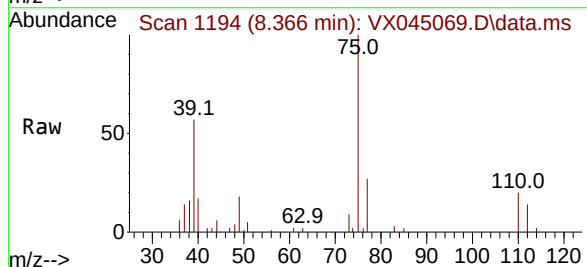
Tgt Ion: 75 Resp: 8988

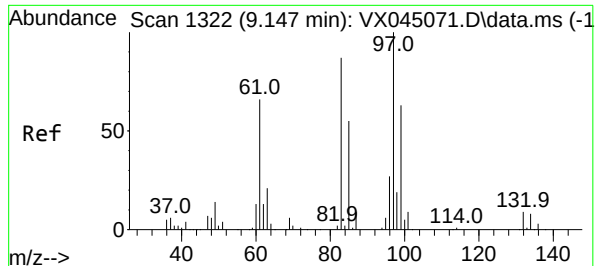
Ion Ratio Lower Upper

75 100

77 27.0 24.7 37.1

39 57.0 40.7 61.1





#55

1,1,2-Trichloroethane

Concen: 5.151 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.006 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 97 Resp: 6759

Ion Ratio Lower Upper

97 100

83 83.7 69.4 104.2

85 53.6 44.1 66.1

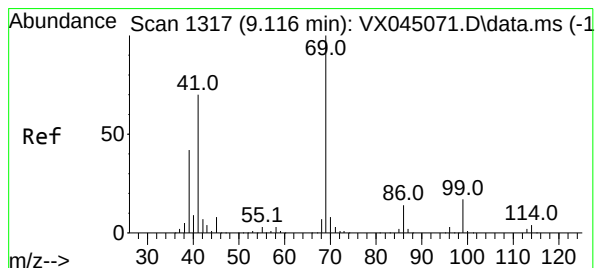
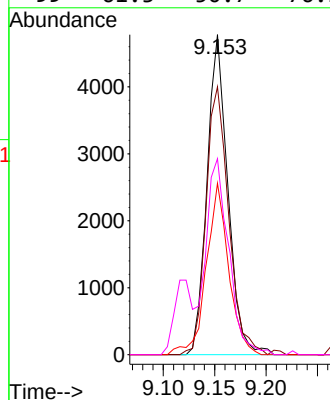
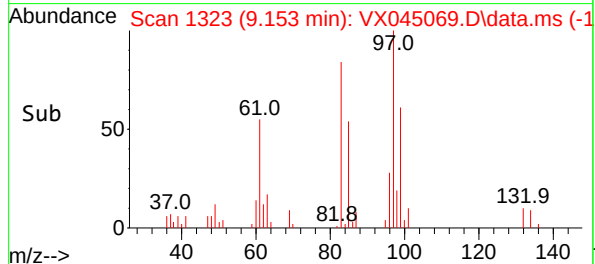
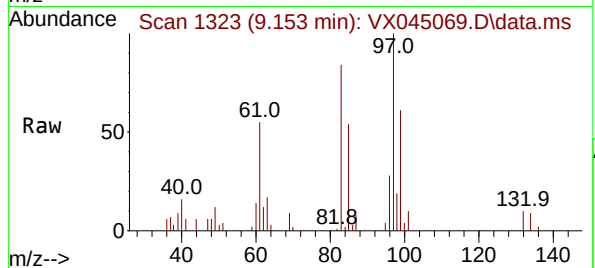
99 61.3 50.7 76.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#56

Ethyl methacrylate

Concen: 4.628 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

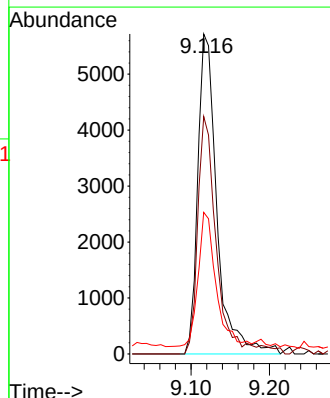
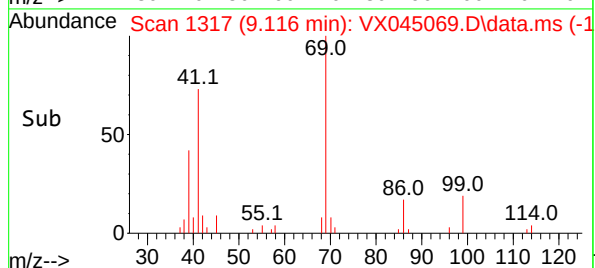
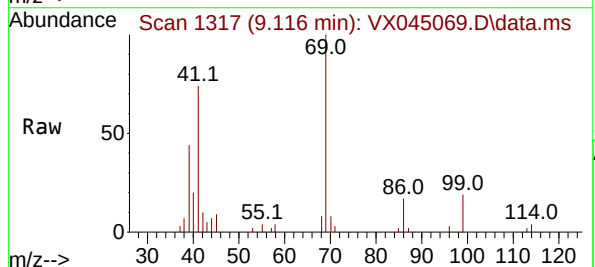
Tgt Ion: 69 Resp: 9712

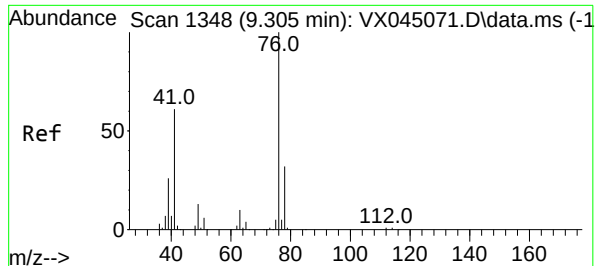
Ion Ratio Lower Upper

69 100

41 71.0 57.0 85.4

39 39.2 34.2 51.4





#57

1,3-Dichloropropane

Concen: 5.289 ug/l

RT: 9.305 min Scan# 11348

Delta R.T. -0.000 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 12100

Ion Ratio Lower Upper

76 100

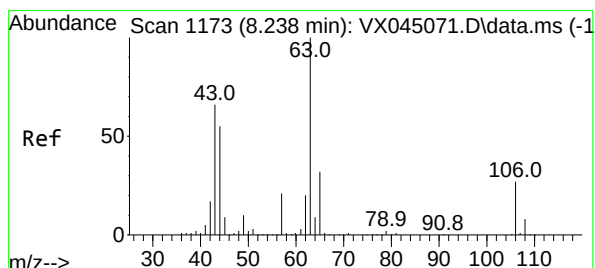
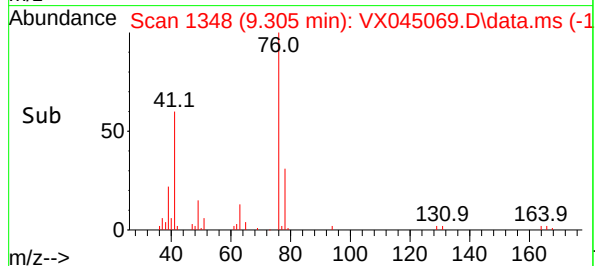
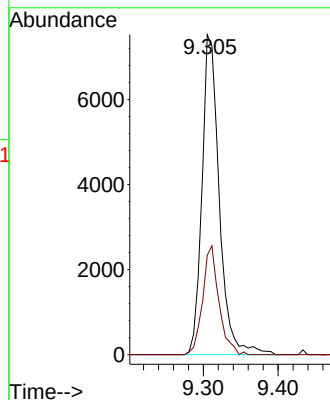
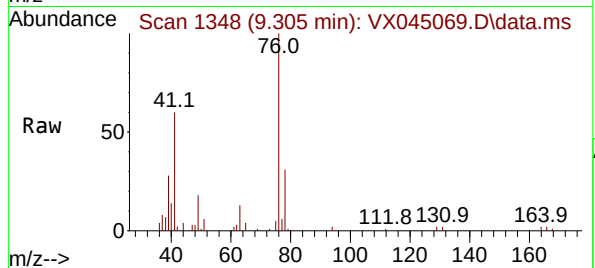
78 31.9 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#58

2-Chloroethyl Vinyl ether

Concen: 22.527 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX045069.D

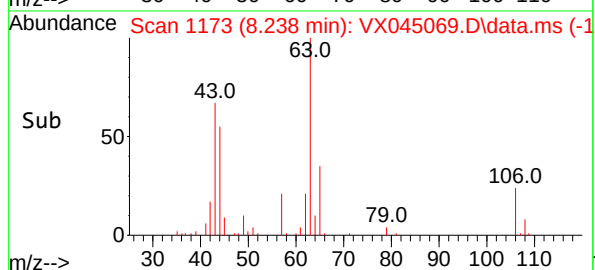
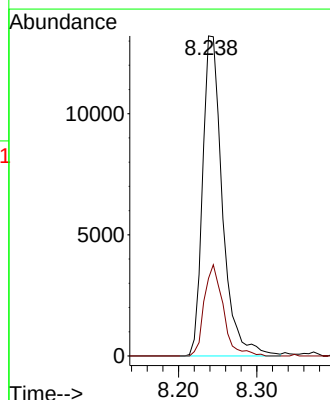
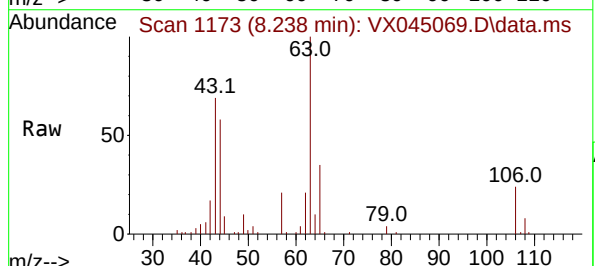
Acq: 28 Feb 2025 02:13

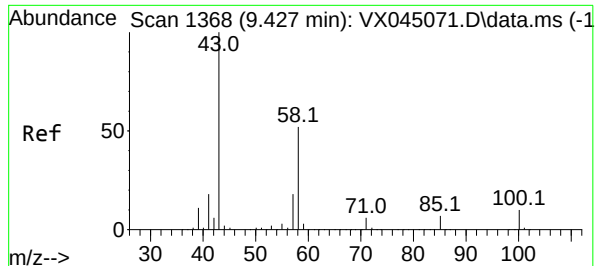
Tgt Ion: 63 Resp: 23212

Ion Ratio Lower Upper

63 100

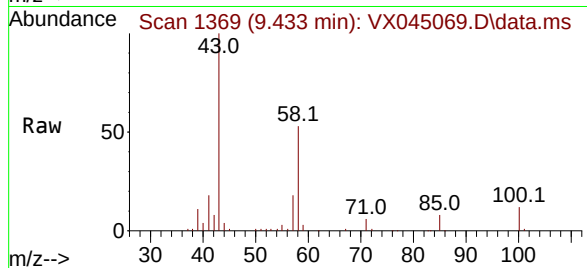
106 27.4 21.5 32.3





#59
2-Hexanone
Concen: 27.363 ug/l
RT: 9.433 min Scan# 1369
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

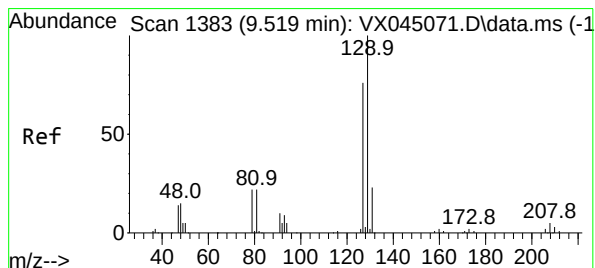
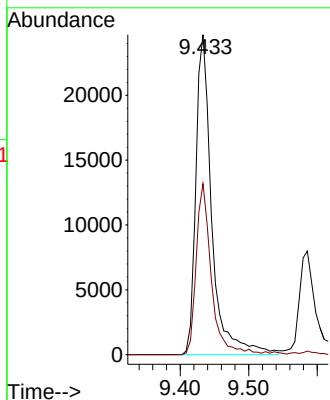
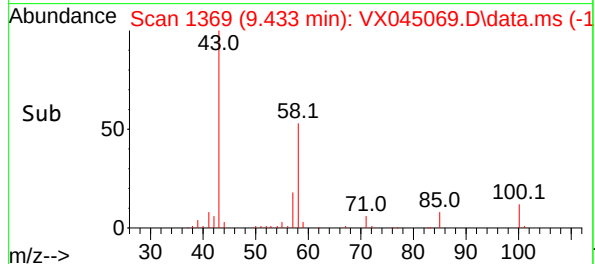
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion: 43 Resp: 3994
Ion Ratio Lower Upper
43 100
58 50.7 25.9 77.6

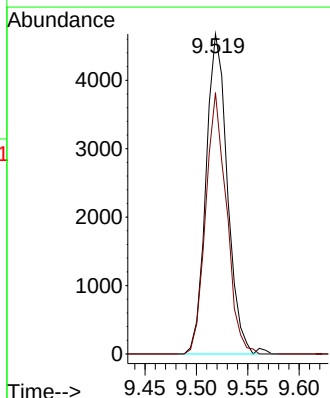
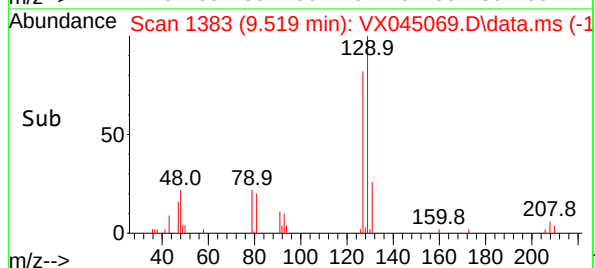
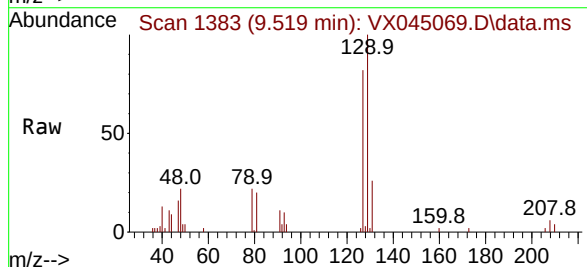
Manual Integrations
APPROVED

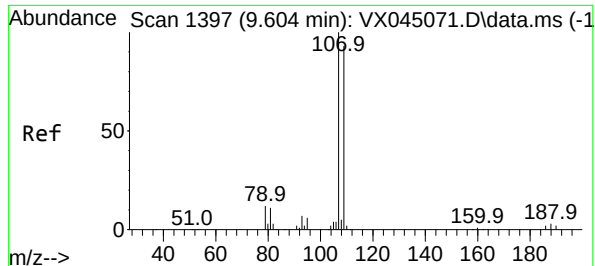
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#60
Dibromochloromethane
Concen: 4.846 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:129 Resp: 6785
Ion Ratio Lower Upper
129 100
127 79.0 38.5 115.5





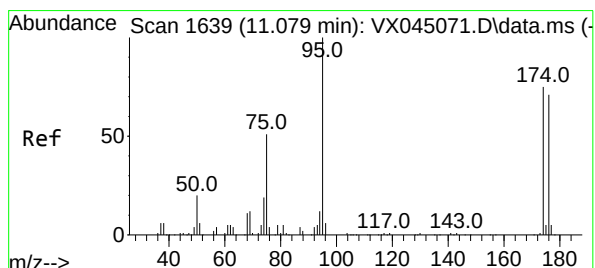
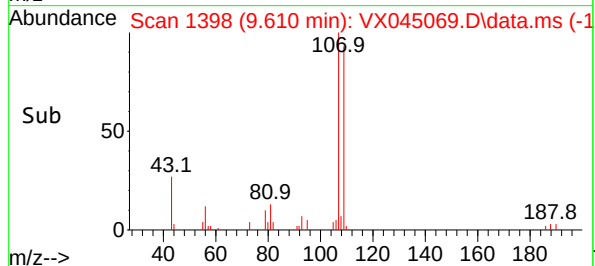
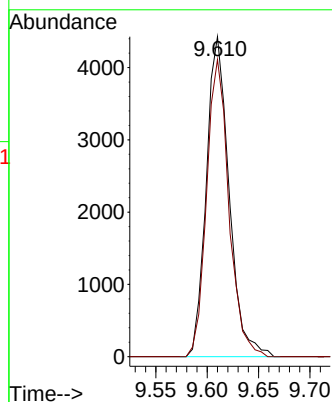
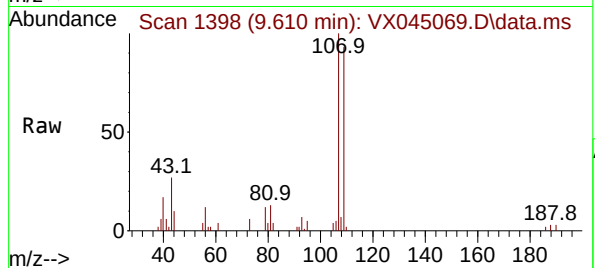
#61
1,2-Dibromoethane
Concen: 5.161 ug/l
RT: 9.610 min Scan# 1397
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion:107 Resp: 683
Ion Ratio Lower Upper
107 100
109 90.7 76.1 114.1

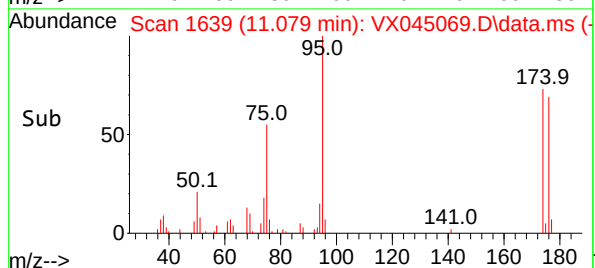
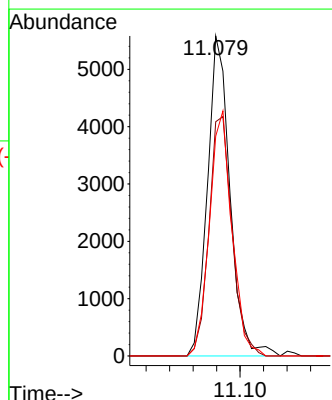
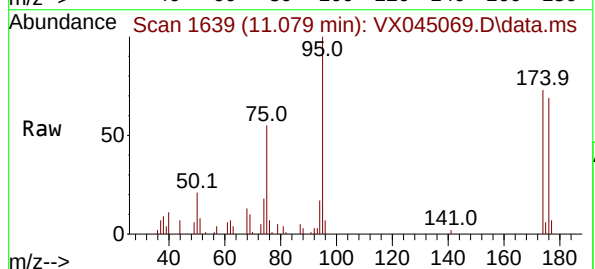
Manual Integrations
APPROVED

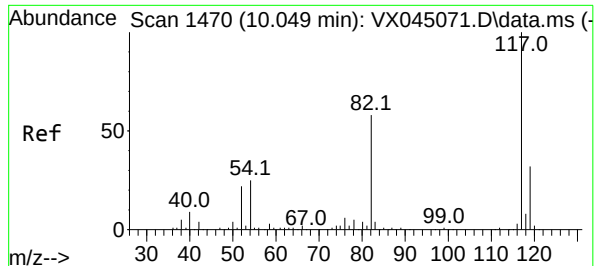
Reviewed By :John Carbone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#62
4-Bromofluorobenzene
Concen: 4.685 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

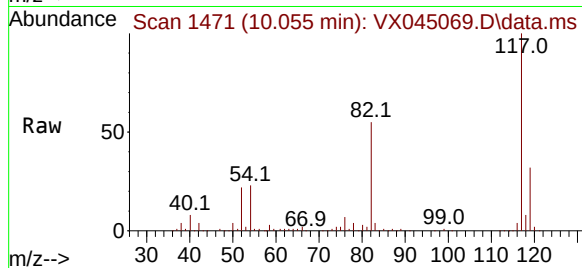
Tgt Ion: 95 Resp: 7436
Ion Ratio Lower Upper
95 100
174 76.5 0.0 148.2
176 76.3 0.0 141.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

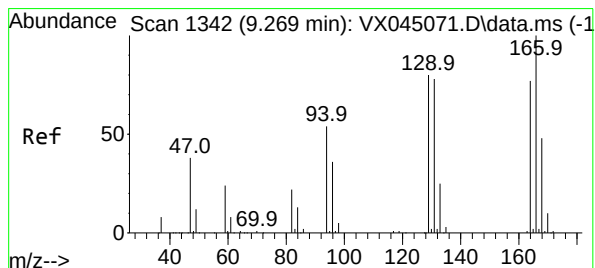
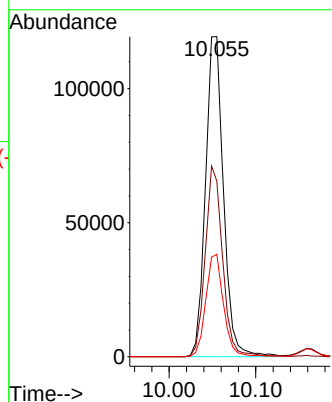
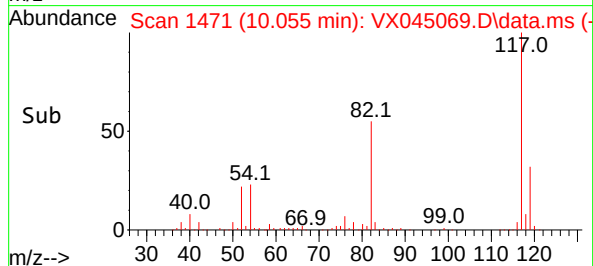
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:117 Resp: 17236
Ion Ratio Lower Upper
117 100
82 54.8 46.3 69.5
119 32.0 25.7 38.5

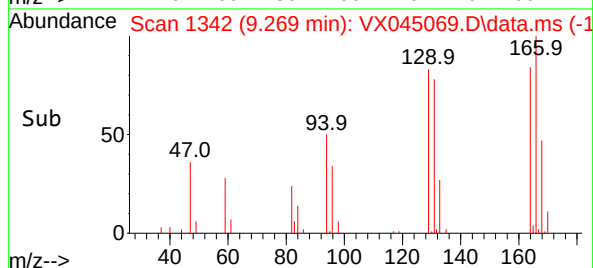
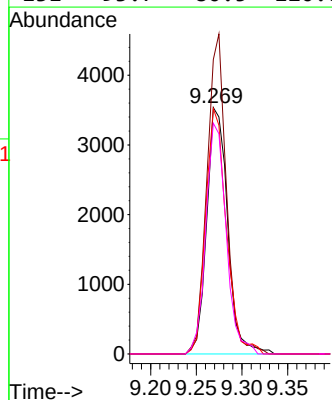
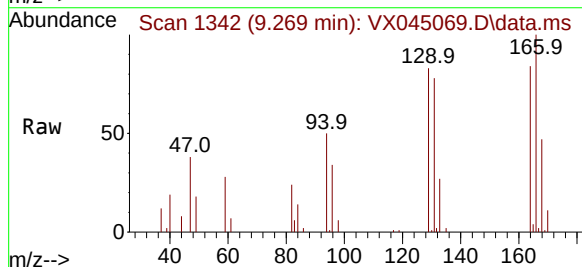
Manual Integrations
APPROVED

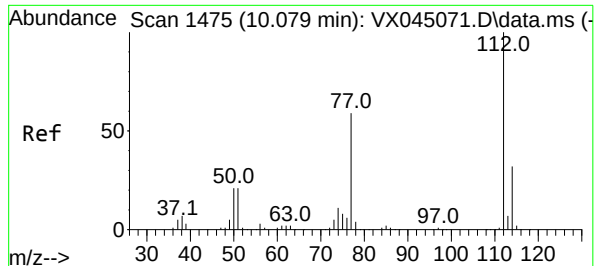
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#64
Tetrachloroethene
Concen: 5.128 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

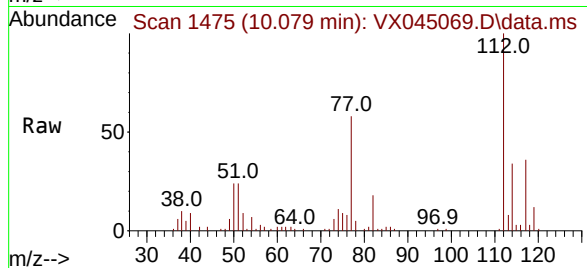
Tgt Ion:164 Resp: 5615
Ion Ratio Lower Upper
164 100
166 119.5 103.6 155.4
129 99.7 82.7 124.1
131 93.7 80.5 120.7





#65
Chlorobenzene
Concen: 4.908 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

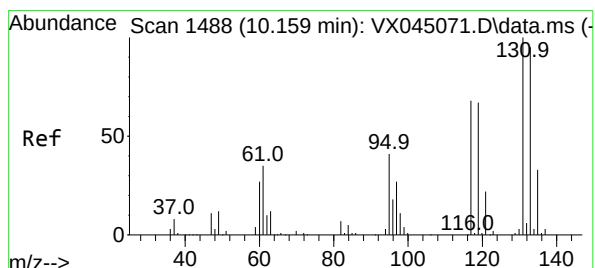
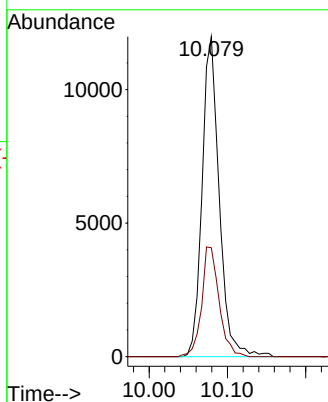
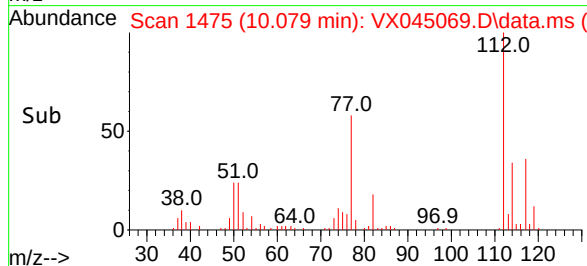
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion:112 Resp: 1816
Ion Ratio Lower Upper
112 100
114 34.0 26.0 39.0

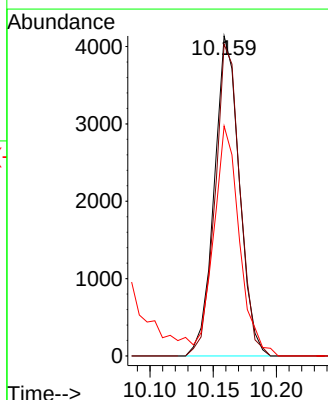
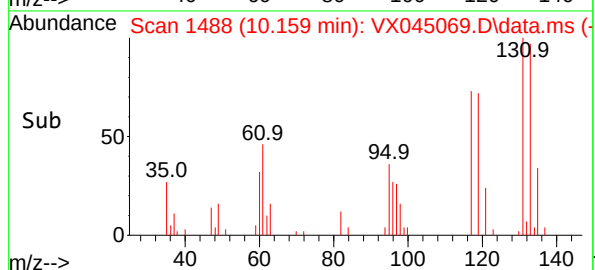
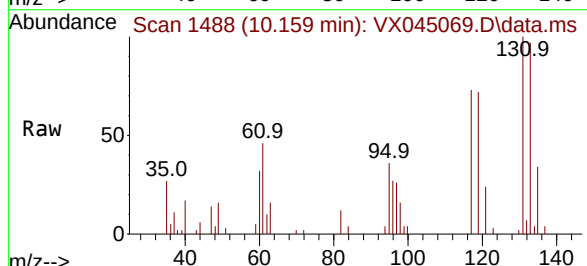
Manual Integrations
APPROVED

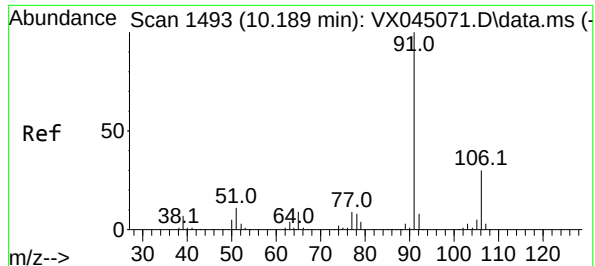
Reviewed By :John Carbone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 4.781 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:131 Resp: 5702
Ion Ratio Lower Upper
131 100
133 96.1 48.6 145.9
119 73.4 33.9 101.7





#67

Ethyl Benzene

Concen: 4.725 ug/l

RT: 10.195 min Scan# 1493

Delta R.T. 0.006 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 30918

Ion Ratio Lower Upper

91 100

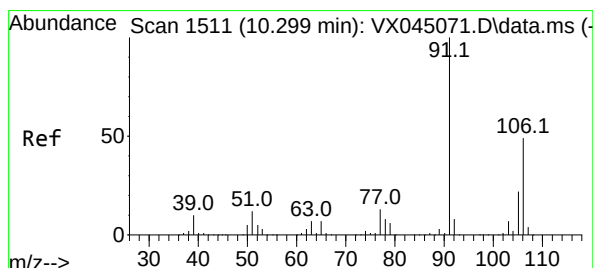
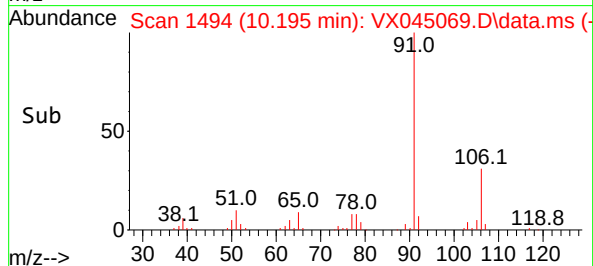
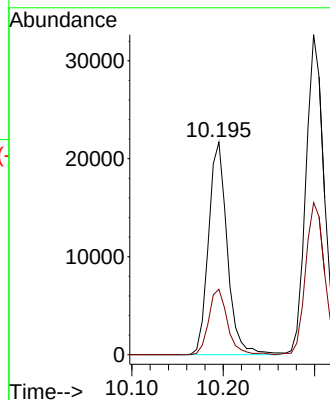
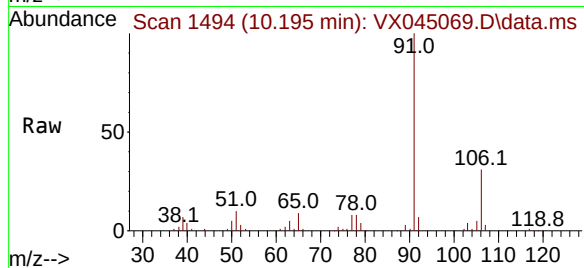
106 30.8 23.9 35.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#68

m/p-Xylenes

Concen: 9.608 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX045069.D

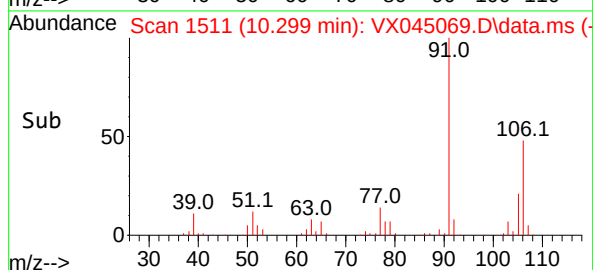
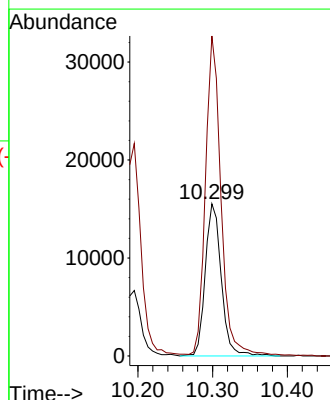
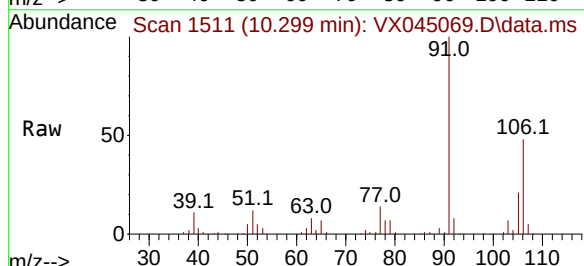
Acq: 28 Feb 2025 02:13

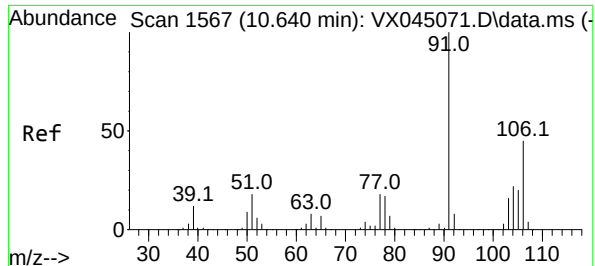
Tgt Ion:106 Resp: 23152

Ion Ratio Lower Upper

106 100

91 202.7 165.4 248.0





#69

o-Xylene

Concen: 4.914 ug/l

RT: 10.640 min Scan# 1188

Delta R.T. -0.000 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:106 Resp: 1188

Ion Ratio Lower Upper

106 100

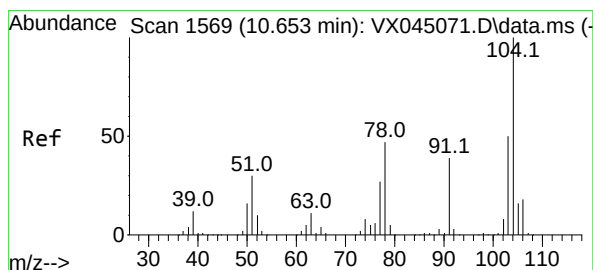
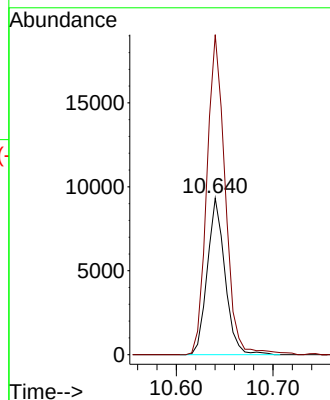
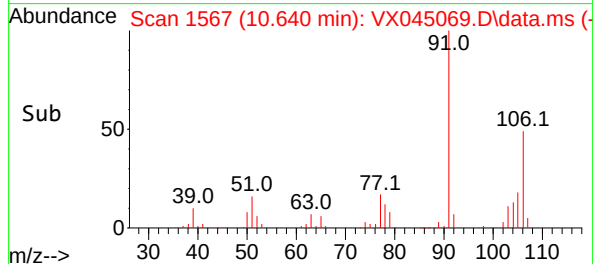
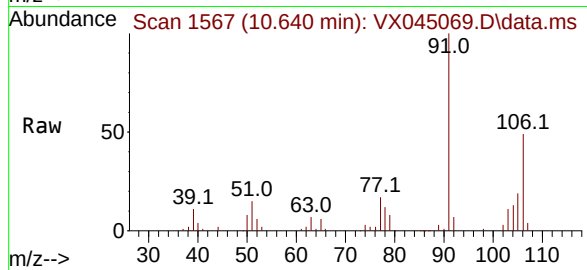
91 211.7 109.9 329.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#70

Styrene

Concen: 4.704 ug/l

RT: 10.659 min Scan# 1570

Delta R.T. 0.006 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

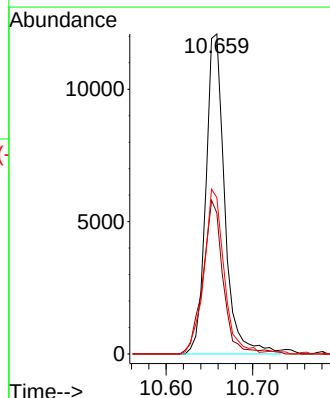
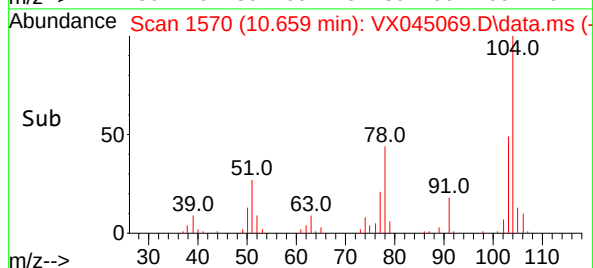
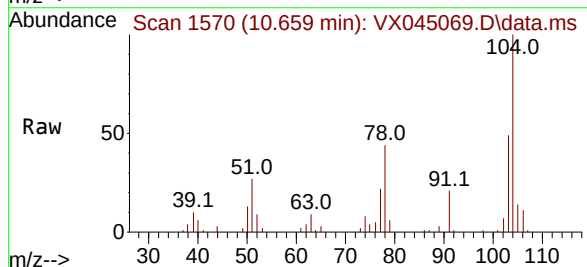
Tgt Ion:104 Resp: 18278

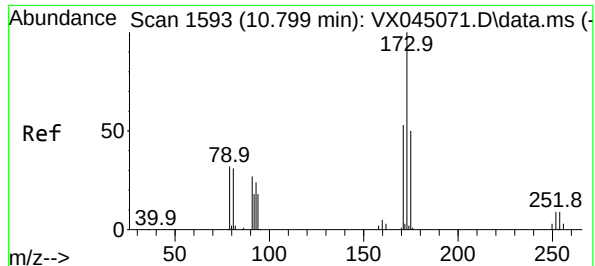
Ion Ratio Lower Upper

104 100

78 51.7 42.2 63.4

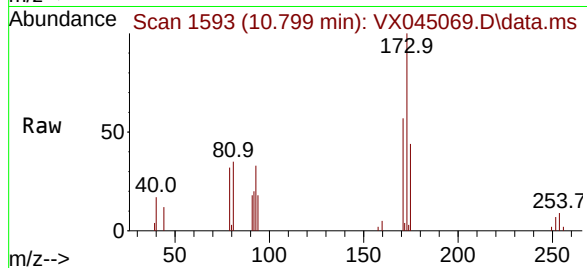
103 55.3 43.8 65.8





#71
Bromoform
Concen: 4.541 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

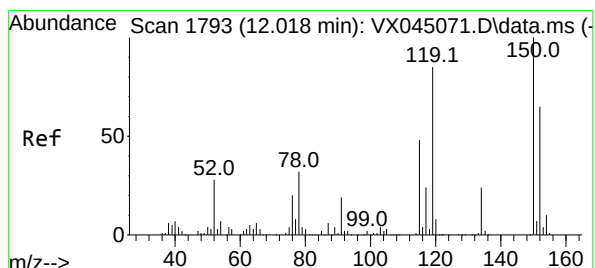
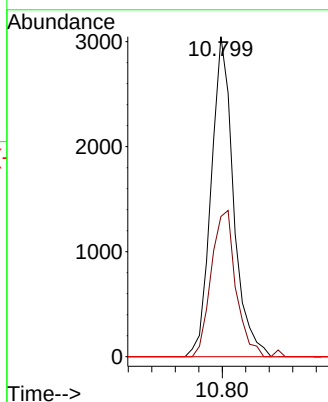
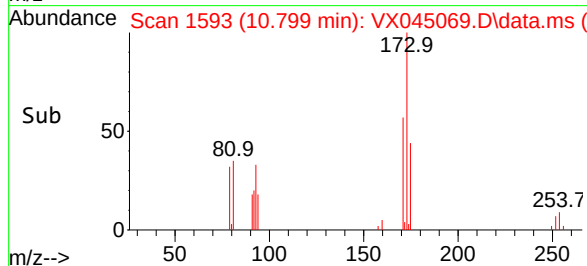
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:173 Resp: 402
Ion Ratio Lower Upper
173 100
175 50.1 24.6 73.6
254 0.0 0.0 0.0

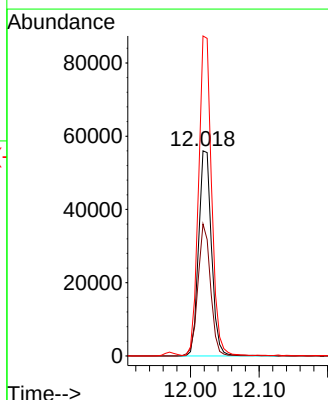
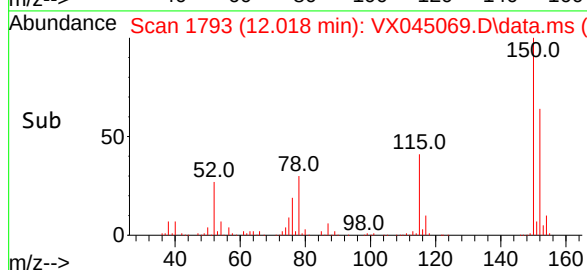
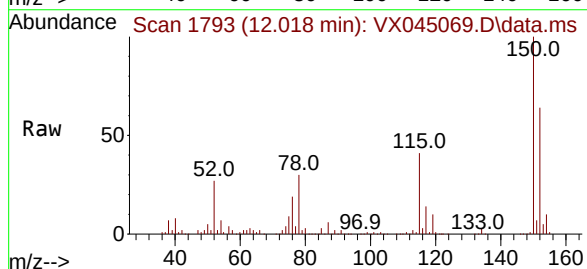
Manual Integrations
APPROVED

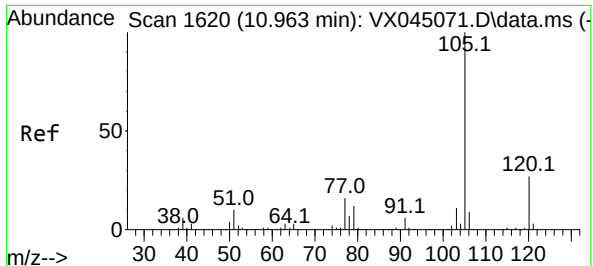
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

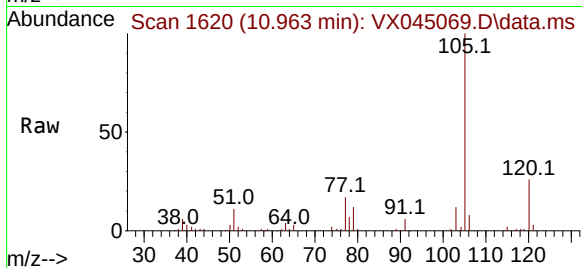
Tgt Ion:152 Resp: 73591
Ion Ratio Lower Upper
152 100
115 62.6 44.2 132.6
150 156.2 0.0 349.0





#73
Isopropylbenzene
Concen: 4.991 ug/l
RT: 10.963 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

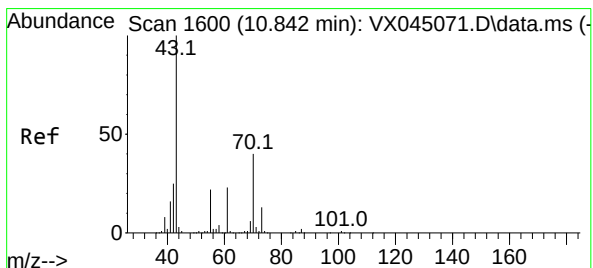
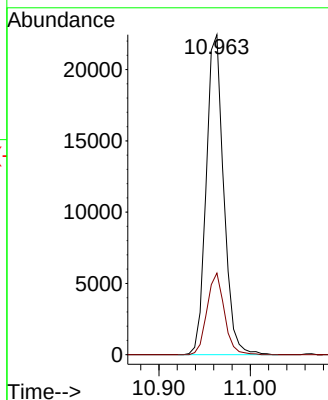
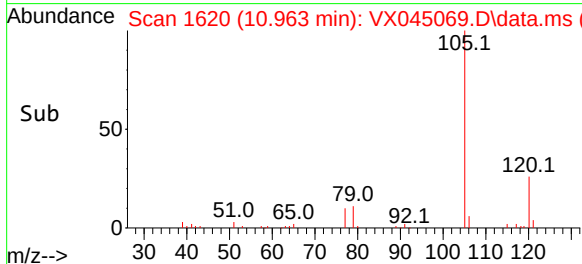
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:105 Resp: 2968
Ion Ratio Lower Upper
105 100
120 25.3 13.2 39.5

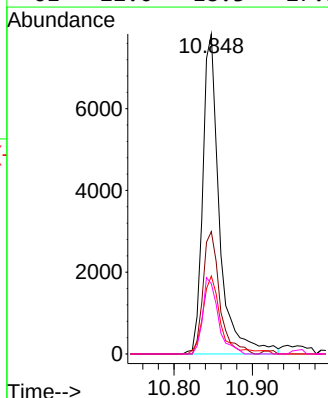
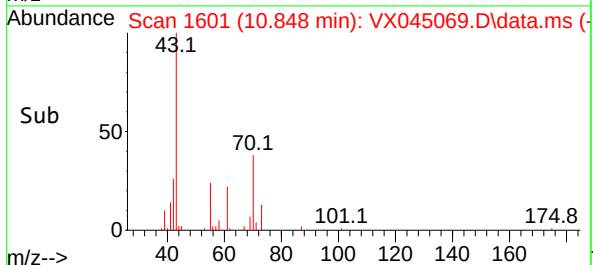
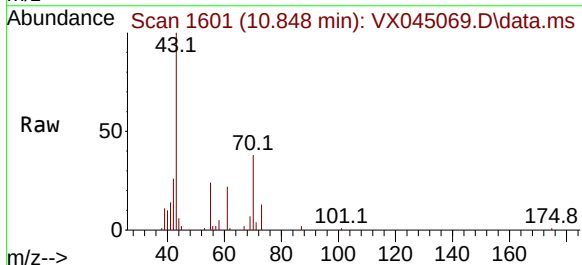
Manual Integrations
APPROVED

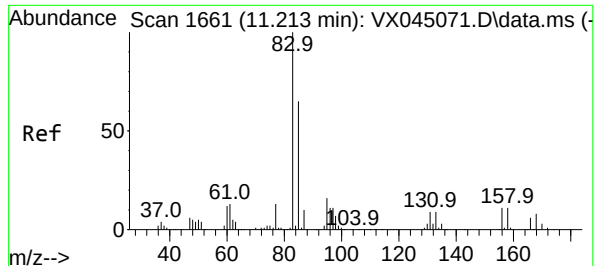
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#74
N-ethyl acetate
Concen: 4.300 ug/l
RT: 10.848 min Scan# 1601
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 43 Resp: 11609
Ion Ratio Lower Upper
43 100
70 38.1 31.8 47.6
55 25.9 18.3 27.5
61 22.0 18.3 27.5





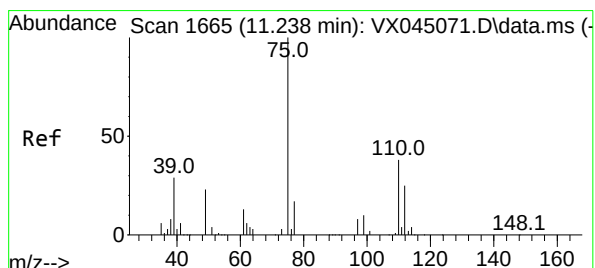
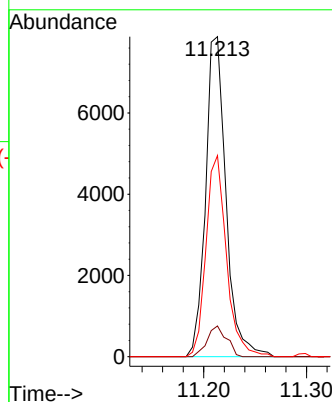
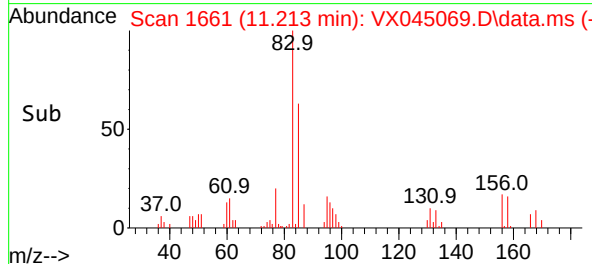
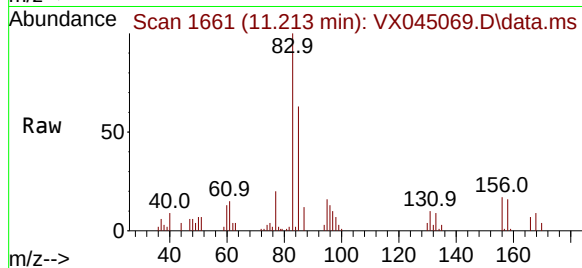
#75
1,1,2,2-Tetrachloroethane
Concen: 5.310 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 1088
Ion Ratio Lower Upper
83 100
131 9.2 4.5 13.4
85 63.1 31.7 95.1

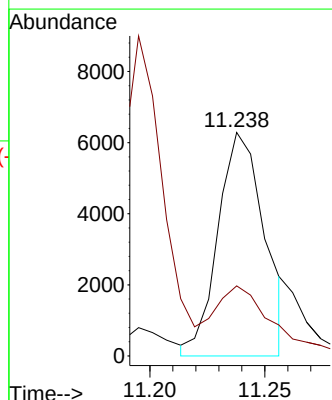
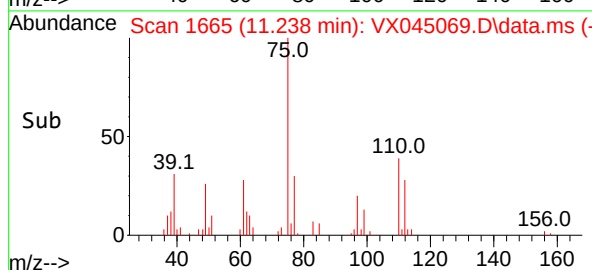
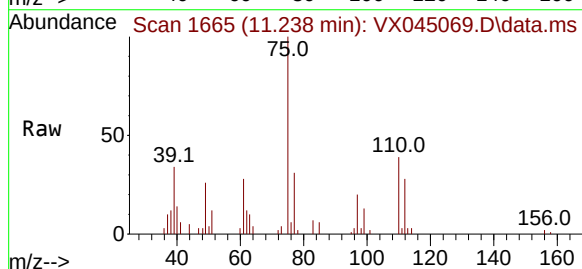
Manual Integrations
APPROVED

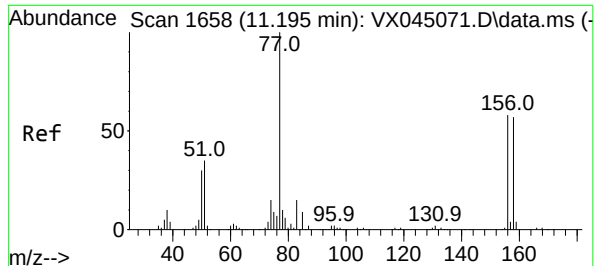
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#76
1,2,3-Trichloropropane
Concen: 5.384 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

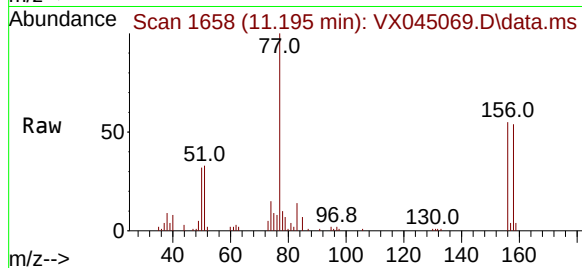
Tgt Ion: 75 Resp: 8839
Ion Ratio Lower Upper
75 100
77 39.8 20.7 62.1





#77
Bromobenzene
Concen: 5.163 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

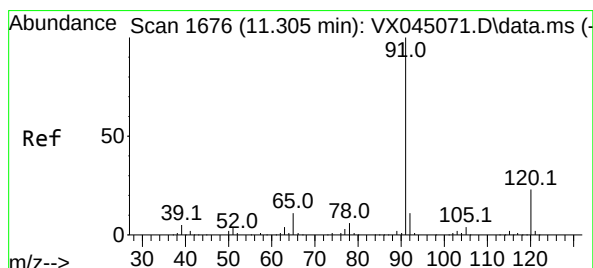
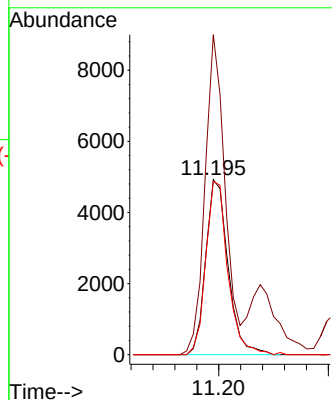
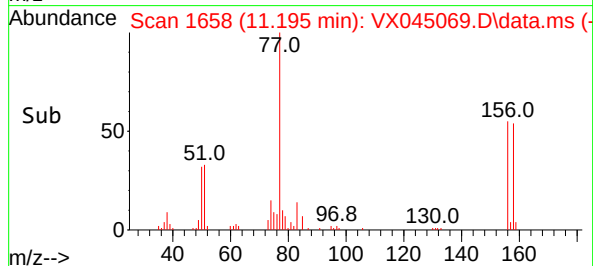
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:156 Resp: 6970
Ion Ratio Lower Upper
156 100
77 163.3 85.8 257.4
158 97.8 48.4 145.2

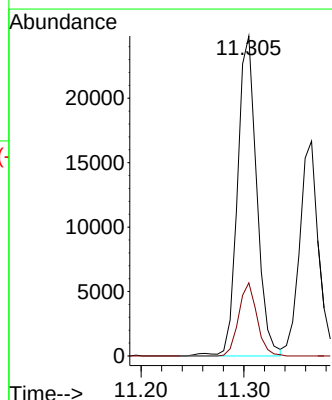
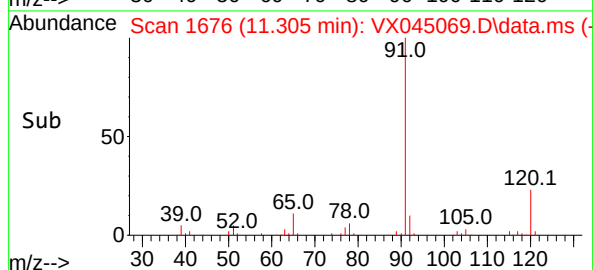
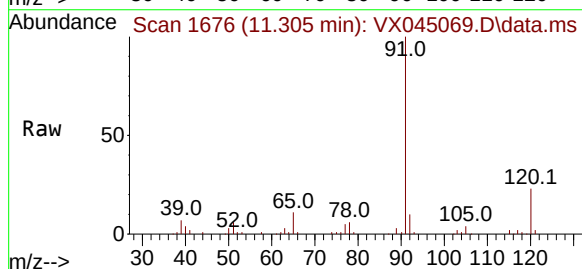
Manual Integrations
APPROVED

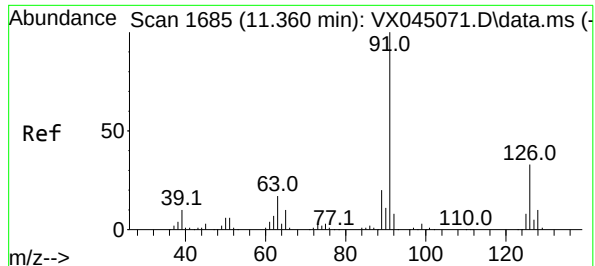
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#78
n-propylbenzene
Concen: 4.694 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 91 Resp: 32196
Ion Ratio Lower Upper
91 100
120 21.7 11.2 33.6





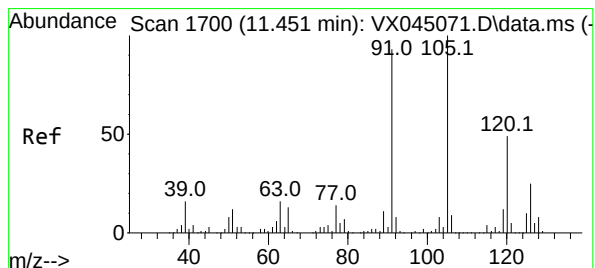
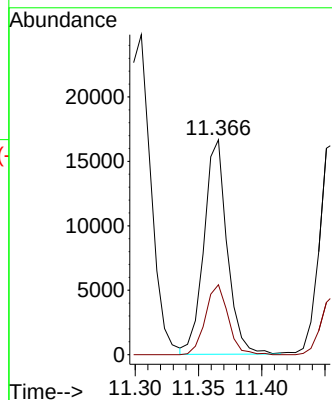
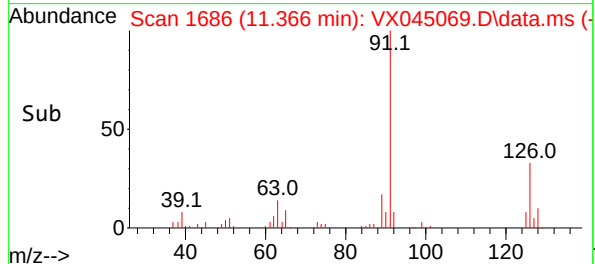
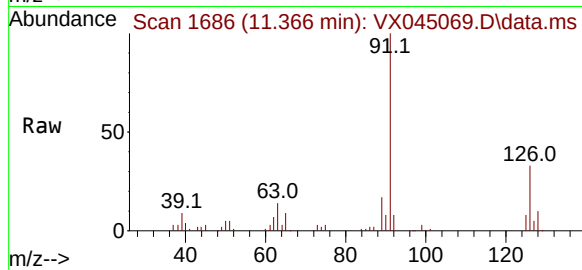
#79
2-Chlorotoluene
Concen: 5.048 ug/l
RT: 11.366 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 2125
Ion Ratio Lower Upper
91 100
126 32.0 16.4 49.4

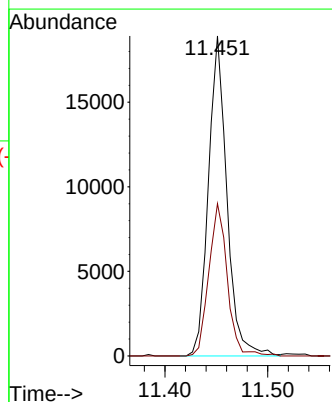
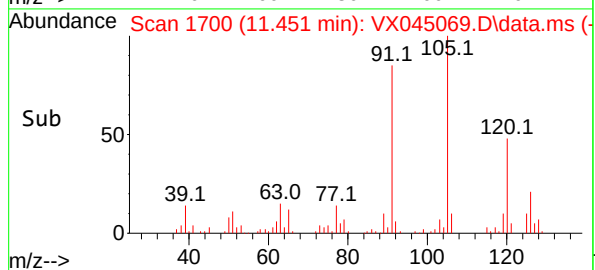
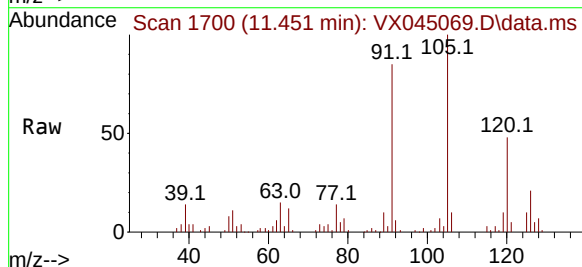
Manual Integrations
APPROVED

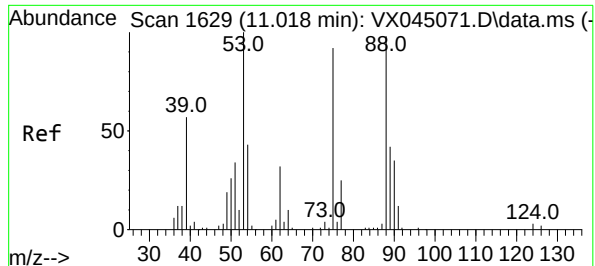
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#80
1,3,5-Trimethylbenzene
Concen: 4.897 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

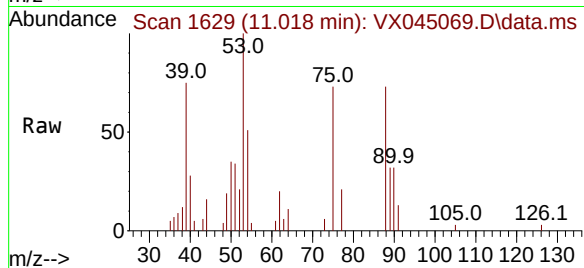
Tgt Ion:105 Resp: 23627
Ion Ratio Lower Upper
105 100
120 47.6 24.1 72.2





#81
trans-1,4-Dichloro-2-butene
Concen: 3.256 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

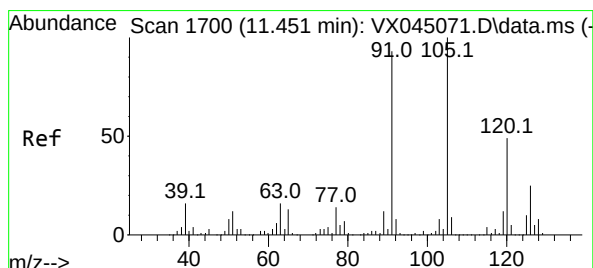
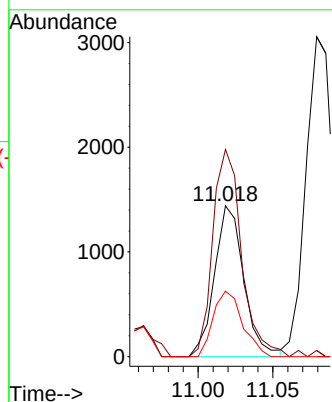
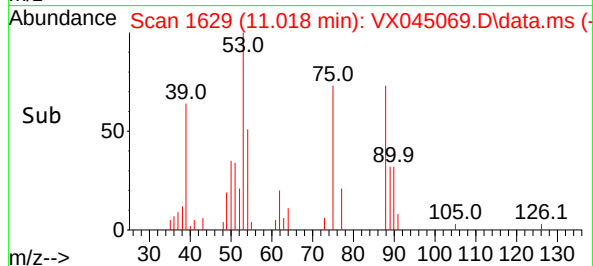
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 75 Resp: 197
Ion Ratio Lower Upper
75 100
53 134.1 88.5 132.7
89 43.4 36.2 54.4

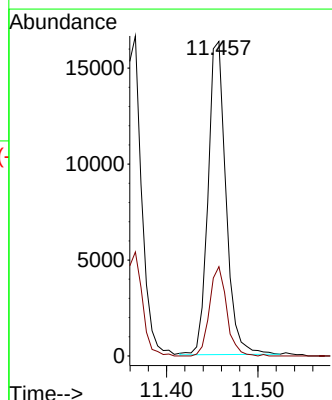
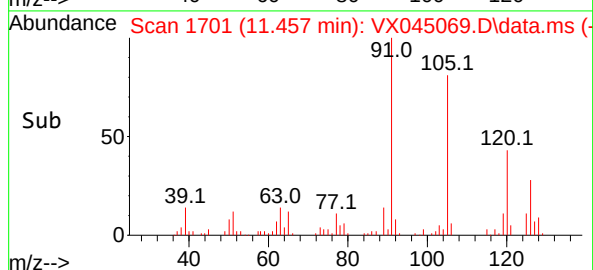
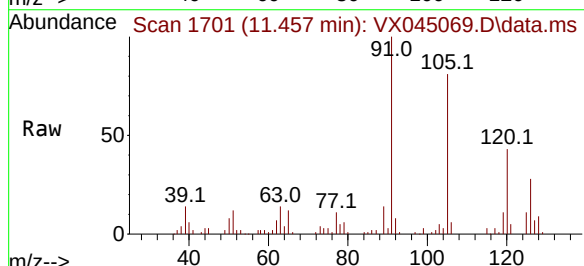
Manual Integrations
APPROVED

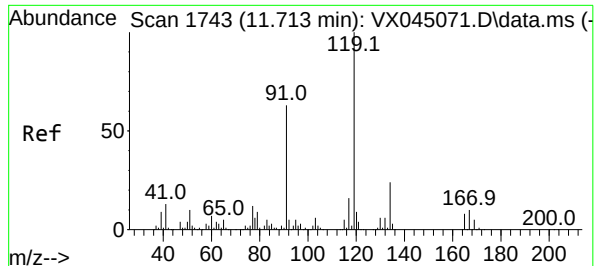
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#82
4-Chlorotoluene
Concen: 4.761 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 91 Resp: 22190
Ion Ratio Lower Upper
91 100
126 27.3 14.1 42.4





#83

tert-Butylbenzene

Concen: 4.910 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:119 Resp: 23960

Ion Ratio Lower Upper

119 100

91 59.5 30.7 92.1

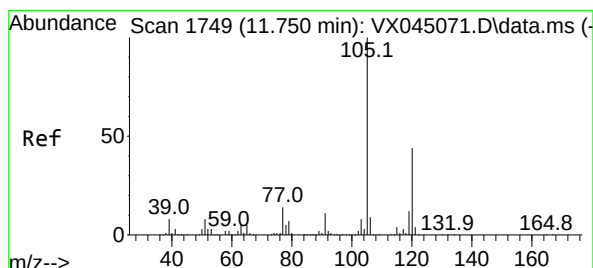
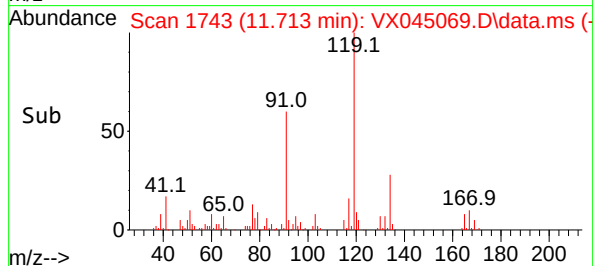
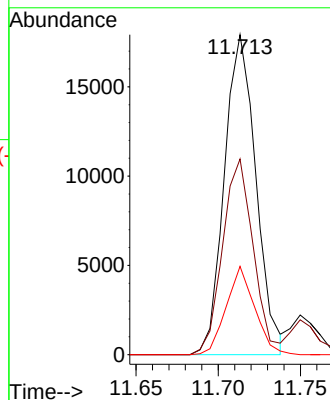
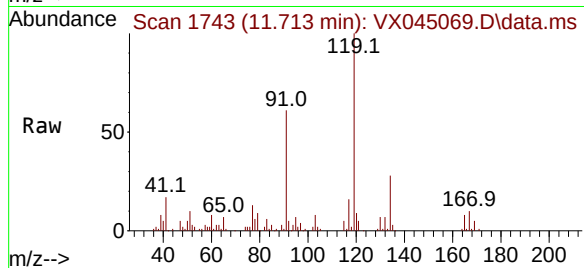
134 24.9 11.7 35.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#84

1,2,4-Trimethylbenzene

Concen: 4.960 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX045069.D

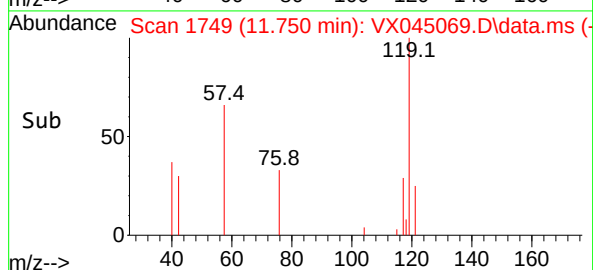
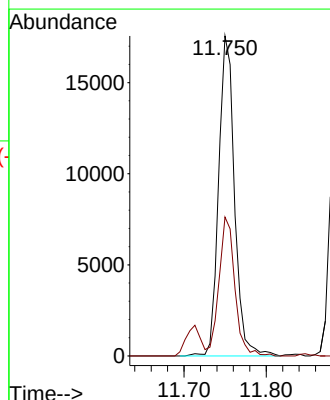
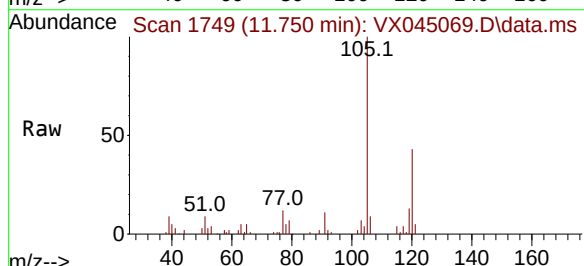
Acq: 28 Feb 2025 02:13

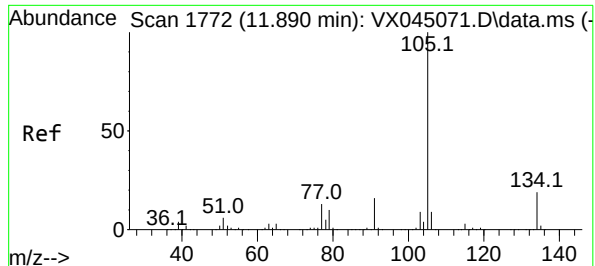
Tgt Ion:105 Resp: 23561

Ion Ratio Lower Upper

105 100

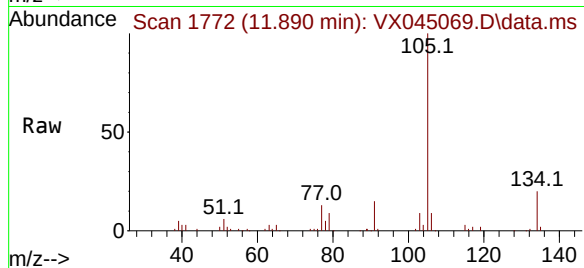
120 43.4 22.1 66.1





#85
sec-Butylbenzene
Concen: 4.687 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

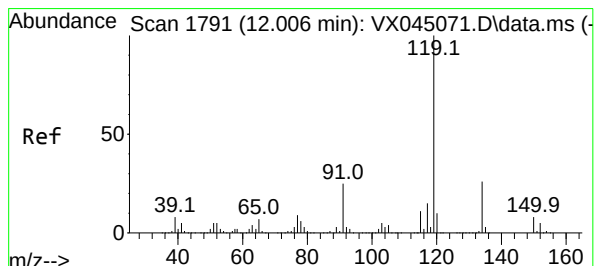
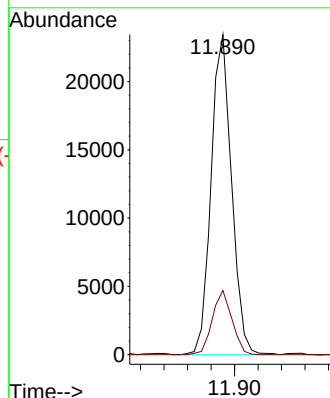
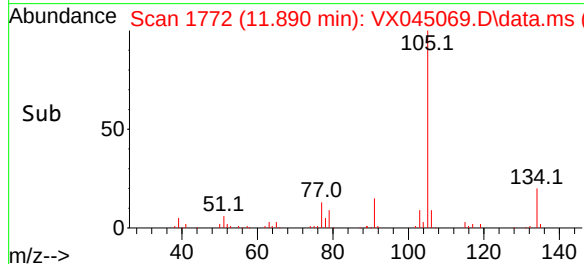
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:105 Resp: 28314
Ion Ratio Lower Upper
105 100
134 19.3 9.8 29.4

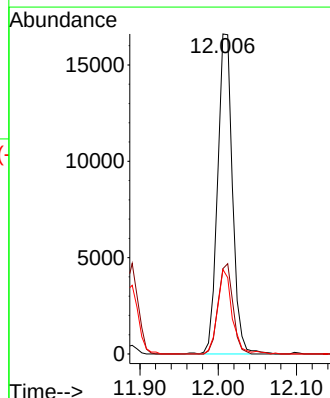
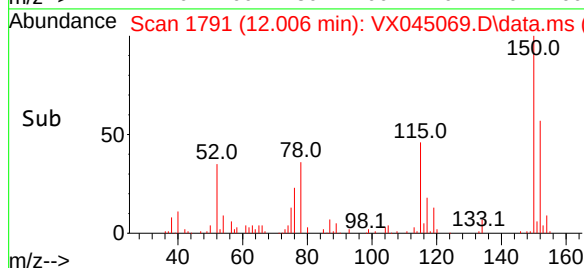
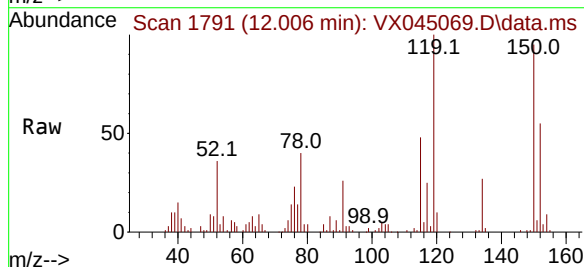
Manual Integrations
APPROVED

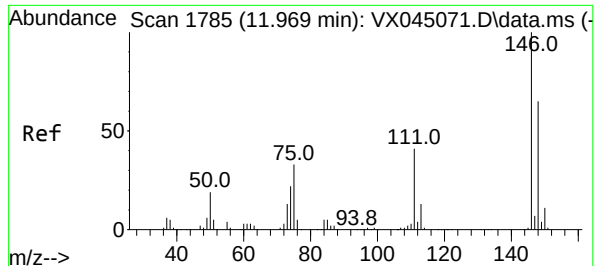
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#86
p-Isopropyltoluene
Concen: 4.532 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

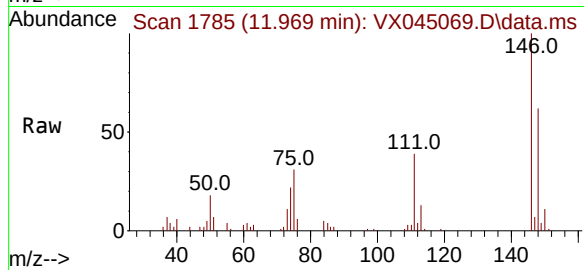
Tgt Ion:119 Resp: 21977
Ion Ratio Lower Upper
119 100
134 27.9 12.9 38.6
91 26.1 12.7 38.0





#87
1,3-Dichlorobenzene
Concen: 4.926 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

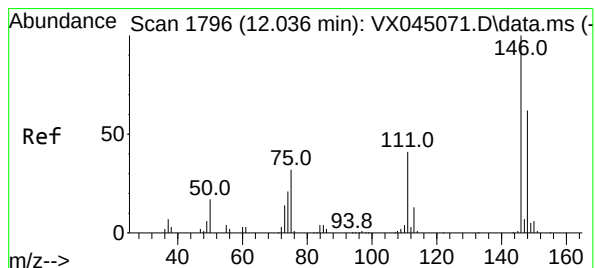
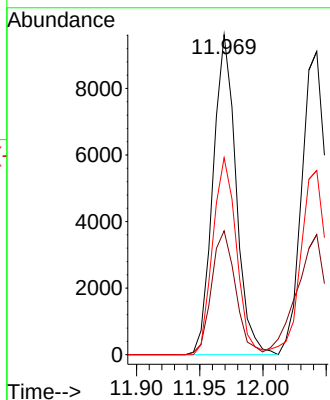
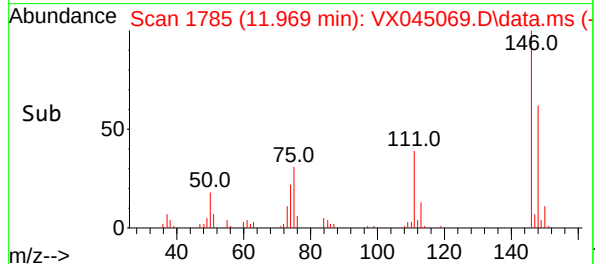
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



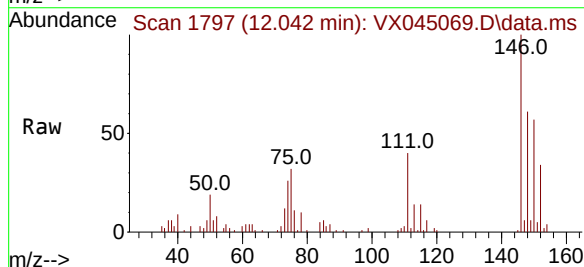
Tgt Ion:146 Resp: 1215
Ion Ratio Lower Upper
146 100
111 40.5 21.1 63.4
148 62.9 31.9 95.7

Manual Integrations
APPROVED

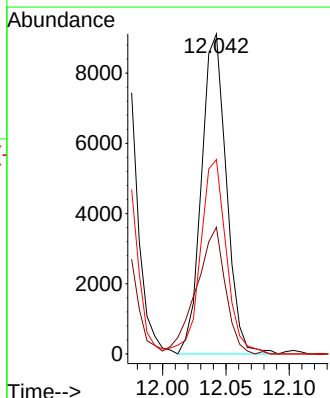
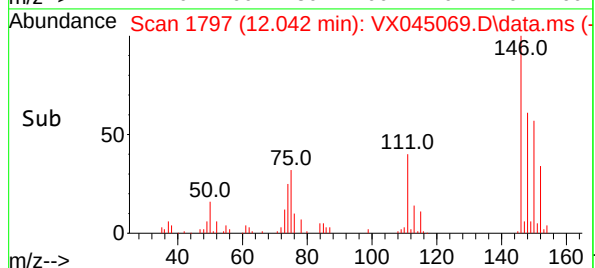
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

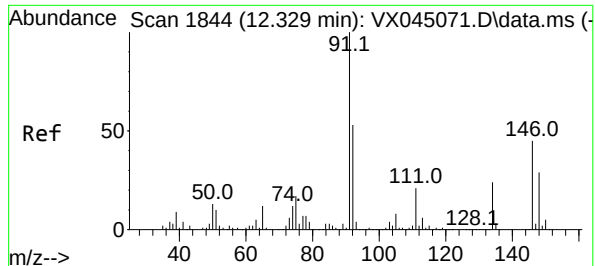


#88
1,4-Dichlorobenzene
Concen: 5.014 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13



Tgt Ion:146 Resp: 12526
Ion Ratio Lower Upper
146 100
111 46.2 20.2 60.5
148 63.5 31.9 95.9





#89

n-Butylbenzene

Concen: 4.072 ug/l

RT: 12.335 min Scan# 1844

Delta R.T. 0.006 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 1735

Ion Ratio Lower Upper

91 100

92 53.9 26.7 80.0

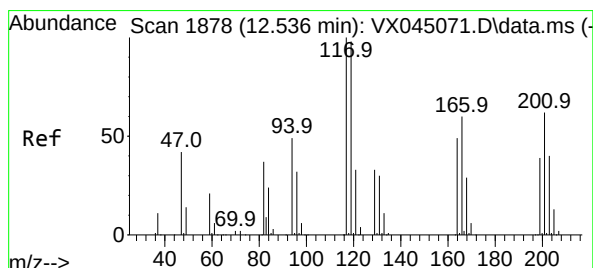
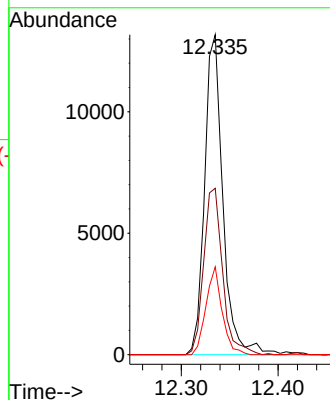
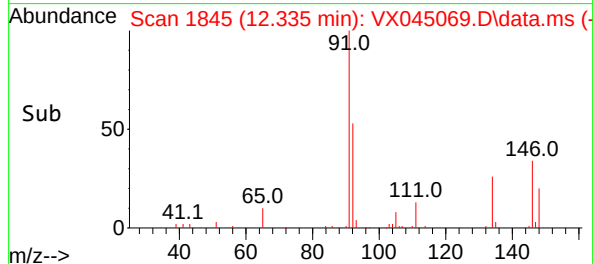
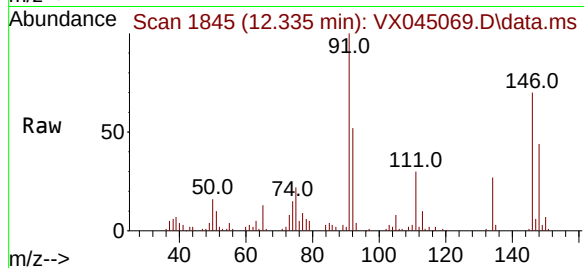
134 24.4 12.2 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#90

Hexachloroethane

Concen: 4.052 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX045069.D

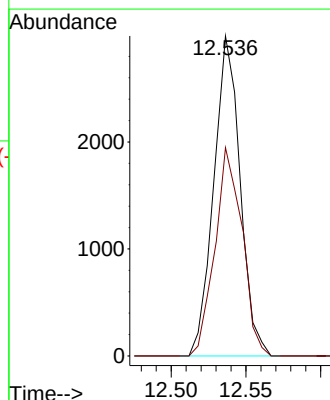
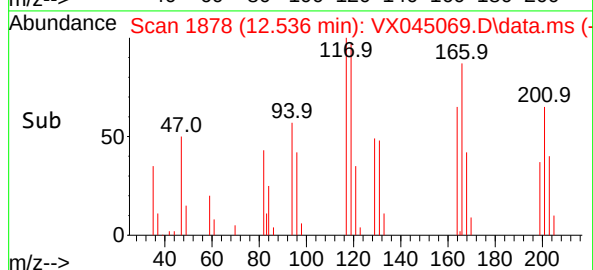
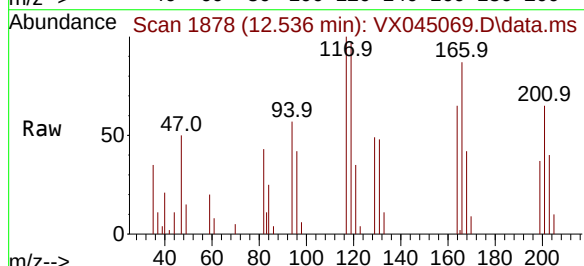
Acq: 28 Feb 2025 02:13

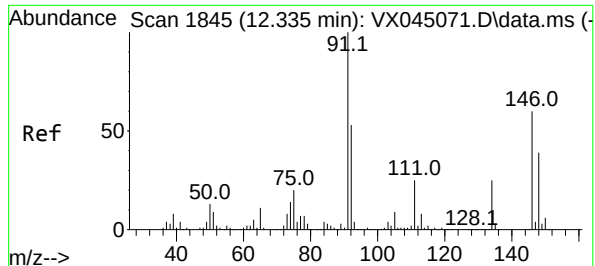
Tgt Ion:117 Resp: 3665

Ion Ratio Lower Upper

117 100

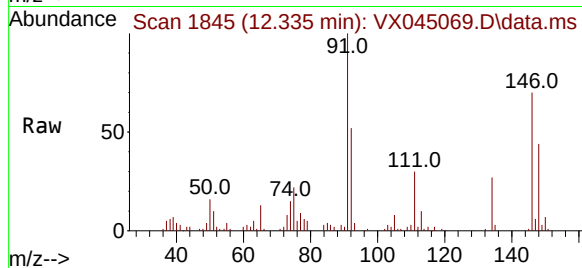
201 67.1 31.9 95.9





#91
1,2-Dichlorobenzene
Concen: 5.138 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

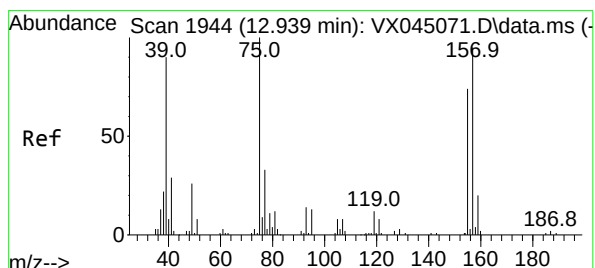
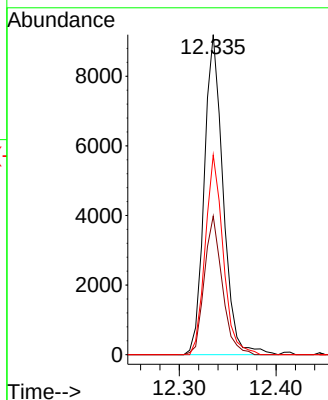
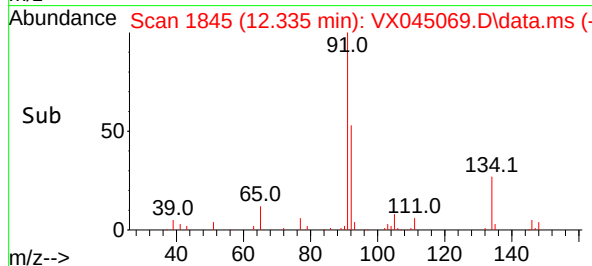
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion:146 Resp: 1247
Ion Ratio Lower Upper
146 100
111 41.2 21.6 65.0
148 59.4 31.9 95.9

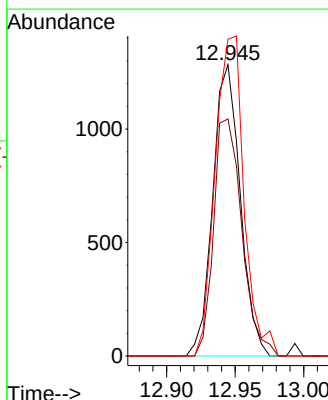
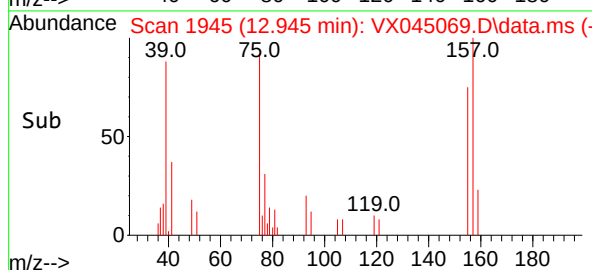
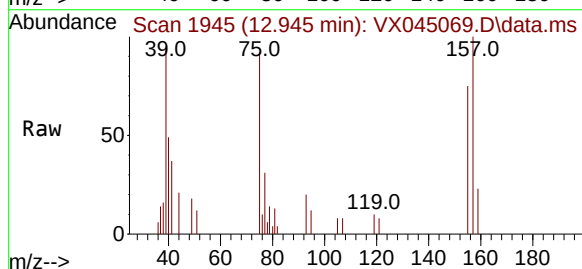
Manual Integrations
APPROVED

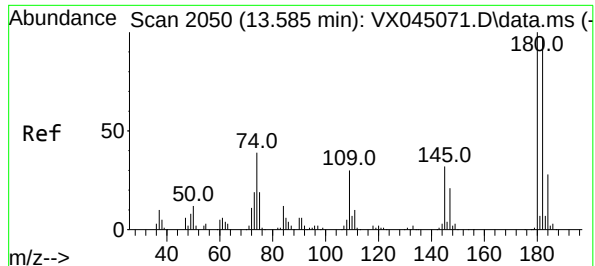
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 4.712 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

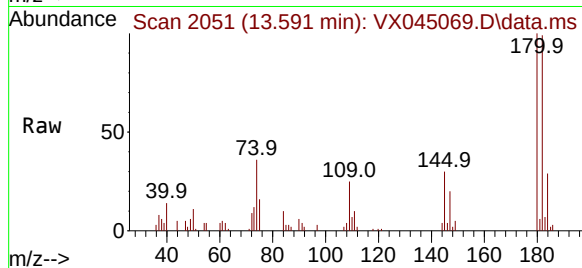
Tgt Ion: 75 Resp: 1787
Ion Ratio Lower Upper
75 100
155 83.8 39.6 118.7
157 115.4 51.1 153.4





#93
1,2,4-Trichlorobenzene
Concen: 4.114 ug/l
RT: 13.591 min Scan# 2051
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

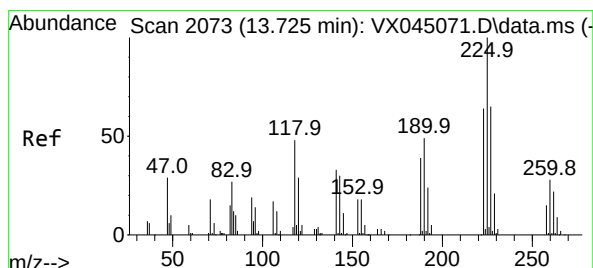
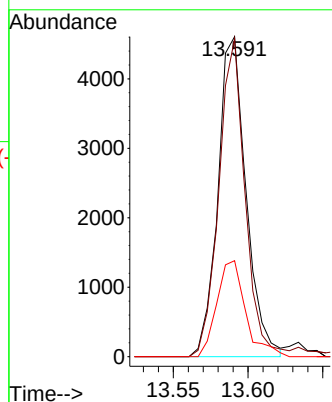
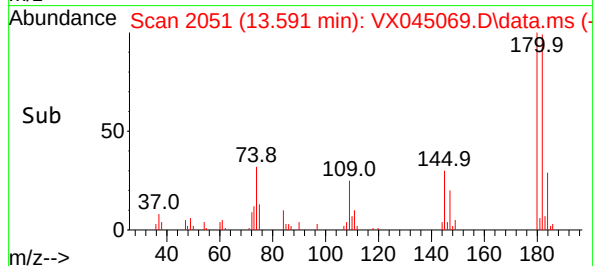
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion:180 Resp: 6040
Ion Ratio Lower Upper
180 100
182 92.4 47.3 141.9
145 30.6 16.3 48.9

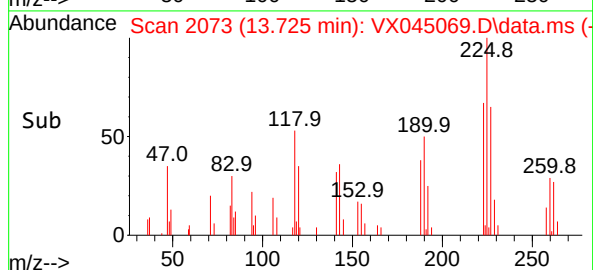
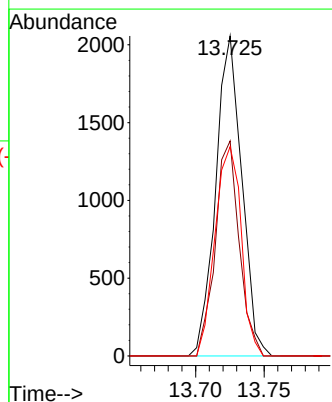
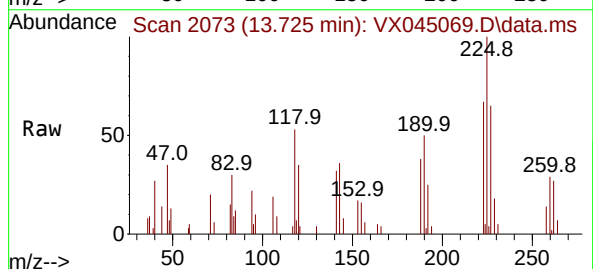
Manual Integrations
APPROVED

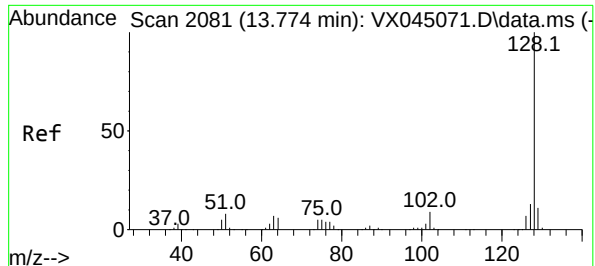
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#94
Hexachlorobutadiene
Concen: 4.640 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

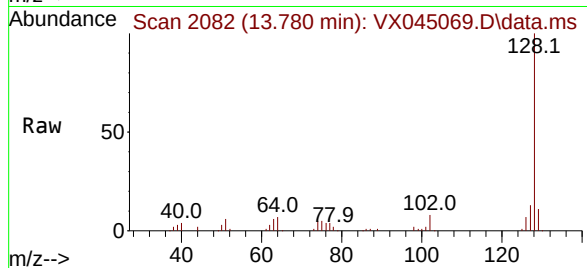
Tgt Ion:225 Resp: 2716
Ion Ratio Lower Upper
225 100
223 61.8 31.9 95.7
227 65.5 31.4 94.0





#95
Naphthalene
Concen: 4.287 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

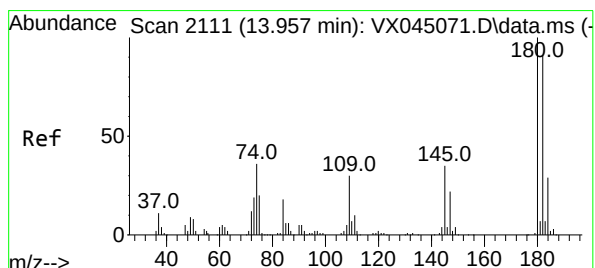
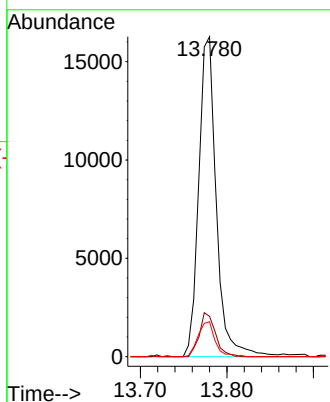
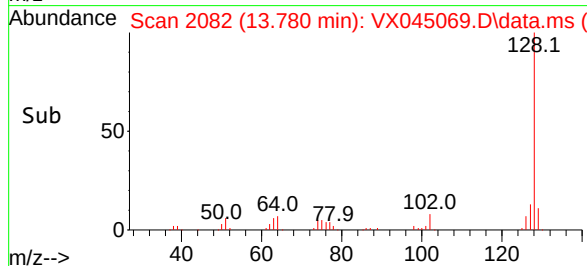
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:128 Resp: 2292
Ion Ratio Lower Upper
128 100
127 12.6 10.3 15.5
129 10.6 8.7 13.1

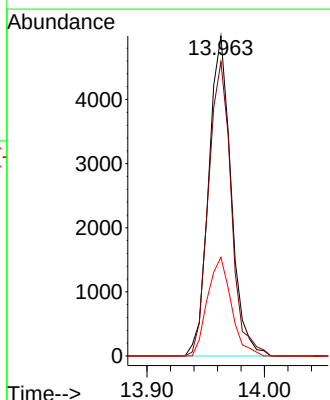
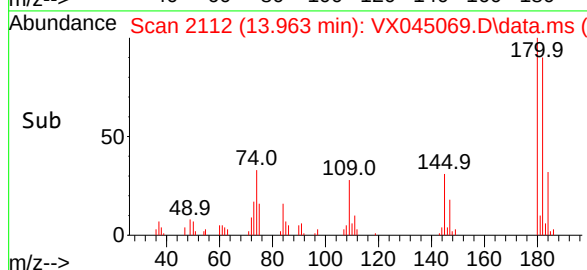
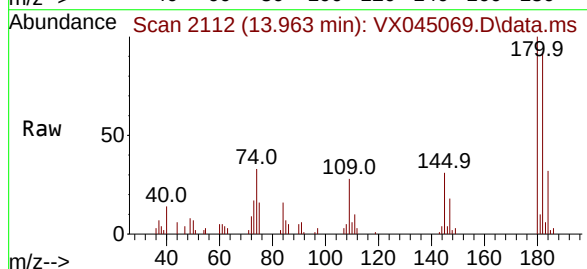
Manual Integrations
APPROVED

Reviewed By :John Carbone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.437 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:180 Resp: 6600
Ion Ratio Lower Upper
180 100
182 93.3 47.5 142.6
145 32.6 17.0 50.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
 Data File : VX045070.D
 Acq On : 28 Feb 2025 02:37
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Quant Time: Feb 28 05:33:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 05:28:02 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 02/28/2025
 Supervised By : Mahesh Dadoda 02/28/2025

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

Internal Standards						
1) Pentafluorobenzene	5.543	168	97338	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	177403	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	157714	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	70072	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	30514	21.221	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	42.440%#		
35) Dibromofluoromethane	5.385	113	23739	20.473	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	40.940%#		
50) Toluene-d8	8.646	98	84516	19.469	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	38.940%#		
62) 4-Bromofluorobenzene	11.079	95	27856	19.215	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	38.420%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	25155	18.750	ug/l	95
3) Chloromethane	1.306	50	32219	19.736	ug/l	99
4) Vinyl Chloride	1.373	62	30134	18.899	ug/l	97
5) Bromomethane	1.593	94	11584	23.239	ug/l	99
6) Chloroethane	1.660	64	14237	23.457	ug/l	99
7) Trichlorofluoromethane	1.867	101	40880	20.015	ug/l	99
8) Diethyl Ether	2.135	74	15911	21.437	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.312	101	23154	18.984	ug/l	98
10) Methyl Iodide	2.440	142	29500	18.867	ug/l	100
11) Tert butyl alcohol	2.983	59	31246	118.627	ug/l	98
12) 1,1-Dichloroethene	2.306	96	23810	19.014	ug/l	97
13) Acrolein	2.239	56	33586	117.747	ug/l	99
14) Allyl chloride	2.654	41	42993	19.096	ug/l	100
15) Acrylonitrile	3.068	53	84182	117.598	ug/l	100
16) Acetone	2.385	43	74701	126.257	ug/l	99
17) Carbon Disulfide	2.501	76	61802	18.139	ug/l	99
18) Methyl Acetate	2.709	43	35157	19.729	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	82833	20.689	ug/l	96
20) Methylene Chloride	2.782	84	29281	20.895	ug/l	94
21) trans-1,2-Dichloroethene	3.080	96	23471	19.057	ug/l	97
22) Diisopropyl ether	3.763	45	90378	20.995	ug/l	93
23) Vinyl Acetate	3.721	43	381808	108.038	ug/l	99
24) 1,1-Dichloroethane	3.605	63	49826	20.716	ug/l	99
25) 2-Butanone	4.562	43	118713	124.449	ug/l	97
26) 2,2-Dichloropropane	4.470	77	22886	12.799	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	29788	20.065	ug/l	99
28) Bromochloromethane	4.891	49	23869	20.579	ug/l	99
29) Tetrahydrofuran	5.007	42	77433	122.519	ug/l	99
30) Chloroform	5.086	83	49751	21.147	ug/l	97
31) Cyclohexane	5.464	56	42340	19.181	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	39276	19.831	ug/l	99
36) 1,1-Dichloropropene	5.684	75	31519	18.903	ug/l	99
37) Ethyl Acetate	4.714	43	43097	22.714	ug/l	99
38) Carbon Tetrachloride	5.671	117	31694	19.334	ug/l	97
39) Methylcyclohexane	7.372	83	39769	18.676	ug/l	97
40) Benzene	6.031	78	105787	20.298	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
 Data File : VX045070.D
 Acq On : 28 Feb 2025 02:37
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 05:33:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M

Quant Title : SW846 8260

QLast Update : Fri Feb 28 05:28:02 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.928	41	23924	23.605	ug/l	97
42) 1,2-Dichloroethane	6.086	62	38653	22.886	ug/l	99
43) Isopropyl Acetate	6.348	43	66727	22.094	ug/l	99
44) Trichloroethene	7.122	130	24052	20.191	ug/l	98
45) 1,2-Dichloropropane	7.427	63	27128	20.945	ug/l	99
46) Dibromomethane	7.580	93	19323	21.357	ug/l	97
47) Bromodichloromethane	7.817	83	38038	21.732	ug/l	97
48) Methyl methacrylate	7.695	41	32627	22.757	ug/l	98
49) 1,4-Dioxane	7.665	88	14602	479.170	ug/l	97
51) 4-Methyl-2-Pentanone	8.573	43	229615	124.081	ug/l	98
52) Toluene	8.714	92	63326	20.463	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	30917	17.871	ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	36118	18.675	ug/l	97
55) 1,1,2-Trichloroethane	9.152	97	26358	21.992	ug/l	99
56) Ethyl methacrylate	9.116	69	39850	20.791	ug/l	97
57) 1,3-Dichloropropane	9.305	76	45644	21.836	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	96311	102.342	ug/l	99
59) 2-Hexanone	9.433	43	168768	126.428	ug/l	100
60) Dibromochloromethane	9.518	129	27705	21.668	ug/l	99
61) 1,2-Dibromoethane	9.610	107	26311	21.764	ug/l	98
64) Tetrachloroethene	9.268	164	20140	20.102	ug/l	97
65) Chlorobenzene	10.079	112	68777	20.316	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.158	131	22508	20.627	ug/l	97
67) Ethyl Benzene	10.189	91	119165	19.905	ug/l	100
68) m/p-Xylenes	10.299	106	89735	40.699	ug/l	98
69) o-Xylene	10.640	106	44281	20.018	ug/l	98
70) Styrene	10.652	104	73832	20.767	ug/l	98
71) Bromoform	10.799	173	17403	21.449	ug/l #	99
73) Isopropylbenzene	10.963	105	112099	19.794	ug/l	99
74) N-amyl acetate	10.841	43	52972	20.606	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	42413	21.738	ug/l	100
76) 1,2,3-Trichloropropane	11.237	75	33440m	21.394	ug/l	
77) Bromobenzene	11.195	156	26310	20.466	ug/l	99
78) n-propylbenzene	11.305	91	128284	19.641	ug/l	100
79) 2-Chlorotoluene	11.359	91	79275	19.775	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	94545	20.581	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	8759	15.196	ug/l	96
82) 4-Chlorotoluene	11.451	91	86281	19.443	ug/l	98
83) tert-Butylbenzene	11.713	119	93670	20.159	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	94734	20.943	ug/l	100
85) sec-Butylbenzene	11.890	105	115953	20.160	ug/l	100
86) p-Isopropyltoluene	12.006	119	91554	19.827	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	47934	20.400	ug/l	97
88) 1,4-Dichlorobenzene	12.042	146	46657	19.615	ug/l	99
89) n-Butylbenzene	12.329	91	78135	19.249	ug/l	100
90) Hexachloroethane	12.536	117	15919	18.483	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	48632	21.031	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.944	75	7987	22.119	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	27424	19.617	ug/l	99
94) Hexachlorobutadiene	13.725	225	10934	19.616	ug/l	99
95) Naphthalene	13.774	128	108350	21.279	ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	28937	20.432	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045070.D
Acq On : 28 Feb 2025 02:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 05:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

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

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

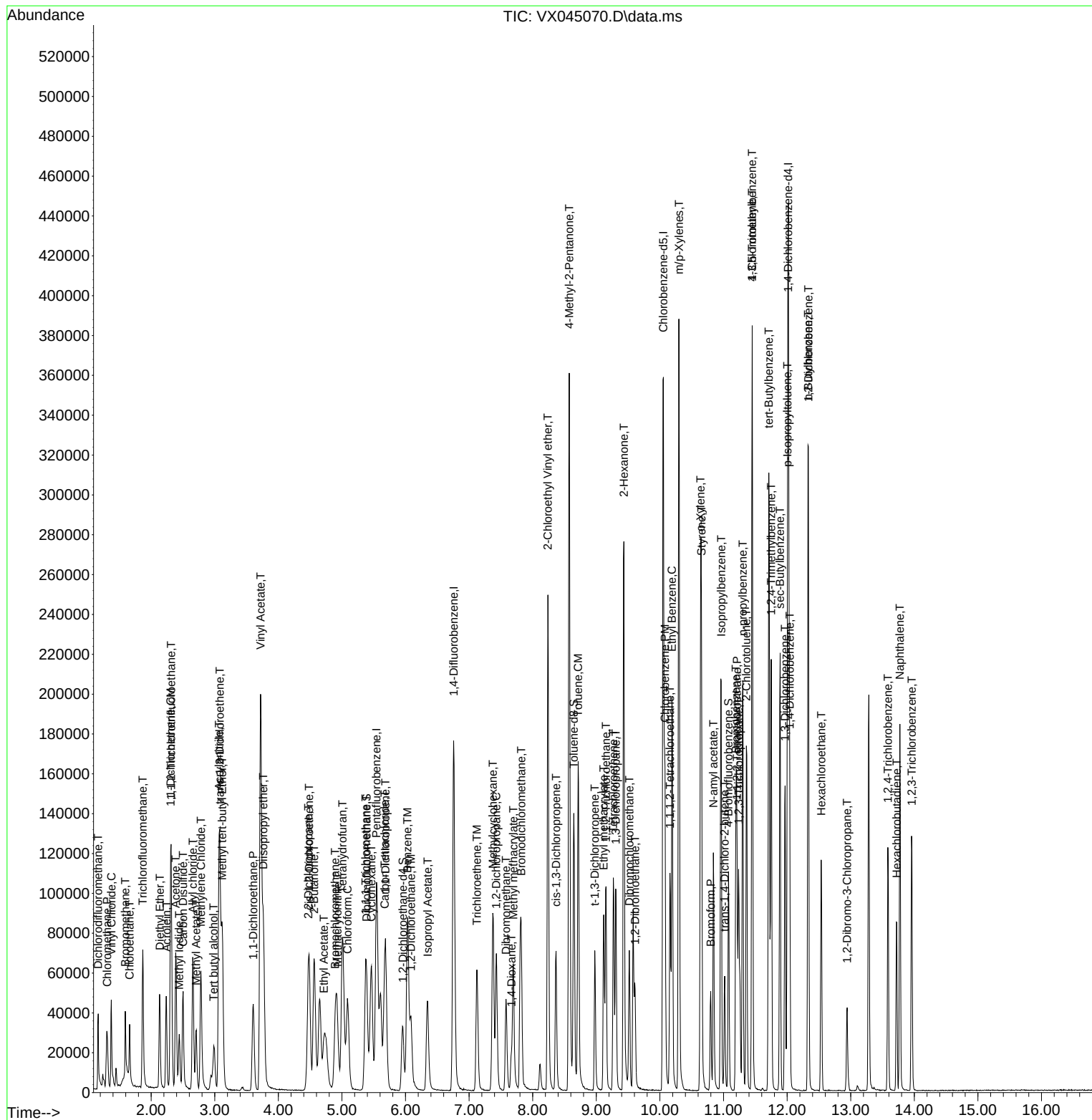
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045070.D
Acq On : 28 Feb 2025 02:37
Operator : JC/MD
Sample : VSTDIC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

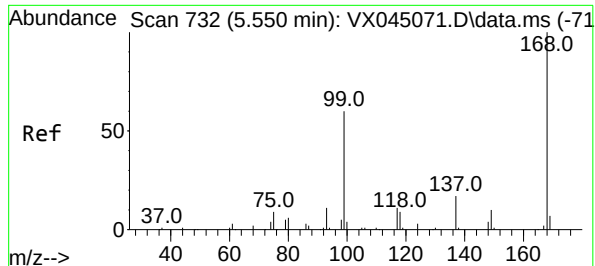
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

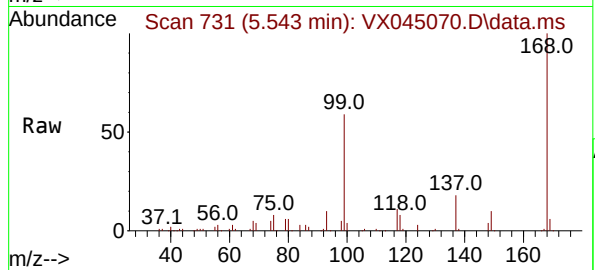
Quant Time: Feb 28 05:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 71
Delta R.T. -0.007 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

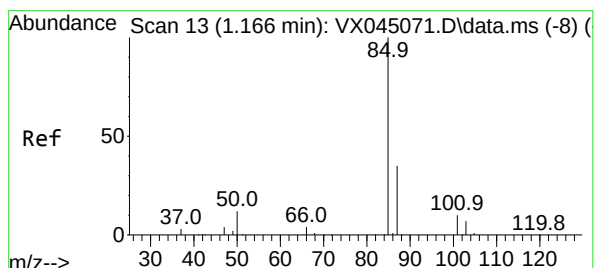
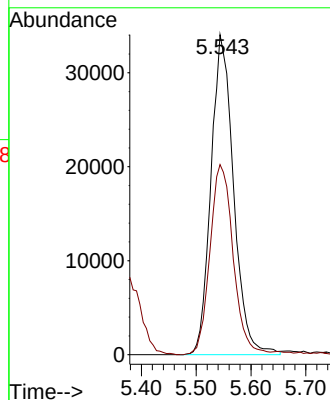
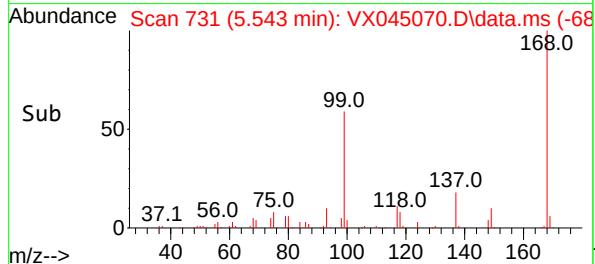
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:168 Resp: 97338
Ion Ratio Lower Upper
168 100
99 59.4 48.2 72.4

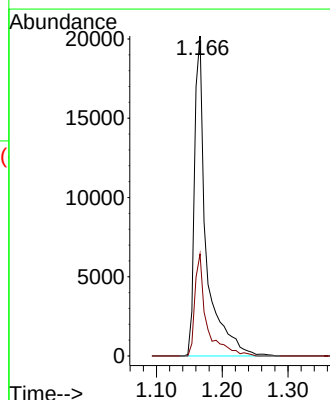
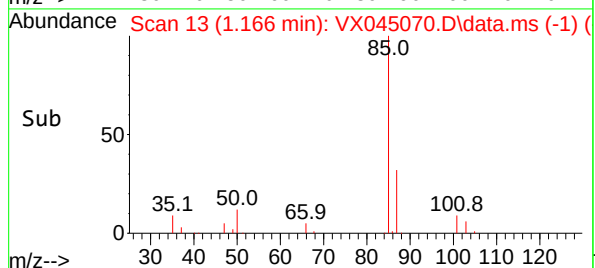
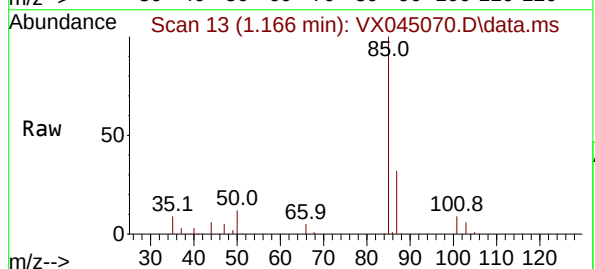
Manual Integrations
APPROVED

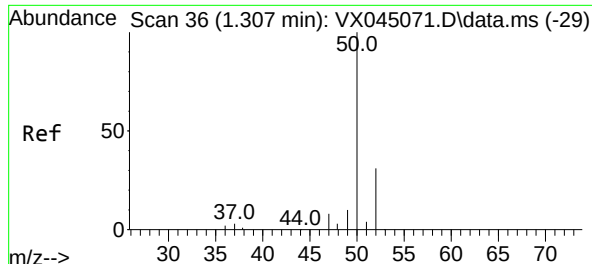
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#2
Dichlorodifluoromethane
Concen: 18.750 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

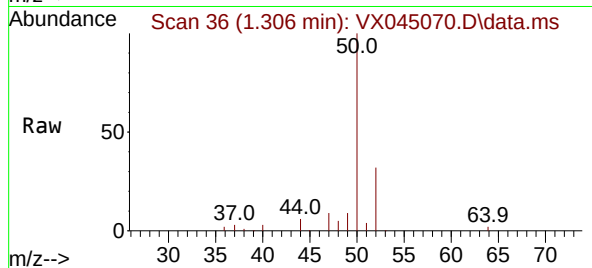
Tgt Ion: 85 Resp: 25155
Ion Ratio Lower Upper
85 100
87 31.9 17.4 52.3





#3
Chloromethane
Concen: 19.736 ug/l
RT: 1.306 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

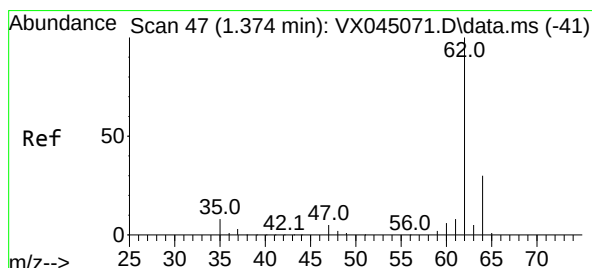
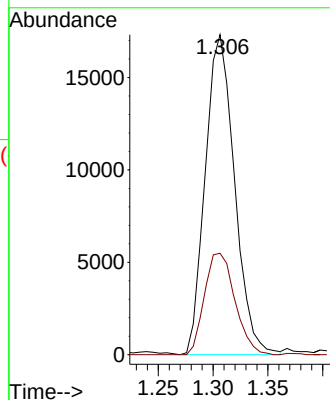
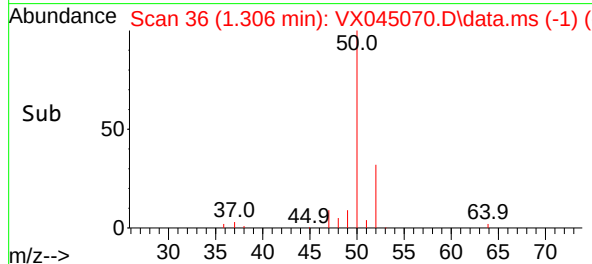
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 50 Resp: 32219
Ion Ratio Lower Upper
50 100
52 31.7 25.0 37.4

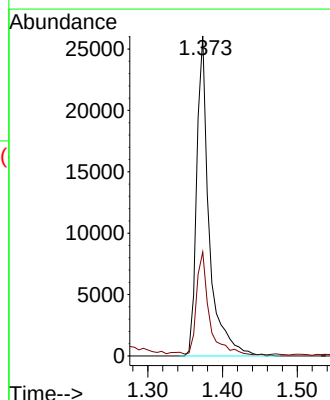
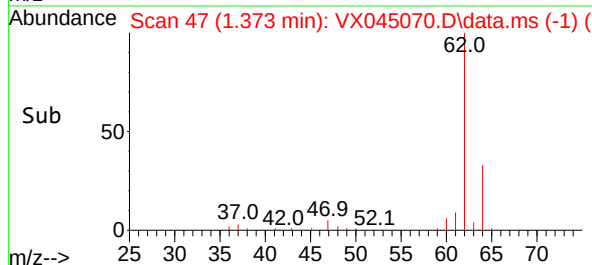
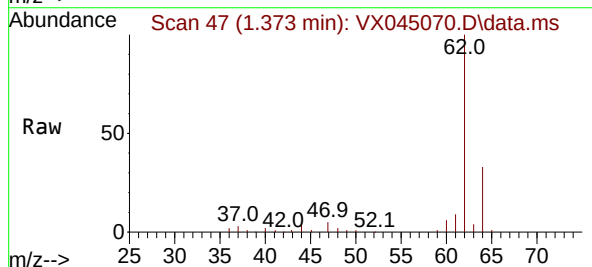
Manual Integrations
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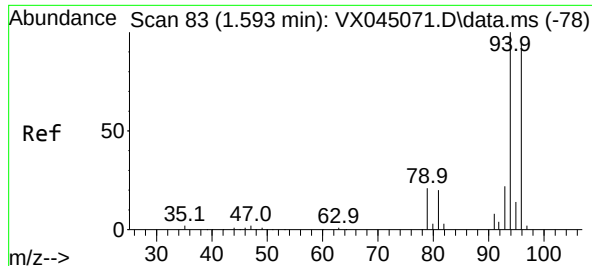
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#4
Vinyl Chloride
Concen: 18.899 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 62 Resp: 30134
Ion Ratio Lower Upper
62 100
64 32.0 24.3 36.5





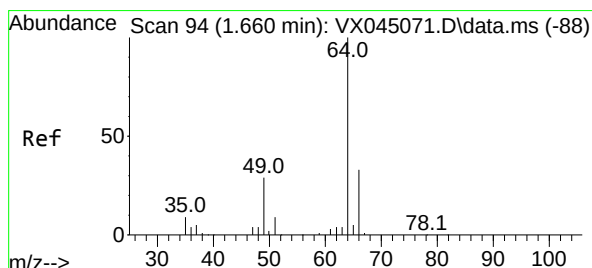
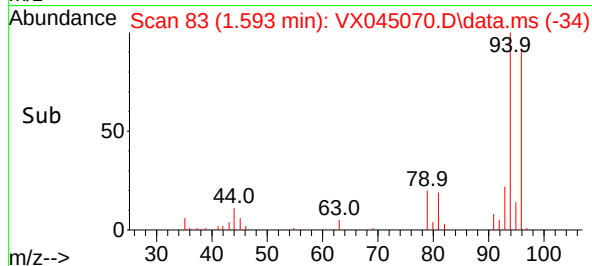
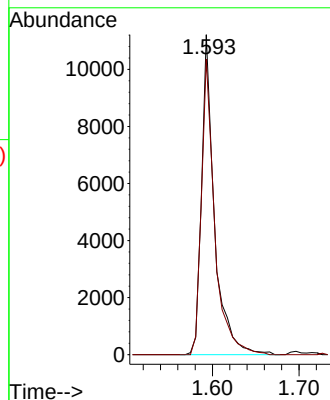
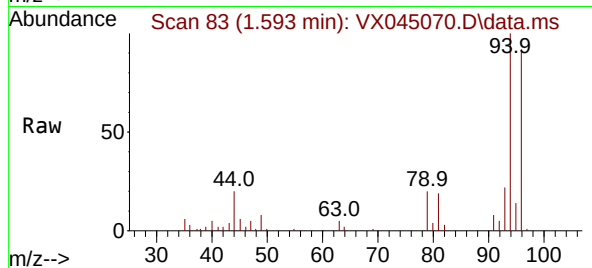
#5
Bromomethane
Concen: 23.239 ug/l
RT: 1.593 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 11584
Ion Ratio Lower Upper
94 100
96 92.4 75.0 112.4

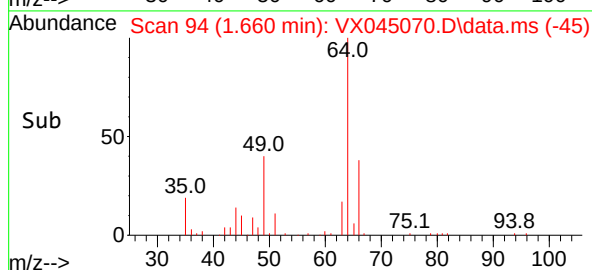
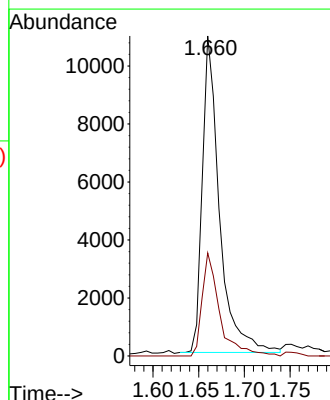
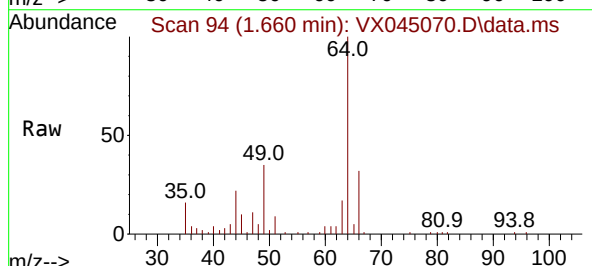
Manual Integrations
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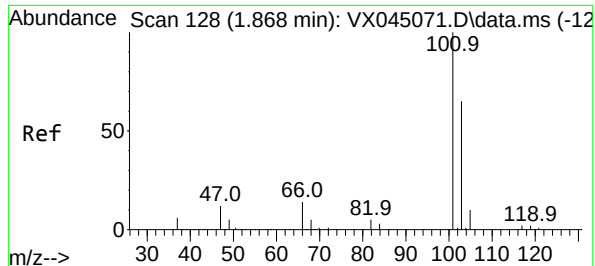
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#6
Chloroethane
Concen: 23.457 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

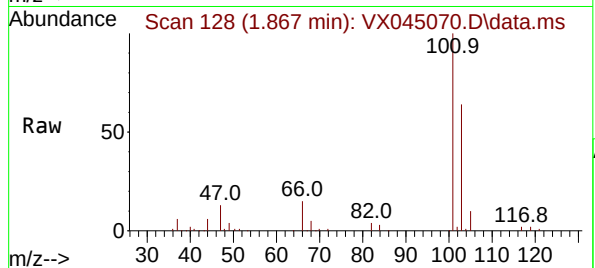
Tgt Ion: 64 Resp: 14237
Ion Ratio Lower Upper
64 100
66 32.6 26.7 40.1





#7
Trichlorofluoromethane
Concen: 20.015 ug/l
RT: 1.867 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

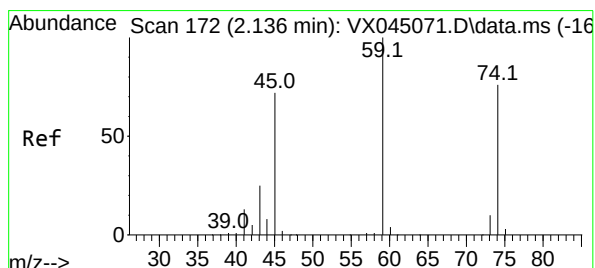
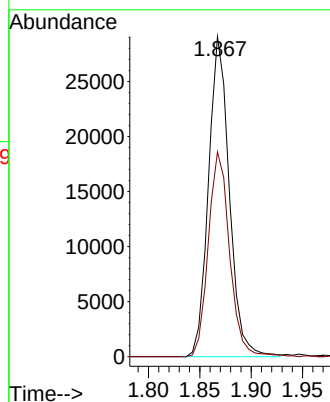
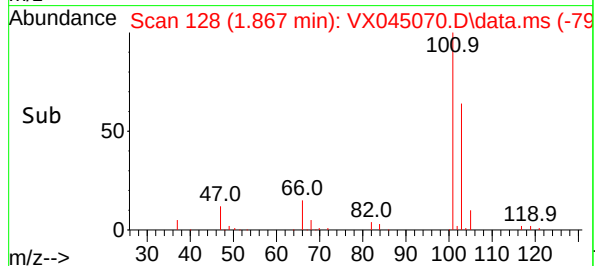
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion:101 Resp: 40880
Ion Ratio Lower Upper
101 100
103 64.0 52.1 78.1

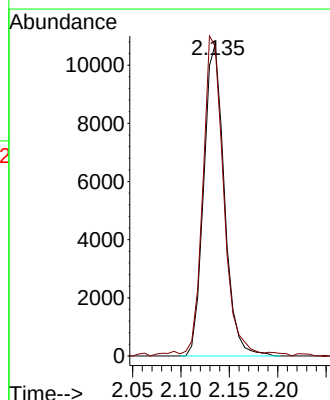
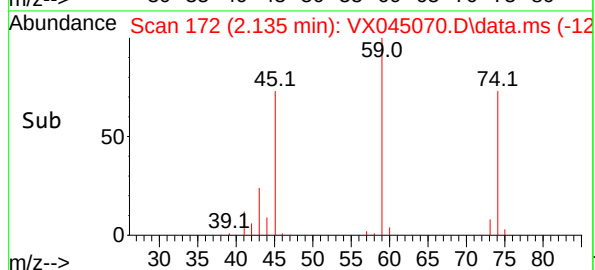
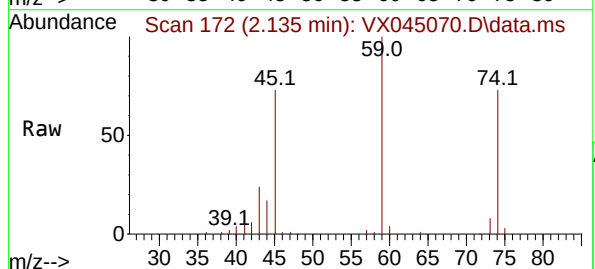
Manual Integrations
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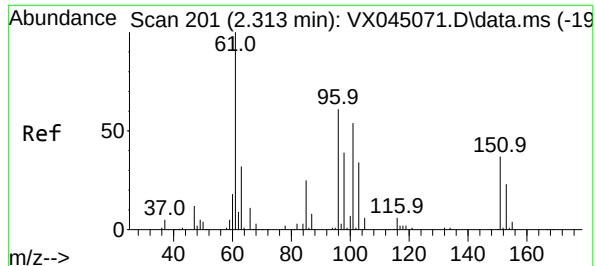
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#8
Diethyl Ether
Concen: 21.437 ug/l
RT: 2.135 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 74 Resp: 15911
Ion Ratio Lower Upper
74 100
45 105.3 51.5 154.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.984 ug/l

RT: 2.312 min Scan# 201

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

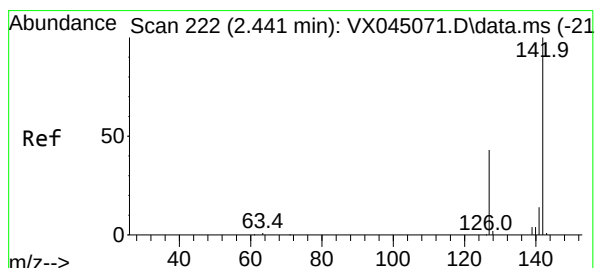
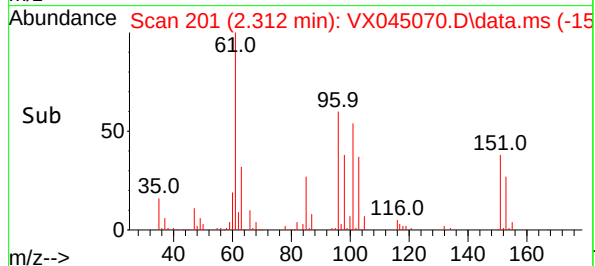
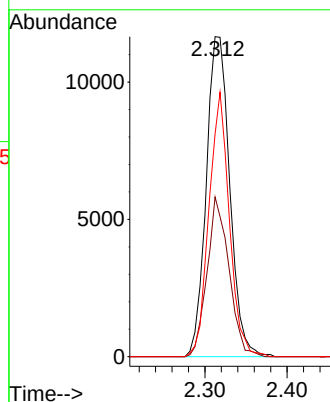
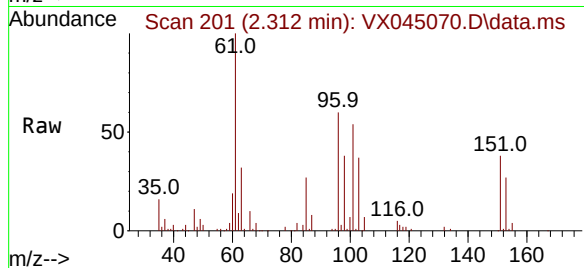
Tgt Ion:101	Resp:	23154
Ion Ratio	Lower	Upper
101	100	
85	46.5	36.2 54.4
151	71.8	56.4 84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#10

Methyl Iodide

Concen: 18.867 ug/l

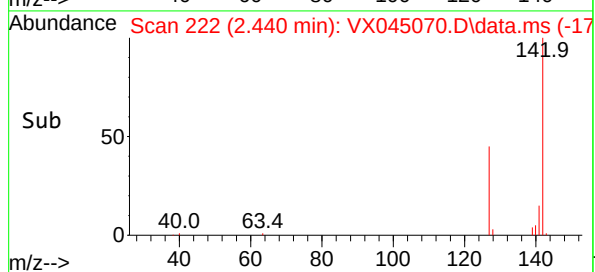
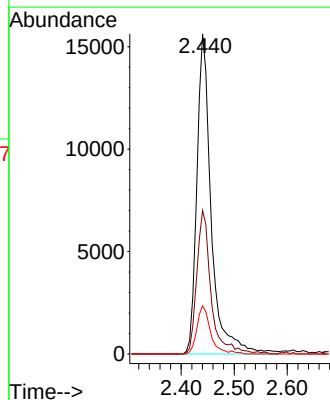
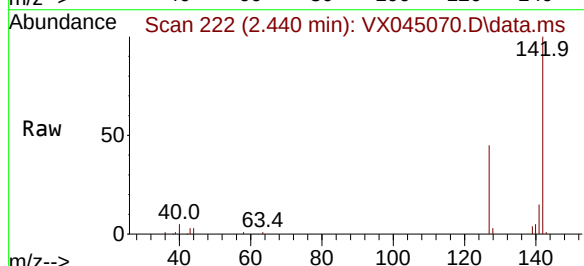
RT: 2.440 min Scan# 222

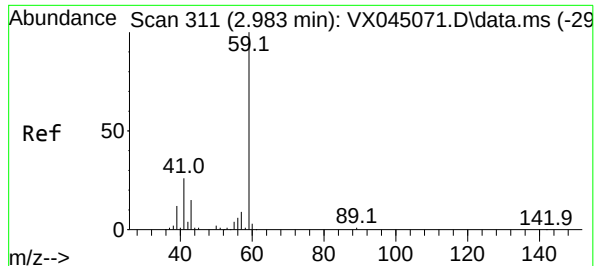
Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Tgt Ion:142	Resp:	29500
Ion Ratio	Lower	Upper
142	100	
127	44.2	35.4 53.2
141	14.3	11.6 17.4





#11

Tert butyl alcohol

Concen: 118.627 ug/l

RT: 2.983 min Scan# 311

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 59 Resp: 31240

Ion Ratio Lower Upper

59 100

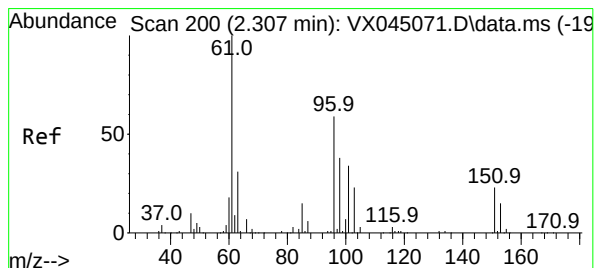
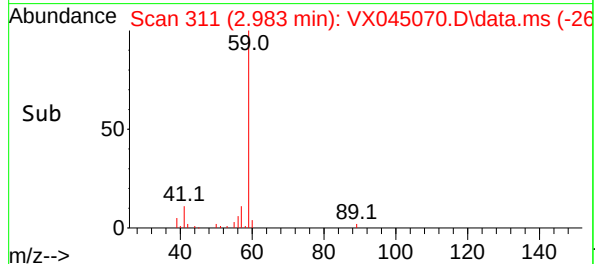
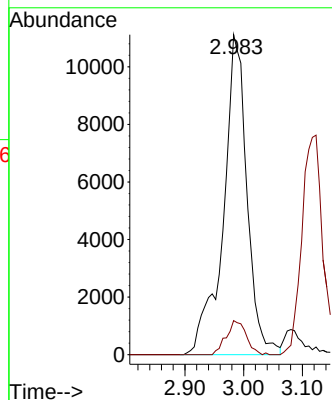
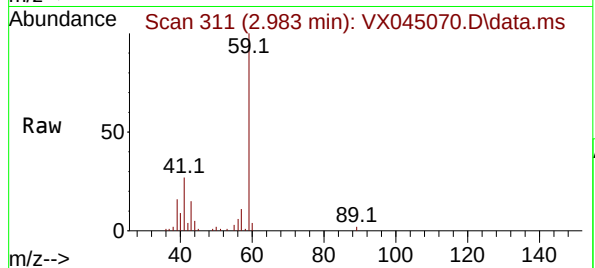
57 8.9 7.8 11.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#12

1,1-Dichloroethene

Concen: 19.014 ug/l

RT: 2.306 min Scan# 200

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

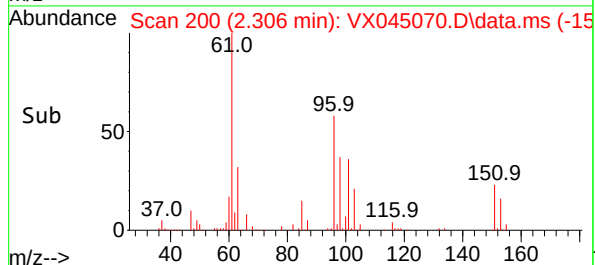
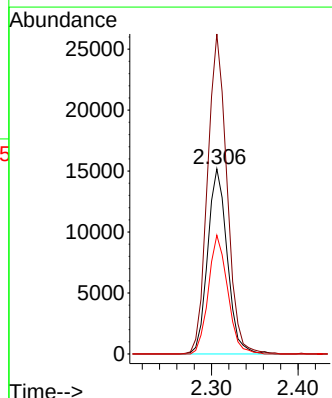
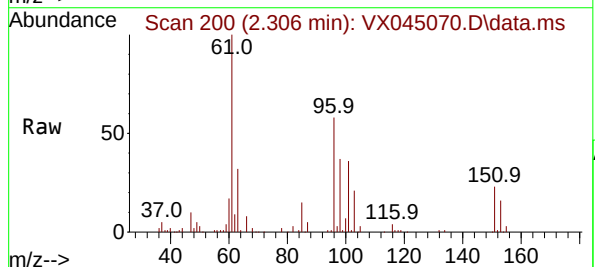
Tgt Ion: 96 Resp: 23810

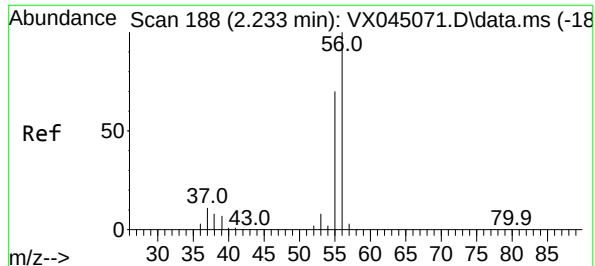
Ion Ratio Lower Upper

96 100

61 172.8 134.6 202.0

98 64.1 51.0 76.6





#13

Acrolein

Concen: 117.747 ug/l

RT: 2.239 min Scan# 188

Delta R.T. 0.006 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 56 Resp: 33580

Ion Ratio Lower Upper

56 100

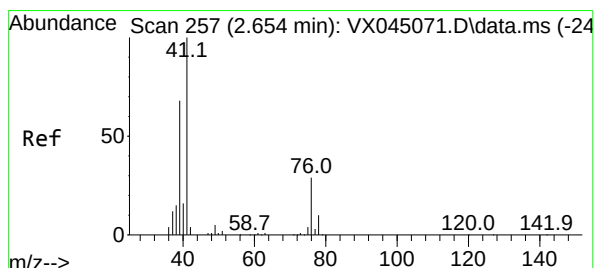
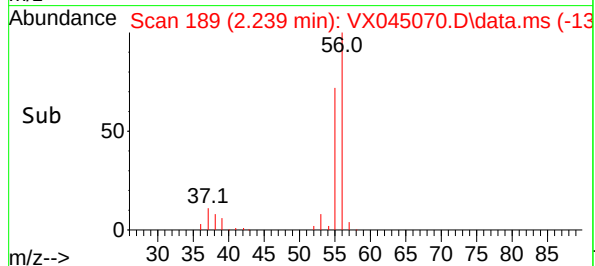
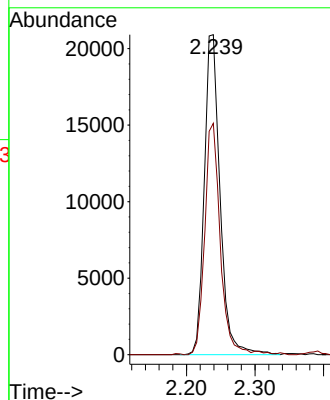
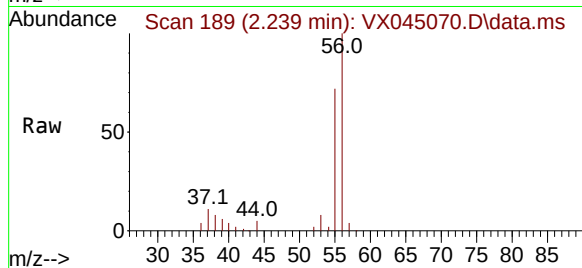
55 71.4 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#14

Allyl chloride

Concen: 19.096 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

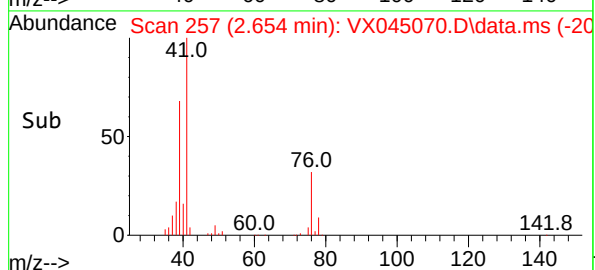
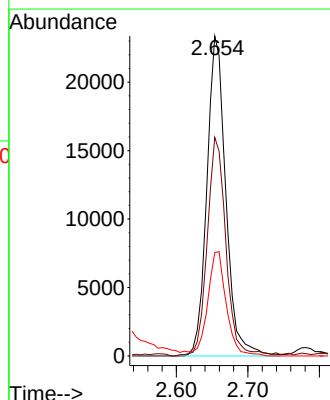
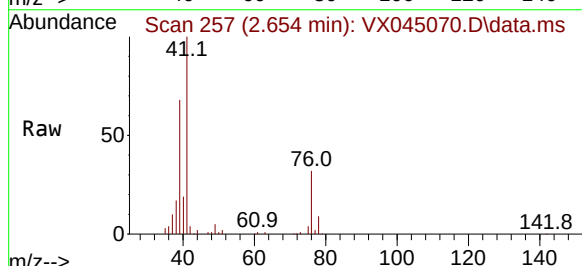
Tgt Ion: 41 Resp: 42993

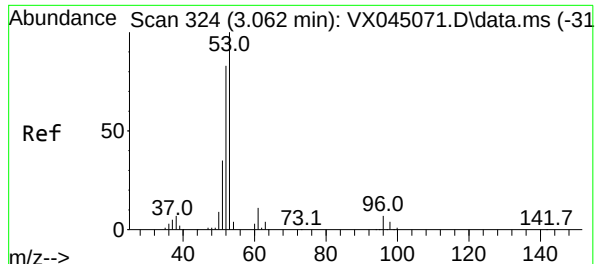
Ion Ratio Lower Upper

41 100

39 67.4 53.8 80.8

76 32.1 25.2 37.8





#15

Acrylonitrile

Concen: 117.598 ug/l

RT: 3.068 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 53 Resp: 8418

Ion Ratio Lower Upper

53 100

52 82.8 66.2 99.2

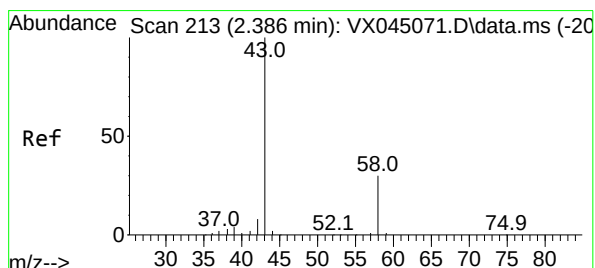
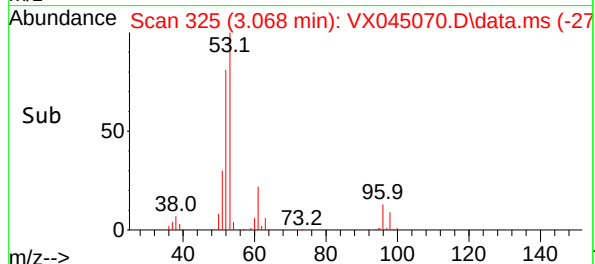
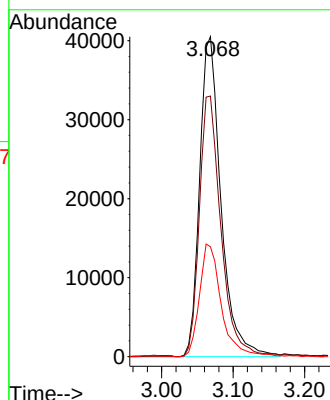
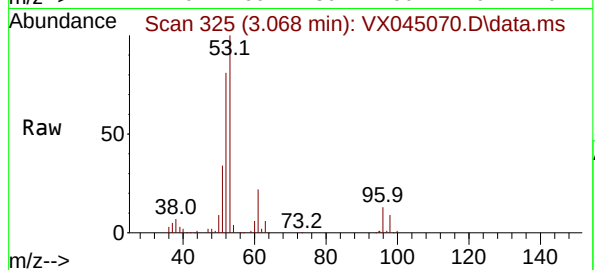
51 36.0 29.0 43.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#16

Acetone

Concen: 126.257 ug/l

RT: 2.385 min Scan# 213

Delta R.T. -0.000 min

Lab File: VX045070.D

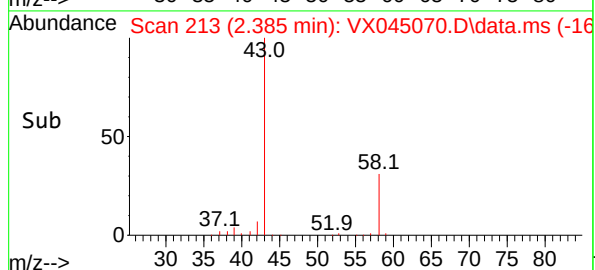
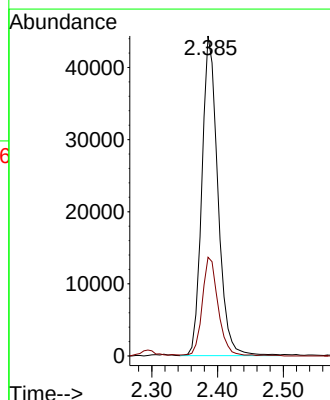
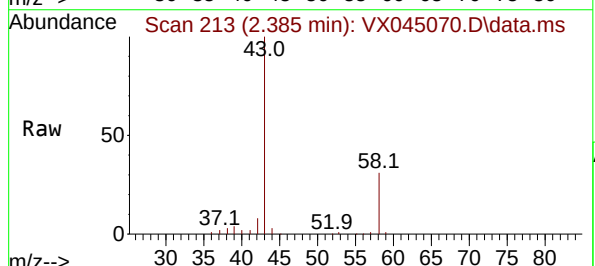
Acq: 28 Feb 2025 02:37

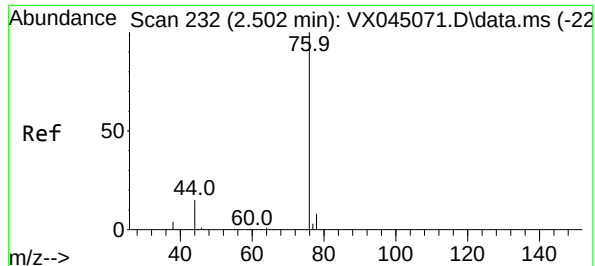
Tgt Ion: 43 Resp: 74701

Ion Ratio Lower Upper

43 100

58 30.7 24.2 36.4





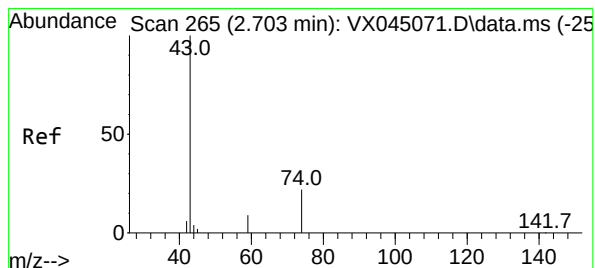
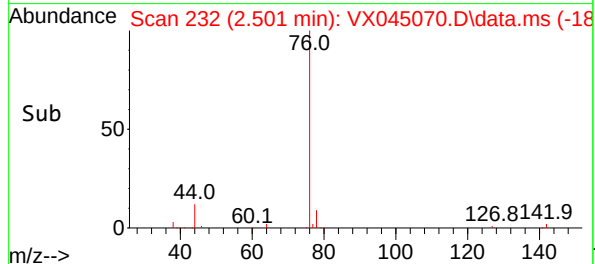
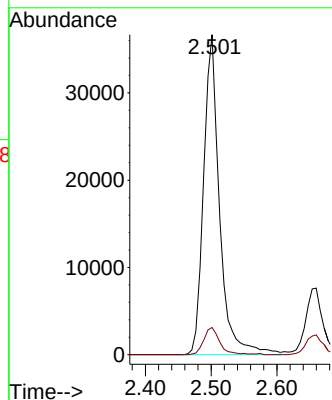
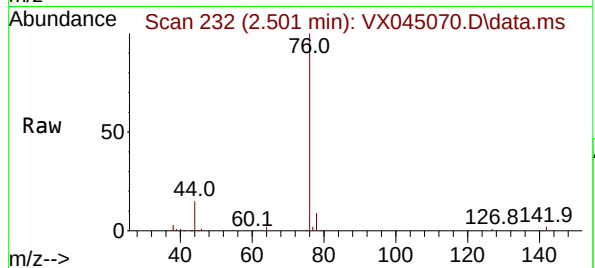
#17
Carbon Disulfide
Concen: 18.139 ug/l
RT: 2.501 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 61802
Ion Ratio Lower Upper
76 100
78 8.5 6.6 9.8

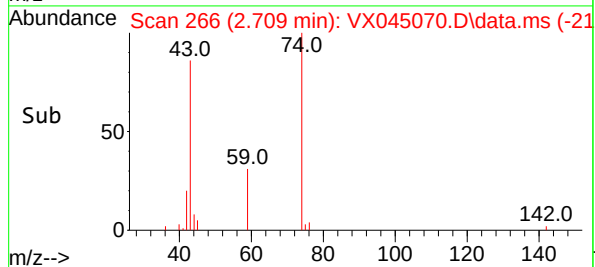
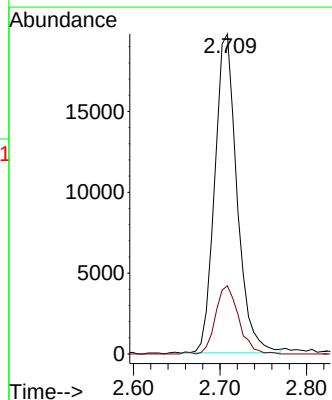
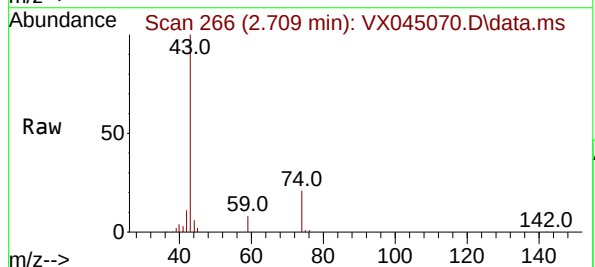
Manual Integrations
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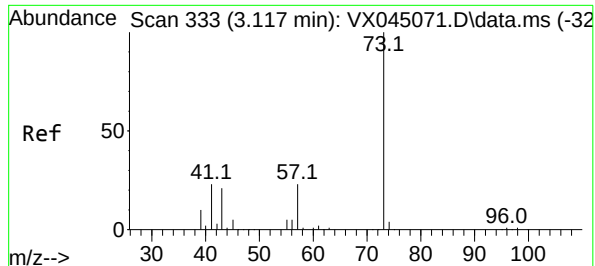
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#18
Methyl Acetate
Concen: 19.729 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 43 Resp: 35157
Ion Ratio Lower Upper
43 100
74 22.2 17.4 26.2





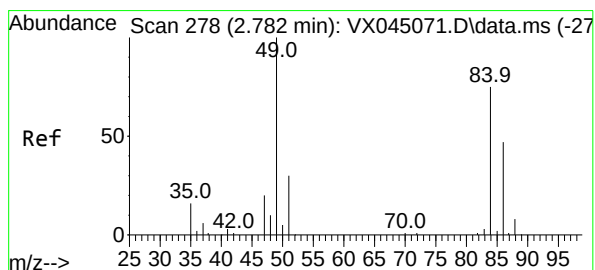
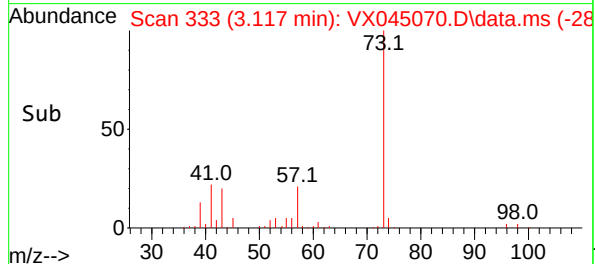
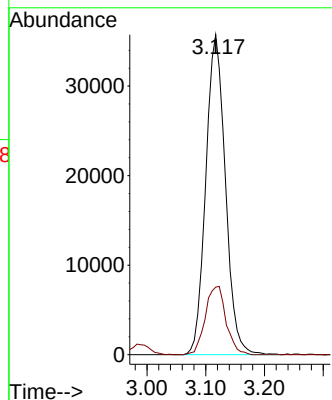
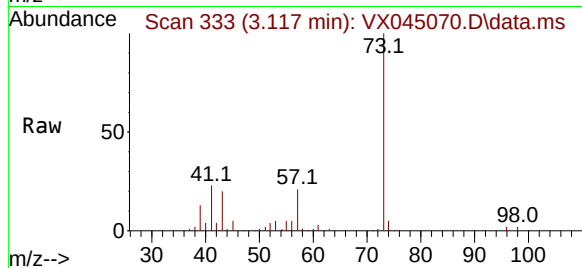
#19
Methyl tert-butyl Ether
Concen: 20.689 ug/l
RT: 3.117 min Scan# 311
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 8283
Ion Ratio Lower Upper
73 100
57 21.1 18.5 27.7

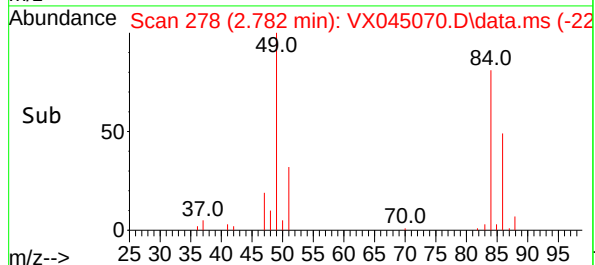
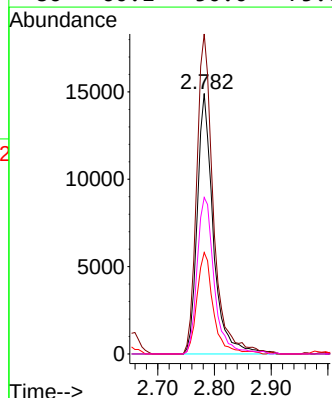
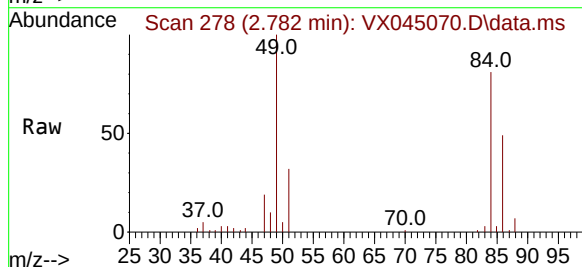
Manual Integrations
APPROVED

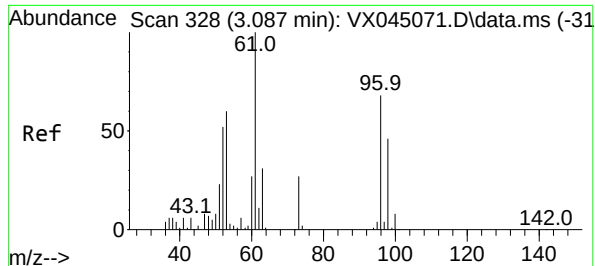
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#20
Methylene Chloride
Concen: 20.895 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

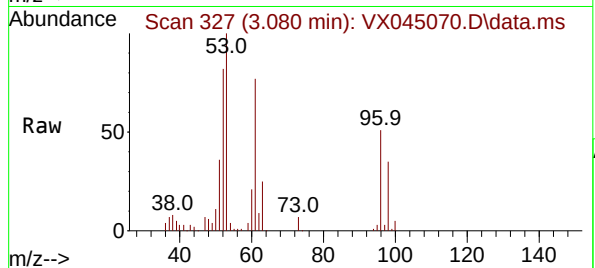
Tgt Ion: 84 Resp: 29281
Ion Ratio Lower Upper
84 100
49 122.9 106.5 159.7
51 38.9 32.1 48.1
86 60.1 50.0 75.0





#21
trans-1,2-Dichloroethene
Concen: 19.057 ug/l
RT: 3.080 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

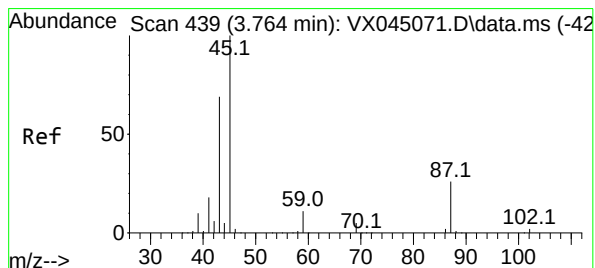
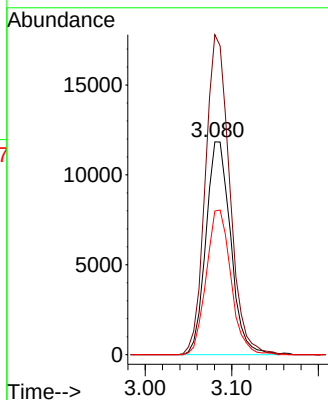
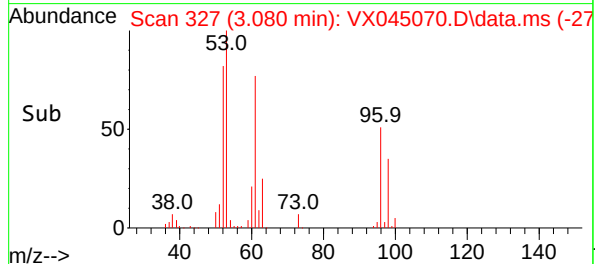
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 96 Resp: 2347
Ion Ratio Lower Upper
96 100
61 150.3 117.0 175.4
98 67.5 53.4 80.2

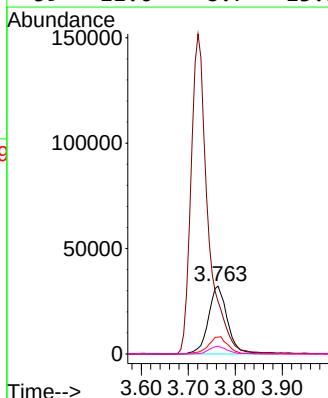
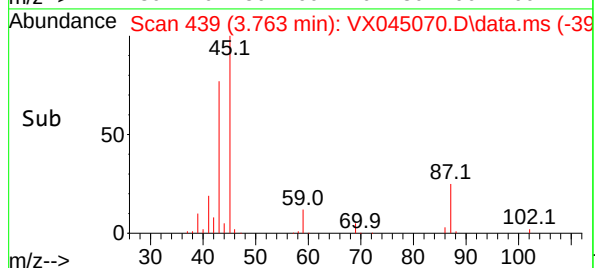
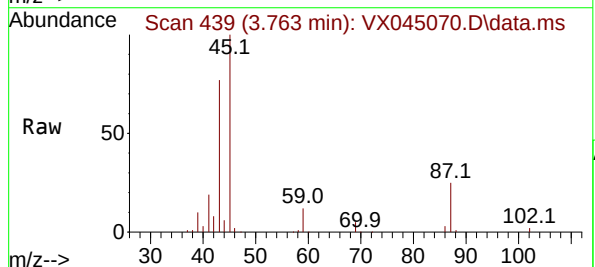
Manual Integrations
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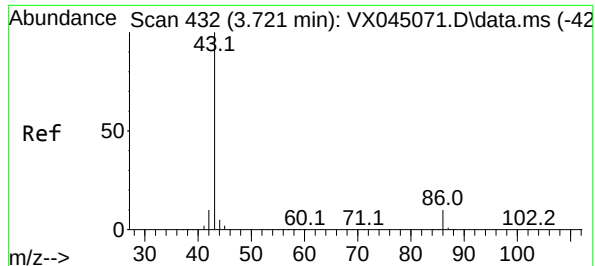
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#22
Diisopropyl ether
Concen: 20.995 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

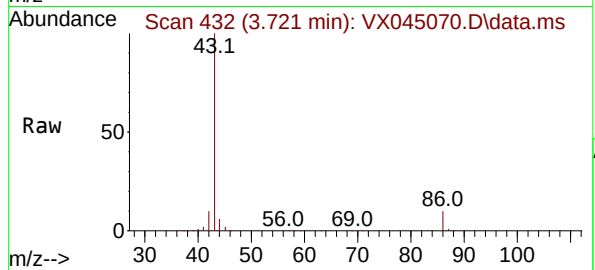
Tgt Ion: 45 Resp: 90378
Ion Ratio Lower Upper
45 100
43 76.4 54.9 82.3
87 24.7 21.0 31.4
59 11.6 8.7 13.1





#23
Vinyl Acetate
Concen: 108.038 ug/l
RT: 3.721 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

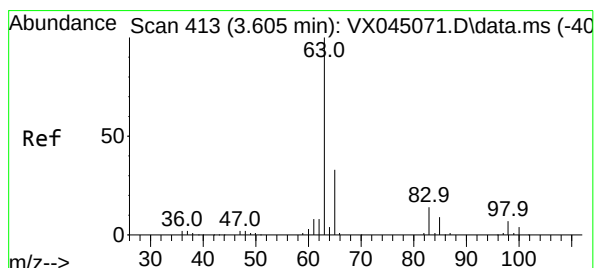
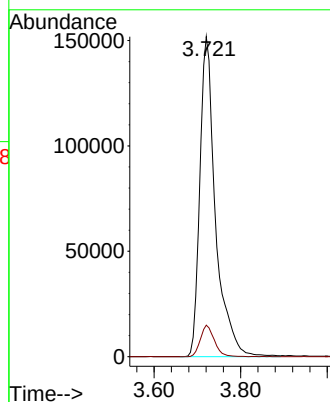
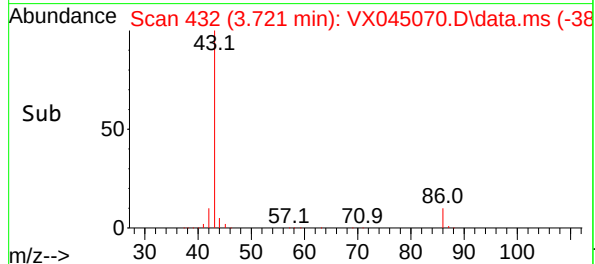
Instrument :
MSVOA_X
Client Sample Id :
VSTDICC020



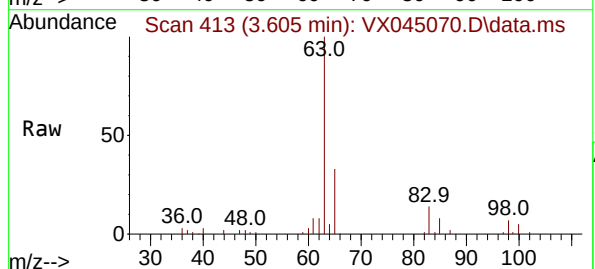
Tgt Ion: 43 Resp: 381808
Ion Ratio Lower Upper
43 100
86 9.9 8.1 12.1

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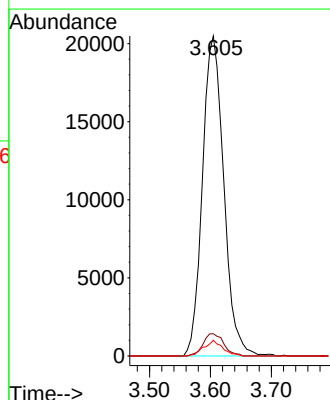
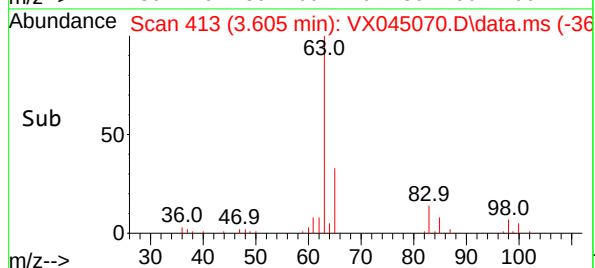
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

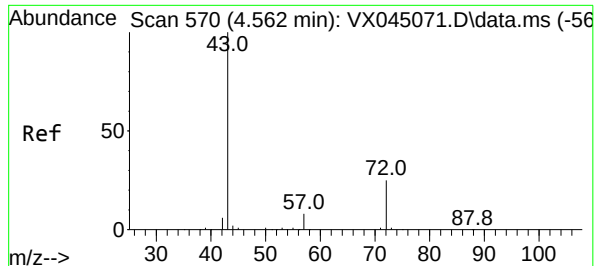


#24
1,1-Dichloroethane
Concen: 20.716 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37



Tgt Ion: 63 Resp: 49826
Ion Ratio Lower Upper
63 100
98 7.0 3.4 10.2
100 4.9 2.1 6.5





#25

2-Butanone

Concen: 124.449 ug/l

RT: 4.562 min Scan# 51

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 11871

Ion Ratio Lower Upper

43 100

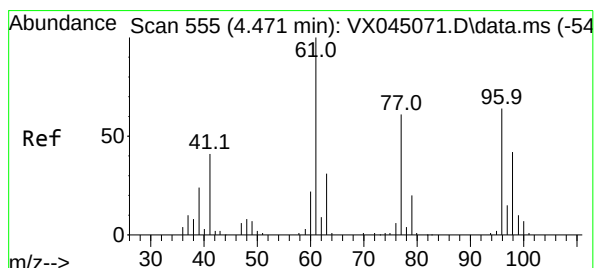
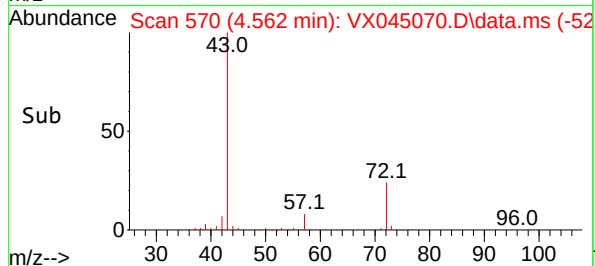
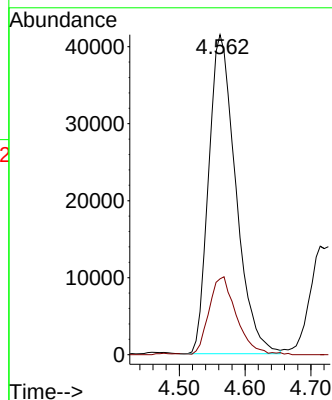
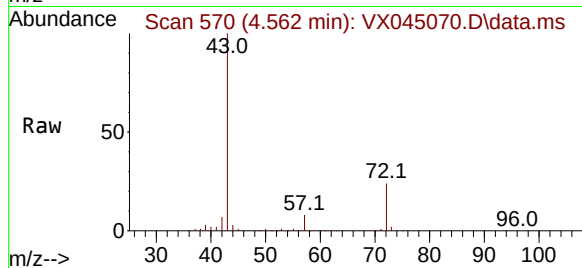
72 23.5 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#26

2,2-Dichloropropane

Concen: 12.799 ug/l

RT: 4.470 min Scan# 555

Delta R.T. -0.000 min

Lab File: VX045070.D

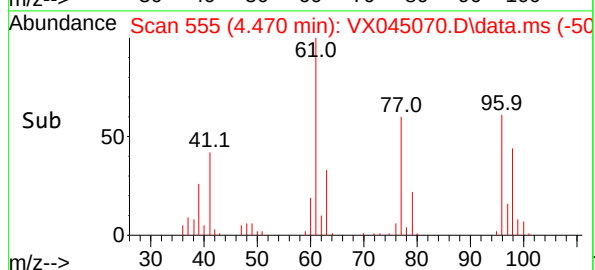
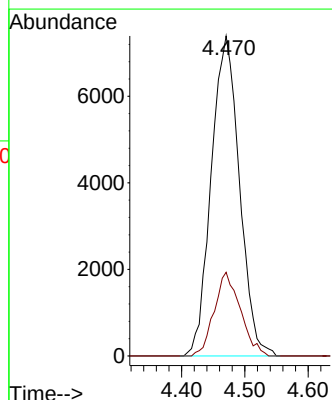
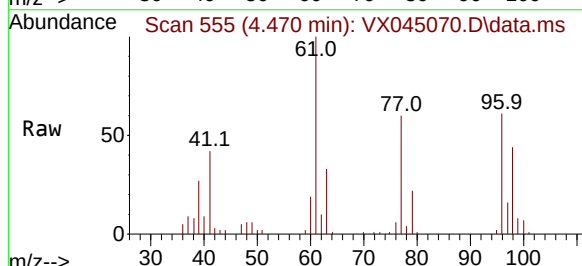
Acq: 28 Feb 2025 02:37

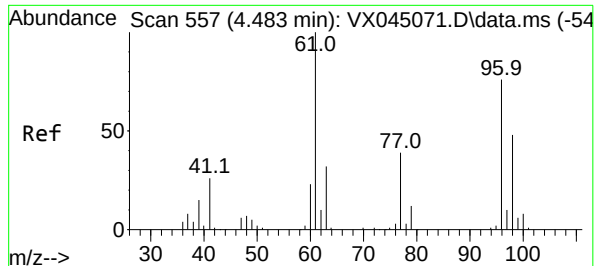
Tgt Ion: 77 Resp: 22886

Ion Ratio Lower Upper

77 100

97 24.2 12.4 37.0





#27

cis-1,2-Dichloroethene

Concen: 20.065 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 96 Resp: 2978

Ion Ratio Lower Upper

96 100

61 142.7 0.0 283.2

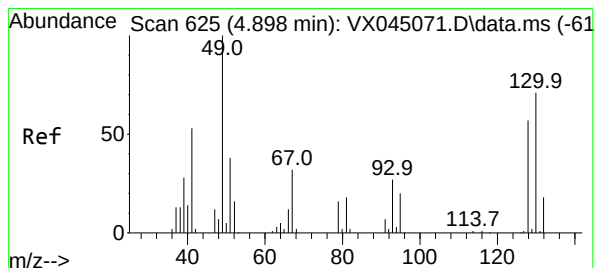
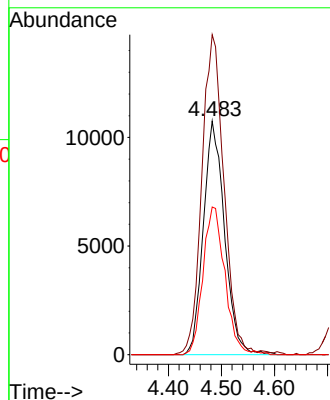
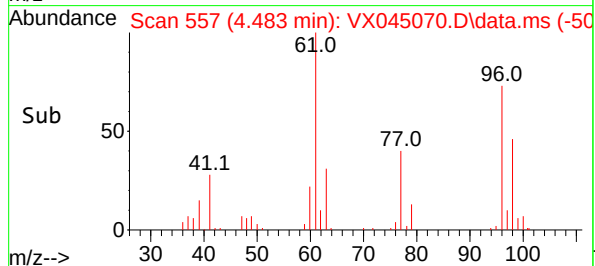
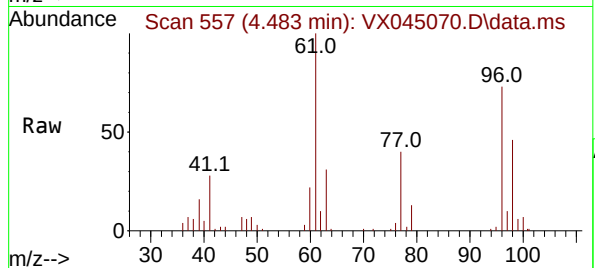
98 65.6 0.0 128.0

Manual Integrations

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Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#28

Bromochloromethane

Concen: 20.579 ug/l

RT: 4.891 min Scan# 624

Delta R.T. -0.006 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

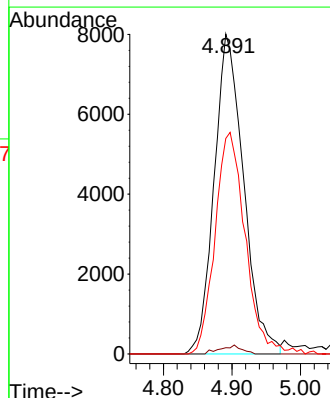
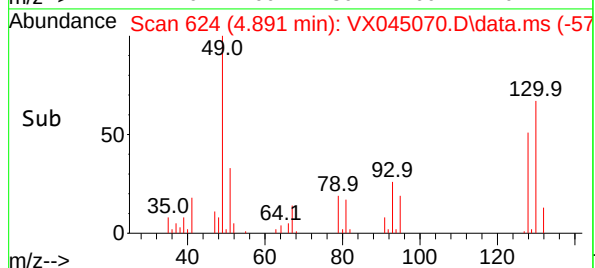
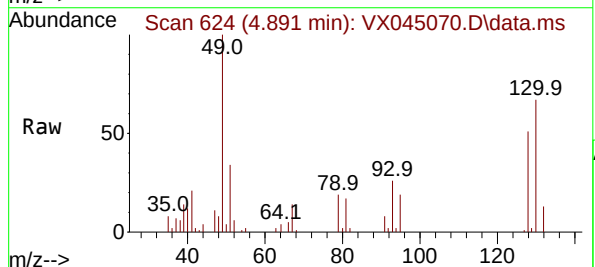
Tgt Ion: 49 Resp: 23869

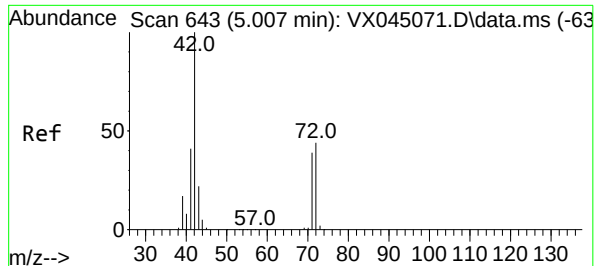
Ion Ratio Lower Upper

49 100

129 2.0 0.0 3.4

130 70.6 56.1 84.1





#29

Tetrahydrofuran

Concen: 122.519 ug/l

RT: 5.007 min Scan# 643

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 42 Resp: 7743

Ion Ratio Lower Upper

42 100

72 41.0 34.1 51.1

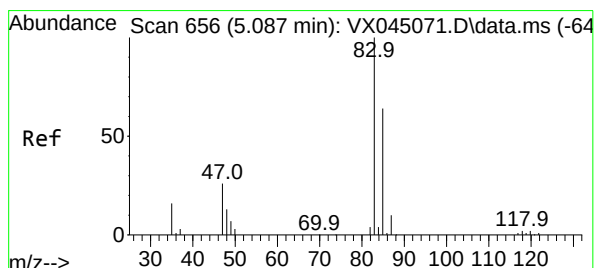
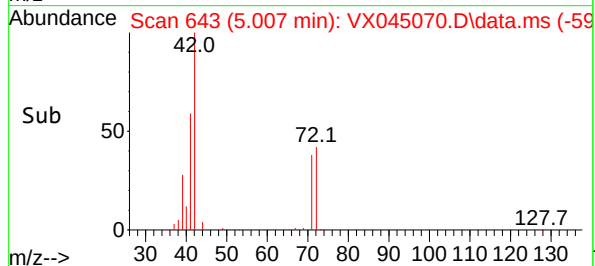
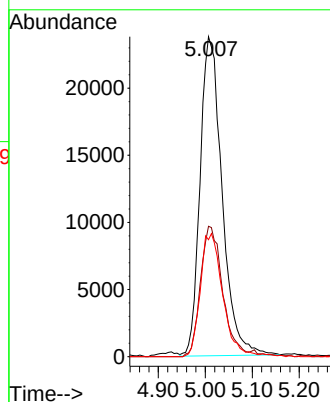
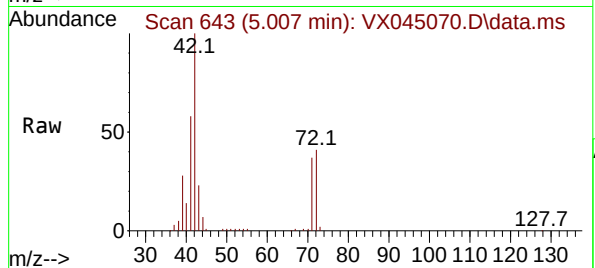
71 39.0 31.4 47.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#30

Chloroform

Concen: 21.147 ug/l

RT: 5.086 min Scan# 656

Delta R.T. -0.000 min

Lab File: VX045070.D

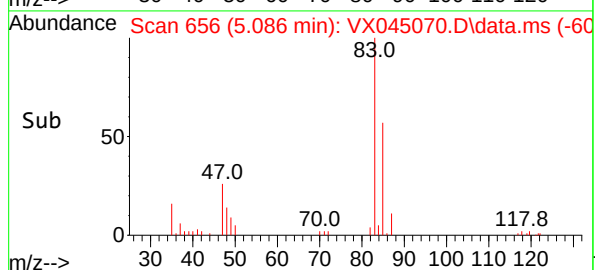
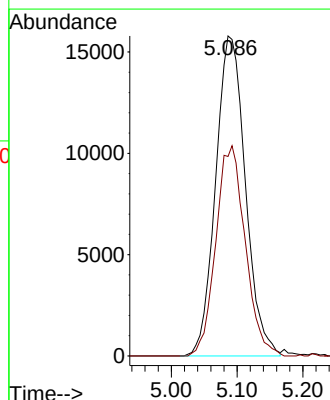
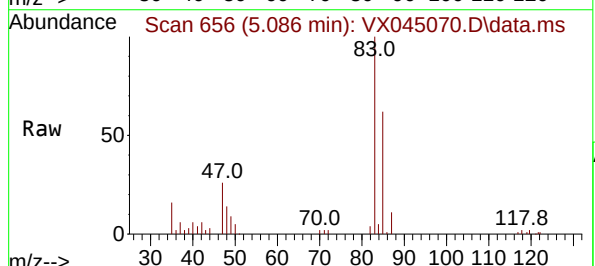
Acq: 28 Feb 2025 02:37

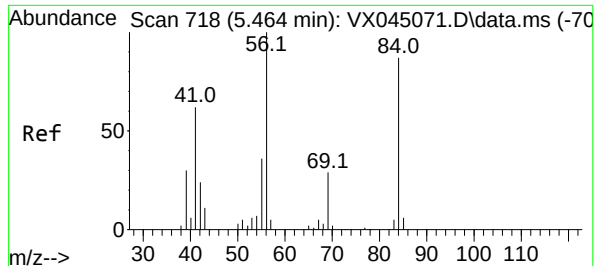
Tgt Ion: 83 Resp: 49751

Ion Ratio Lower Upper

83 100

85 62.3 51.4 77.2





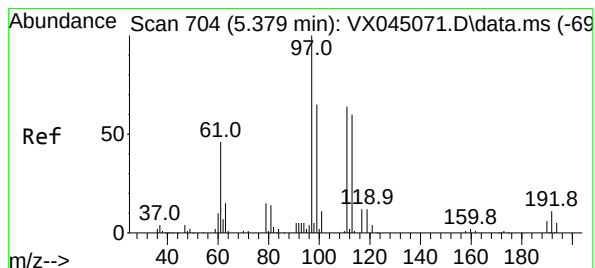
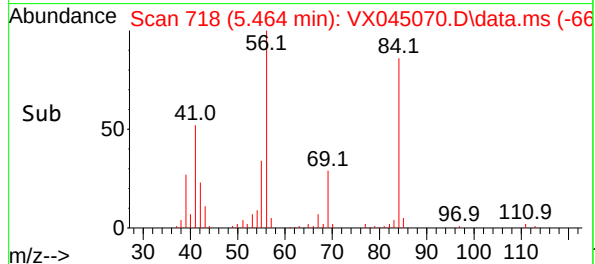
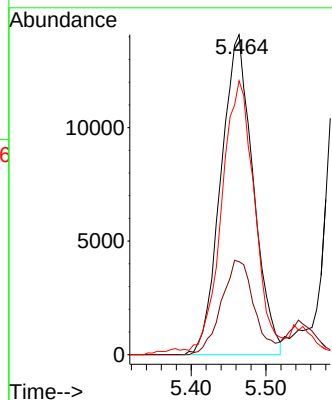
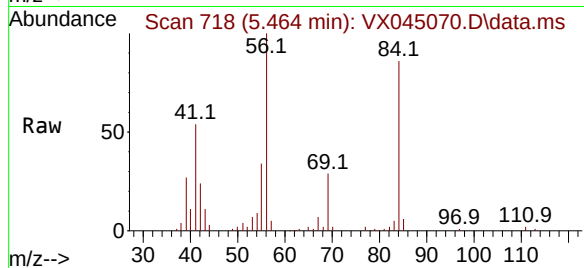
#31
Cyclohexane
Concen: 19.181 ug/l
RT: 5.464 min Scan# 718
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tgt Ion: 56 Resp: 42340
Ion Ratio Lower Upper
56 100
69 29.0 23.4 35.2
84 84.2 69.4 104.2

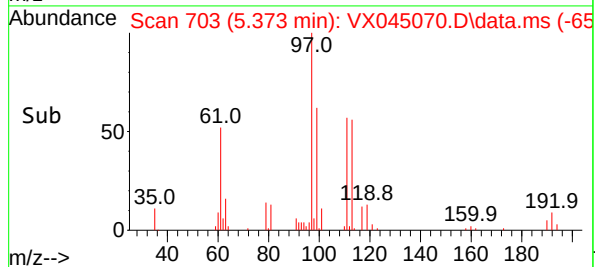
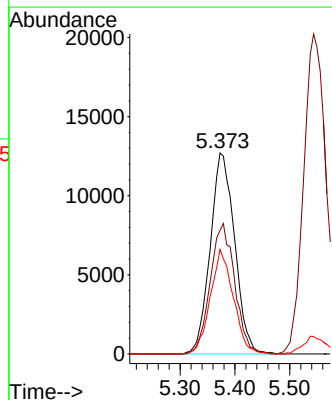
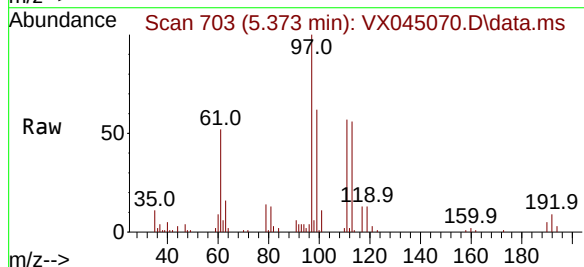
Manual Integrations
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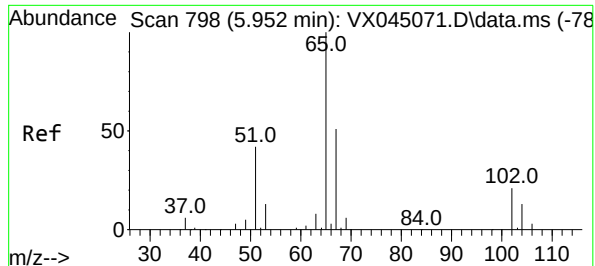
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#32
1,1,1-Trichloroethane
Concen: 19.831 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 97 Resp: 39276
Ion Ratio Lower Upper
97 100
99 65.2 51.6 77.4
61 48.9 38.4 57.6





#33

1,2-Dichloroethane-d4

Concen: 21.221 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 65 Resp: 30514

Ion Ratio Lower Upper

65 100

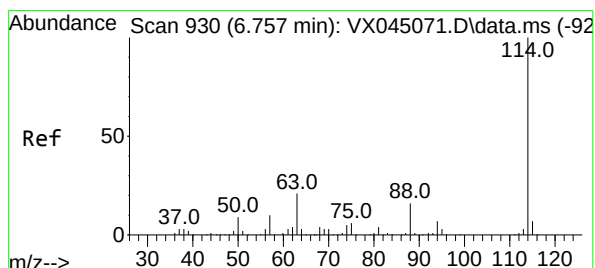
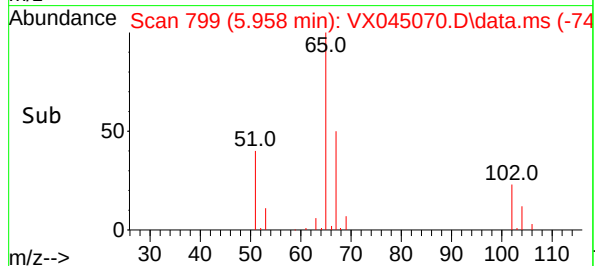
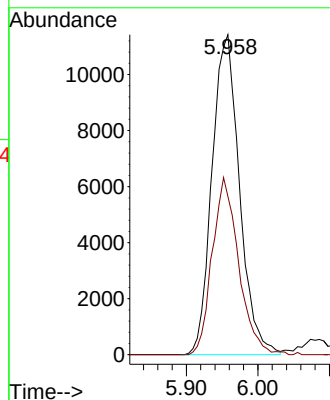
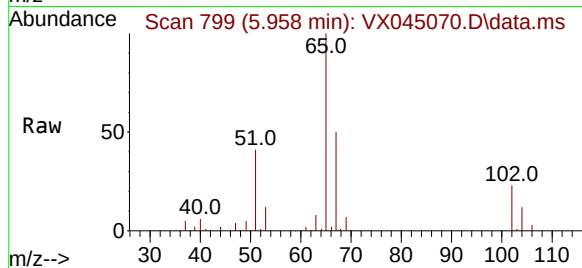
67 53.2 0.0 106.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

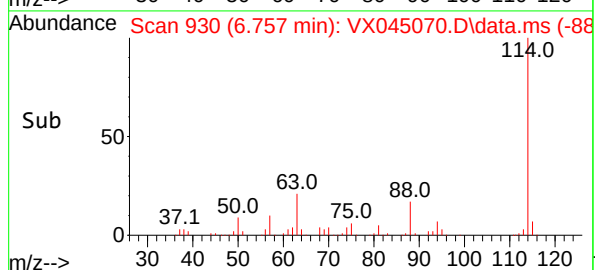
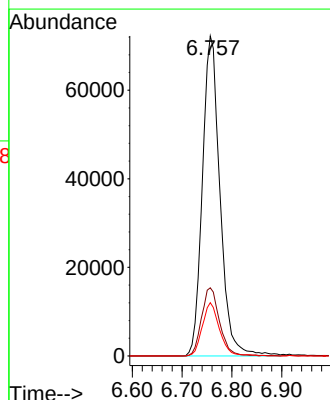
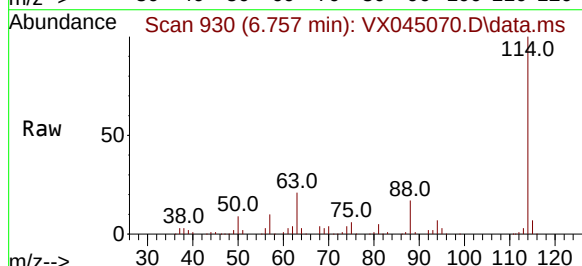
Tgt Ion:114 Resp: 177403

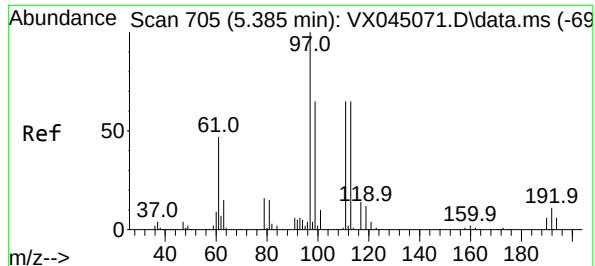
Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.8

88 16.6 0.0 32.8





#35

Dibromofluoromethane

Concen: 20.473 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:113 Resp: 23739

Ion Ratio Lower Upper

113 100

111 102.7 81.8 122.6

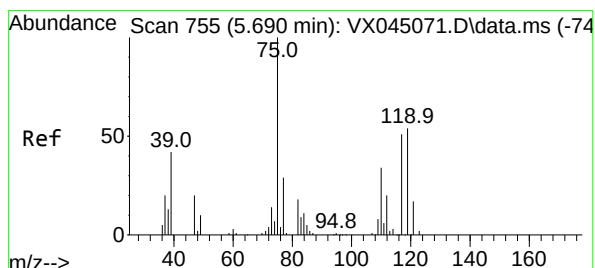
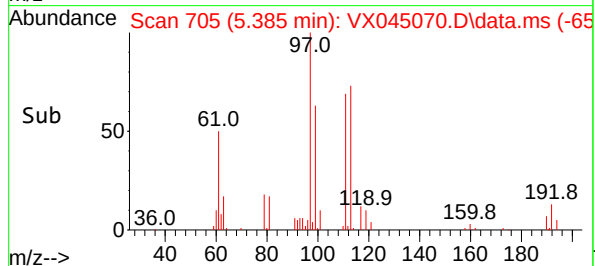
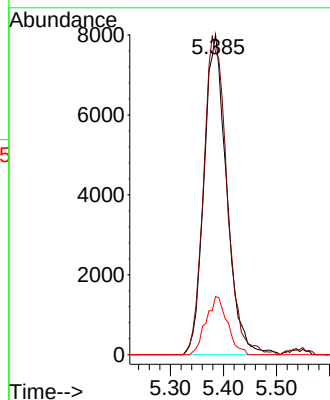
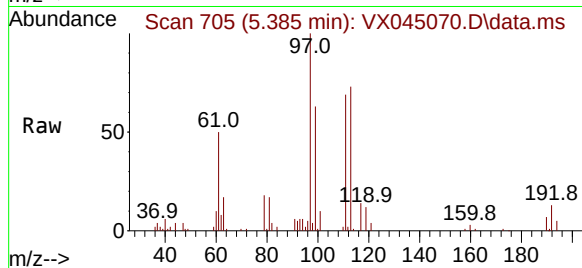
192 17.2 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#36

1,1-Dichloropropene

Concen: 18.903 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

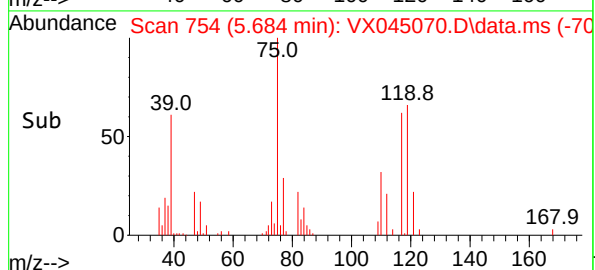
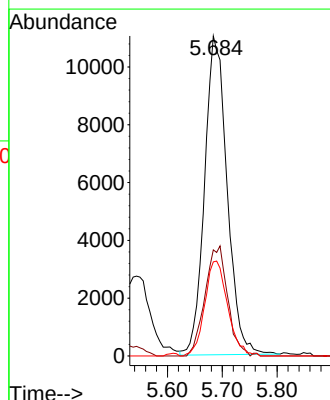
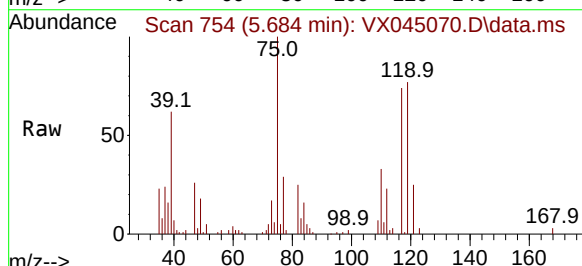
Tgt Ion: 75 Resp: 31519

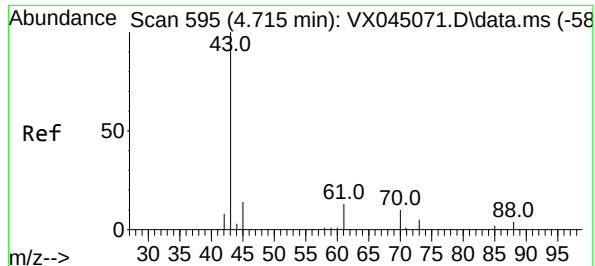
Ion Ratio Lower Upper

75 100

110 34.4 16.9 50.6

77 30.3 24.5 36.7





#37

Ethyl Acetate

Concen: 22.714 ug/l

RT: 4.714 min Scan# 595

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

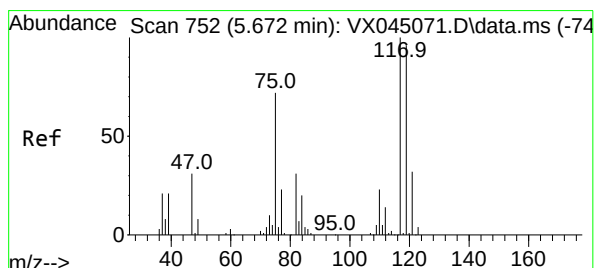
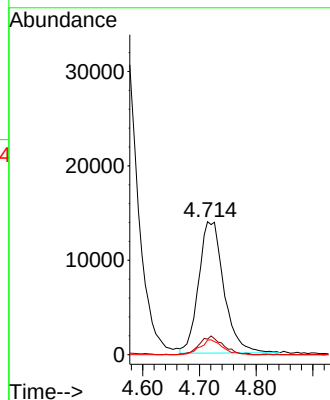
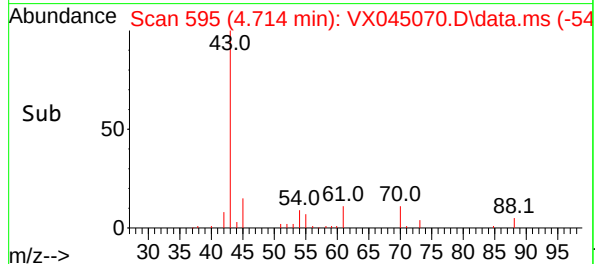
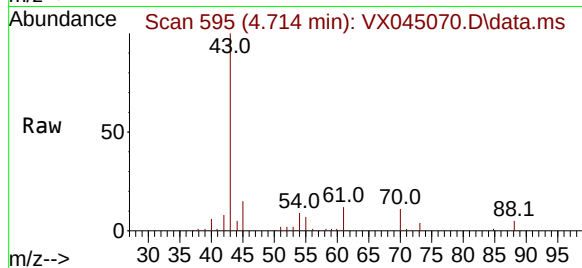
Tgt Ion:	43	Resp:	4309
Ion	Ratio	Lower	Upper
43	100		
61	13.4	10.8	16.2
70	10.1	7.7	11.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#38

Carbon Tetrachloride

Concen: 19.334 ug/l

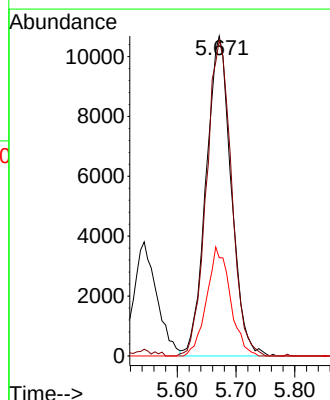
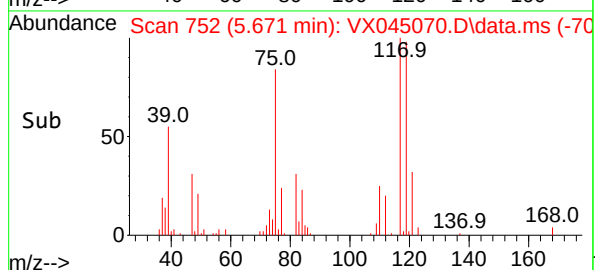
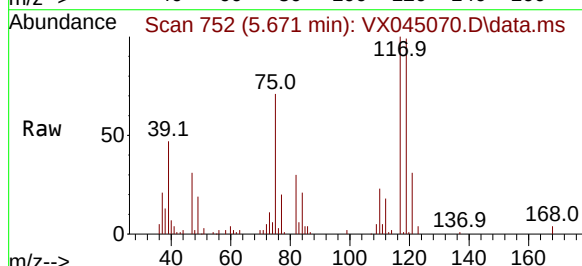
RT: 5.671 min Scan# 752

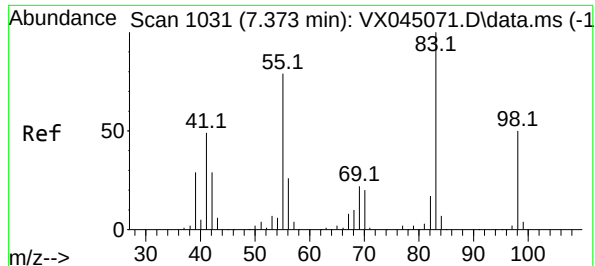
Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Tgt Ion:	117	Resp:	31694
Ion	Ratio	Lower	Upper
117	100		
119	98.7	76.7	115.1
121	30.7	25.5	38.3





#39

Methylcyclohexane

Concen: 18.676 ug/l

RT: 7.372 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 83 Resp: 39769

Ion Ratio Lower Upper

83 100

55 74.6 63.0 94.4

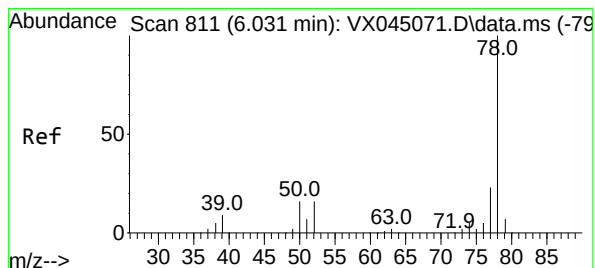
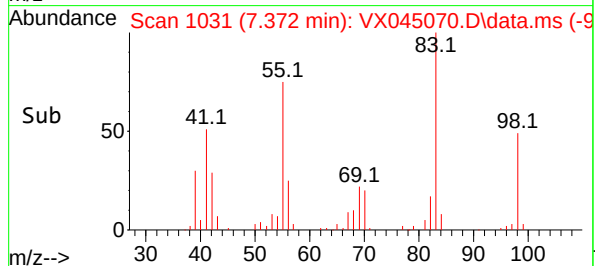
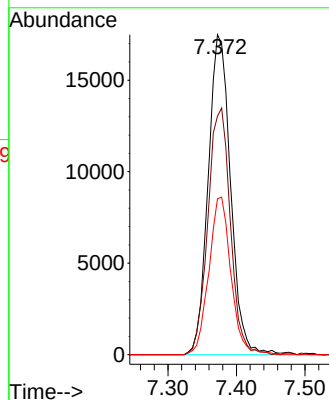
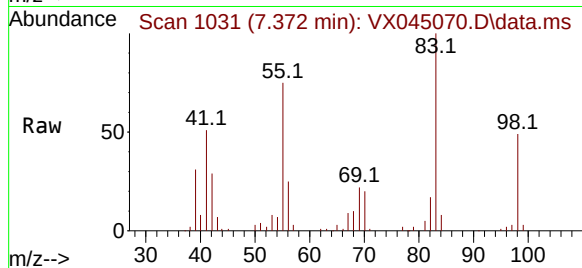
98 48.7 39.7 59.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#40

Benzene

Concen: 20.298 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX045070.D

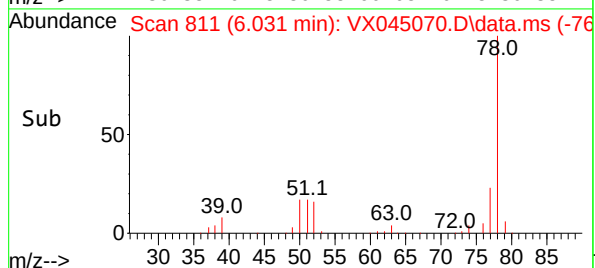
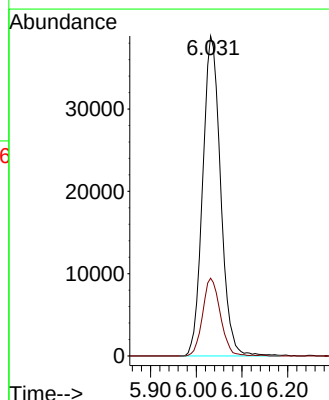
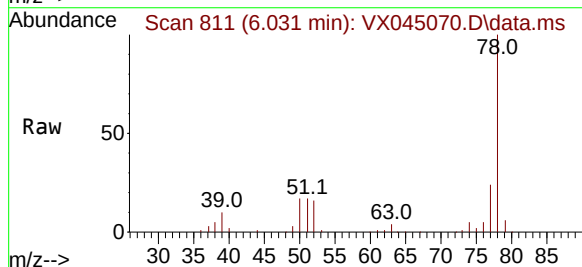
Acq: 28 Feb 2025 02:37

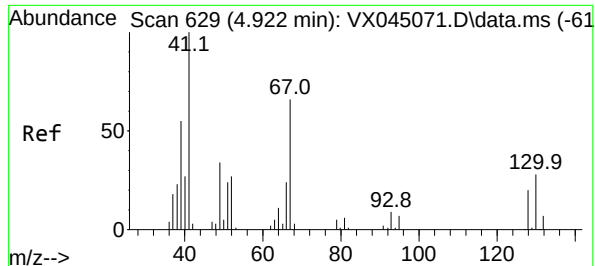
Tgt Ion: 78 Resp: 105787

Ion Ratio Lower Upper

78 100

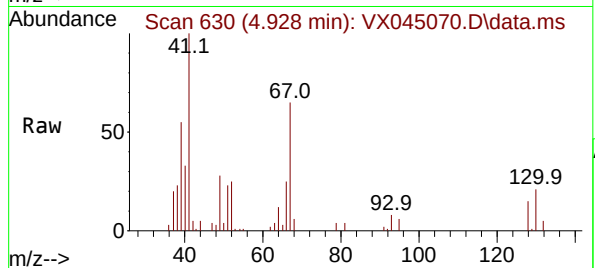
77 24.3 18.8 28.2





#41
Methacrylonitrile
Concen: 23.605 ug/l
RT: 4.928 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

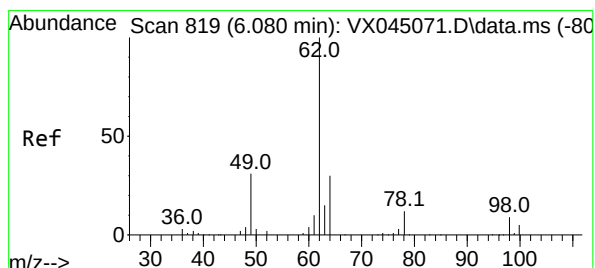
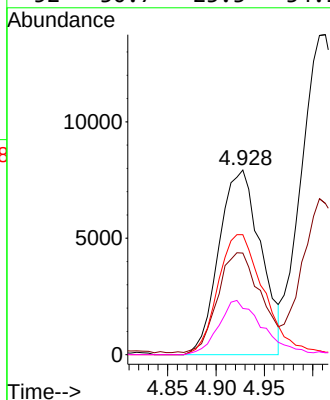
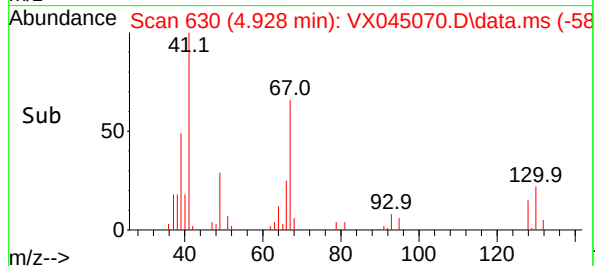
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion: 41 Resp: 23924
Ion Ratio Lower Upper
41 100
39 55.3 44.6 67.0
67 71.6 53.9 80.9
52 30.7 23.3 34.9

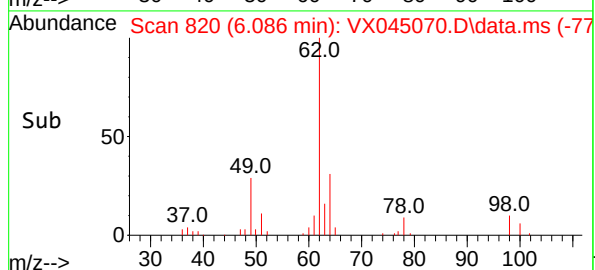
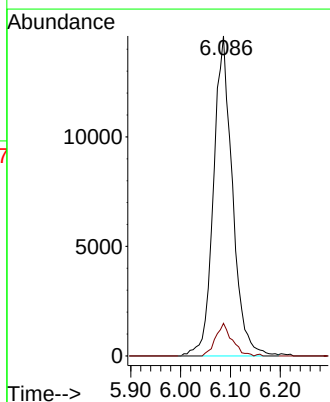
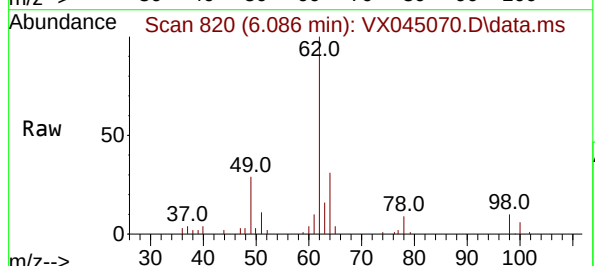
Manual Integrations
APPROVED

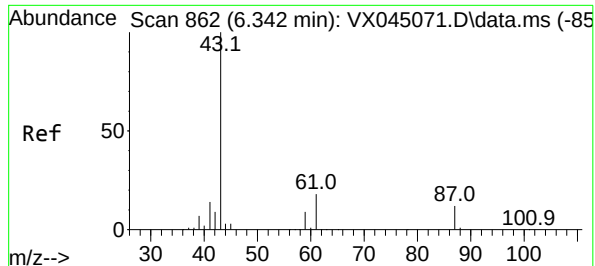
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#42
1,2-Dichloroethane
Concen: 22.886 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 62 Resp: 38653
Ion Ratio Lower Upper
62 100
98 8.8 0.0 18.2





#43

Isopropyl Acetate

Concen: 22.094 ug/l

RT: 6.348 min Scan# 863

Delta R.T. 0.006 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

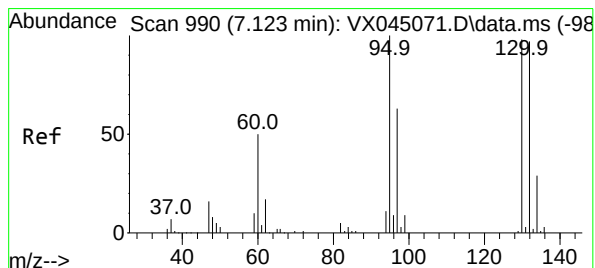
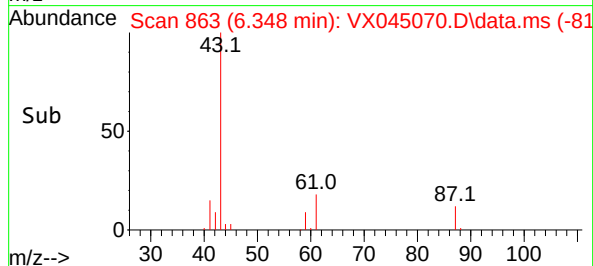
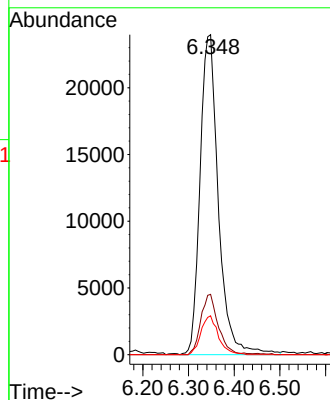
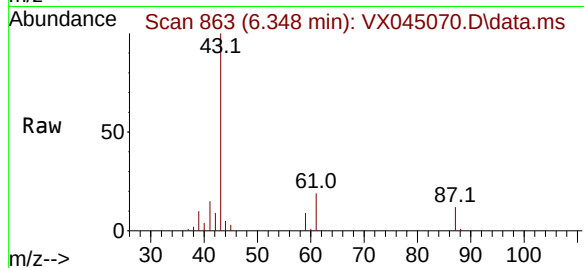
Tgt Ion:	43	Resp:	6672
Ion	Ratio	Lower	Upper
43	100		
61	17.8	14.9	22.3
87	11.5	9.4	14.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#44

Trichloroethene

Concen: 20.191 ug/l

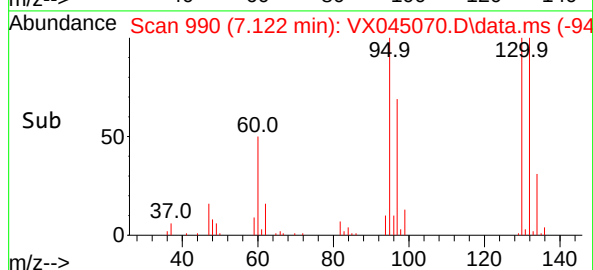
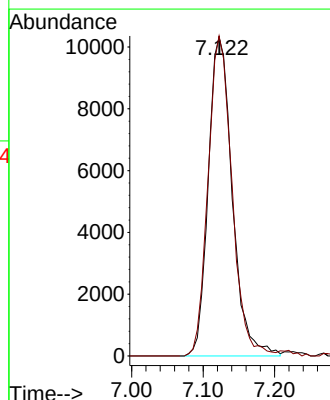
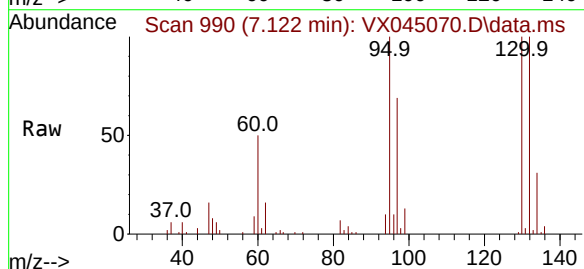
RT: 7.122 min Scan# 990

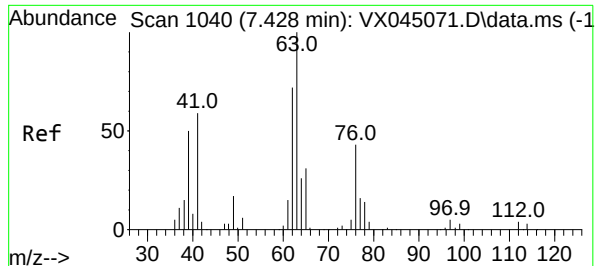
Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Tgt Ion:	130	Resp:	24052
Ion	Ratio	Lower	Upper
130	100		
95	100.3	0.0	205.0





#45

1,2-Dichloropropane

Concen: 20.945 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 27128

Ion Ratio Lower Upper

63 100

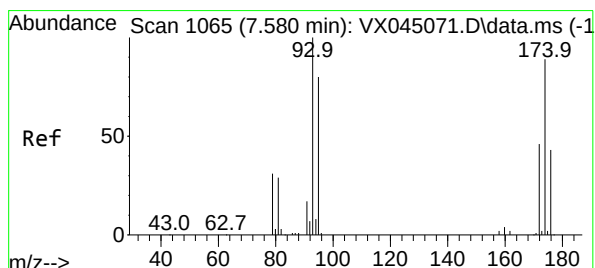
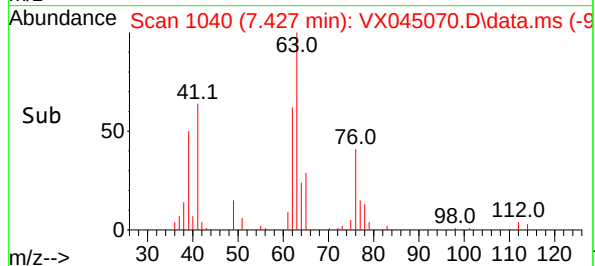
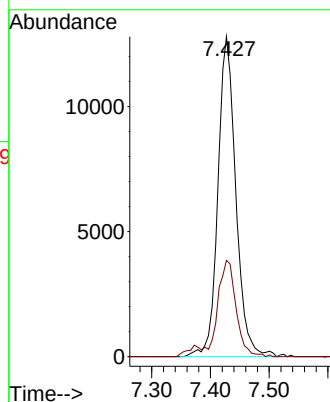
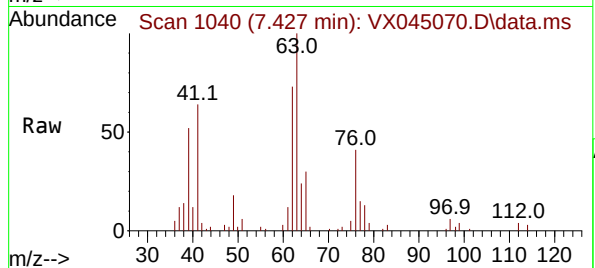
65 30.1 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#46

Dibromomethane

Concen: 21.357 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

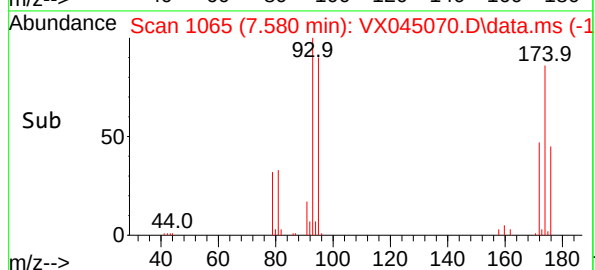
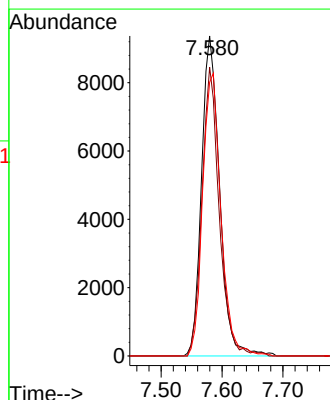
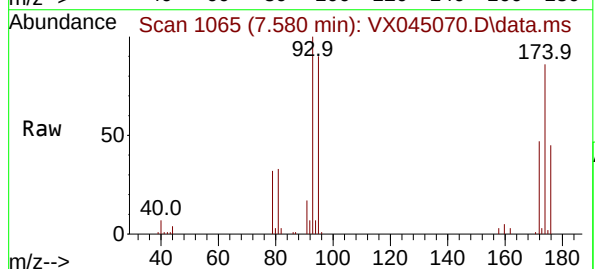
Tgt Ion: 93 Resp: 19323

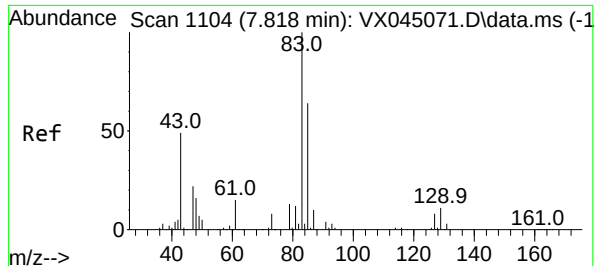
Ion Ratio Lower Upper

93 100

95 86.4 65.8 98.8

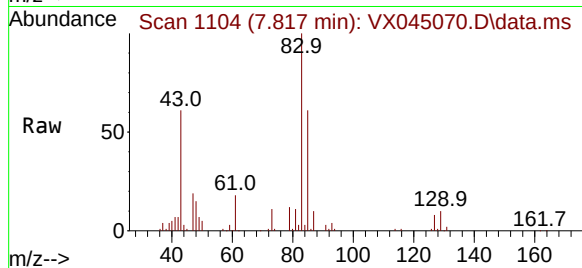
174 89.6 72.2 108.2





#47
Bromodichloromethane
Concen: 21.732 ug/l
RT: 7.817 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

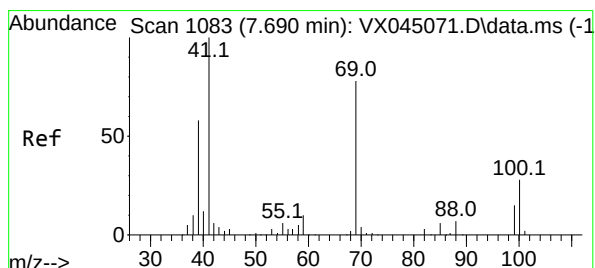
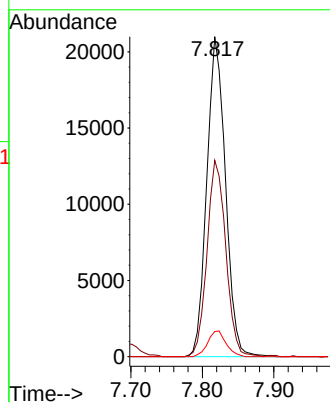
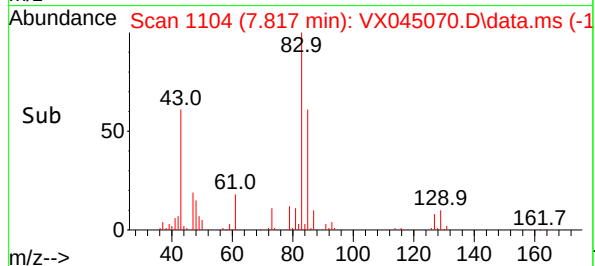
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 83 Resp: 38038
Ion Ratio Lower Upper
83 100
85 61.3 51.1 76.7
127 7.8 6.4 9.6

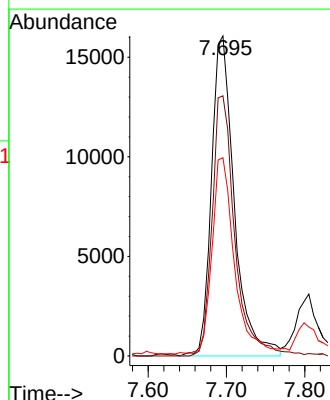
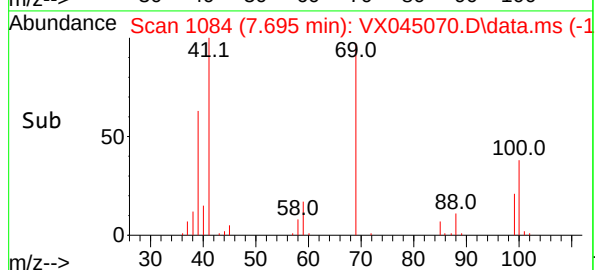
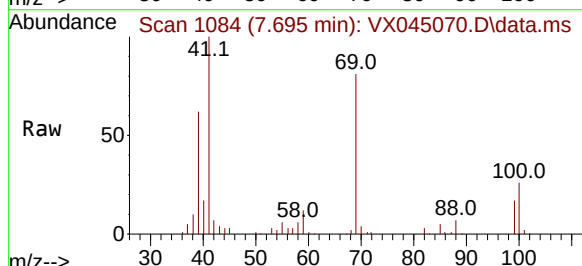
Manual Integrations
APPROVED

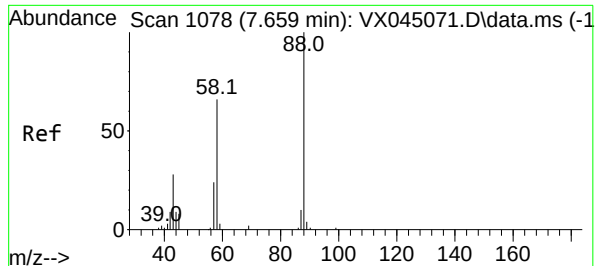
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#48
Methyl methacrylate
Concen: 22.757 ug/l
RT: 7.695 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 41 Resp: 32627
Ion Ratio Lower Upper
41 100
69 81.2 63.0 94.6
39 59.8 47.5 71.3





#49

1,4-Dioxane

Concen: 479.170 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. 0.006 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 88 Resp: 14602

Ion Ratio Lower Upper

88 100

43 38.7 28.7 43.1

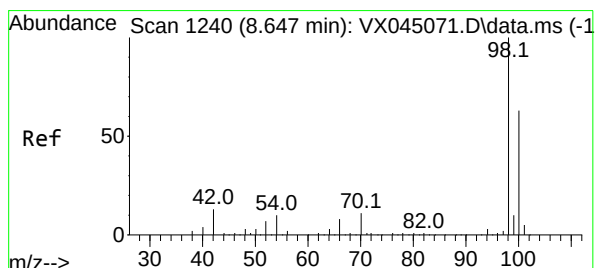
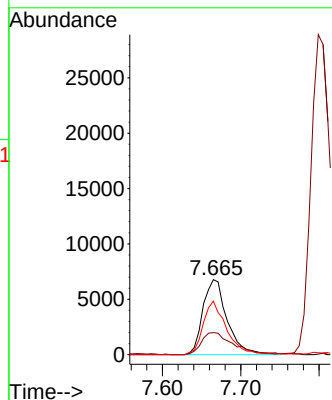
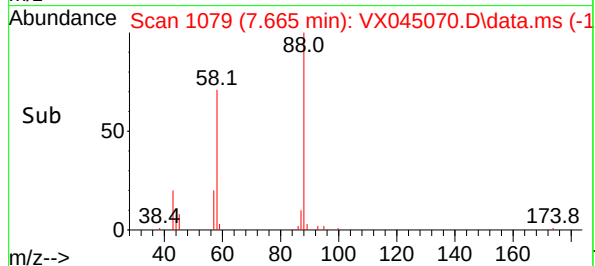
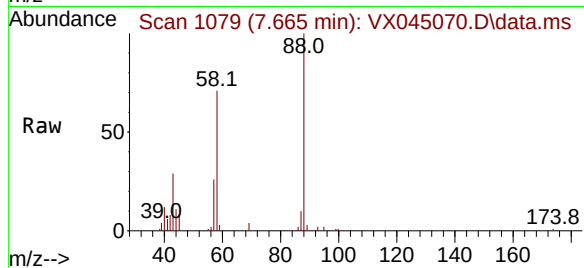
58 68.3 55.8 83.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#50

Toluene-d8

Concen: 19.469 ug/l

RT: 8.646 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX045070.D

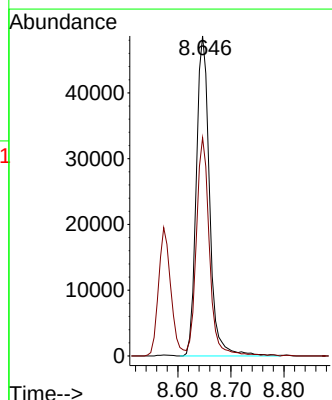
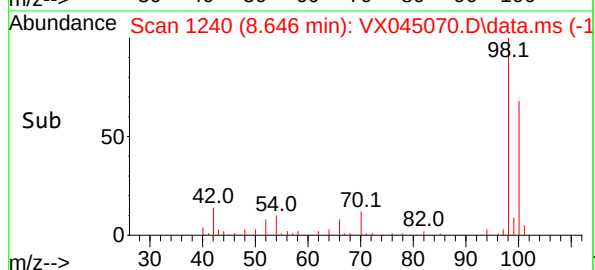
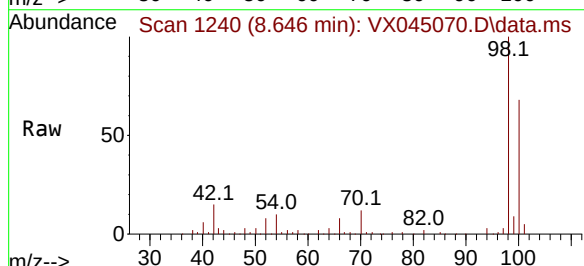
Acq: 28 Feb 2025 02:37

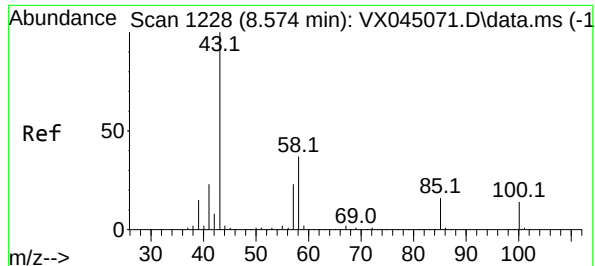
Tgt Ion: 98 Resp: 84516

Ion Ratio Lower Upper

98 100

100 67.2 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 124.081 ug/l

RT: 8.573 min Scan# 1228

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 22961

Ion Ratio Lower Upper

43 100

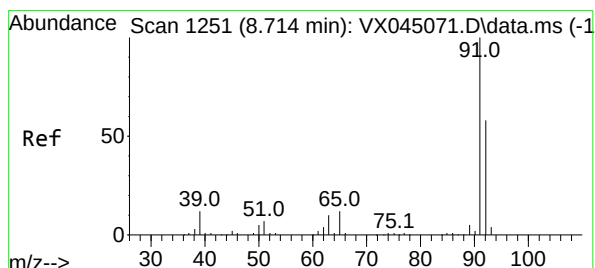
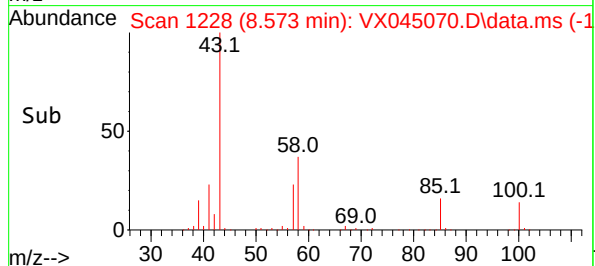
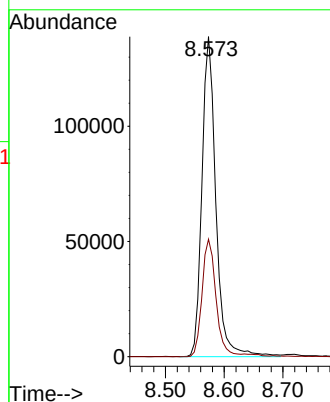
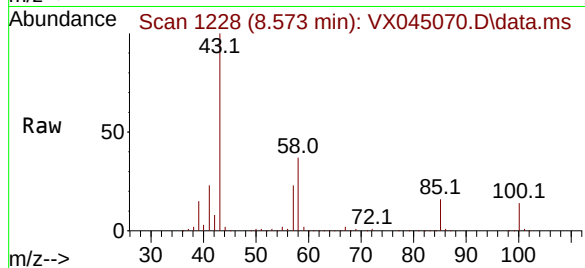
58 37.5 29.2 43.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#52

Toluene

Concen: 20.463 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. -0.000 min

Lab File: VX045070.D

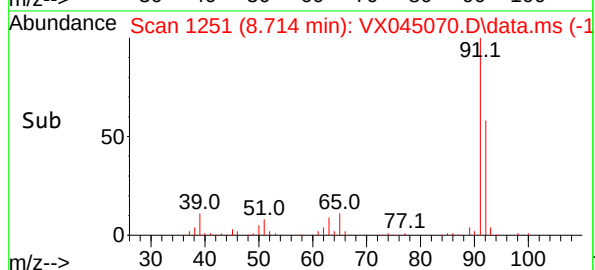
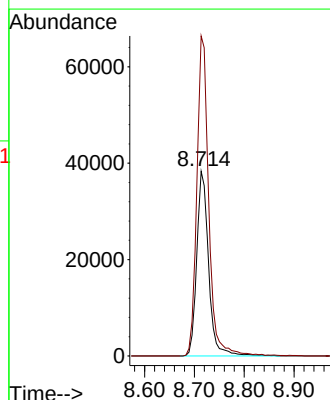
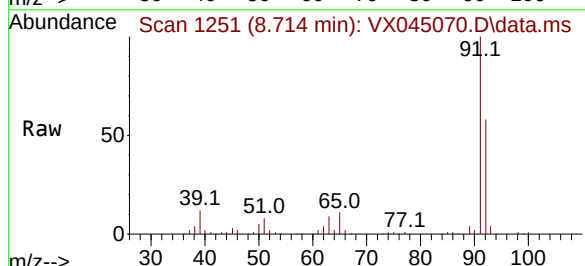
Acq: 28 Feb 2025 02:37

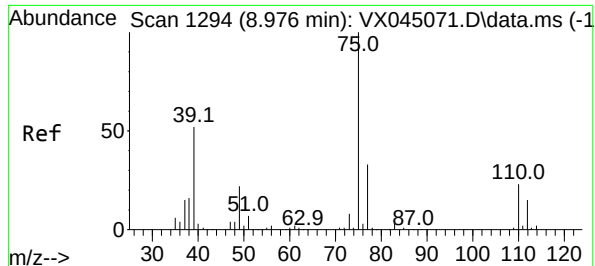
Tgt Ion: 92 Resp: 63326

Ion Ratio Lower Upper

92 100

91 173.7 138.9 208.3





#53

t-1,3-Dichloropropene

Concen: 17.871 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 75 Resp: 3091

Ion Ratio Lower Upper

75 100

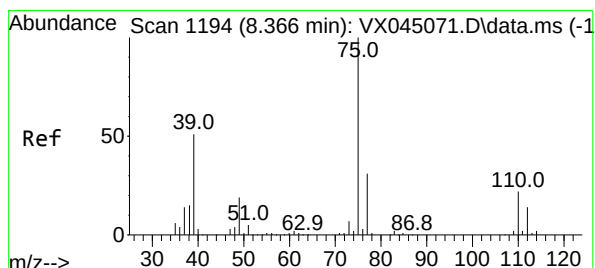
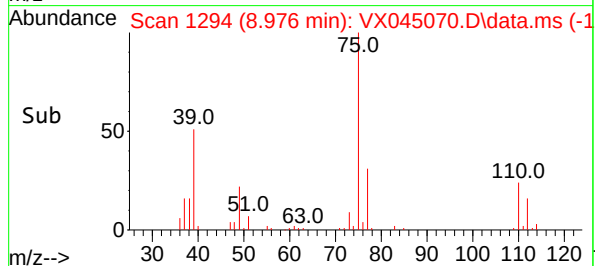
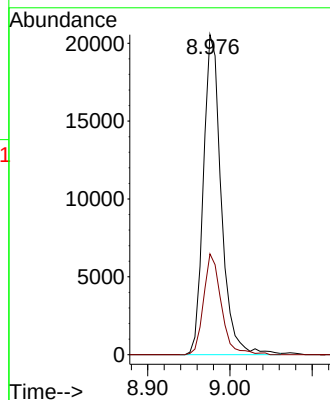
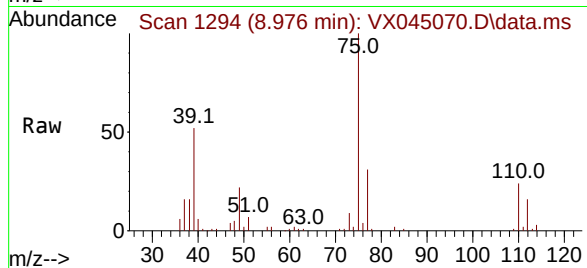
77 31.5 26.5 39.7

Manual Integrations

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Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#54

cis-1,3-Dichloropropene

Concen: 18.675 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

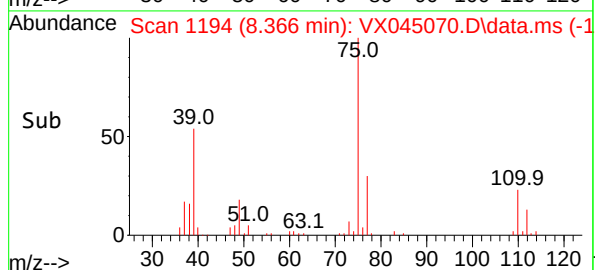
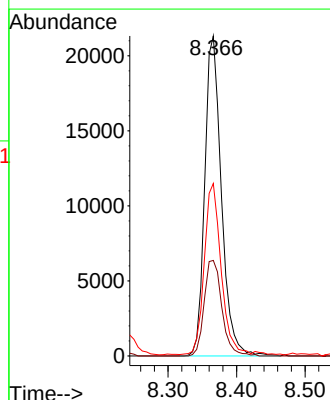
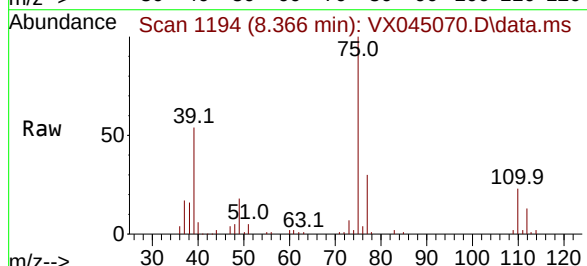
Tgt Ion: 75 Resp: 36118

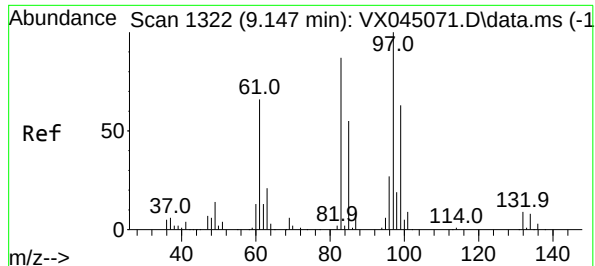
Ion Ratio Lower Upper

75 100

77 29.9 24.7 37.1

39 53.5 40.7 61.1





#55

1,1,2-Trichloroethane

Concen: 21.992 ug/l

RT: 9.152 min Scan# 1323

Delta R.T. 0.006 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 97 Resp: 2635

Ion Ratio Lower Upper

97 100

83 86.7 69.4 104.2

85 57.3 44.1 66.1

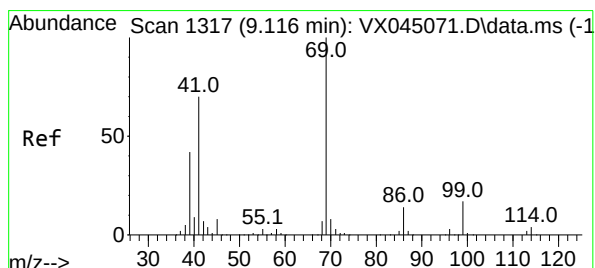
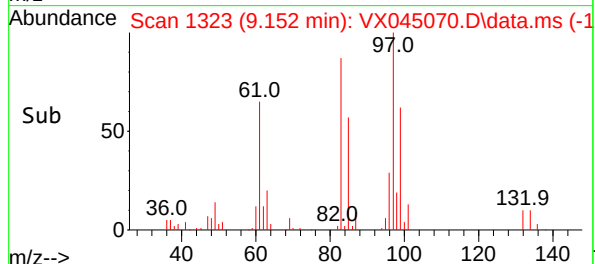
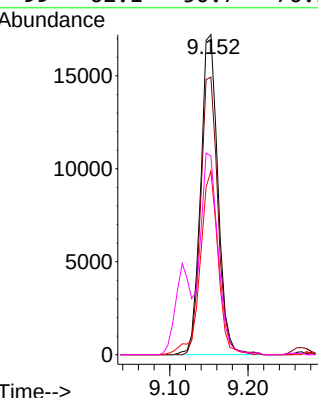
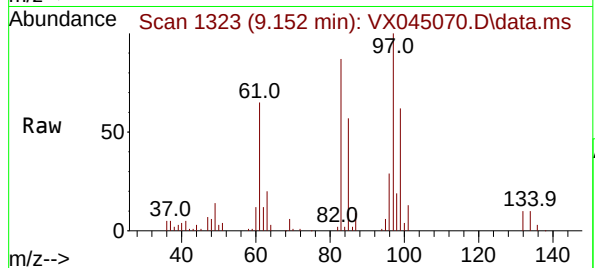
99 62.1 50.7 76.1

Manual Integrations

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Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#56

Ethyl methacrylate

Concen: 20.791 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

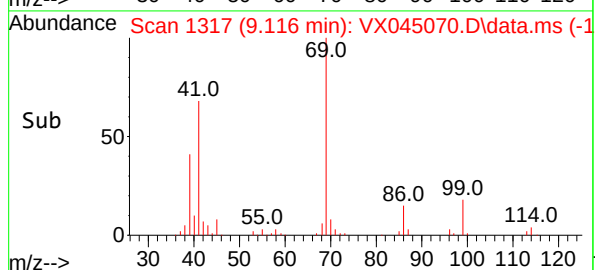
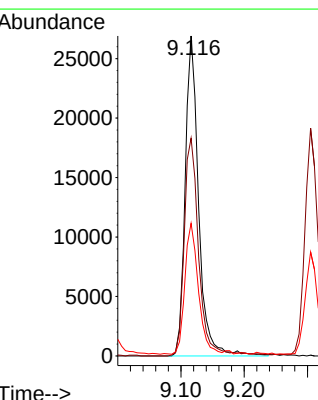
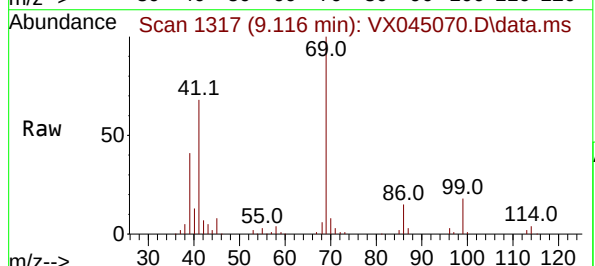
Tgt Ion: 69 Resp: 39850

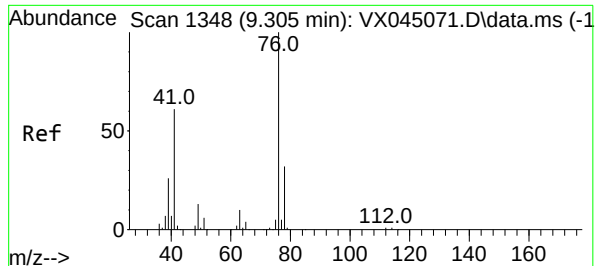
Ion Ratio Lower Upper

69 100

41 73.6 57.0 85.4

39 40.6 34.2 51.4





#57

1,3-Dichloropropane

Concen: 21.836 ug/l

RT: 9.305 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 76 Resp: 4564

Ion Ratio Lower Upper

76 100

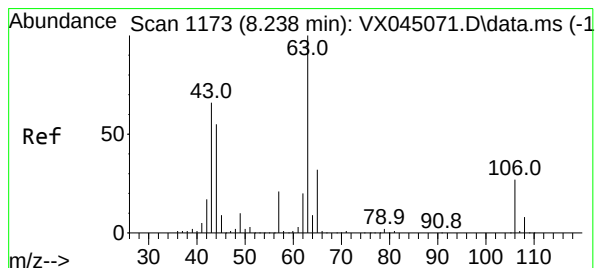
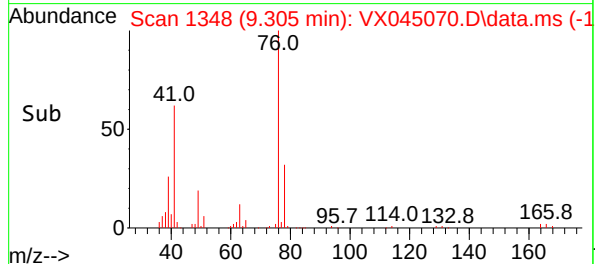
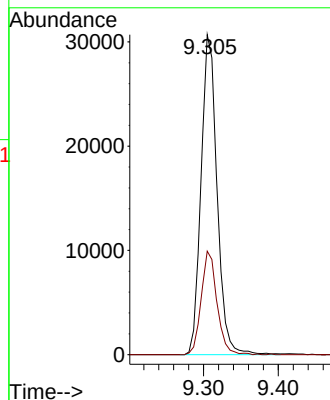
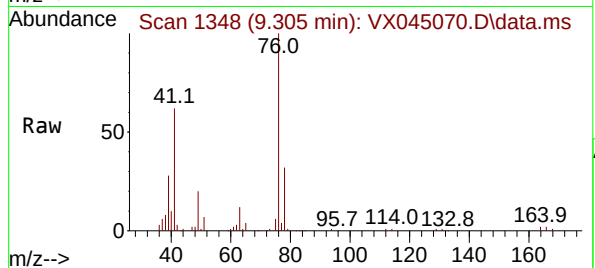
78 31.9 25.5 38.3

Manual Integrations

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Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#58

2-Chloroethyl Vinyl ether

Concen: 102.342 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX045070.D

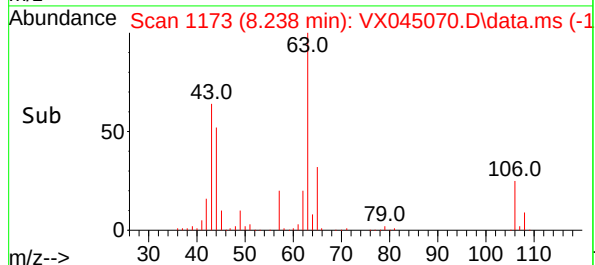
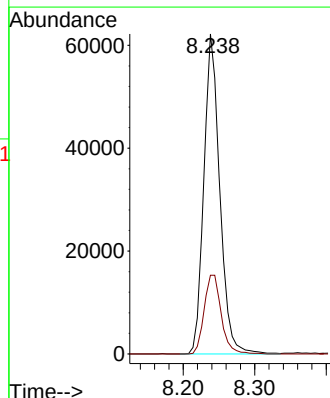
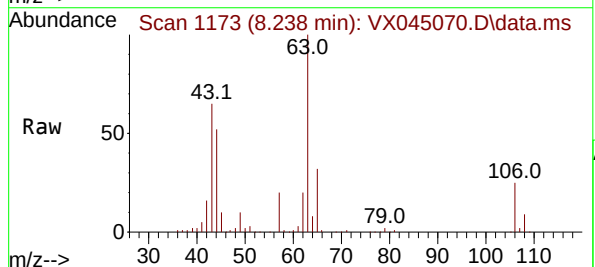
Acq: 28 Feb 2025 02:37

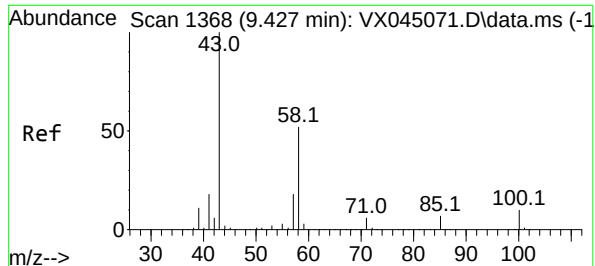
Tgt Ion: 63 Resp: 96311

Ion Ratio Lower Upper

63 100

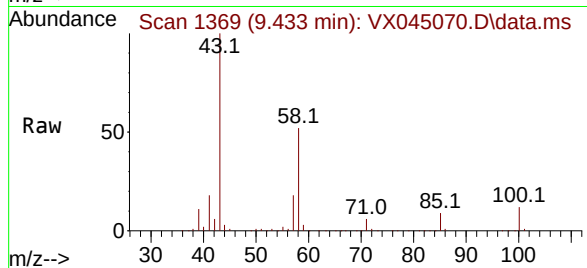
106 26.4 21.5 32.3





#59
2-Hexanone
Concen: 126.428 ug/l
RT: 9.433 min Scan# 1369
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

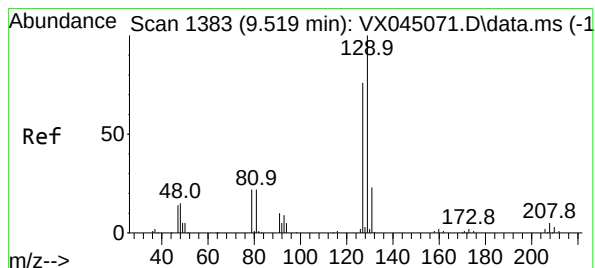
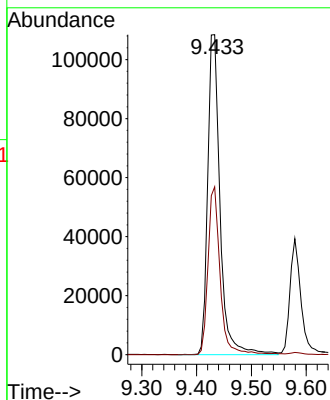
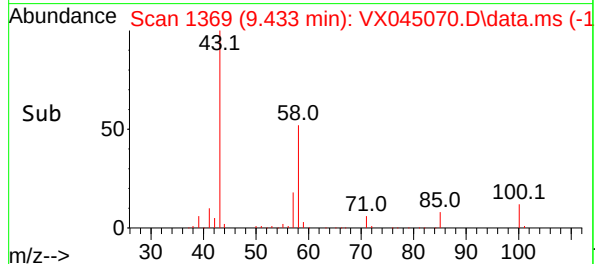
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 43 Resp: 168768
Ion Ratio Lower Upper
43 100
58 51.6 25.9 77.6

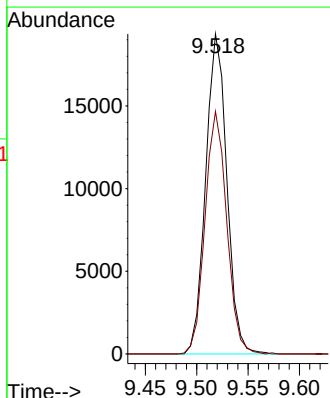
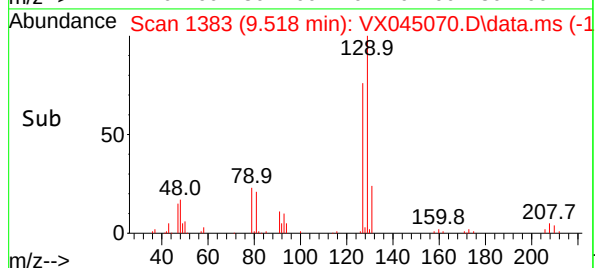
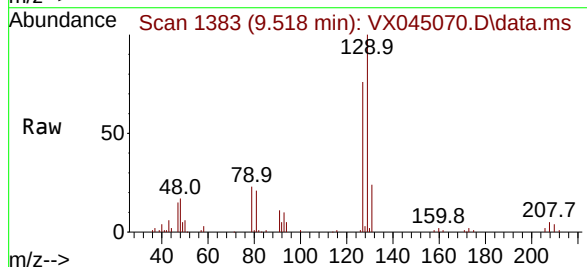
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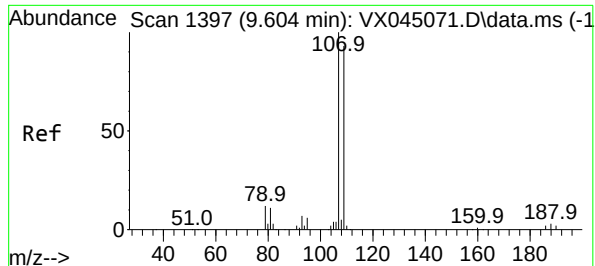
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#60
Dibromochloromethane
Concen: 21.668 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:129 Resp: 27705
Ion Ratio Lower Upper
129 100
127 77.8 38.5 115.5





#61

1,2-Dibromoethane

Concen: 21.764 ug/l

RT: 9.610 min Scan# 1398

Delta R.T. 0.006 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:107 Resp: 2631

Ion Ratio Lower Upper

107 100

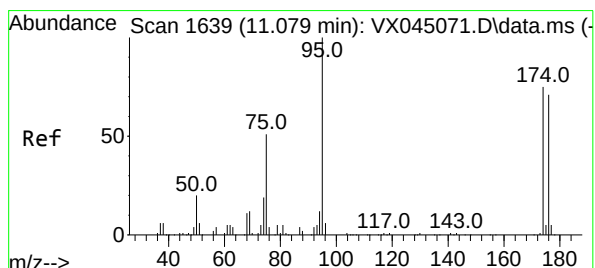
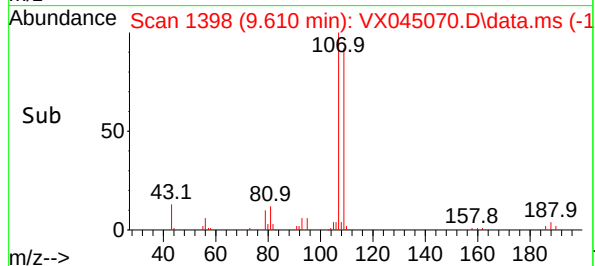
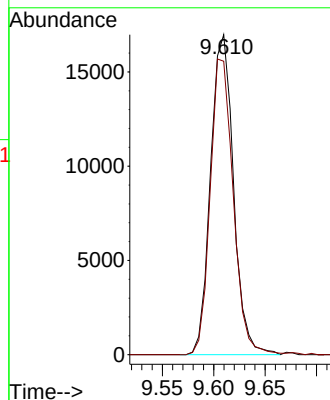
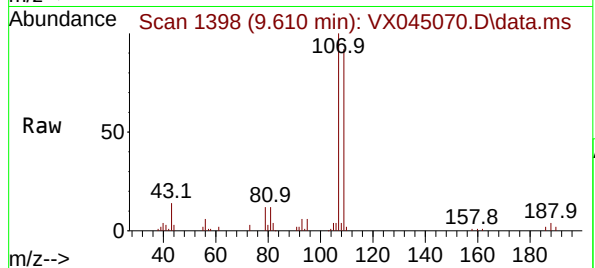
109 93.3 76.1 114.1

Manual Integrations

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Reviewed By :John Carbone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#62

4-Bromofluorobenzene

Concen: 19.215 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

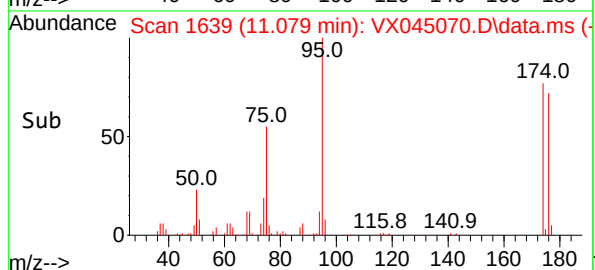
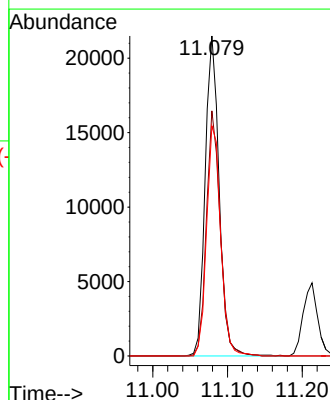
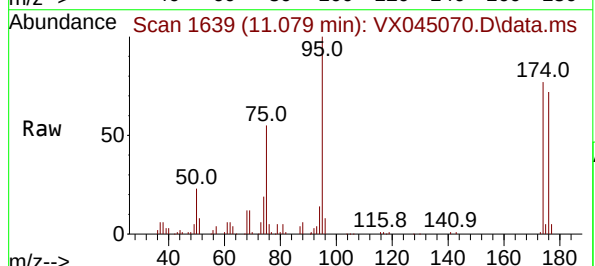
Tgt Ion: 95 Resp: 27856

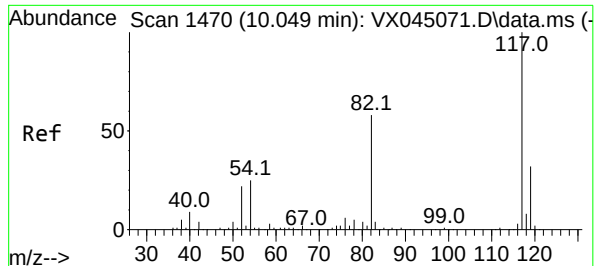
Ion Ratio Lower Upper

95 100

174 76.1 0.0 148.2

176 72.8 0.0 141.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.006 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:117 Resp: 157714

Ion Ratio Lower Upper

117 100

82 55.9 46.3 69.5

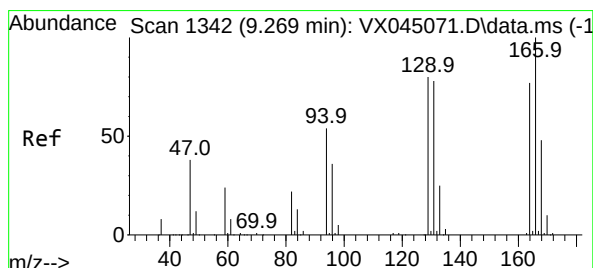
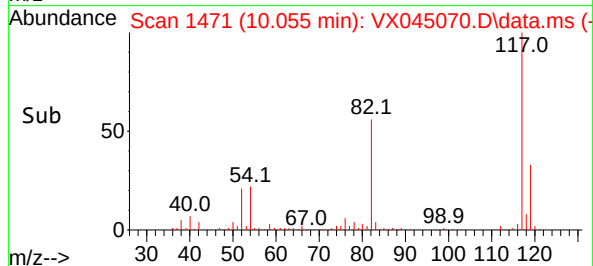
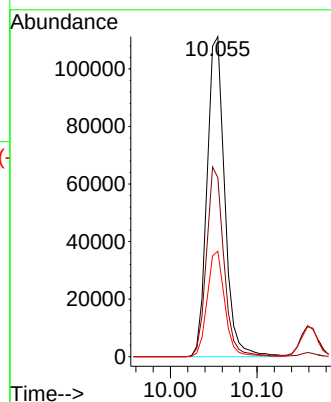
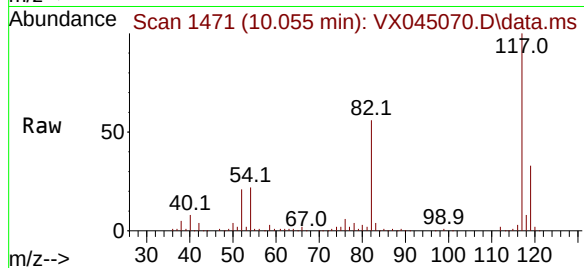
119 33.0 25.7 38.5

Manual Integrations

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Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#64

Tetrachloroethene

Concen: 20.102 ug/l

RT: 9.268 min Scan# 1342

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Tgt Ion:164 Resp: 20140

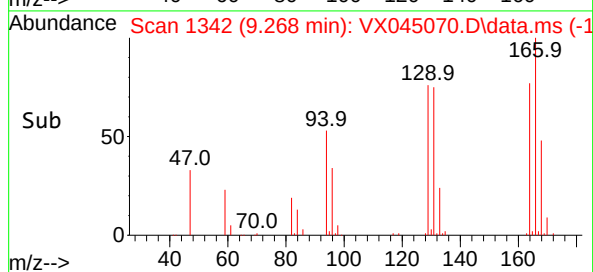
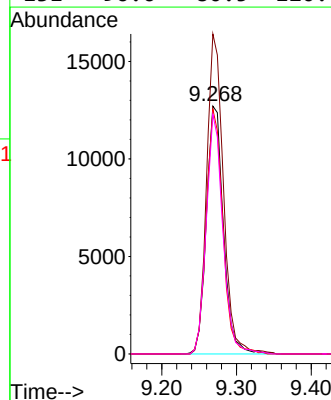
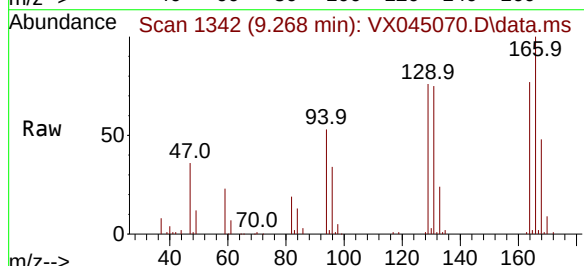
Ion Ratio Lower Upper

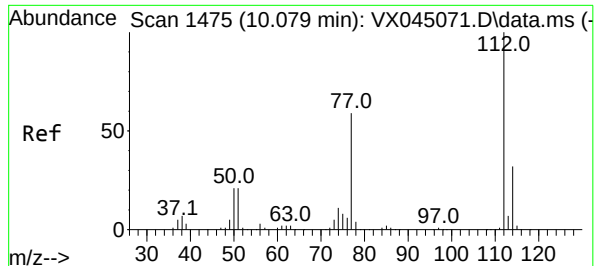
164 100

166 129.1 103.6 155.4

129 98.7 82.7 124.1

131 96.6 80.5 120.7





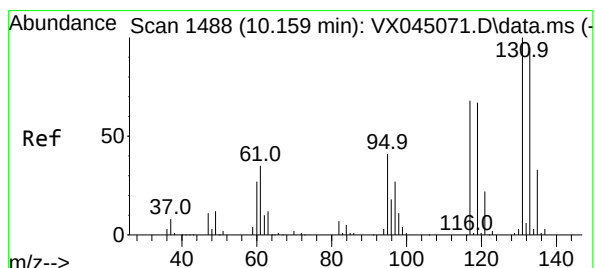
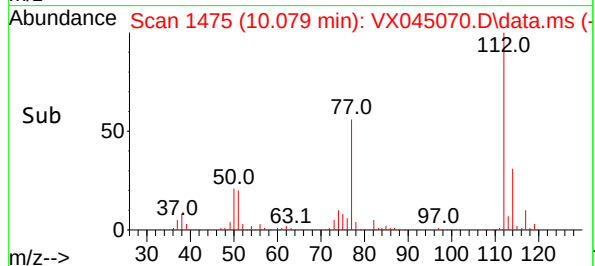
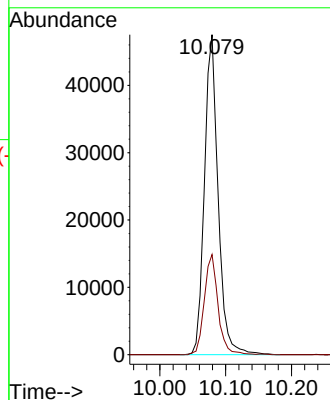
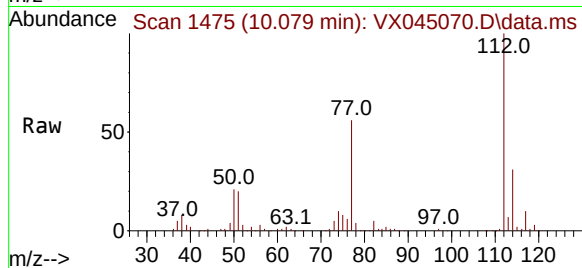
#65
Chlorobenzene
Concen: 20.316 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 6877
Ion Ratio Lower Upper
112 100
114 31.3 26.0 39.0

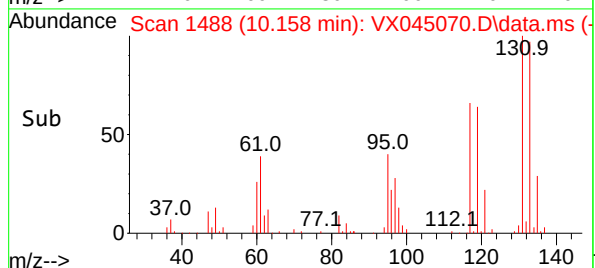
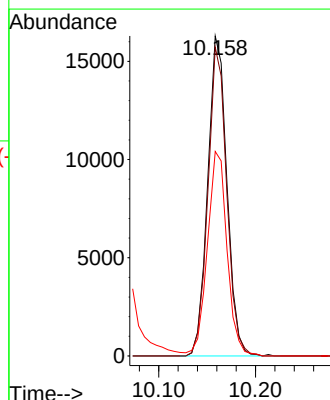
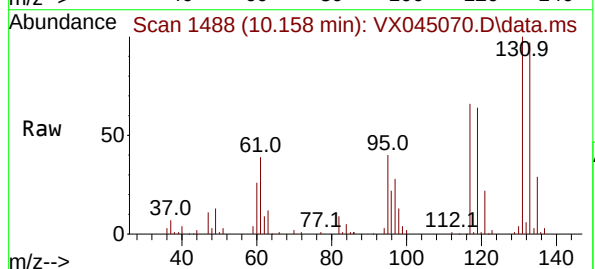
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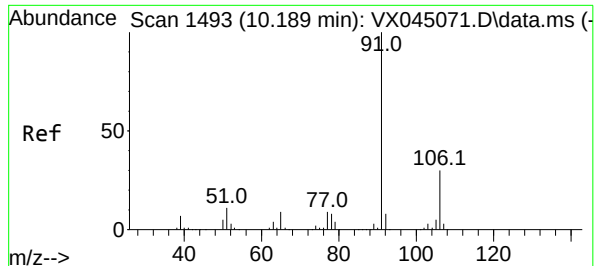
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 20.627 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:131 Resp: 22508
Ion Ratio Lower Upper
131 100
133 94.6 48.6 145.9
119 65.4 33.9 101.7





#67

Ethyl Benzene

Concen: 19.905 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 11916

Ion Ratio Lower Upper

91 100

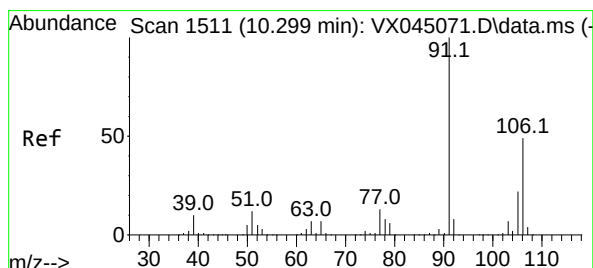
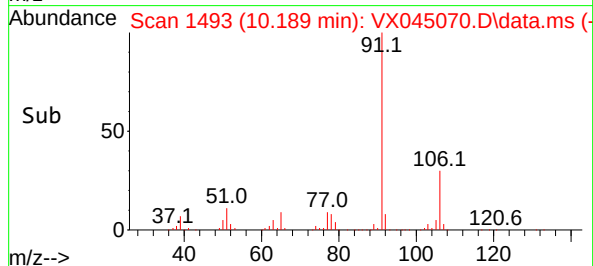
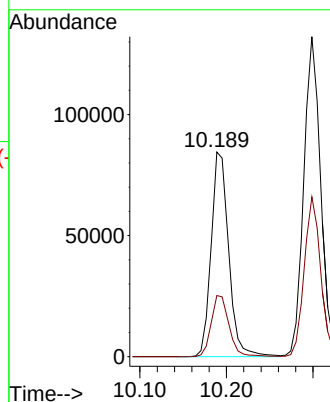
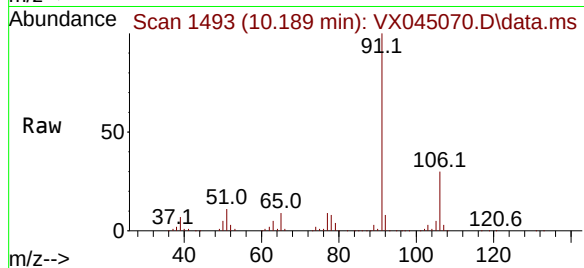
106 29.9 23.9 35.9

Manual Integrations

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Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#68

m/p-Xylenes

Concen: 40.699 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX045070.D

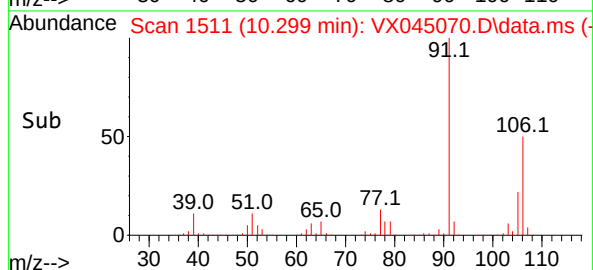
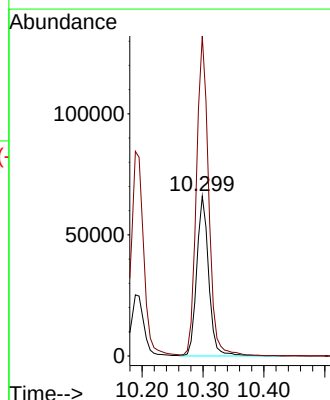
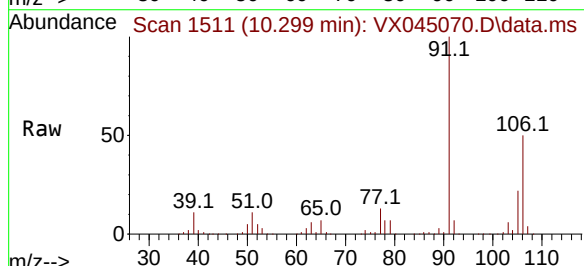
Acq: 28 Feb 2025 02:37

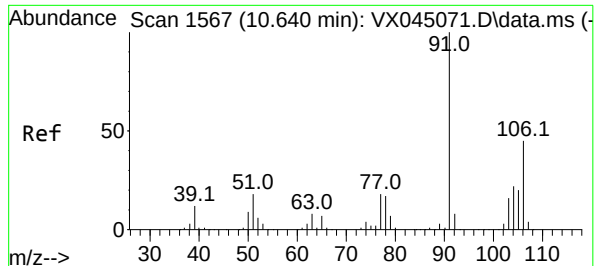
Tgt Ion:106 Resp: 89735

Ion Ratio Lower Upper

106 100

91 204.2 165.4 248.0





#69

o-Xylene

Concen: 20.018 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:106 Resp: 4428

Ion Ratio Lower Upper

106 100

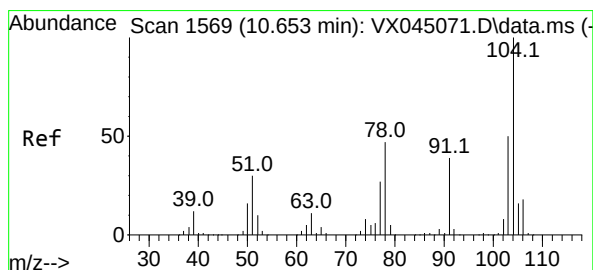
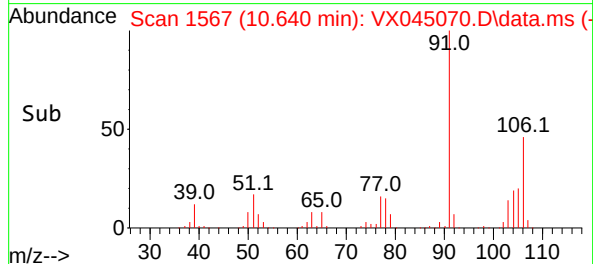
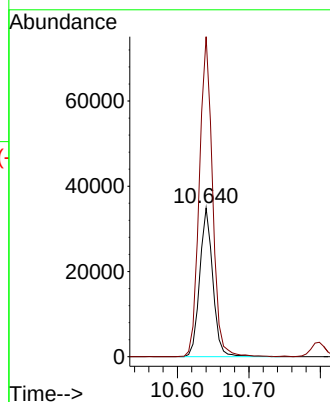
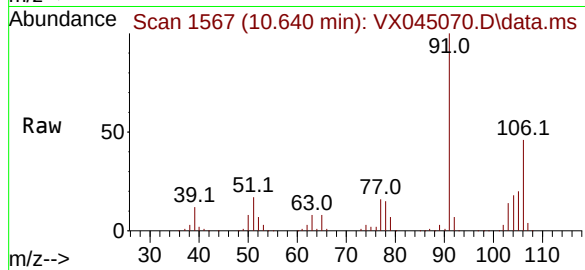
91 216.8 109.9 329.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#70

Styrene

Concen: 20.767 ug/l

RT: 10.652 min Scan# 1569

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

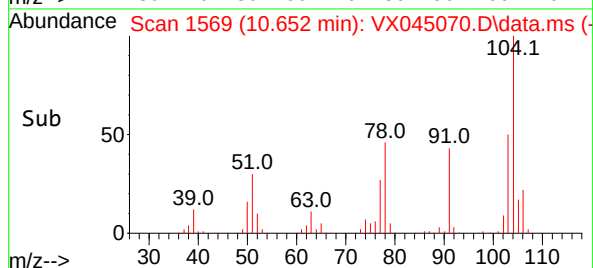
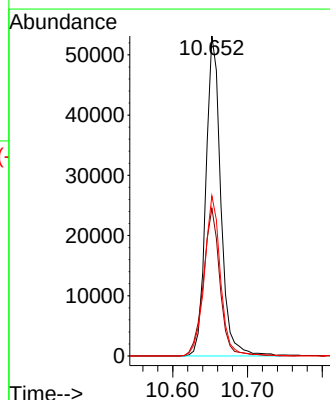
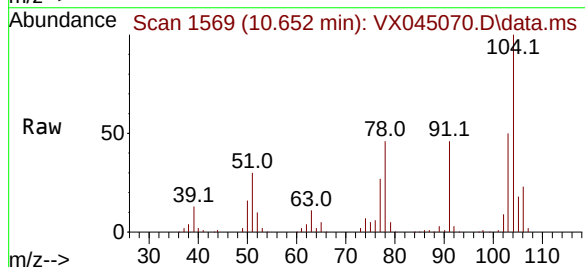
Tgt Ion:104 Resp: 73832

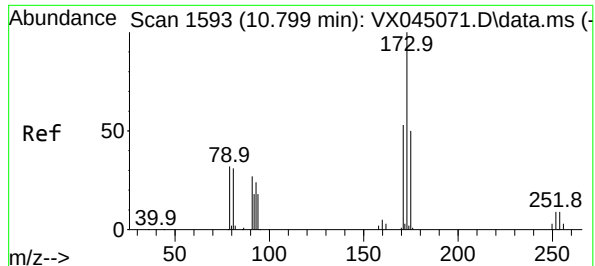
Ion Ratio Lower Upper

104 100

78 50.9 42.2 63.4

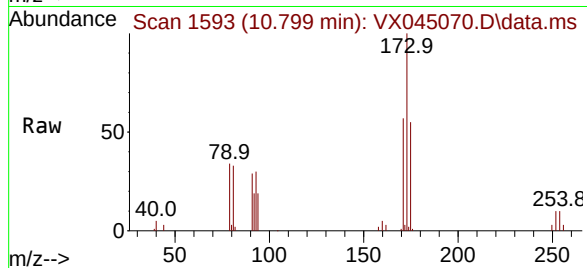
103 54.1 43.8 65.8





#71
Bromoform
Concen: 21.449 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

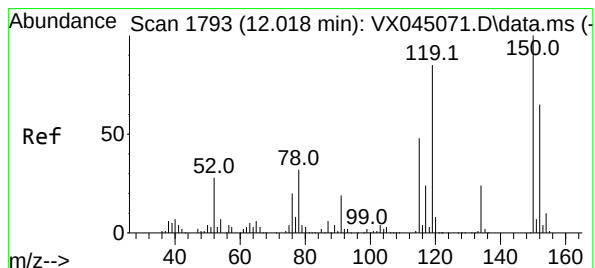
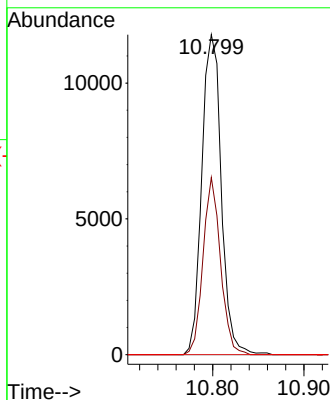
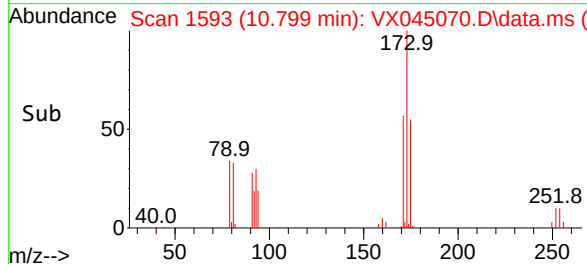
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:173 Resp: 1740
Ion Ratio Lower Upper
173 100
175 49.7 24.6 73.6
254 0.0 0.0 0.0

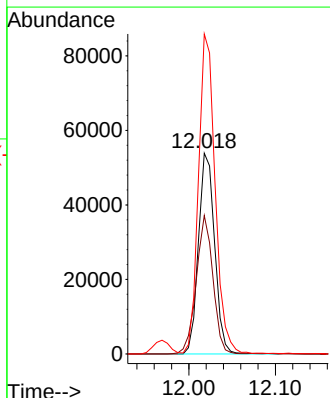
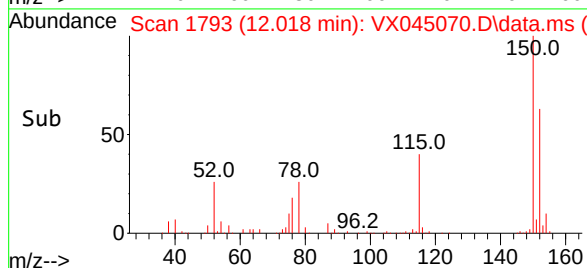
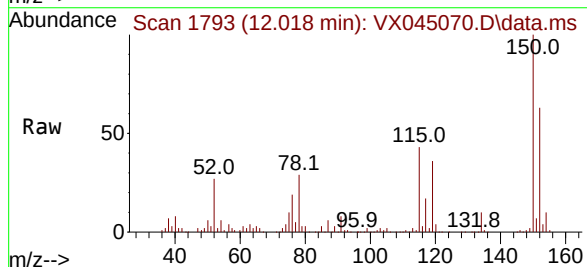
Manual Integrations
APPROVED

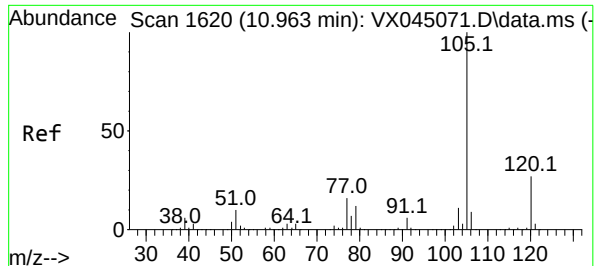
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

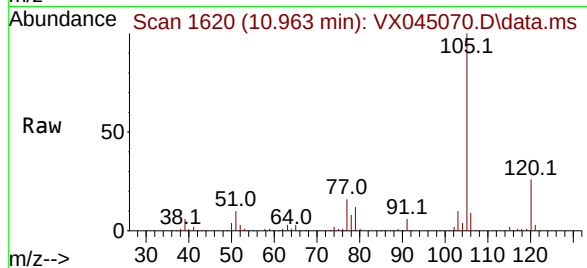
Tgt Ion:152 Resp: 70072
Ion Ratio Lower Upper
152 100
115 70.9 44.2 132.6
150 163.4 0.0 349.0





#73
Isopropylbenzene
Concen: 19.794 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

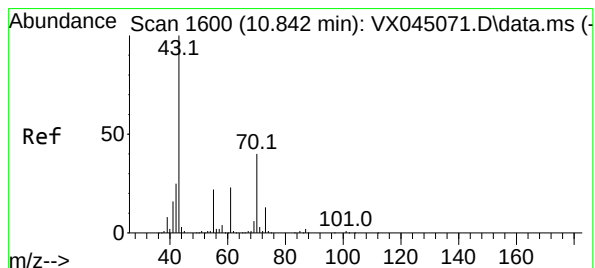
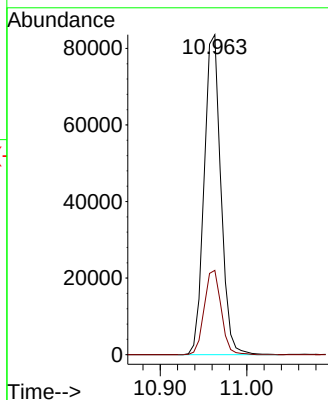
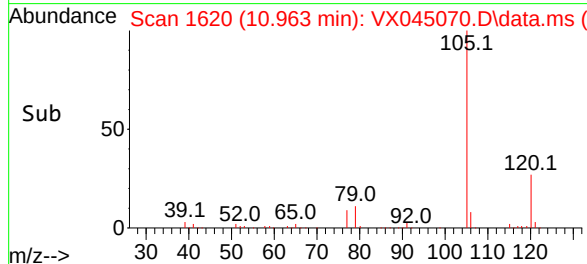
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:105 Resp: 112099
Ion Ratio Lower Upper
105 100
120 26.7 13.2 39.5

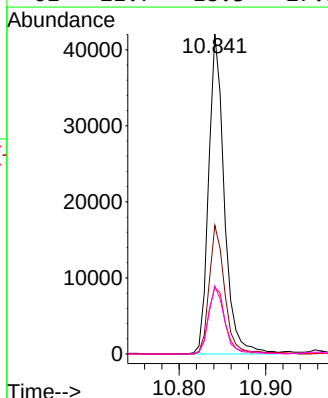
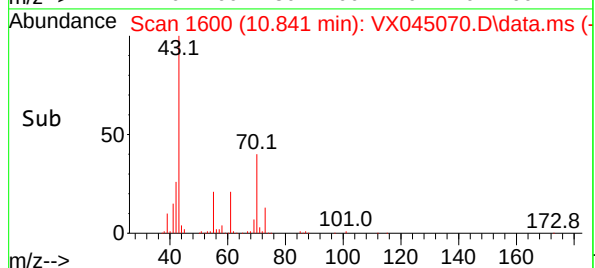
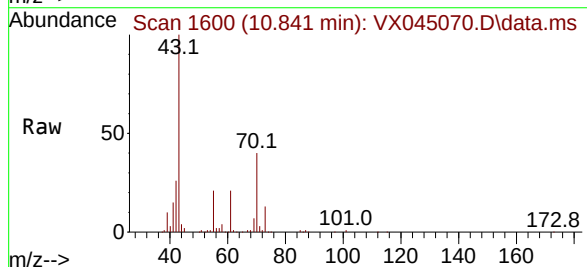
Manual Integrations
APPROVED

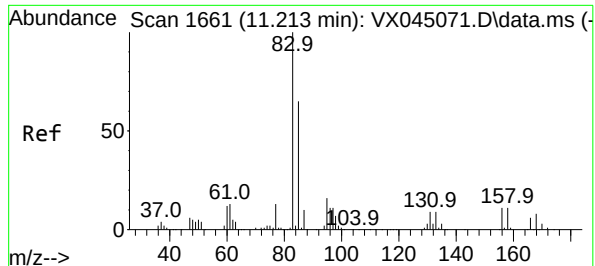
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#74
N-ethyl acetate
Concen: 20.606 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 43 Resp: 52972
Ion Ratio Lower Upper
43 100
70 40.0 31.8 47.6
55 23.0 18.3 27.5
61 21.7 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 21.738 ug/l

RT: 11.213 min Scan# 1661

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

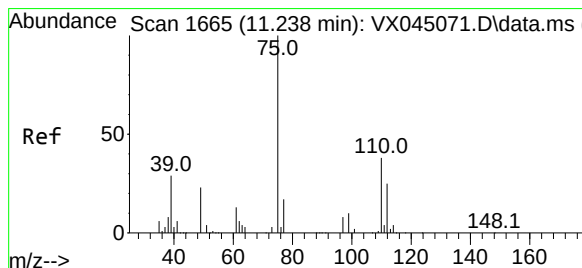
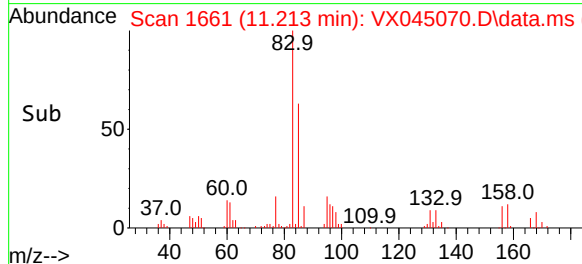
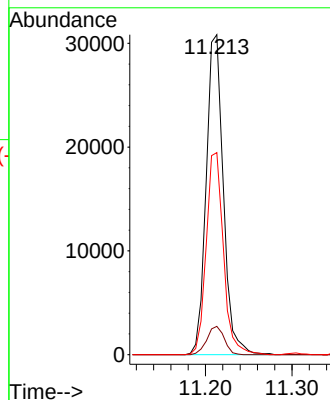
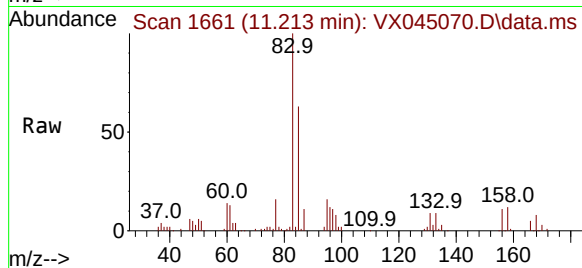
Tgt Ion:	83	Resp:	4241
Ion	Ratio	Lower	Upper
83	100		
131	9.0	4.5	13.4
85	63.4	31.7	95.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#76

1,2,3-Trichloropropane

Concen: 21.394 ug/l m

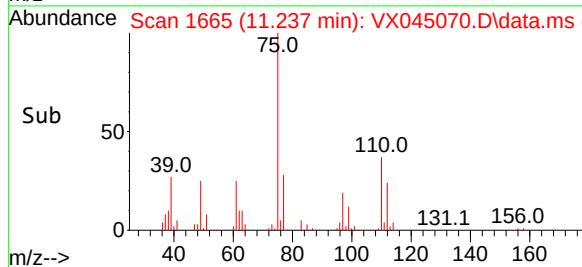
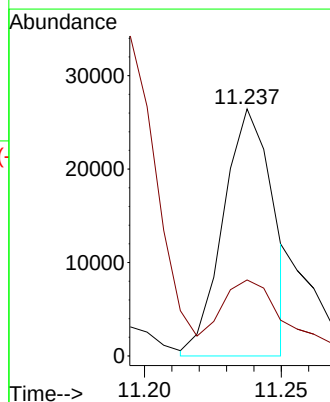
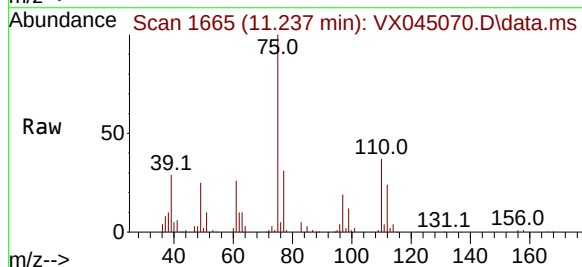
RT: 11.237 min Scan# 1665

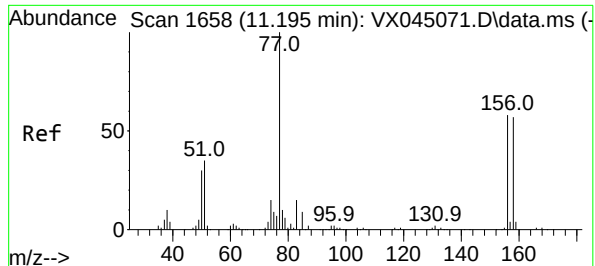
Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

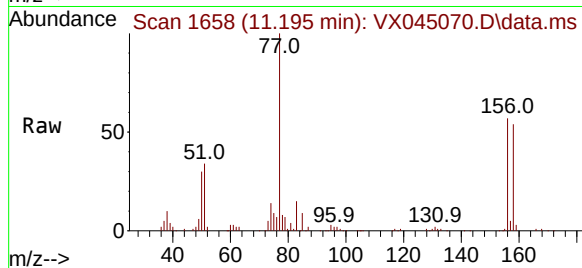
Tgt Ion:	75	Resp:	33440
Ion	Ratio	Lower	Upper
75	100		
77	40.6	20.7	62.1





#77
Bromobenzene
Concen: 20.466 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

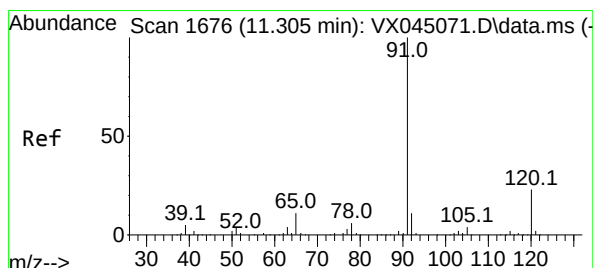
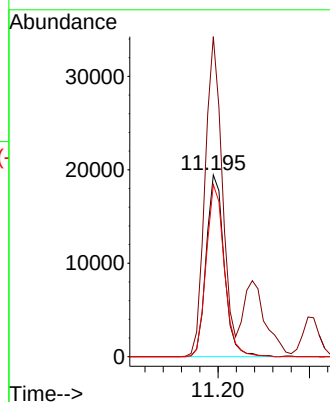
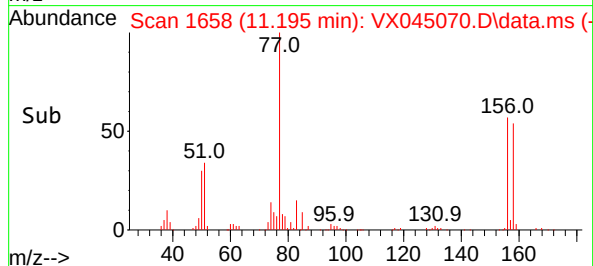
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



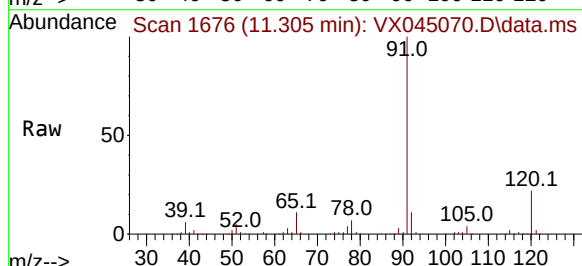
Tgt Ion:156 Resp: 26310
Ion Ratio Lower Upper
156 100
77 170.2 85.8 257.4
158 95.9 48.4 145.2

Manual Integrations
APPROVED

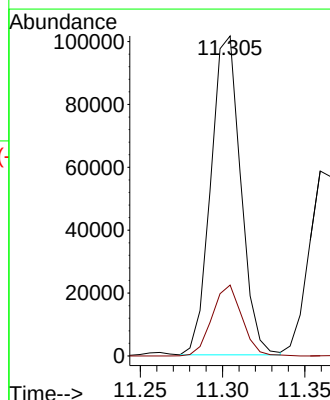
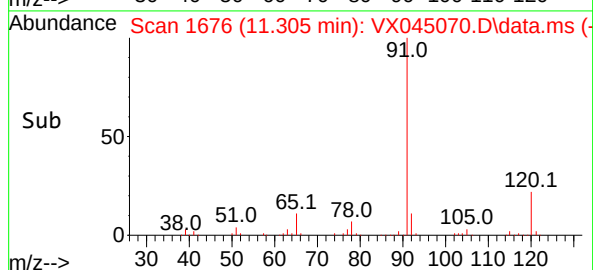
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

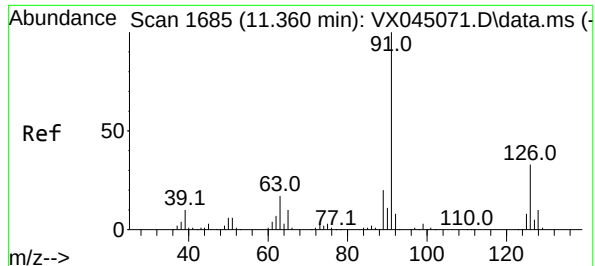


#78
n-propylbenzene
Concen: 19.641 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37



Tgt Ion: 91 Resp: 128284
Ion Ratio Lower Upper
91 100
120 22.3 11.2 33.6





#79

2-Chlorotoluene

Concen: 19.775 ug/l

RT: 11.359 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 79275

Ion Ratio Lower Upper

91 100

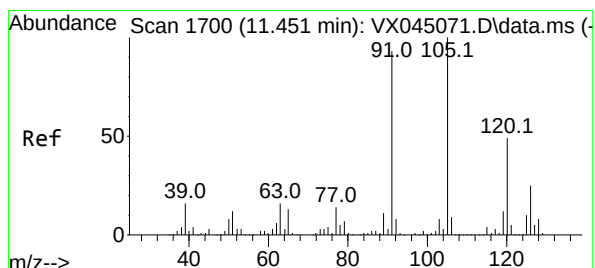
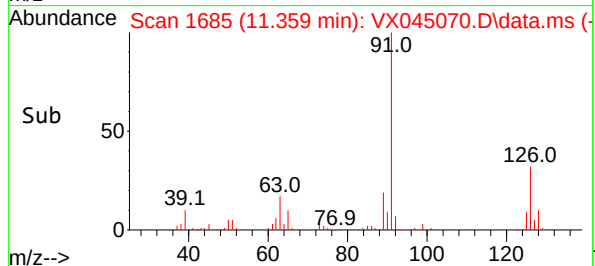
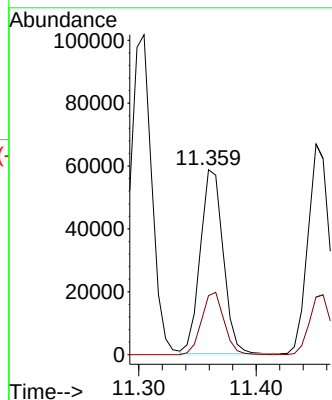
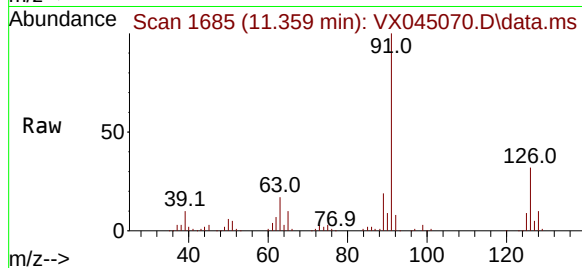
126 33.1 16.4 49.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#80

1,3,5-Trimethylbenzene

Concen: 20.581 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX045070.D

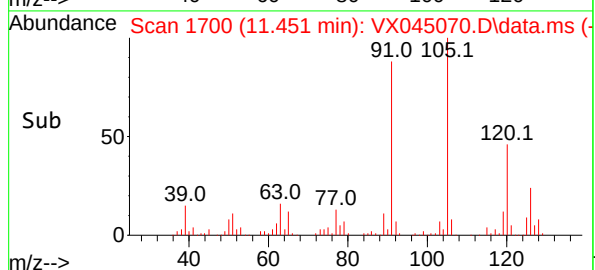
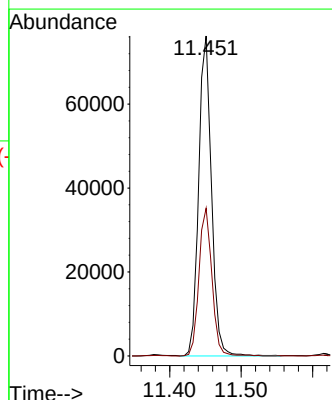
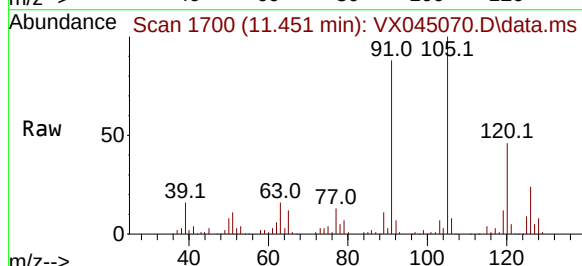
Acq: 28 Feb 2025 02:37

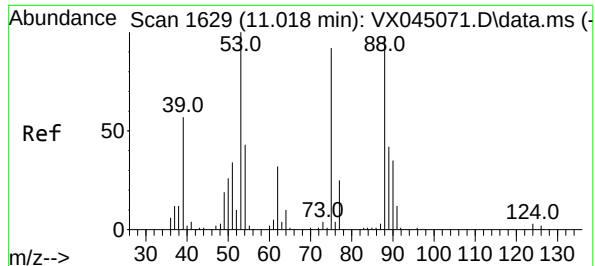
Tgt Ion:105 Resp: 94545

Ion Ratio Lower Upper

105 100

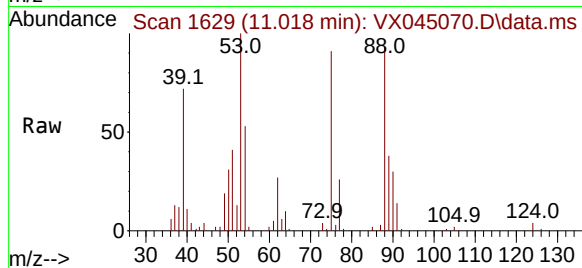
120 46.8 24.1 72.2





#81
trans-1,4-Dichloro-2-butene
Concen: 15.196 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

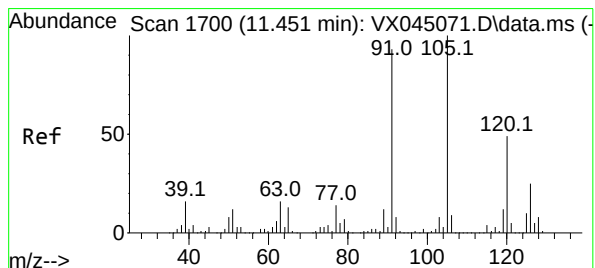
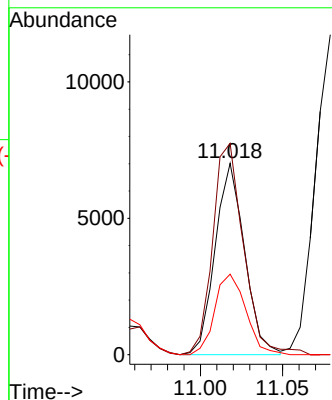
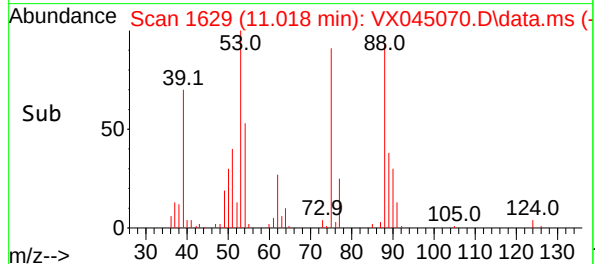
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion: 75 Resp: 8759
Ion Ratio Lower Upper
75 100
53 115.4 88.5 132.7
89 44.3 36.2 54.4

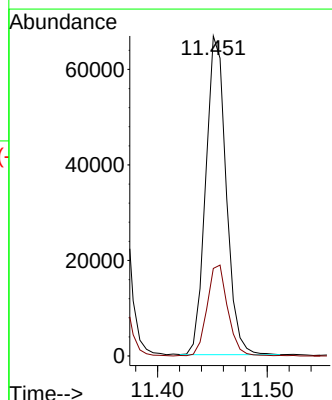
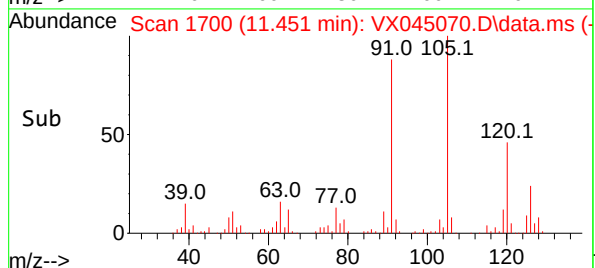
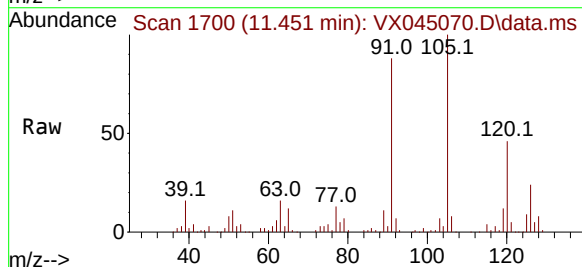
Manual Integrations
APPROVED

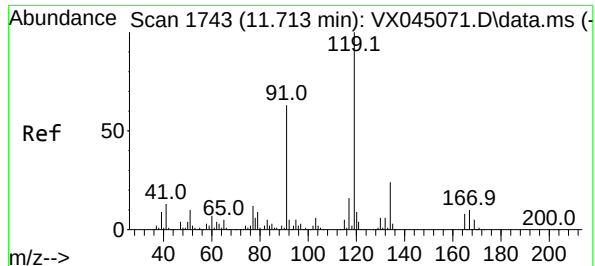
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#82
4-Chlorotoluene
Concen: 19.443 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

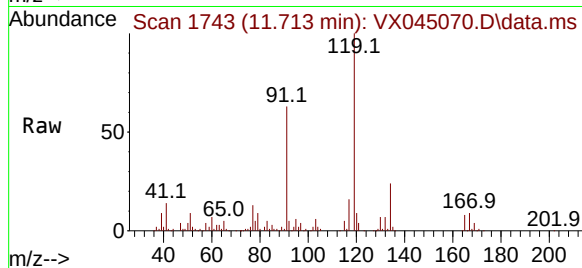
Tgt Ion: 91 Resp: 86281
Ion Ratio Lower Upper
91 100
126 29.1 14.1 42.4





#83
tert-Butylbenzene
Concen: 20.159 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

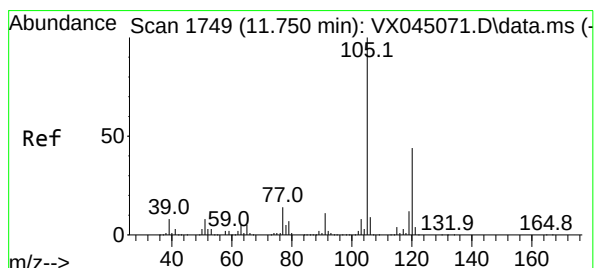
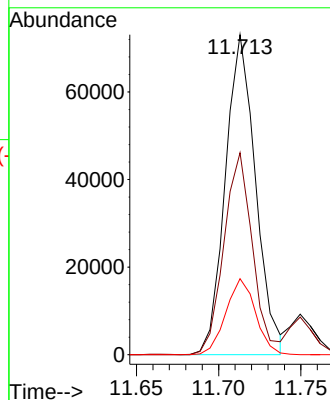
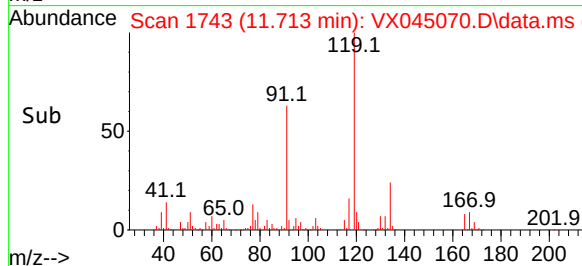
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:119 Resp: 93670
Ion Ratio Lower Upper
119 100
91 60.0 30.7 92.1
134 23.4 11.7 35.0

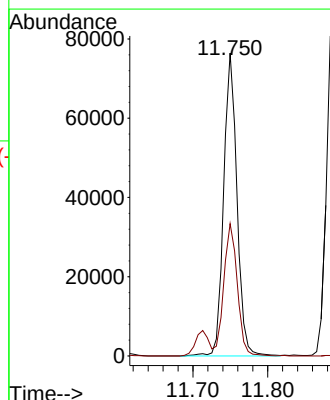
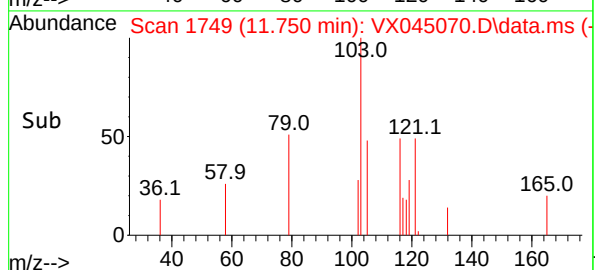
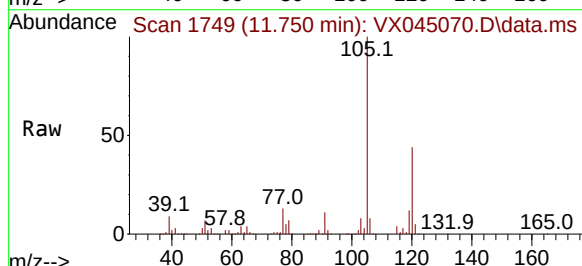
Manual Integrations
APPROVED

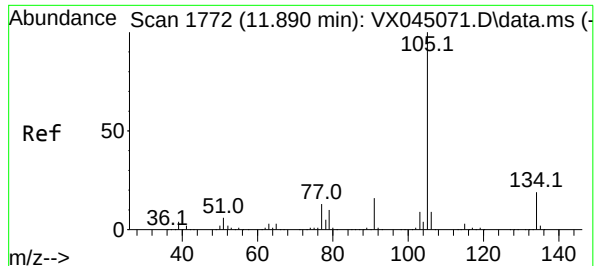
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#84
1,2,4-Trimethylbenzene
Concen: 20.943 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

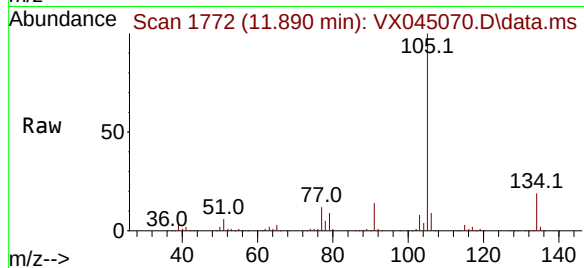
Tgt Ion:105 Resp: 94734
Ion Ratio Lower Upper
105 100
120 44.3 22.1 66.1





#85
sec-Butylbenzene
Concen: 20.160 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

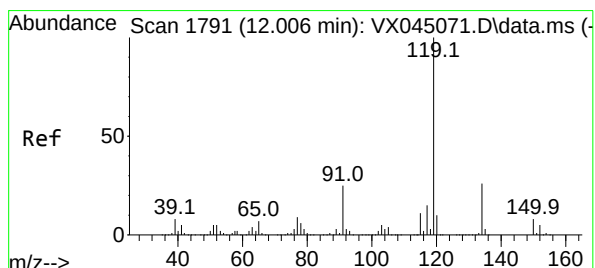
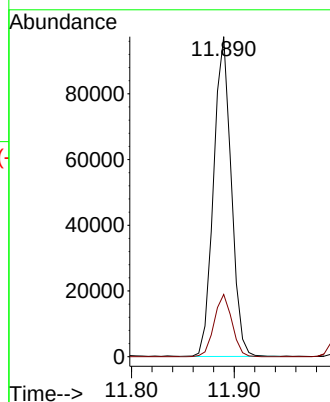
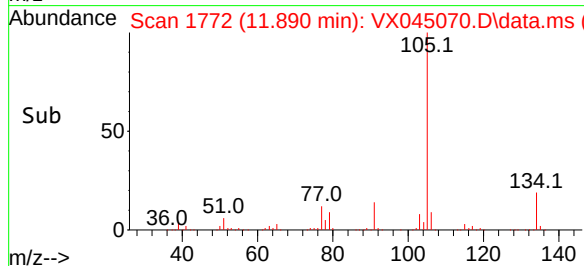
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:105 Resp: 11595
Ion Ratio Lower Upper
105 100
134 19.6 9.8 29.4

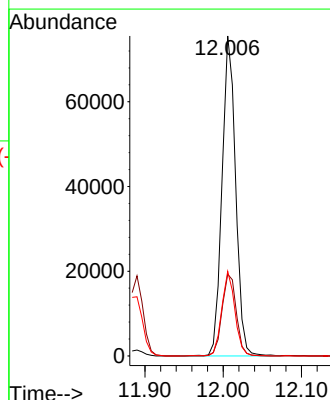
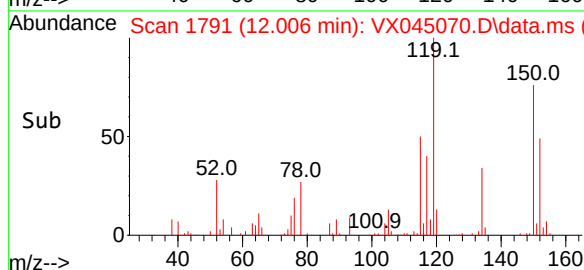
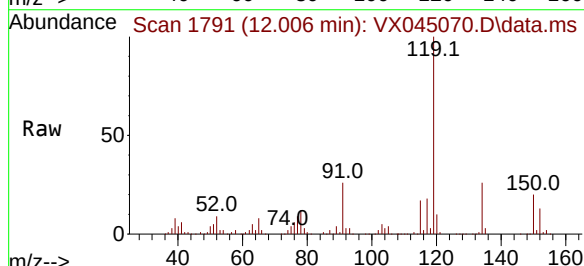
Manual Integrations
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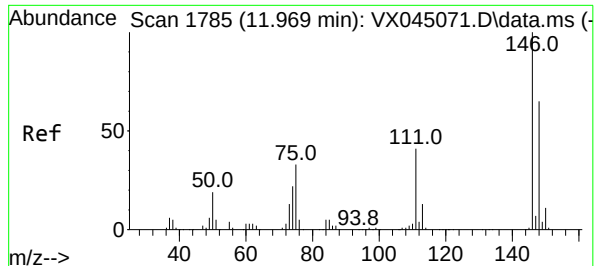
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#86
p-Isopropyltoluene
Concen: 19.827 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:119 Resp: 91554
Ion Ratio Lower Upper
119 100
134 26.8 12.9 38.6
91 25.6 12.7 38.0





#87

1,3-Dichlorobenzene

Concen: 20.400 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

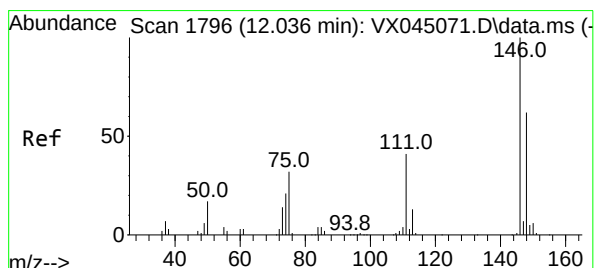
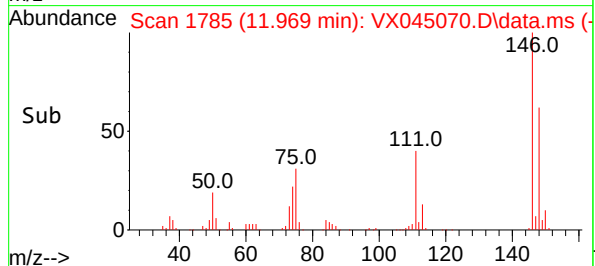
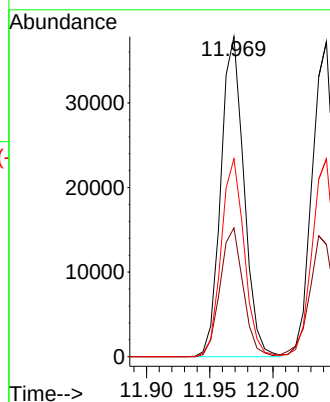
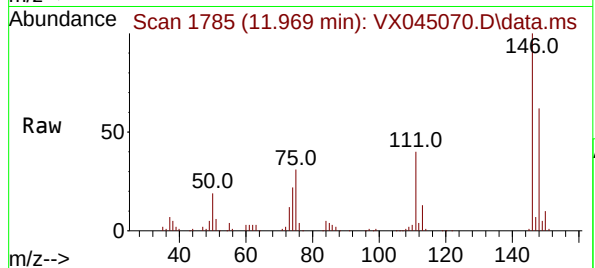
Tgt Ion:146 Resp: 47934
Ion Ratio Lower Upper
146 100
111 40.2 21.1 63.4
148 61.6 31.9 95.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#88

1,4-Dichlorobenzene

Concen: 19.615 ug/l

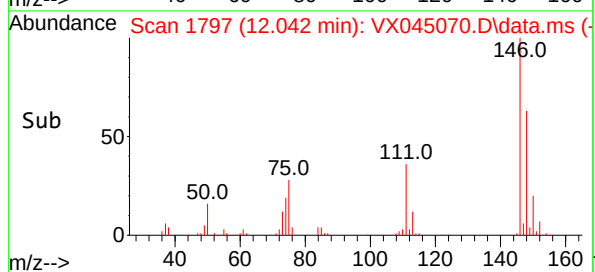
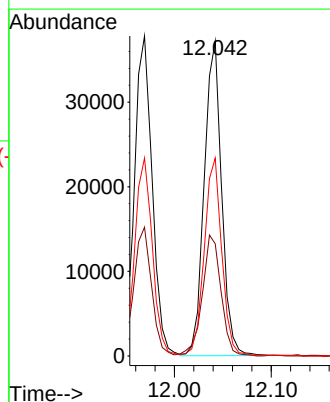
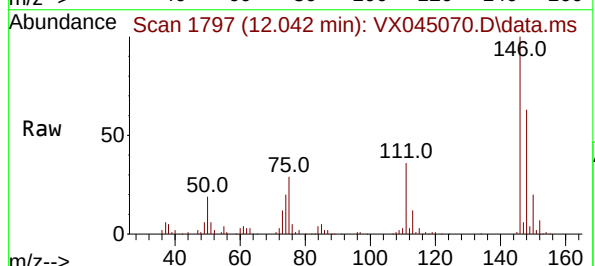
RT: 12.042 min Scan# 1797

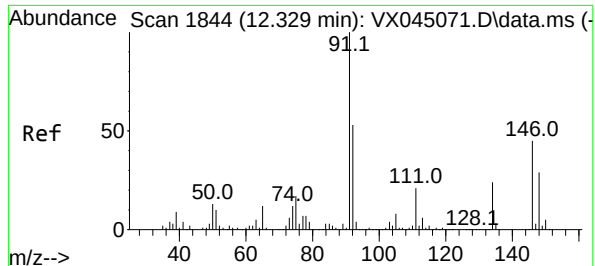
Delta R.T. 0.006 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Tgt Ion:146 Resp: 46657
Ion Ratio Lower Upper
146 100
111 41.4 20.2 60.5
148 63.8 31.9 95.9





#89

n-Butylbenzene

Concen: 19.249 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 7813

Ion Ratio Lower Upper

91 100

92 52.9 26.7 80.0

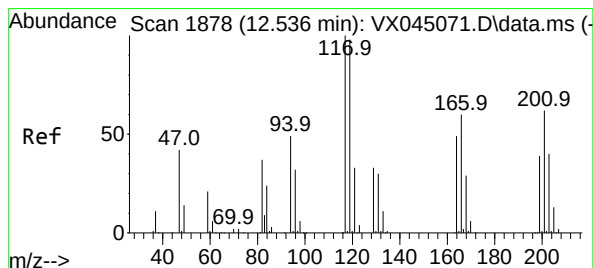
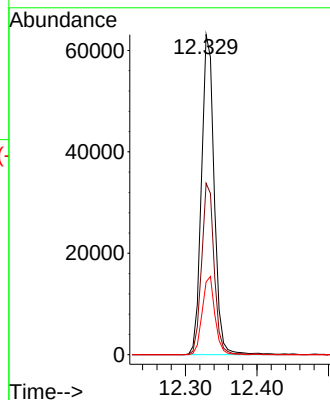
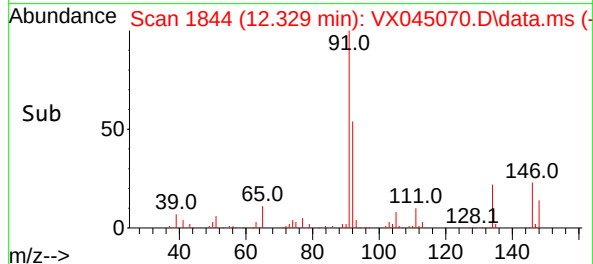
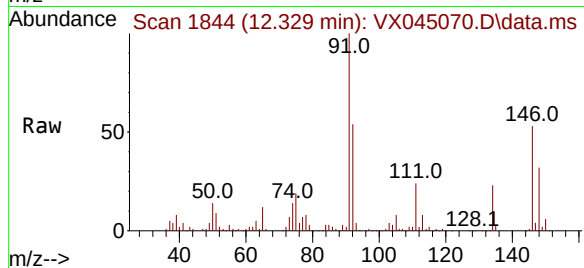
134 24.3 12.2 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#90

Hexachloroethane

Concen: 18.483 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX045070.D

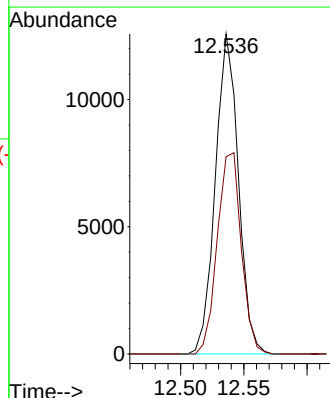
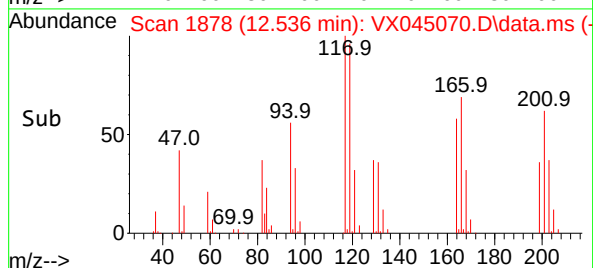
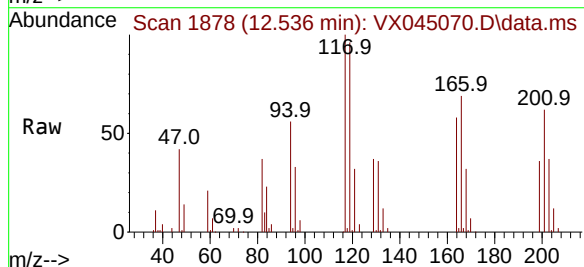
Acq: 28 Feb 2025 02:37

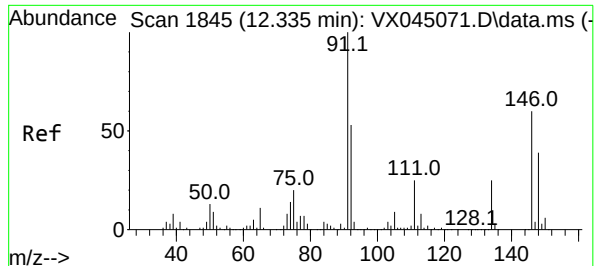
Tgt Ion:117 Resp: 15919

Ion Ratio Lower Upper

117 100

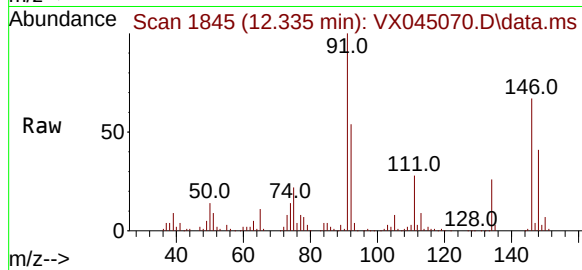
201 65.6 31.9 95.9





#91
1,2-Dichlorobenzene
Concen: 21.031 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

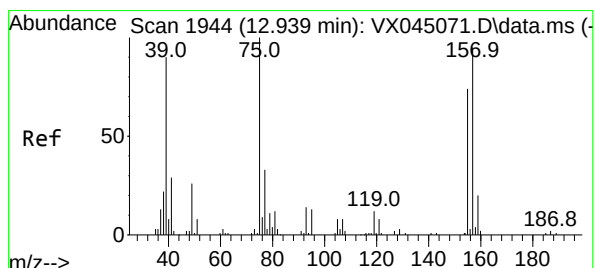
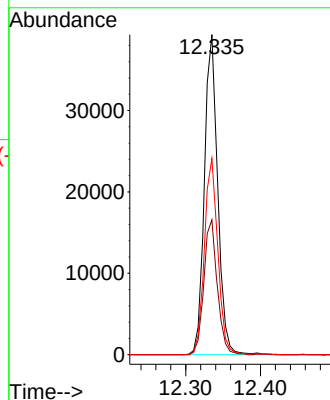
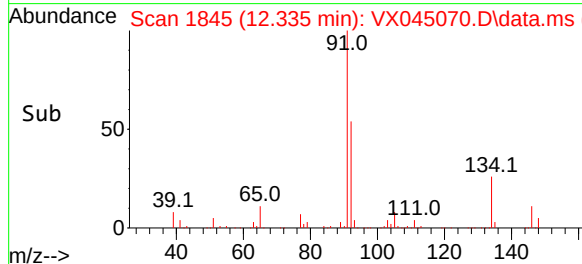
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion:146 Resp: 4863
Ion Ratio Lower Upper
146 100
111 42.6 21.6 65.0
148 62.1 31.9 95.9

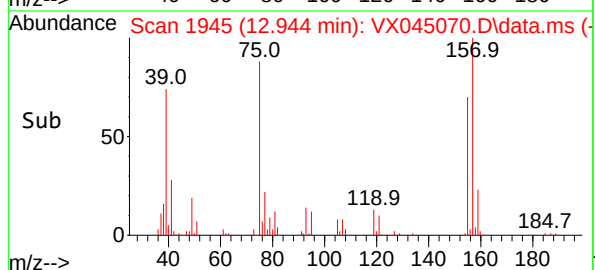
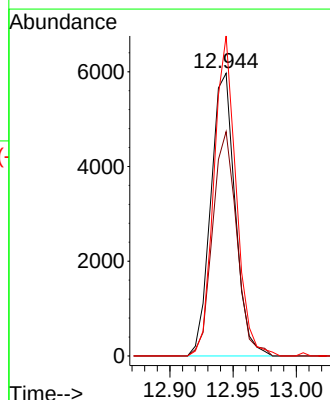
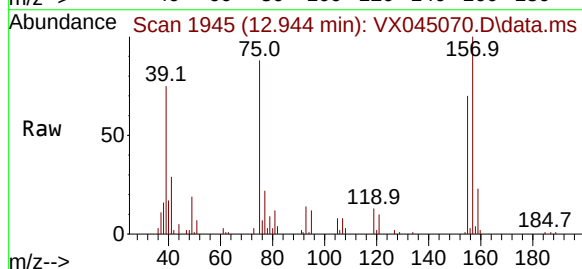
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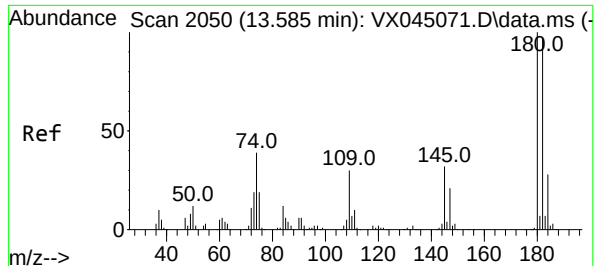
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 22.119 ug/l
RT: 12.944 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

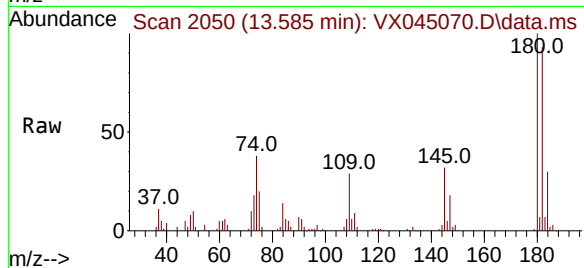
Tgt Ion: 75 Resp: 7987
Ion Ratio Lower Upper
75 100
155 78.7 39.6 118.7
157 103.3 51.1 153.4





#93
1,2,4-Trichlorobenzene
Concen: 19.617 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

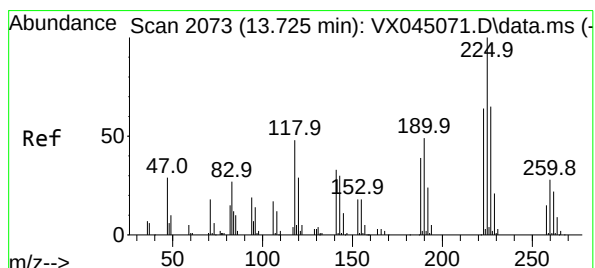
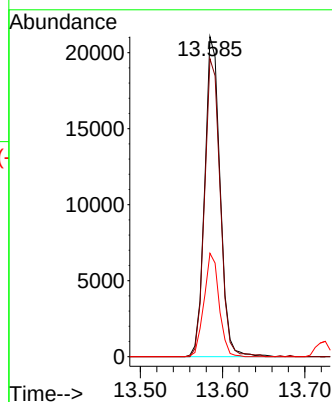
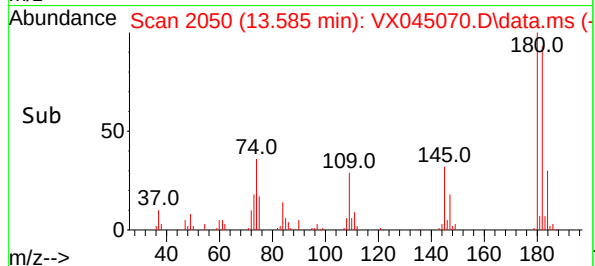
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion:180 Resp: 27424
Ion Ratio Lower Upper
180 100
182 93.9 47.3 141.9
145 31.5 16.3 48.9

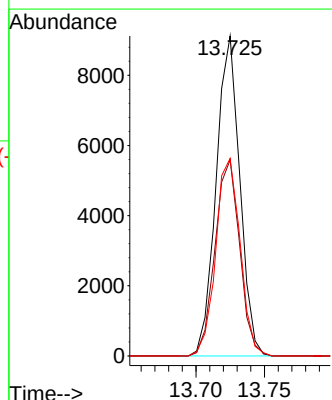
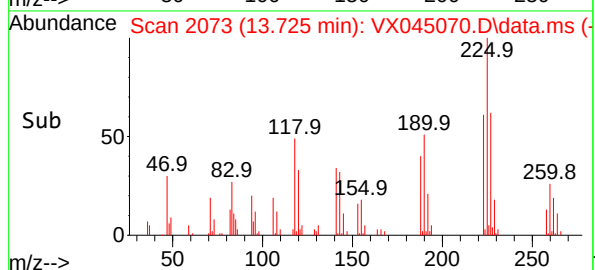
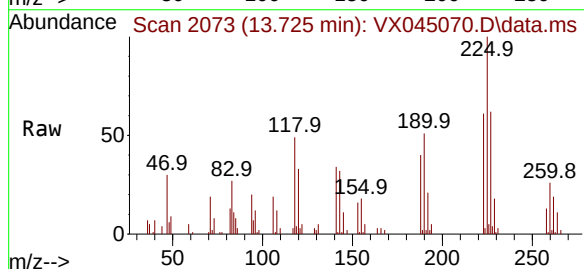
Manual Integrations
APPROVED

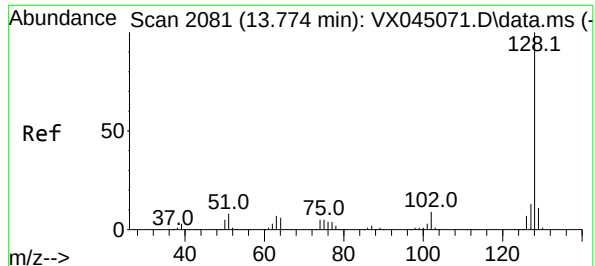
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#94
Hexachlorobutadiene
Concen: 19.616 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

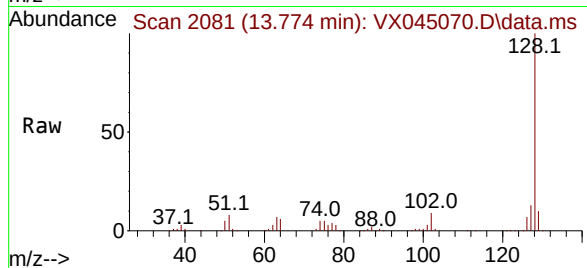
Tgt Ion:225 Resp: 10934
Ion Ratio Lower Upper
225 100
223 63.7 31.9 95.7
227 63.7 31.4 94.0





#95
Naphthalene
Concen: 21.279 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

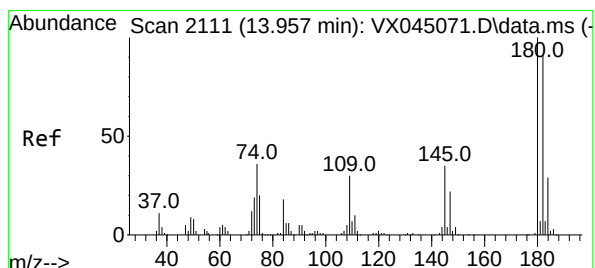
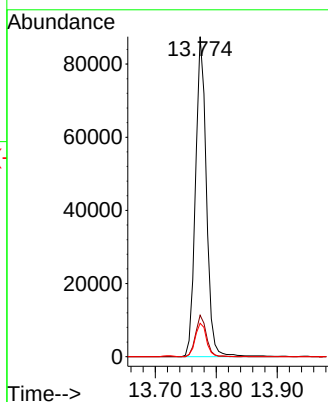
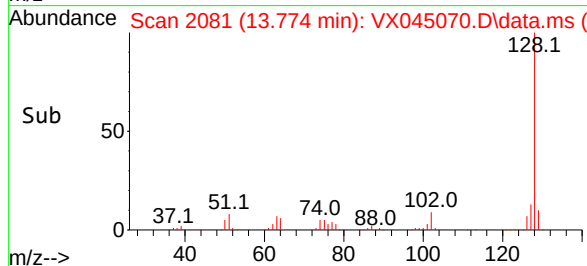
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:128 Resp: 108350
Ion Ratio Lower Upper
128 100
127 12.7 10.3 15.5
129 10.8 8.7 13.1

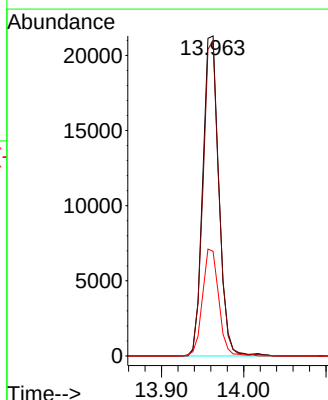
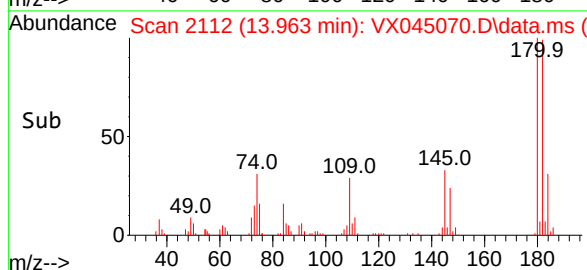
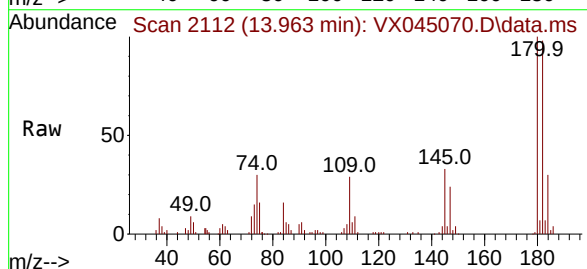
Manual Integrations
APPROVED

Reviewed By :John Carbone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.432 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:180 Resp: 28937
Ion Ratio Lower Upper
180 100
182 97.0 47.5 142.6
145 33.7 17.0 50.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
 Data File : VX045071.D
 Acq On : 28 Feb 2025 03:00
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/28/2025
 Supervised By : Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 05:34:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 05:28:02 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	103235	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	186358	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	162079	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	71264	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	78159	51.250	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.500%			
35) Dibromofluoromethane	5.385	113	61323	50.346	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.700%			
50) Toluene-d8	8.647	98	225493	49.449	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.900%			
62) 4-Bromofluorobenzene	11.079	95	74945	49.212	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.420%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	64743	45.502	ug/l	100
3) Chloromethane	1.307	50	77729	44.894	ug/l	100
4) Vinyl Chloride	1.374	62	78524	46.434	ug/l	100
5) Bromomethane	1.593	94	30169	57.066	ug/l	100
6) Chloroethane	1.660	64	38461	59.750	ug/l	100
7) Trichlorofluoromethane	1.868	101	108411	50.047	ug/l	100
8) Diethyl Ether	2.136	74	40001	50.814	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	61312	47.399	ug/l	100
10) Methyl Iodide	2.441	142	79357	47.854	ug/l	100
11) Tert butyl alcohol	2.983	59	69139	247.496	ug/l	100
12) 1,1-Dichloroethene	2.307	96	64327	48.434	ug/l	100
13) Acrolein	2.233	56	89603	296.189	ug/l	100
14) Allyl chloride	2.654	41	114313	47.875	ug/l	100
15) Acrylonitrile	3.062	53	211455	278.519	ug/l	100
16) Acetone	2.386	43	181429	289.130	ug/l	100
17) Carbon Disulfide	2.502	76	171353	47.419	ug/l	100
18) Methyl Acetate	2.703	43	89508	47.359	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	215043	50.642	ug/l	100
20) Methylene Chloride	2.782	84	72081	48.500	ug/l	100
21) trans-1,2-Dichloroethene	3.087	96	65093	49.832	ug/l	100
22) Diisopropyl ether	3.764	45	236563	51.816	ug/l	100
23) Vinyl Acetate	3.721	43	1018631	271.773	ug/l	100
24) 1,1-Dichloroethane	3.605	63	128235	50.270	ug/l	100
25) 2-Butanone	4.562	43	298785	295.330	ug/l	100
26) 2,2-Dichloropropane	4.471	77	61631	32.498	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	78657	49.955	ug/l	100
28) Bromochloromethane	4.898	49	62299	50.643	ug/l	100
29) Tetrahydrofuran	5.007	42	192607	287.345	ug/l	100
30) Chloroform	5.087	83	128581	51.532	ug/l	100
31) Cyclohexane	5.464	56	114333	48.836	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	105671	50.306	ug/l	100
36) 1,1-Dichloropropene	5.690	75	87338	49.861	ug/l	100
37) Ethyl Acetate	4.715	43	112892	56.641	ug/l	100
38) Carbon Tetrachloride	5.672	117	87123	50.593	ug/l	100
39) Methylcyclohexane	7.373	83	108974	48.715	ug/l	100
40) Benzene	6.031	78	278802	50.925	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
 Data File : VX045071.D
 Acq On : 28 Feb 2025 03:00
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/28/2025
 Supervised By : Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 05:34:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 05:28:02 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	63454	59.598	ug/l	100
42) 1,2-Dichloroethane	6.080	62	98340	55.428	ug/l	100
43) Isopropyl Acetate	6.342	43	173045	54.544	ug/l	100
44) Trichloroethene	7.123	130	63513	50.756	ug/l	100
45) 1,2-Dichloropropane	7.428	63	69128	50.808	ug/l	100
46) Dibromomethane	7.580	93	50143	52.757	ug/l	100
47) Bromodichloromethane	7.818	83	97729	53.153	ug/l	100
48) Methyl methacrylate	7.690	41	86231	57.256	ug/l	100
49) 1,4-Dioxane	7.659	88	35053	1095.003	ug/l	100
51) 4-Methyl-2-Pentanone	8.574	43	568737	292.570	ug/l	100
52) Toluene	8.714	92	167431	51.505	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	87373	48.078	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	99713	49.079	ug/l	100
55) 1,1,2-Trichloroethane	9.147	97	66379	52.724	ug/l	100
56) Ethyl methacrylate	9.116	69	106157	52.724	ug/l	100
57) 1,3-Dichloropropane	9.305	76	115488	52.594	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	264555	267.612	ug/l	100
59) 2-Hexanone	9.427	43	416984	297.362	ug/l	100
60) Dibromochloromethane	9.519	129	71569	53.284	ug/l	100
61) 1,2-Dibromoethane	9.604	107	66312	52.217	ug/l	100
64) Tetrachloroethene	9.269	164	52531	51.021	ug/l	100
65) Chlorobenzene	10.079	112	176922	50.853	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	57642	51.402	ug/l	100
67) Ethyl Benzene	10.189	91	316427	51.431	ug/l	100
68) m/p-Xylenes	10.299	106	234554	103.515	ug/l	100
69) o-Xylene	10.640	106	114440	50.341	ug/l	100
70) Styrene	10.653	104	191406	52.387	ug/l	100
71) Bromoform	10.799	173	44730	53.645	ug/l #	100
73) Isopropylbenzene	10.963	105	294694	51.167	ug/l	100
74) N-amyl acetate	10.842	43	140869	53.881	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.213	83	101089	50.945	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	81743m	51.421	ug/l	
77) Bromobenzene	11.195	156	66904	51.173	ug/l	100
78) n-propylbenzene	11.305	91	342399	51.546	ug/l	100
79) 2-Chlorotoluene	11.360	91	204484	50.154	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	241129	51.613	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	24135	41.172	ug/l	100
82) 4-Chlorotoluene	11.451	91	230493	51.072	ug/l	100
83) tert-Butylbenzene	11.713	119	240510	50.895	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	240719	52.326	ug/l	100
85) sec-Butylbenzene	11.890	105	300393	51.353	ug/l	100
86) p-Isopropyltoluene	12.006	119	244031	51.964	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	118879	49.747	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	120217	49.694	ug/l	100
89) n-Butylbenzene	12.329	91	214685	52.006	ug/l	100
90) Hexachloroethane	12.536	117	43086	49.188	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	118896	50.557	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	20610	56.123	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	71897	50.571	ug/l	100
94) Hexachlorobutadiene	13.725	225	27916	49.245	ug/l	100
95) Naphthalene	13.774	128	278086	53.700	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	75482	52.406	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045071.D
Acq On : 28 Feb 2025 03:00
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 05:34:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

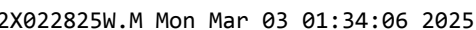
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

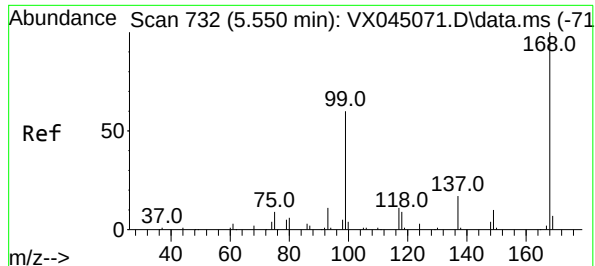
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025





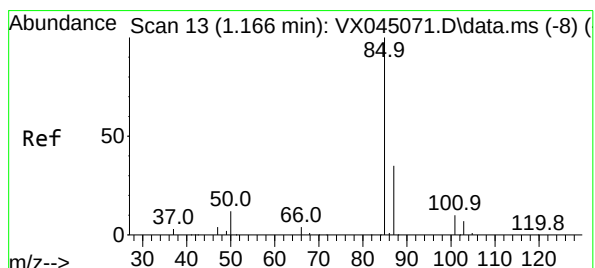
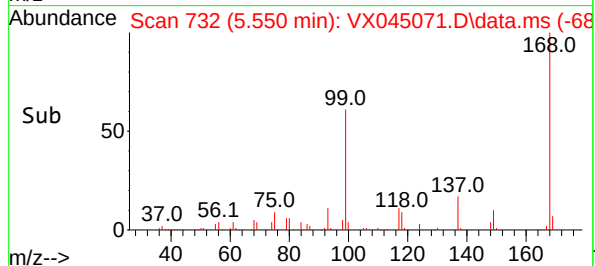
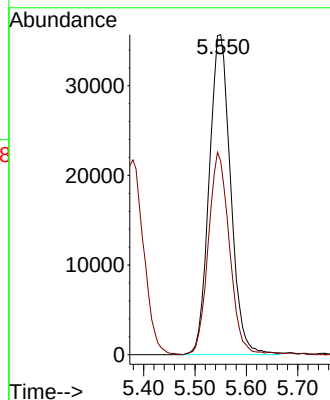
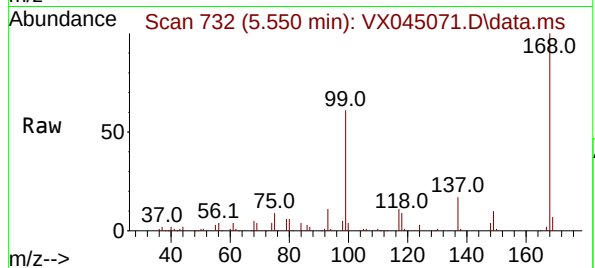
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 103235
Ion Ratio Lower Upper
168 100
99 60.3 48.2 72.4

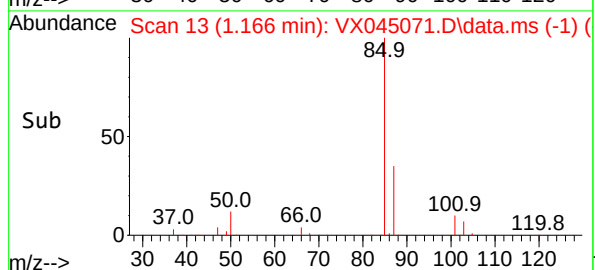
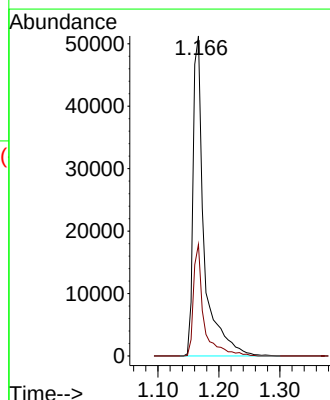
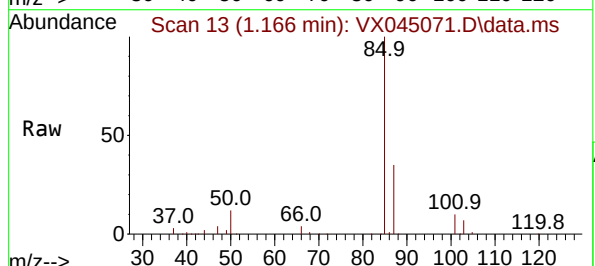
Manual Integrations
APPROVED

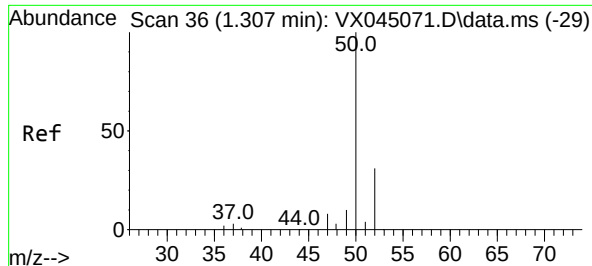
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#2
Dichlorodifluoromethane
Concen: 45.502 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 85 Resp: 64743
Ion Ratio Lower Upper
85 100
87 34.9 17.4 52.3





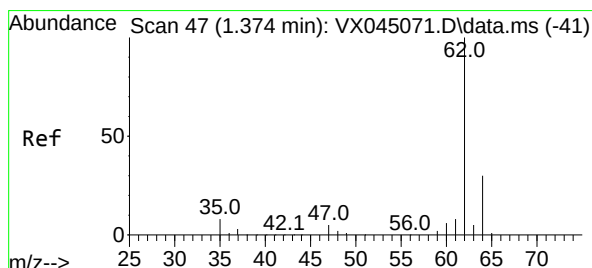
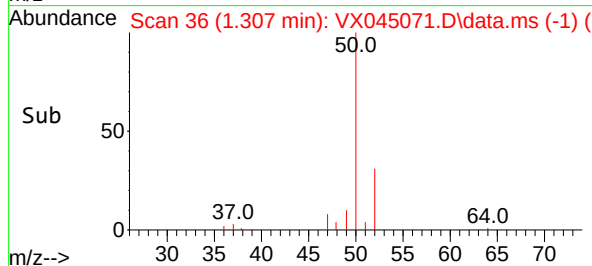
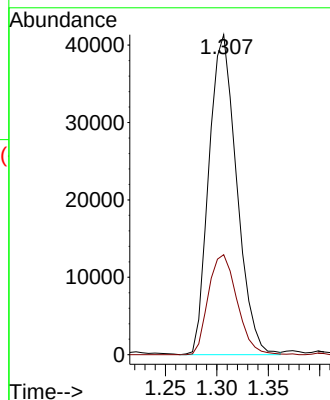
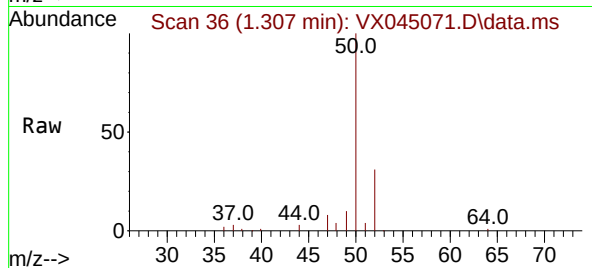
#3
Chloromethane
Concen: 44.894 ug/l
RT: 1.307 min Scan# 30
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 77729
Ion Ratio Lower Upper
50 100
52 31.2 25.0 37.4

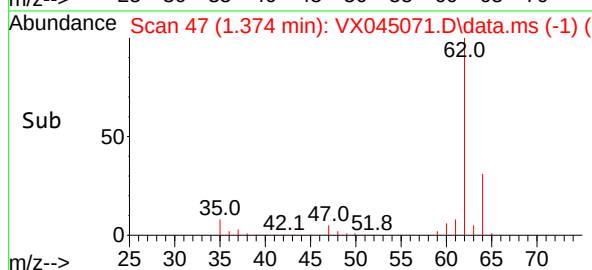
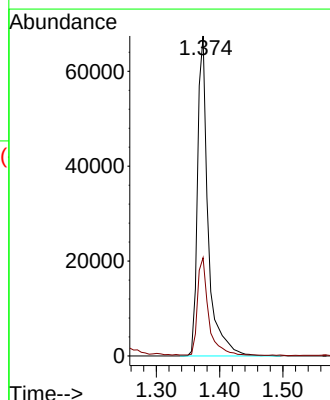
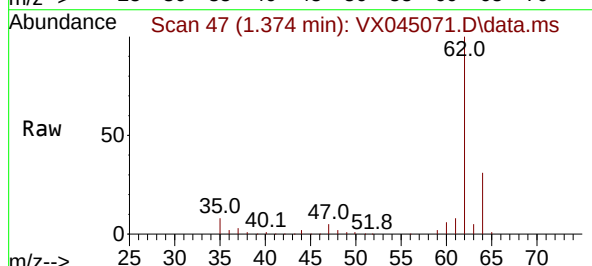
Manual Integrations
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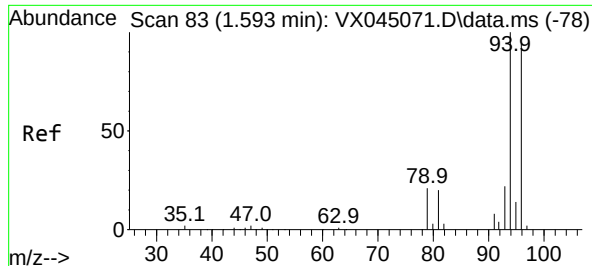
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#4
Vinyl Chloride
Concen: 46.434 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 62 Resp: 78524
Ion Ratio Lower Upper
62 100
64 30.4 24.3 36.5





#5

Bromomethane

Concen: 57.066 ug/l

RT: 1.593 min Scan# 83

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 94 Resp: 30169

Ion Ratio Lower Upper

94 100

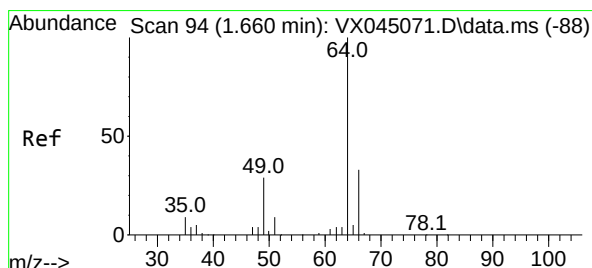
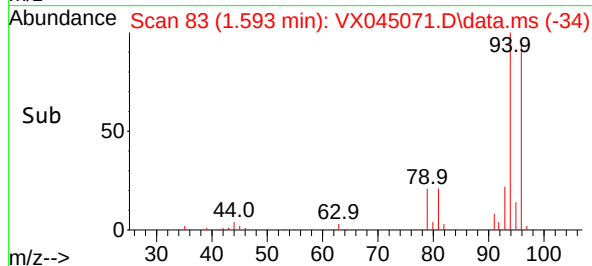
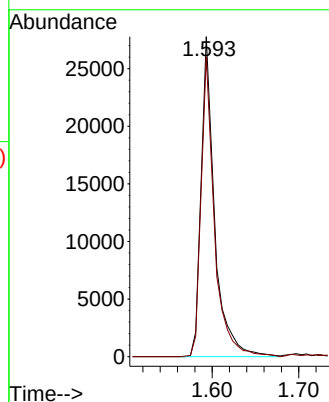
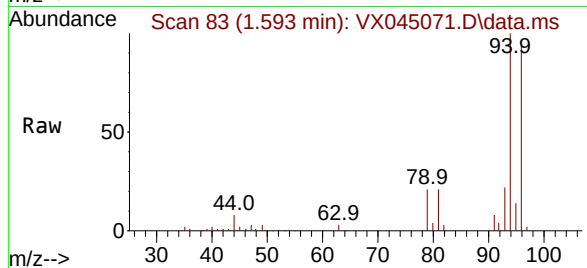
96 93.7 75.0 112.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#6

Chloroethane

Concen: 59.750 ug/l

RT: 1.660 min Scan# 94

Delta R.T. 0.000 min

Lab File: VX045071.D

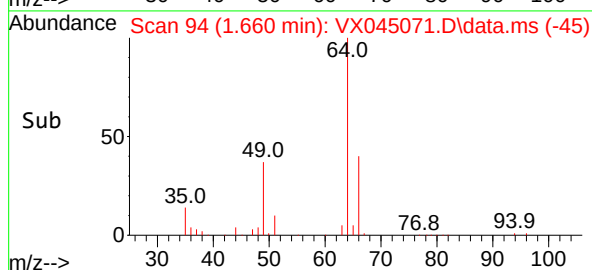
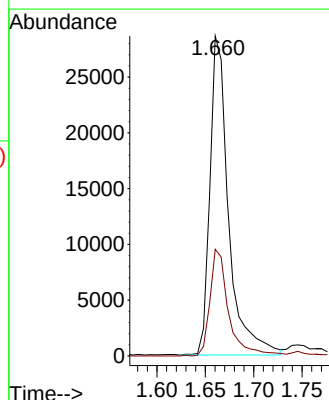
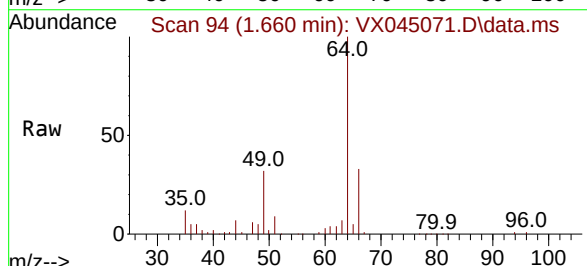
Acq: 28 Feb 2025 03:00

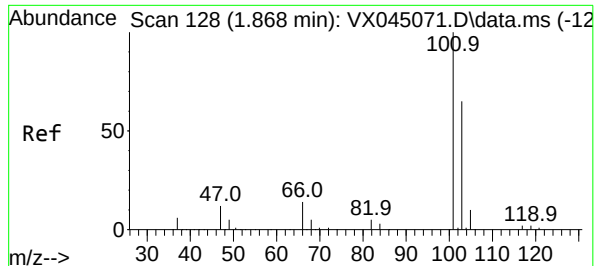
Tgt Ion: 64 Resp: 38461

Ion Ratio Lower Upper

64 100

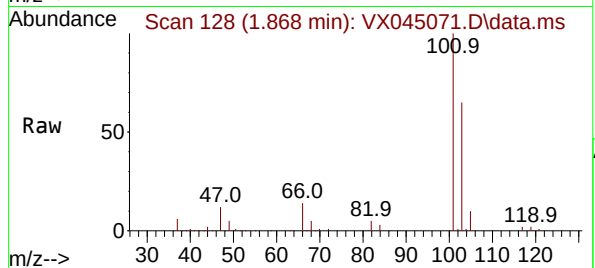
66 33.4 26.7 40.1





#7
Trichlorofluoromethane
Concen: 50.047 ug/l
RT: 1.868 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

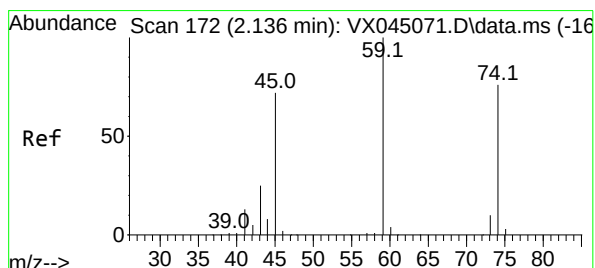
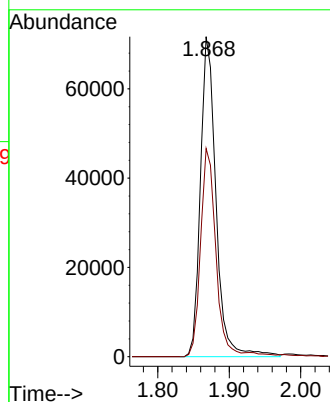
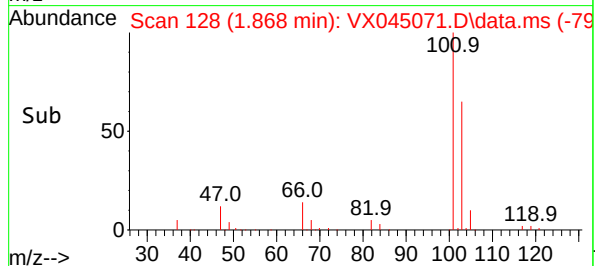
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:101 Resp: 10841
Ion Ratio Lower Upper
101 100
103 65.1 52.1 78.1

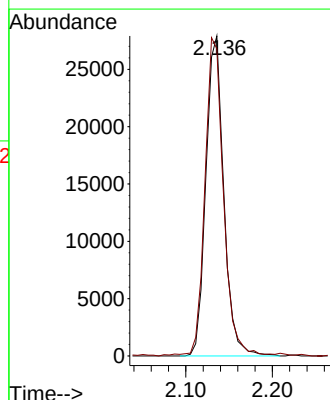
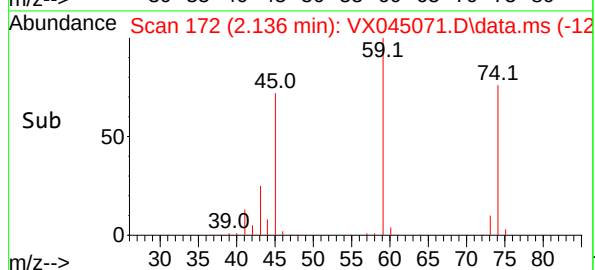
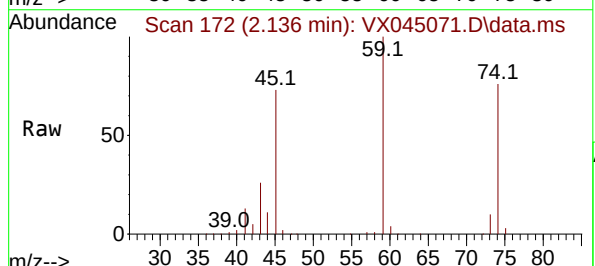
Manual Integrations
APPROVED

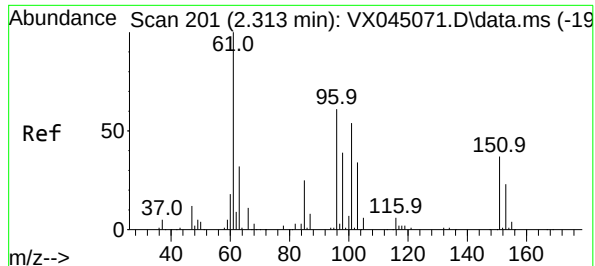
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#8
Diethyl Ether
Concen: 50.814 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 74 Resp: 40001
Ion Ratio Lower Upper
74 100
45 103.0 51.5 154.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.399 ug/l

RT: 2.313 min Scan# 201

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

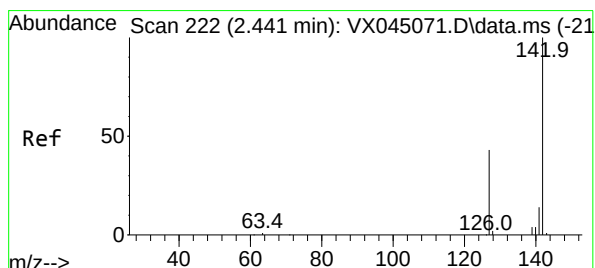
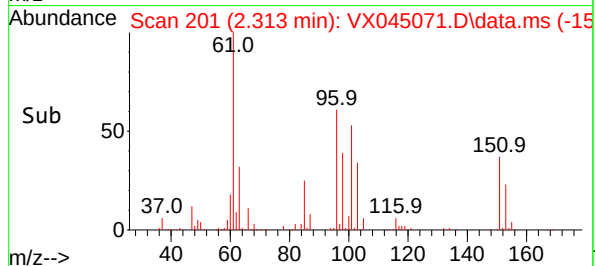
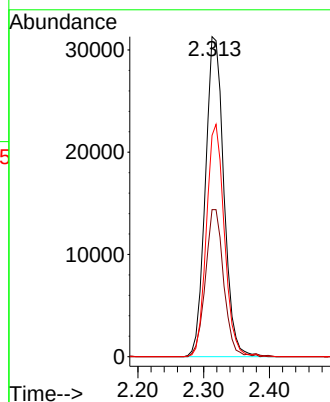
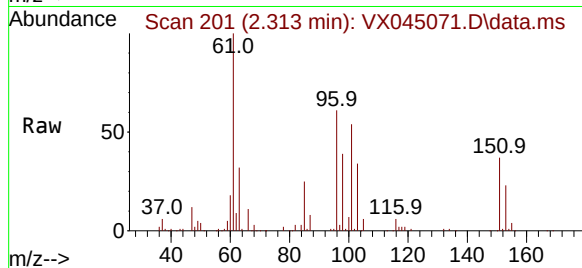
Tgt Ion:	101	Resp:	6131
Ion	Ratio	Lower	Upper
101	100		
85	45.3	36.2	54.4
151	70.5	56.4	84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#10

Methyl Iodide

Concen: 47.854 ug/l

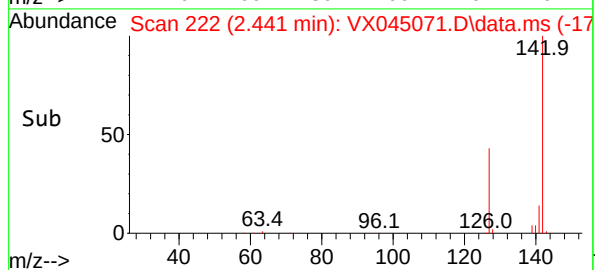
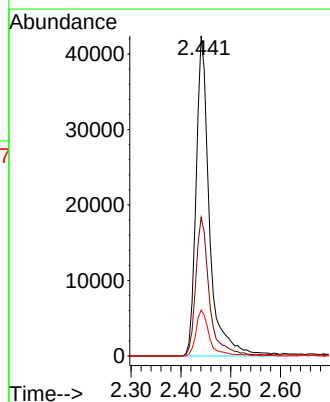
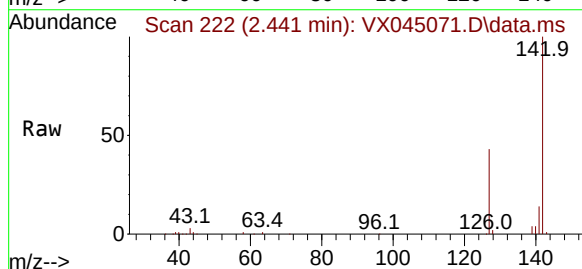
RT: 2.441 min Scan# 222

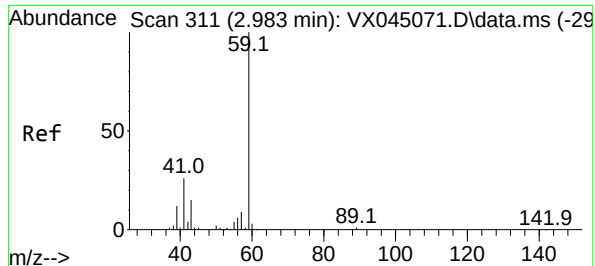
Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Tgt Ion:	142	Resp:	79357
Ion	Ratio	Lower	Upper
142	100		
127	44.3	35.4	53.2
141	14.5	11.6	17.4





#11

Tert butyl alcohol

Concen: 247.496 ug/l

RT: 2.983 min Scan# 311

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 69139

Ion Ratio Lower Upper

59 100

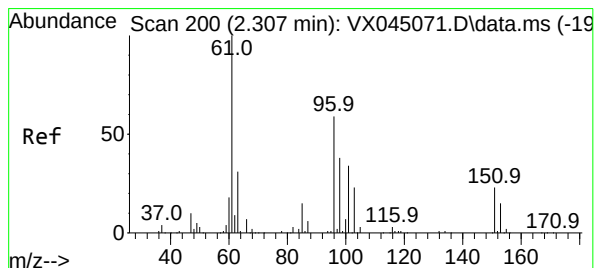
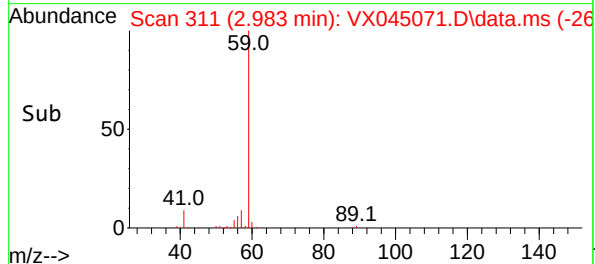
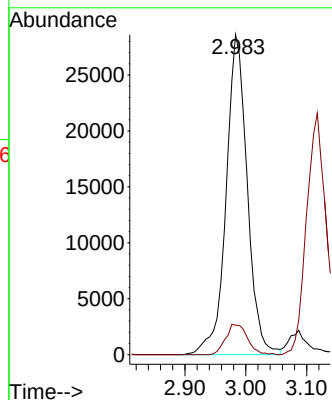
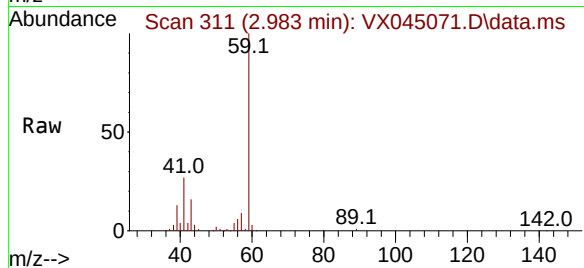
57 9.8 7.8 11.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#12

1,1-Dichloroethene

Concen: 48.434 ug/l

RT: 2.307 min Scan# 200

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

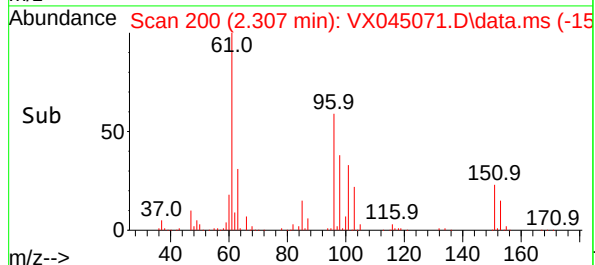
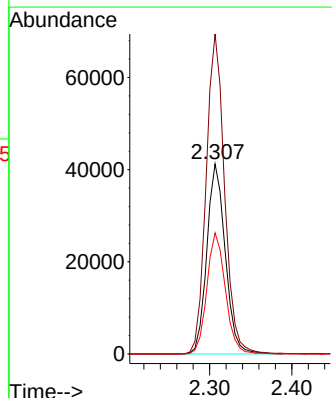
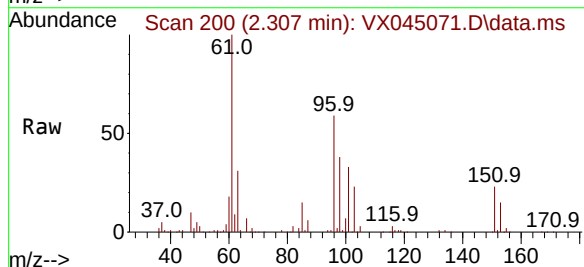
Tgt Ion: 96 Resp: 64327

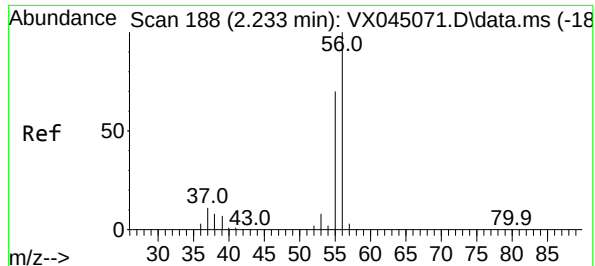
Ion Ratio Lower Upper

96 100

61 168.3 134.6 202.0

98 63.8 51.0 76.6





#13

Acrolein

Concen: 296.189 ug/l

RT: 2.233 min Scan# 188

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 8960

Ion Ratio Lower Upper

56 100

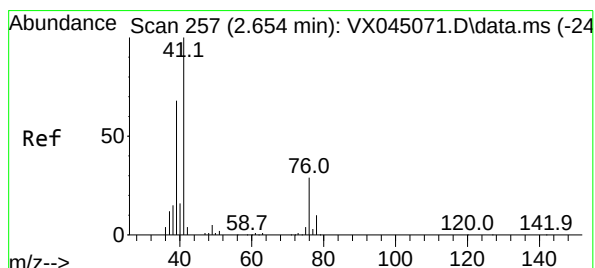
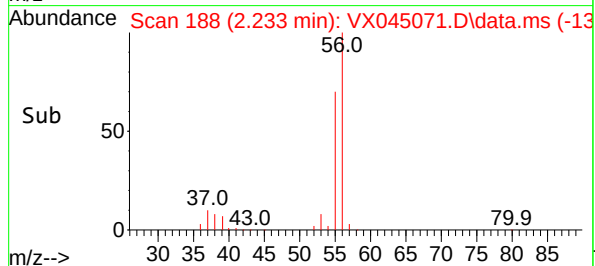
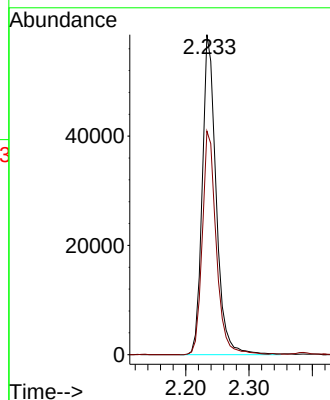
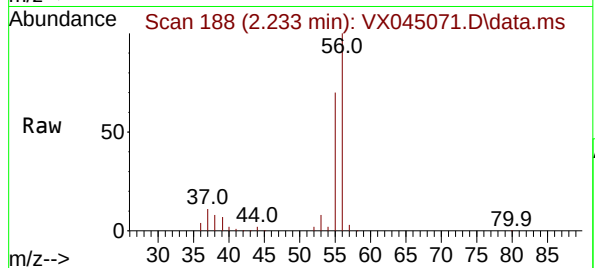
55 70.3 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#14

Allyl chloride

Concen: 47.875 ug/l

RT: 2.654 min Scan# 257

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

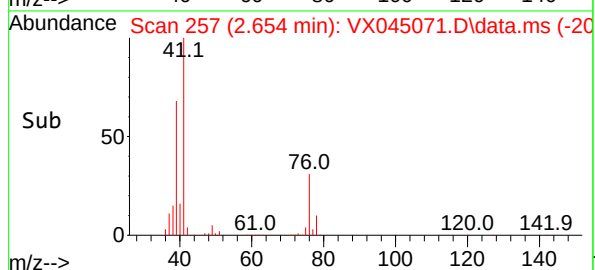
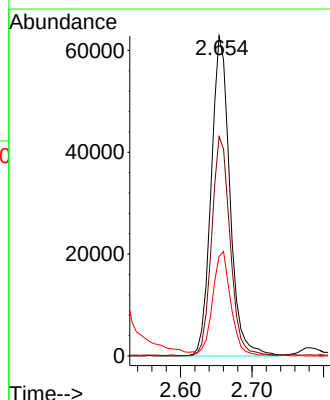
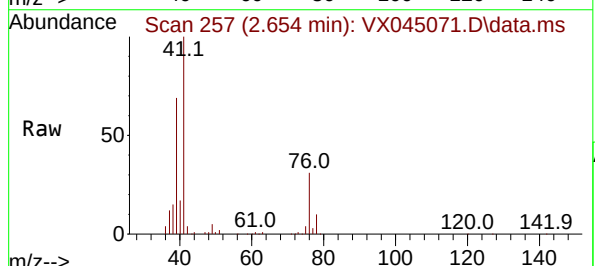
Tgt Ion: 41 Resp: 114313

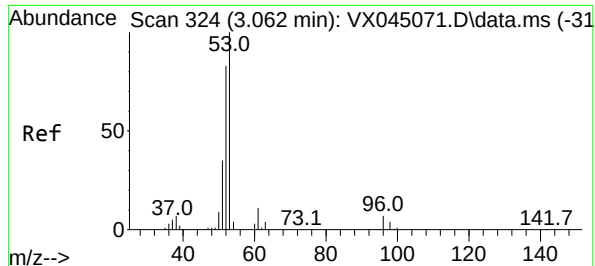
Ion Ratio Lower Upper

41 100

39 67.3 53.8 80.8

76 31.5 25.2 37.8





#15

Acrylonitrile

Concen: 278.519 ug/l

RT: 3.062 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 53 Resp: 21145

Ion Ratio Lower Upper

53 100

52 82.7 66.2 99.2

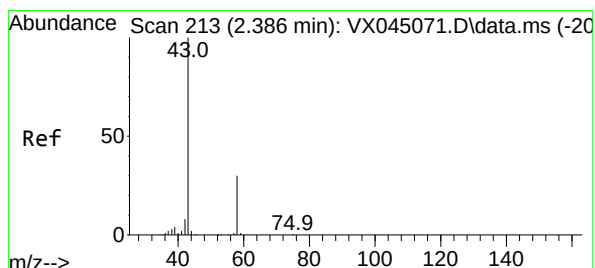
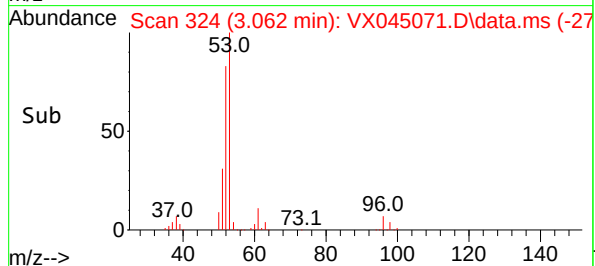
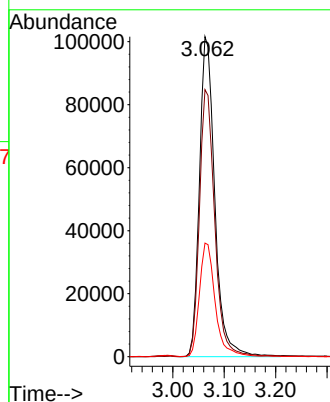
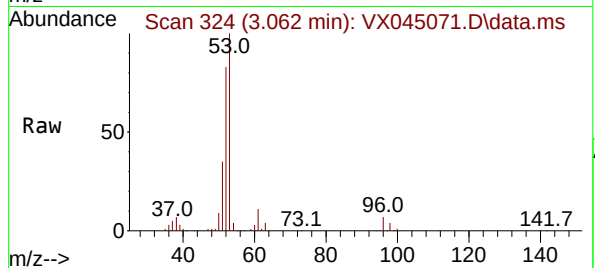
51 36.2 29.0 43.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#16

Acetone

Concen: 289.130 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.000 min

Lab File: VX045071.D

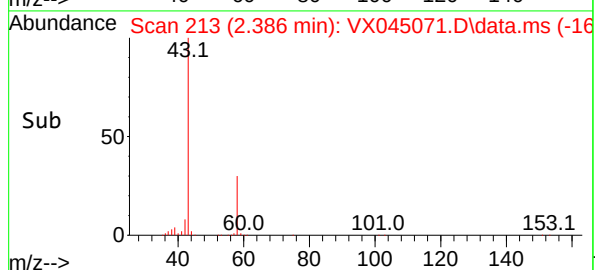
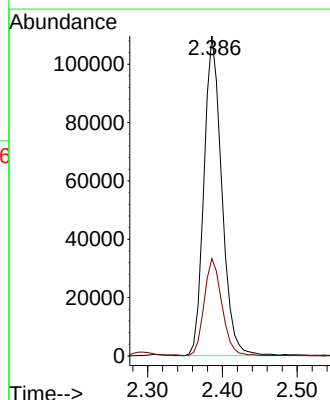
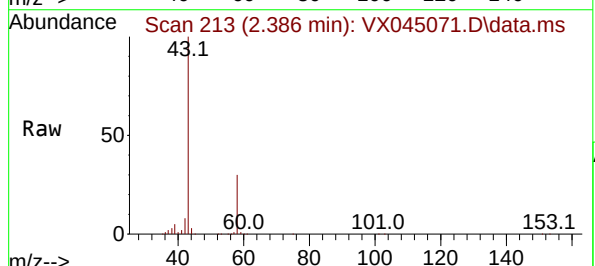
Acq: 28 Feb 2025 03:00

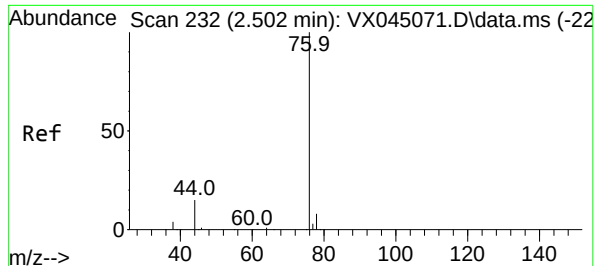
Tgt Ion: 43 Resp: 181429

Ion Ratio Lower Upper

43 100

58 30.3 24.2 36.4





#17

Carbon Disulfide

Concen: 47.419 ug/l

RT: 2.502 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Tgt Ion: 76 Resp: 17135

Ion Ratio Lower Upper

76 100

78 8.2 6.6 9.8

Instrument :

MSVOA_X

ClientSampleId :

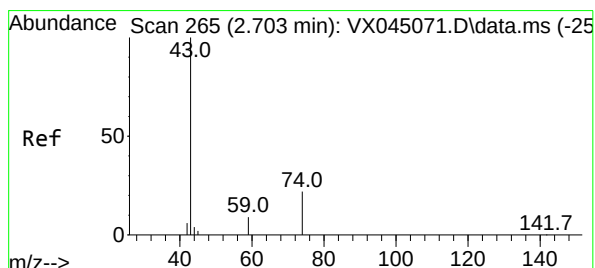
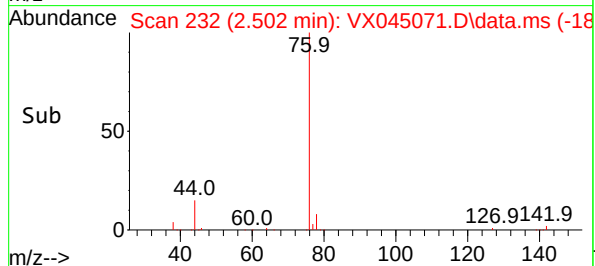
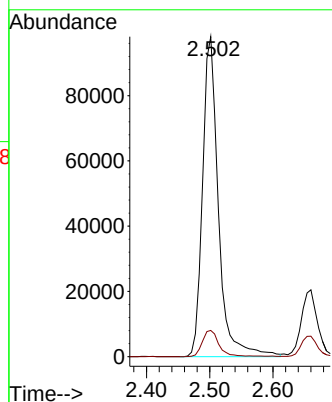
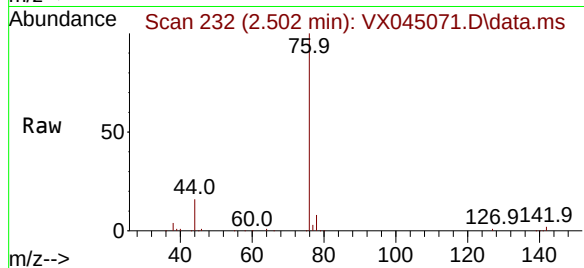
VSTDICCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#18

Methyl Acetate

Concen: 47.359 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX045071.D

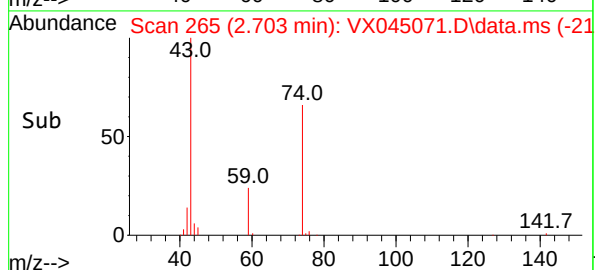
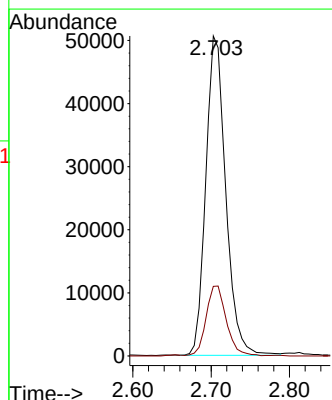
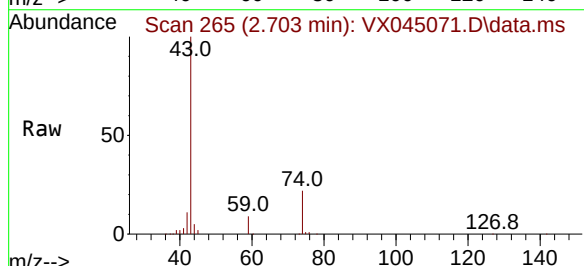
Acq: 28 Feb 2025 03:00

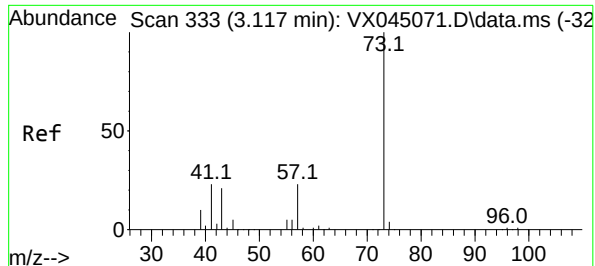
Tgt Ion: 43 Resp: 89508

Ion Ratio Lower Upper

43 100

74 21.8 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 50.642 ug/l

RT: 3.117 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 21504

Ion Ratio Lower Upper

73 100

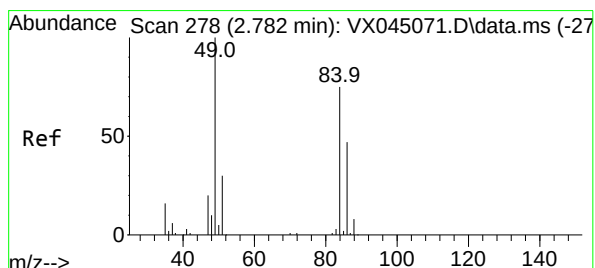
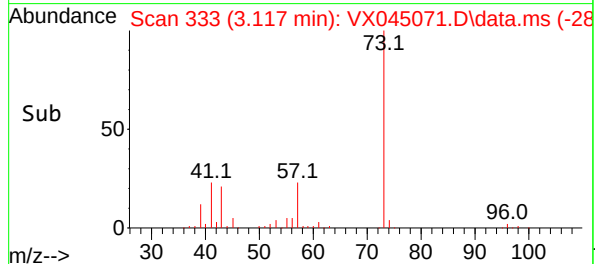
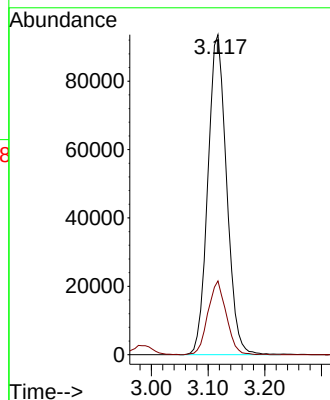
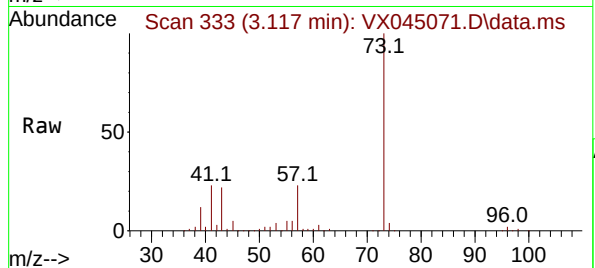
57 23.1 18.5 27.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#20

Methylene Chloride

Concen: 48.500 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Tgt Ion: 84 Resp: 72081

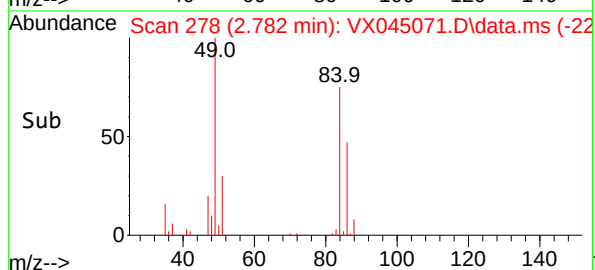
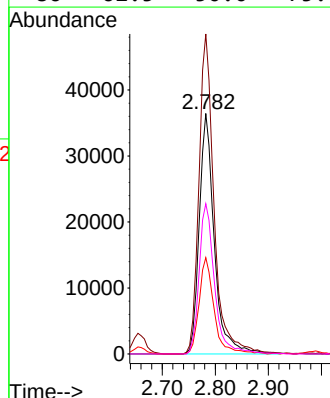
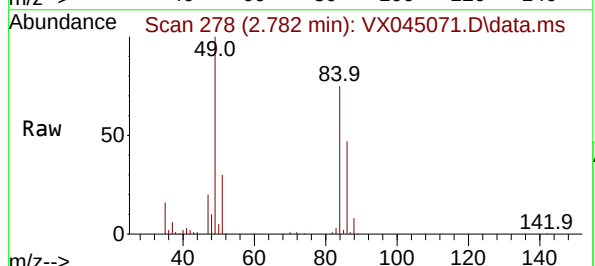
Ion Ratio Lower Upper

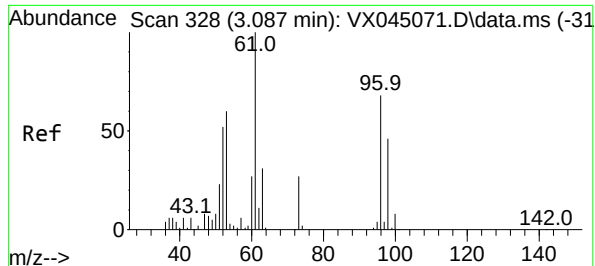
84 100

49 133.1 106.5 159.7

51 40.1 32.1 48.1

86 62.5 50.0 75.0





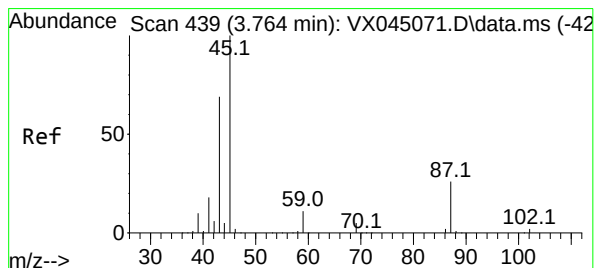
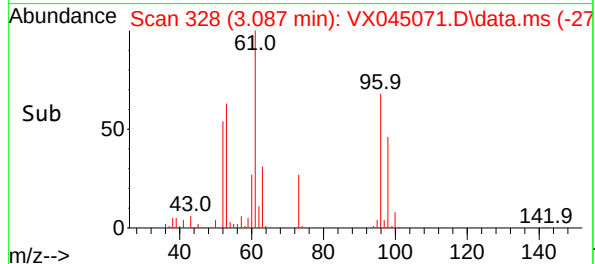
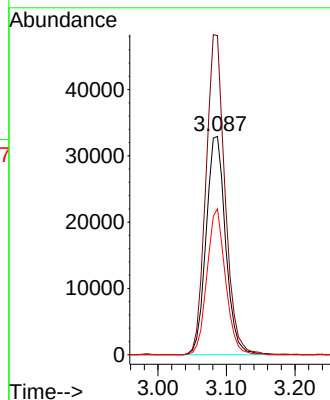
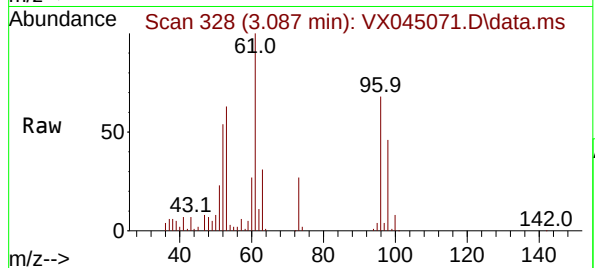
#21
trans-1,2-Dichloroethene
Concen: 49.832 ug/l
RT: 3.087 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 6509
Ion Ratio Lower Upper
96 100
61 146.2 117.0 175.4
98 66.8 53.4 80.2

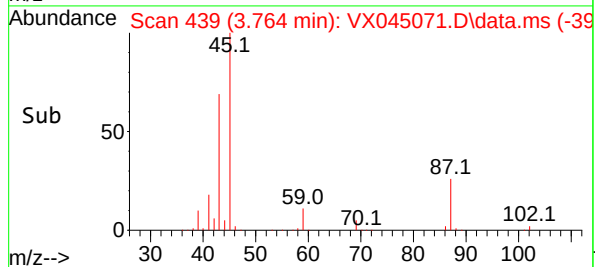
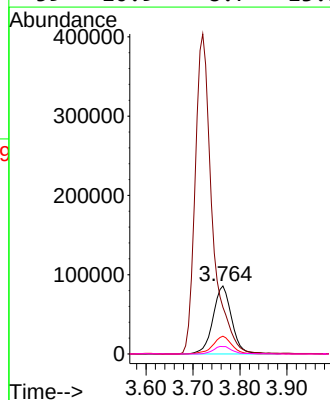
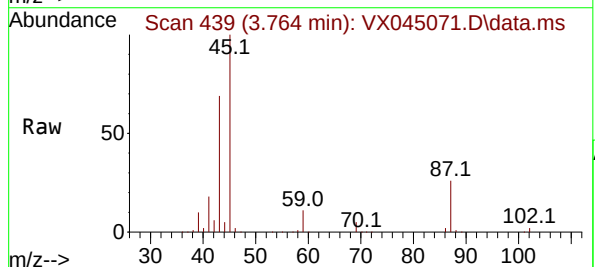
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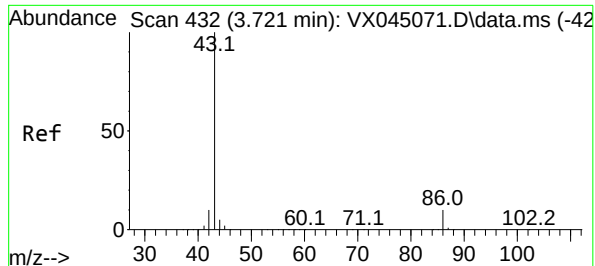
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#22
Diisopropyl ether
Concen: 51.816 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 45 Resp: 236563
Ion Ratio Lower Upper
45 100
43 68.6 54.9 82.3
87 26.2 21.0 31.4
59 10.9 8.7 13.1





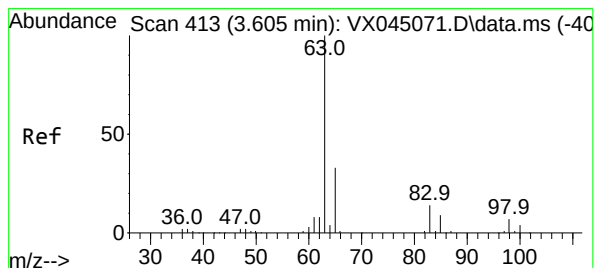
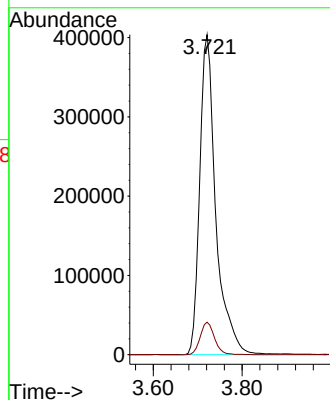
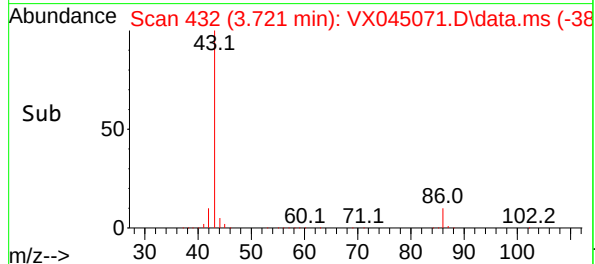
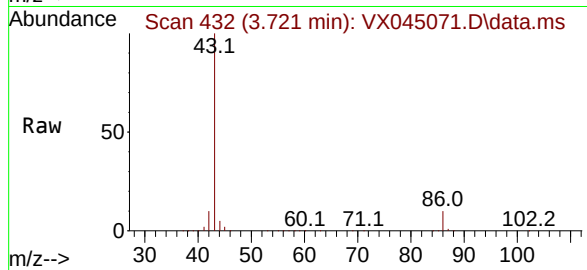
#23
Vinyl Acetate
Concen: 271.773 ug/l
RT: 3.721 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 101863
Ion Ratio Lower Upper
43 100
86 10.1 8.1 12.1

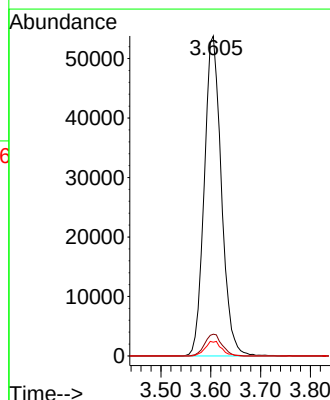
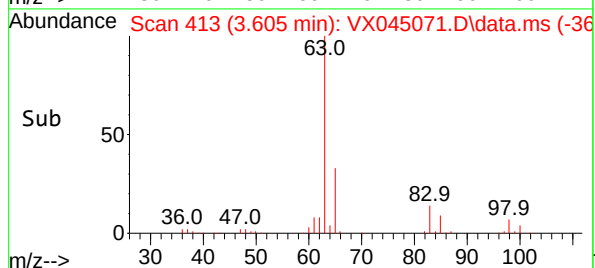
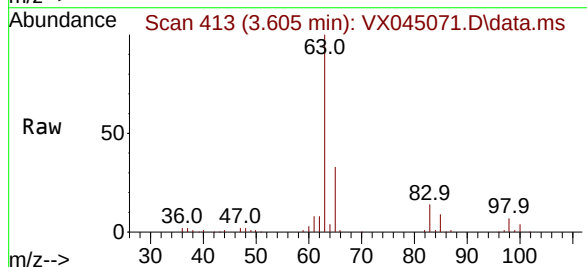
Manual Integrations
APPROVED

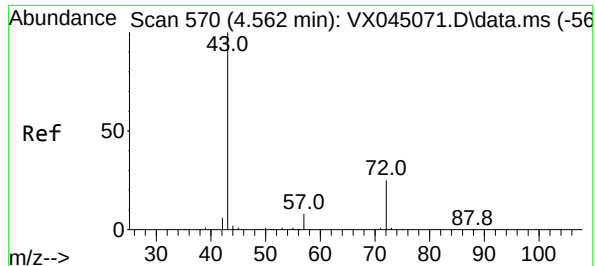
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#24
1,1-Dichloroethane
Concen: 50.270 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 63 Resp: 128235
Ion Ratio Lower Upper
63 100
98 6.8 3.4 10.2
100 4.3 2.1 6.5





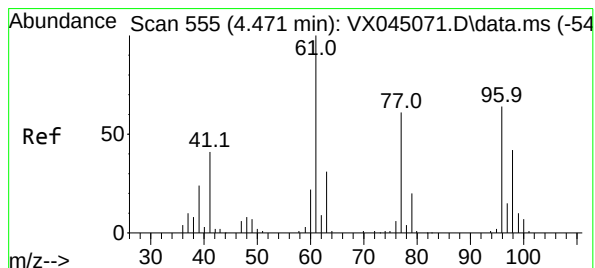
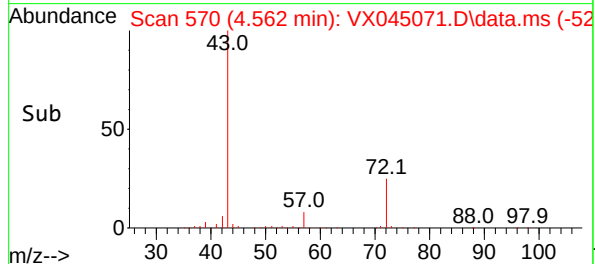
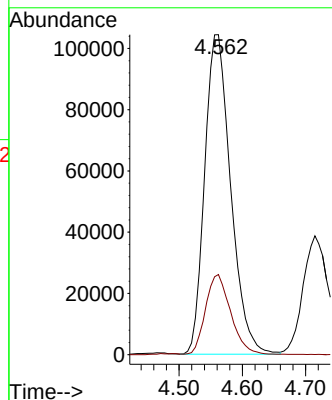
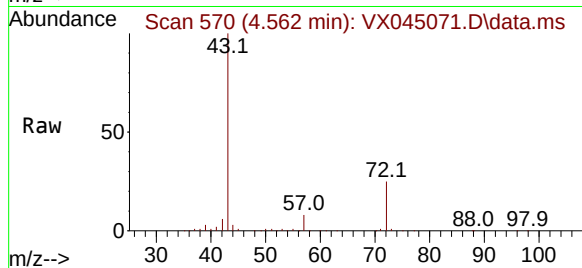
#25
2-Butanone
Concen: 295.330 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 29878
Ion Ratio Lower Upper
43 100
72 25.0 20.0 30.0

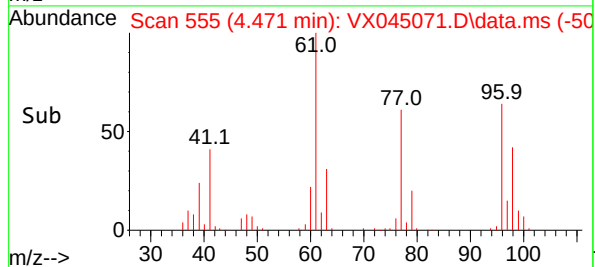
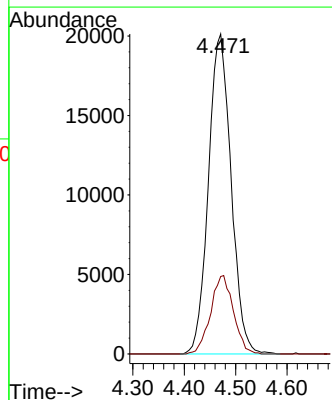
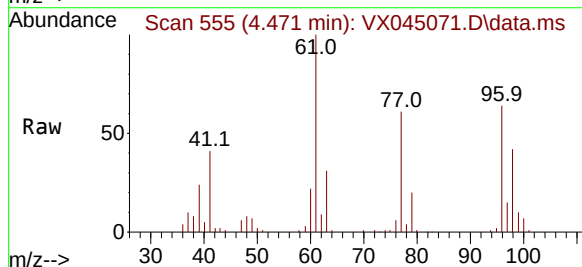
Manual Integrations
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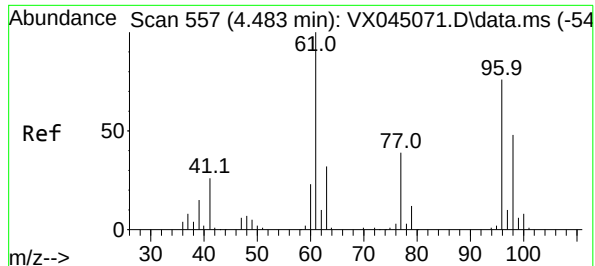
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#26
2,2-Dichloropropane
Concen: 32.498 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 77 Resp: 61631
Ion Ratio Lower Upper
77 100
97 24.7 12.4 37.0





#27

cis-1,2-Dichloroethene

Concen: 49.955 ug/l

RT: 4.483 min Scan# 557

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

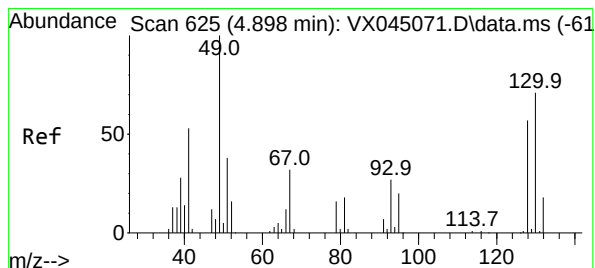
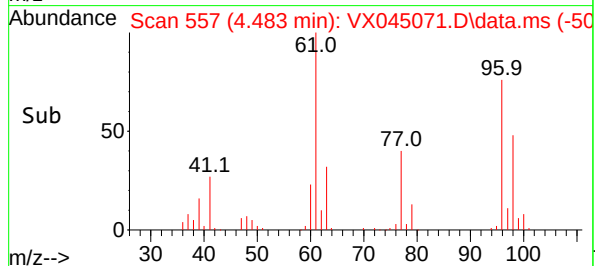
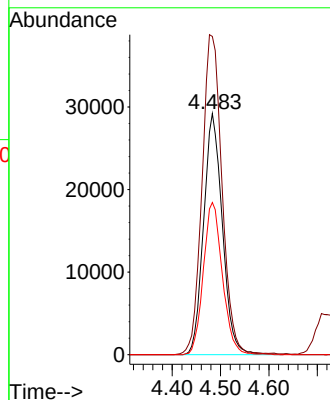
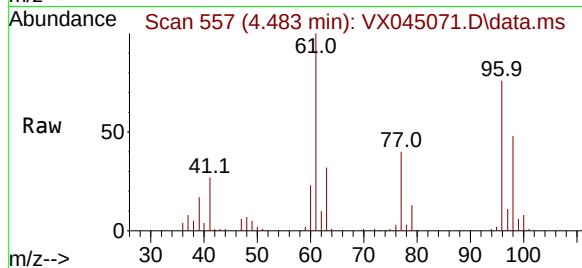
Tgt Ion:	96	Resp:	7865
Ion	Ratio	Lower	Upper
96	100		
61	141.6	0.0	283.2
98	64.0	0.0	128.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#28

Bromochloromethane

Concen: 50.643 ug/l

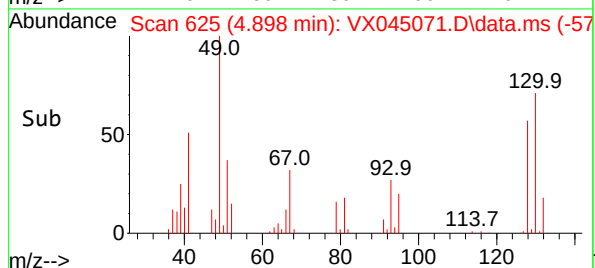
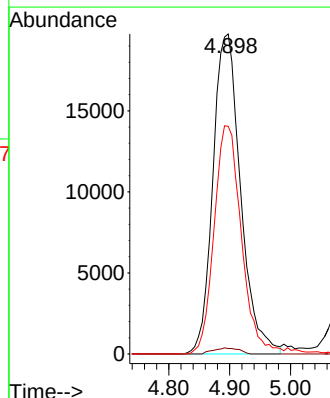
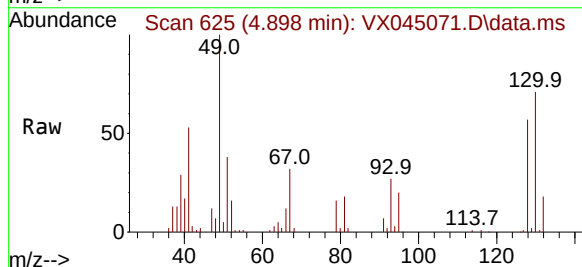
RT: 4.898 min Scan# 625

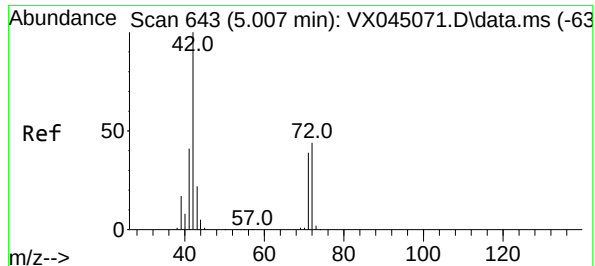
Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Tgt Ion:	49	Resp:	62299
Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.4
130	70.1	56.1	84.1





#29

Tetrahydrofuran

Concen: 287.345 ug/l

RT: 5.007 min Scan# 643

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 42 Resp: 19260

Ion Ratio Lower Upper

42 100

72 42.6 34.1 51.1

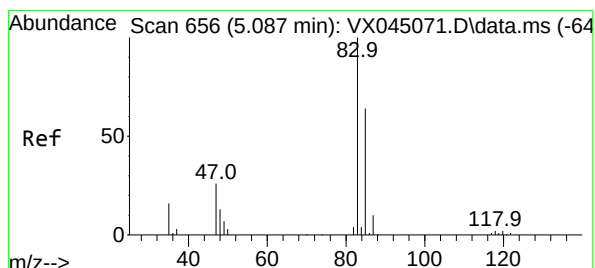
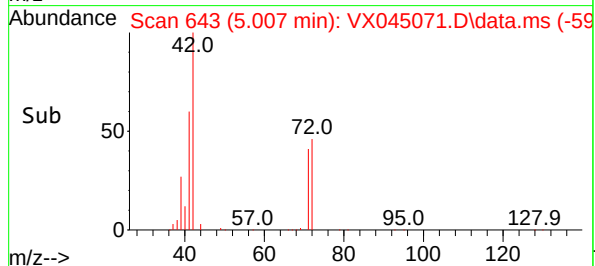
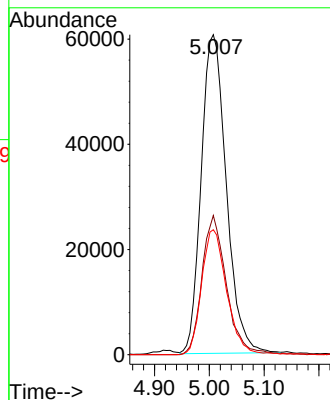
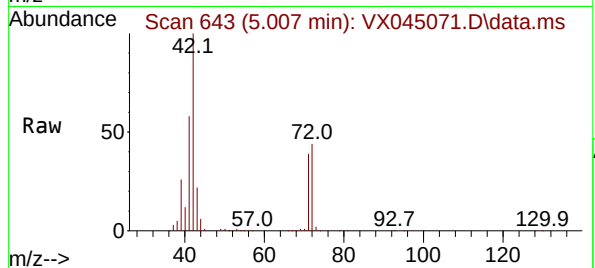
71 39.2 31.4 47.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#30

Chloroform

Concen: 51.532 ug/l

RT: 5.087 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX045071.D

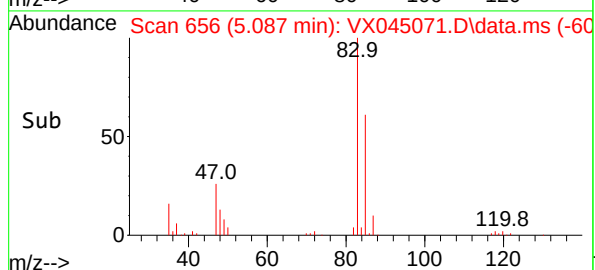
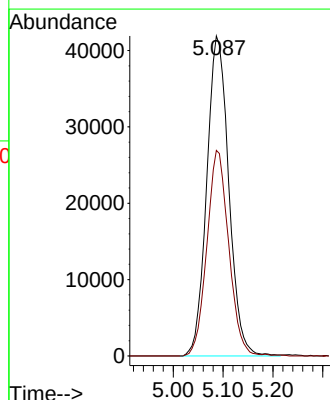
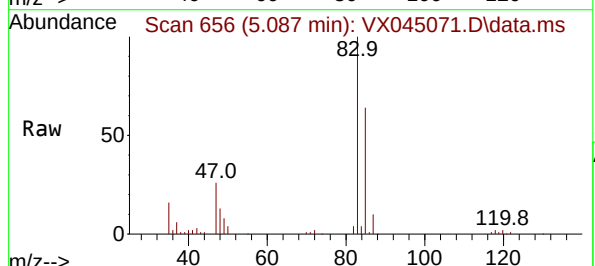
Acq: 28 Feb 2025 03:00

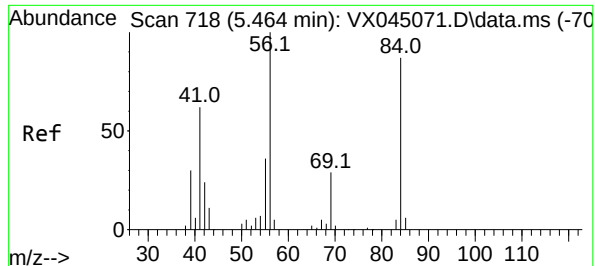
Tgt Ion: 83 Resp: 128581

Ion Ratio Lower Upper

83 100

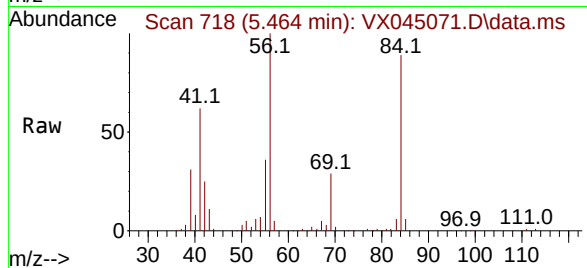
85 64.3 51.4 77.2





#31
Cyclohexane
Concen: 48.836 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

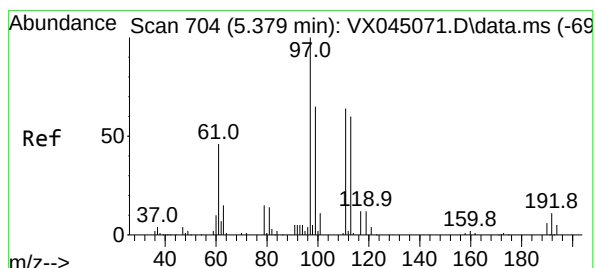
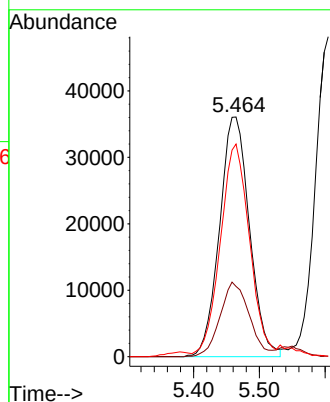
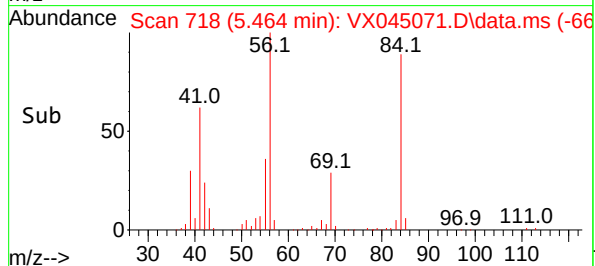
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 56 Resp: 11433
Ion Ratio Lower Upper
56 100
69 29.3 23.4 35.2
84 86.8 69.4 104.2

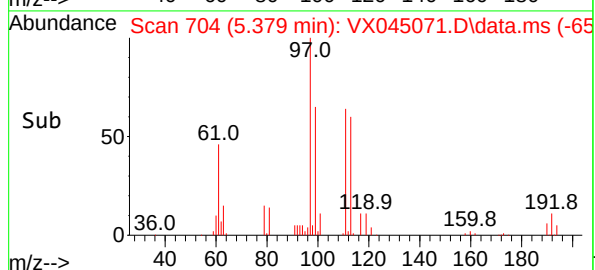
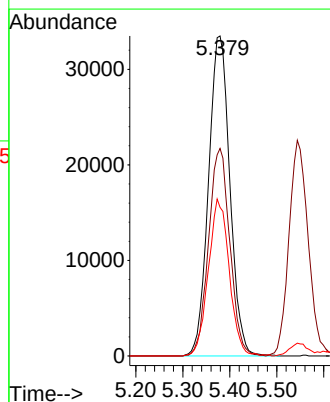
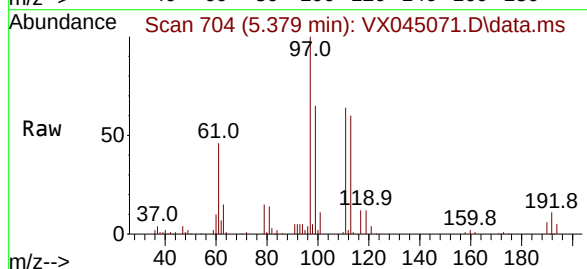
Manual Integrations
APPROVED

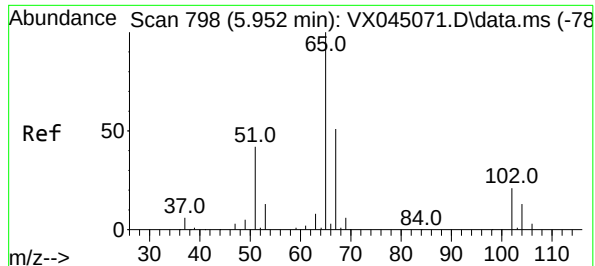
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#32
1,1,1-Trichloroethane
Concen: 50.306 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 97 Resp: 105671
Ion Ratio Lower Upper
97 100
99 64.5 51.6 77.4
61 48.0 38.4 57.6





#33

1,2-Dichloroethane-d4

Concen: 51.250 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 78159

Ion Ratio Lower Upper

65 100

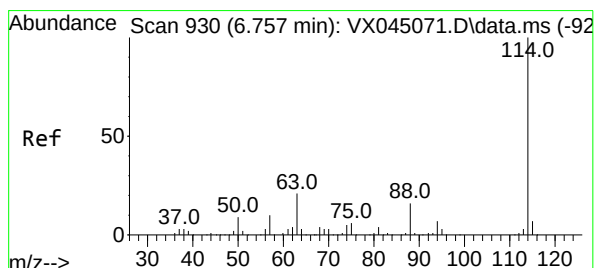
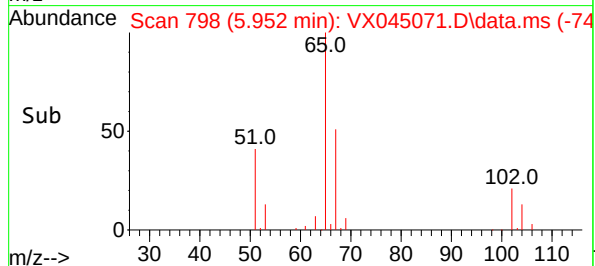
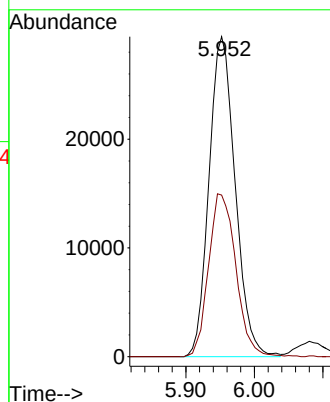
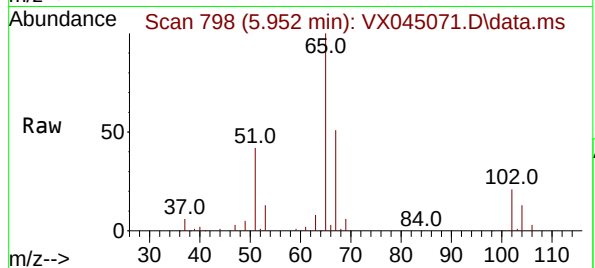
67 53.1 0.0 106.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

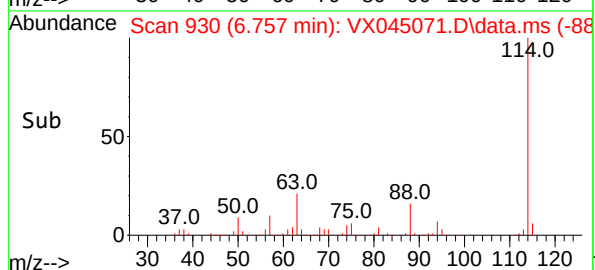
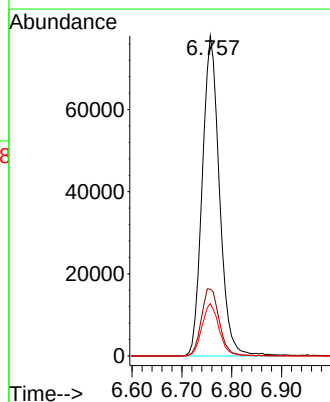
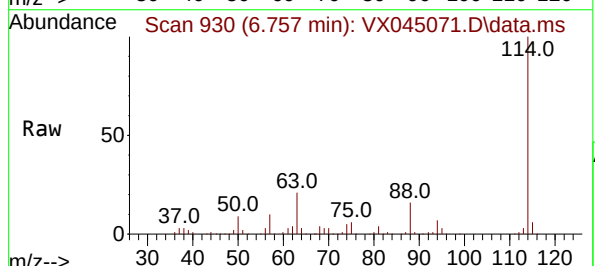
Tgt Ion:114 Resp: 186358

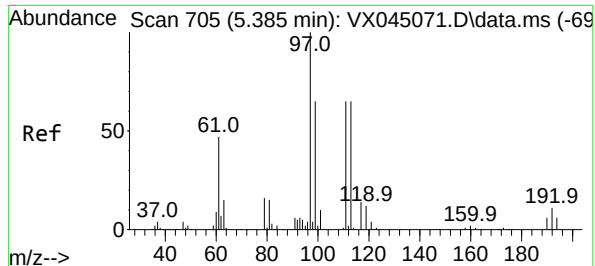
Ion Ratio Lower Upper

114 100

63 20.9 0.0 41.8

88 16.4 0.0 32.8





#35

Dibromofluoromethane

Concen: 50.346 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:113 Resp: 6132

Ion Ratio Lower Upper

113 100

111 102.2 81.8 122.6

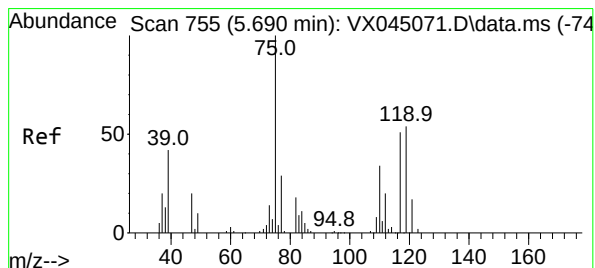
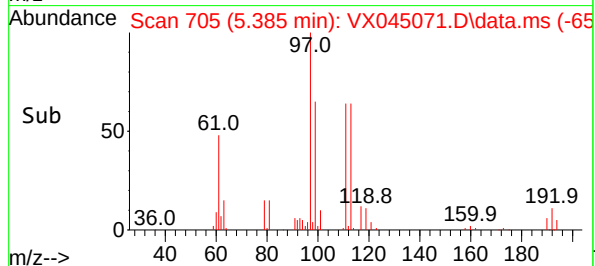
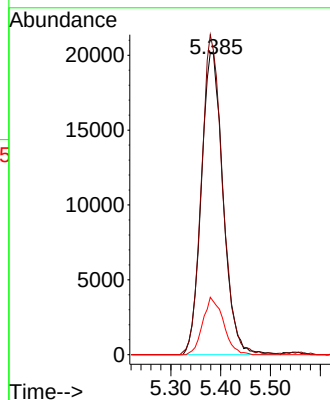
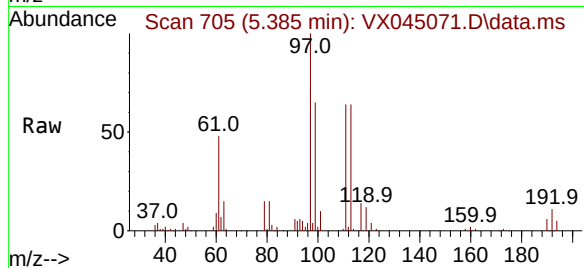
192 17.9 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#36

1,1-Dichloropropene

Concen: 49.861 ug/l

RT: 5.690 min Scan# 755

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

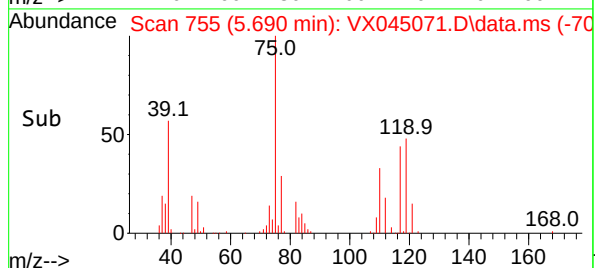
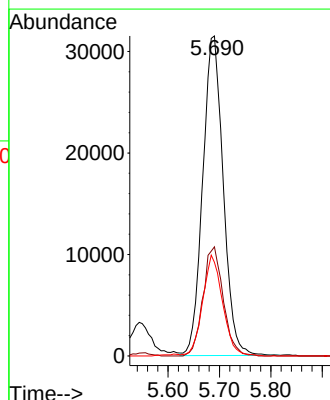
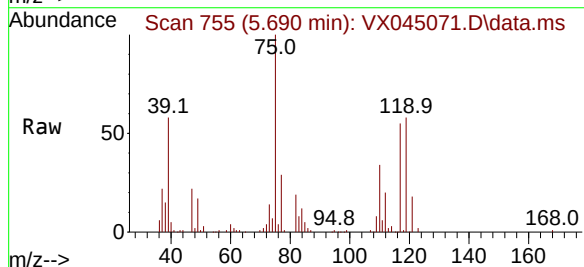
Tgt Ion: 75 Resp: 87338

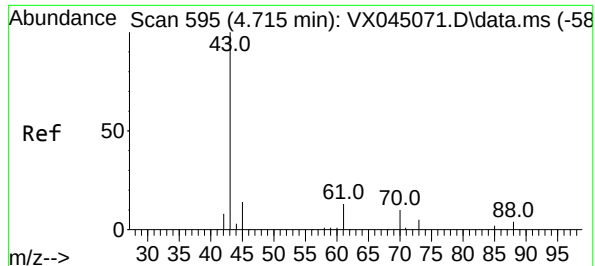
Ion Ratio Lower Upper

75 100

110 33.7 16.9 50.6

77 30.6 24.5 36.7





#37

Ethyl Acetate

Concen: 56.641 ug/l

RT: 4.715 min Scan# 595

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 112892

Ion Ratio Lower Upper

43 100

61 13.5 10.8 16.2

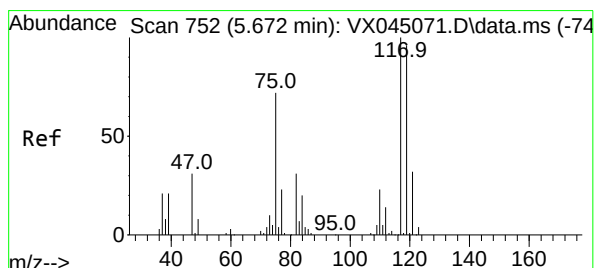
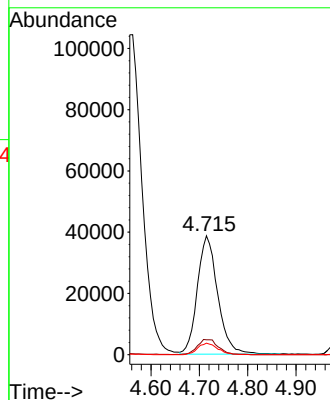
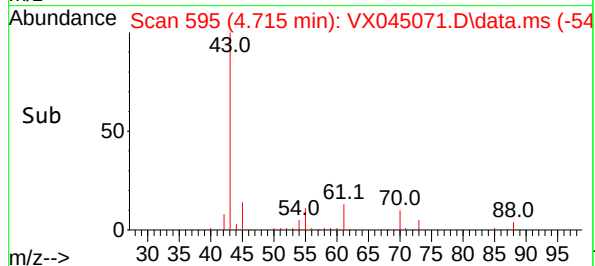
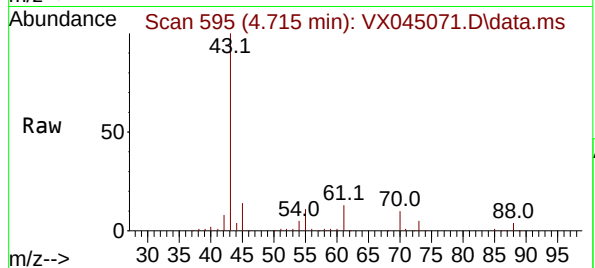
70 9.6 7.7 11.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#38

Carbon Tetrachloride

Concen: 50.593 ug/l

RT: 5.672 min Scan# 752

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

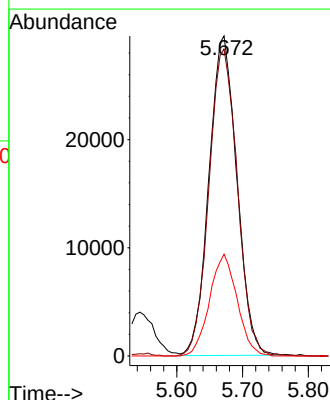
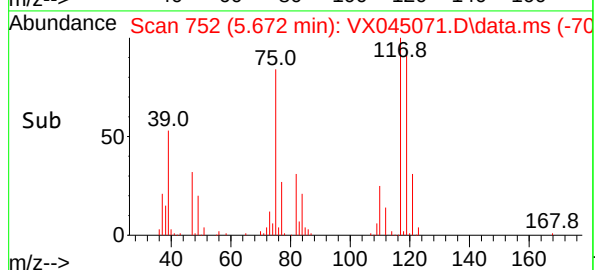
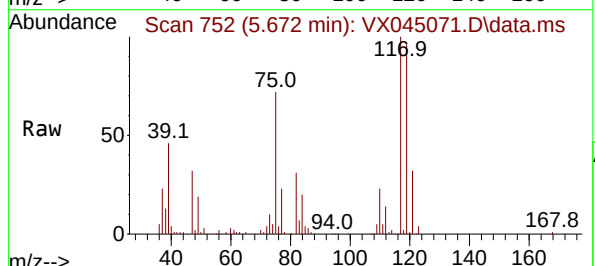
Tgt Ion:117 Resp: 87123

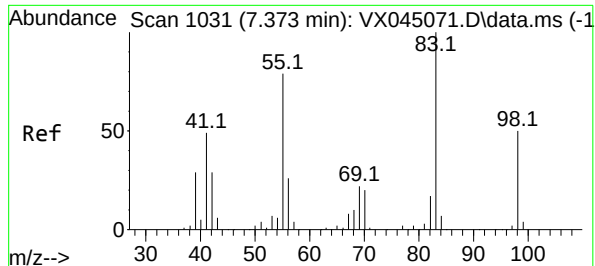
Ion Ratio Lower Upper

117 100

119 95.9 76.7 115.1

121 31.9 25.5 38.3





#39

Methylcyclohexane

Concen: 48.715 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 108974

Ion Ratio Lower Upper

83 100

55 78.7 63.0 94.4

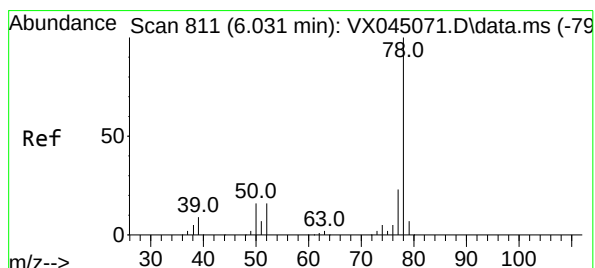
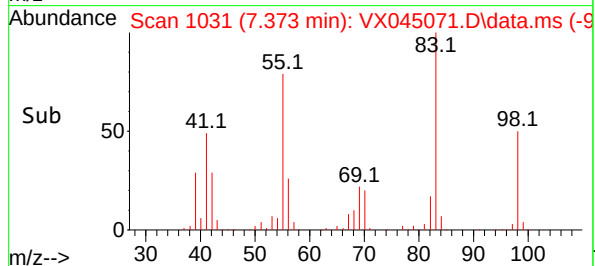
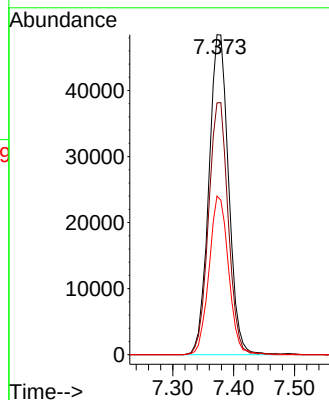
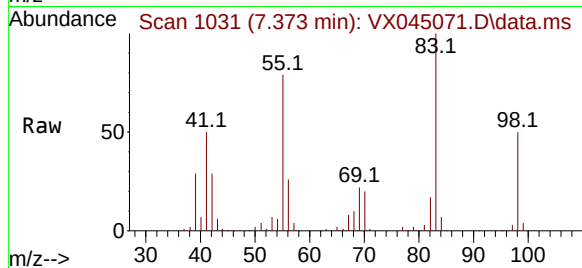
98 49.6 39.7 59.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#40

Benzene

Concen: 50.925 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX045071.D

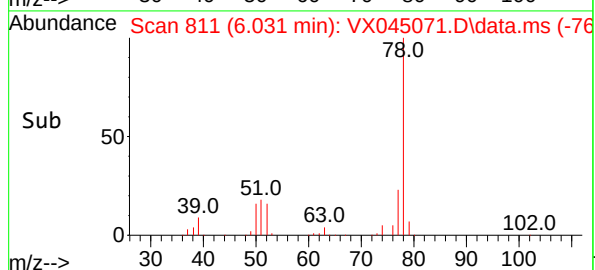
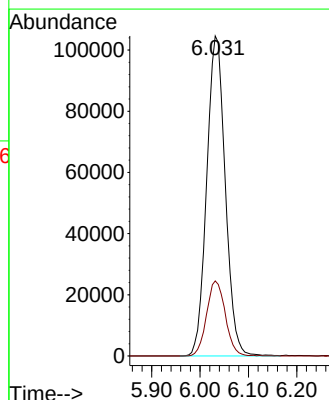
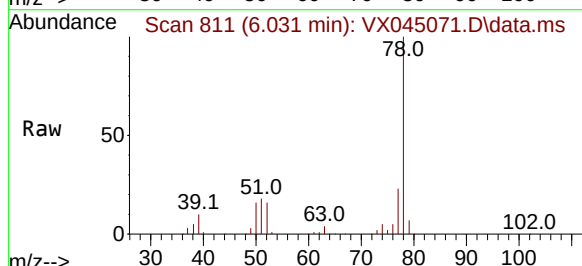
Acq: 28 Feb 2025 03:00

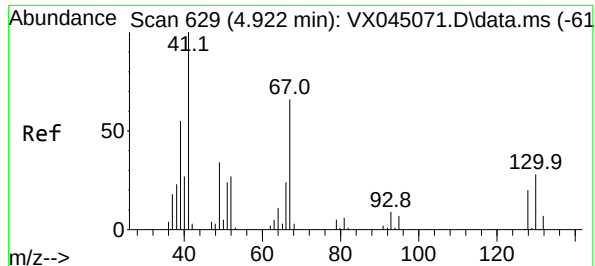
Tgt Ion: 78 Resp: 278802

Ion Ratio Lower Upper

78 100

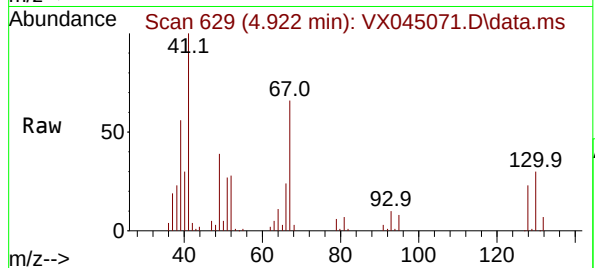
77 23.5 18.8 28.2





#41
Methacrylonitrile
Concen: 59.598 ug/l
RT: 4.922 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

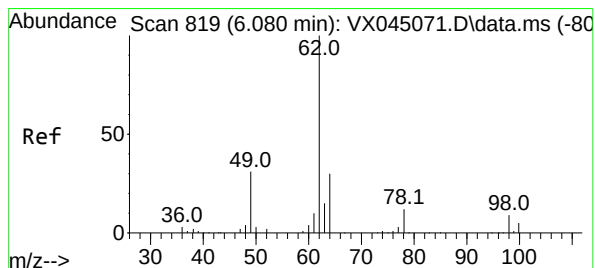
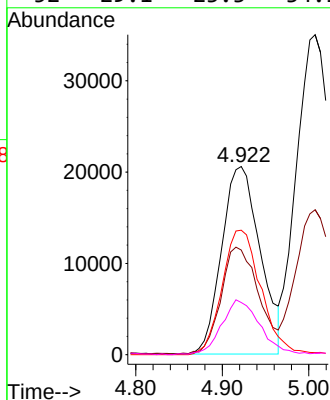
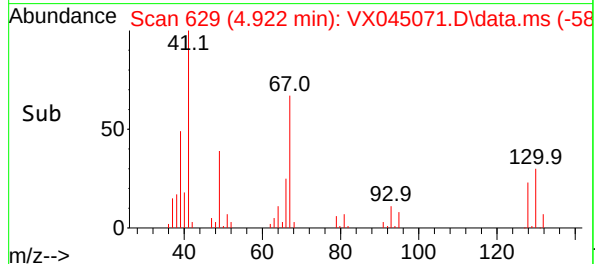
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 41 Resp: 63454
Ion Ratio Lower Upper
41 100
39 55.8 44.6 67.0
67 67.4 53.9 80.9
52 29.1 23.3 34.9

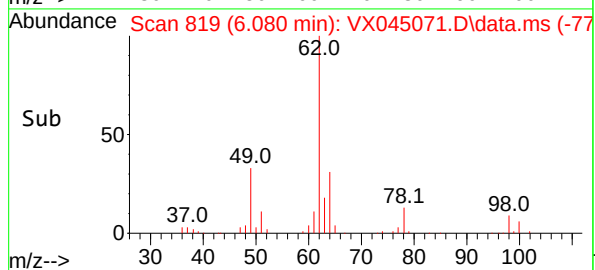
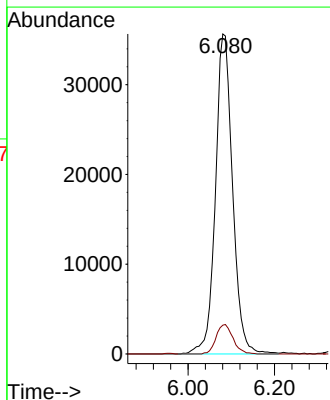
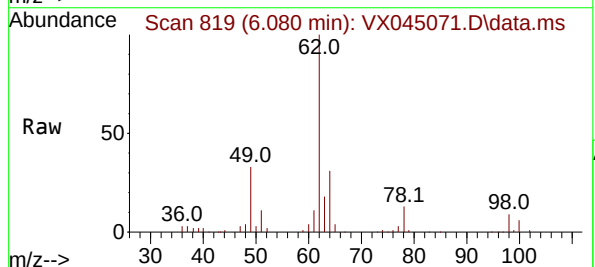
Manual Integrations
APPROVED

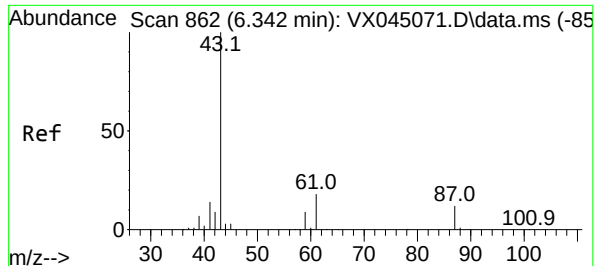
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#42
1,2-Dichloroethane
Concen: 55.428 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 62 Resp: 98340
Ion Ratio Lower Upper
62 100
98 9.1 0.0 18.2





#43

Isopropyl Acetate

Concen: 54.544 ug/l

RT: 6.342 min Scan# 80

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 17304

Ion Ratio Lower Upper

43

100

61

87

18.6 14.9 22.3

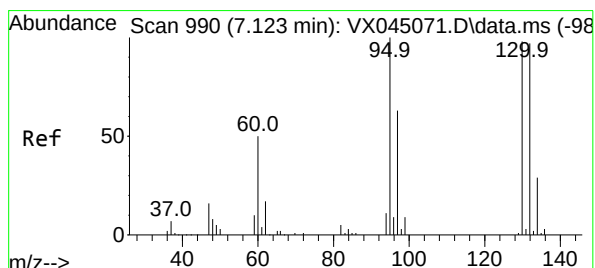
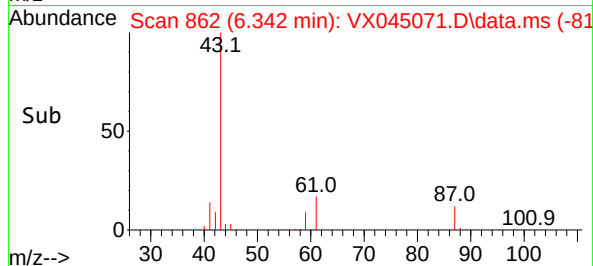
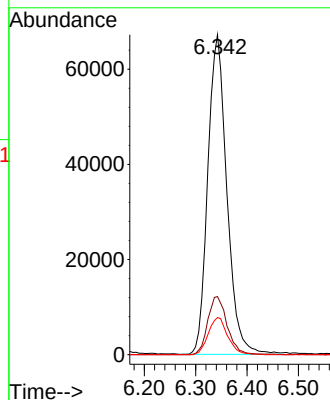
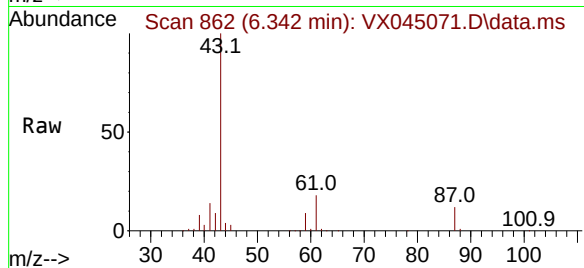
11.8 9.4 14.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#44

Trichloroethene

Concen: 50.756 ug/l

RT: 7.123 min Scan# 990

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Tgt Ion:130 Resp: 63513

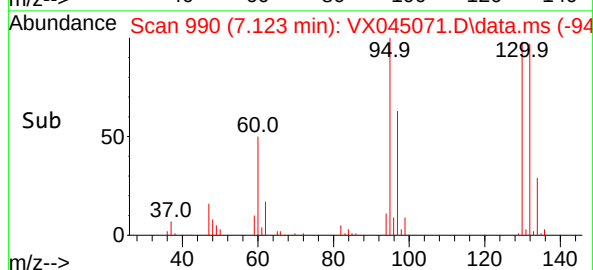
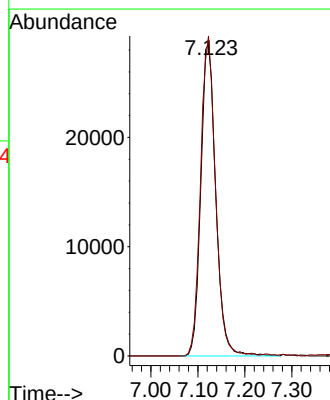
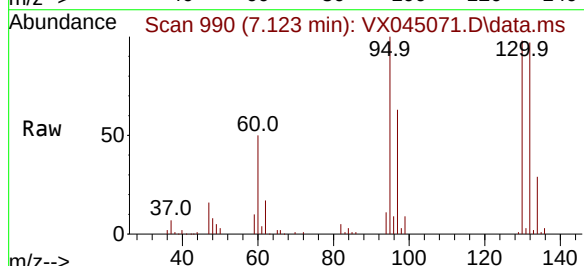
Ion Ratio Lower Upper

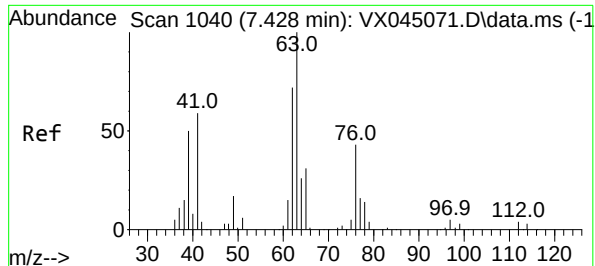
130

100

95

102.5 0.0 205.0





#45

1,2-Dichloropropane

Concen: 50.808 ug/l

RT: 7.428 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 69128

Ion Ratio Lower Upper

63 100

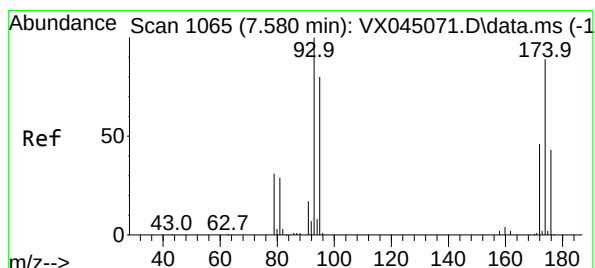
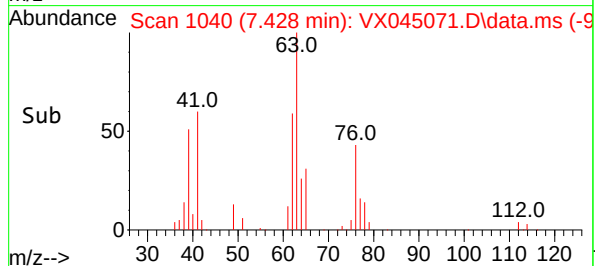
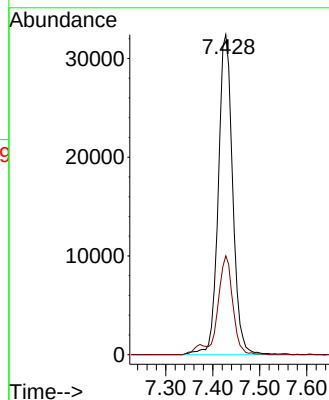
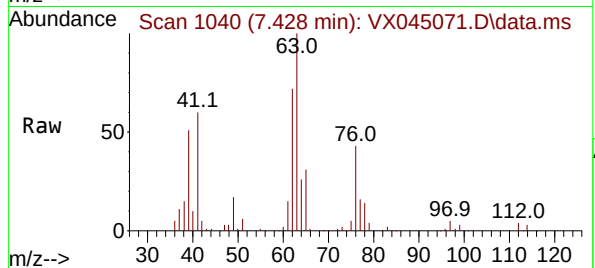
65 30.9 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#46

Dibromomethane

Concen: 52.757 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

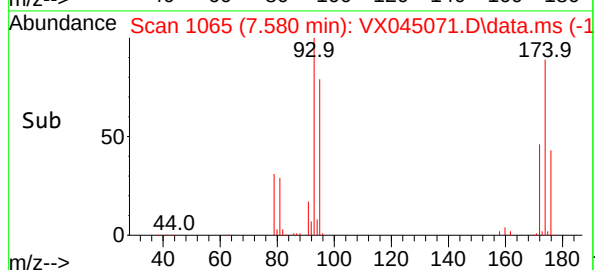
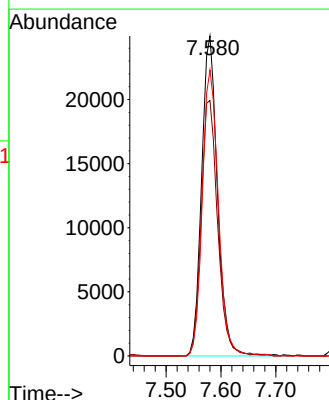
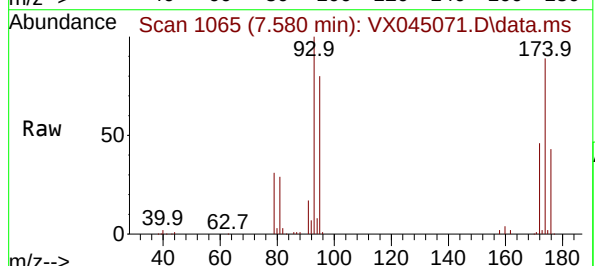
Tgt Ion: 93 Resp: 50143

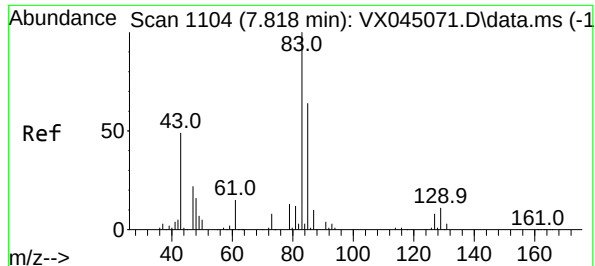
Ion Ratio Lower Upper

93 100

95 82.3 65.8 98.8

174 90.2 72.2 108.2





#47

Bromodichloromethane

Concen: 53.153 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

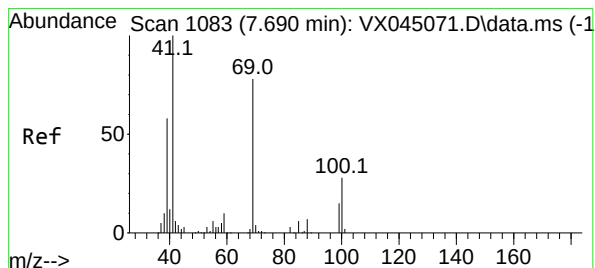
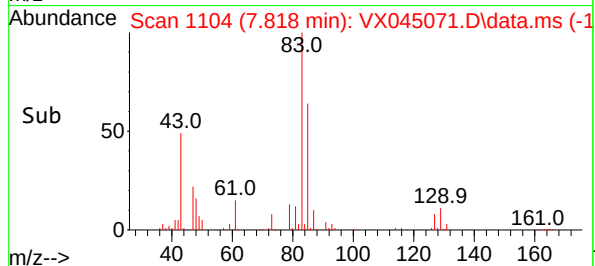
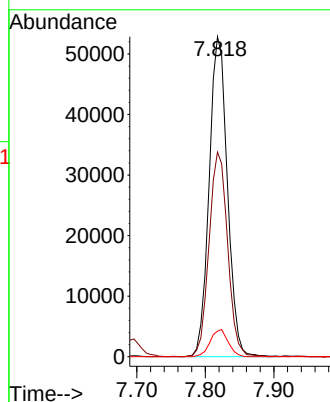
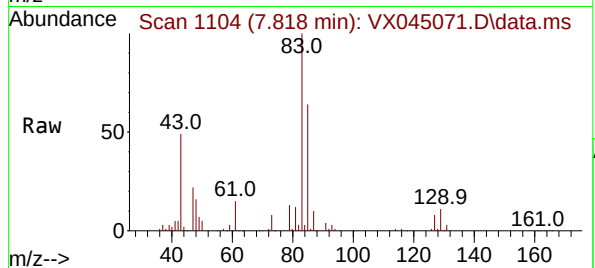
Tgt Ion:	83	Resp:	97729
Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.1	76.7
127	8.0	6.4	9.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#48

Methyl methacrylate

Concen: 57.256 ug/l

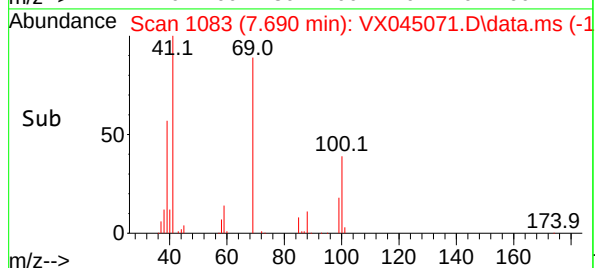
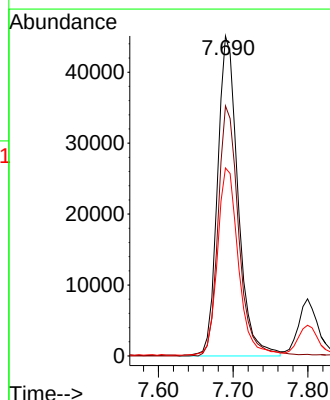
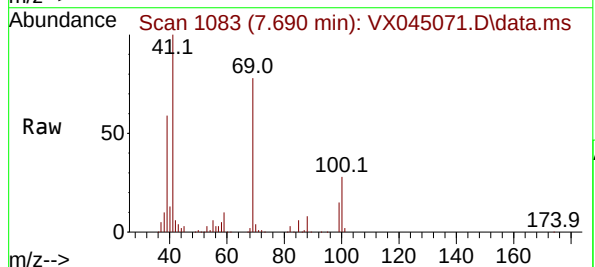
RT: 7.690 min Scan# 1083

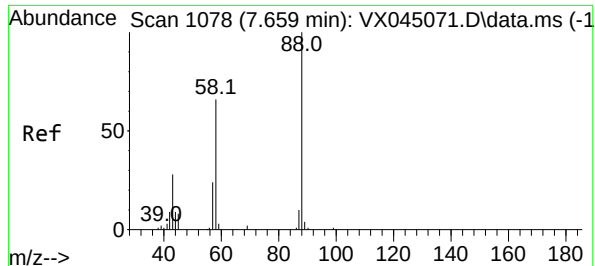
Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Tgt Ion:	41	Resp:	86231
Ion	Ratio	Lower	Upper
41	100		
69	78.8	63.0	94.6
39	59.4	47.5	71.3





#49

1,4-Dioxane

Concen: 1095.003 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 88 Resp: 3505

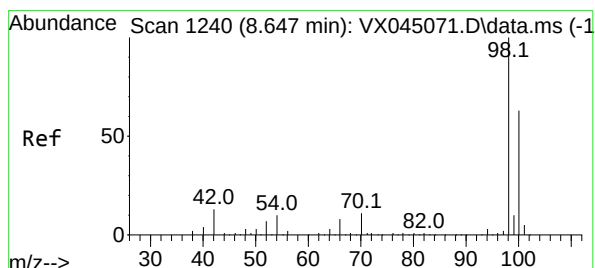
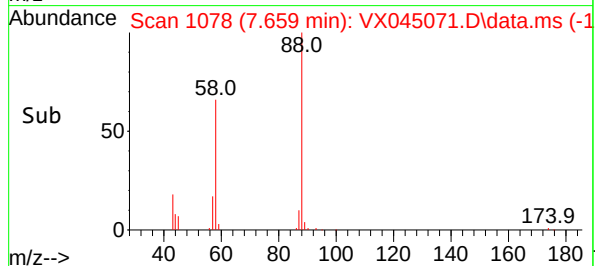
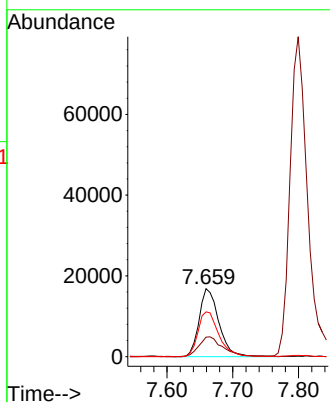
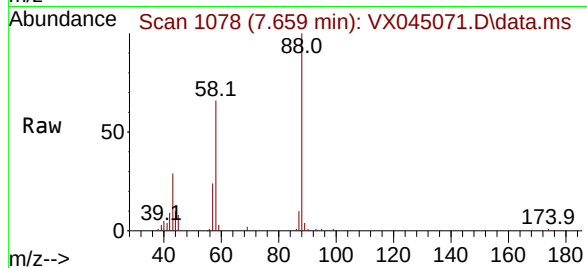
Ion	Ratio	Lower	Upper
88	100		
43	35.9	28.7	43.1
58	69.8	55.8	83.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#50

Toluene-d8

Concen: 49.449 ug/l

RT: 8.647 min Scan# 1240

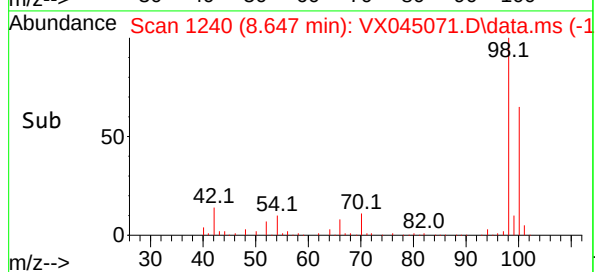
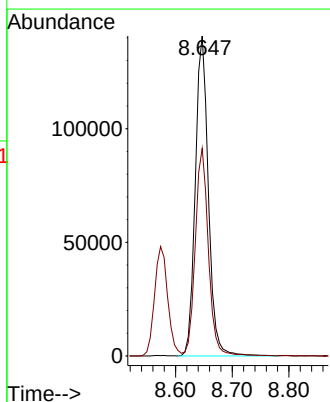
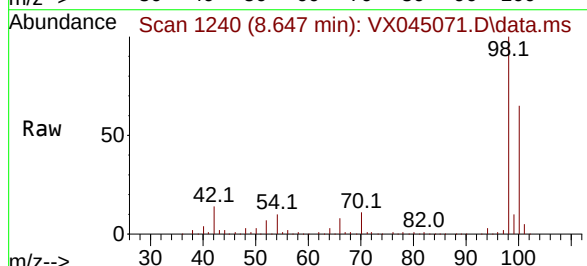
Delta R.T. 0.000 min

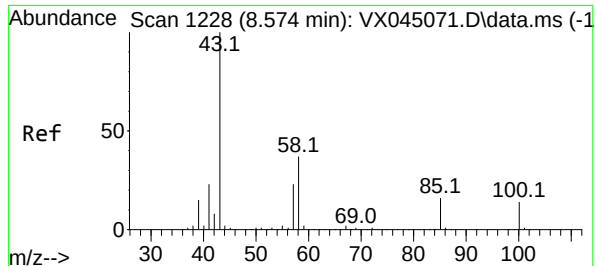
Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Tgt Ion: 98 Resp: 225493

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.0	78.0





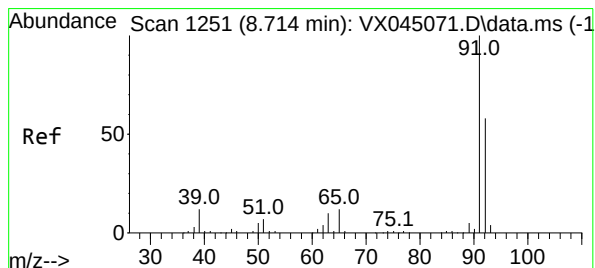
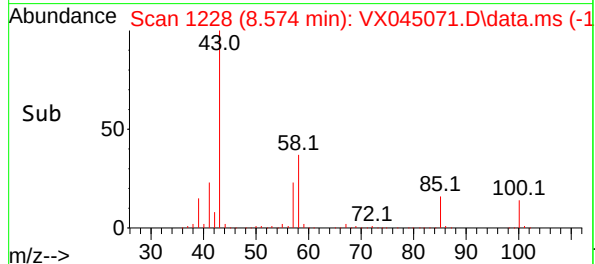
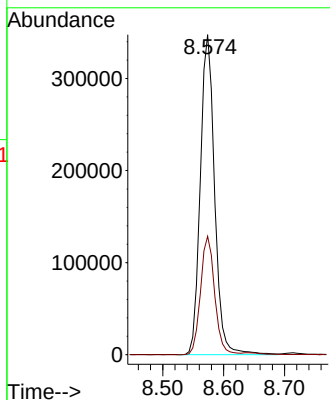
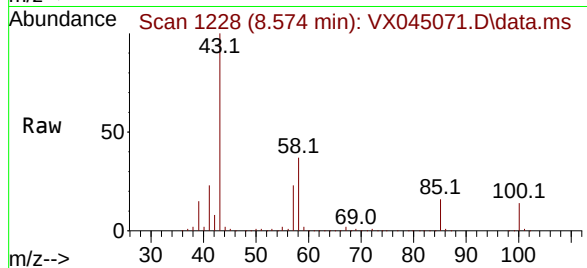
#51
4-Methyl-2-Pentanone
Concen: 292.570 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 56873
Ion Ratio Lower Upper
43 100
58 36.5 29.2 43.8

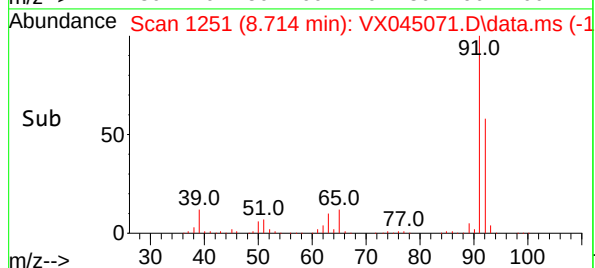
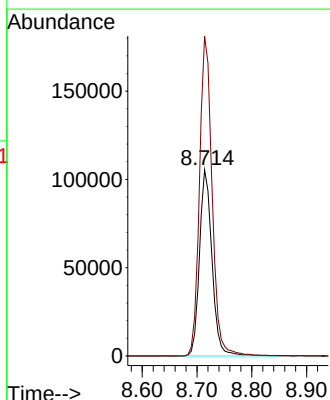
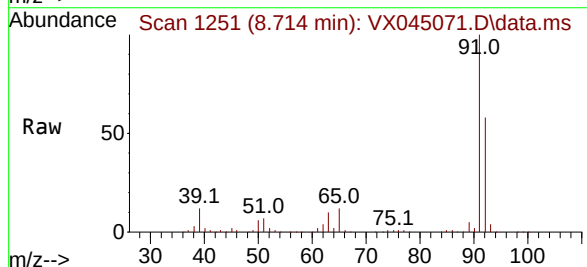
Manual Integrations
APPROVED

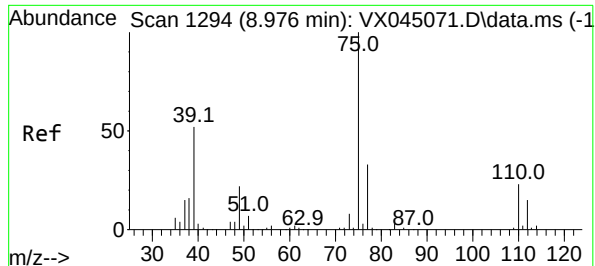
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#52
Toluene
Concen: 51.505 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 92 Resp: 167431
Ion Ratio Lower Upper
92 100
91 173.6 138.9 208.3





#53

t-1,3-Dichloropropene

Concen: 48.078 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 75 Resp: 8737

Ion Ratio Lower Upper

75 100

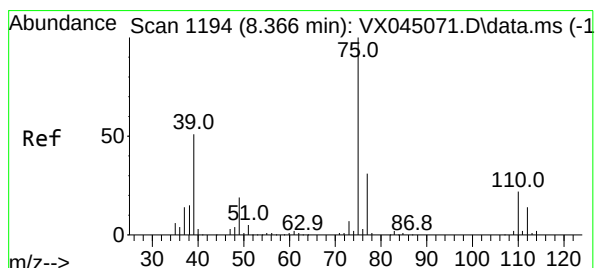
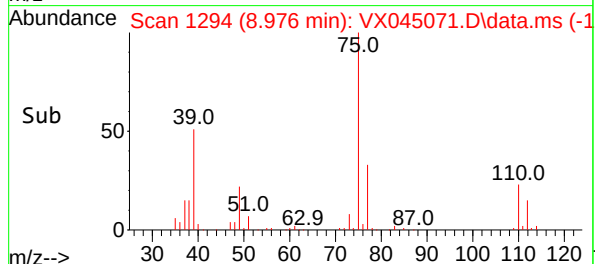
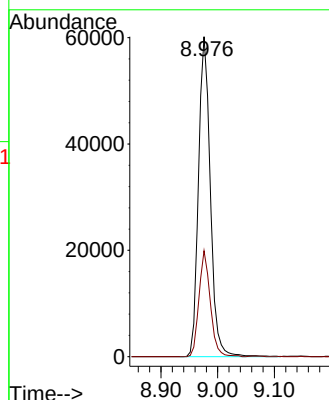
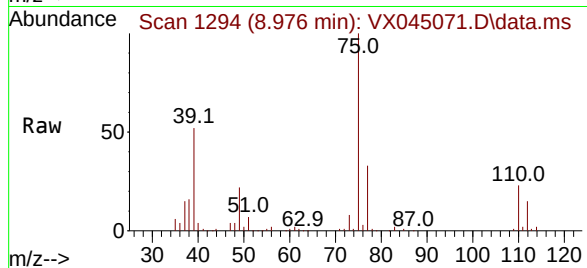
77 33.1 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#54

cis-1,3-Dichloropropene

Concen: 49.079 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

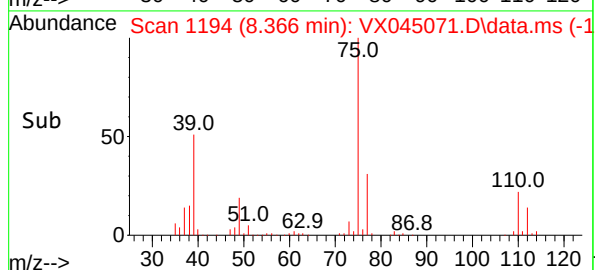
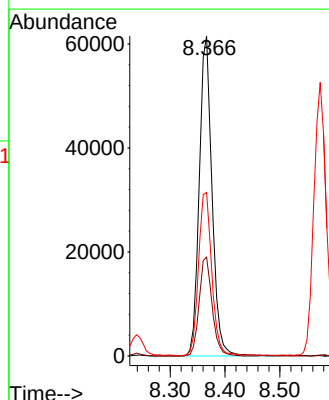
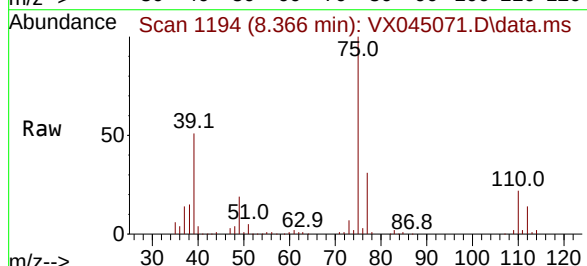
Tgt Ion: 75 Resp: 99713

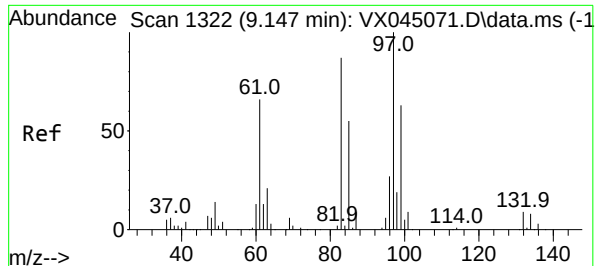
Ion Ratio Lower Upper

75 100

77 30.9 24.7 37.1

39 50.9 40.7 61.1





#55

1,1,2-Trichloroethane

Concen: 52.724 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Tgt Ion: 97 Resp: 66379

Ion Ratio Lower Upper

97 100

83 86.8 69.4 104.2

85 55.1 44.1 66.1

99 63.4 50.7 76.1

Instrument :

MSVOA_X

ClientSampleId :

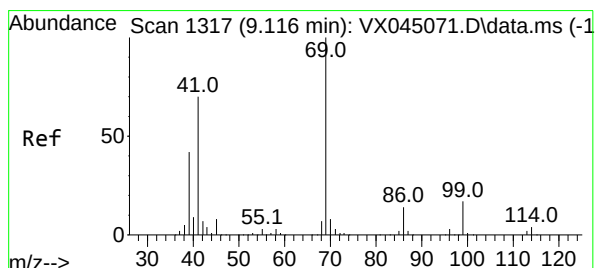
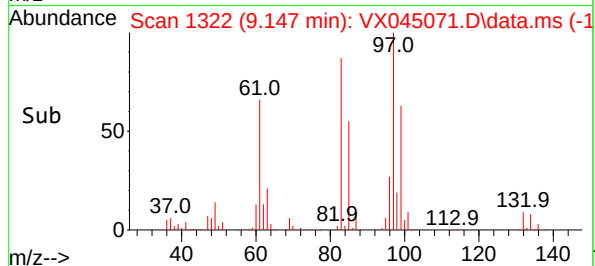
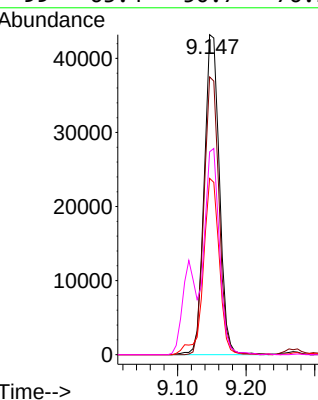
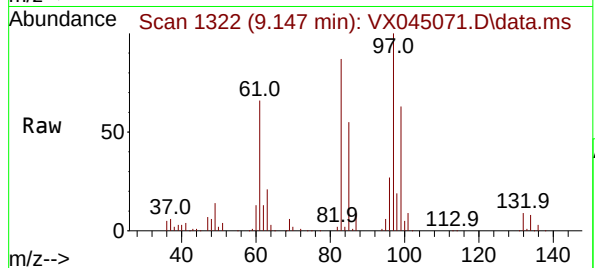
VSTDICCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#56

Ethyl methacrylate

Concen: 52.724 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

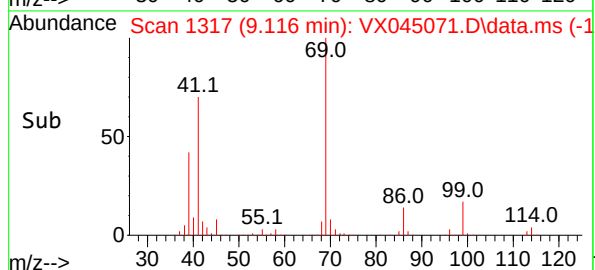
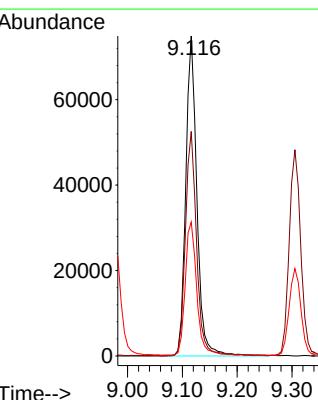
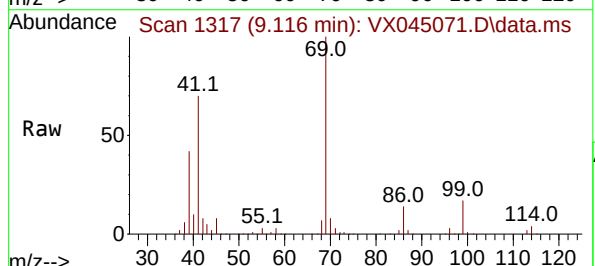
Tgt Ion: 69 Resp: 106157

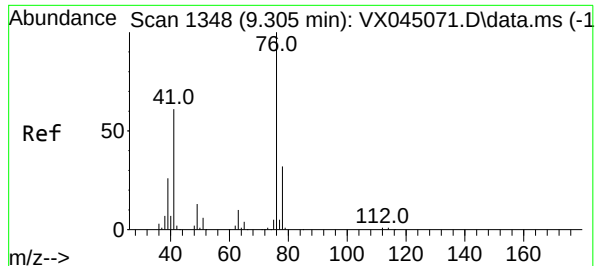
Ion Ratio Lower Upper

69 100

41 71.2 57.0 85.4

39 42.8 34.2 51.4





#57

1,3-Dichloropropane

Concen: 52.594 ug/l

RT: 9.305 min Scan# 11548

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 11548

Ion Ratio Lower Upper

76 100

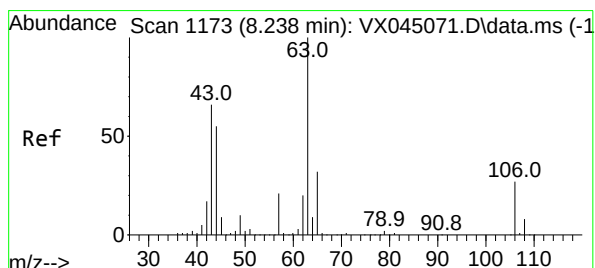
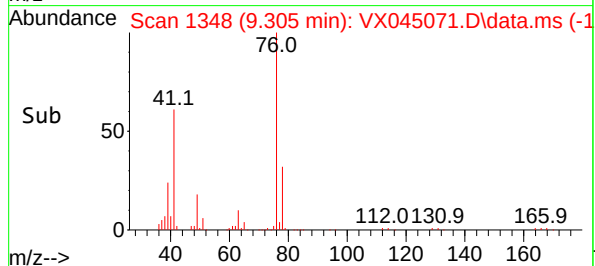
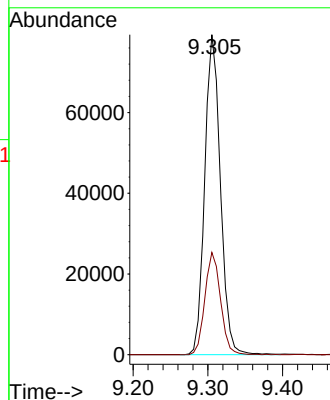
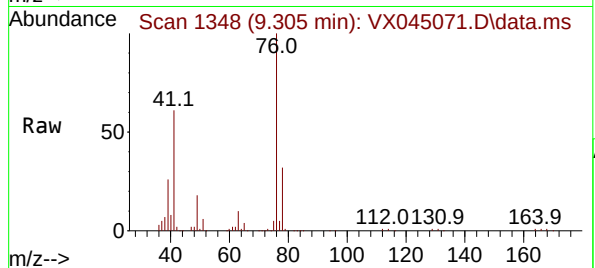
78 31.9 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#58

2-Chloroethyl Vinyl ether

Concen: 267.612 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX045071.D

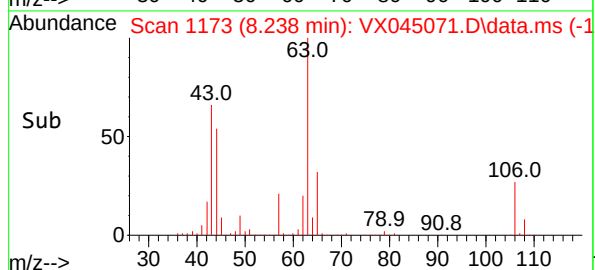
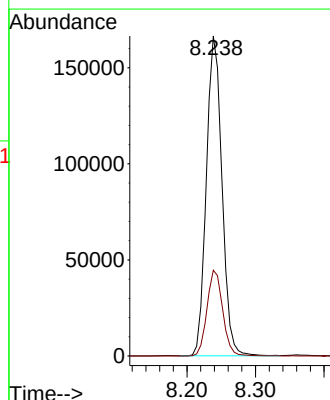
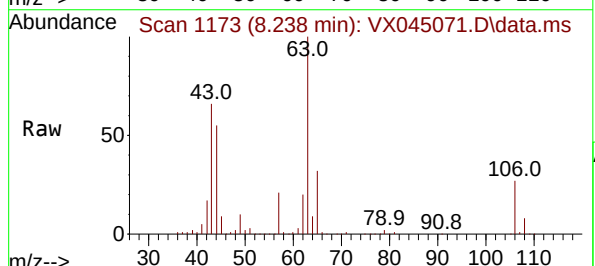
Acq: 28 Feb 2025 03:00

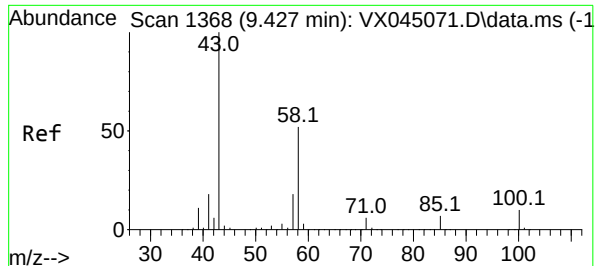
Tgt Ion: 63 Resp: 264555

Ion Ratio Lower Upper

63 100

106 26.9 21.5 32.3





#59

2-Hexanone

Concen: 297.362 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 416984

Ion Ratio Lower Upper

43 100

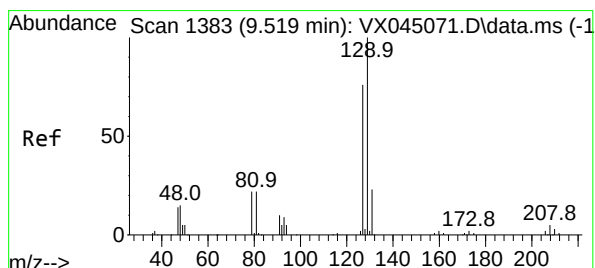
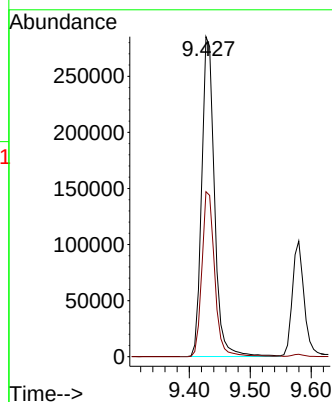
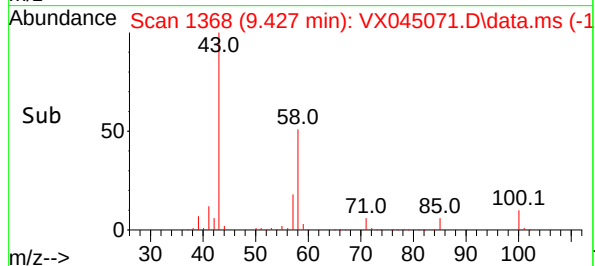
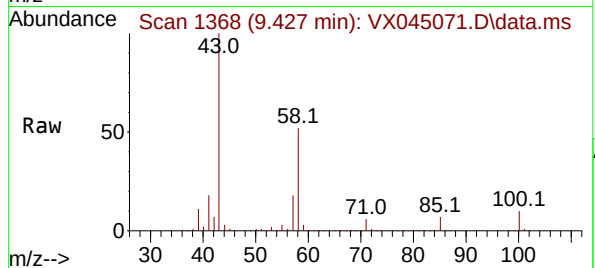
58 51.7 25.9 77.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#60

Dibromochloromethane

Concen: 53.284 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX045071.D

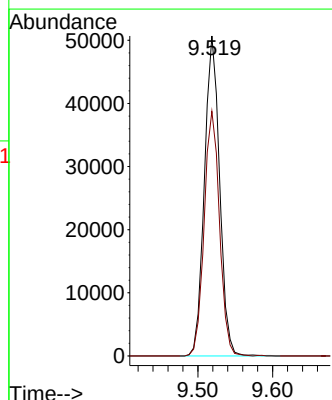
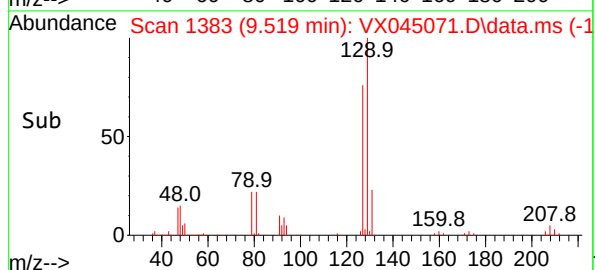
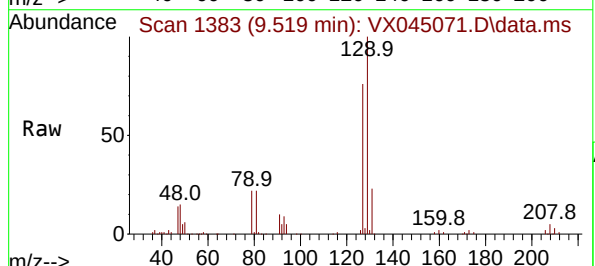
Acq: 28 Feb 2025 03:00

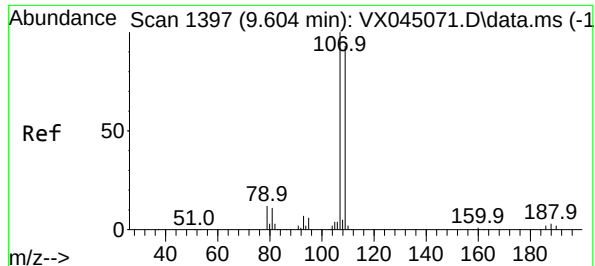
Tgt Ion:129 Resp: 71569

Ion Ratio Lower Upper

129 100

127 77.0 38.5 115.5





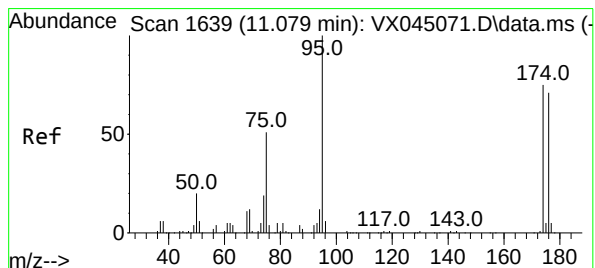
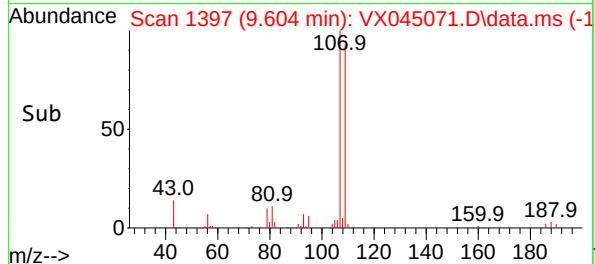
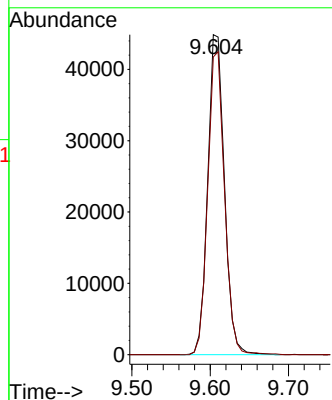
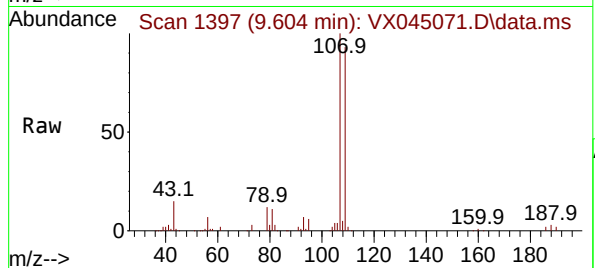
#61
1,2-Dibromoethane
Concen: 52.217 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 66312
Ion Ratio Lower Upper
107 100
109 95.1 76.1 114.1

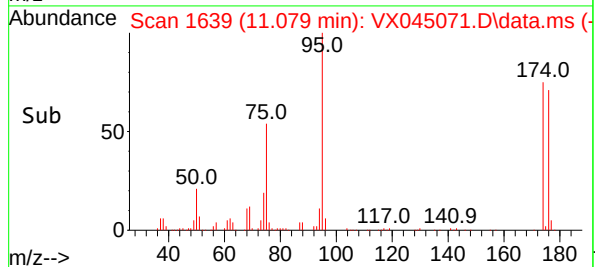
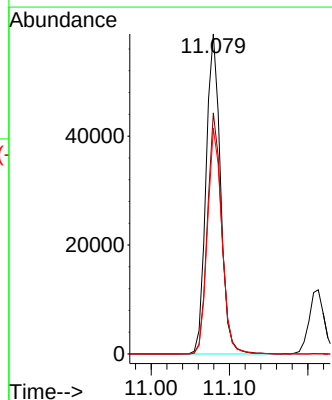
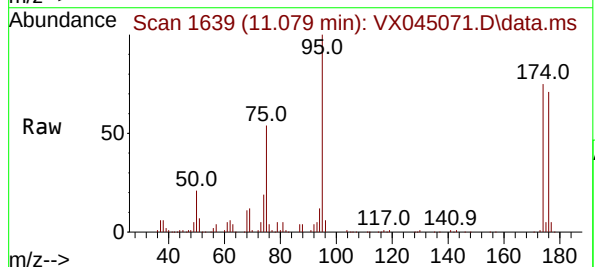
Manual Integrations
APPROVED

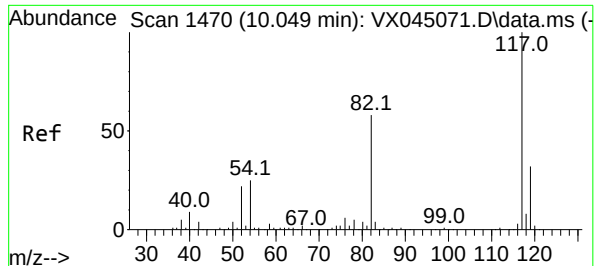
Reviewed By :John Carbone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#62
4-Bromofluorobenzene
Concen: 49.212 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

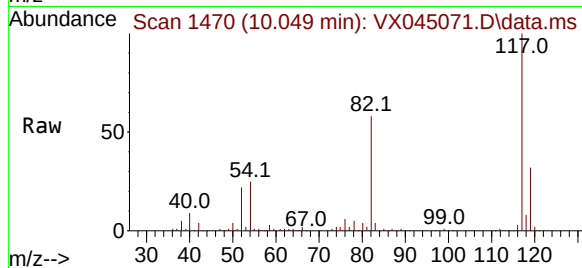
Tgt Ion: 95 Resp: 74945
Ion Ratio Lower Upper
95 100
174 74.1 0.0 148.2
176 70.7 0.0 141.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

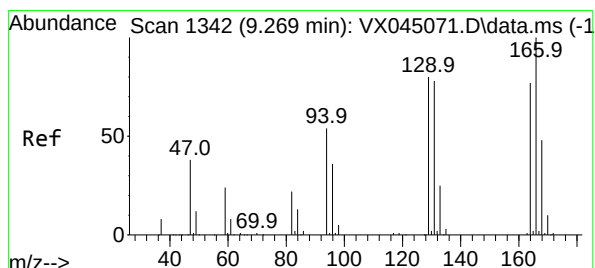
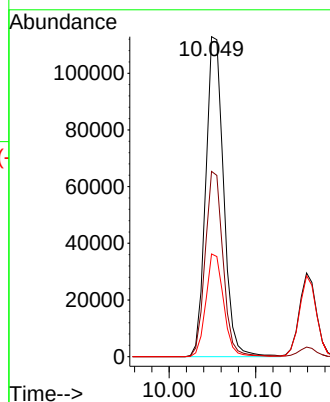
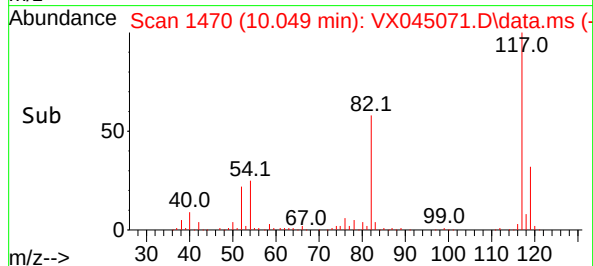
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:117 Resp: 162079
Ion Ratio Lower Upper
117 100
82 57.9 46.3 69.5
119 32.1 25.7 38.5

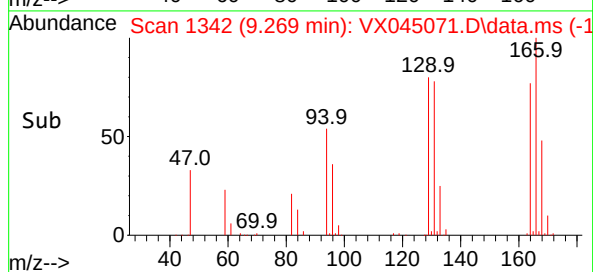
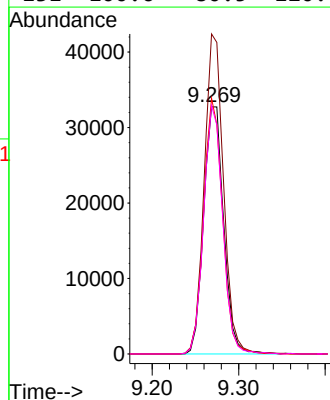
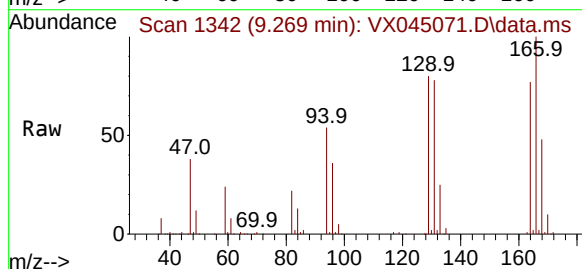
Manual Integrations
APPROVED

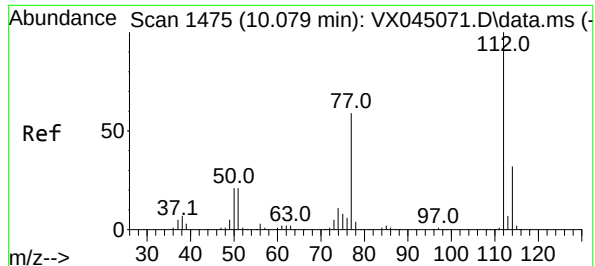
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#64
Tetrachloroethene
Concen: 51.021 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:164 Resp: 52531
Ion Ratio Lower Upper
164 100
166 129.5 103.6 155.4
129 103.4 82.7 124.1
131 100.6 80.5 120.7





#65

Chlorobenzene

Concen: 50.853 ug/l

RT: 10.079 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:112 Resp: 17692

Ion Ratio Lower Upper

112 100

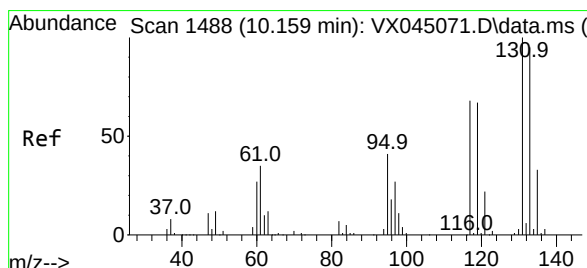
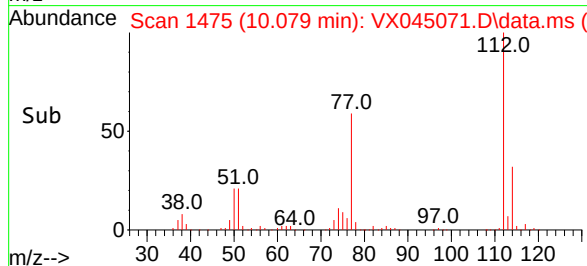
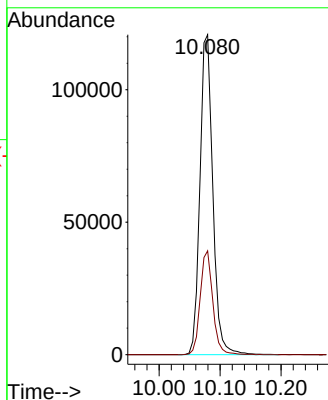
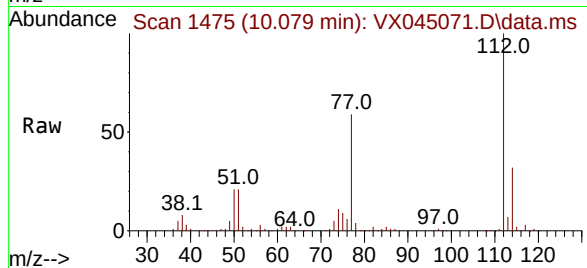
114 32.5 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 51.402 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

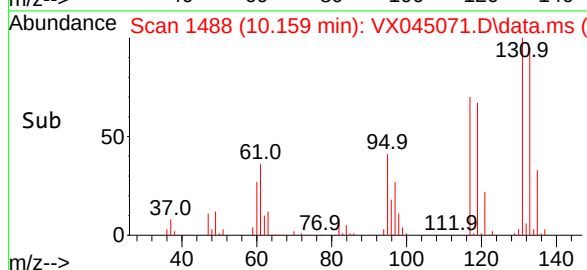
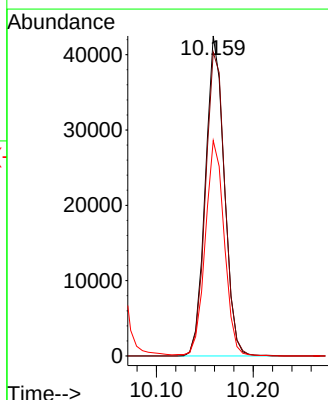
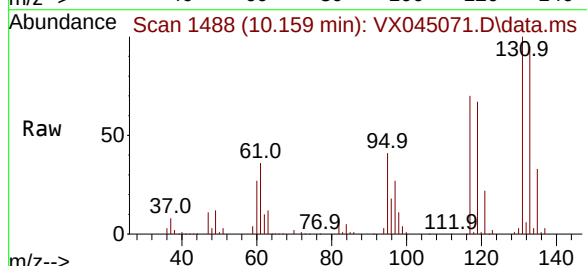
Tgt Ion:131 Resp: 57642

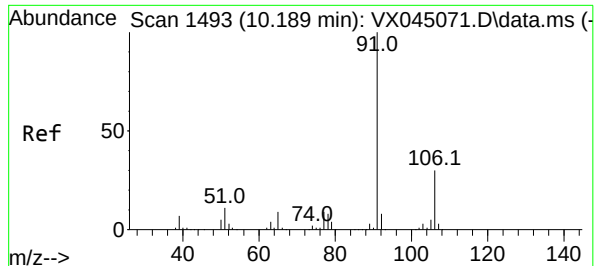
Ion Ratio Lower Upper

131 100

133 97.3 48.6 145.9

119 67.8 33.9 101.7





#67

Ethyl Benzene

Concen: 51.431 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 31642

Ion Ratio Lower Upper

91 100

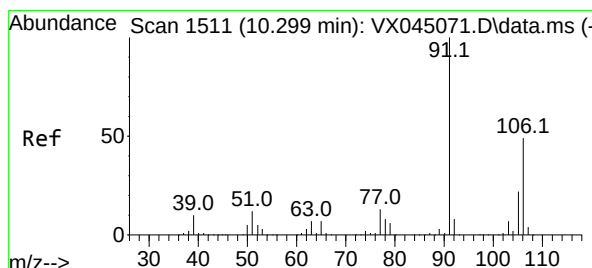
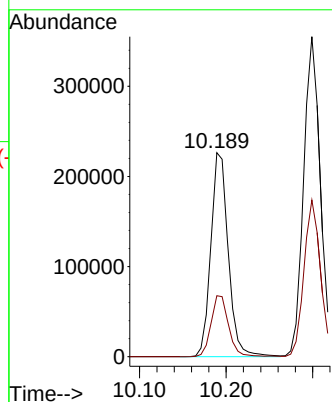
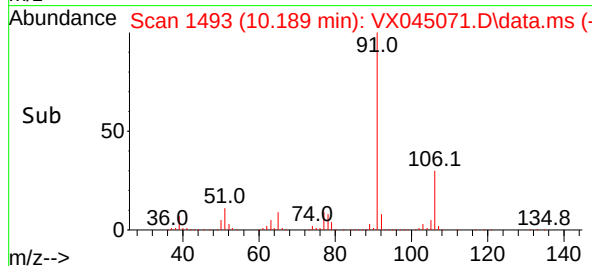
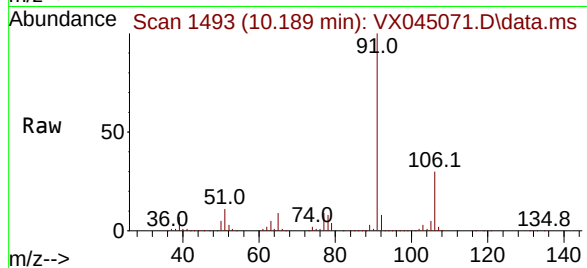
106 29.9 23.9 35.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#68

m/p-Xylenes

Concen: 103.515 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX045071.D

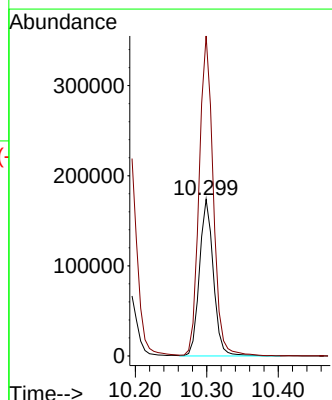
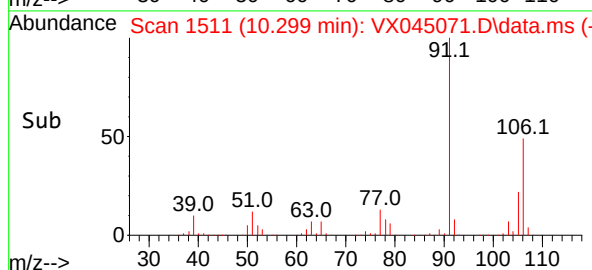
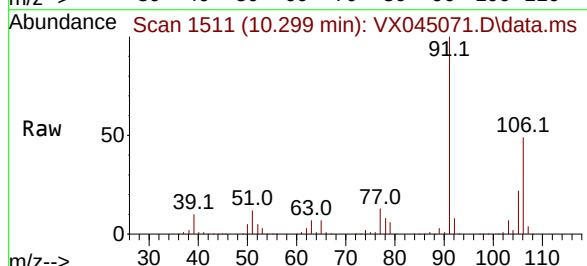
Acq: 28 Feb 2025 03:00

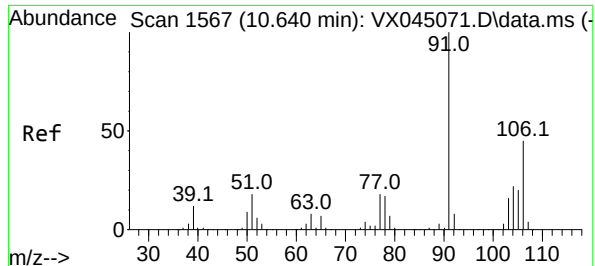
Tgt Ion:106 Resp: 234554

Ion Ratio Lower Upper

106 100

91 206.7 165.4 248.0





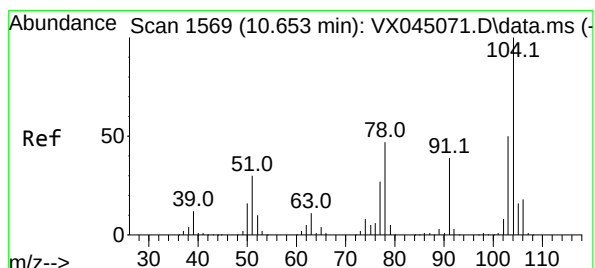
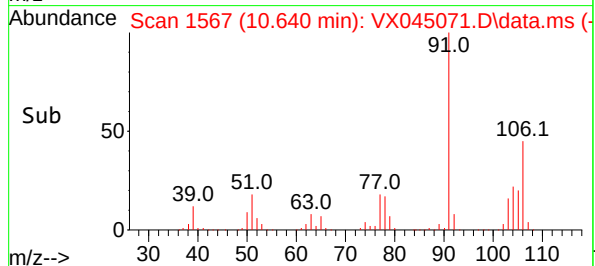
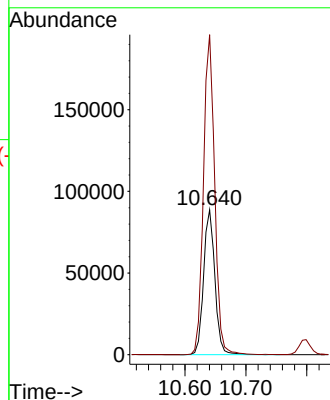
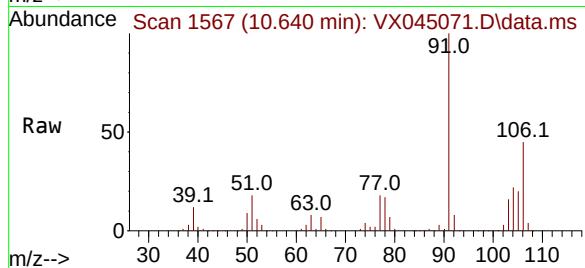
#69
o-Xylene
Concen: 50.341 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 114440
Ion Ratio Lower Upper
106 100
91 219.7 109.9 329.6

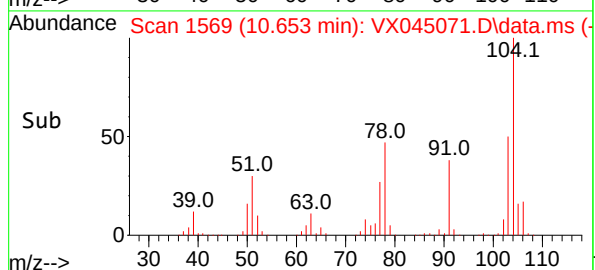
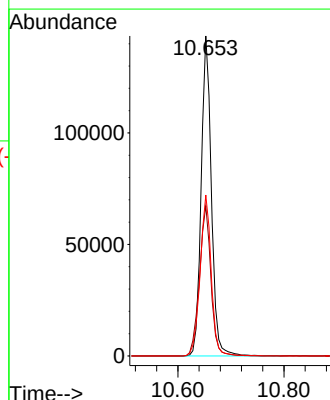
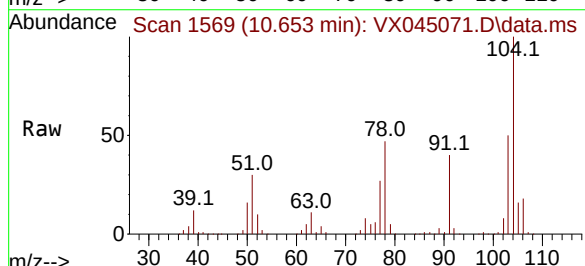
Manual Integrations
APPROVED

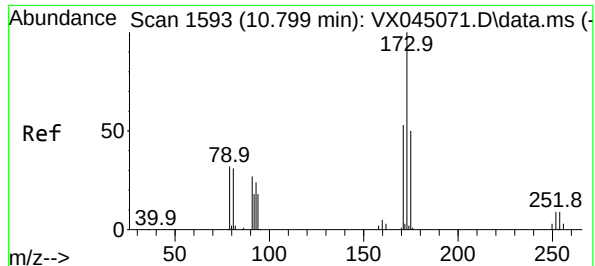
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#70
Styrene
Concen: 52.387 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

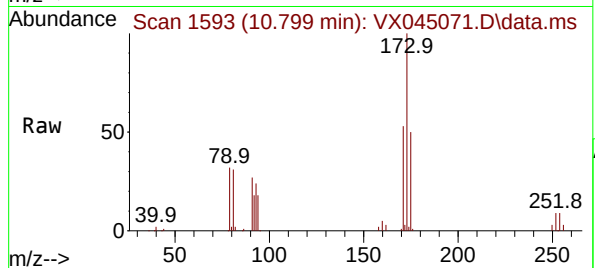
Tgt Ion:104 Resp: 191406
Ion Ratio Lower Upper
104 100
78 52.8 42.2 63.4
103 54.8 43.8 65.8





#71
Bromoform
Concen: 53.645 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

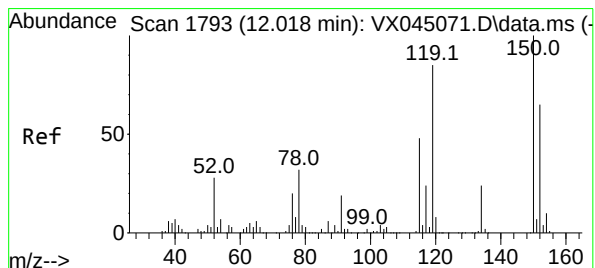
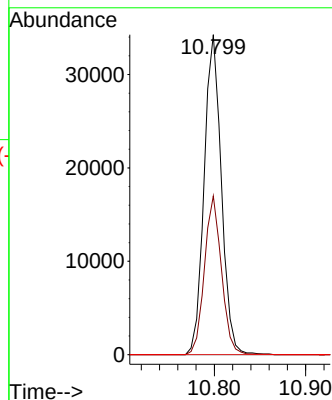
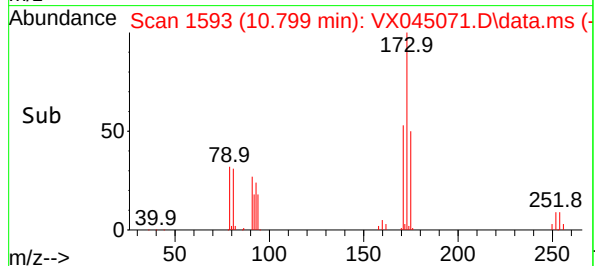
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:173 Resp: 44730
Ion Ratio Lower Upper
173 100
175 49.1 24.6 73.6
254 0.0 0.0 0.0

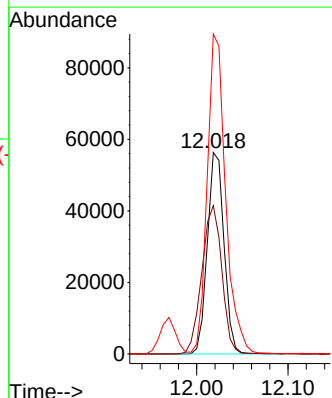
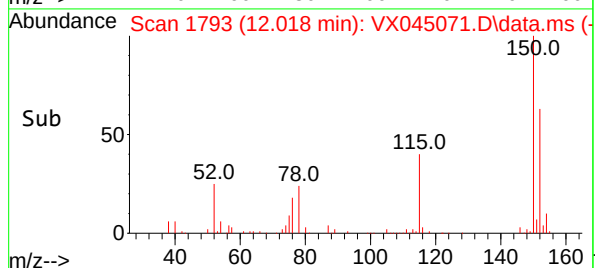
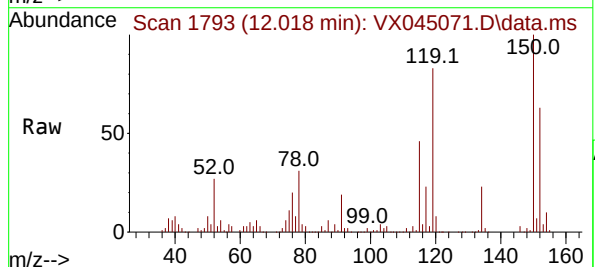
Manual Integrations
APPROVED

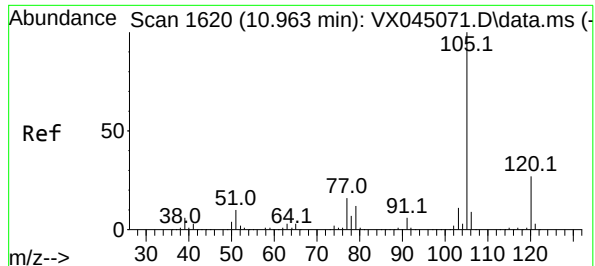
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

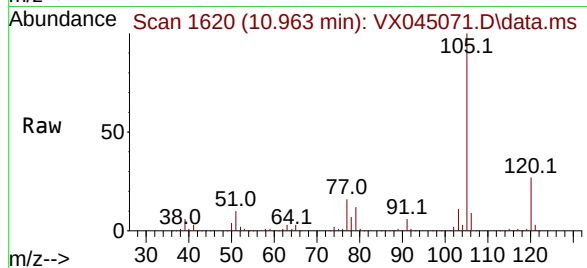
Tgt Ion:152 Resp: 71264
Ion Ratio Lower Upper
152 100
115 88.4 44.2 132.6
150 174.5 0.0 349.0





#73
Isopropylbenzene
Concen: 51.167 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

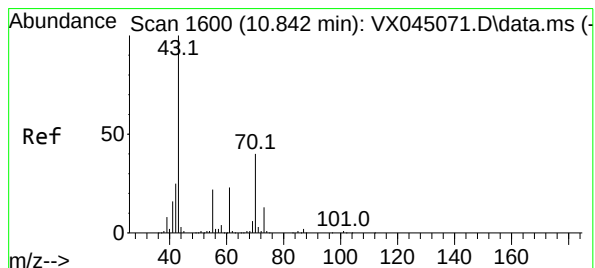
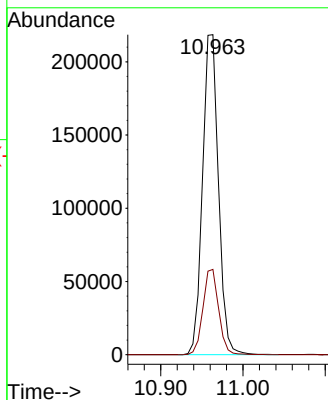
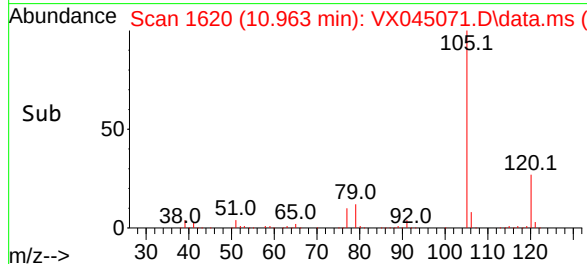
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:105 Resp: 294694
Ion Ratio Lower Upper
105 100
120 26.3 13.2 39.5

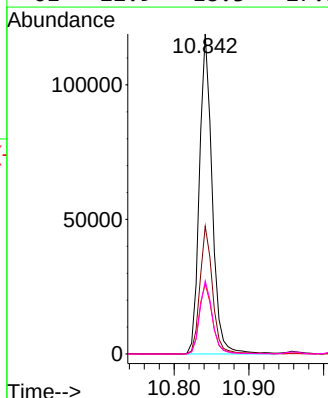
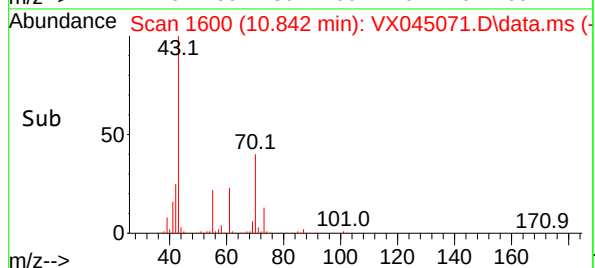
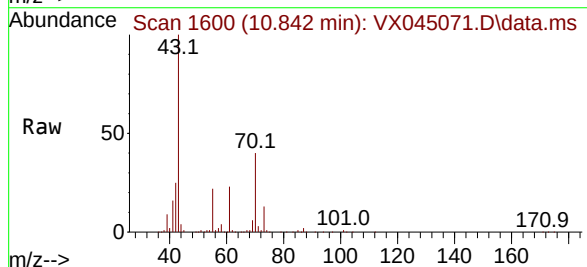
Manual Integrations
APPROVED

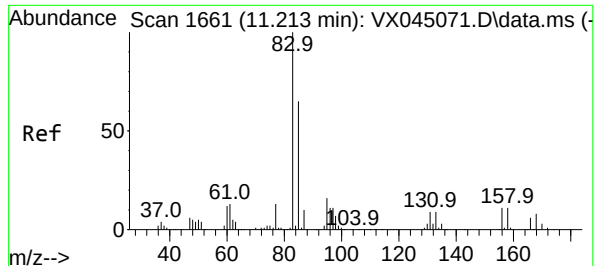
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#74
N-ethyl acetate
Concen: 53.881 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 43 Resp: 140869
Ion Ratio Lower Upper
43 100
70 39.7 31.8 47.6
55 22.9 18.3 27.5
61 22.9 18.3 27.5





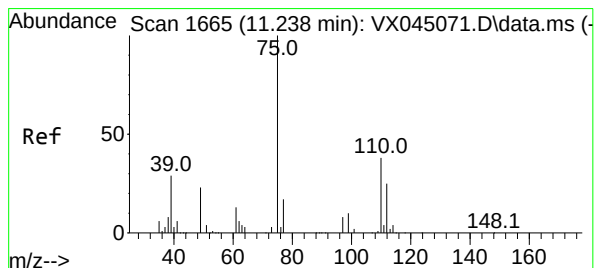
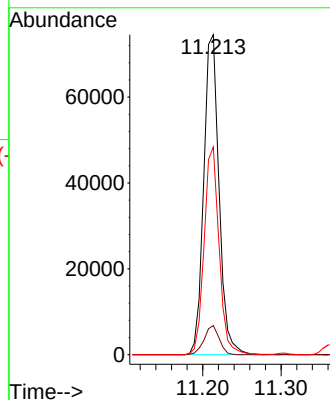
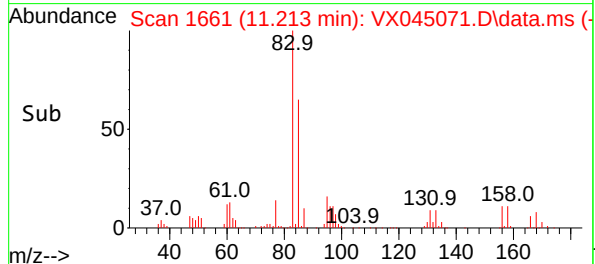
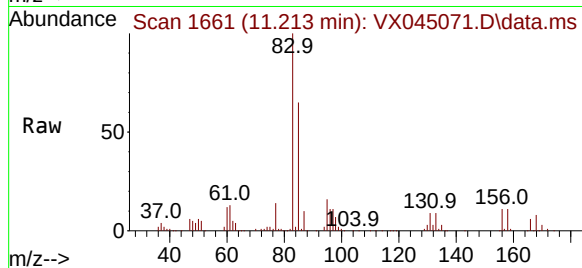
#75
1,1,2,2-Tetrachloroethane
Concen: 50.945 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 101089
Ion Ratio Lower Upper
83 100
131 8.9 4.5 13.4
85 63.4 31.7 95.1

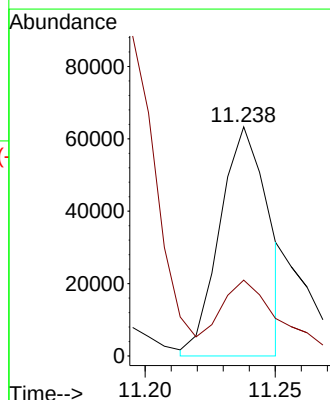
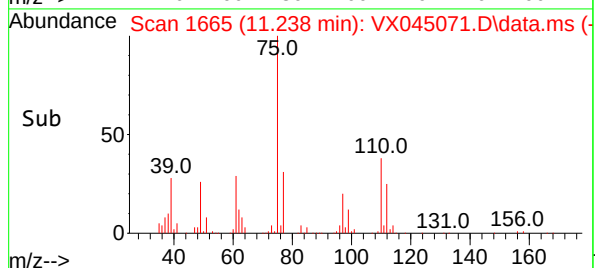
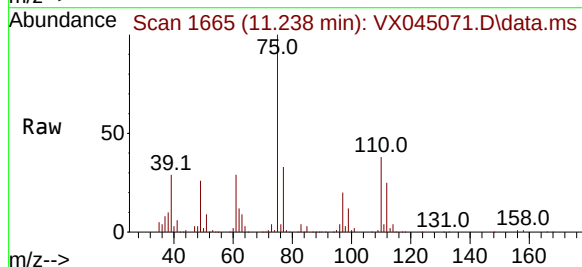
Manual Integrations
APPROVED

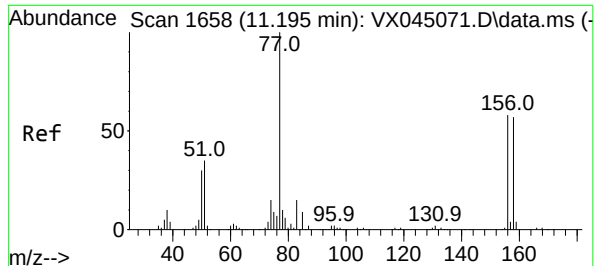
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#76
1,2,3-Trichloropropane
Concen: 51.421 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

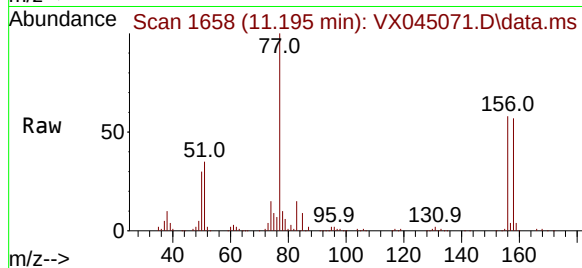
Tgt Ion: 75 Resp: 81743
Ion Ratio Lower Upper
75 100
77 41.4 20.7 62.1





#77
Bromobenzene
Concen: 51.173 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

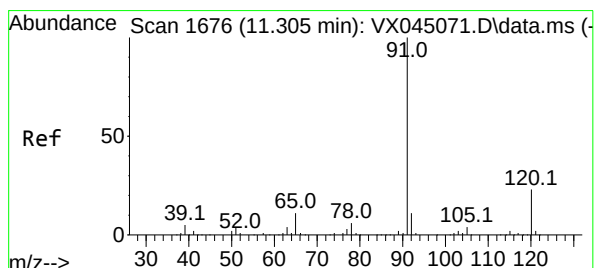
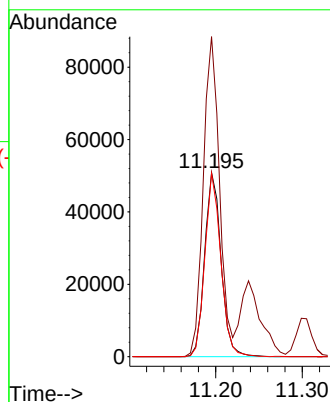
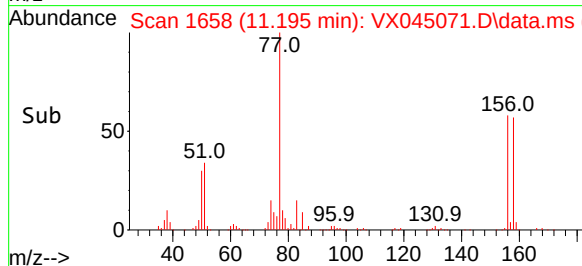
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:156 Resp: 66904
Ion Ratio Lower Upper
156 100
77 171.6 85.8 257.4
158 96.8 48.4 145.2

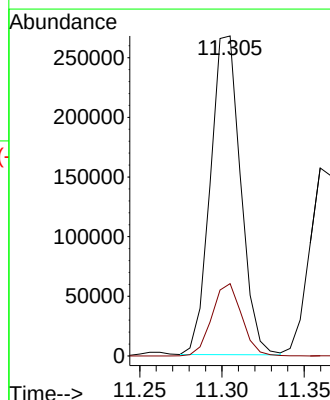
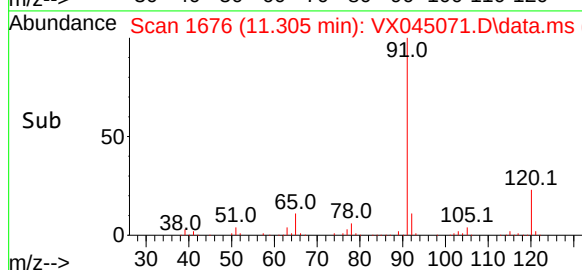
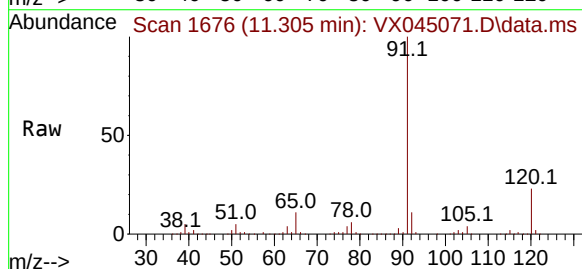
Manual Integrations
APPROVED

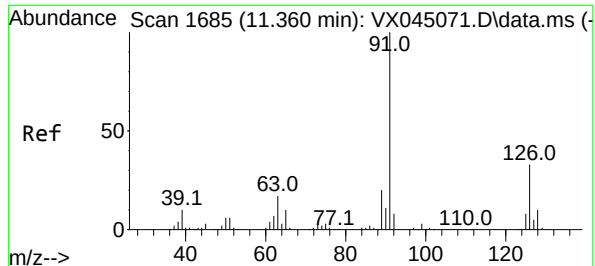
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#78
n-propylbenzene
Concen: 51.546 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 91 Resp: 342399
Ion Ratio Lower Upper
91 100
120 22.4 11.2 33.6





#79

2-Chlorotoluene

Concen: 50.154 ug/l

RT: 11.360 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 204484

Ion Ratio Lower Upper

91 100

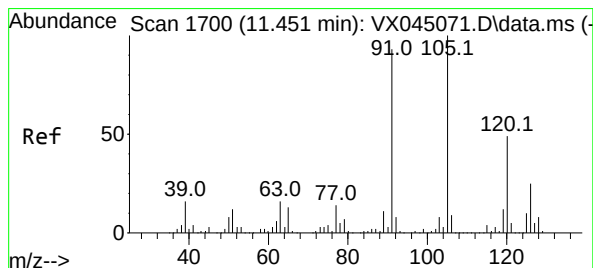
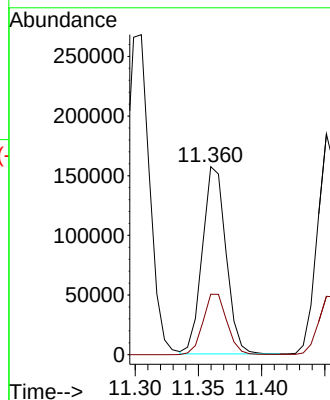
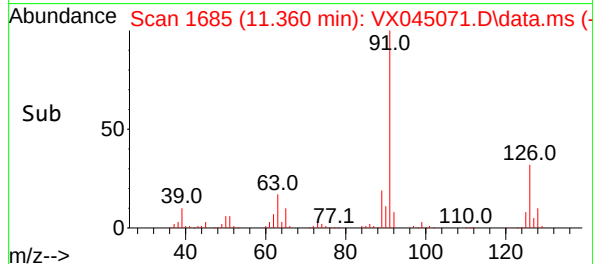
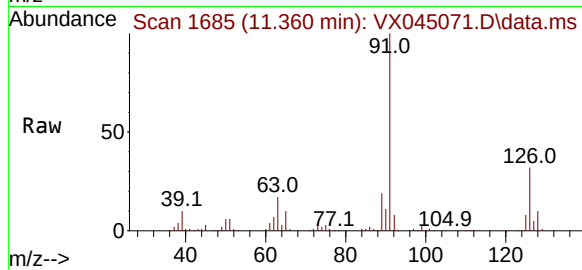
126 32.9 16.4 49.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#80

1,3,5-Trimethylbenzene

Concen: 51.613 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX045071.D

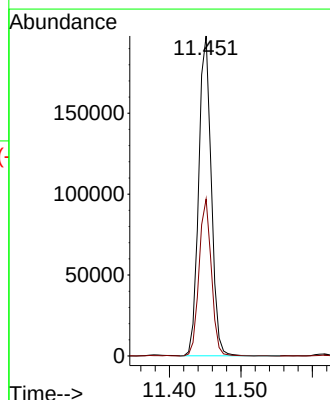
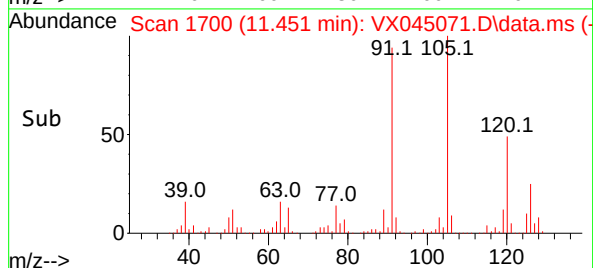
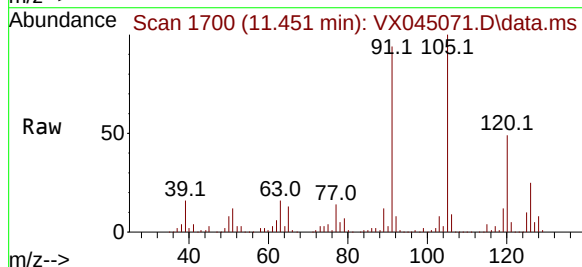
Acq: 28 Feb 2025 03:00

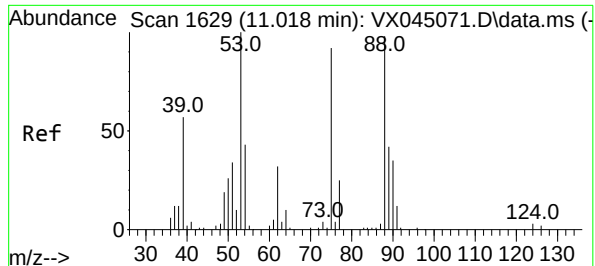
Tgt Ion:105 Resp: 241129

Ion Ratio Lower Upper

105 100

120 48.1 24.1 72.2





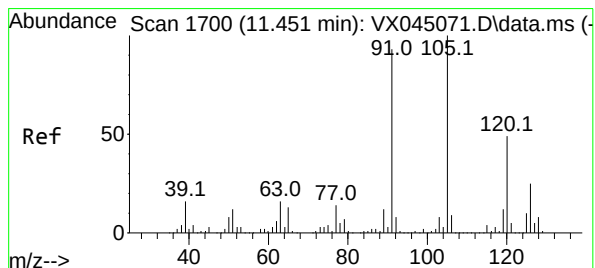
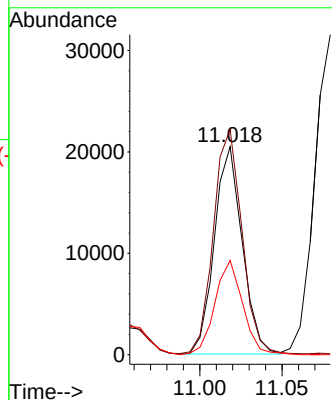
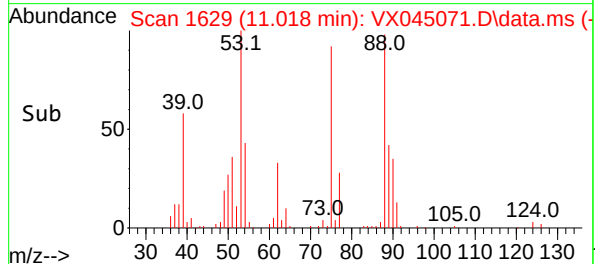
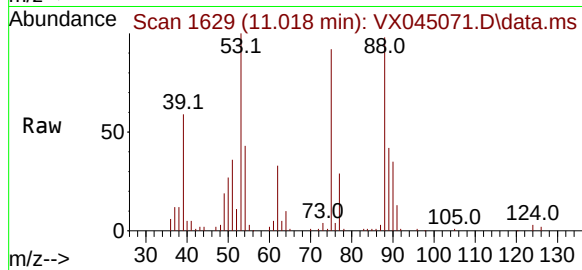
#81
trans-1,4-Dichloro-2-butene
Concen: 41.172 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 24135
Ion Ratio Lower Upper
75 100
53 110.6 88.5 132.7
89 45.3 36.2 54.4

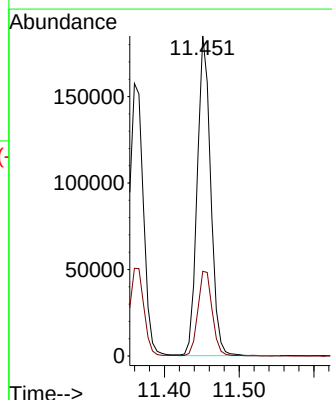
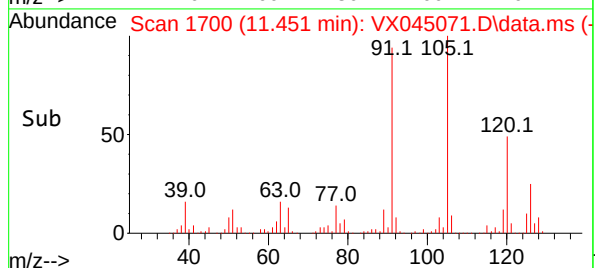
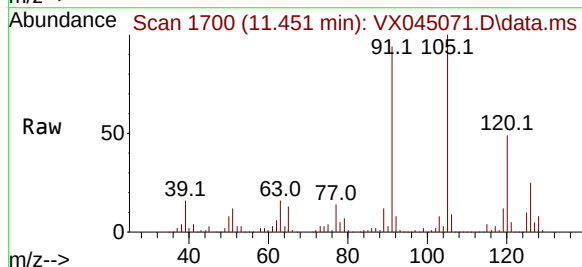
Manual Integrations
APPROVED

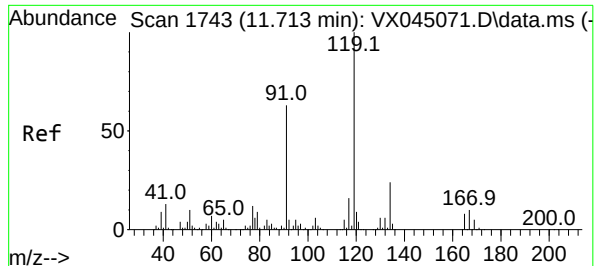
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#82
4-Chlorotoluene
Concen: 51.072 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

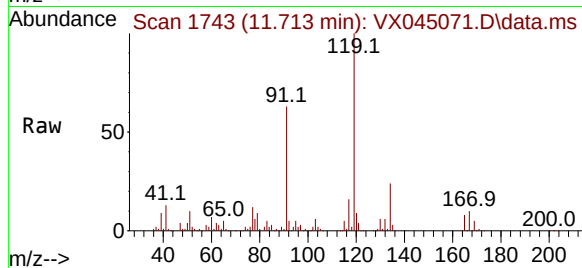
Tgt Ion: 91 Resp: 230493
Ion Ratio Lower Upper
91 100
126 28.3 14.1 42.4





#83
tert-Butylbenzene
Concen: 50.895 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

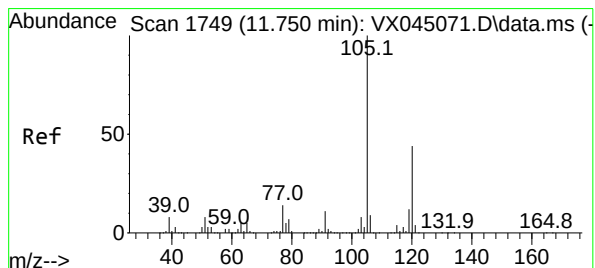
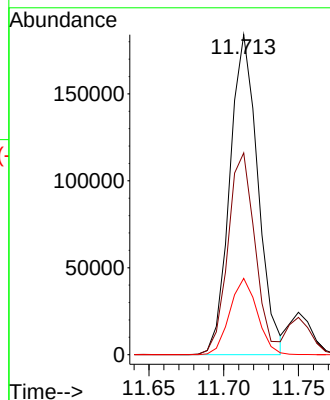
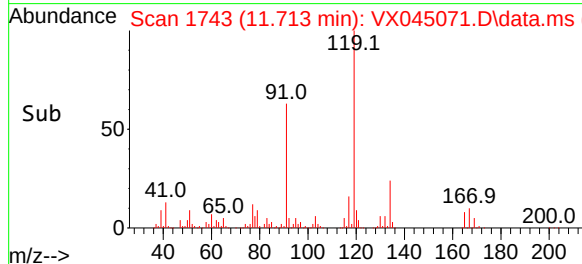
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



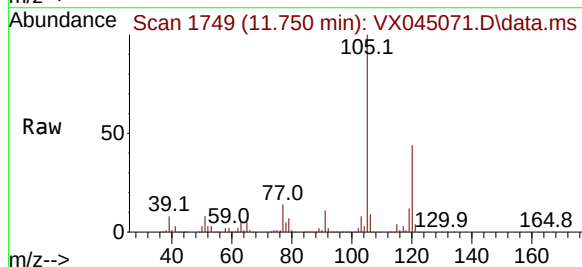
Tgt Ion:119 Resp: 240510
Ion Ratio Lower Upper
119 100
91 61.4 30.7 92.1
134 23.3 11.7 35.0

Manual Integrations
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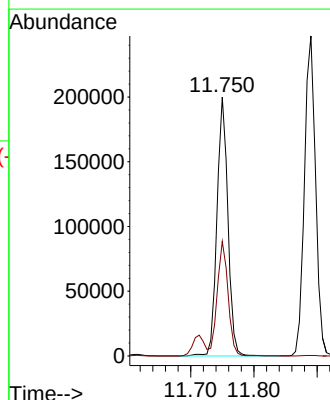
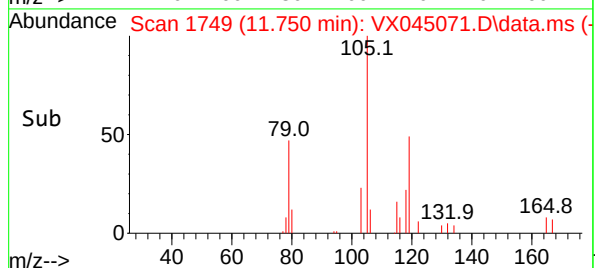
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

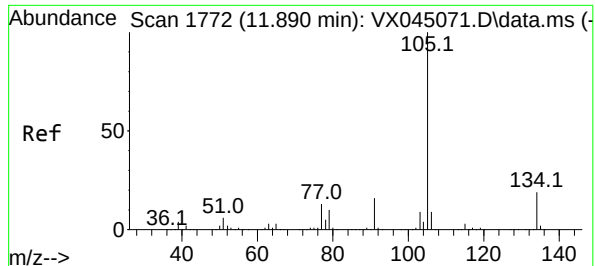


#84
1,2,4-Trimethylbenzene
Concen: 52.326 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00



Tgt Ion:105 Resp: 240719
Ion Ratio Lower Upper
105 100
120 44.1 22.1 66.1





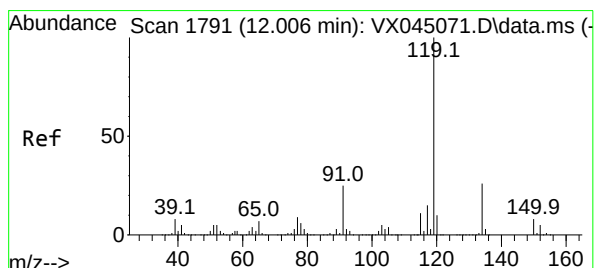
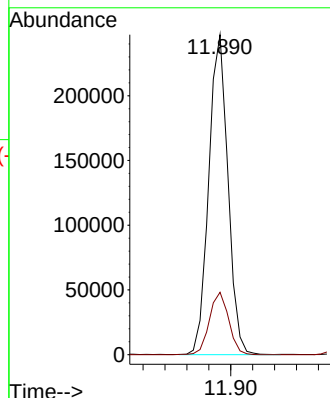
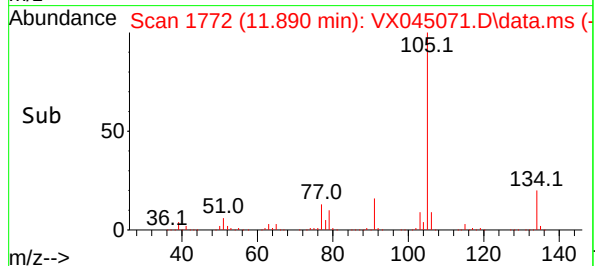
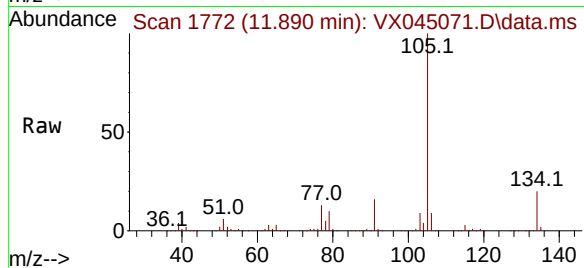
#85
sec-Butylbenzene
Concen: 51.353 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 30039
Ion Ratio Lower Upper
105 100
134 19.6 9.8 29.4

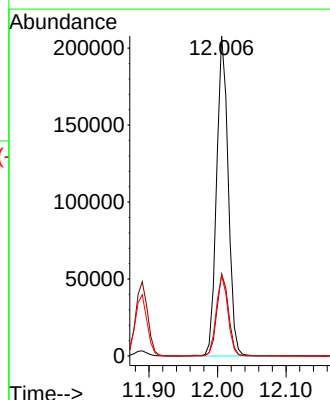
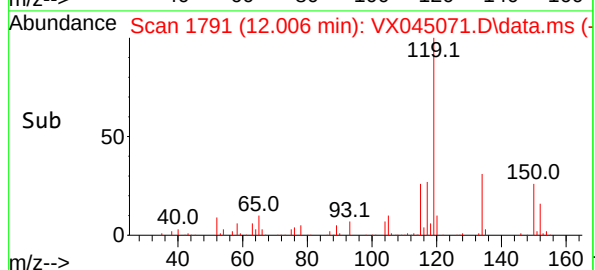
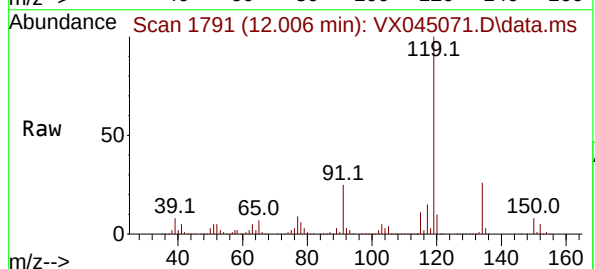
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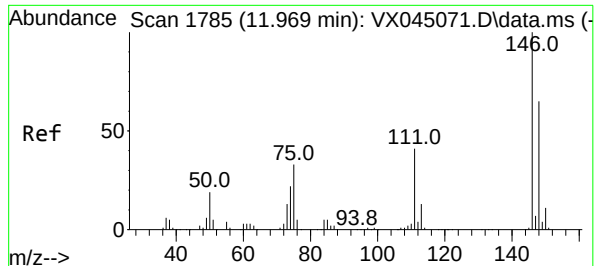
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#86
p-Isopropyltoluene
Concen: 51.964 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:119 Resp: 244031
Ion Ratio Lower Upper
119 100
134 25.7 12.9 38.6
91 25.3 12.7 38.0





#87

1,3-Dichlorobenzene

Concen: 49.747 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 118879

Ion Ratio Lower Upper

146 100

111 42.3 21.1 63.4

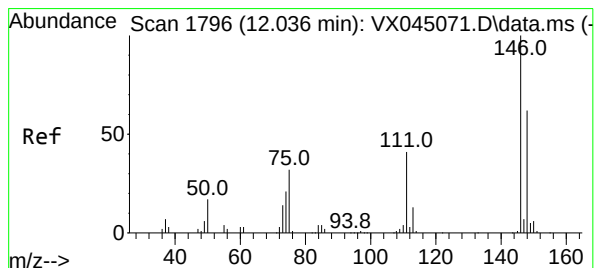
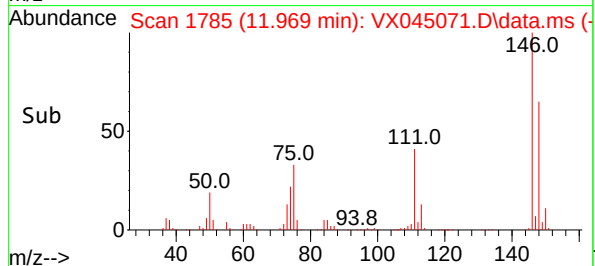
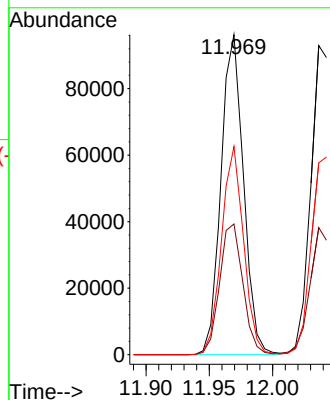
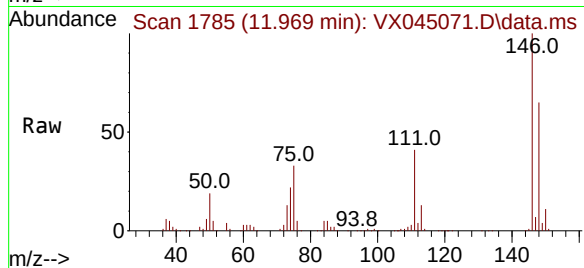
148 63.8 31.9 95.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#88

1,4-Dichlorobenzene

Concen: 49.694 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

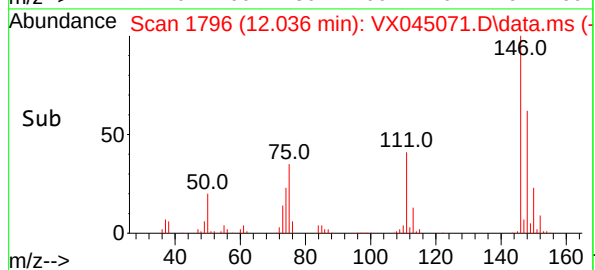
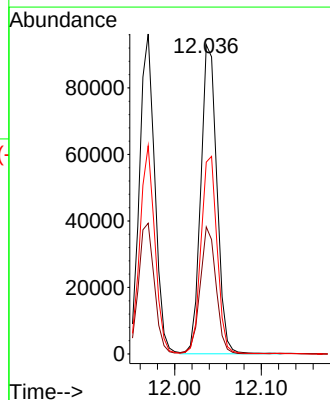
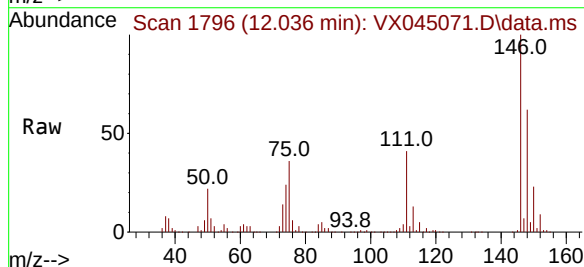
Tgt Ion:146 Resp: 120217

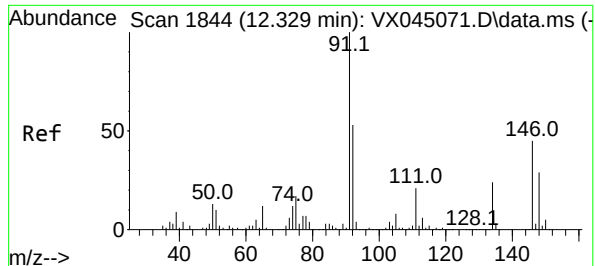
Ion Ratio Lower Upper

146 100

111 40.3 20.2 60.5

148 63.9 31.9 95.9





#89

n-Butylbenzene

Concen: 52.006 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 21468

Ion Ratio Lower Upper

91 100

92 53.3 26.7 80.0

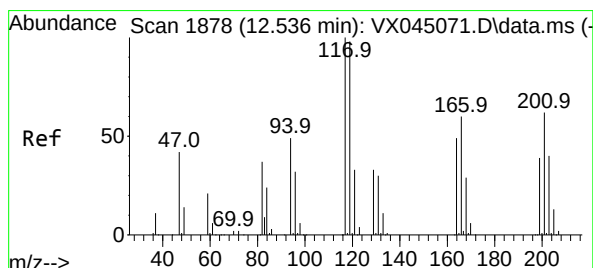
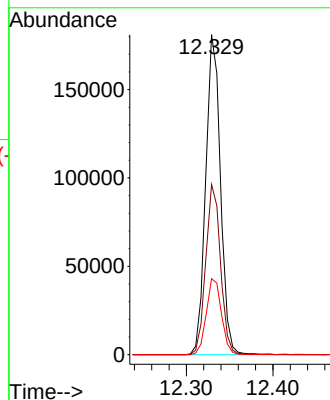
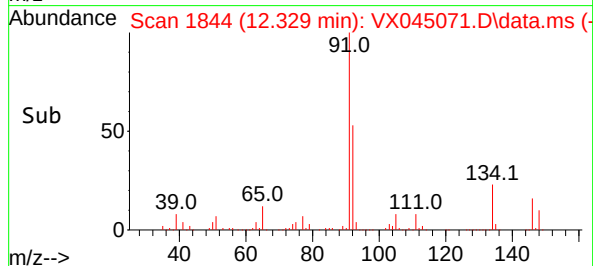
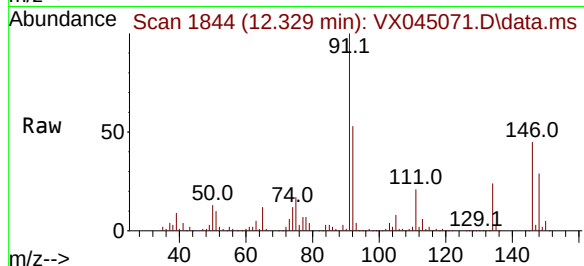
134 24.4 12.2 36.6

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Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#90

Hexachloroethane

Concen: 49.188 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX045071.D

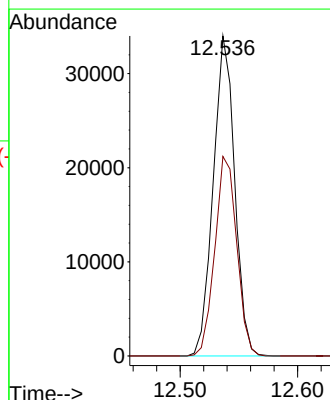
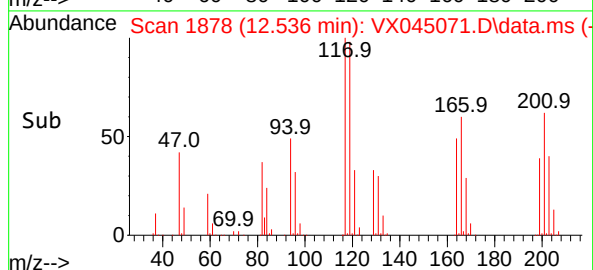
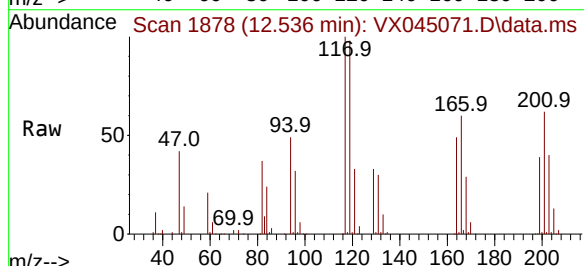
Acq: 28 Feb 2025 03:00

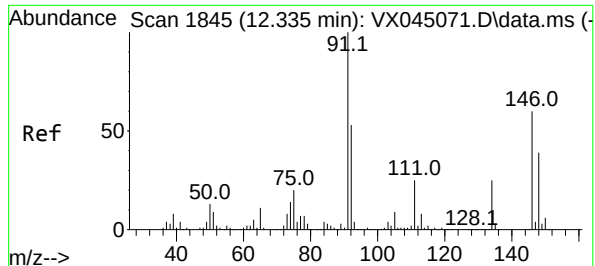
Tgt Ion:117 Resp: 43086

Ion Ratio Lower Upper

117 100

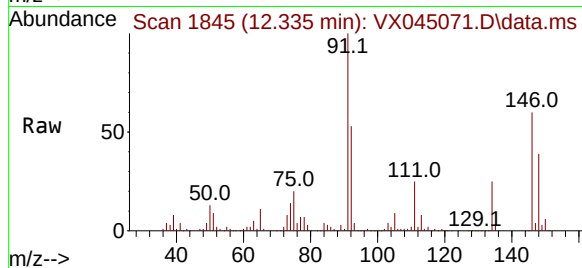
201 63.9 31.9 95.9





#91
1,2-Dichlorobenzene
Concen: 50.557 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

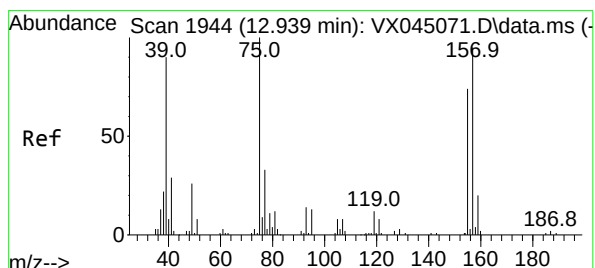
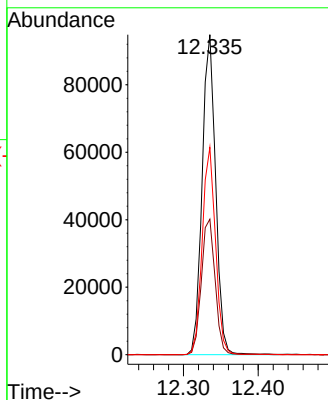
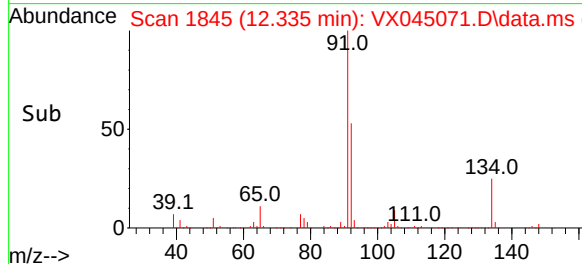
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:146 Resp: 118890
Ion Ratio Lower Upper
146 100
111 43.3 21.6 65.0
148 63.9 31.9 95.9

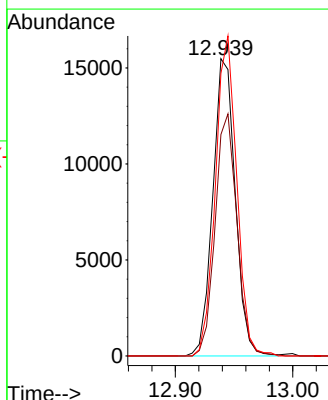
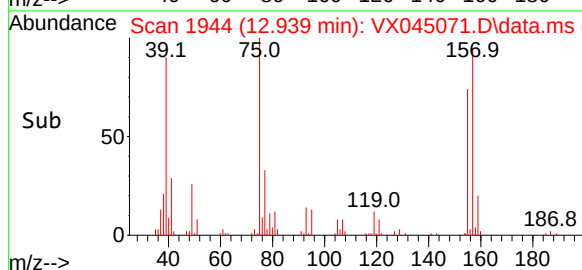
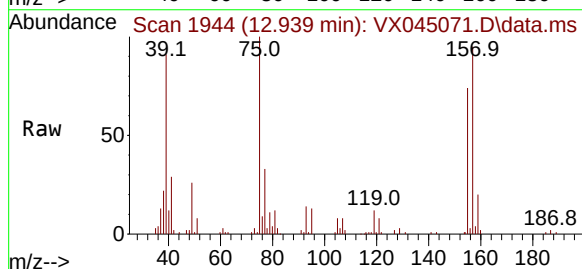
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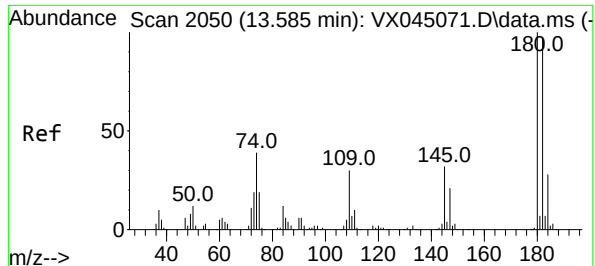
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 56.123 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

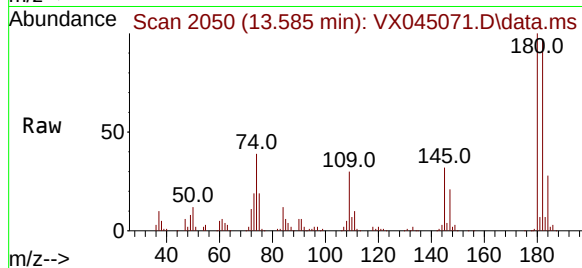
Tgt Ion: 75 Resp: 20610
Ion Ratio Lower Upper
75 100
155 79.1 39.6 118.7
157 102.3 51.1 153.4





#93
1,2,4-Trichlorobenzene
Concen: 50.571 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

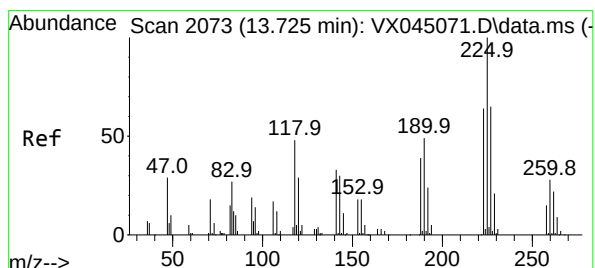
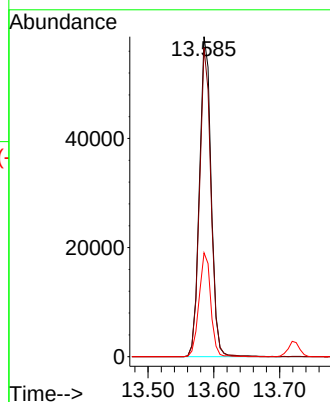
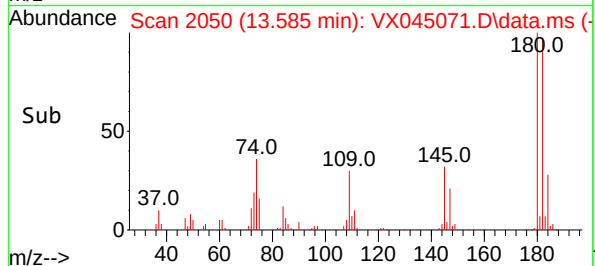
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:180 Resp: 7189
Ion Ratio Lower Upper
180 100
182 94.6 47.3 141.9
145 32.6 16.3 48.9

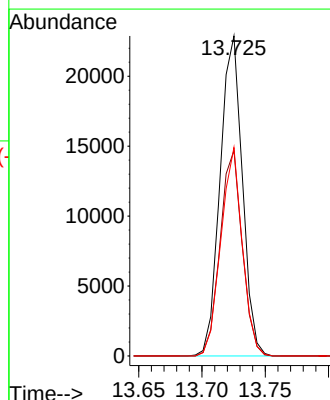
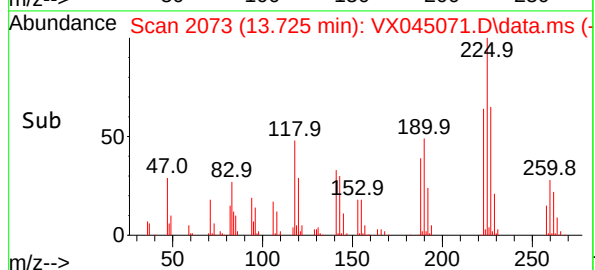
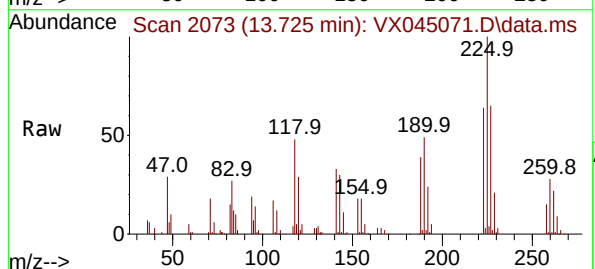
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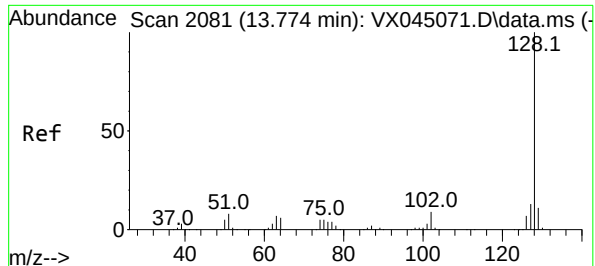
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#94
Hexachlorobutadiene
Concen: 49.245 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

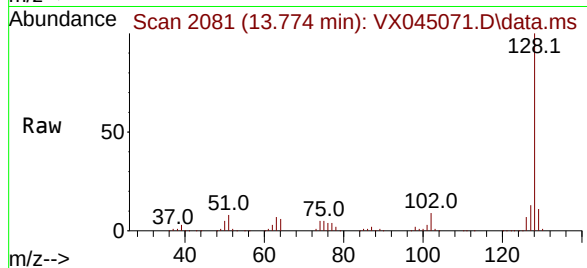
Tgt Ion:225 Resp: 27916
Ion Ratio Lower Upper
225 100
223 63.8 31.9 95.7
227 62.7 31.4 94.0





#95
Naphthalene
Concen: 53.700 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

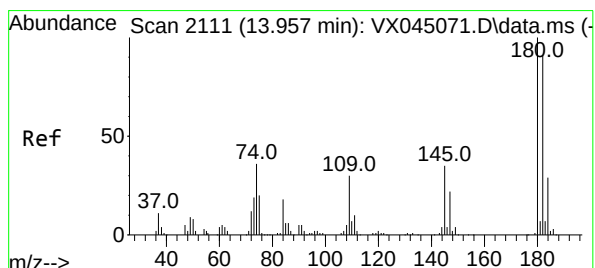
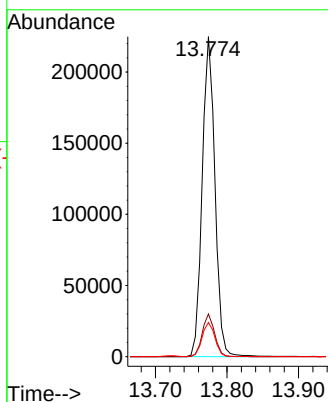
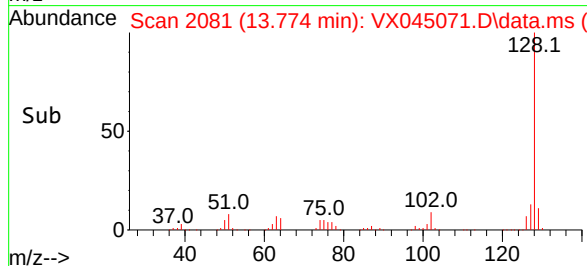
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:128 Resp: 278080
Ion Ratio Lower Upper
128 100
127 12.9 10.3 15.5
129 10.9 8.7 13.1

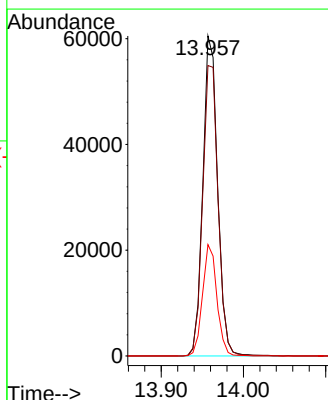
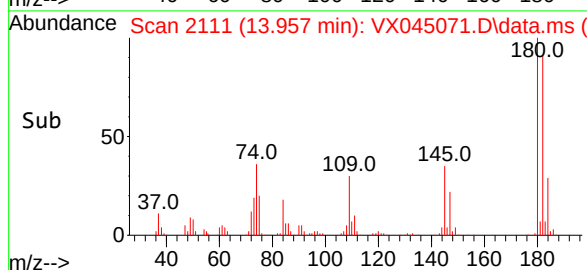
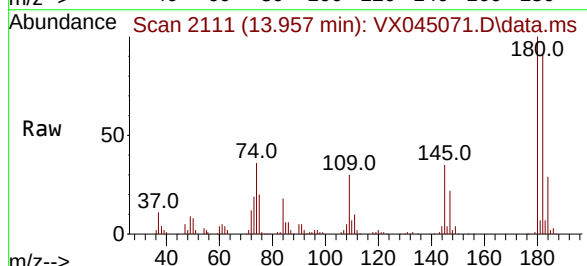
Manual Integrations
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Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 52.406 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:180 Resp: 75482
Ion Ratio Lower Upper
180 100
182 95.1 47.5 142.6
145 33.9 17.0 50.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
 Data File : VX045072.D
 Acq On : 28 Feb 2025 03:23
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Quant Time: Feb 28 05:35:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 05:28:02 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 02/28/2025
 Supervised By : Mahesh Dadoda 02/28/2025

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	101178	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	181031	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	151175	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	69086	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	158452	106.011	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 212.020%#			
35) Dibromofluoromethane	5.385	113	123185	104.110	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 208.220%#			
50) Toluene-d8	8.647	98	441188	99.595	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 199.200%#			
62) 4-Bromofluorobenzene	11.079	95	148476	100.365	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 200.720%#			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.166	85	126718	90.869	ug/l	95
3) Chloromethane	1.306	50	145825	85.936	ug/l	98
4) Vinyl Chloride	1.373	62	154734	93.360	ug/l	96
5) Bromomethane	1.593	94	57503	110.980	ug/l	97
6) Chloroethane	1.660	64	60155	95.351	ug/l	97
7) Trichlorofluoromethane	1.861	101	198701	93.594	ug/l	99
8) Diethyl Ether	2.135	74	78263	101.441	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.312	101	120518	95.064	ug/l	98
10) Methyl Iodide	2.440	142	153466	94.425	ug/l	99
11) Tert butyl alcohol	3.001	59	135016	493.141	ug/l	98
12) 1,1-Dichloroethene	2.306	96	125436	96.366	ug/l	98
13) Acrolein	2.239	56	180411	608.485	ug/l	99
14) Allyl chloride	2.654	41	220783	94.344	ug/l	98
15) Acrylonitrile	3.068	53	391946	526.749	ug/l	100
16) Acetone	2.392	43	348698	566.991	ug/l	99
17) Carbon Disulfide	2.495	76	345572	97.574	ug/l	98
18) Methyl Acetate	2.709	43	175784	94.899	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	431413	103.661	ug/l	100
20) Methylene Chloride	2.782	84	140388	96.381	ug/l	98
21) trans-1,2-Dichloroethene	3.080	96	128232	100.164	ug/l	98
22) Diisopropyl ether	3.763	45	467534	104.489	ug/l	98
23) Vinyl Acetate	3.721	43	2035880	554.219	ug/l	99
24) 1,1-Dichloroethane	3.605	63	257023	102.805	ug/l	100
25) 2-Butanone	4.562	43	559182	563.952	ug/l	99
26) 2,2-Dichloropropane	4.470	77	124805	67.148	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	155193	100.568	ug/l	99
28) Bromochloromethane	4.897	49	113848	94.428	ug/l	98
29) Tetrahydrofuran	5.007	42	365565	556.465	ug/l	100
30) Chloroform	5.092	83	248978	101.814	ug/l	97
31) Cyclohexane	5.464	56	231082	100.711	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	211302	102.638	ug/l	99
36) 1,1-Dichloropropene	5.690	75	172295	101.258	ug/l	99
37) Ethyl Acetate	4.720	43	220327	113.796	ug/l	99
38) Carbon Tetrachloride	5.671	117	177219	105.940	ug/l	97
39) Methylcyclohexane	7.372	83	219856	101.175	ug/l	99
40) Benzene	6.031	78	541974	101.908	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
 Data File : VX045072.D
 Acq On : 28 Feb 2025 03:23
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :John Carlone 02/28/2025
 Supervised By :Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 05:35:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 05:28:02 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	120186	116.205	ug/l	98
42) 1,2-Dichloroethane	6.086	62	189857	110.158	ug/l	99
43) Isopropyl Acetate	6.342	43	338414	109.806	ug/l	99
44) Trichloroethene	7.122	130	128124	105.402	ug/l	96
45) 1,2-Dichloropropane	7.427	63	135997	102.898	ug/l	100
46) Dibromomethane	7.580	93	97248	105.329	ug/l	99
47) Bromodichloromethane	7.817	83	191016	106.947	ug/l	97
48) Methyl methacrylate	7.695	41	165825	113.344	ug/l	99
49) 1,4-Dioxane	7.665	88	66308	2132.314	ug/l	99
51) 4-Methyl-2-Pentanone	8.573	43	1048140	555.050	ug/l	99
52) Toluene	8.714	92	316349	100.178	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	177352	100.462	ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	200943	101.815	ug/l	98
55) 1,1,2-Trichloroethane	9.146	97	123426	100.920	ug/l	99
56) Ethyl methacrylate	9.116	69	208782	106.744	ug/l	100
57) 1,3-Dichloropropane	9.305	76	216267	101.387	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	494551	514.987	ug/l	99
59) 2-Hexanone	9.433	43	779492	572.233	ug/l	99
60) Dibromochloromethane	9.518	129	139245	106.719	ug/l	99
61) 1,2-Dibromoethane	9.610	107	128617	104.259	ug/l	99
64) Tetrachloroethene	9.268	164	99386	103.491	ug/l	98
65) Chlorobenzene	10.079	112	332473	102.456	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.158	131	112451	107.511	ug/l	96
67) Ethyl Benzene	10.189	91	596257	103.905	ug/l	100
68) m/p-Xylenes	10.299	106	432214	204.507	ug/l	99
69) o-Xylene	10.640	106	213835	100.849	ug/l	99
70) Styrene	10.652	104	357649	104.948	ug/l	99
71) Bromoform	10.799	173	90800	116.751	ug/l #	99
73) Isopropylbenzene	10.963	105	553533	99.138	ug/l	99
74) N-amyl acetate	10.841	43	287104	113.277	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.213	83	192217	99.923	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	156259m	101.395	ug/l	
77) Bromobenzene	11.195	156	125700	99.175	ug/l	97
78) n-propylbenzene	11.305	91	648835	100.758	ug/l	99
79) 2-Chlorotoluene	11.359	91	382703	96.825	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	445466	98.356	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	51975	91.460	ug/l	99
82) 4-Chlorotoluene	11.451	91	433881	99.168	ug/l	100
83) tert-Butylbenzene	11.713	119	454859	99.288	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	450108	100.926	ug/l	99
85) sec-Butylbenzene	11.890	105	570006	100.517	ug/l	100
86) p-Isopropyltoluene	12.006	119	465512	102.252	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	231440	99.903	ug/l	100
88) 1,4-Dichlorobenzene	12.042	146	230663	98.355	ug/l	99
89) n-Butylbenzene	12.329	91	428209	107.000	ug/l	99
90) Hexachloroethane	12.536	117	87448	102.980	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	233125	102.254	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.938	75	41402	116.296	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	148368	107.648	ug/l	99
94) Hexachlorobutadiene	13.725	225	56065	102.019	ug/l	99
95) Naphthalene	13.774	128	565250	112.593	ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	152970	109.554	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045072.D
Acq On : 28 Feb 2025 03:23
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 05:35:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

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

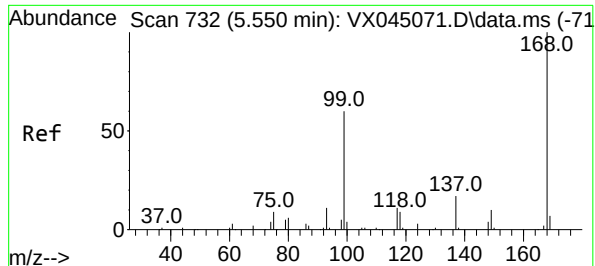
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025





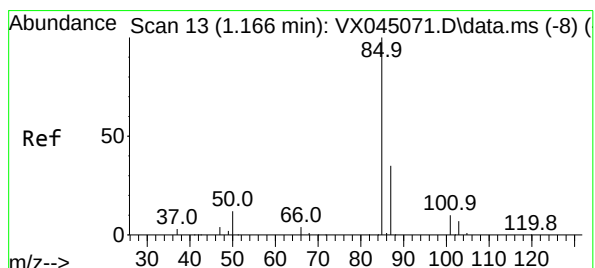
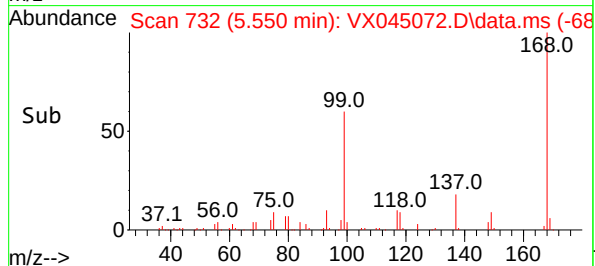
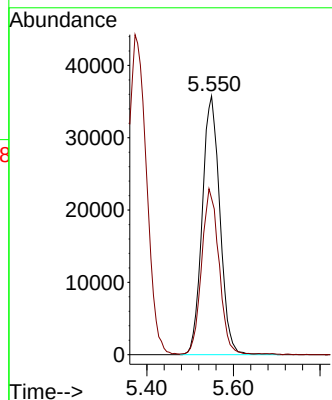
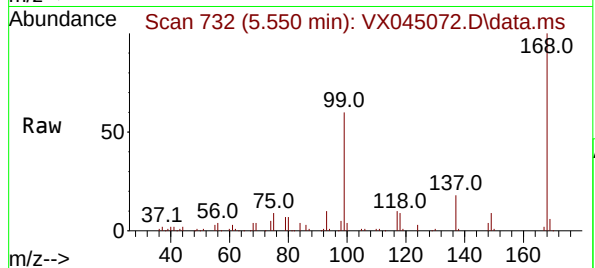
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tgt Ion:168 Resp: 101178
Ion Ratio Lower Upper
168 100
99 60.2 48.2 72.4

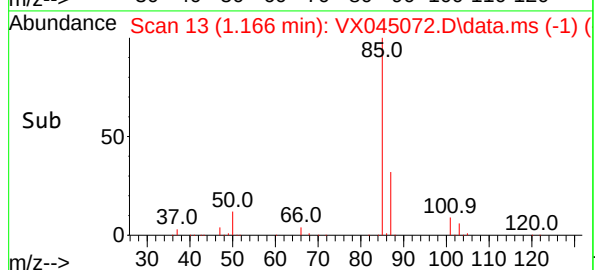
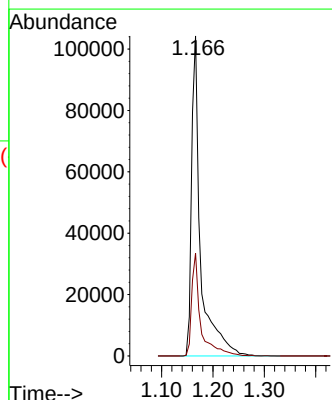
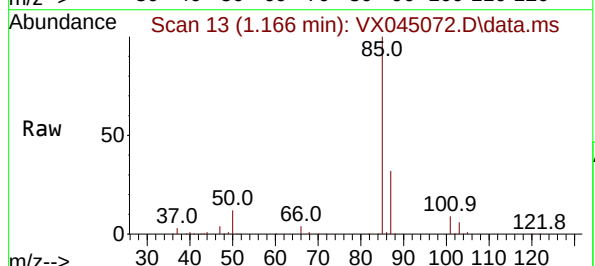
Manual Integrations
APPROVED

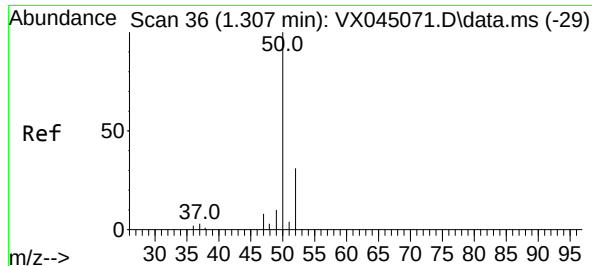
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#2
Dichlorodifluoromethane
Concen: 90.869 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

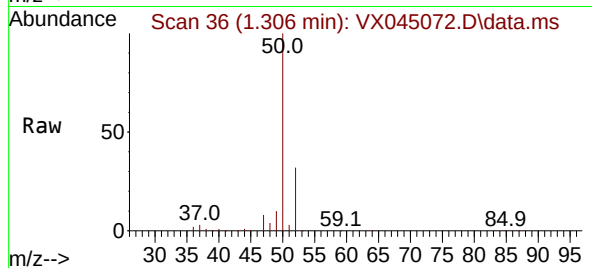
Tgt Ion: 85 Resp: 126718
Ion Ratio Lower Upper
85 100
87 32.1 17.4 52.3





#3
Chloromethane
Concen: 85.936 ug/l
RT: 1.306 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

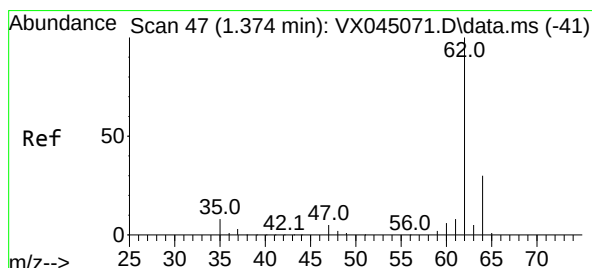
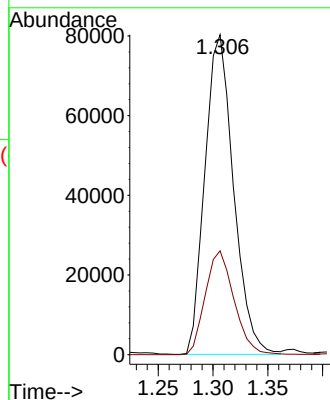
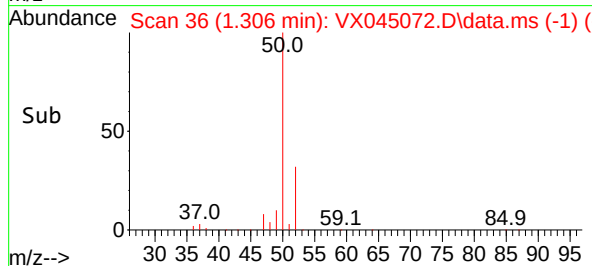
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 50 Resp: 145825
Ion Ratio Lower Upper
50 100
52 32.5 25.0 37.4

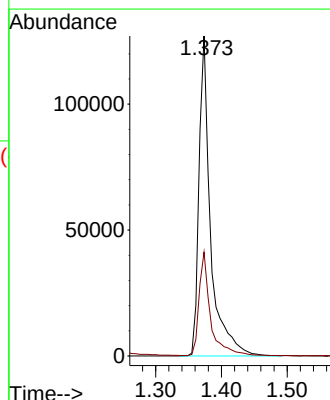
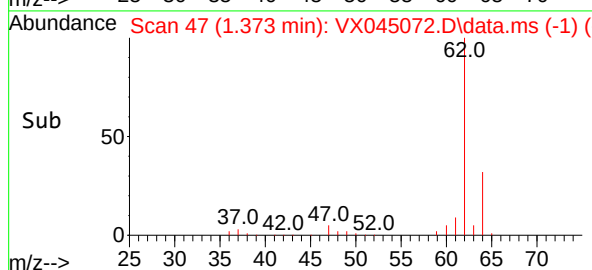
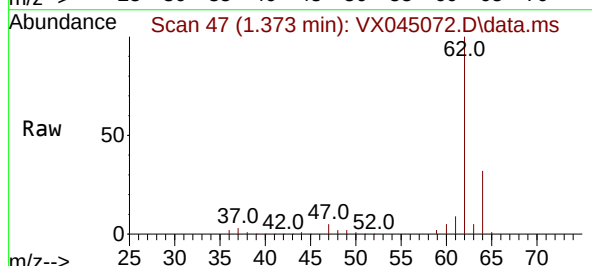
Manual Integrations
APPROVED

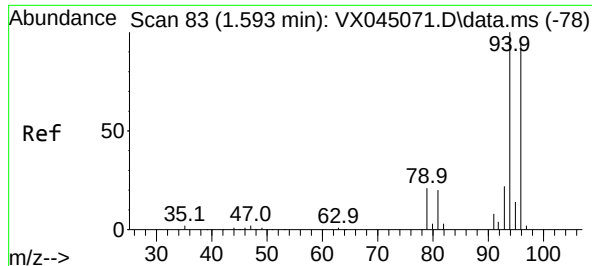
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#4
Vinyl Chloride
Concen: 93.360 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 62 Resp: 154734
Ion Ratio Lower Upper
62 100
64 32.4 24.3 36.5





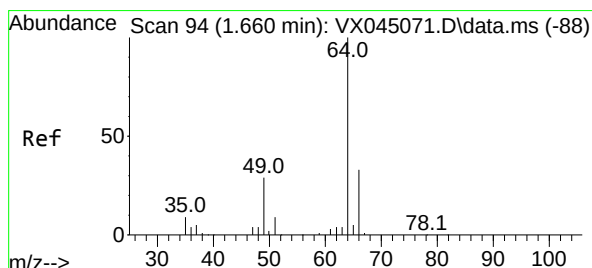
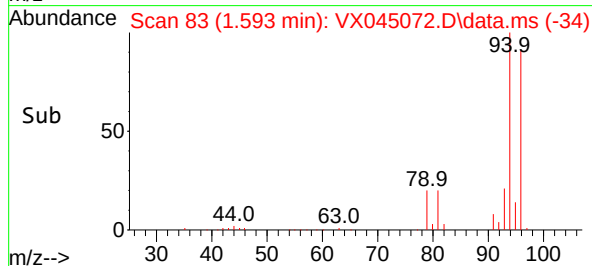
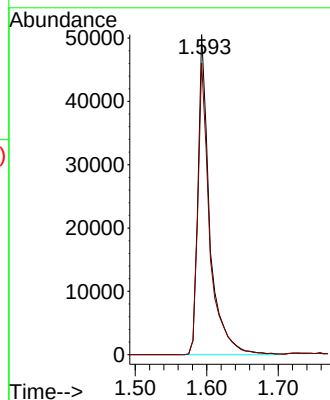
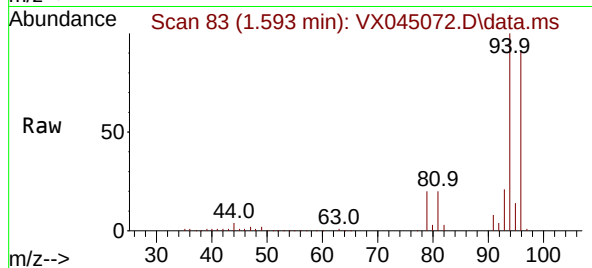
#5
Bromomethane
Concen: 110.980 ug/l
RT: 1.593 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 5750
Ion Ratio Lower Upper
94 100
96 91.2 75.0 112.4

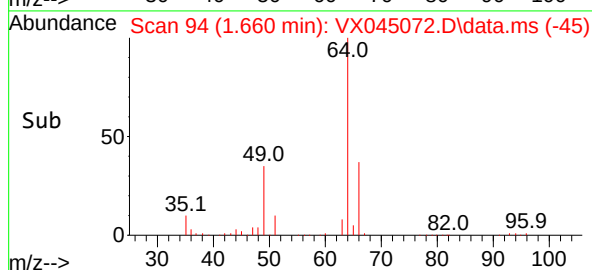
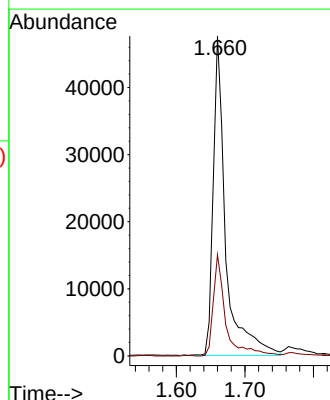
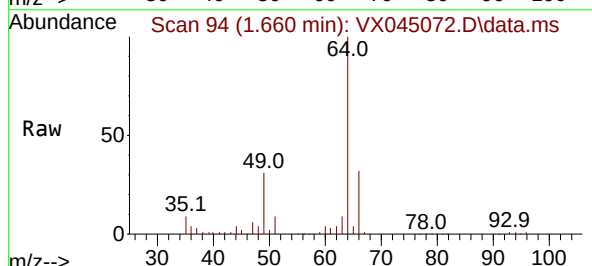
Manual Integrations
APPROVED

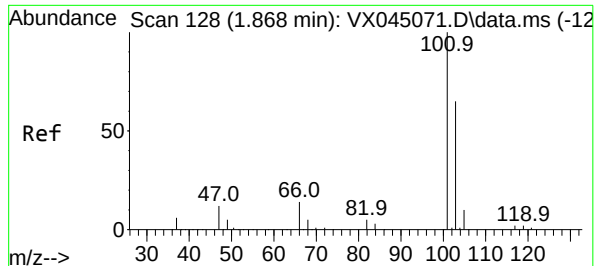
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#6
Chloroethane
Concen: 95.351 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

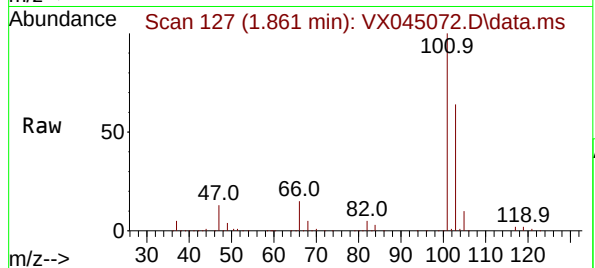
Tgt Ion: 64 Resp: 60155
Ion Ratio Lower Upper
64 100
66 31.7 26.7 40.1





#7
Trichlorofluoromethane
Concen: 93.594 ug/l
RT: 1.861 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

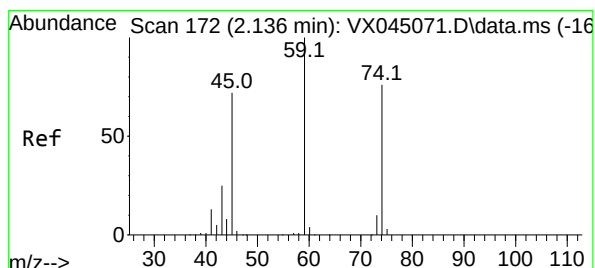
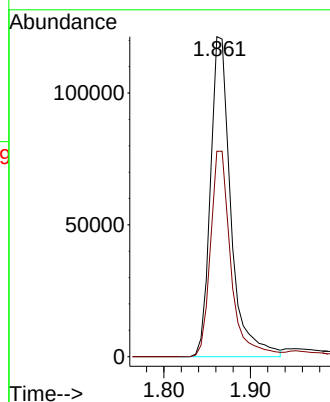
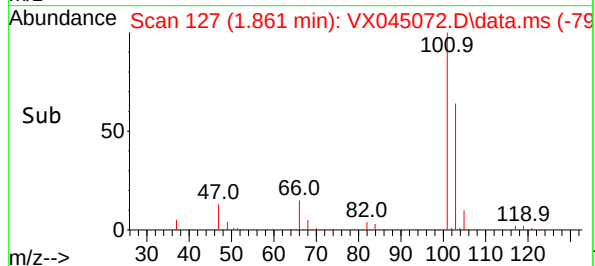
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:101 Resp: 19870
Ion Ratio Lower Upper
101 100
103 64.2 52.1 78.1

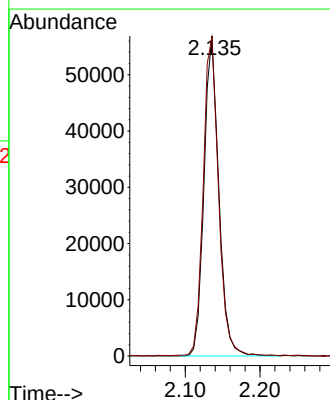
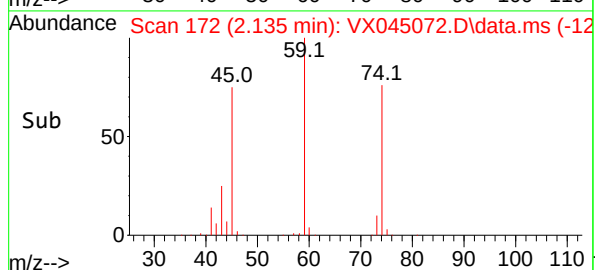
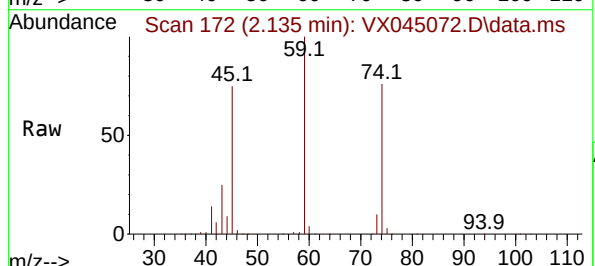
Manual Integrations
APPROVED

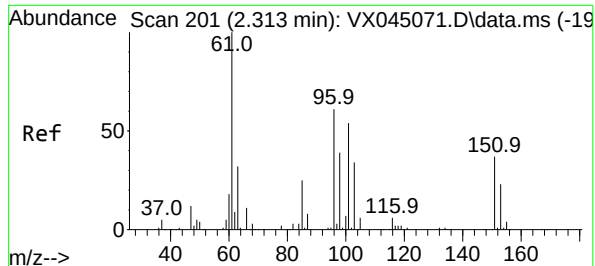
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#8
Diethyl Ether
Concen: 101.441 ug/l
RT: 2.135 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 74 Resp: 78263
Ion Ratio Lower Upper
74 100
45 102.7 51.5 154.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 95.064 ug/l

RT: 2.312 min Scan# 201

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:101 Resp: 120518

Ion Ratio Lower Upper

101 100

85 46.5 36.2 54.4

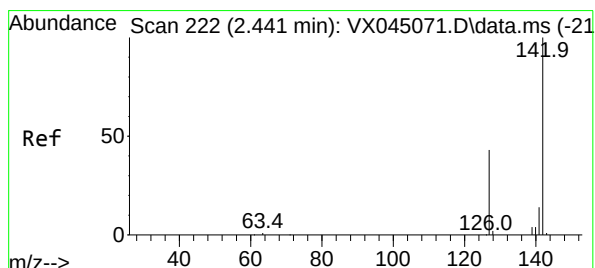
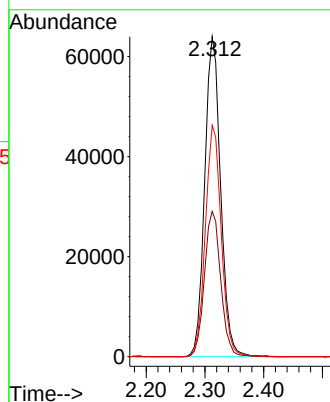
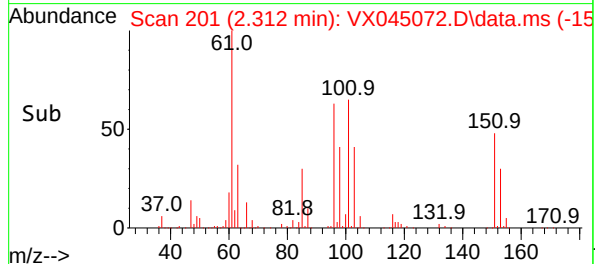
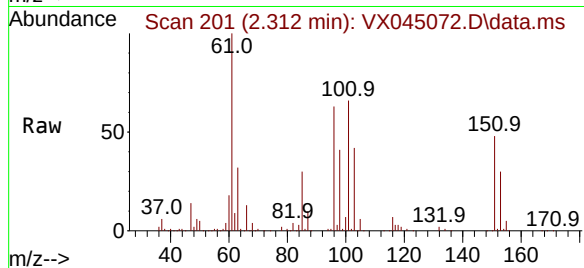
151 72.4 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#10

Methyl Iodide

Concen: 94.425 ug/l

RT: 2.440 min Scan# 222

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

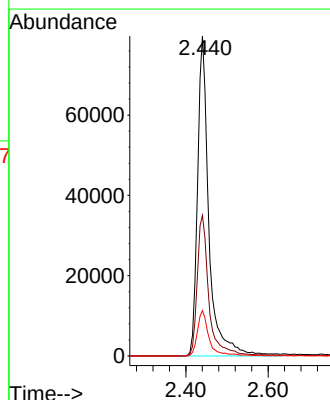
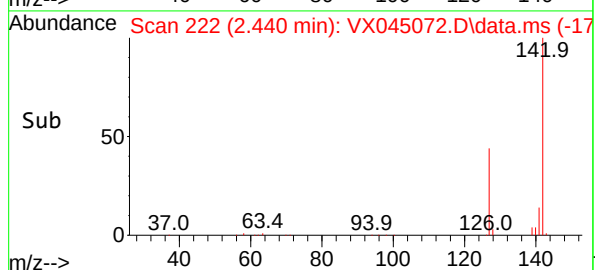
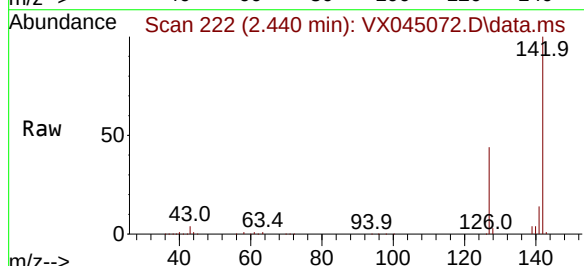
Tgt Ion:142 Resp: 153466

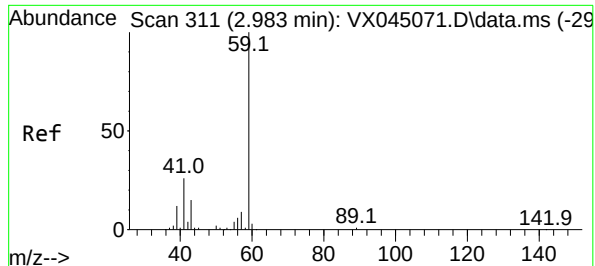
Ion Ratio Lower Upper

142 100

127 45.0 35.4 53.2

141 14.4 11.6 17.4





#11

Tert butyl alcohol

Concen: 493.141 ug/l

RT: 3.001 min Scan# 311

Delta R.T. 0.018 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 59 Resp: 135010

Ion Ratio Lower Upper

59 100

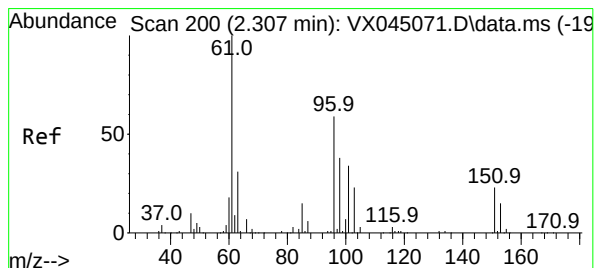
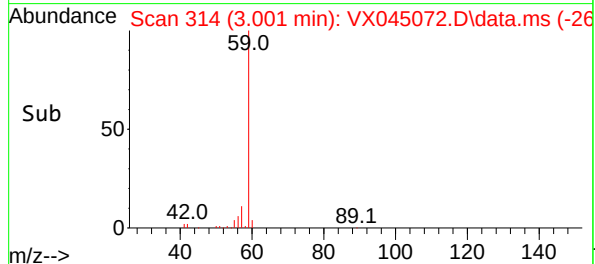
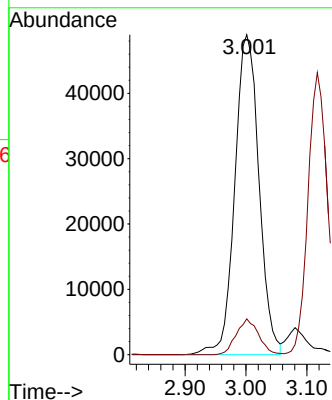
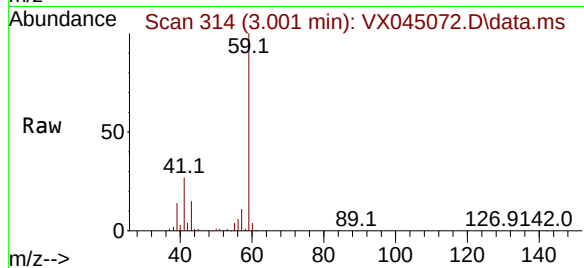
57 10.4 7.8 11.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#12

1,1-Dichloroethene

Concen: 96.366 ug/l

RT: 2.306 min Scan# 200

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

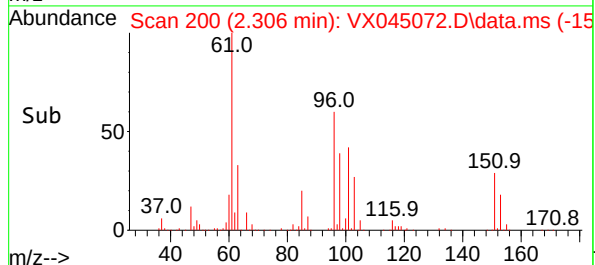
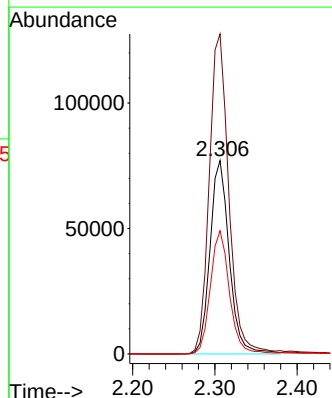
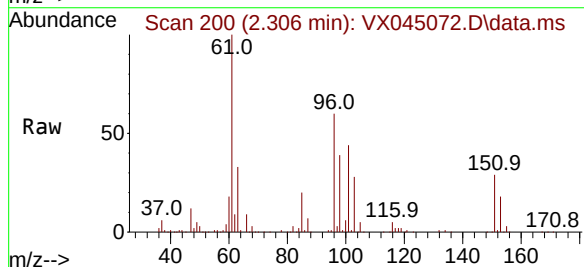
Tgt Ion: 96 Resp: 125436

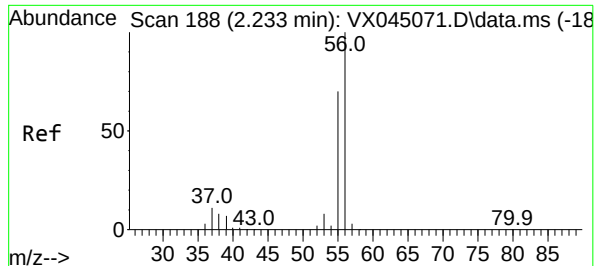
Ion Ratio Lower Upper

96 100

61 165.4 134.6 202.0

98 63.7 51.0 76.6





#13

Acrolein

Concen: 608.485 ug/l

RT: 2.239 min Scan# 188

Delta R.T. 0.006 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 18041

Ion Ratio Lower Upper

56 100

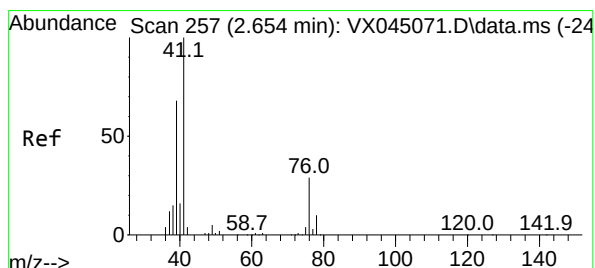
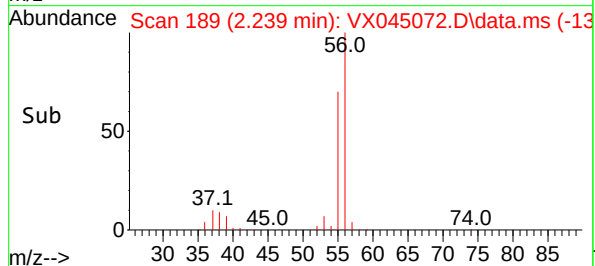
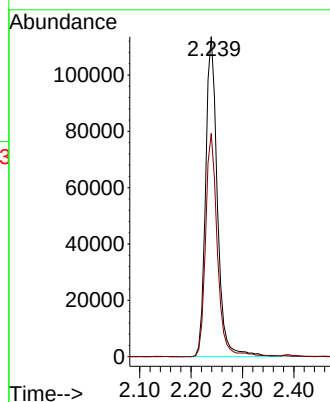
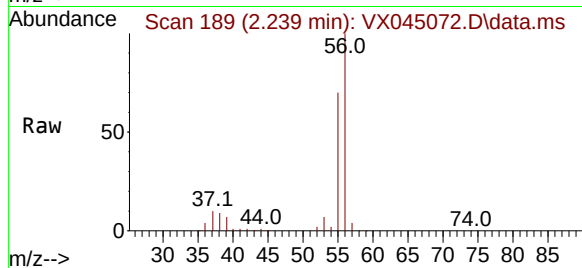
55 69.8 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#14

Allyl chloride

Concen: 94.344 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

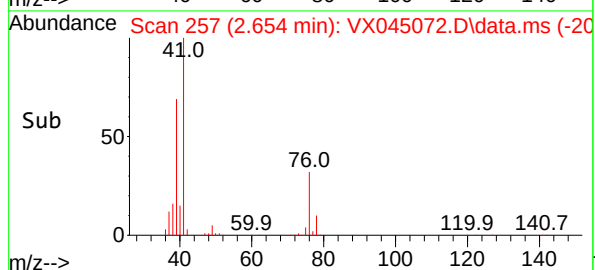
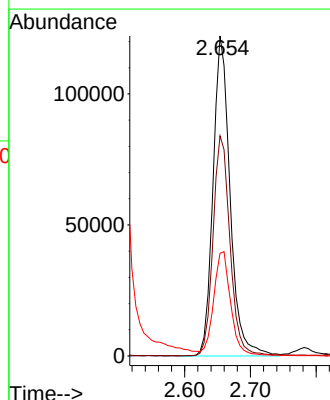
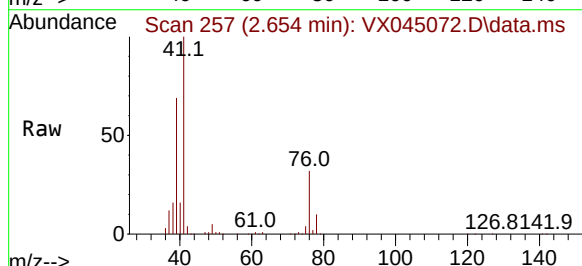
Tgt Ion: 41 Resp: 220783

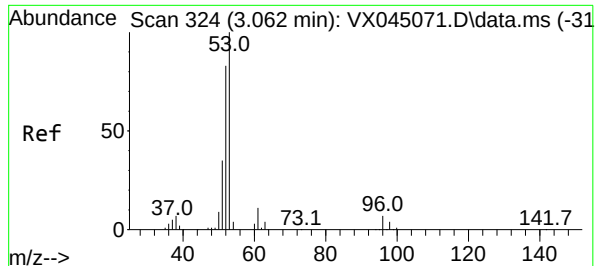
Ion Ratio Lower Upper

41 100

39 68.4 53.8 80.8

76 32.6 25.2 37.8





#15

Acrylonitrile

Concen: 526.749 ug/l

RT: 3.068 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

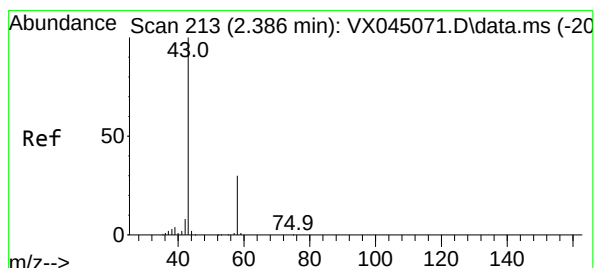
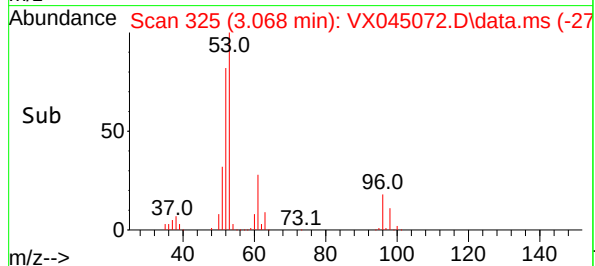
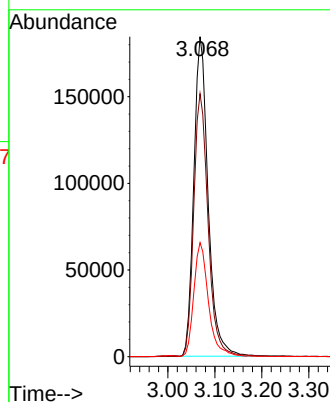
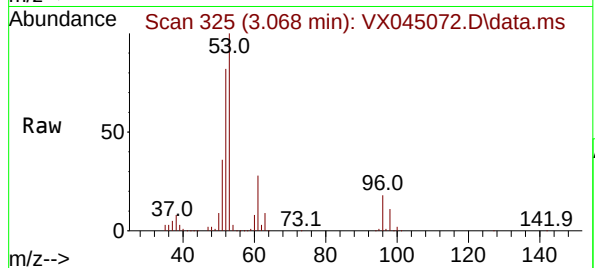
Tgt Ion:	53	Resp:	391940
Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.2	99.2
51	36.6	29.0	43.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#16

Acetone

Concen: 566.991 ug/l

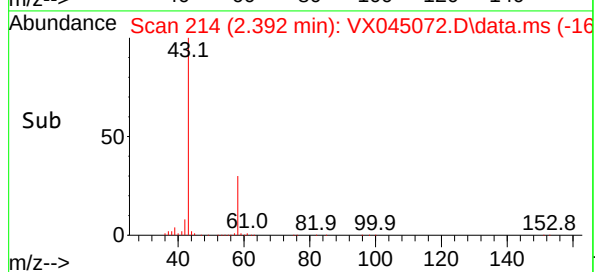
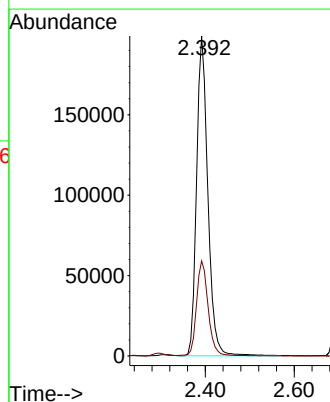
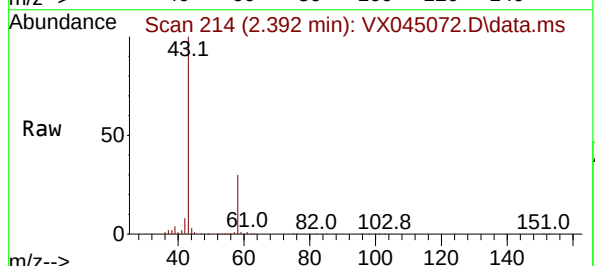
RT: 2.392 min Scan# 214

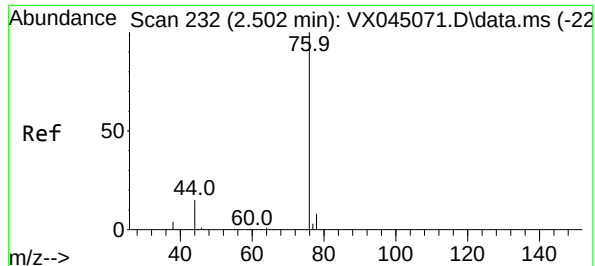
Delta R.T. 0.006 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Tgt Ion:	43	Resp:	348698
Ion	Ratio	Lower	Upper
43	100		
58	29.7	24.2	36.4





#17

Carbon Disulfide

Concen: 97.574 ug/l

RT: 2.495 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 76 Resp: 345572

Ion Ratio Lower Upper

76 100

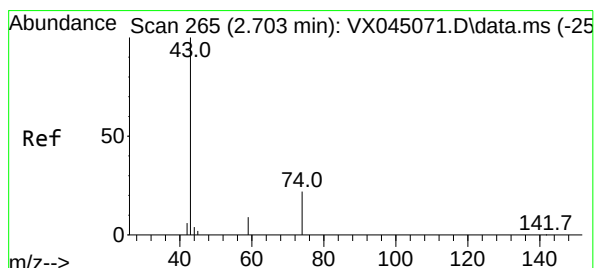
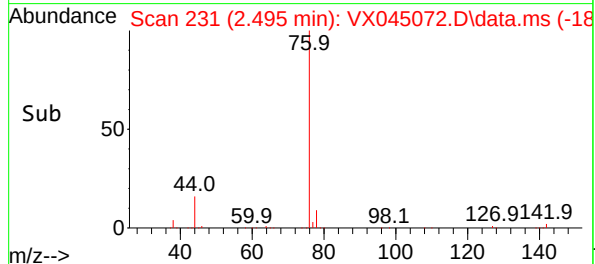
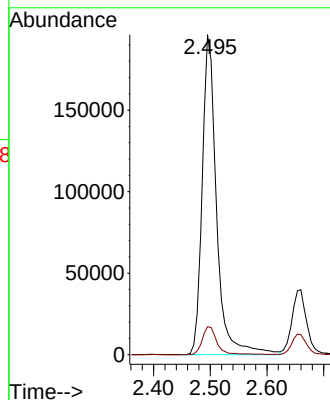
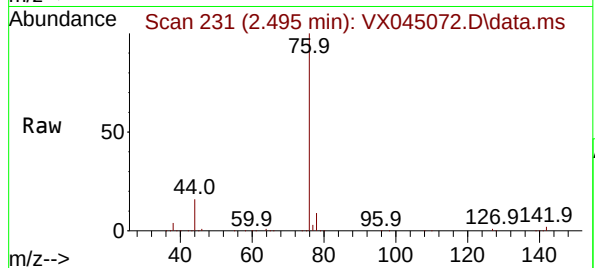
78 8.7 6.6 9.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#18

Methyl Acetate

Concen: 94.899 ug/l

RT: 2.709 min Scan# 266

Delta R.T. 0.006 min

Lab File: VX045072.D

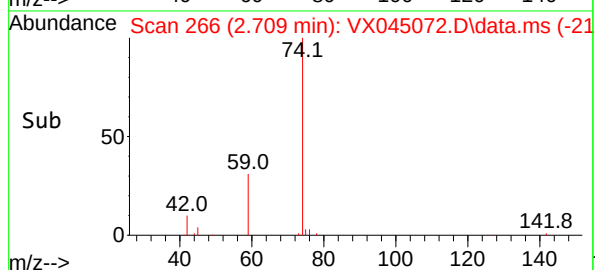
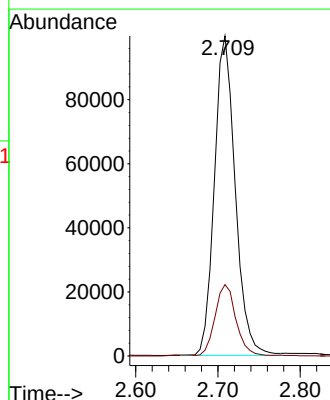
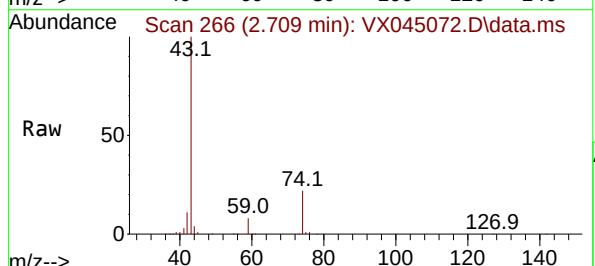
Acq: 28 Feb 2025 03:23

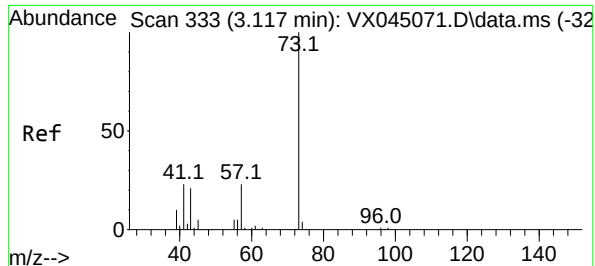
Tgt Ion: 43 Resp: 175784

Ion Ratio Lower Upper

43 100

74 22.7 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 103.661 ug/l

RT: 3.117 min Scan# 333

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 73 Resp: 43141

Ion Ratio Lower Upper

73 100

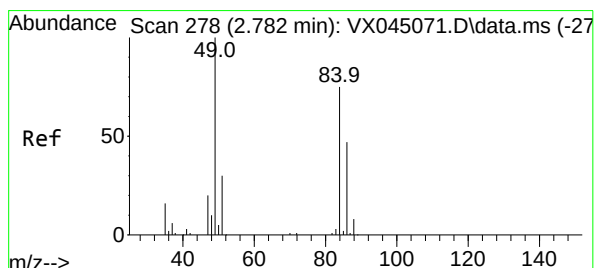
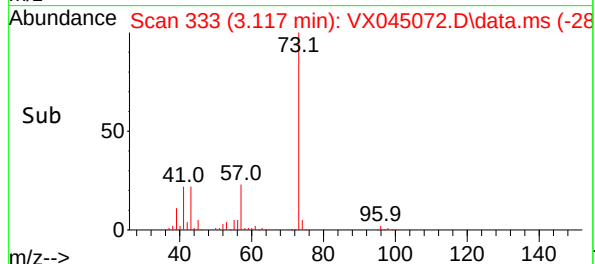
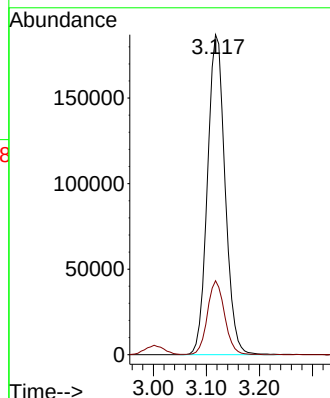
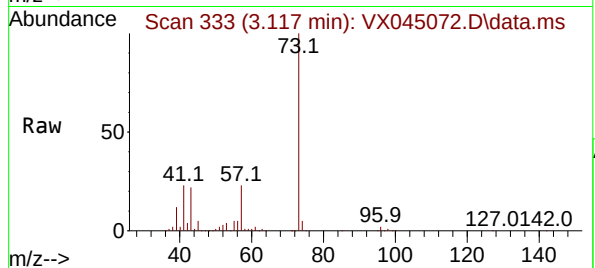
57 23.0 18.5 27.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#20

Methylene Chloride

Concen: 96.381 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Tgt Ion: 84 Resp: 140388

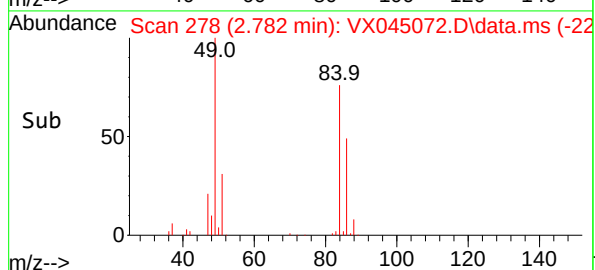
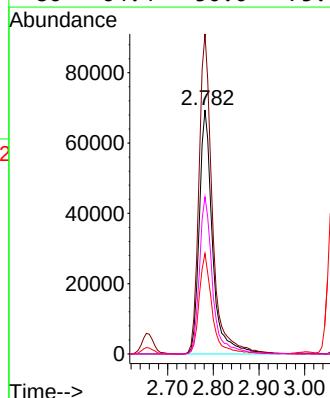
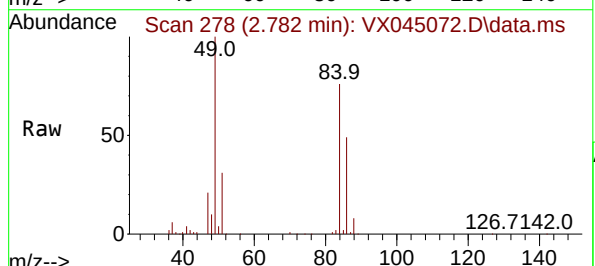
Ion Ratio Lower Upper

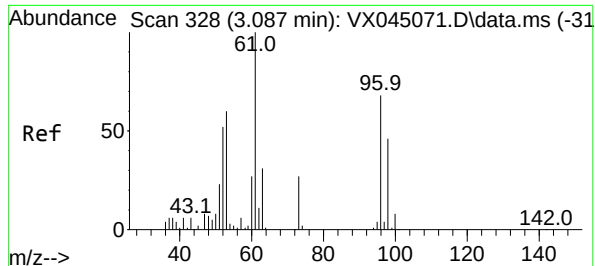
84 100

49 131.2 106.5 159.7

51 41.2 32.1 48.1

86 64.4 50.0 75.0





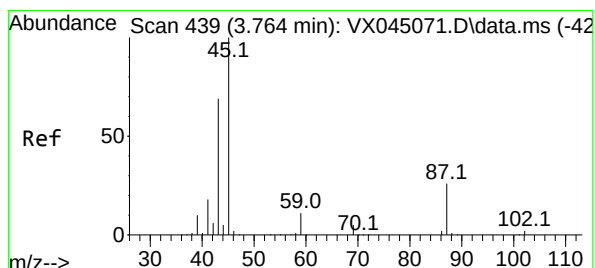
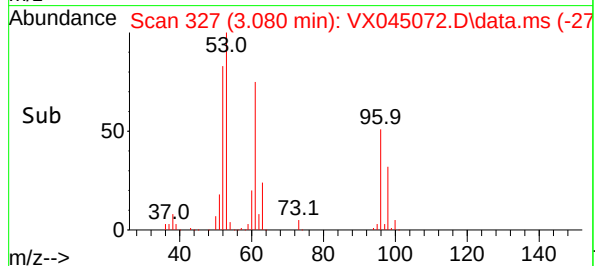
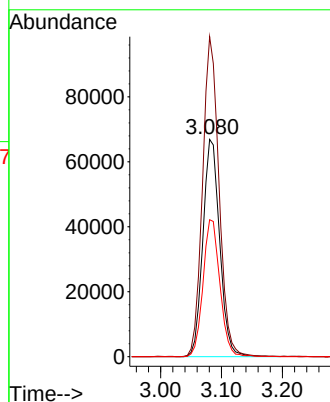
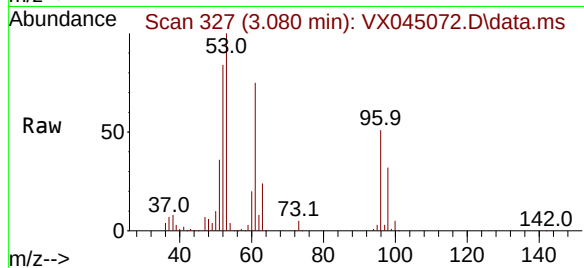
#21
trans-1,2-Dichloroethene
Concen: 100.164 ug/l
RT: 3.080 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 12823
Ion Ratio Lower Upper
96 100
61 147.3 117.0 175.4
98 63.0 53.4 80.2

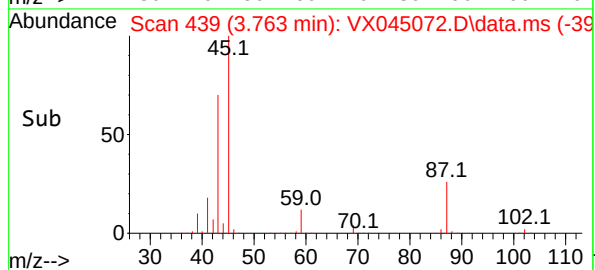
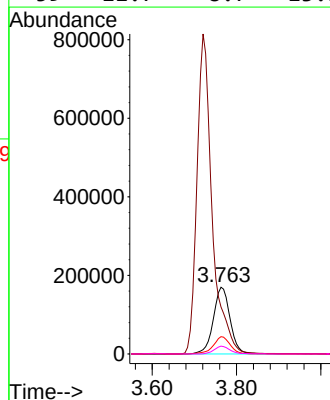
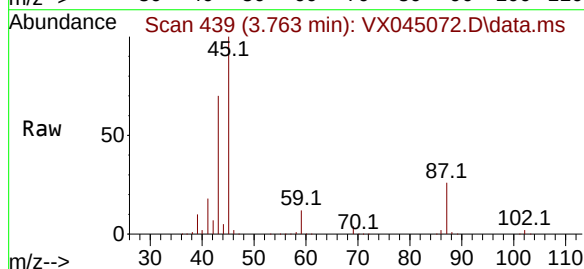
Manual Integrations
APPROVED

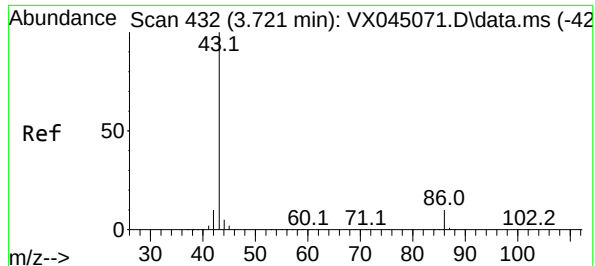
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#22
Diisopropyl ether
Concen: 104.489 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 45 Resp: 467534
Ion Ratio Lower Upper
45 100
43 70.4 54.9 82.3
87 26.0 21.0 31.4
59 11.7 8.7 13.1





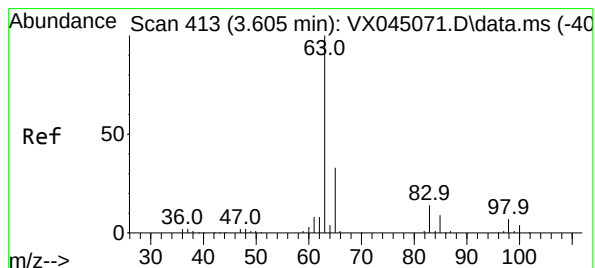
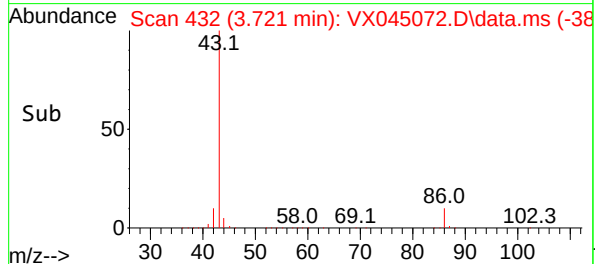
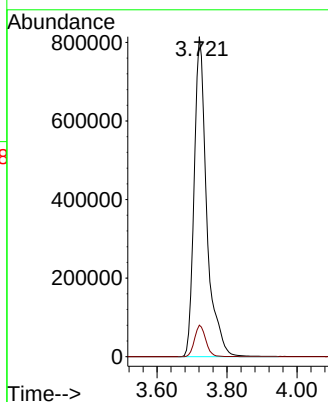
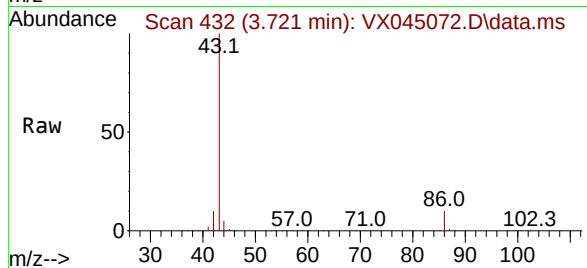
#23
Vinyl Acetate
Concen: 554.219 ug/l
RT: 3.721 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 2035880
Ion Ratio Lower Upper
43 100
86 9.9 8.1 12.1

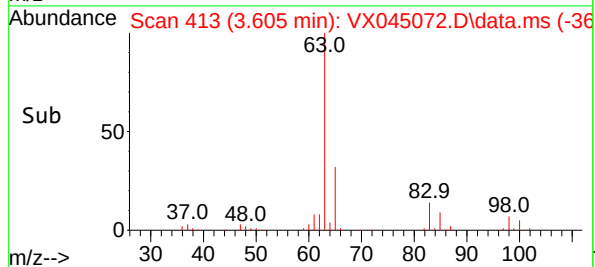
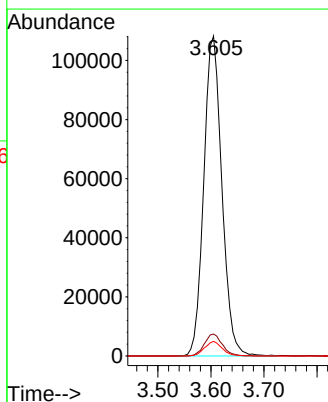
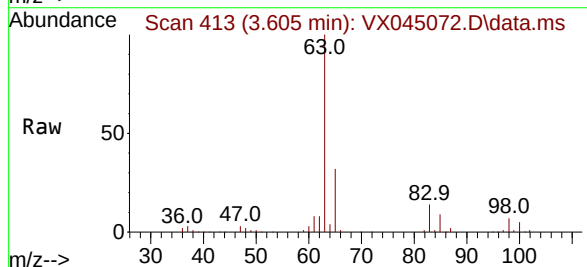
Manual Integrations
APPROVED

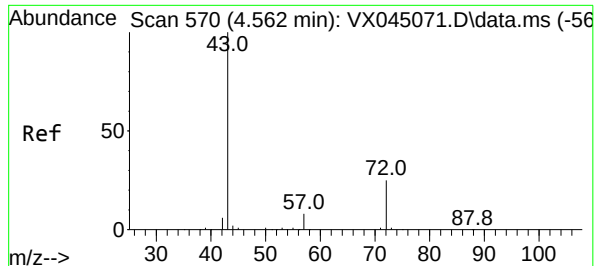
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#24
1,1-Dichloroethane
Concen: 102.805 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 63 Resp: 257023
Ion Ratio Lower Upper
63 100
98 6.8 3.4 10.2
100 4.6 2.1 6.5





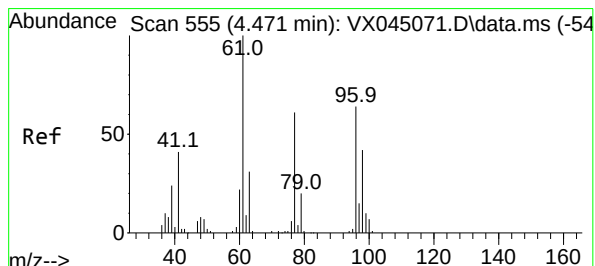
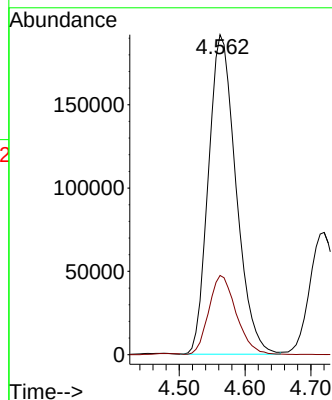
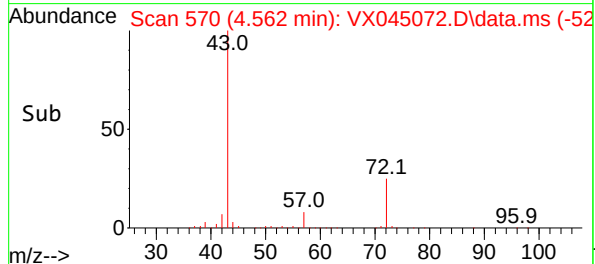
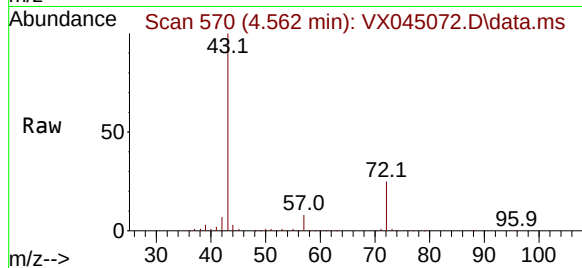
#25
2-Butanone
Concen: 563.952 ug/l
RT: 4.562 min Scan# 570
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 55918
Ion Ratio Lower Upper
43 100
72 24.6 20.0 30.0

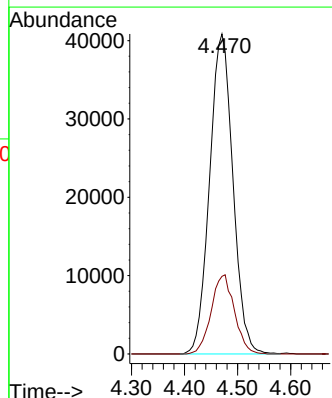
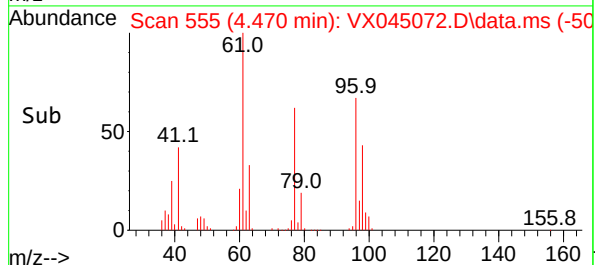
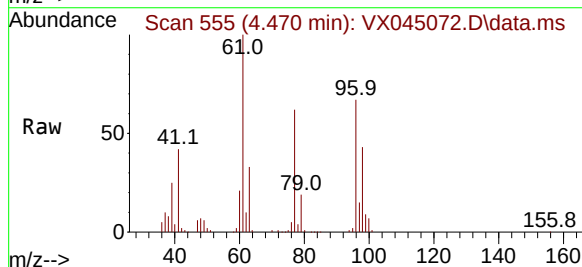
Manual Integrations
APPROVED

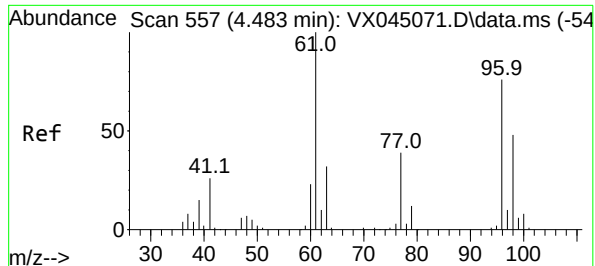
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#26
2,2-Dichloropropane
Concen: 67.148 ug/l
RT: 4.470 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 77 Resp: 124805
Ion Ratio Lower Upper
77 100
97 24.6 12.4 37.0





#27

cis-1,2-Dichloroethene

Concen: 100.568 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 96 Resp: 15519

Ion Ratio Lower Upper

96 100

61 143.8 0.0 283.2

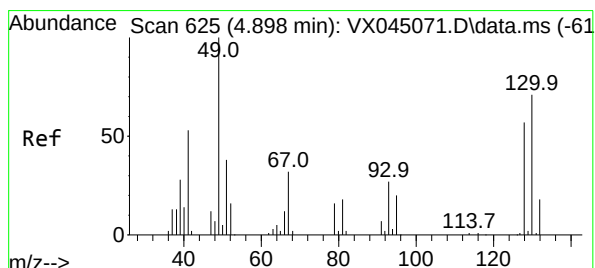
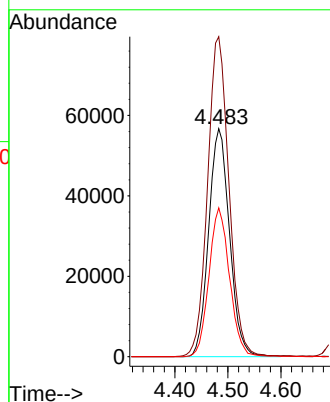
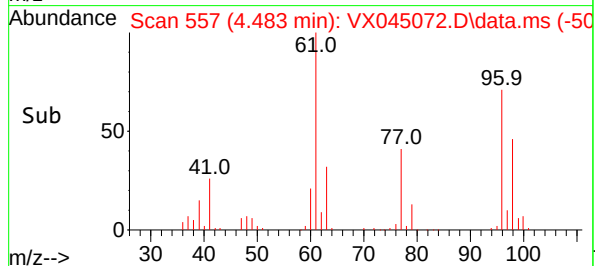
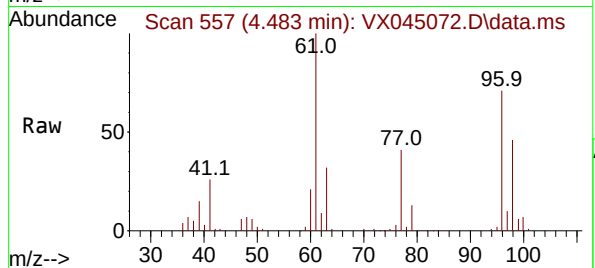
98 64.3 0.0 128.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#28

Bromochloromethane

Concen: 94.428 ug/l

RT: 4.897 min Scan# 625

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

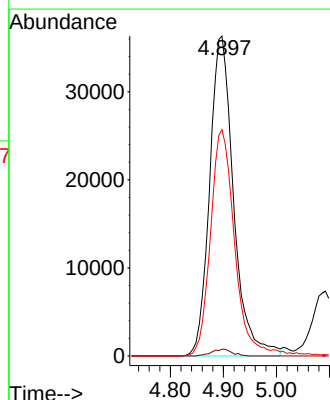
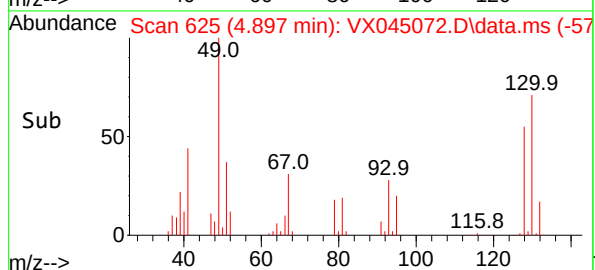
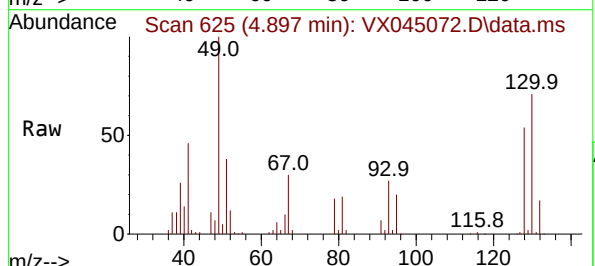
Tgt Ion: 49 Resp: 113848

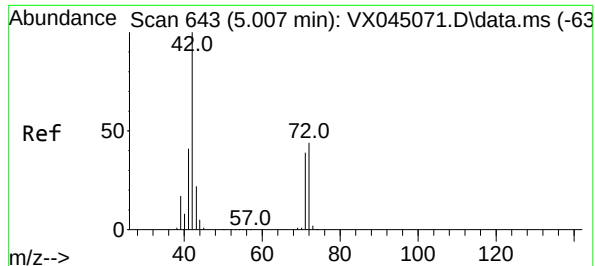
Ion Ratio Lower Upper

49 100

129 1.8 0.0 3.4

130 72.2 56.1 84.1





#29

Tetrahydrofuran

Concen: 556.465 ug/l

RT: 5.007 min Scan# 64

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 42 Resp: 36556

Ion Ratio Lower Upper

42 100

72 42.1 34.1 51.1

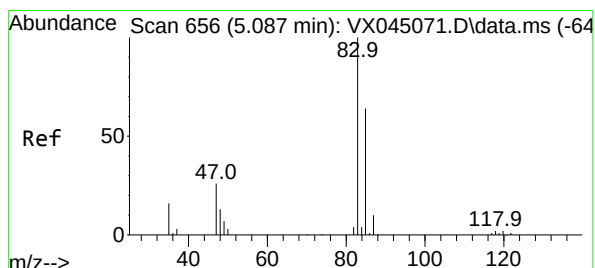
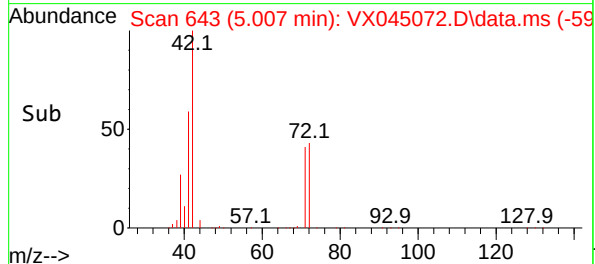
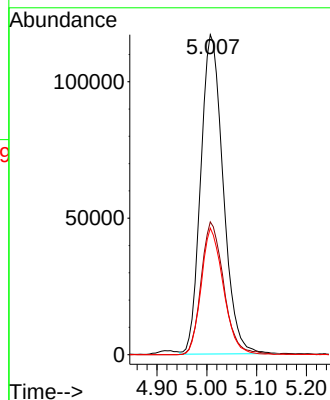
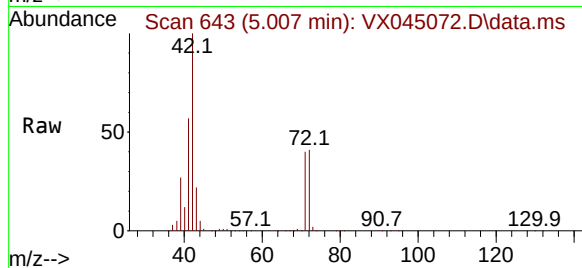
71 39.2 31.4 47.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#30

Chloroform

Concen: 101.814 ug/l

RT: 5.092 min Scan# 657

Delta R.T. 0.006 min

Lab File: VX045072.D

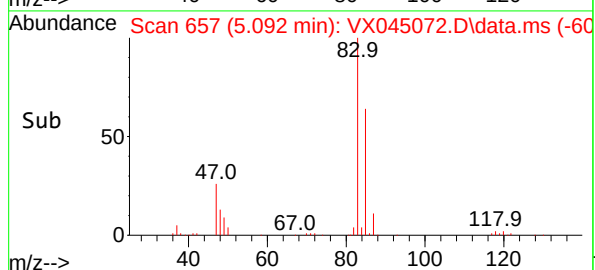
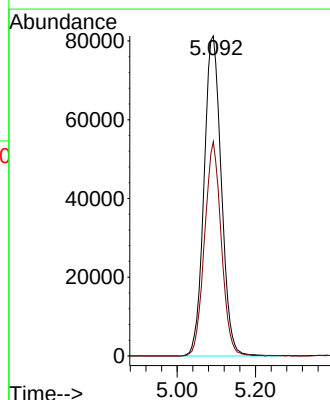
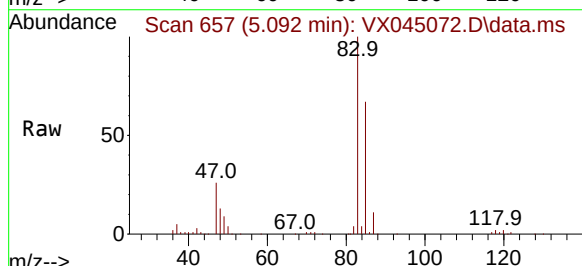
Acq: 28 Feb 2025 03:23

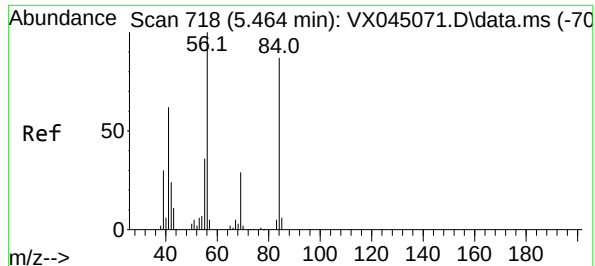
Tgt Ion: 83 Resp: 248978

Ion Ratio Lower Upper

83 100

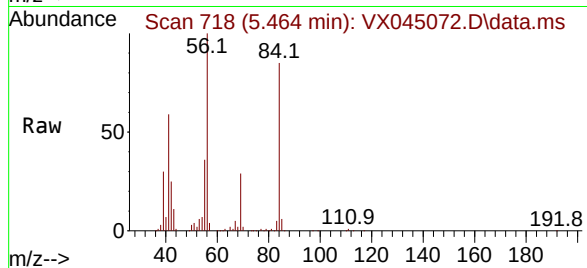
85 66.9 51.4 77.2





#31
Cyclohexane
Concen: 100.711 ug/l
RT: 5.464 min Scan# 718
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

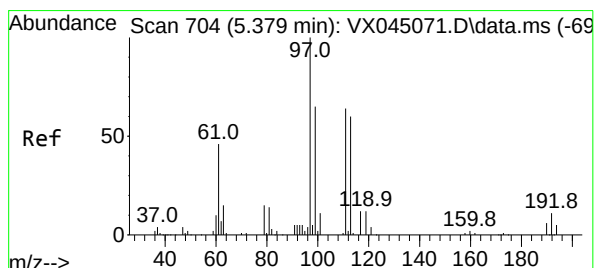
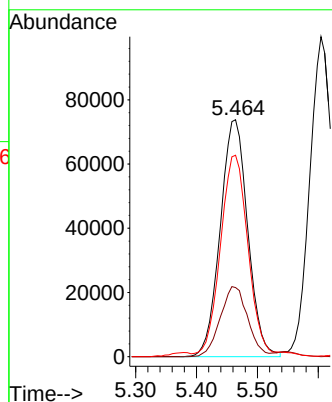
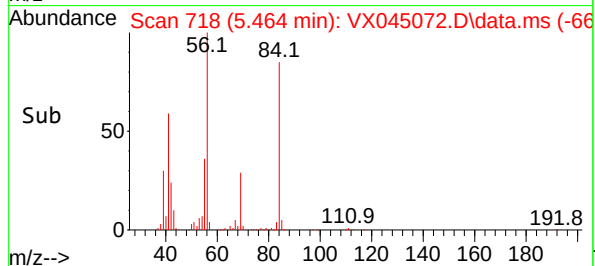
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 56 Resp: 23108
Ion Ratio Lower Upper
56 100
69 29.1 23.4 35.2
84 83.3 69.4 104.2

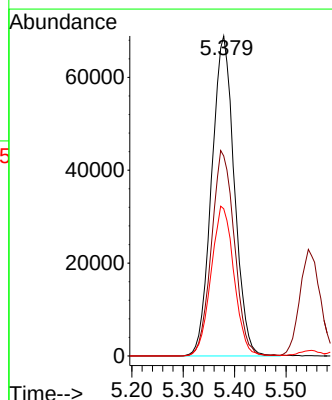
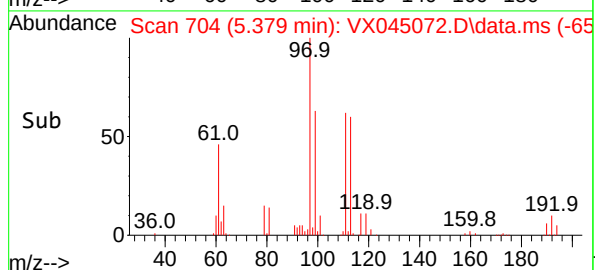
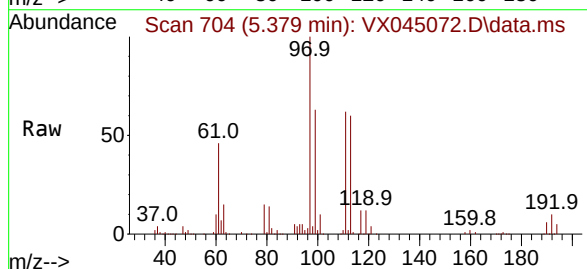
Manual Integrations
APPROVED

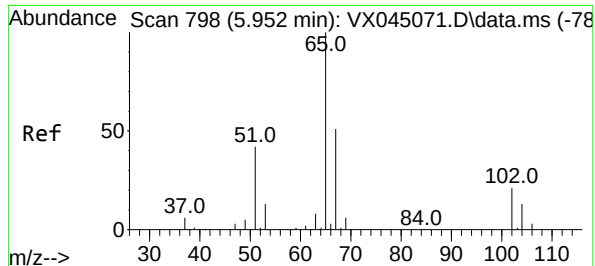
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#32
1,1,1-Trichloroethane
Concen: 102.638 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 97 Resp: 211302
Ion Ratio Lower Upper
97 100
99 64.7 51.6 77.4
61 47.3 38.4 57.6





#33

1,2-Dichloroethane-d4

Concen: 106.011 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 65 Resp: 158452

Ion Ratio Lower Upper

65 100

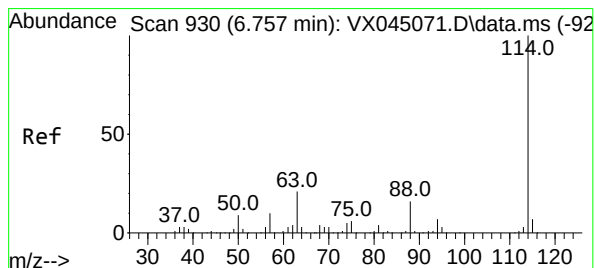
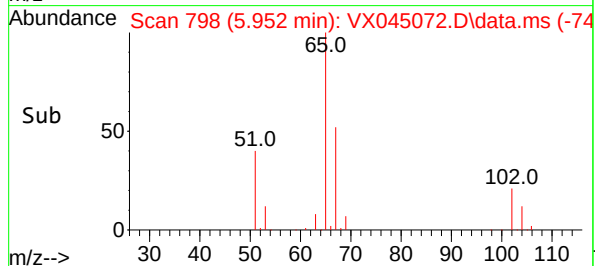
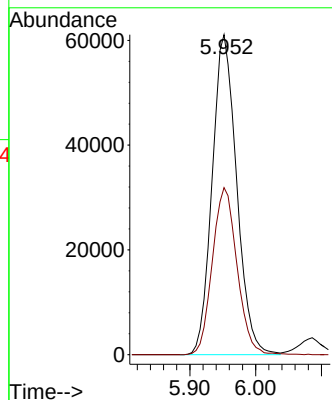
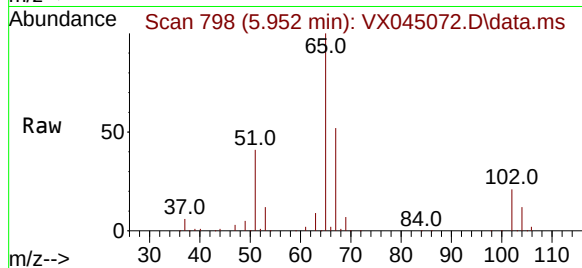
67 52.5 0.0 106.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

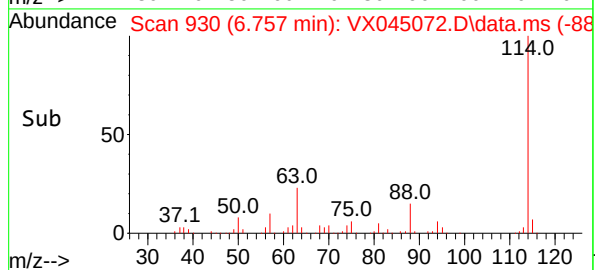
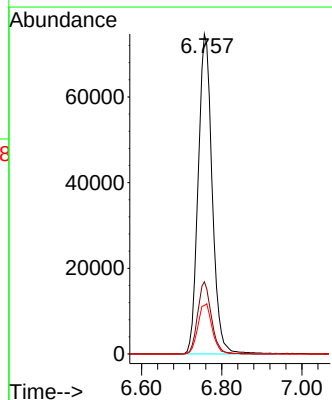
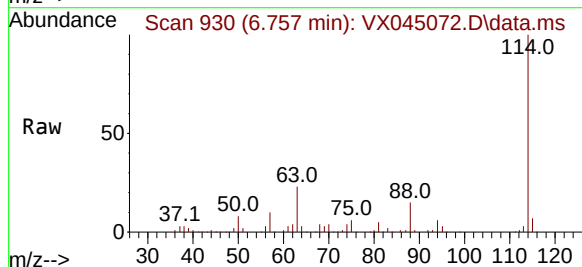
Tgt Ion:114 Resp: 181031

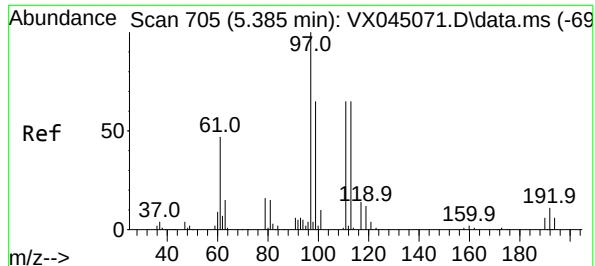
Ion Ratio Lower Upper

114 100

63 22.5 0.0 41.8

88 15.1 0.0 32.8





#35

Dibromofluoromethane

Concen: 104.110 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX045072.D

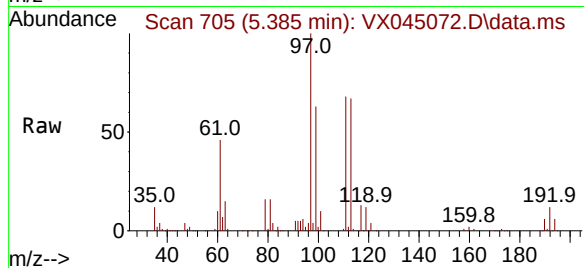
Acq: 28 Feb 2025 03:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100



Tgt Ion:113 Resp: 12318

Ion Ratio Lower Upper

113 100

111 102.1 81.8 122.6

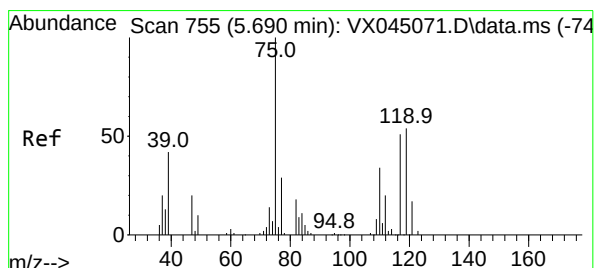
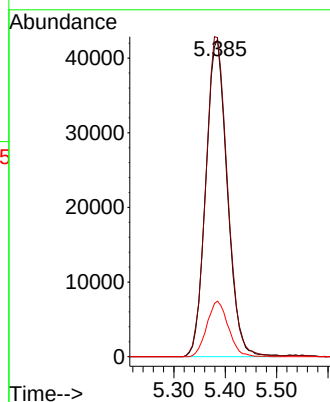
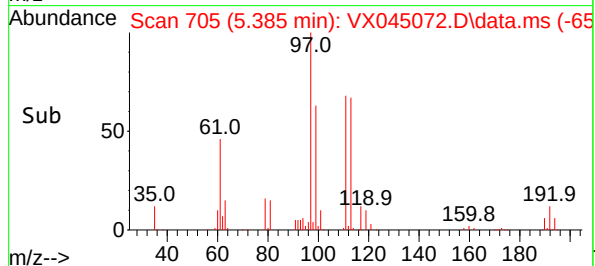
192 17.5 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#36

1,1-Dichloropropene

Concen: 101.258 ug/l

RT: 5.690 min Scan# 755

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

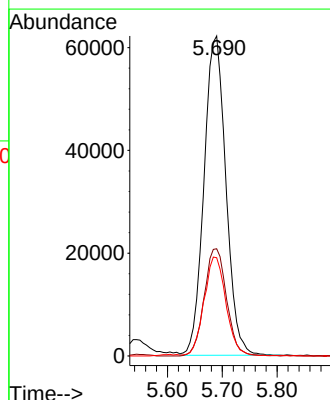
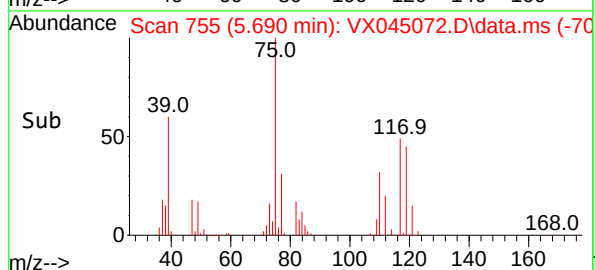
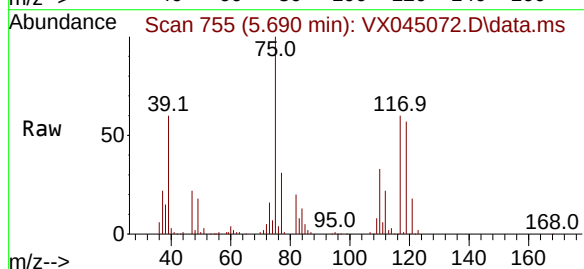
Tgt Ion: 75 Resp: 172295

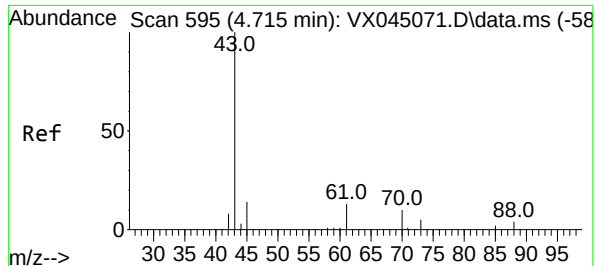
Ion Ratio Lower Upper

75 100

110 34.4 16.9 50.6

77 31.0 24.5 36.7





#37

Ethyl Acetate

Concen: 113.796 ug/l

RT: 4.720 min Scan# 596

Delta R.T. 0.006 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 22032

Ion Ratio Lower Upper

43 100

61 12.6 10.8 16.2

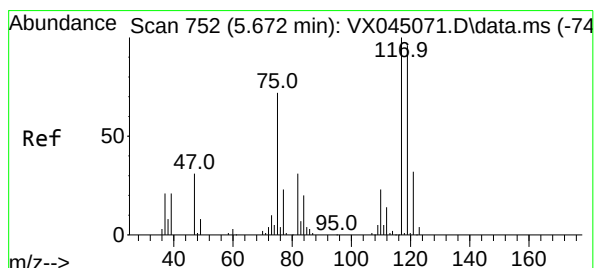
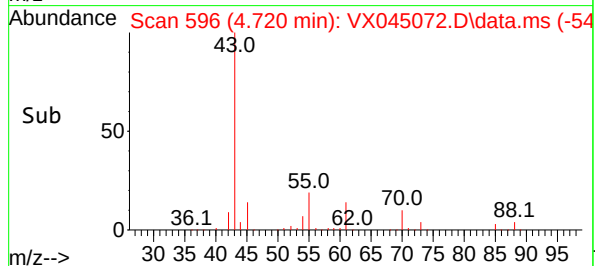
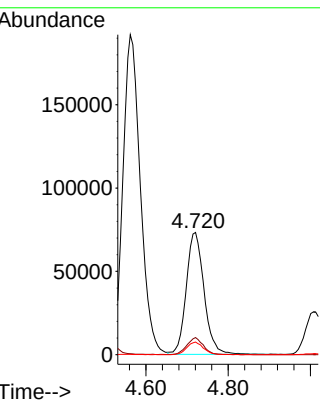
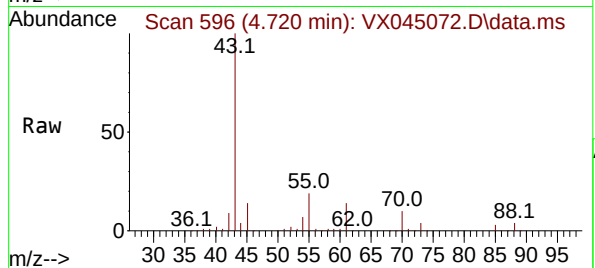
70 9.6 7.7 11.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#38

Carbon Tetrachloride

Concen: 105.940 ug/l

RT: 5.671 min Scan# 752

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

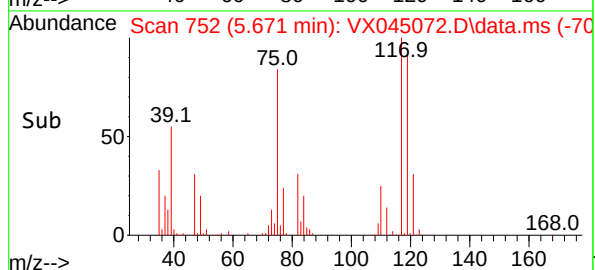
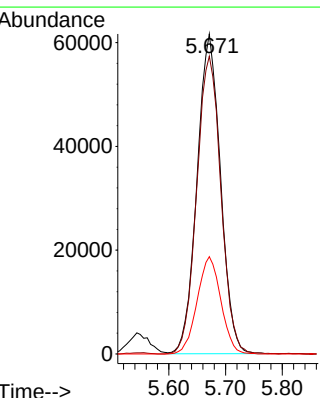
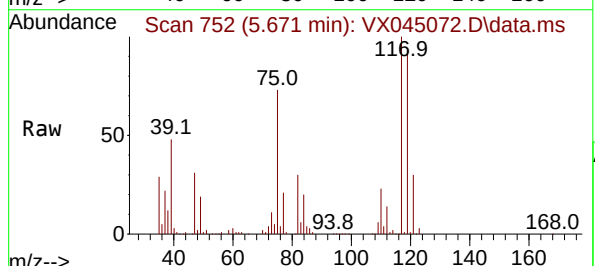
Tgt Ion:117 Resp: 177219

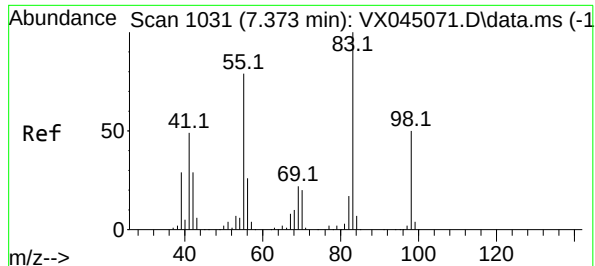
Ion Ratio Lower Upper

117 100

119 93.0 76.7 115.1

121 30.4 25.5 38.3





#39

Methylcyclohexane

Concen: 101.175 ug/l

RT: 7.372 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 83 Resp: 219850

Ion Ratio Lower Upper

83 100

55 80.6 63.0 94.4

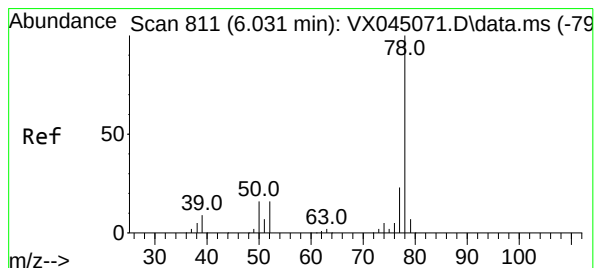
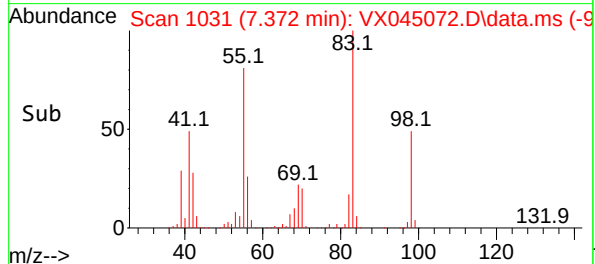
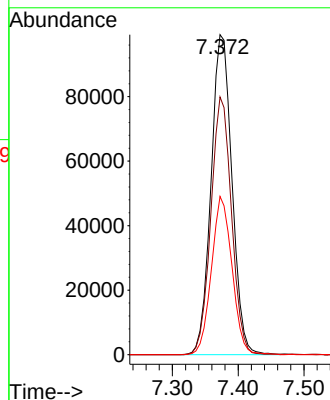
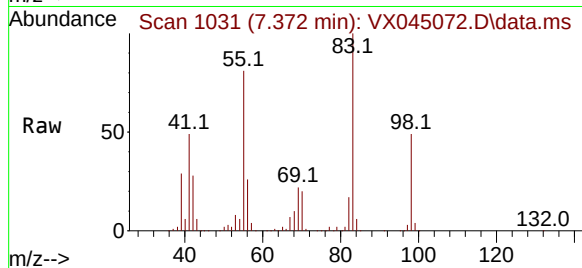
98 49.5 39.7 59.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#40

Benzene

Concen: 101.908 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX045072.D

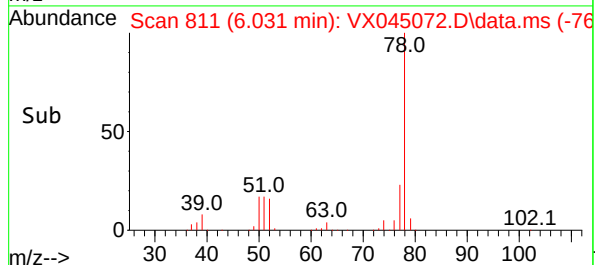
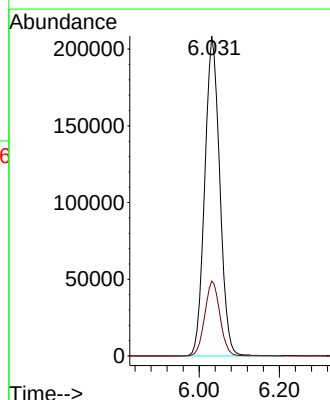
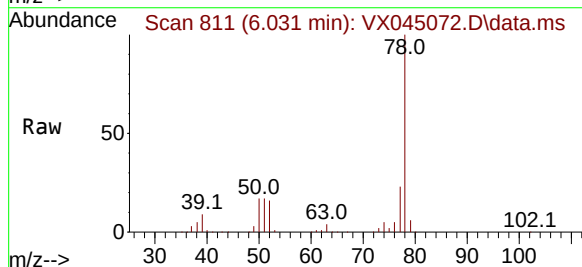
Acq: 28 Feb 2025 03:23

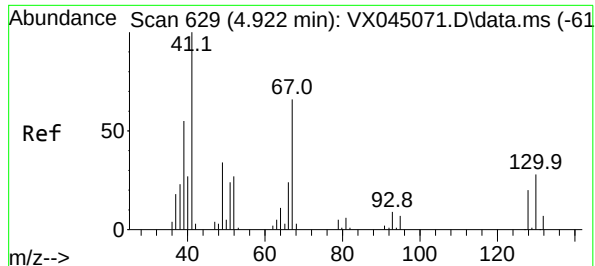
Tgt Ion: 78 Resp: 541974

Ion Ratio Lower Upper

78 100

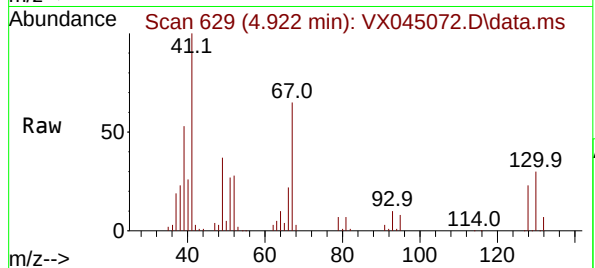
77 23.4 18.8 28.2





#41
Methacrylonitrile
Concen: 116.205 ug/l
RT: 4.922 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

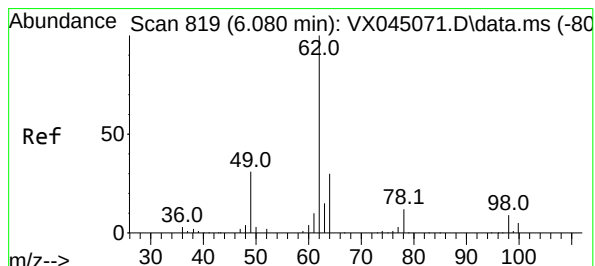
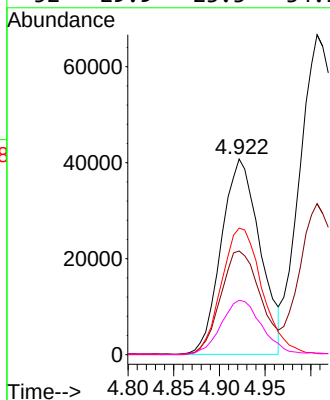
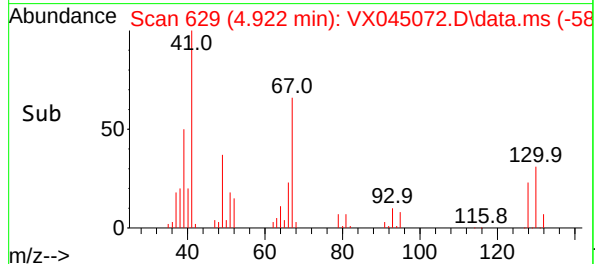
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 41 Resp: 120180
Ion Ratio Lower Upper
41 100
39 54.3 44.6 67.0
67 68.3 53.9 80.9
52 29.9 23.3 34.9

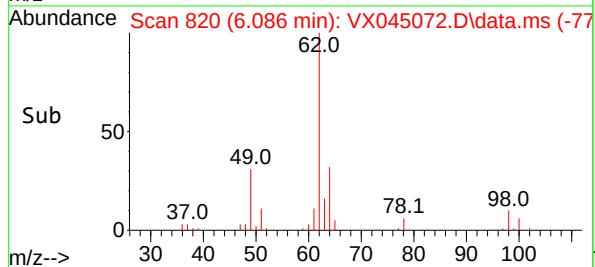
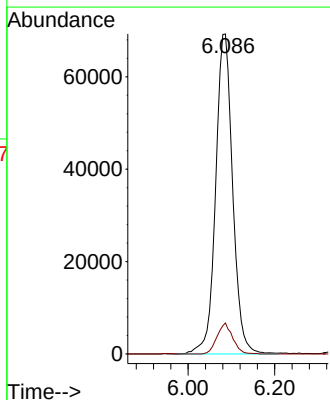
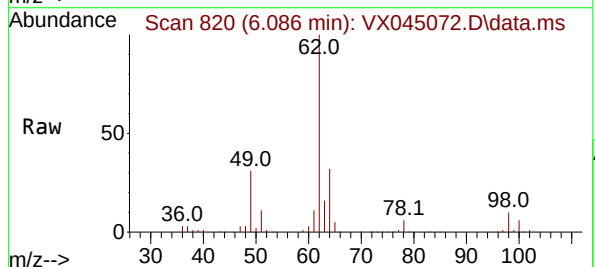
Manual Integrations
APPROVED

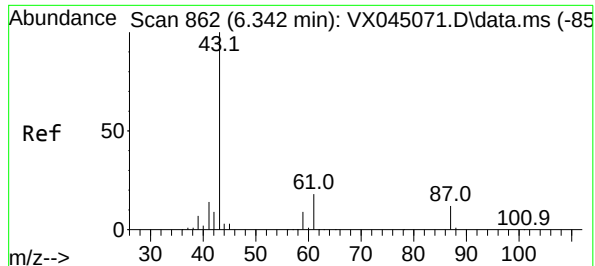
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#42
1,2-Dichloroethane
Concen: 110.158 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 62 Resp: 189857
Ion Ratio Lower Upper
62 100
98 8.8 0.0 18.2





#43

Isopropyl Acetate

Concen: 109.806 ug/l

RT: 6.342 min Scan# 862

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

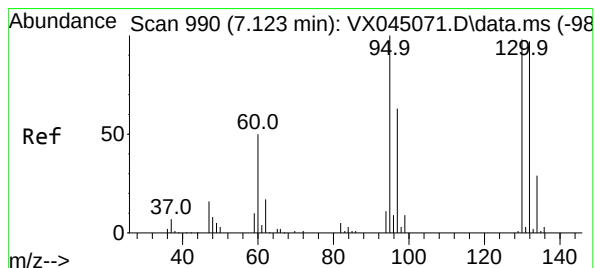
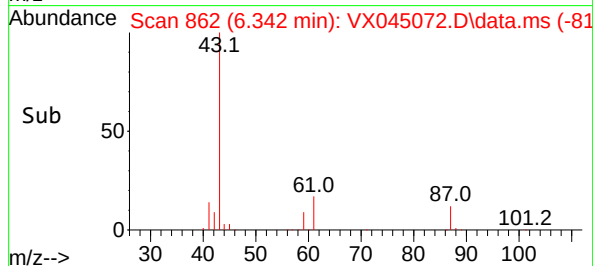
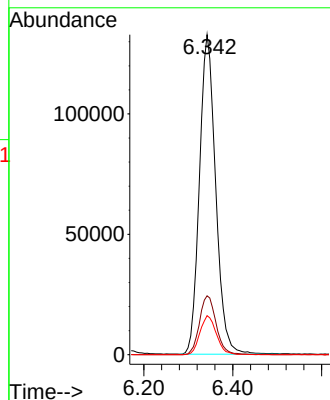
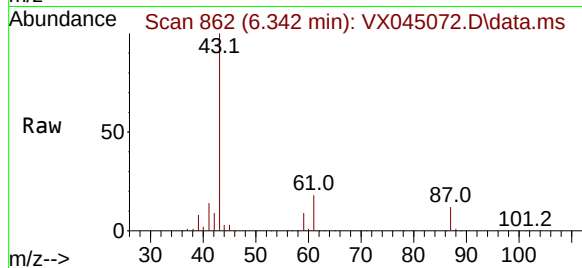
Tgt Ion:	43	Resp:	338414
Ion	Ratio	Lower	Upper
43	100		
61	18.9	14.9	22.3
87	12.3	9.4	14.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#44

Trichloroethene

Concen: 105.402 ug/l

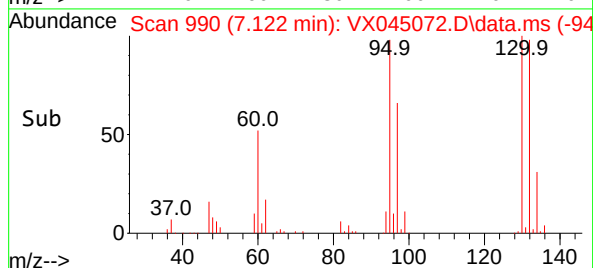
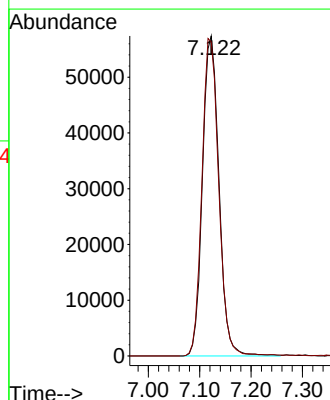
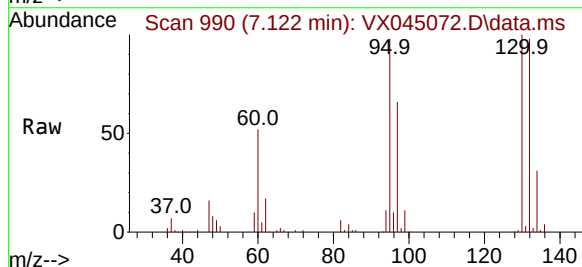
RT: 7.122 min Scan# 990

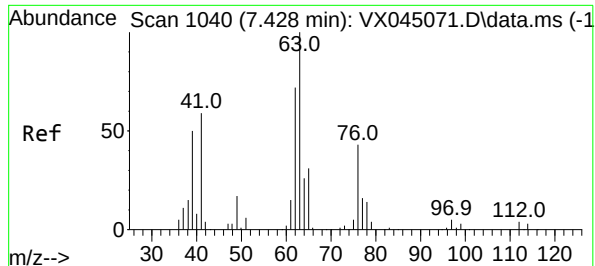
Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Tgt Ion:	130	Resp:	128124
Ion	Ratio	Lower	Upper
130	100		
95	98.1	0.0	205.0





#45

1,2-Dichloropropane

Concen: 102.898 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 63 Resp: 13599

Ion Ratio Lower Upper

63 100

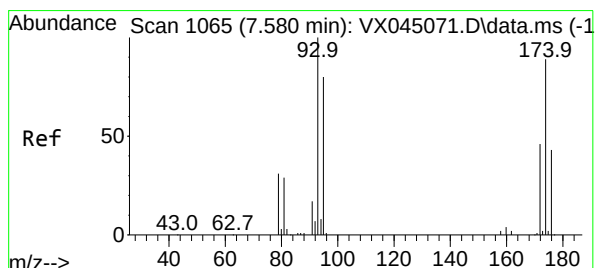
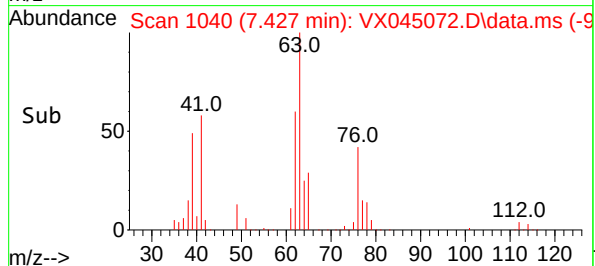
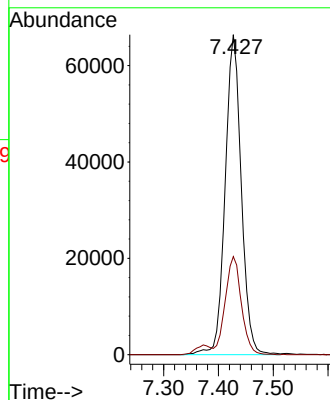
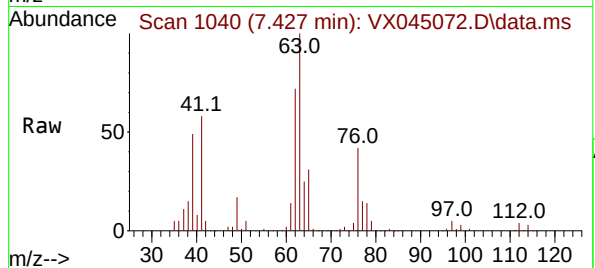
65 30.7 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#46

Dibromomethane

Concen: 105.329 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

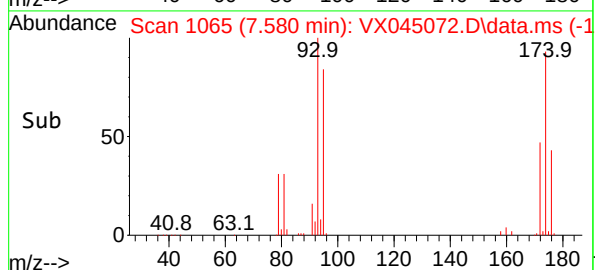
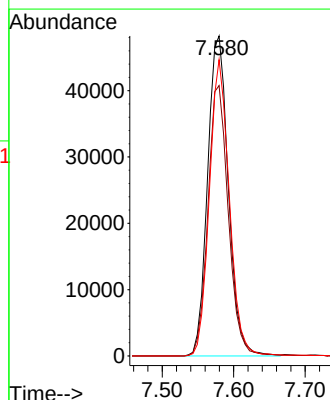
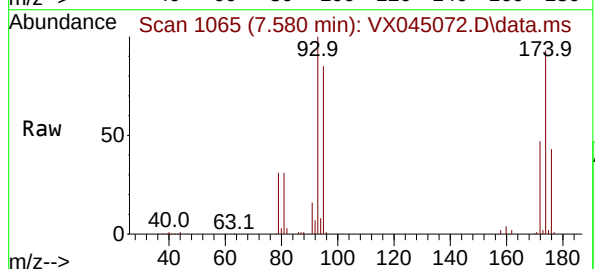
Tgt Ion: 93 Resp: 97248

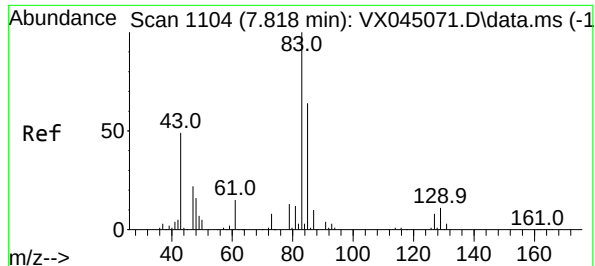
Ion Ratio Lower Upper

93 100

95 83.3 65.8 98.8

174 89.0 72.2 108.2





#47

Bromodichloromethane

Concen: 106.947 ug/l

RT: 7.817 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 83 Resp: 191010

Ion Ratio Lower Upper

83 100

85 66.4 51.1 76.7

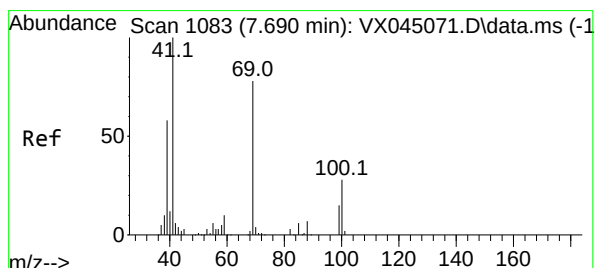
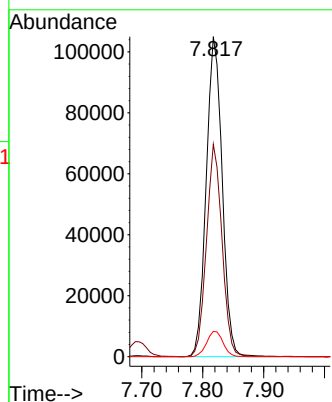
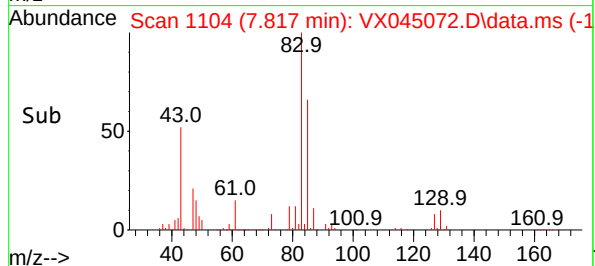
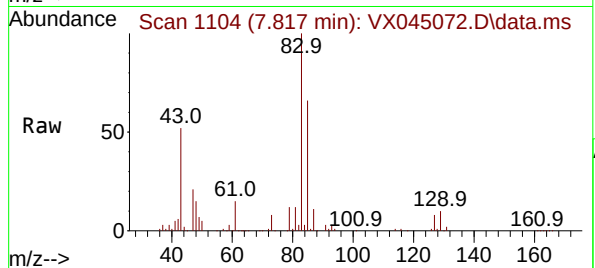
127 7.9 6.4 9.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#48

Methyl methacrylate

Concen: 113.344 ug/l

RT: 7.695 min Scan# 1084

Delta R.T. 0.006 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

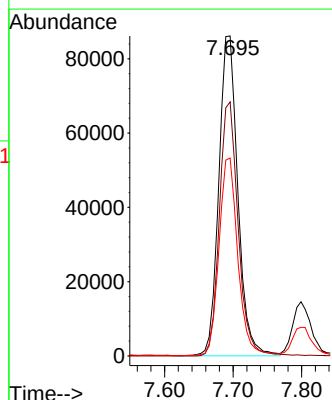
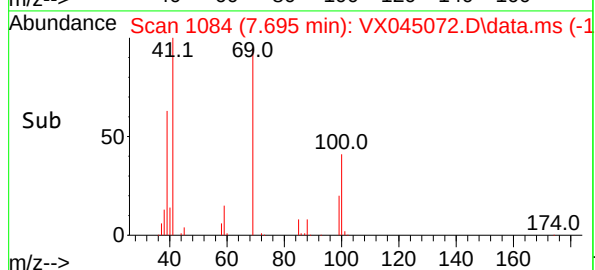
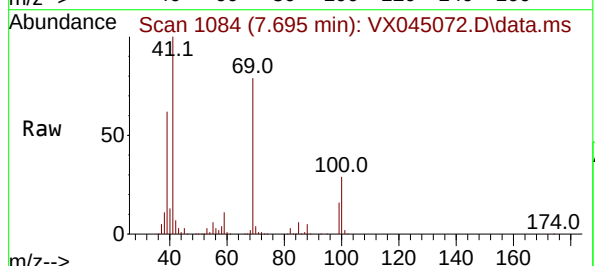
Tgt Ion: 41 Resp: 165825

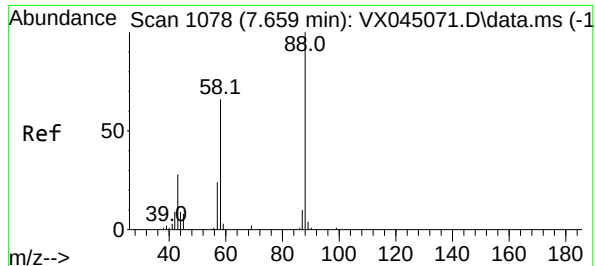
Ion Ratio Lower Upper

41 100

69 78.5 63.0 94.6

39 60.9 47.5 71.3





#49

1,4-Dioxane

Concen: 2132.314 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. 0.006 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 88 Resp: 66308

Ion Ratio Lower Upper

88 100

43 35.6 28.7 43.1

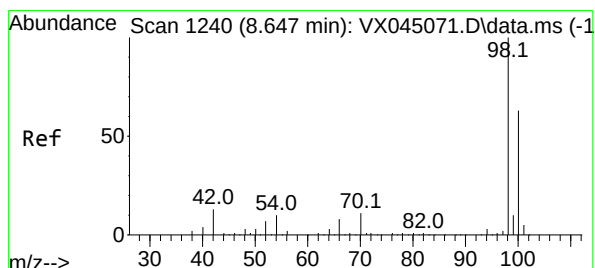
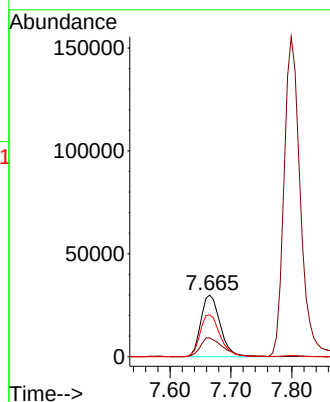
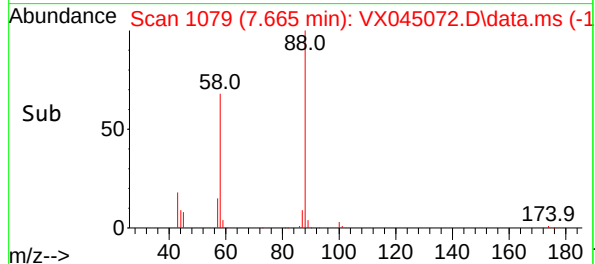
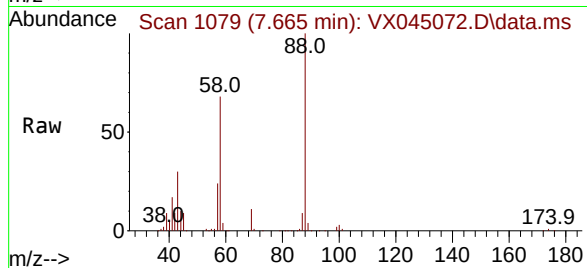
58 70.5 55.8 83.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#50

Toluene-d8

Concen: 99.595 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX045072.D

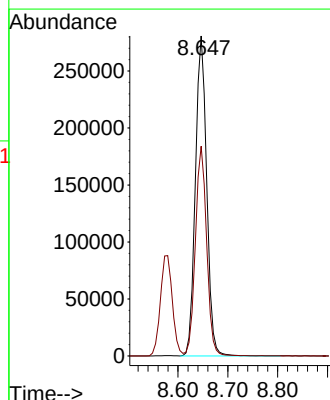
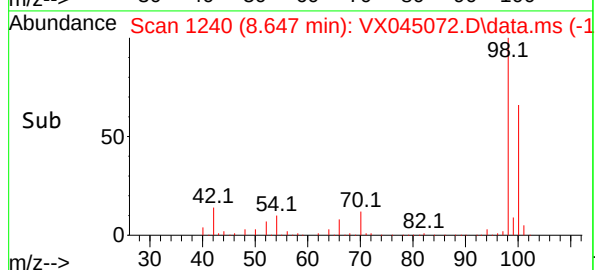
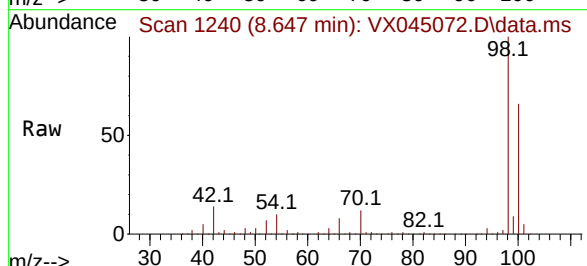
Acq: 28 Feb 2025 03:23

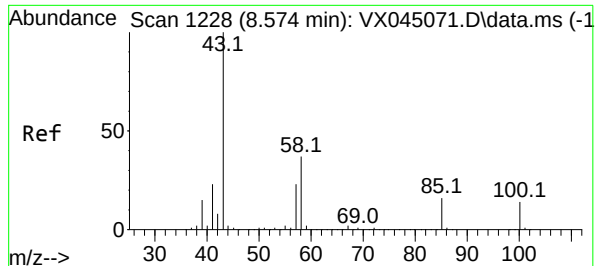
Tgt Ion: 98 Resp: 441188

Ion Ratio Lower Upper

98 100

100 65.3 52.0 78.0





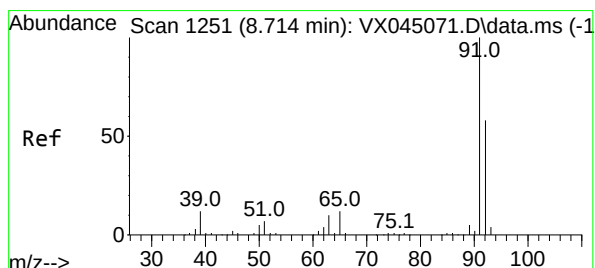
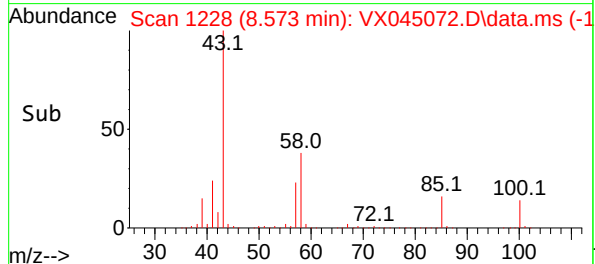
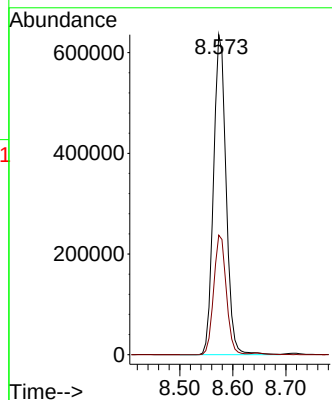
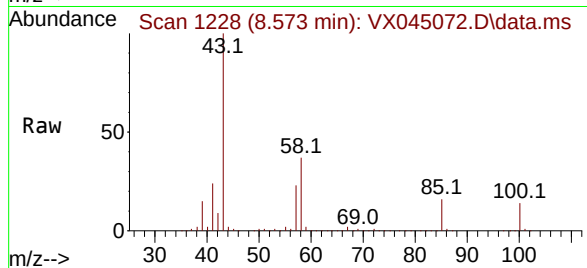
#51
4-Methyl-2-Pentanone
Concen: 555.050 ug/l
RT: 8.573 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1048140
Ion Ratio Lower Upper
43 100
58 37.4 29.2 43.8

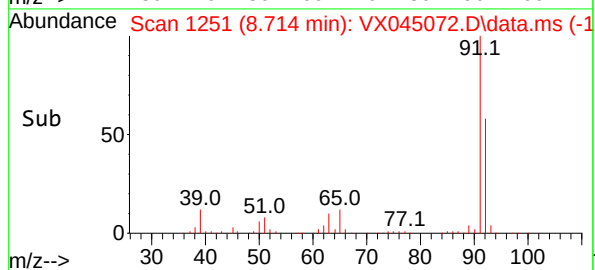
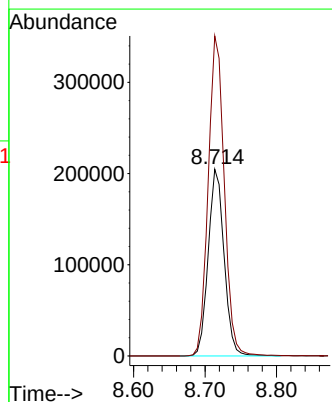
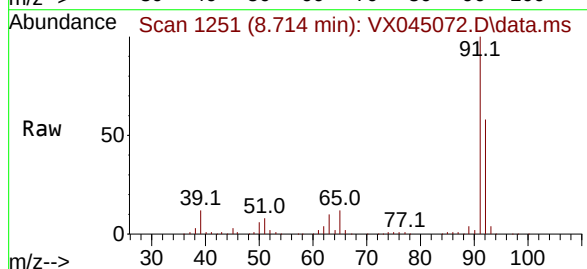
Manual Integrations
APPROVED

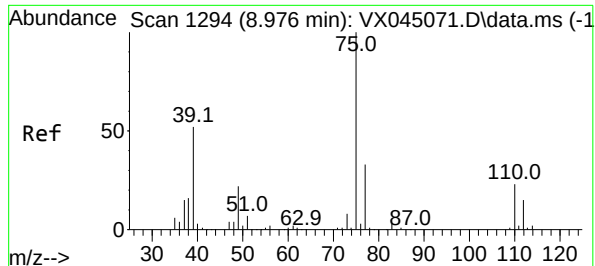
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#52
Toluene
Concen: 100.178 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 92 Resp: 316349
Ion Ratio Lower Upper
92 100
91 173.2 138.9 208.3





#53

t-1,3-Dichloropropene

Concen: 100.462 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 75 Resp: 177352

Ion Ratio Lower Upper

75 100

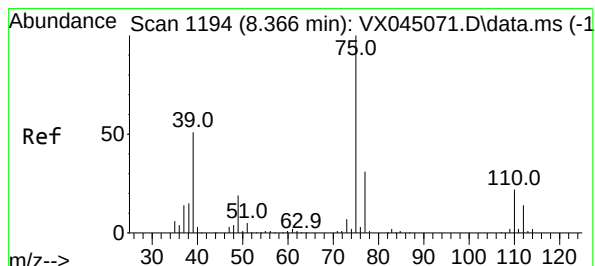
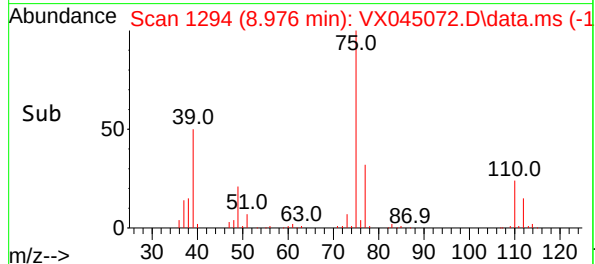
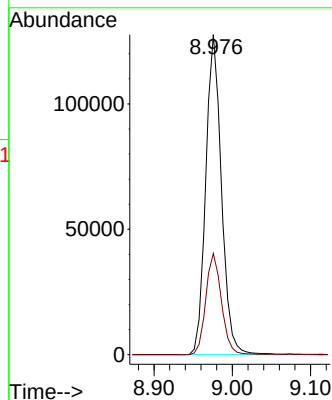
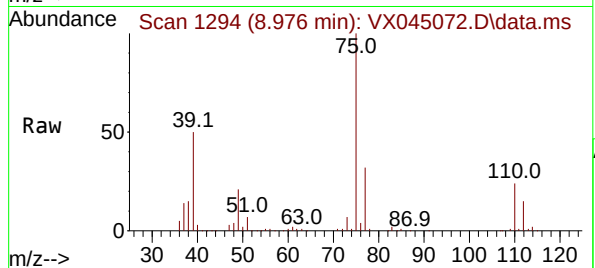
77 31.6 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#54

cis-1,3-Dichloropropene

Concen: 101.815 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

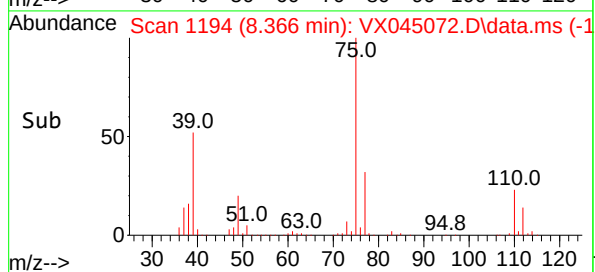
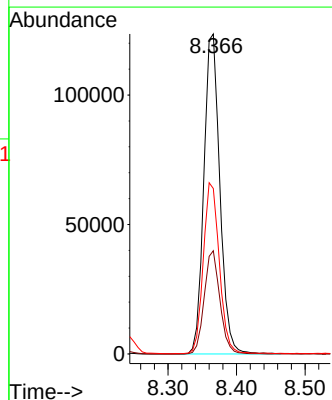
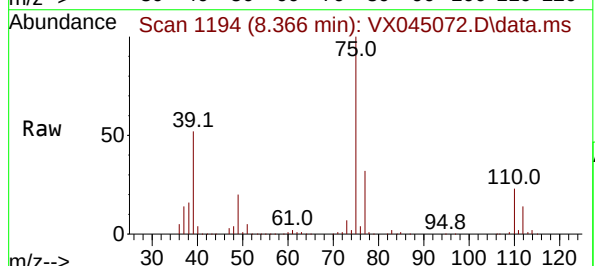
Tgt Ion: 75 Resp: 200943

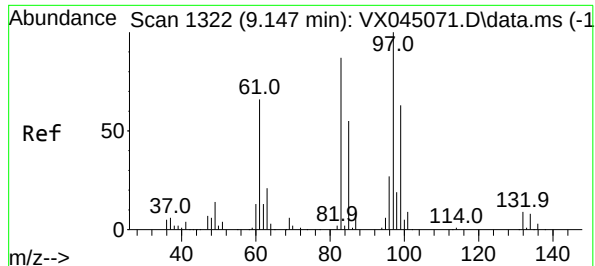
Ion Ratio Lower Upper

75 100

77 32.2 24.7 37.1

39 51.6 40.7 61.1





#55

1,1,2-Trichloroethane

Concen: 100.920 ug/l

RT: 9.146 min Scan# 1322

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 97 Resp: 123420

Ion Ratio Lower Upper

97 100

83 88.0 69.4 104.2

85 55.1 44.1 66.1

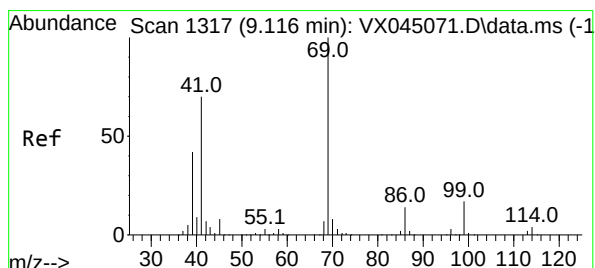
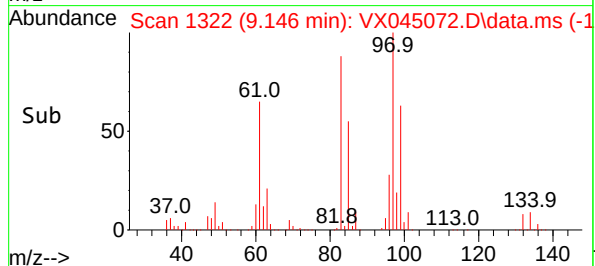
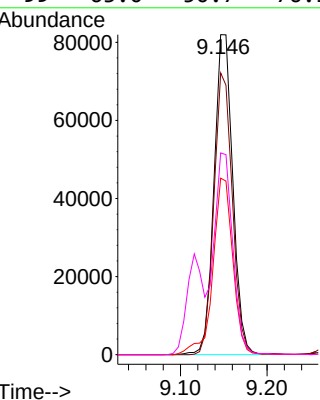
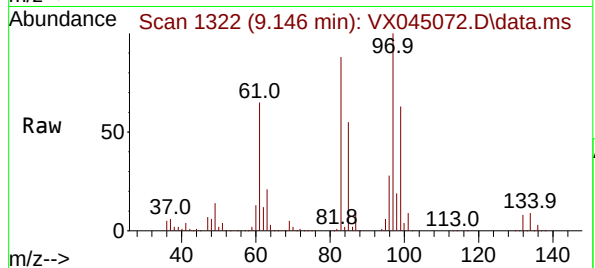
99 63.0 50.7 76.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#56

Ethyl methacrylate

Concen: 106.744 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

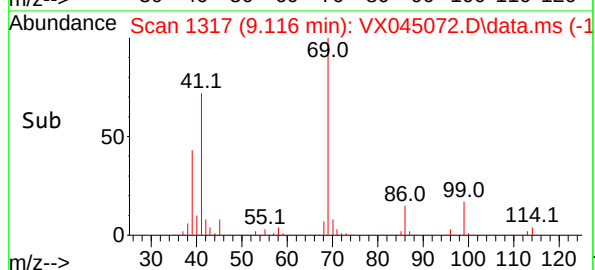
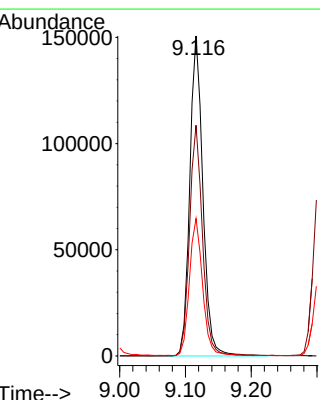
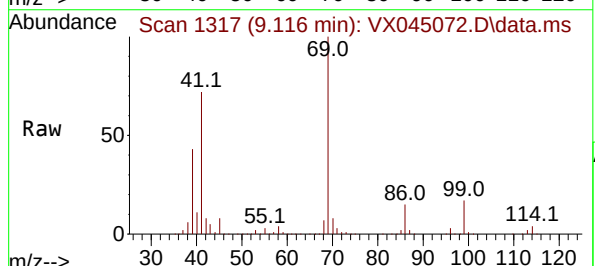
Tgt Ion: 69 Resp: 208782

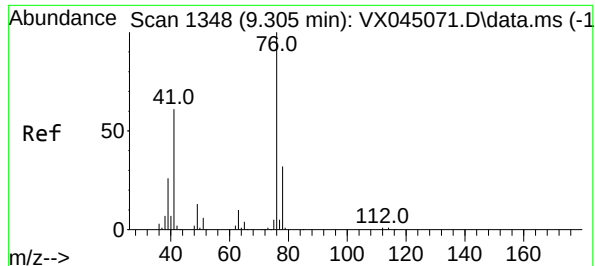
Ion Ratio Lower Upper

69 100

41 71.3 57.0 85.4

39 43.0 34.2 51.4





#57

1,3-Dichloropropane

Concen: 101.387 ug/l

RT: 9.305 min Scan# 11348

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 76 Resp: 21626

Ion Ratio Lower Upper

76 100

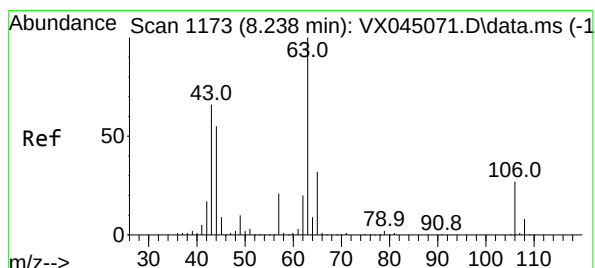
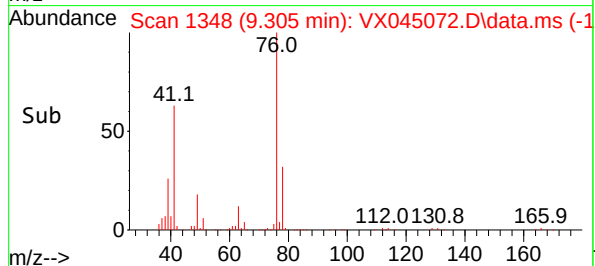
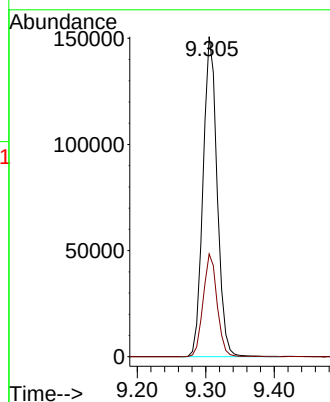
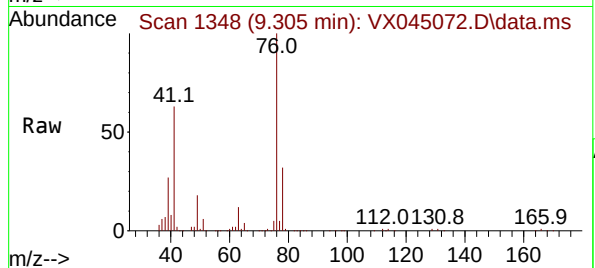
78 31.8 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#58

2-Chloroethyl Vinyl ether

Concen: 514.987 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX045072.D

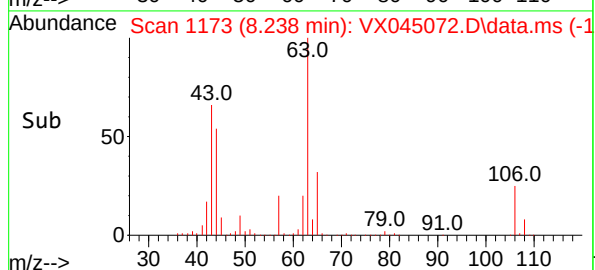
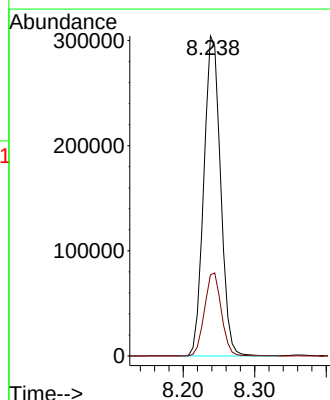
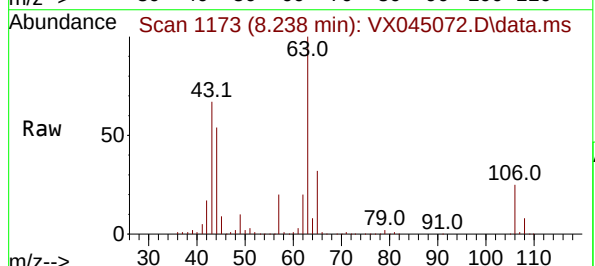
Acq: 28 Feb 2025 03:23

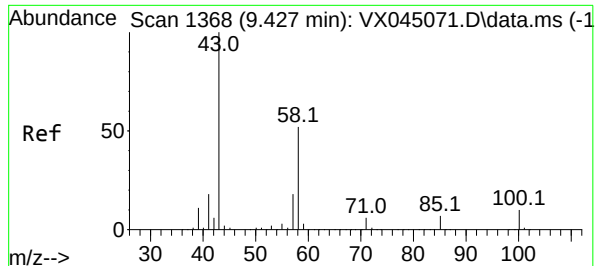
Tgt Ion: 63 Resp: 494551

Ion Ratio Lower Upper

63 100

106 26.1 21.5 32.3





#59

2-Hexanone

Concen: 572.233 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.006 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 779492

Ion Ratio Lower Upper

43 100

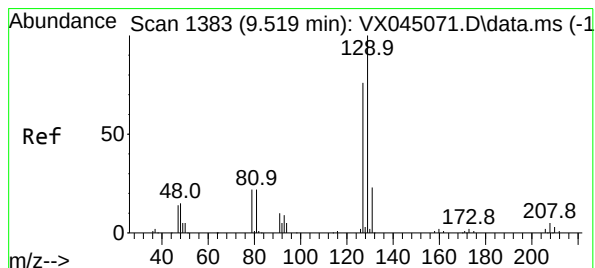
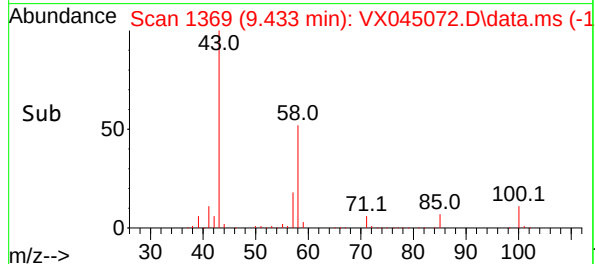
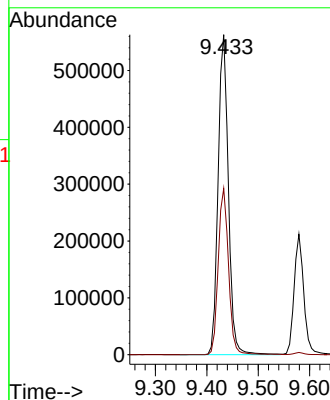
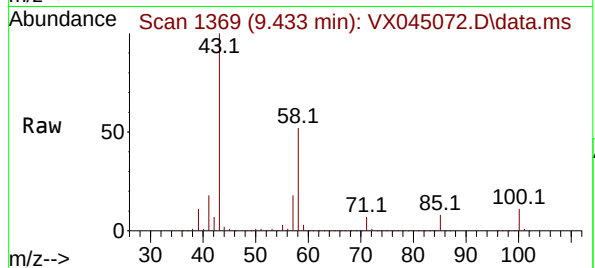
58 52.2 25.9 77.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#60

Dibromochloromethane

Concen: 106.719 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX045072.D

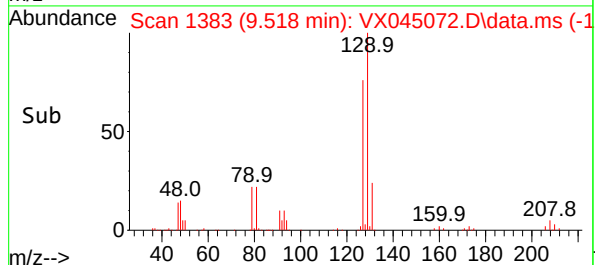
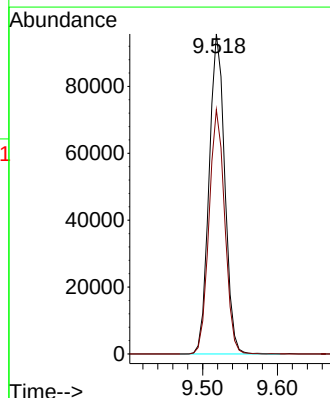
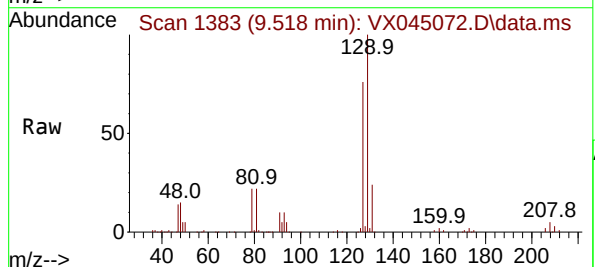
Acq: 28 Feb 2025 03:23

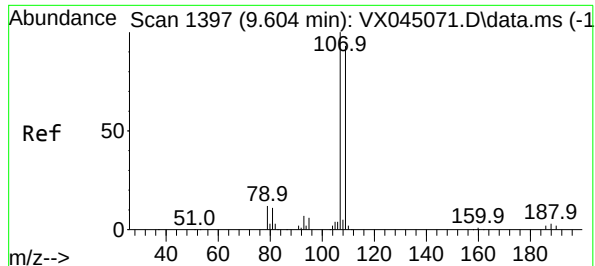
Tgt Ion:129 Resp: 139245

Ion Ratio Lower Upper

129 100

127 76.3 38.5 115.5





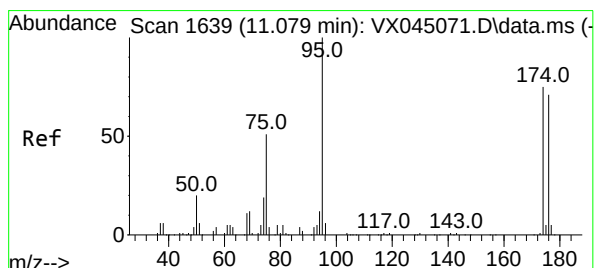
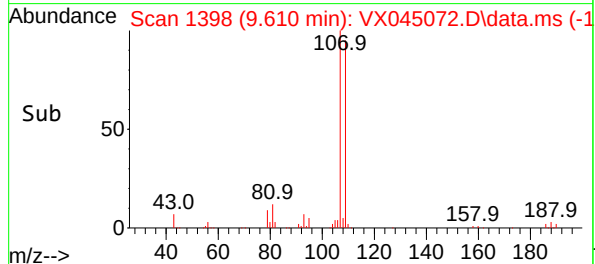
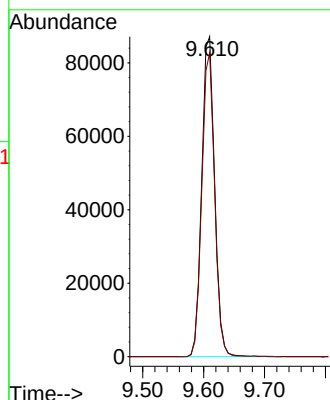
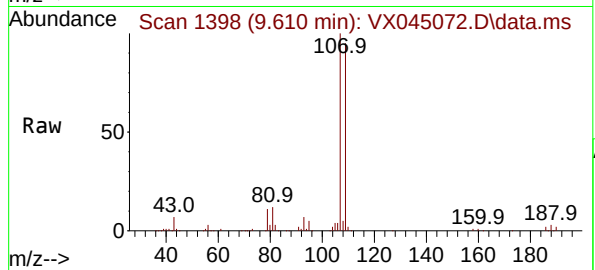
#61
1,2-Dibromoethane
Concen: 104.259 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tgt Ion:107 Resp: 12861
Ion Ratio Lower Upper
107 100
109 94.3 76.1 114.1

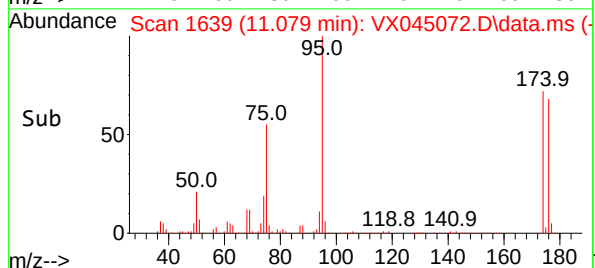
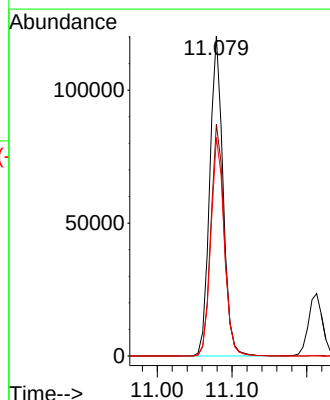
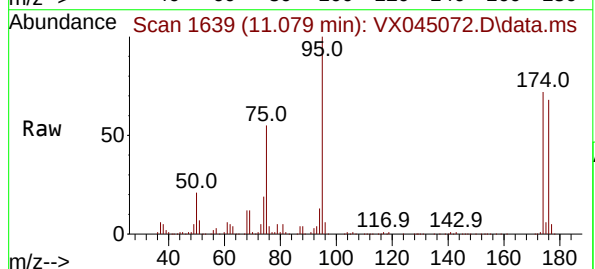
Manual Integrations
APPROVED

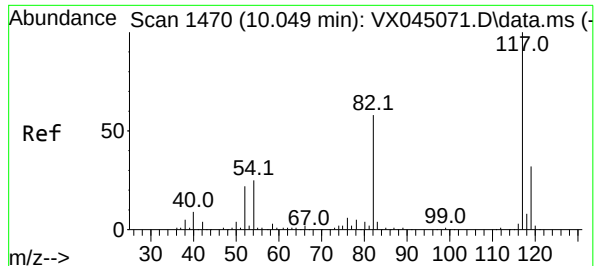
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#62
4-Bromofluorobenzene
Concen: 100.365 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

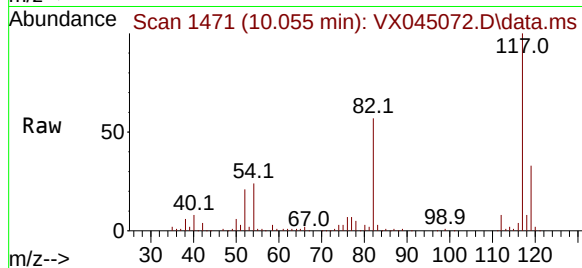
Tgt Ion: 95 Resp: 148476
Ion Ratio Lower Upper
95 100
174 73.0 0.0 148.2
176 69.2 0.0 141.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1470
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

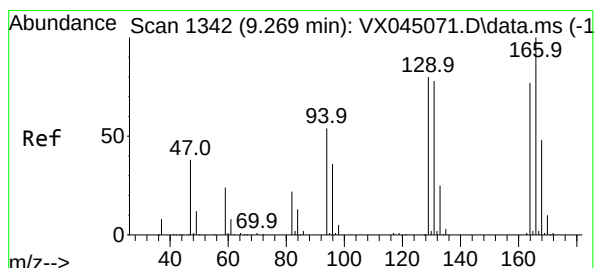
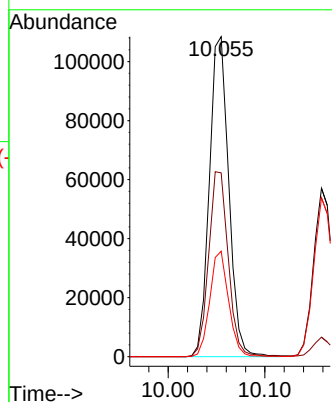
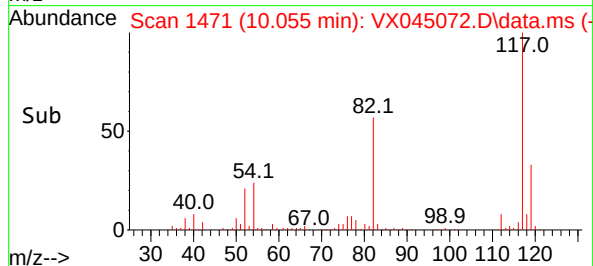
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:117 Resp: 151179
Ion Ratio Lower Upper
117 100
82 57.5 46.3 69.5
119 33.0 25.7 38.5

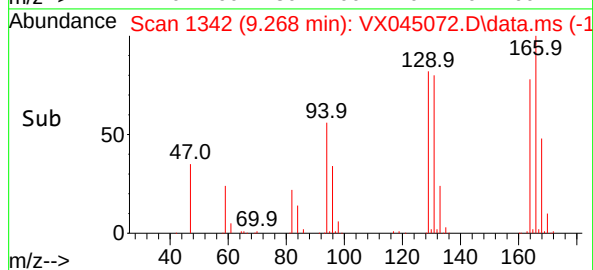
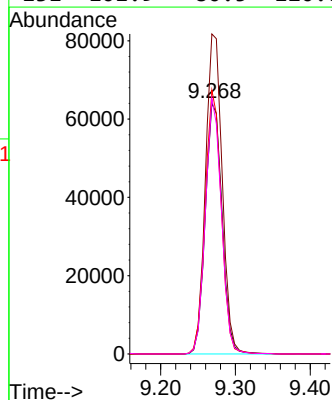
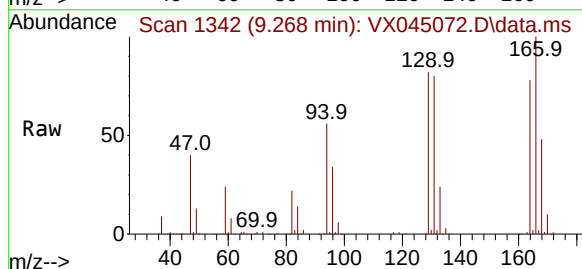
Manual Integrations
APPROVED

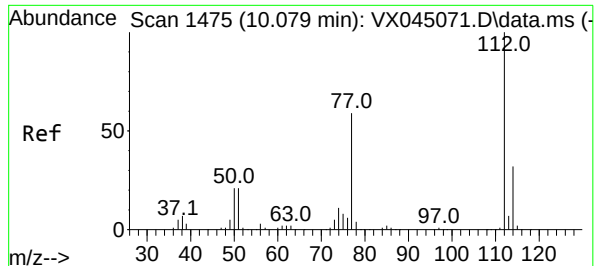
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#64
Tetrachloroethene
Concen: 103.491 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:164 Resp: 99386
Ion Ratio Lower Upper
164 100
166 127.6 103.6 155.4
129 105.2 82.7 124.1
131 101.9 80.5 120.7





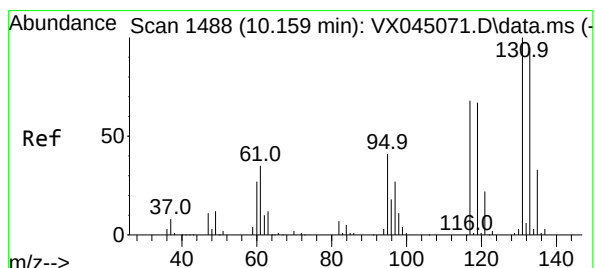
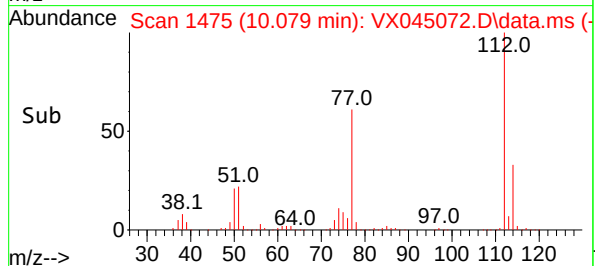
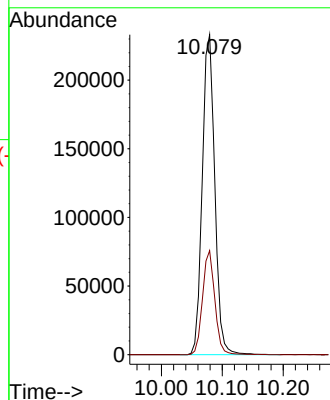
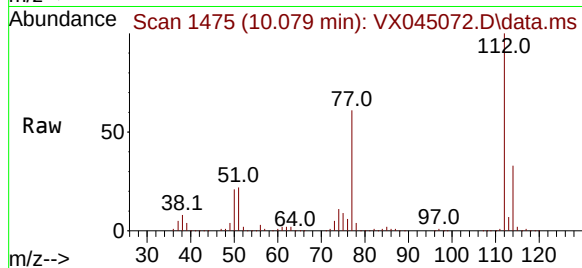
#65
Chlorobenzene
Concen: 102.456 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tgt Ion:112 Resp: 33247
Ion Ratio Lower Upper
112 100
114 32.5 26.0 39.0

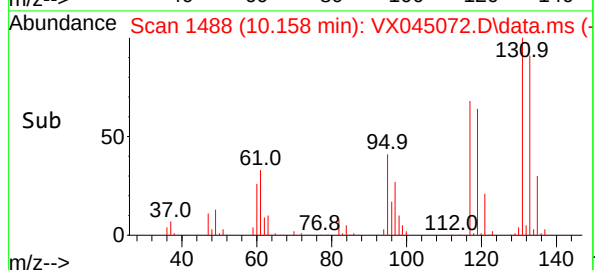
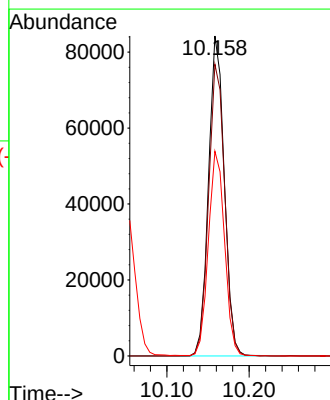
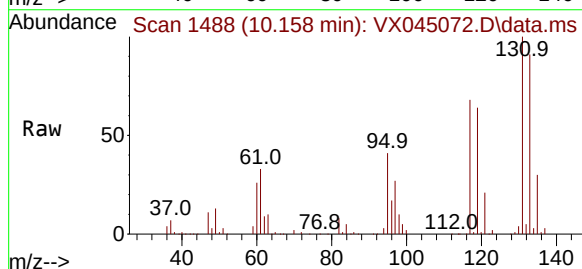
Manual Integrations
APPROVED

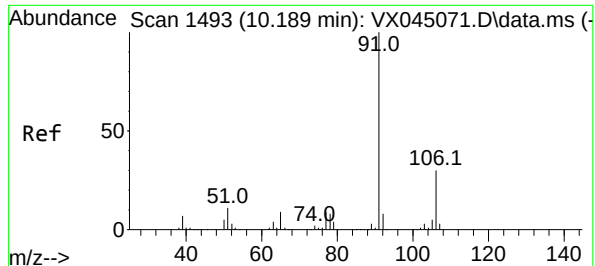
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 107.511 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

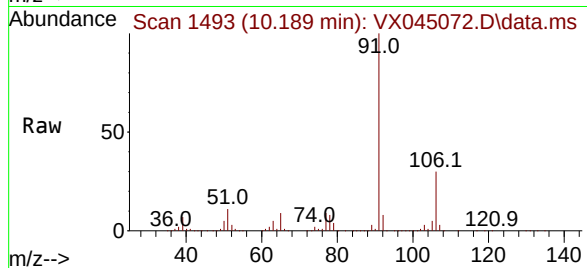
Tgt Ion:131 Resp: 112451
Ion Ratio Lower Upper
131 100
133 93.1 48.6 145.9
119 65.8 33.9 101.7





#67
Ethyl Benzene
Concen: 103.905 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

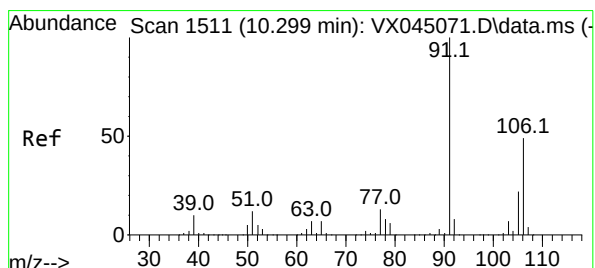
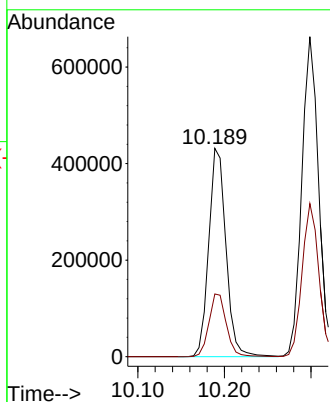
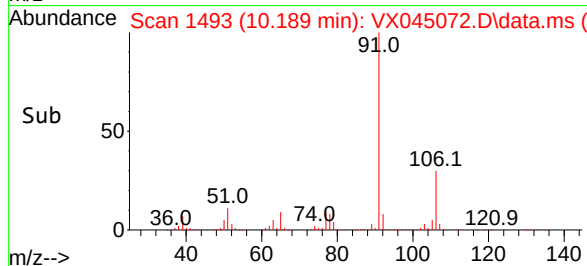
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 91 Resp: 59625
Ion Ratio Lower Upper
91 100
106 30.1 23.9 35.9

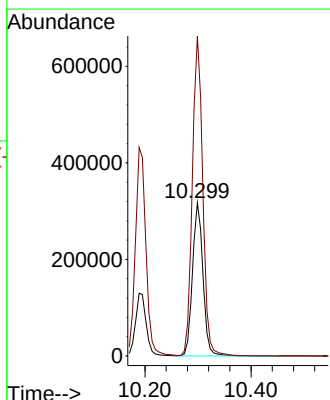
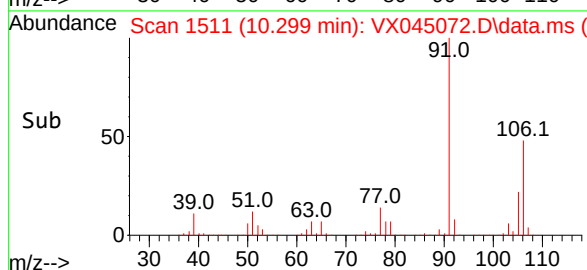
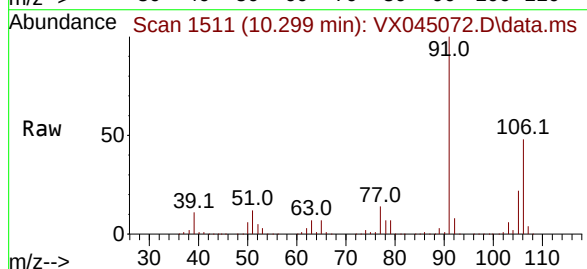
Manual Integrations
APPROVED

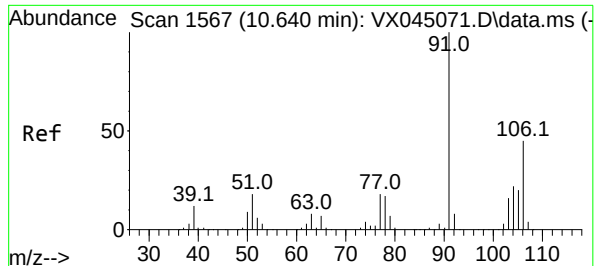
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#68
m/p-Xylenes
Concen: 204.507 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:106 Resp: 432214
Ion Ratio Lower Upper
106 100
91 208.9 165.4 248.0





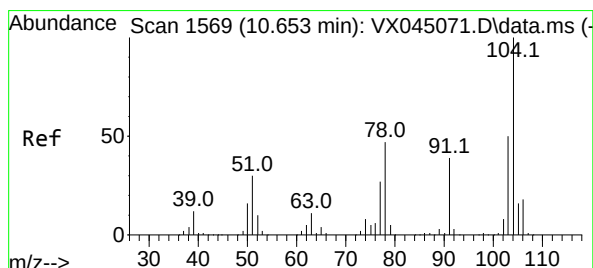
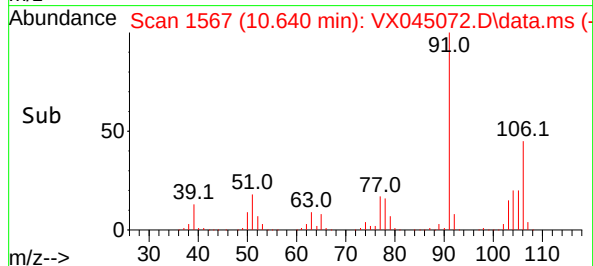
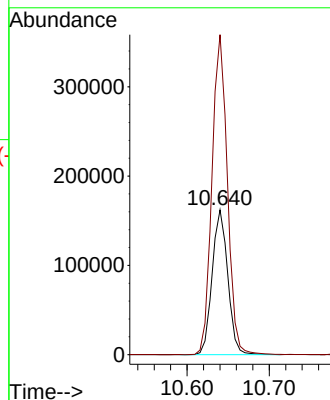
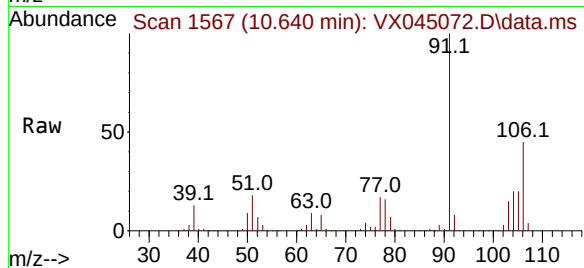
#69
o-Xylene
Concen: 100.849 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 21383
Ion Ratio Lower Upper
106 100
91 218.2 109.9 329.6

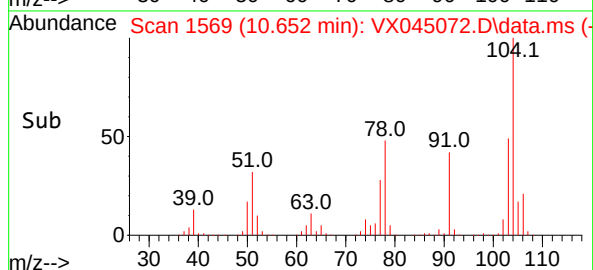
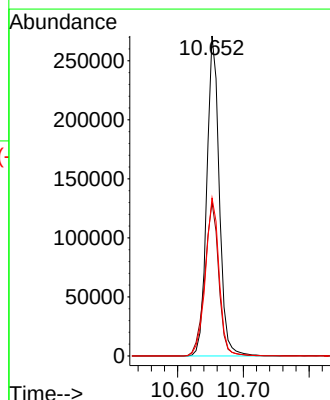
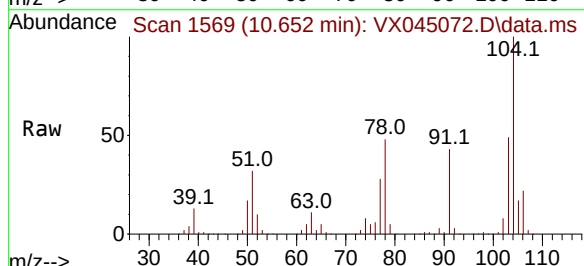
Manual Integrations
APPROVED

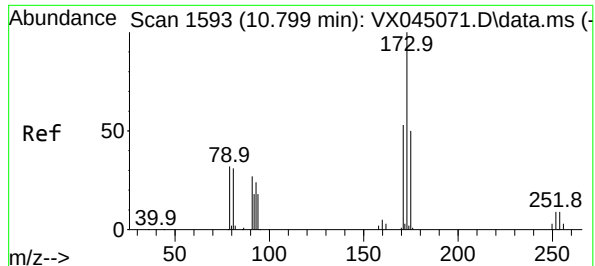
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#70
Styrene
Concen: 104.948 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

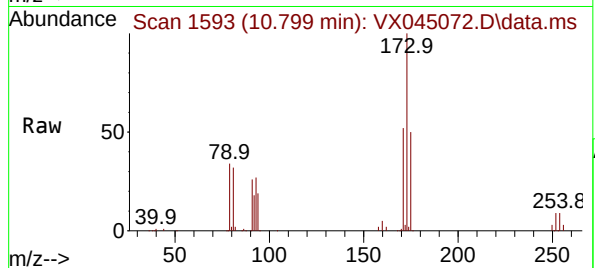
Tgt Ion:104 Resp: 357649
Ion Ratio Lower Upper
104 100
78 53.7 42.2 63.4
103 54.3 43.8 65.8





#71
Bromoform
Concen: 116.751 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

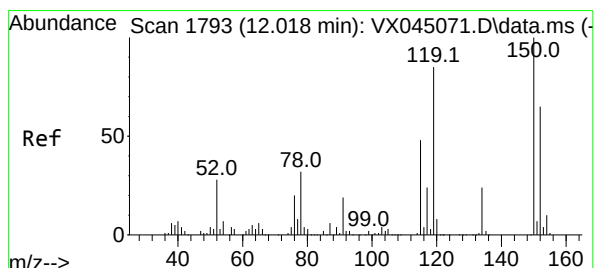
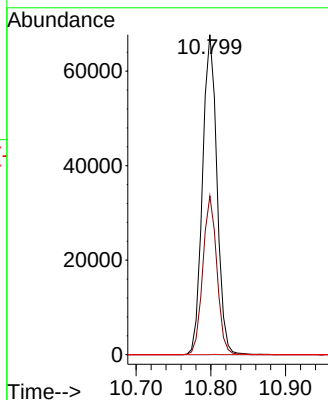
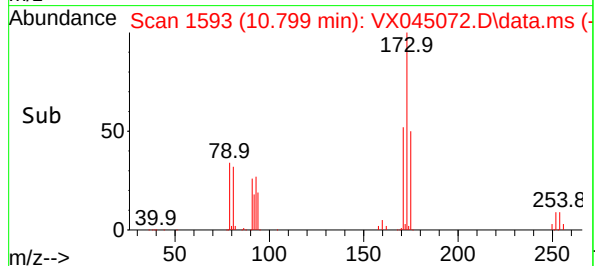
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:173 Resp: 90800
Ion Ratio Lower Upper
173 100
175 48.3 24.6 73.6
254 0.0 0.0 0.0

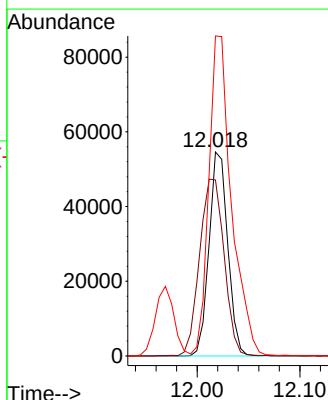
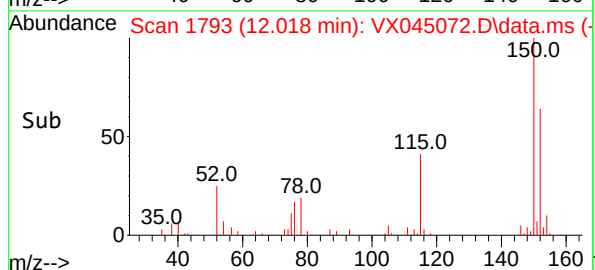
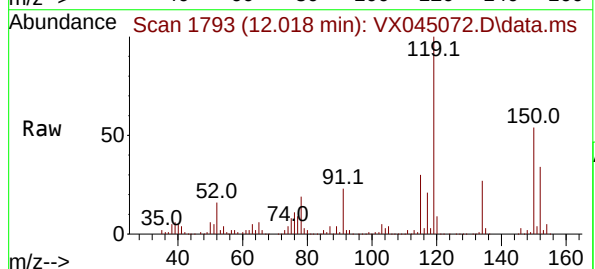
Manual Integrations
APPROVED

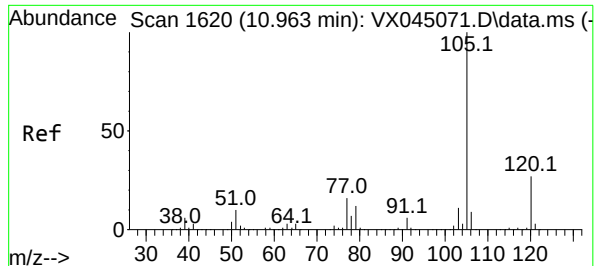
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:152 Resp: 69086
Ion Ratio Lower Upper
152 100
115 114.1 44.2 132.6
150 190.7 0.0 349.0





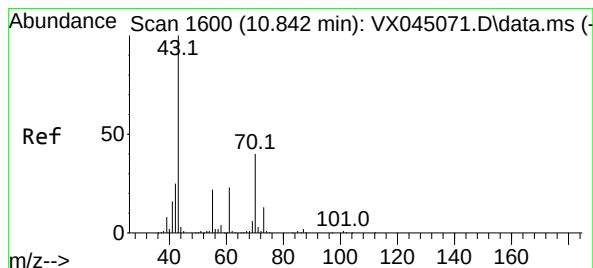
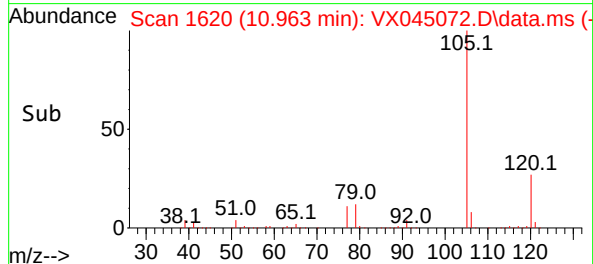
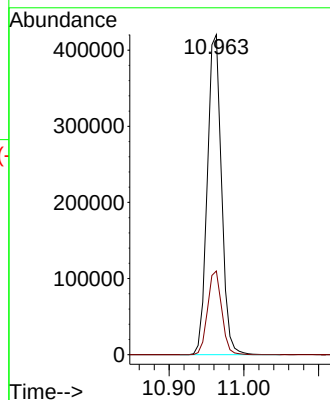
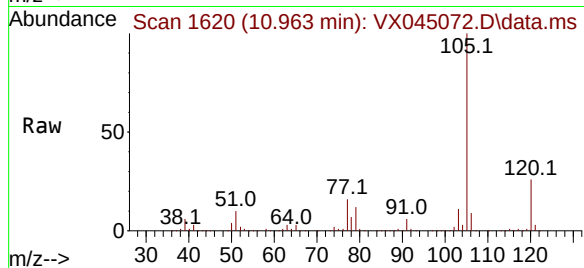
#73
Isopropylbenzene
Concen: 99.138 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 55353
Ion Ratio Lower Upper
105 100
120 26.0 13.2 39.5

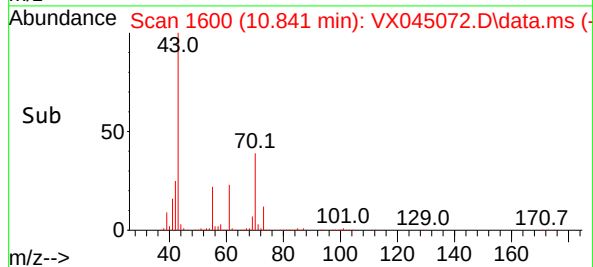
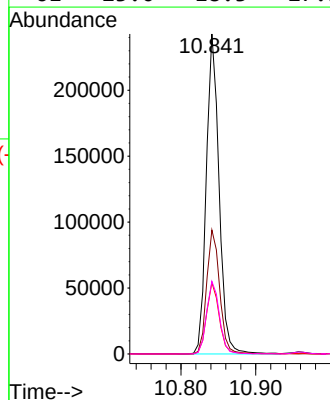
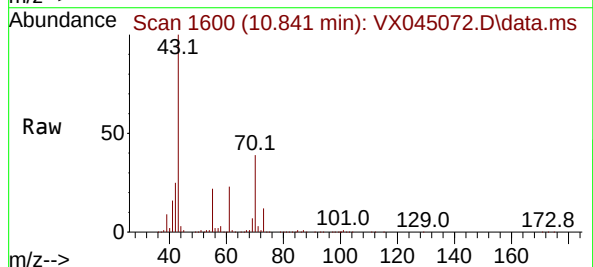
Manual Integrations
APPROVED

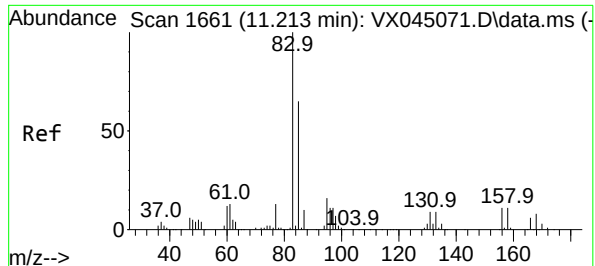
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#74
N-ethyl acetate
Concen: 113.277 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 43 Resp: 287104
Ion Ratio Lower Upper
43 100
70 39.6 31.8 47.6
55 22.3 18.3 27.5
61 23.0 18.3 27.5





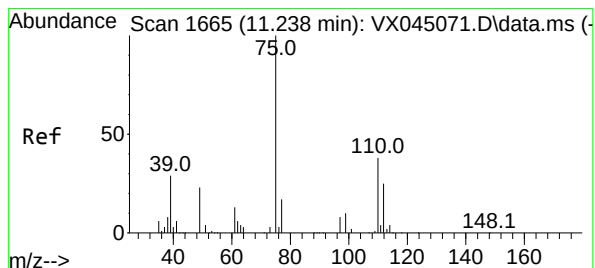
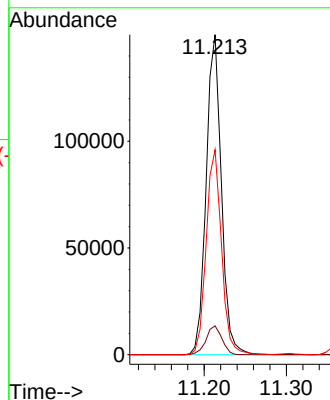
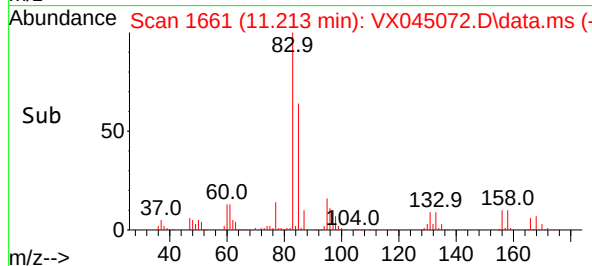
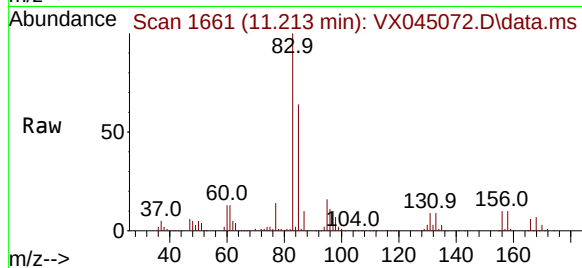
#75
1,1,2,2-Tetrachloroethane
Concen: 99.923 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tgt Ion: 83 Resp: 19221
Ion Ratio Lower Upper
83 100
131 9.4 4.5 13.4
85 64.7 31.7 95.1

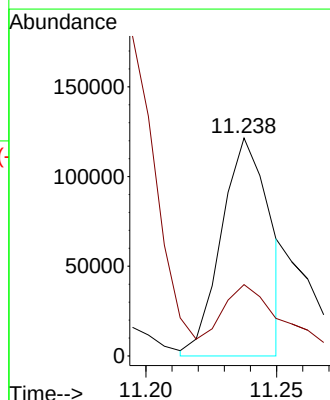
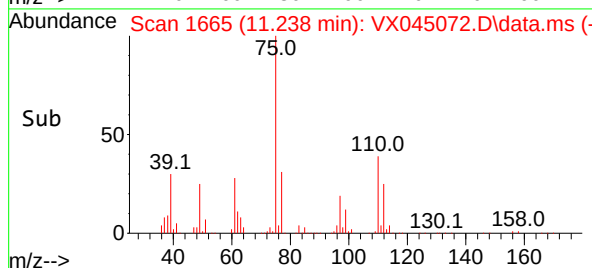
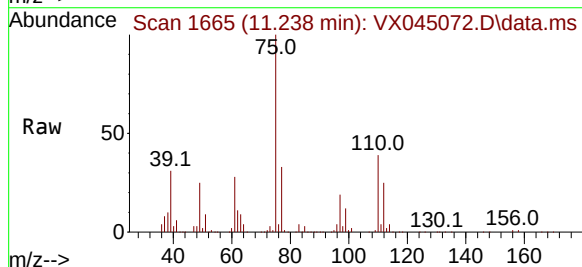
Manual Integrations
APPROVED

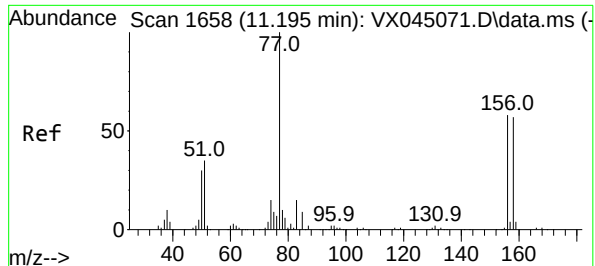
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#76
1,2,3-Trichloropropane
Concen: 101.395 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

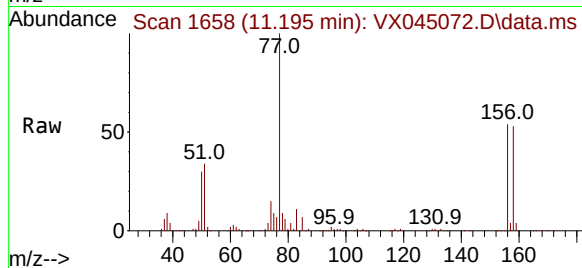
Tgt Ion: 75 Resp: 156259
Ion Ratio Lower Upper
75 100
77 42.7 20.7 62.1





#77
Bromobenzene
Concen: 99.175 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

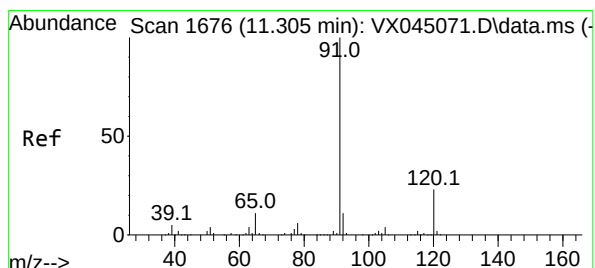
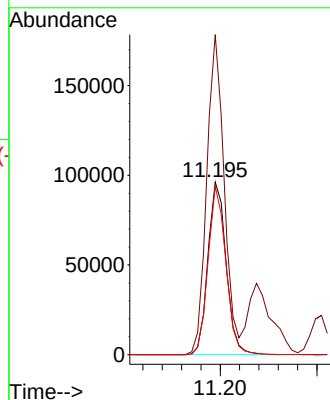
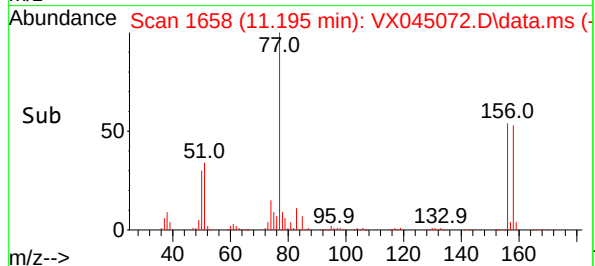
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:156 Resp: 125700
Ion Ratio Lower Upper
156 100
77 177.3 85.8 257.4
158 95.9 48.4 145.2

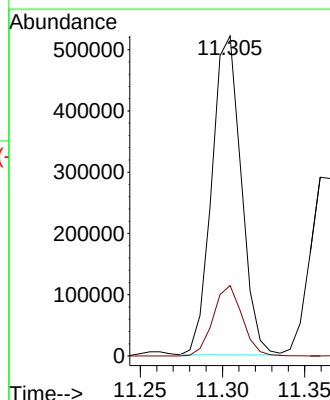
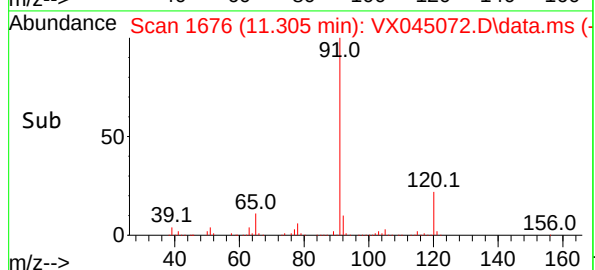
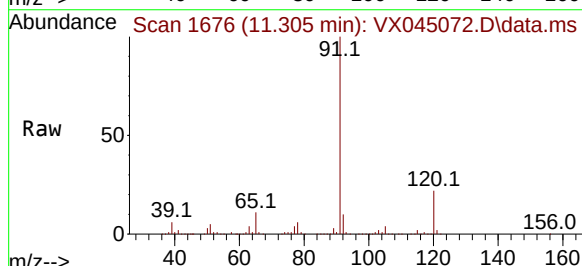
Manual Integrations
APPROVED

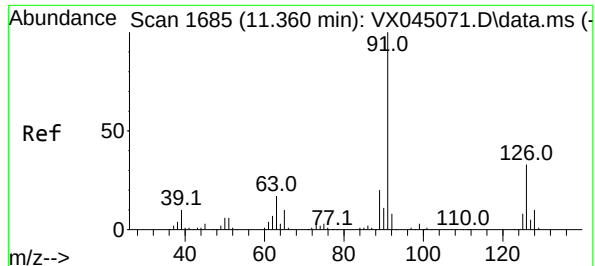
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#78
n-propylbenzene
Concen: 100.758 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 91 Resp: 648835
Ion Ratio Lower Upper
91 100
120 21.8 11.2 33.6





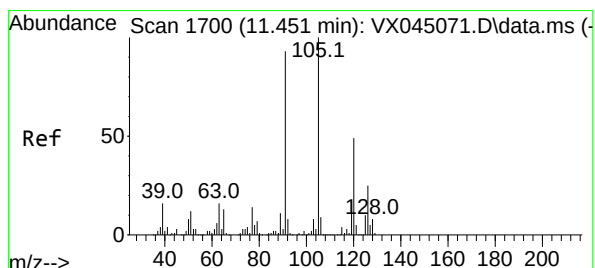
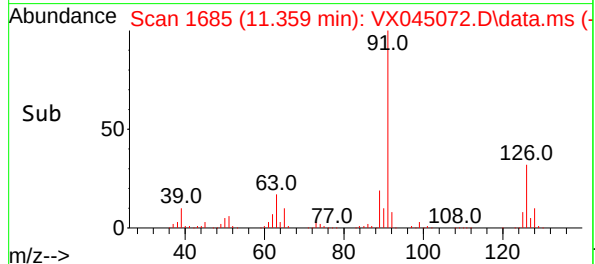
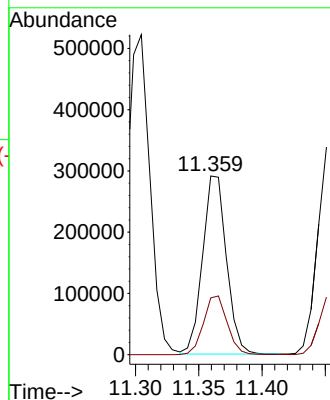
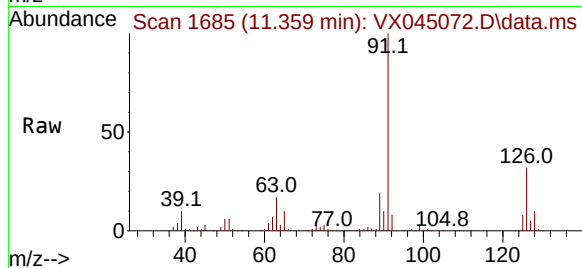
#79
2-Chlorotoluene
Concen: 96.825 ug/l
RT: 11.359 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 38270
Ion Ratio Lower Upper
91 100
126 32.7 16.4 49.4

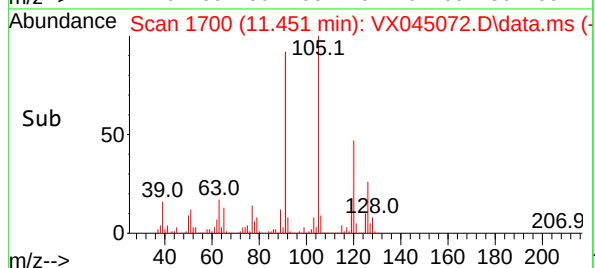
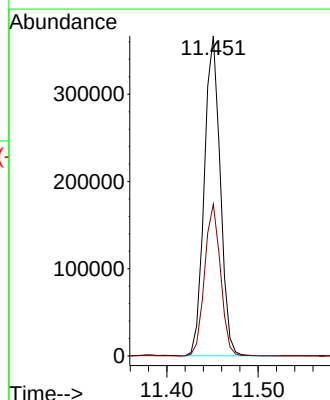
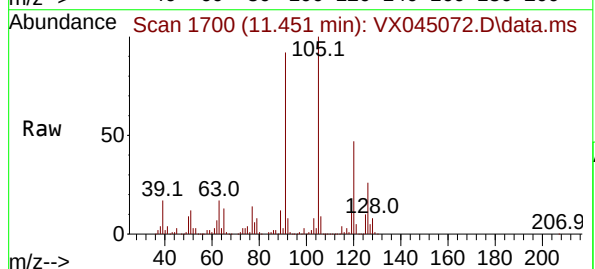
Manual Integrations
APPROVED

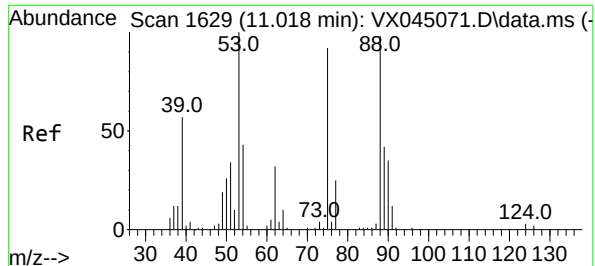
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#80
1,3,5-Trimethylbenzene
Concen: 98.356 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:105 Resp: 445466
Ion Ratio Lower Upper
105 100
120 47.1 24.1 72.2





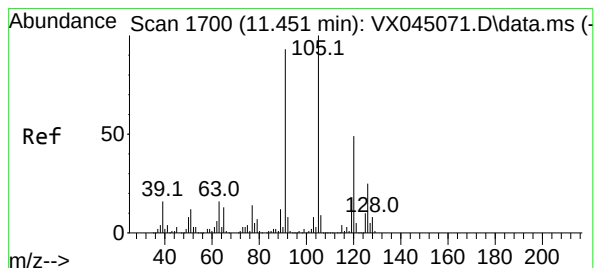
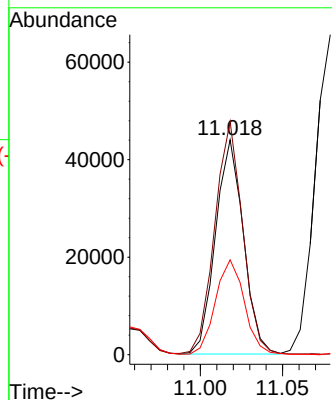
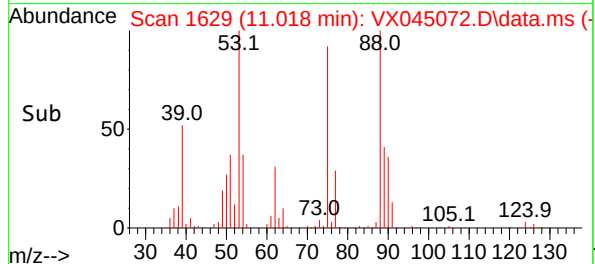
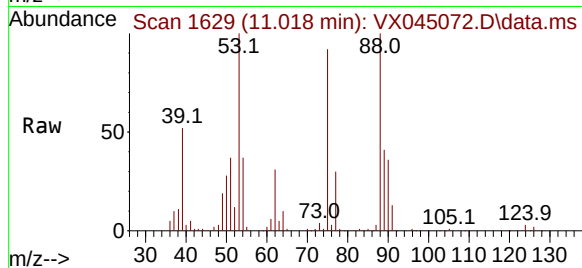
#81
trans-1,4-Dichloro-2-butene
Concen: 91.460 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tgt Ion: 75 Resp: 5197
Ion Ratio Lower Upper
75 100
53 109.9 88.5 132.7
89 45.7 36.2 54.4

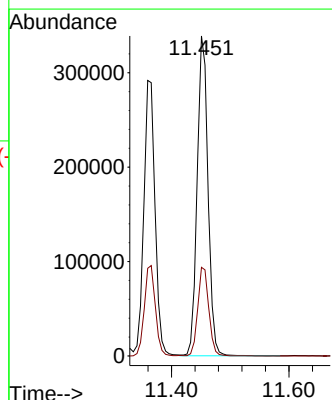
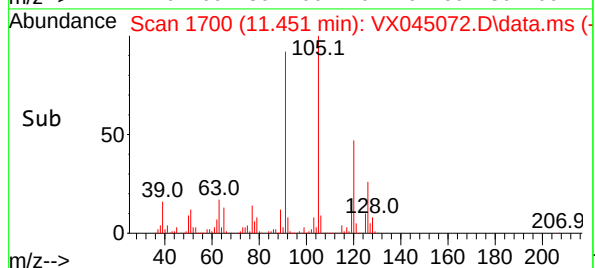
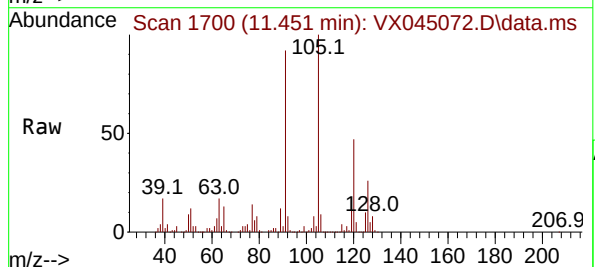
Manual Integrations
APPROVED

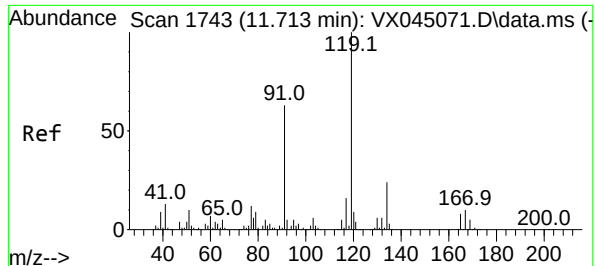
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#82
4-Chlorotoluene
Concen: 99.168 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

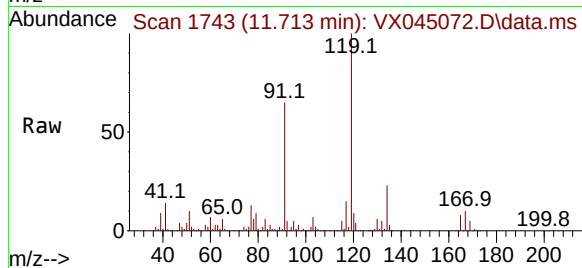
Tgt Ion: 91 Resp: 433881
Ion Ratio Lower Upper
91 100
126 28.2 14.1 42.4





#83
tert-Butylbenzene
Concen: 99.288 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

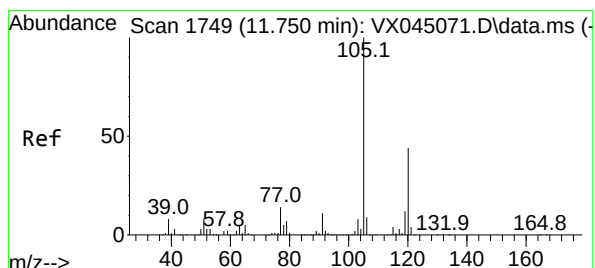
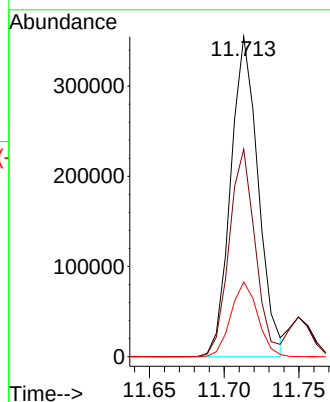
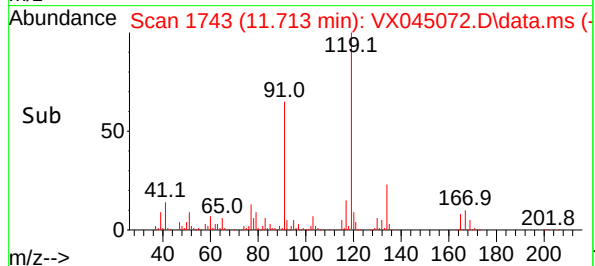
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



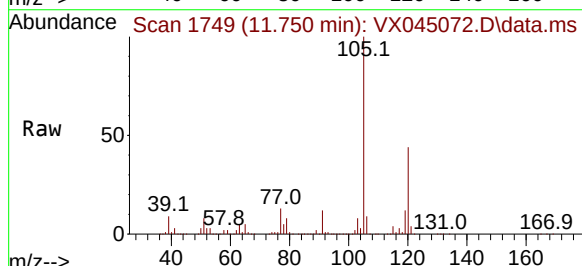
Tgt Ion:119 Resp: 454859
Ion Ratio Lower Upper
119 100
91 61.7 30.7 92.1
134 22.8 11.7 35.0

Manual Integrations
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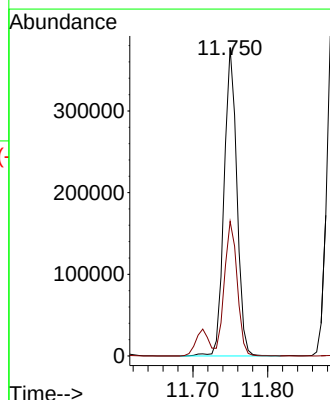
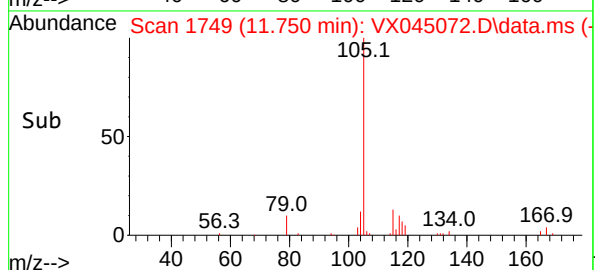
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

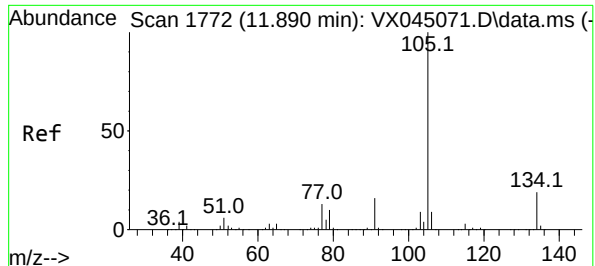


#84
1,2,4-Trimethylbenzene
Concen: 100.926 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23



Tgt Ion:105 Resp: 450108
Ion Ratio Lower Upper
105 100
120 43.4 22.1 66.1





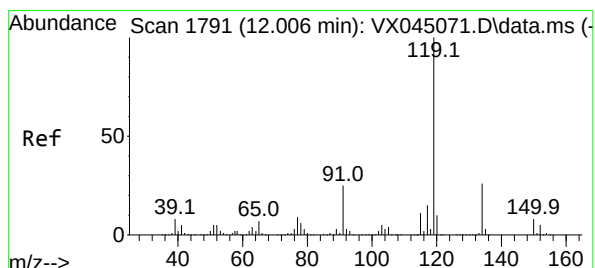
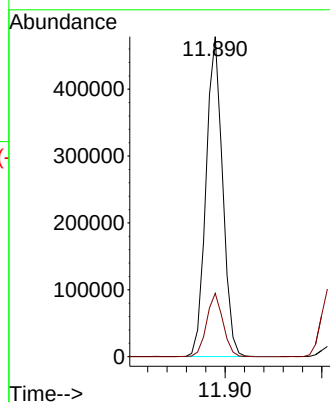
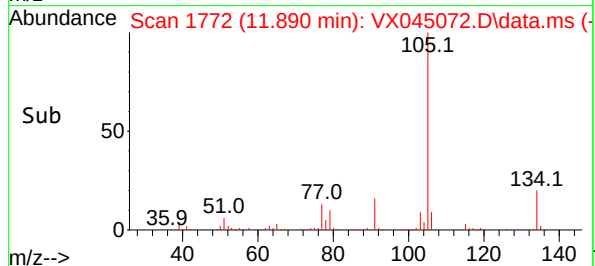
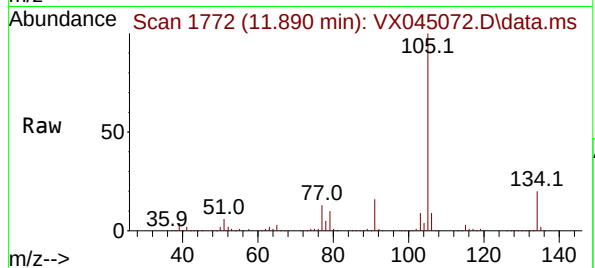
#85
sec-Butylbenzene
Concen: 100.517 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 570000
Ion Ratio Lower Upper
105 100
134 19.6 9.8 29.4

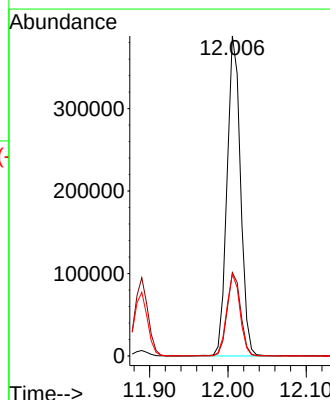
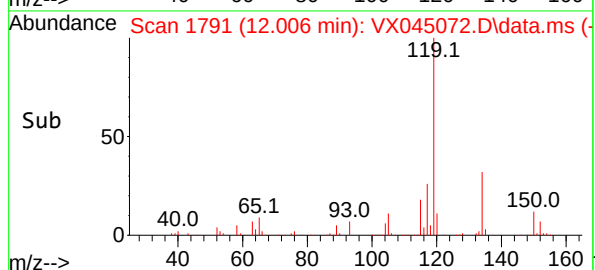
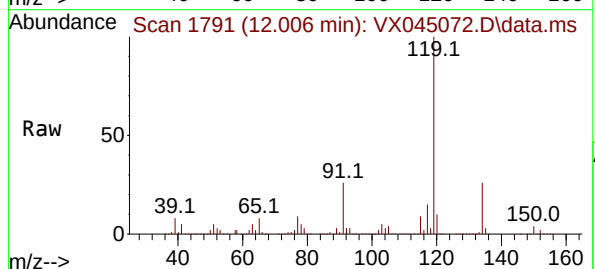
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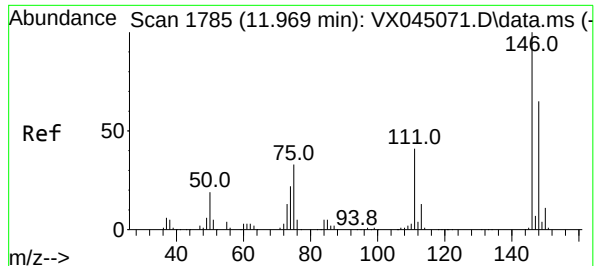
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#86
p-Isopropyltoluene
Concen: 102.252 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:119 Resp: 465512
Ion Ratio Lower Upper
119 100
134 26.0 12.9 38.6
91 25.3 12.7 38.0





#87

1,3-Dichlorobenzene

Concen: 99.903 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:146 Resp: 231440

Ion Ratio Lower Upper

146 100

111 42.6 21.1 63.4

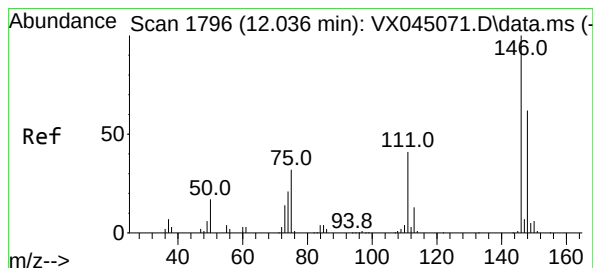
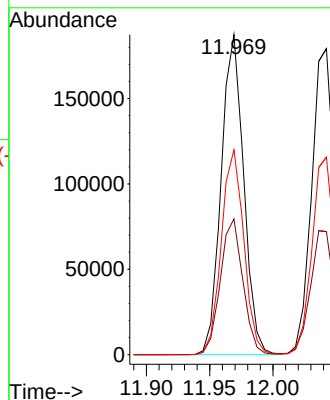
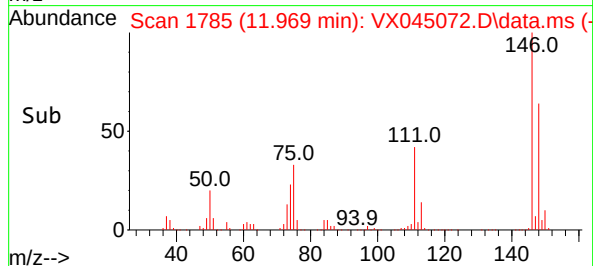
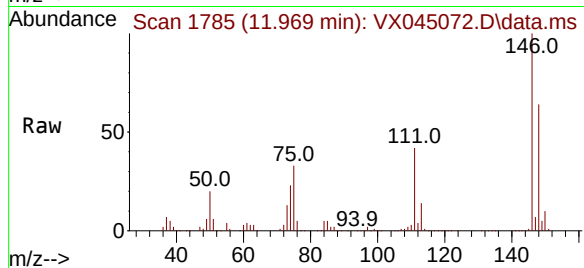
148 64.1 31.9 95.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#88

1,4-Dichlorobenzene

Concen: 98.355 ug/l

RT: 12.042 min Scan# 1797

Delta R.T. 0.006 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

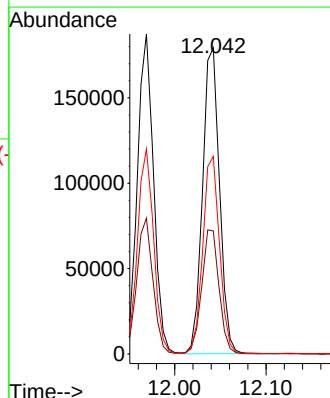
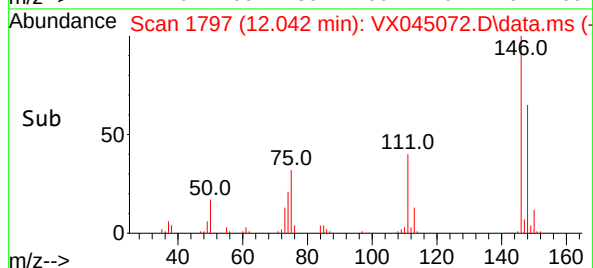
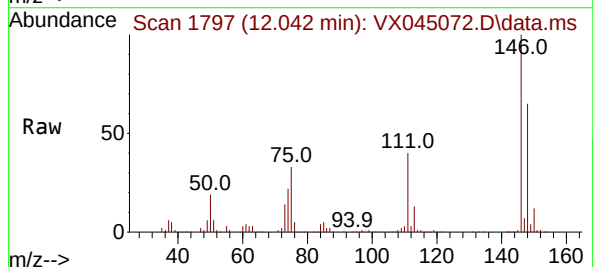
Tgt Ion:146 Resp: 230663

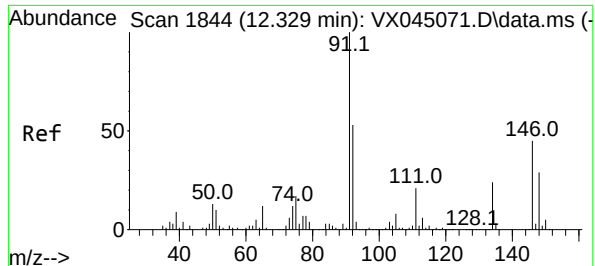
Ion Ratio Lower Upper

146 100

111 41.5 20.2 60.5

148 63.9 31.9 95.9





#89

n-Butylbenzene

Concen: 107.000 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 428209

Ion Ratio Lower Upper

91 100

92 54.4 26.7 80.0

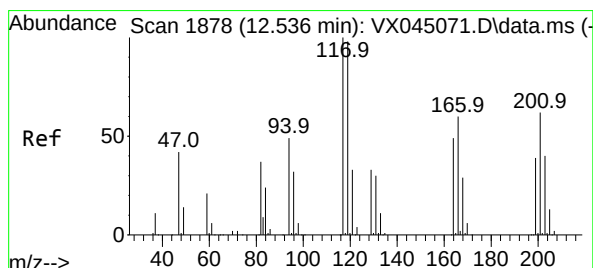
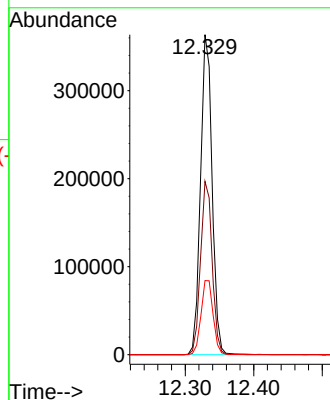
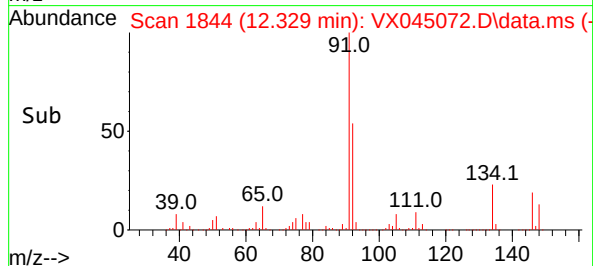
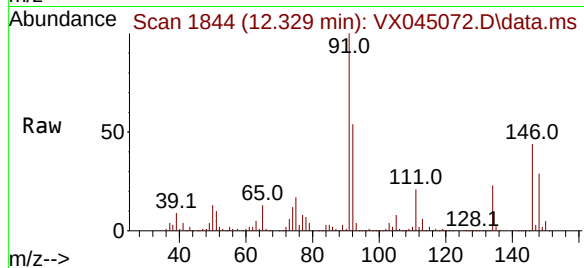
134 24.2 12.2 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#90

Hexachloroethane

Concen: 102.980 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX045072.D

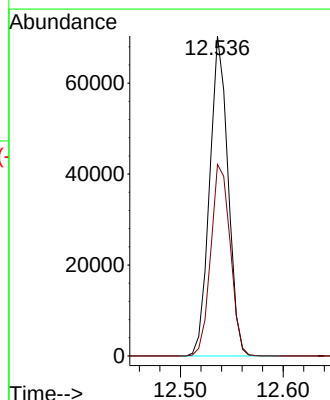
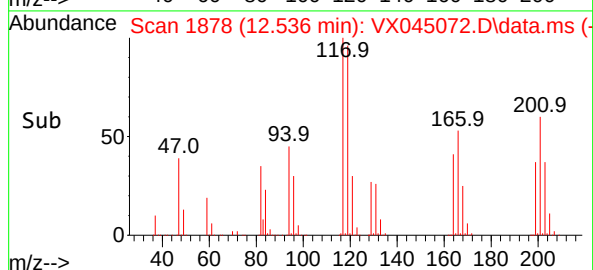
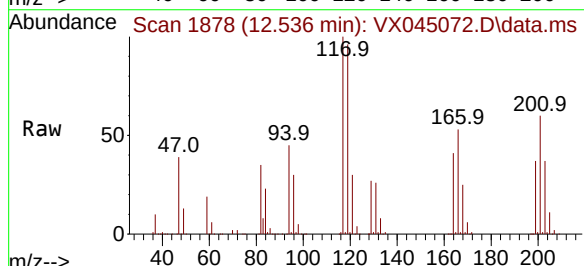
Acq: 28 Feb 2025 03:23

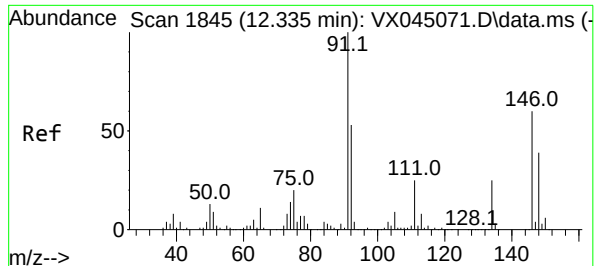
Tgt Ion:117 Resp: 87448

Ion Ratio Lower Upper

117 100

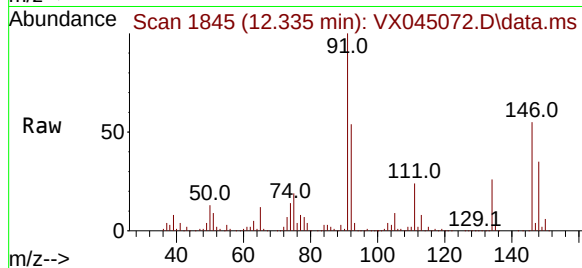
201 63.4 31.9 95.9





#91
1,2-Dichlorobenzene
Concen: 102.254 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

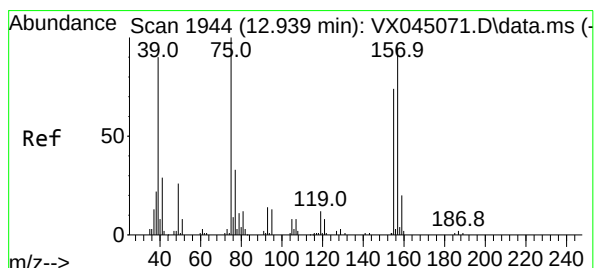
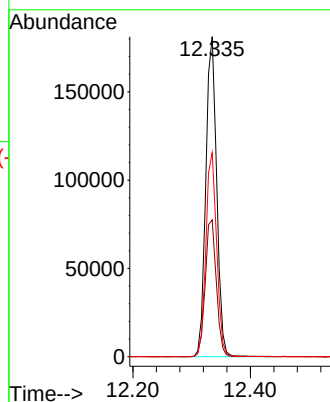
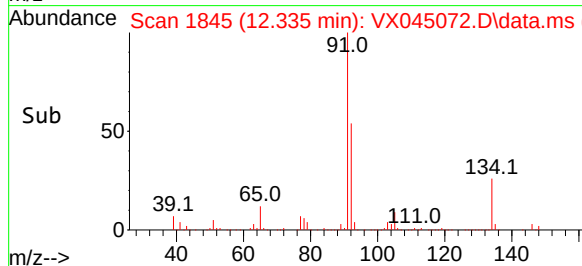
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100



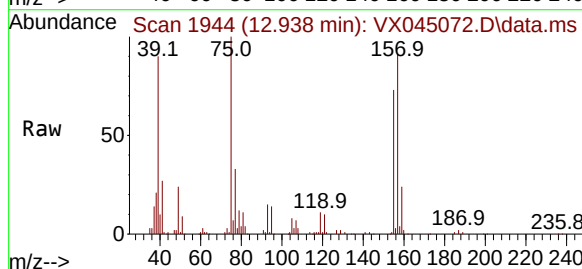
Tgt Ion:146 Resp: 233125
Ion Ratio Lower Upper
146 100
111 43.7 21.6 65.0
148 63.2 31.9 95.9

Manual Integrations
APPROVED

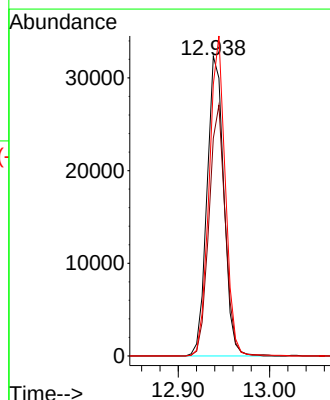
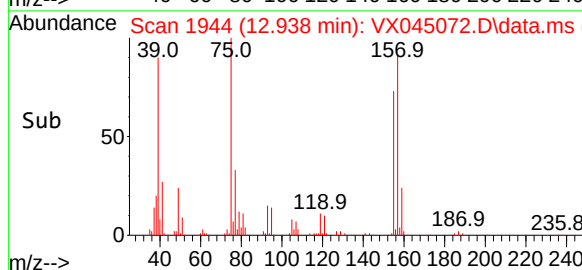
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

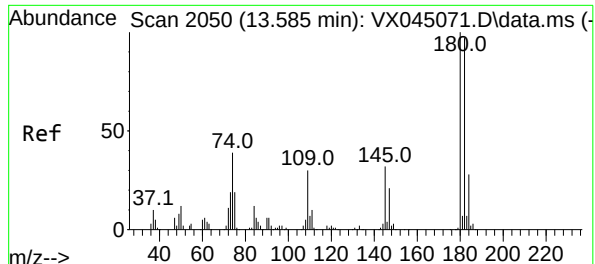


#92
1,2-Dibromo-3-Chloropropane
Concen: 116.296 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23



Tgt Ion: 75 Resp: 41402
Ion Ratio Lower Upper
75 100
155 80.6 39.6 118.7
157 101.8 51.1 153.4





#93

1,2,4-Trichlorobenzene

Concen: 107.648 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:180 Resp: 148368

Ion Ratio Lower Upper

180 100

182 95.1 47.3 141.9

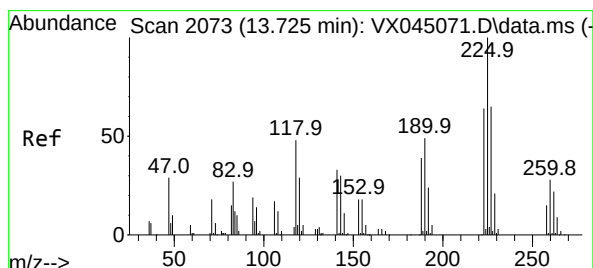
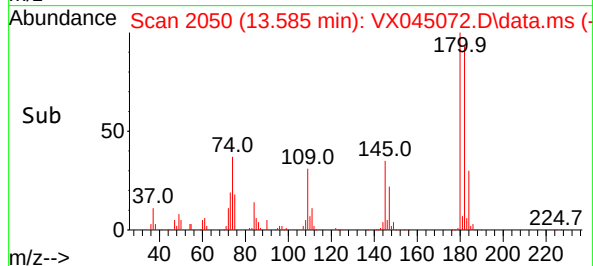
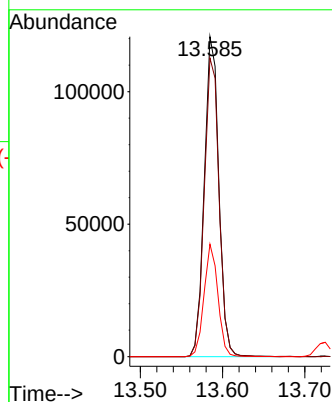
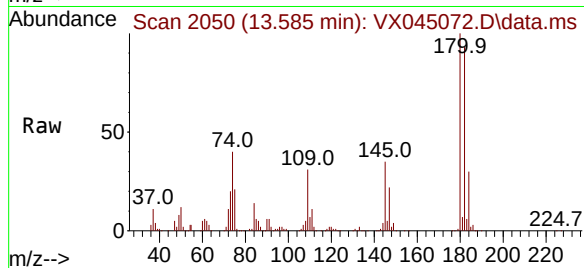
145 33.6 16.3 48.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#94

Hexachlorobutadiene

Concen: 102.019 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. -0.000 min

Lab File: VX045072.D

Acq: 28 Feb 2025 03:23

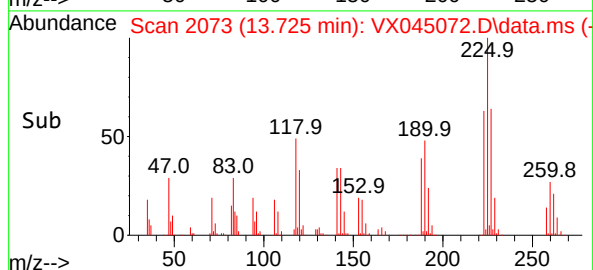
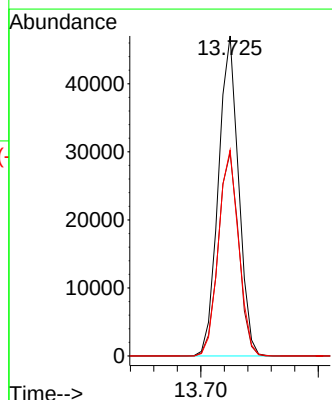
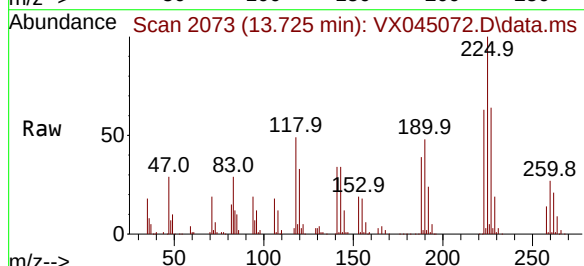
Tgt Ion:225 Resp: 56065

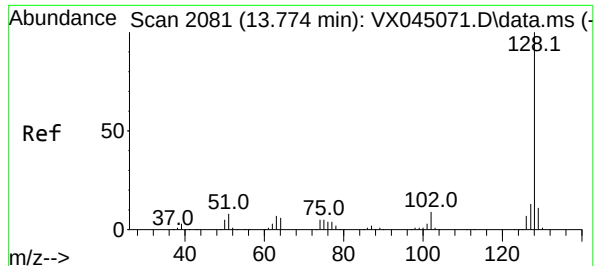
Ion Ratio Lower Upper

225 100

223 64.1 31.9 95.7

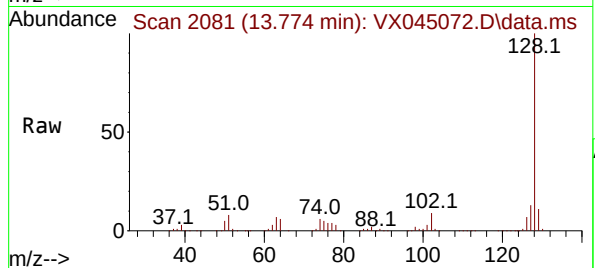
227 64.4 31.4 94.0





#95
Naphthalene
Concen: 112.593 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

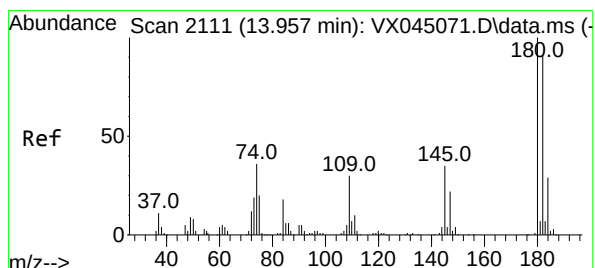
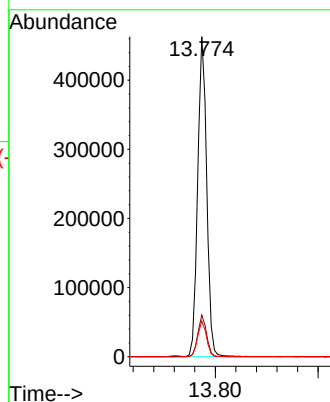
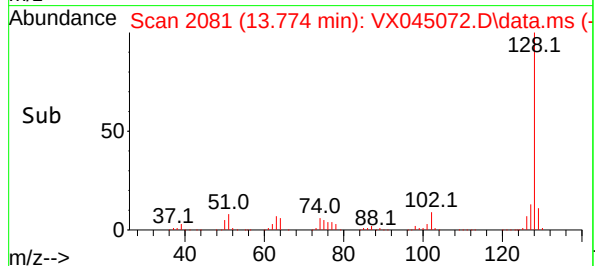
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100



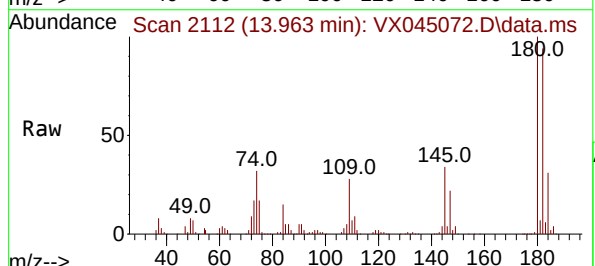
Tgt Ion:128 Resp: 565250
Ion Ratio Lower Upper
128 100
127 12.6 10.3 15.5
129 10.9 8.7 13.1

Manual Integrations
APPROVED

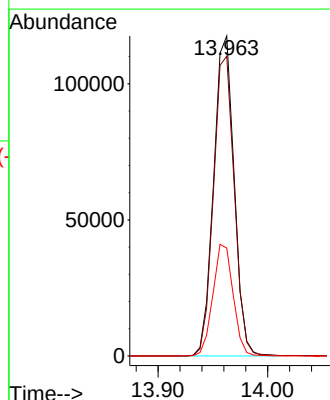
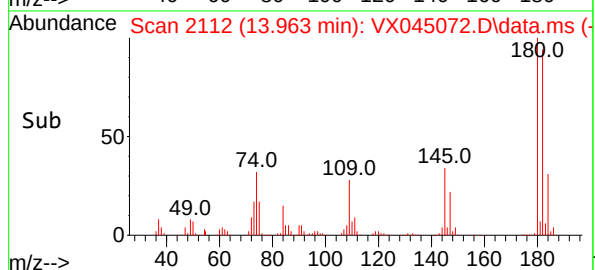
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 109.554 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23



Tgt Ion:180 Resp: 152970
Ion Ratio Lower Upper
180 100
182 95.2 47.5 142.6
145 34.5 17.0 50.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
 Data File : VX045073.D
 Acq On : 28 Feb 2025 03:47
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Feb 28 05:36:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 05:28:02 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 02/28/2025
 Supervised By : Mahesh Dadoda 02/28/2025

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	95754	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	176991	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	150547	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	67685	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	234624	165.865	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 331.740%#			
35) Dibromofluoromethane	5.379	113	179722	155.359	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 310.720%#			
50) Toluene-d8	8.647	98	638979	147.538	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 295.080%#			
62) 4-Bromofluorobenzene	11.079	95	223346	154.420	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 308.840%#			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.166	85	174297	132.067	ug/l	96
3) Chloromethane	1.307	50	213704	133.072	ug/l	97
4) Vinyl Chloride	1.374	62	217672	138.774	ug/l	97
5) Bromomethane	1.593	94	83547	170.379	ug/l	98
6) Chloroethane	1.660	64	82101	137.509	ug/l	95
7) Trichlorofluoromethane	1.861	101	272235	135.494	ug/l	98
8) Diethyl Ether	2.136	74	110005	150.660	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.313	101	161825	134.877	ug/l	99
10) Methyl Iodide	2.441	142	212355	138.059	ug/l	99
11) Tert butyl alcohol	3.014	59	195415	754.176	ug/l	97
12) 1,1-Dichloroethene	2.300	96	173271	140.655	ug/l	96
13) Acrolein	2.239	56	263999	940.846	ug/l	98
14) Allyl chloride	2.654	41	308018	139.077	ug/l	98
15) Acrylonitrile	3.069	53	573208	813.990	ug/l	99
16) Acetone	2.392	43	511828	879.387	ug/l	100
17) Carbon Disulfide	2.495	76	487720	145.511	ug/l	98
18) Methyl Acetate	2.709	43	258303	147.347	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	619778	157.358	ug/l	99
20) Methylene Chloride	2.782	84	202913	147.198	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	176924	146.027	ug/l	98
22) Diisopropyl ether	3.764	45	662828	156.526	ug/l	98
23) Vinyl Acetate	3.721	43	2943150	846.586	ug/l	99
24) 1,1-Dichloroethane	3.605	63	363081	153.453	ug/l	99
25) 2-Butanone	4.568	43	818497	872.239	ug/l	99
26) 2,2-Dichloropropane	4.465	77	179826	102.231	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	220826	151.205	ug/l	98
28) Bromochloromethane	4.891	49	171273	150.105	ug/l	100
29) Tetrahydrofuran	5.007	42	528574	850.174	ug/l	99
30) Chloroform	5.093	83	351934	152.067	ug/l	97
31) Cyclohexane	5.458	56	302215	139.174	ug/l	96
32) 1,1,1-Trichloroethane	5.379	97	294434	151.120	ug/l	100
36) 1,1-Dichloropropene	5.684	75	241405	145.112	ug/l	100
37) Ethyl Acetate	4.721	43	316250	167.067	ug/l	99
38) Carbon Tetrachloride	5.672	117	245917	150.363	ug/l	99
39) Methylcyclohexane	7.373	83	292216	137.544	ug/l	97
40) Benzene	6.031	78	755854	145.368	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
 Data File : VX045073.D
 Acq On : 28 Feb 2025 03:47
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/28/2025
 Supervised By : Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 05:36:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 05:28:02 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.928	41	175023	173.088	ug/l	99
42) 1,2-Dichloroethane	6.080	62	276129	163.872	ug/l	99
43) Isopropyl Acetate	6.342	43	511643	169.804	ug/l	99
44) Trichloroethene	7.123	130	178483	150.181	ug/l	97
45) 1,2-Dichloropropane	7.428	63	198135	153.334	ug/l	100
46) Dibromomethane	7.580	93	142119	157.443	ug/l	99
47) Bromodichloromethane	7.818	83	280255	160.492	ug/l	99
48) Methyl methacrylate	7.696	41	252275	176.370	ug/l	99
49) 1,4-Dioxane	7.665	88	96268	3166.423	ug/l	99
51) 4-Methyl-2-Pentanone	8.580	43	1536157	832.051	ug/l	99
52) Toluene	8.714	92	448664	145.321	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	266444	154.373	ug/l	96
54) cis-1,3-Dichloropropene	8.366	75	293521	152.117	ug/l	96
55) 1,1,2-Trichloroethane	9.147	97	178217	149.046	ug/l	98
56) Ethyl methacrylate	9.116	69	310992	162.631	ug/l	98
57) 1,3-Dichloropropane	9.305	76	312196	149.699	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	717328	764.019	ug/l	99
59) 2-Hexanone	9.433	43	1156653	868.492	ug/l	100
60) Dibromochloromethane	9.519	129	201906	158.276	ug/l	99
61) 1,2-Dibromoethane	9.610	107	185828	154.074	ug/l	100
64) Tetrachloroethene	9.269	164	139536	145.906	ug/l	94
65) Chlorobenzene	10.079	112	472117	146.096	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	163370	156.845	ug/l	97
67) Ethyl Benzene	10.189	91	852575	149.191	ug/l	99
68) m/p-Xylenes	10.299	106	607523	288.655	ug/l	97
69) o-Xylene	10.640	106	302495	143.259	ug/l	99
70) Styrene	10.653	104	512379	150.979	ug/l	99
71) Bromoform	10.799	173	135388	174.808	ug/l #	99
73) Isopropylbenzene	10.963	105	780706	142.719	ug/l	99
74) N-amyl acetate	10.842	43	429686	173.042	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.213	83	283558	150.458	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	229435m	151.960	ug/l	
77) Bromobenzene	11.195	156	180997	145.760	ug/l	96
78) n-propylbenzene	11.305	91	923593	146.395	ug/l	99
79) 2-Chlorotoluene	11.366	91	548695	141.695	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	635832	143.293	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	82267	147.761	ug/l	98
82) 4-Chlorotoluene	11.451	91	627816	146.464	ug/l	99
83) tert-Butylbenzene	11.713	119	641713	142.974	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	647248	148.135	ug/l	100
85) sec-Butylbenzene	11.890	105	807713	145.383	ug/l	100
86) p-Isopropyltoluene	12.006	119	664916	149.075	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	334751	147.488	ug/l	100
88) 1,4-Dichlorobenzene	12.043	146	333594	145.189	ug/l	99
89) n-Butylbenzene	12.329	91	620757	158.324	ug/l	99
90) Hexachloroethane	12.536	117	128582	154.554	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	329318	147.436	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	64958	186.240	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	219313	162.416	ug/l	99
94) Hexachlorobutadiene	13.725	225	80241	149.034	ug/l	99
95) Naphthalene	13.774	128	828949	168.538	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	222608	162.727	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045073.D
Acq On : 28 Feb 2025 03:47
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By : John Carlone 02/28/2025
Supervised By : Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 05:36:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

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

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

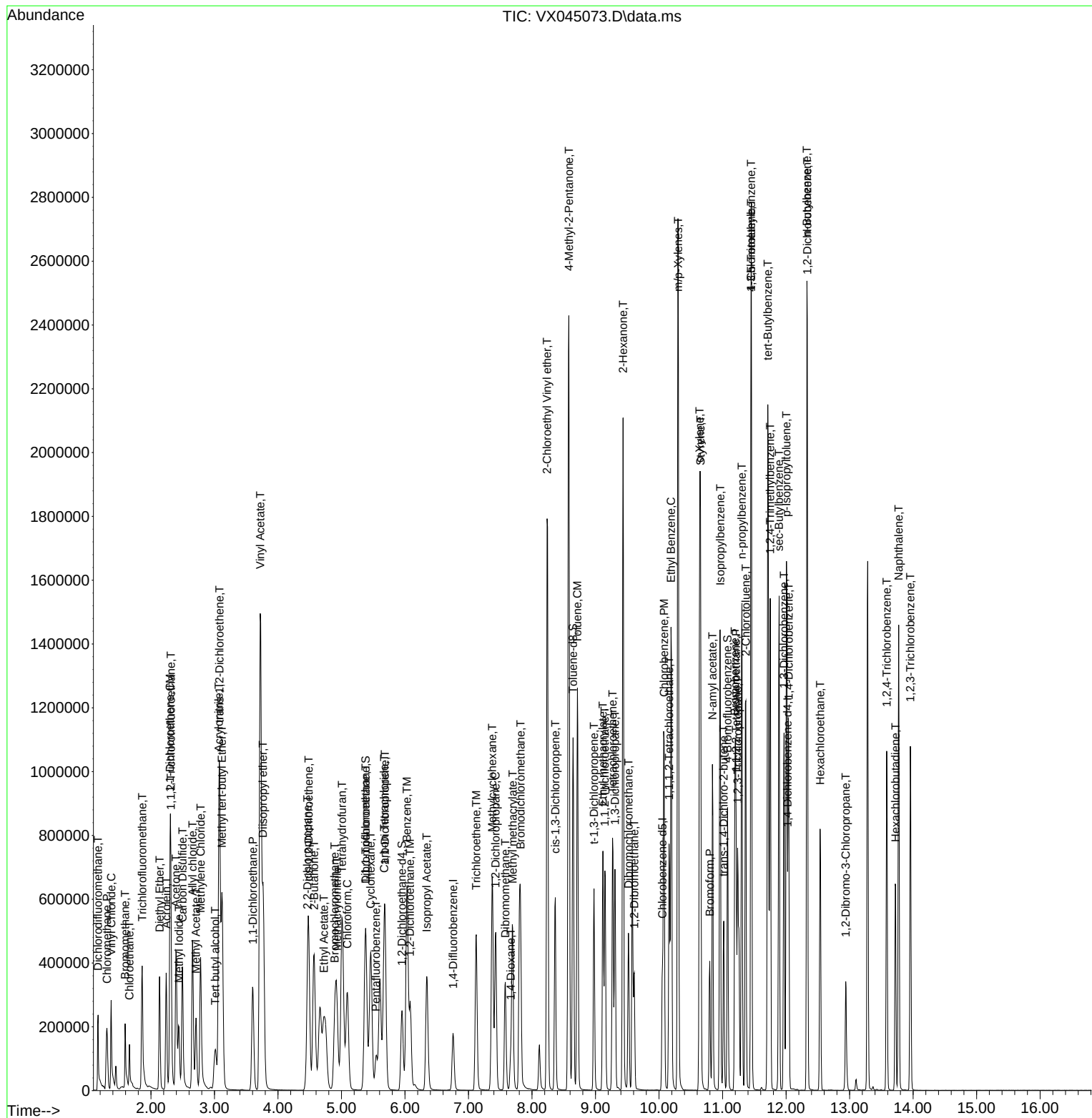
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Data File : VX045073.D  
Acq On    : 28 Feb 2025   03:47  
Operator  : JC/MD  
Sample    : VSTDICC150  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 22   Sample Multiplier: 1
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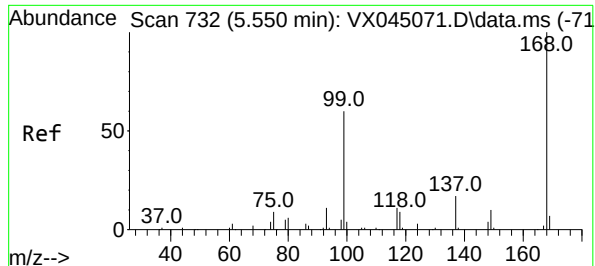
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

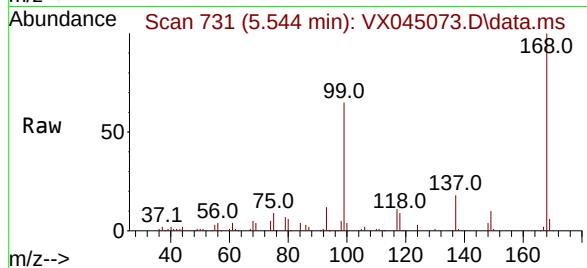
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

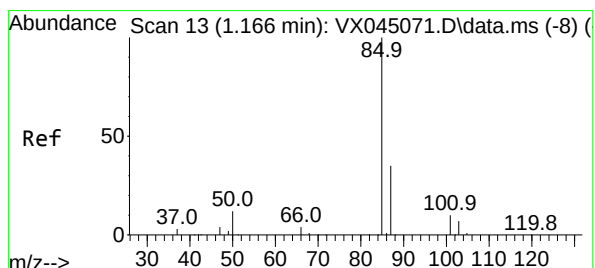
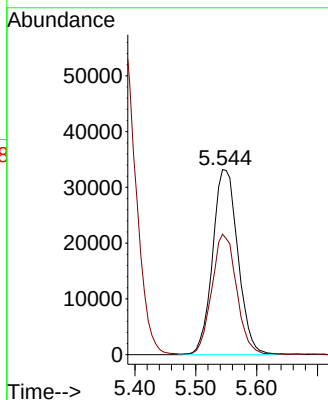
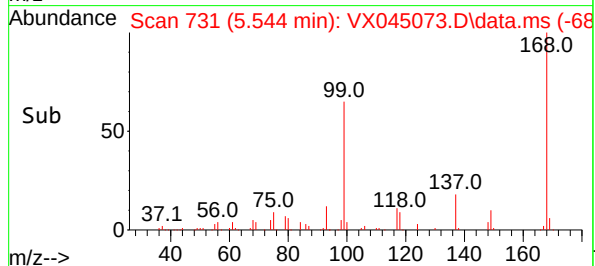
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:168 Resp: 95754
Ion Ratio Lower Upper
168 100
99 64.8 48.2 72.4

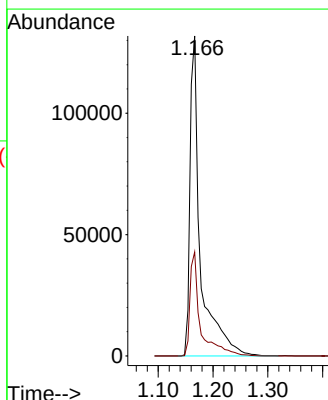
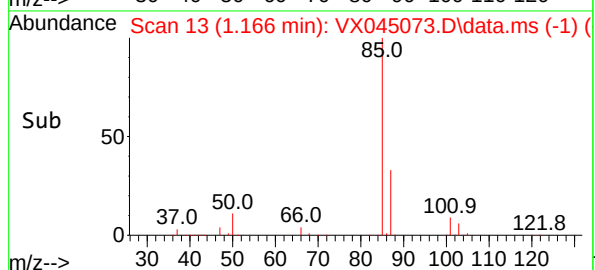
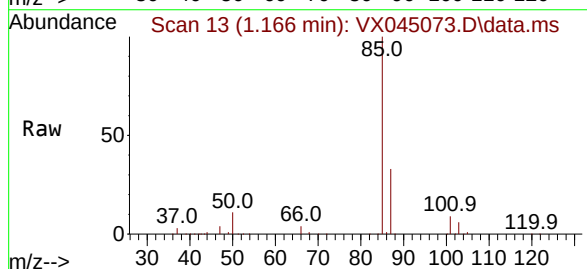
Manual Integrations
APPROVED

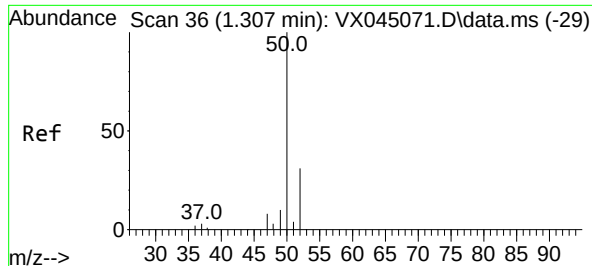
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#2
Dichlorodifluoromethane
Concen: 132.067 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 85 Resp: 174297
Ion Ratio Lower Upper
85 100
87 32.5 17.4 52.3





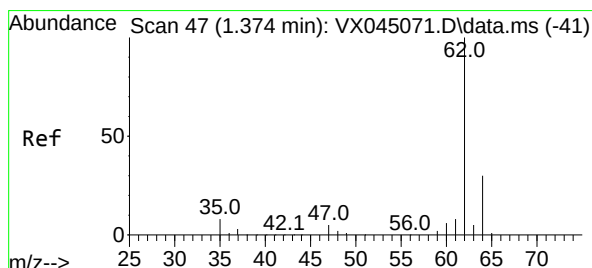
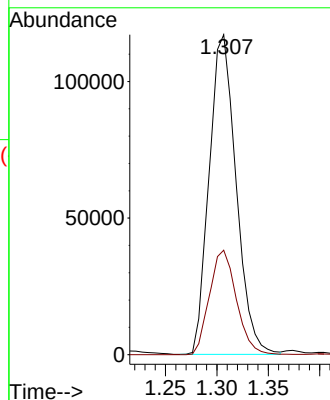
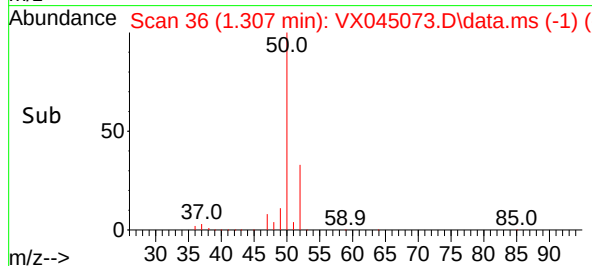
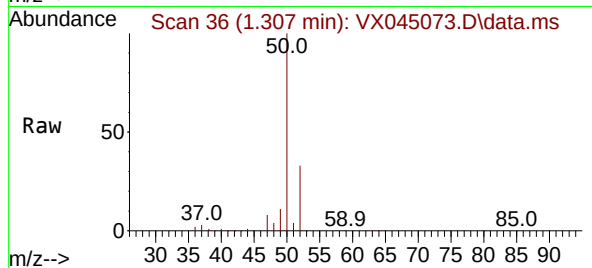
#3
Chloromethane
Concen: 133.072 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 213704
Ion Ratio Lower Upper
50 100
52 32.7 25.0 37.4

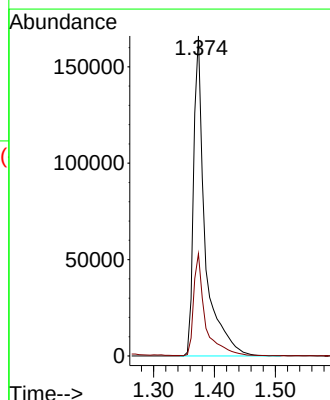
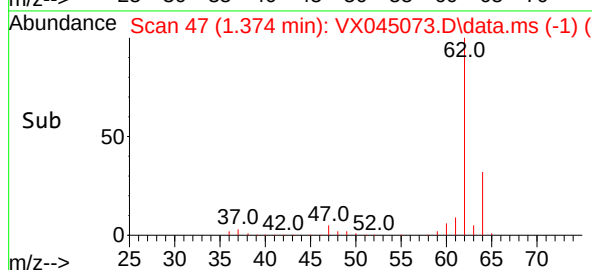
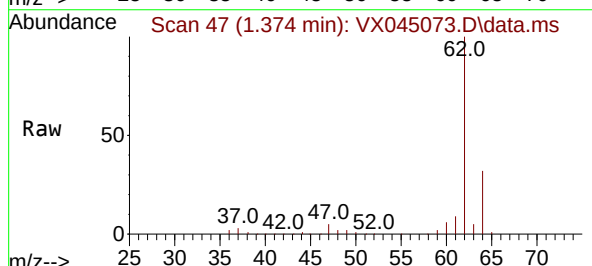
Manual Integrations
APPROVED

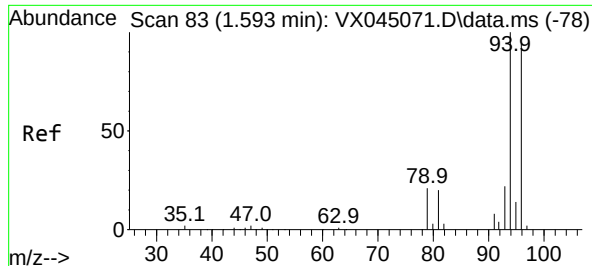
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#4
Vinyl Chloride
Concen: 138.774 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 62 Resp: 217672
Ion Ratio Lower Upper
62 100
64 31.8 24.3 36.5





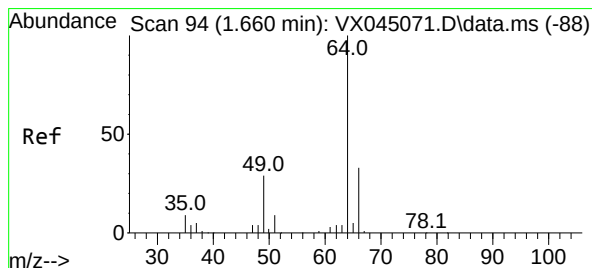
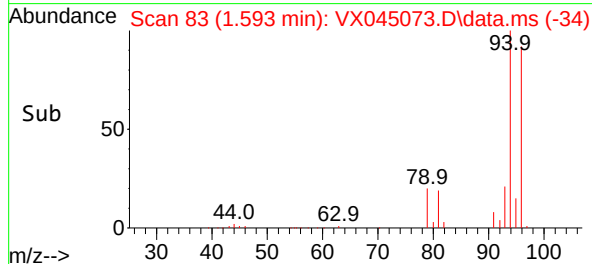
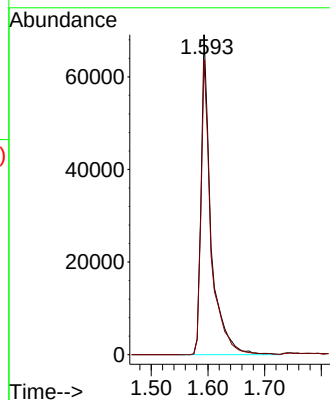
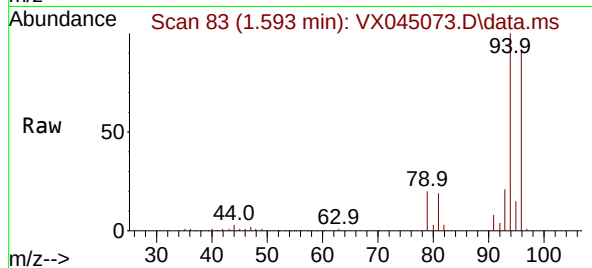
#5
Bromomethane
Concen: 170.379 ug/l
RT: 1.593 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion: 94 Resp: 8354
Ion Ratio Lower Upper
94 100
96 92.2 75.0 112.4

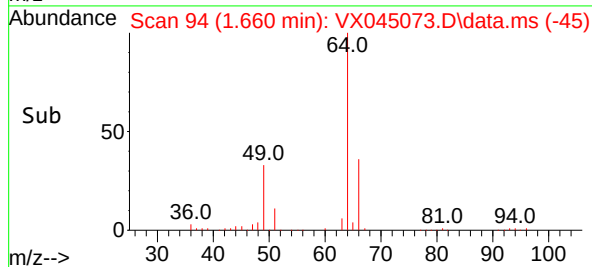
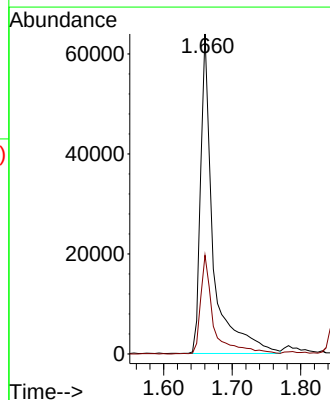
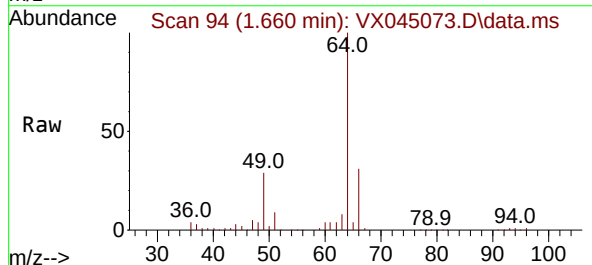
Manual Integrations
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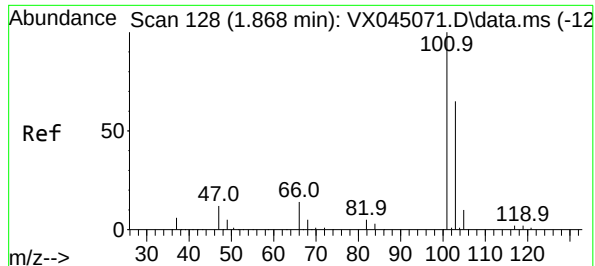
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#6
Chloroethane
Concen: 137.509 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

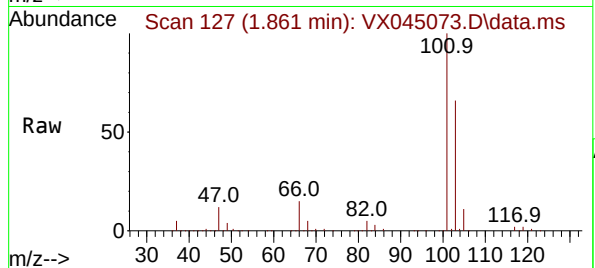
Tgt Ion: 64 Resp: 82101
Ion Ratio Lower Upper
64 100
66 30.8 26.7 40.1





#7
Trichlorofluoromethane
Concen: 135.494 ug/l
RT: 1.861 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

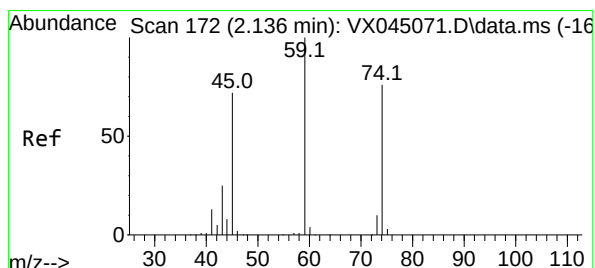
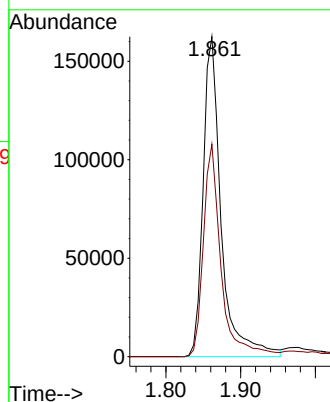
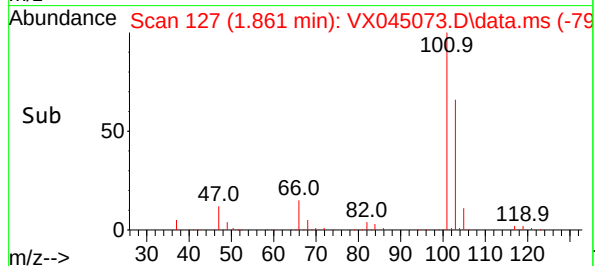
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:101 Resp: 272235
Ion Ratio Lower Upper
101 100
103 66.4 52.1 78.1

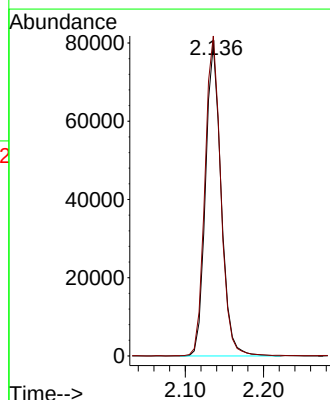
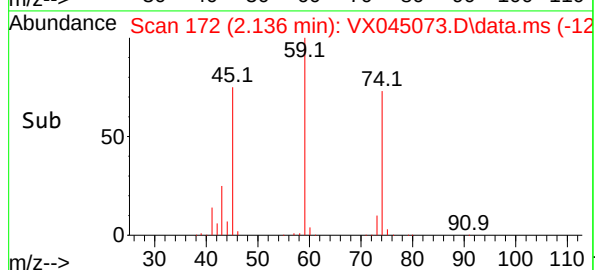
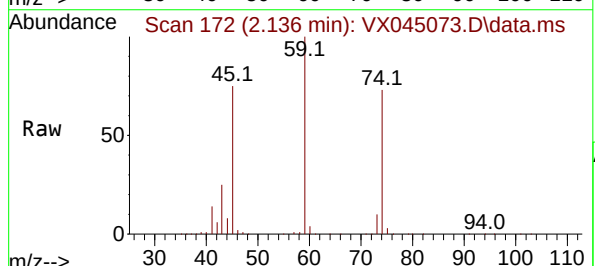
Manual Integrations
APPROVED

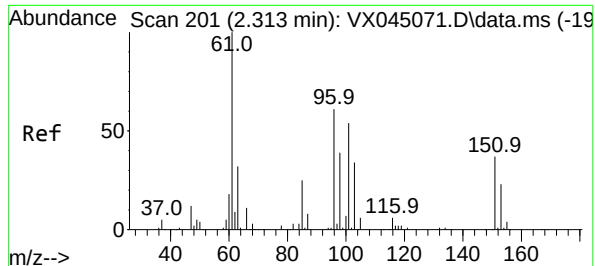
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#8
Diethyl Ether
Concen: 150.660 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 74 Resp: 110005
Ion Ratio Lower Upper
74 100
45 104.9 51.5 154.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 134.877 ug/l

RT: 2.313 min Scan# 201

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:101 Resp: 16182

Ion Ratio Lower Upper

101 100

85 45.8 36.2 54.4

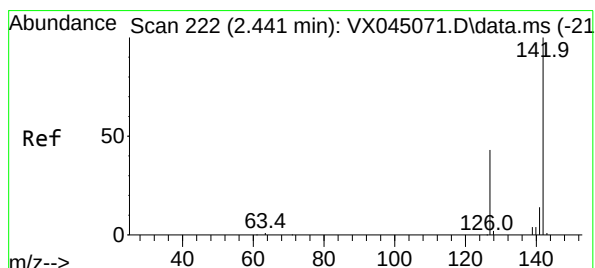
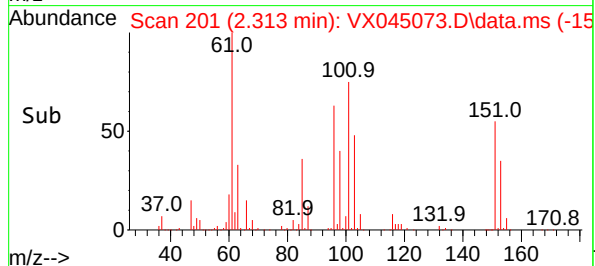
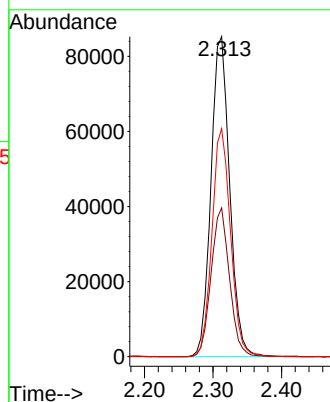
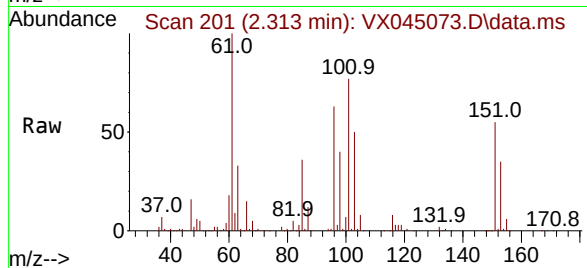
151 70.8 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#10

Methyl Iodide

Concen: 138.059 ug/l

RT: 2.441 min Scan# 222

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

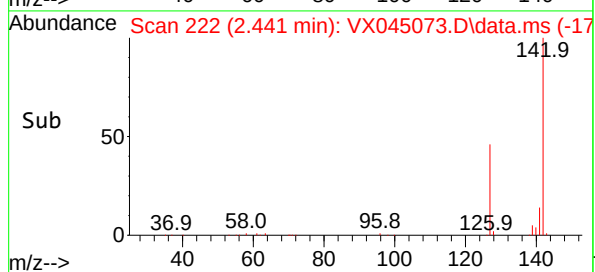
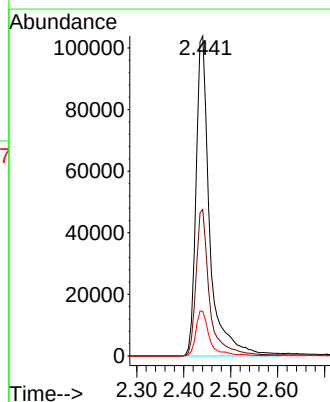
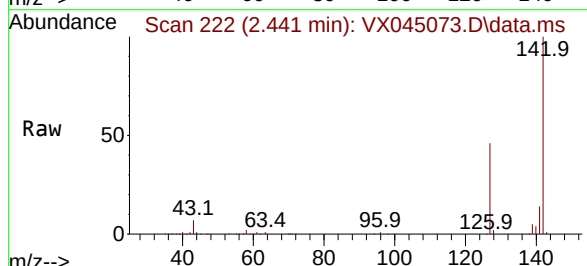
Tgt Ion:142 Resp: 212355

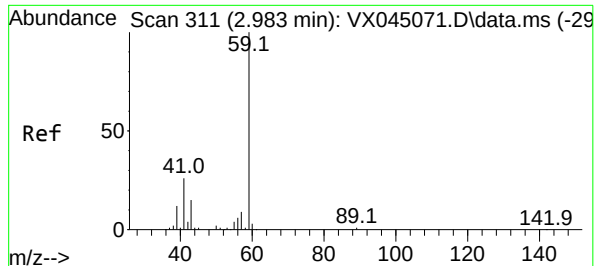
Ion Ratio Lower Upper

142 100

127 45.2 35.4 53.2

141 14.3 11.6 17.4





#11

Tert butyl alcohol

Concen: 754.176 ug/l

RT: 3.014 min Scan# 311

Delta R.T. 0.030 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 59 Resp: 19541

Ion Ratio Lower Upper

59 100

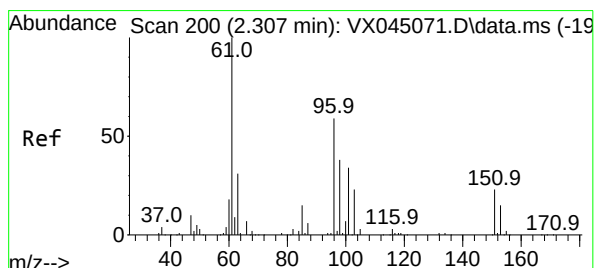
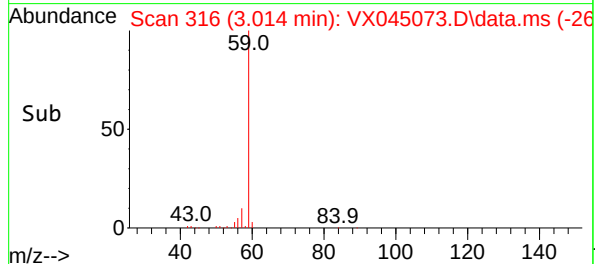
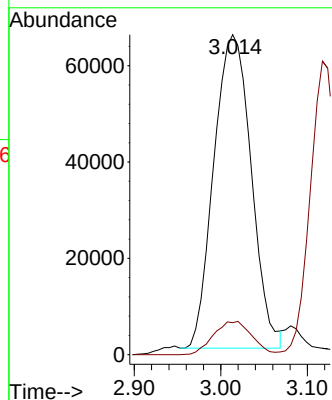
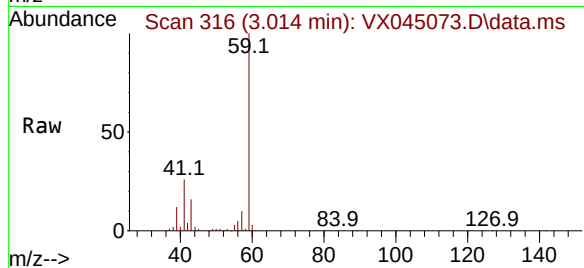
57 10.9 7.8 11.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#12

1,1-Dichloroethene

Concen: 140.655 ug/l

RT: 2.300 min Scan# 199

Delta R.T. -0.006 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

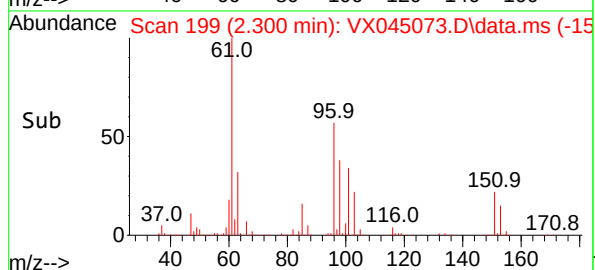
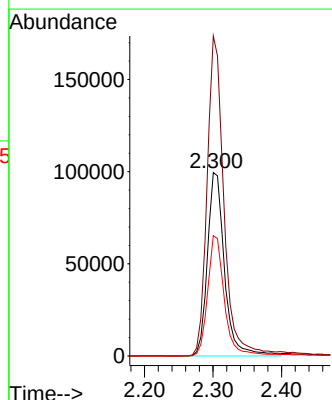
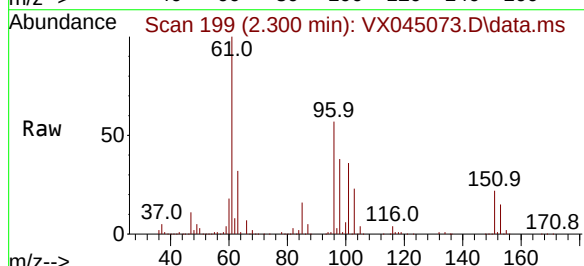
Tgt Ion: 96 Resp: 173271

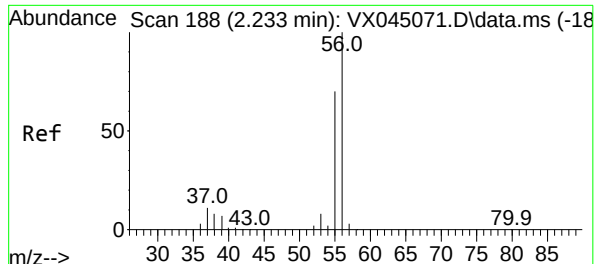
Ion Ratio Lower Upper

96 100

61 174.5 134.6 202.0

98 65.6 51.0 76.6





#13

Acrolein

Concen: 940.846 ug/l

RT: 2.239 min Scan# 188

Delta R.T. 0.006 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 56 Resp: 263999

Ion Ratio Lower Upper

56 100

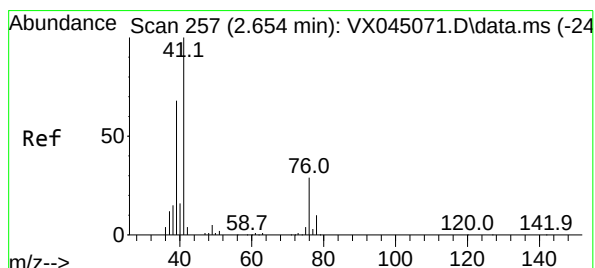
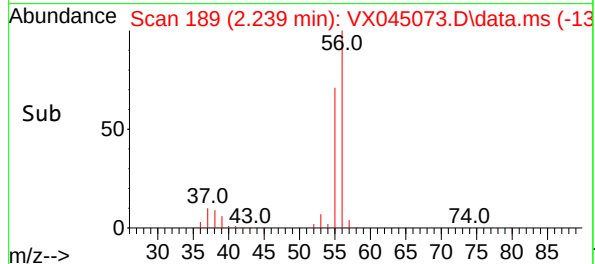
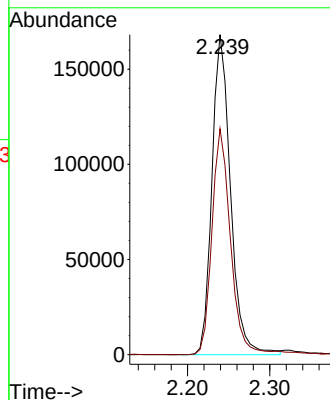
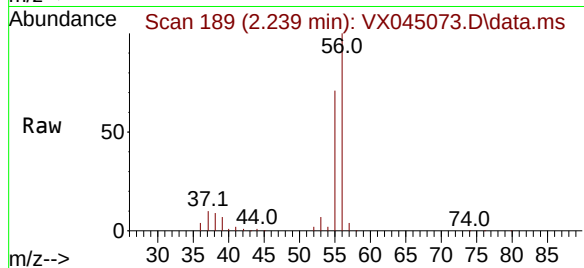
55 71.6 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#14

Allyl chloride

Concen: 139.077 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

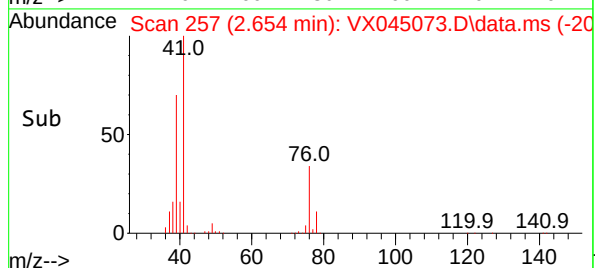
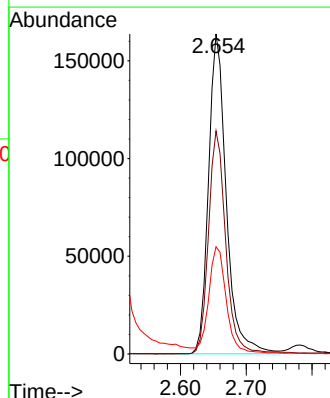
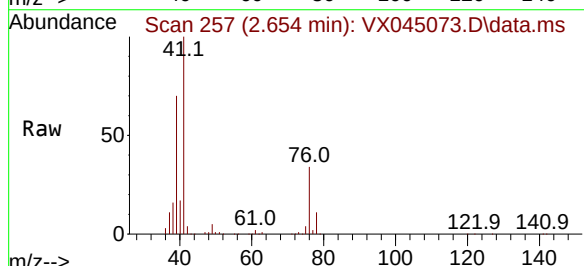
Tgt Ion: 41 Resp: 308018

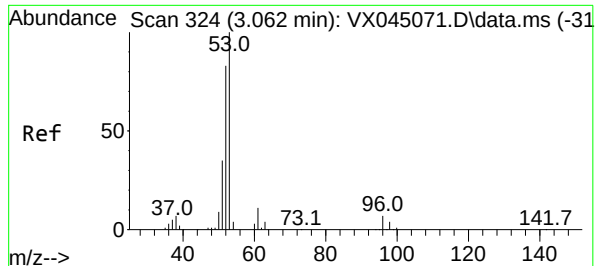
Ion Ratio Lower Upper

41 100

39 67.9 53.8 80.8

76 33.8 25.2 37.8





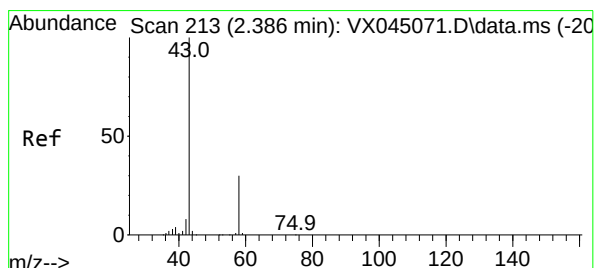
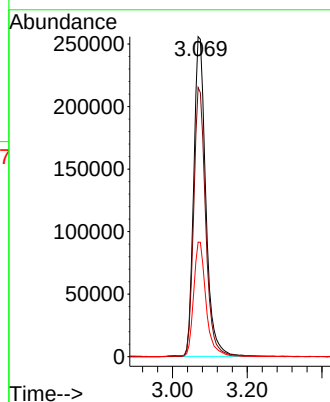
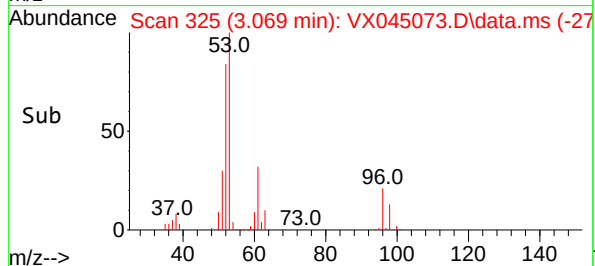
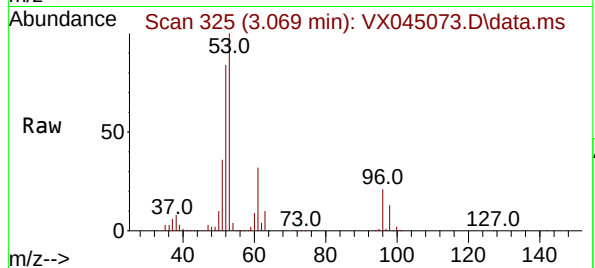
#15
Acrylonitrile
Concen: 813.990 ug/l
RT: 3.069 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion: 53 Resp: 573208
Ion Ratio Lower Upper
53 100
52 83.3 66.2 99.2
51 37.0 29.0 43.4

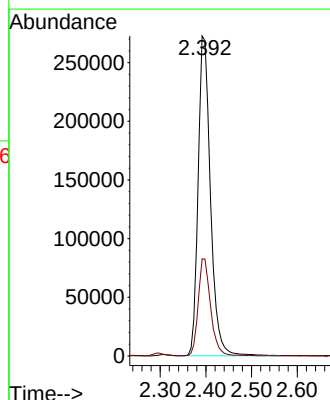
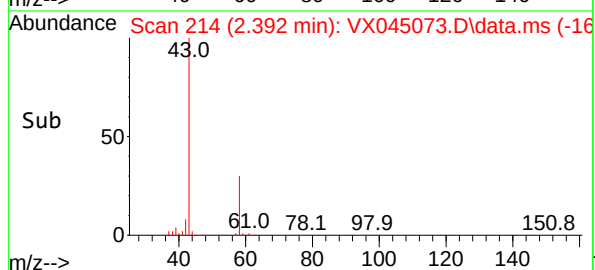
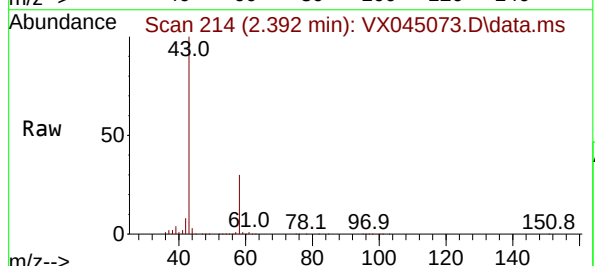
Manual Integrations
APPROVED

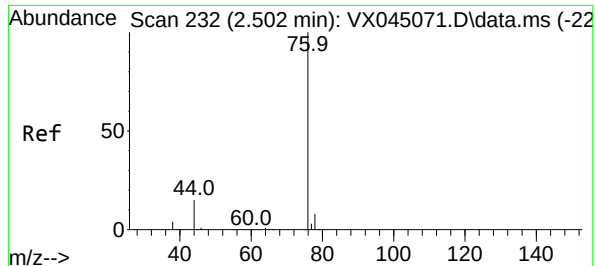
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#16
Acetone
Concen: 879.387 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 43 Resp: 511828
Ion Ratio Lower Upper
43 100
58 30.3 24.2 36.4





#17

Carbon Disulfide

Concen: 145.511 ug/l

RT: 2.495 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 76 Resp: 487720

Ion Ratio Lower Upper

76 100

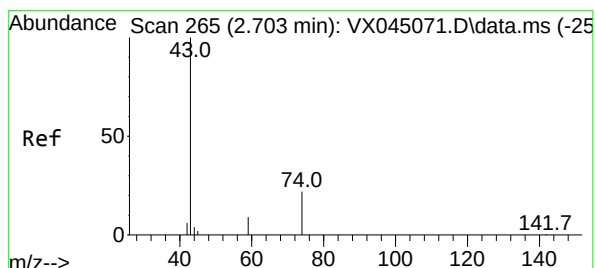
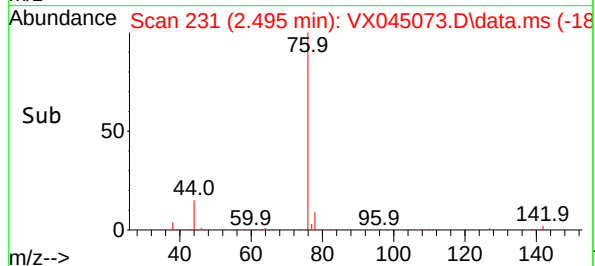
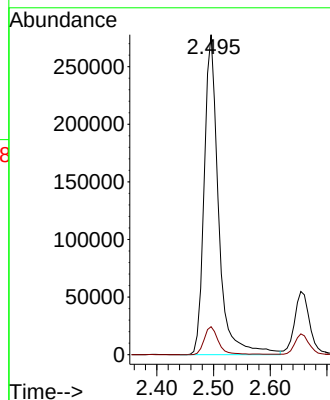
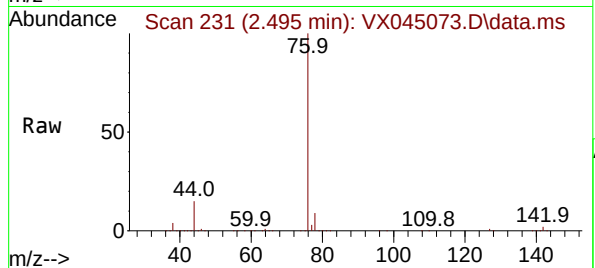
78 8.8 6.6 9.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#18

Methyl Acetate

Concen: 147.347 ug/l

RT: 2.709 min Scan# 266

Delta R.T. 0.006 min

Lab File: VX045073.D

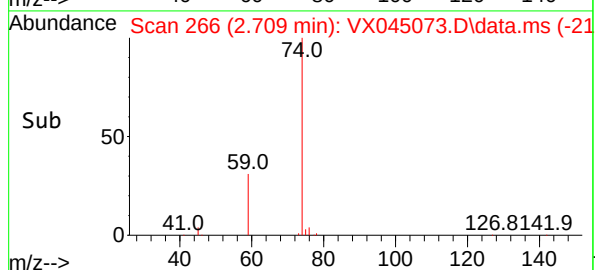
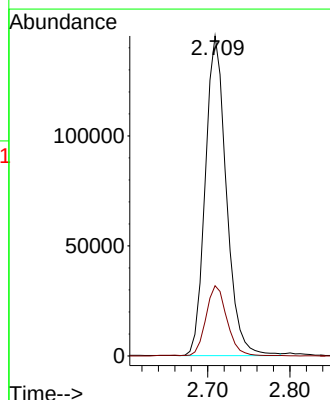
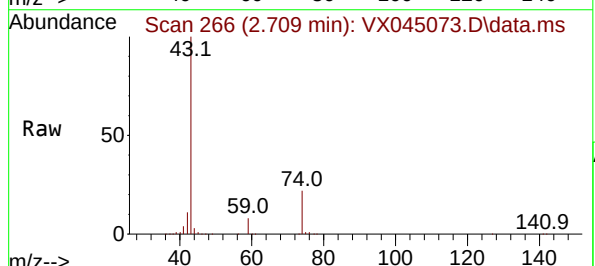
Acq: 28 Feb 2025 03:47

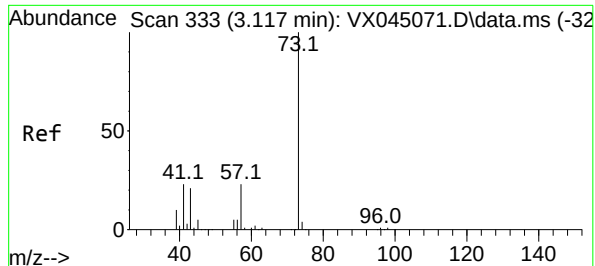
Tgt Ion: 43 Resp: 258303

Ion Ratio Lower Upper

43 100

74 22.0 17.4 26.2





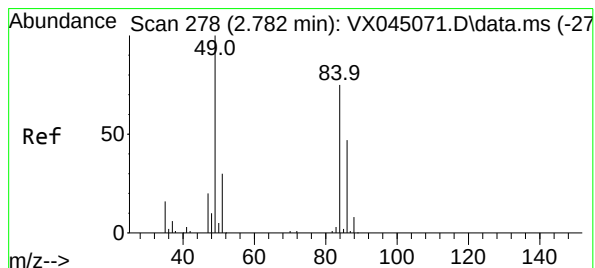
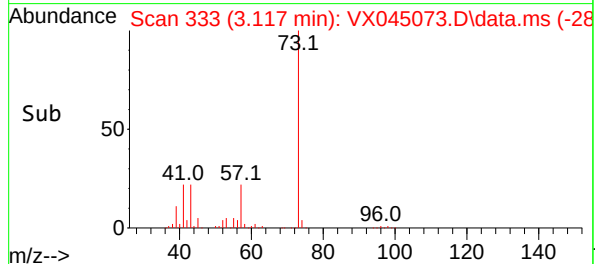
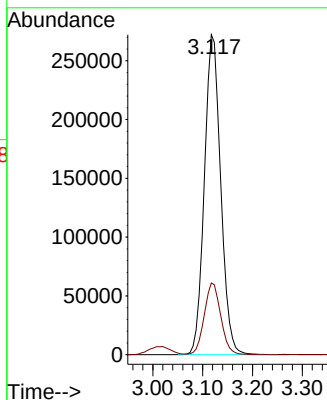
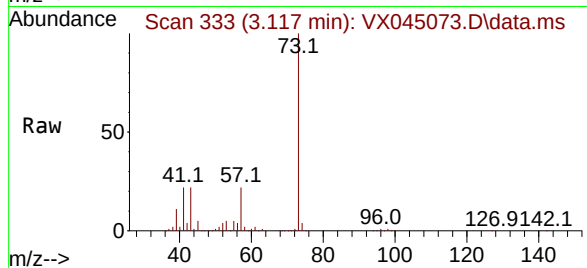
#19
Methyl tert-butyl Ether
Concen: 157.358 ug/l
RT: 3.117 min Scan# 311
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion: 73 Resp: 619778
Ion Ratio Lower Upper
73 100
57 22.4 18.5 27.7

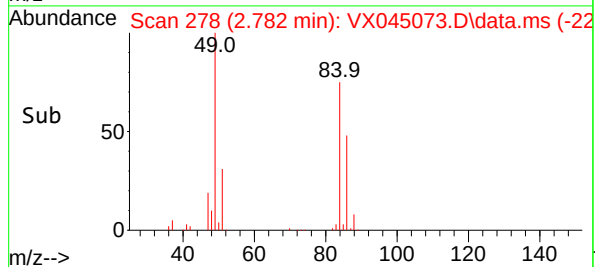
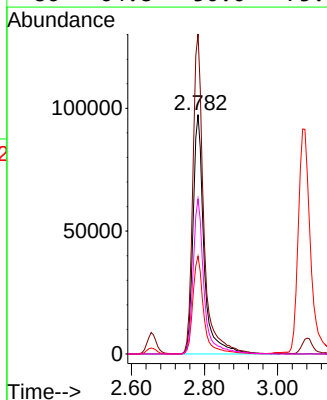
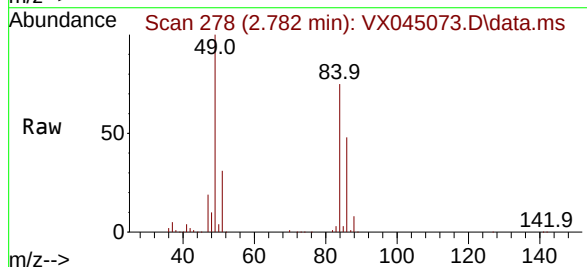
Manual Integrations
APPROVED

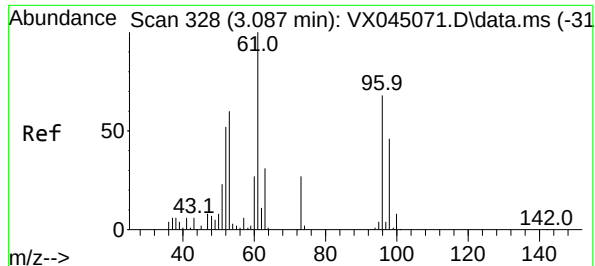
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#20
Methylene Chloride
Concen: 147.198 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 84 Resp: 202913
Ion Ratio Lower Upper
84 100
49 133.6 106.5 159.7
51 40.9 32.1 48.1
86 64.8 50.0 75.0





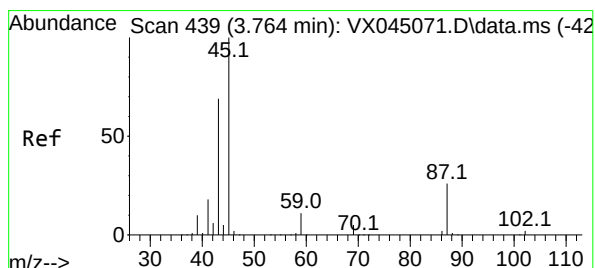
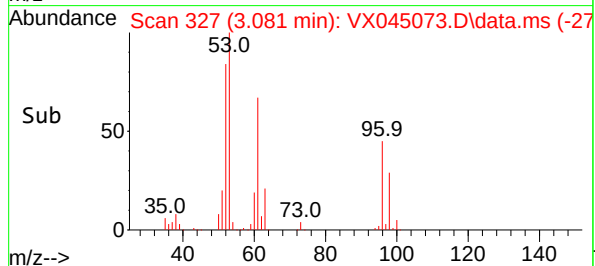
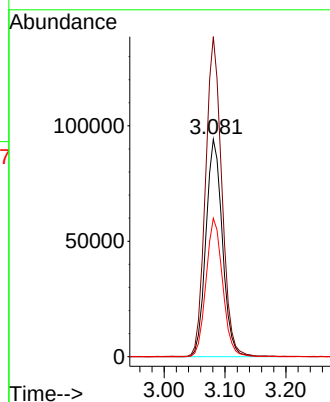
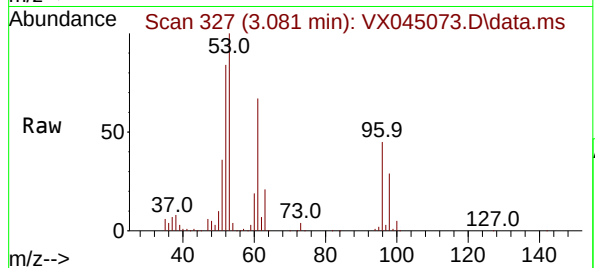
#21
trans-1,2-Dichloroethene
Concen: 146.027 ug/l
RT: 3.081 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 176924
Ion Ratio Lower Upper
96 100
61 147.0 117.0 175.4
98 63.6 53.4 80.2

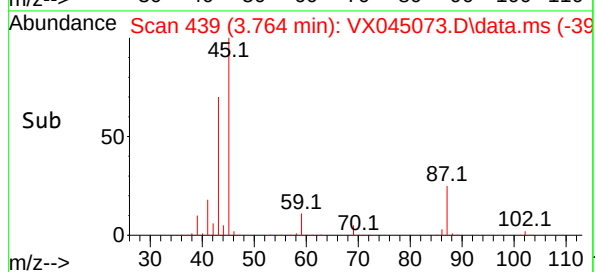
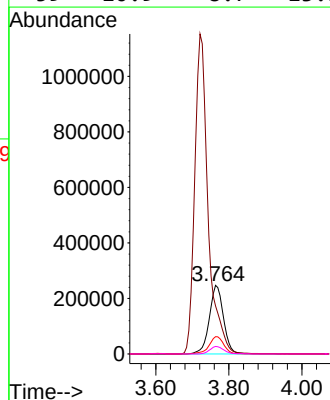
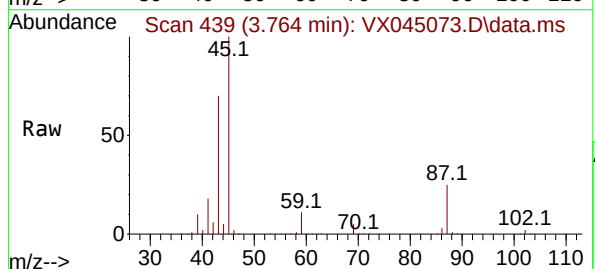
Manual Integrations
APPROVED

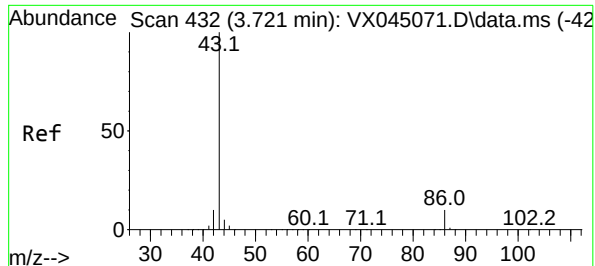
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#22
Diisopropyl ether
Concen: 156.526 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 45 Resp: 662828
Ion Ratio Lower Upper
45 100
43 70.0 54.9 82.3
87 25.2 21.0 31.4
59 10.9 8.7 13.1





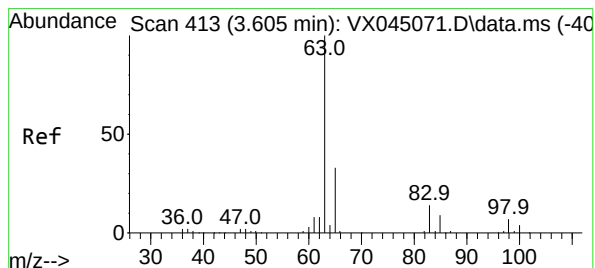
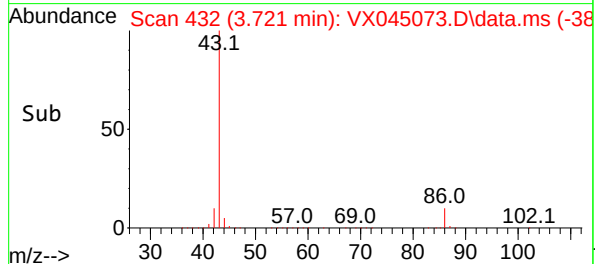
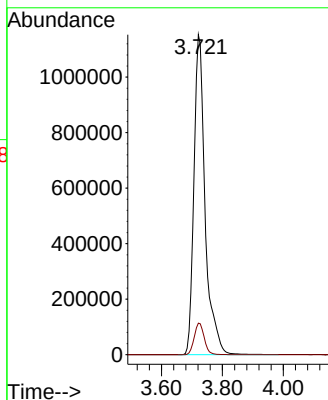
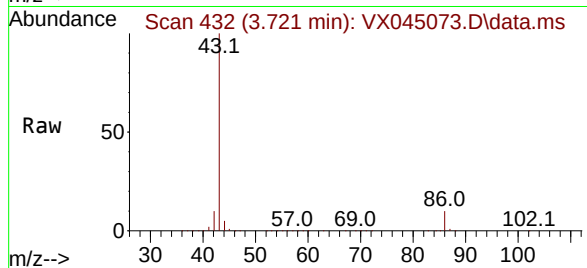
#23
Vinyl Acetate
Concen: 846.586 ug/l
RT: 3.721 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 2943150
Ion Ratio Lower Upper
43 100
86 9.8 8.1 12.1

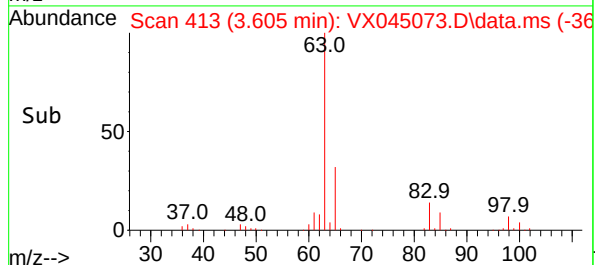
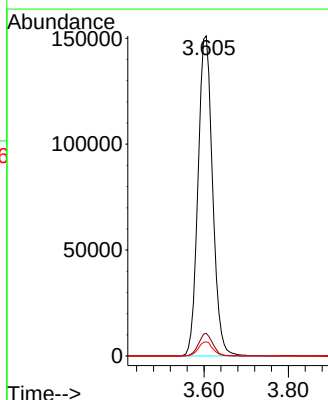
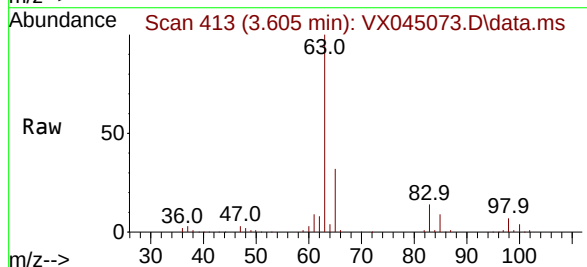
Manual Integrations
APPROVED

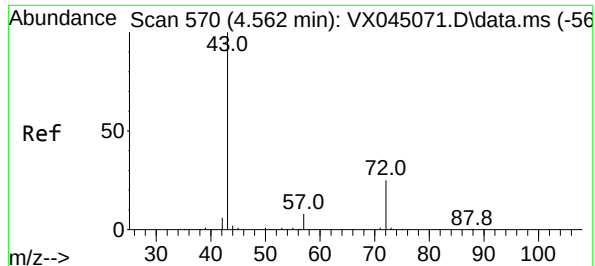
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#24
1,1-Dichloroethane
Concen: 153.453 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 63 Resp: 363081
Ion Ratio Lower Upper
63 100
98 7.1 3.4 10.2
100 4.4 2.1 6.5





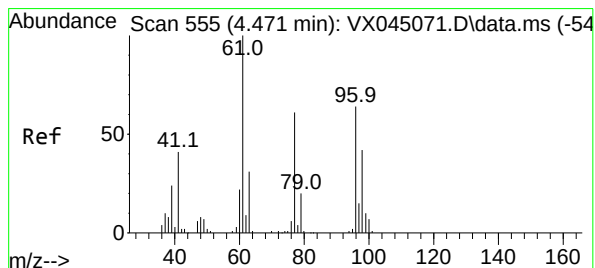
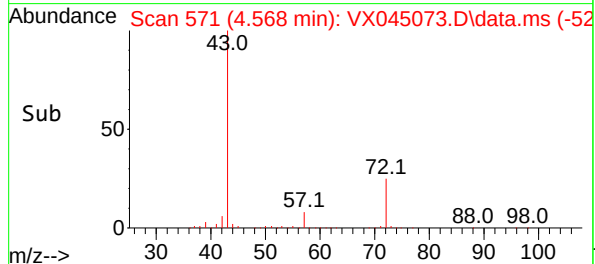
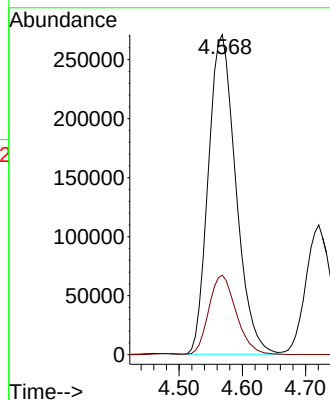
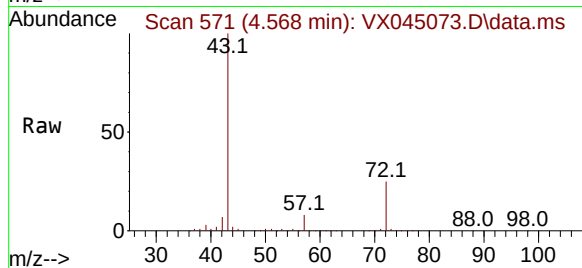
#25
2-Butanone
Concen: 872.239 ug/l
RT: 4.568 min Scan# 51
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion: 43 Resp: 81849
Ion Ratio Lower Upper
43 100
72 24.7 20.0 30.0

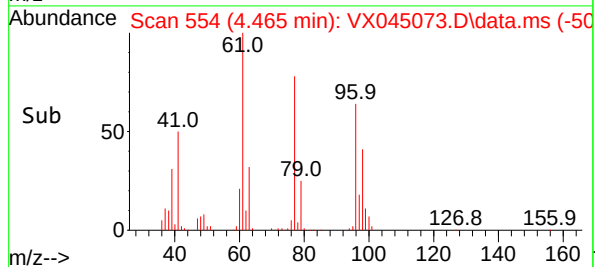
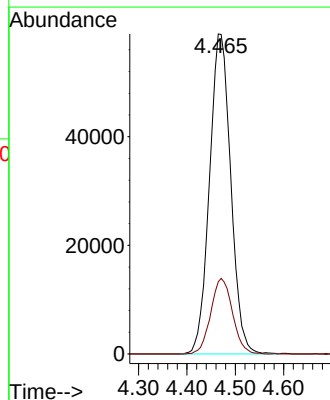
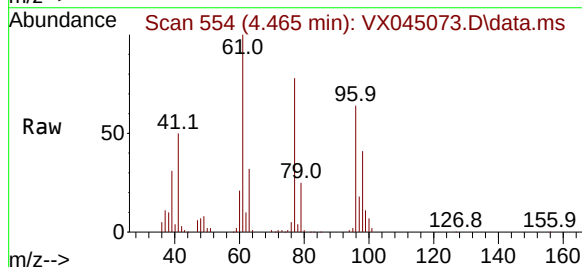
Manual Integrations
APPROVED

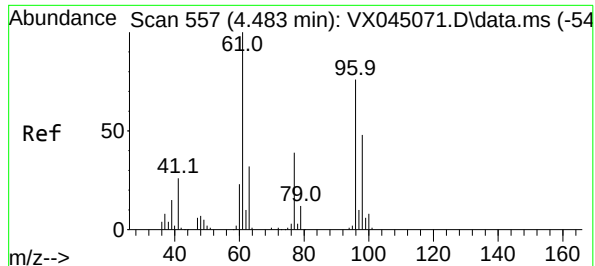
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#26
2,2-Dichloropropane
Concen: 102.231 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 77 Resp: 179826
Ion Ratio Lower Upper
77 100
97 24.1 12.4 37.0





#27

cis-1,2-Dichloroethene

Concen: 151.205 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 96 Resp: 220820

Ion Ratio Lower Upper

96 100

61 144.2 0.0 283.2

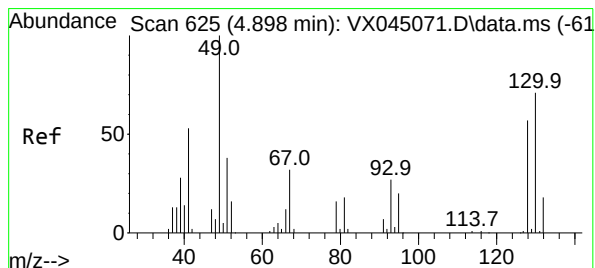
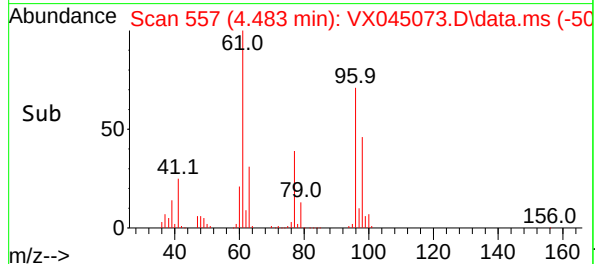
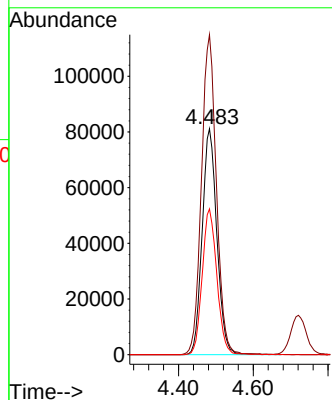
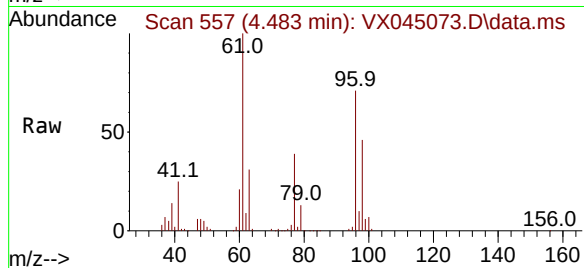
98 64.3 0.0 128.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#28

Bromochloromethane

Concen: 150.105 ug/l

RT: 4.891 min Scan# 624

Delta R.T. -0.006 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

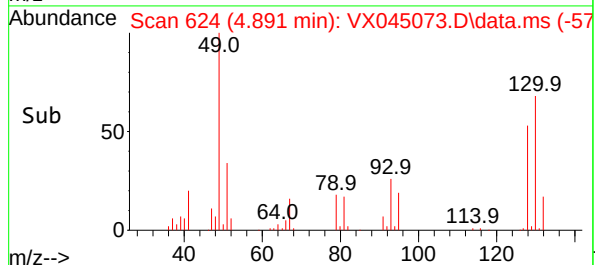
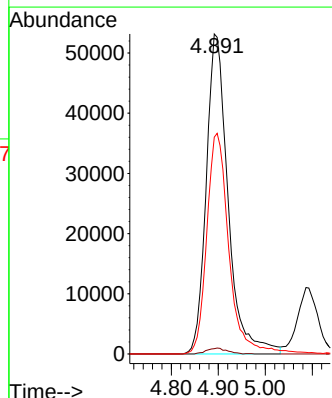
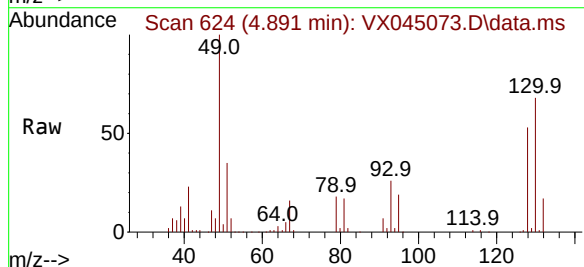
Tgt Ion: 49 Resp: 171273

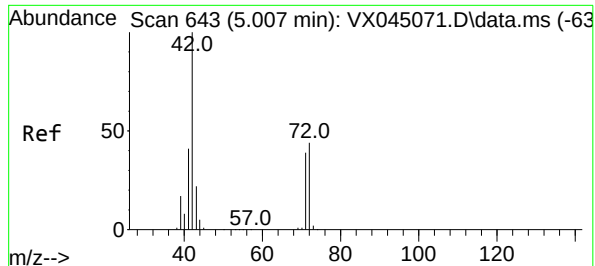
Ion Ratio Lower Upper

49 100

129 1.7 0.0 3.4

130 70.3 56.1 84.1





#29

Tetrahydrofuran

Concen: 850.174 ug/l

RT: 5.007 min Scan# 64

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 42 Resp: 528574

Ion Ratio Lower Upper

42 100

72 42.8 34.1 51.1

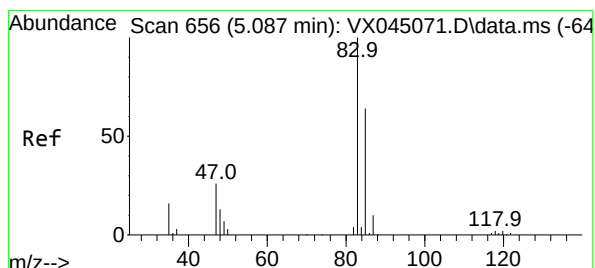
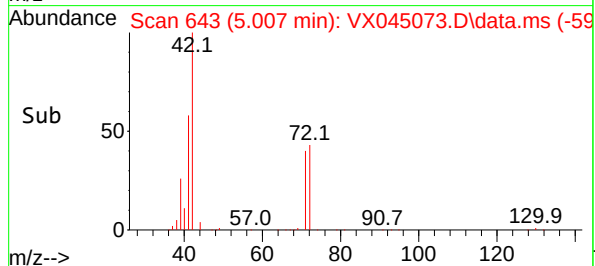
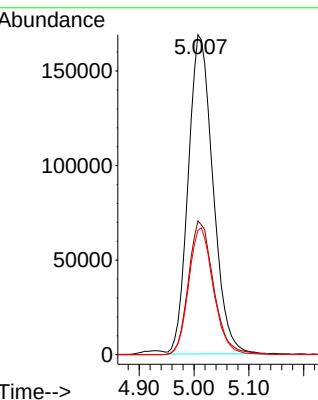
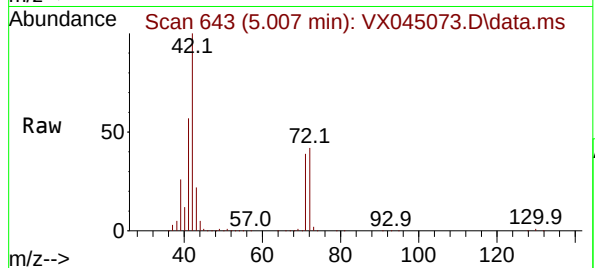
71 39.7 31.4 47.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#30

Chloroform

Concen: 152.067 ug/l

RT: 5.093 min Scan# 657

Delta R.T. 0.006 min

Lab File: VX045073.D

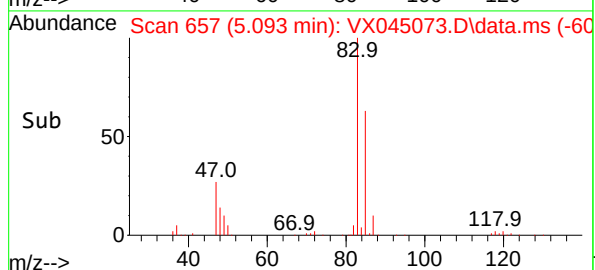
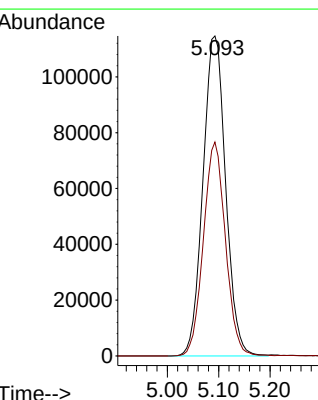
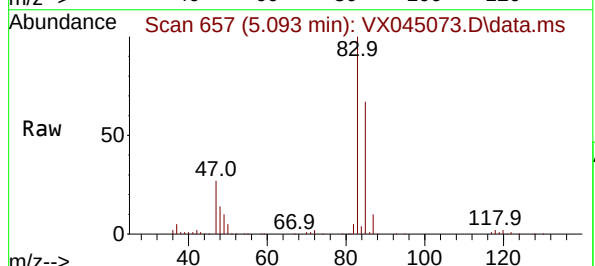
Acq: 28 Feb 2025 03:47

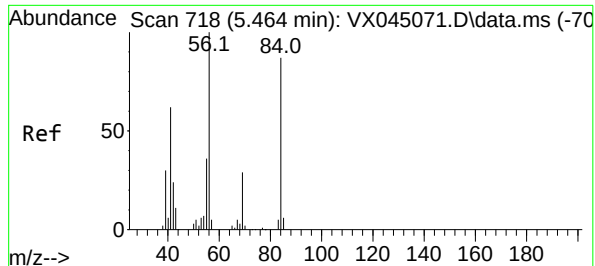
Tgt Ion: 83 Resp: 351934

Ion Ratio Lower Upper

83 100

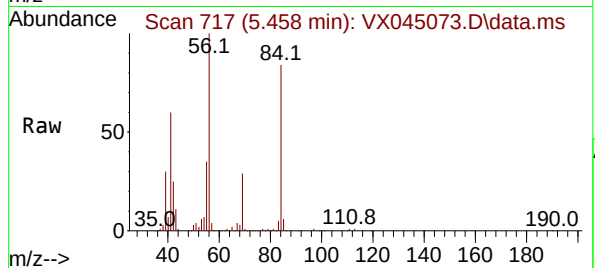
85 66.9 51.4 77.2





#31
Cyclohexane
Concen: 139.174 ug/l
RT: 5.458 min Scan# 717
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

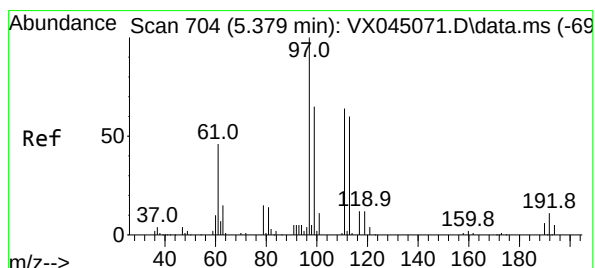
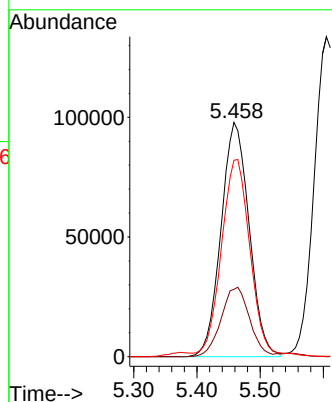
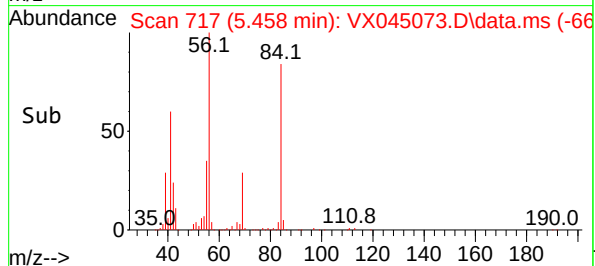
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion: 56 Resp: 302215
Ion Ratio Lower Upper
56 100
69 28.8 23.4 35.2
84 82.2 69.4 104.2

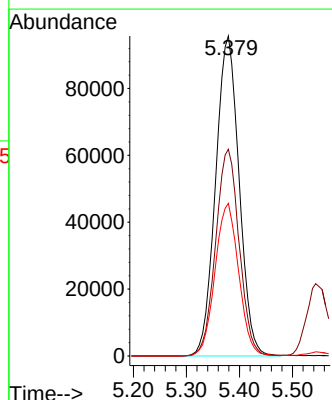
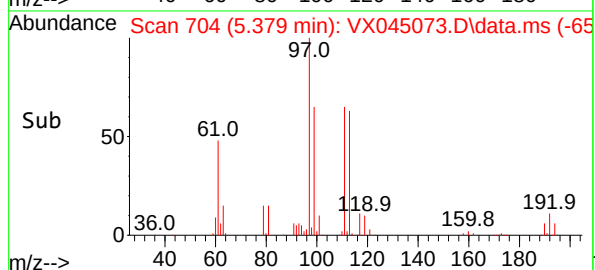
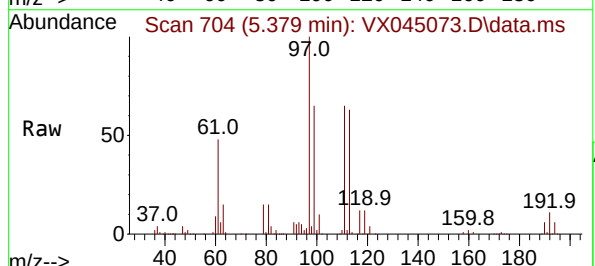
Manual Integrations
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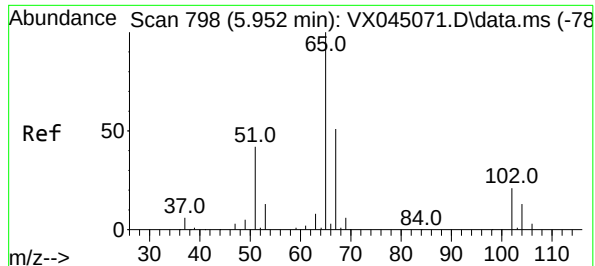
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#32
1,1,1-Trichloroethane
Concen: 151.120 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 97 Resp: 294434
Ion Ratio Lower Upper
97 100
99 64.7 51.6 77.4
61 48.1 38.4 57.6





#33

1,2-Dichloroethane-d4

Concen: 165.865 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 65 Resp: 234624

Ion Ratio Lower Upper

65 100

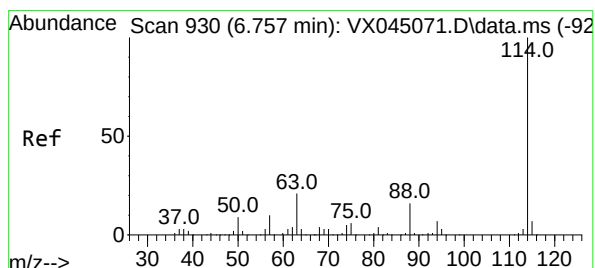
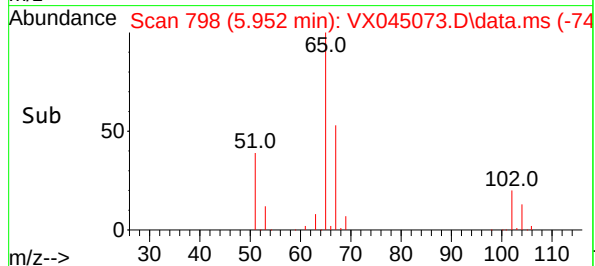
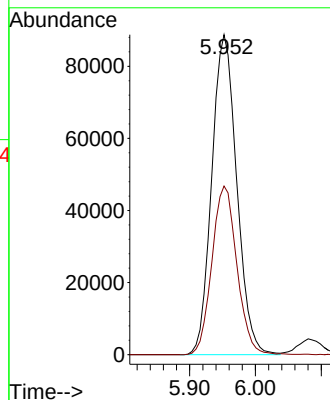
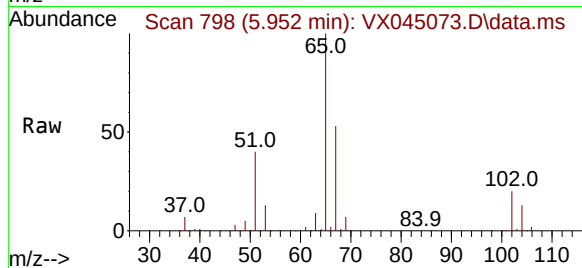
67 52.7 0.0 106.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

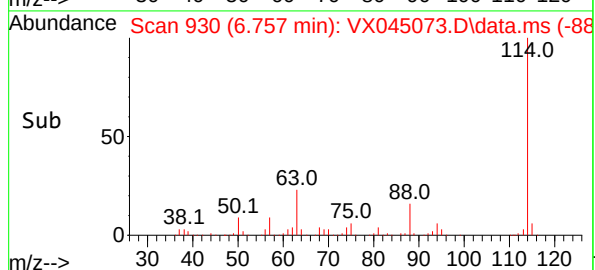
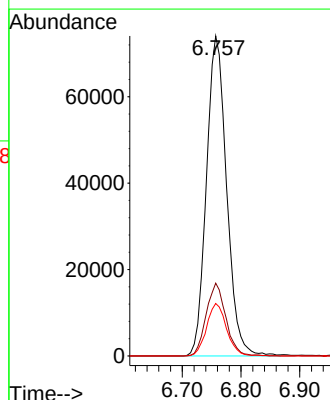
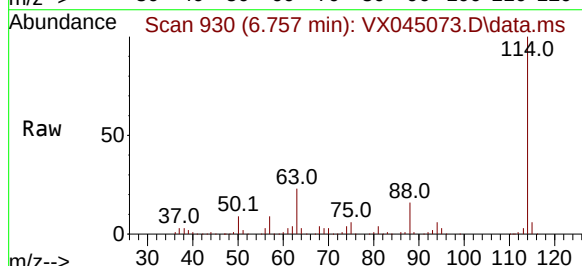
Tgt Ion:114 Resp: 176991

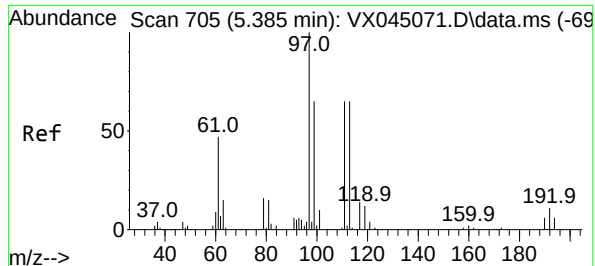
Ion Ratio Lower Upper

114 100

63 22.8 0.0 41.8

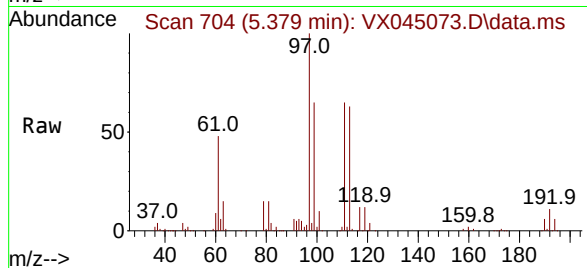
88 16.4 0.0 32.8





#35
Dibromofluoromethane
Concen: 155.359 ug/l
RT: 5.379 min Scan# 705
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

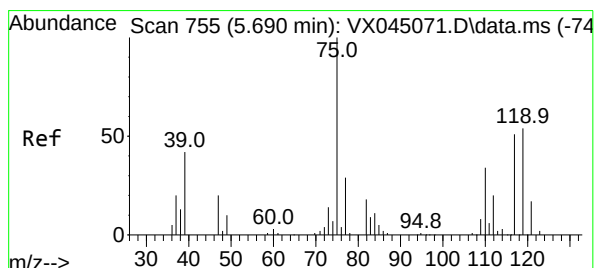
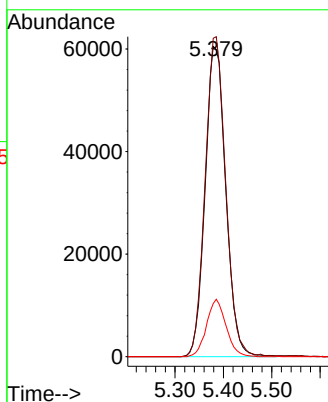
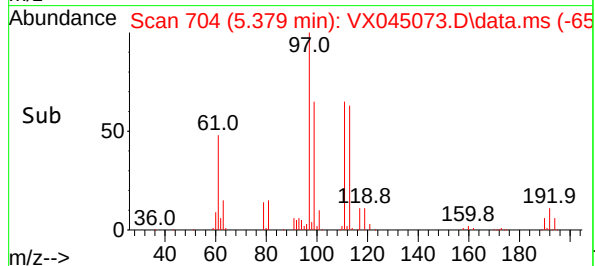
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:113 Resp: 179722
Ion Ratio Lower Upper
113 100
111 102.7 81.8 122.6
192 17.5 14.3 21.5

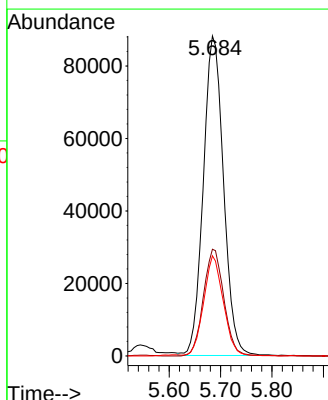
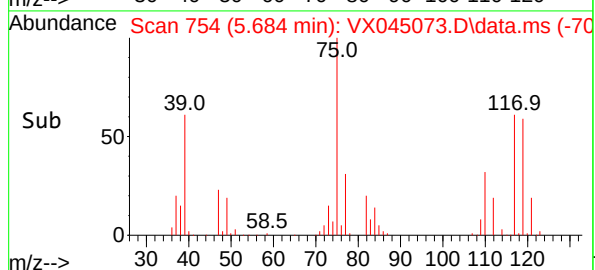
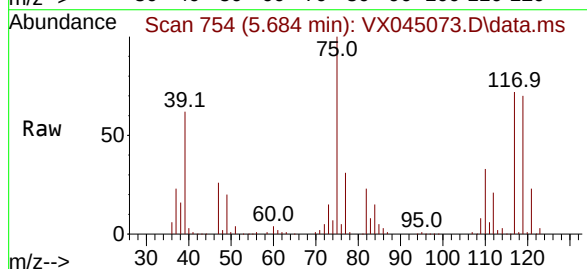
Manual Integrations
APPROVED

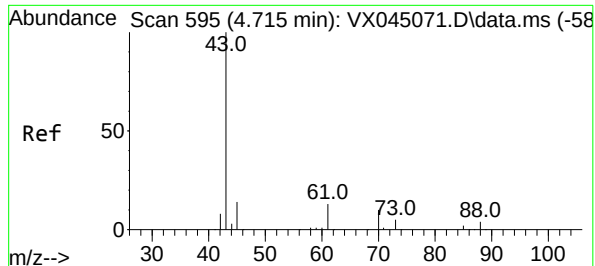
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#36
1,1-Dichloropropene
Concen: 145.112 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 75 Resp: 241405
Ion Ratio Lower Upper
75 100
110 33.7 16.9 50.6
77 30.5 24.5 36.7





#37

Ethyl Acetate

Concen: 167.067 ug/l

RT: 4.721 min Scan# 595

Delta R.T. 0.006 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 316250

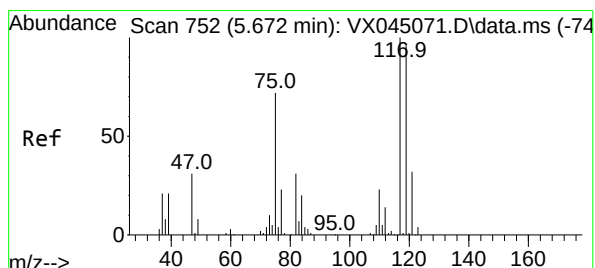
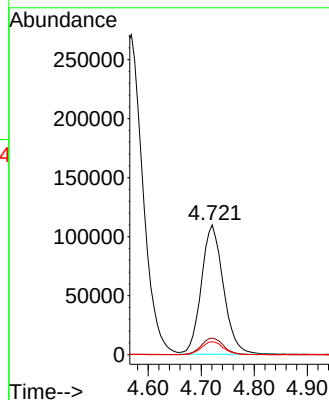
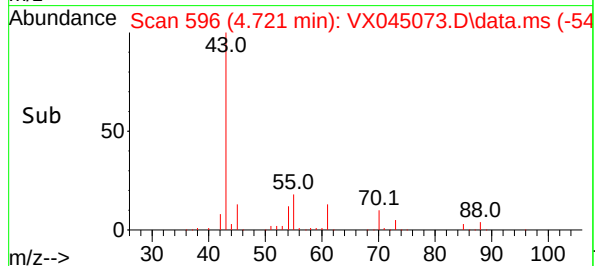
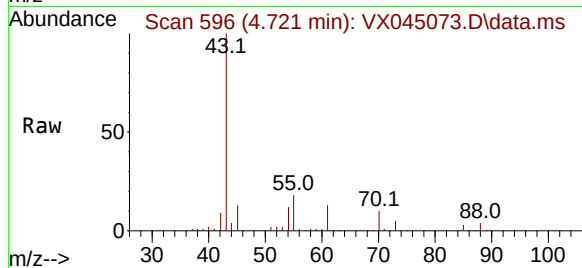
Ion	Ratio	Lower	Upper
43	100		
61	13.2	10.8	16.2
70	10.1	7.7	11.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#38

Carbon Tetrachloride

Concen: 150.363 ug/l

RT: 5.672 min Scan# 752

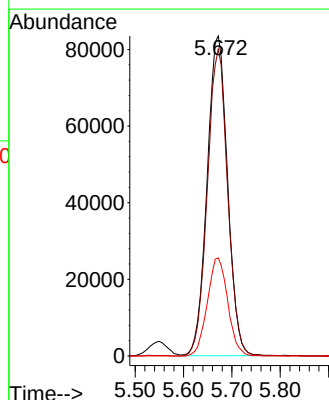
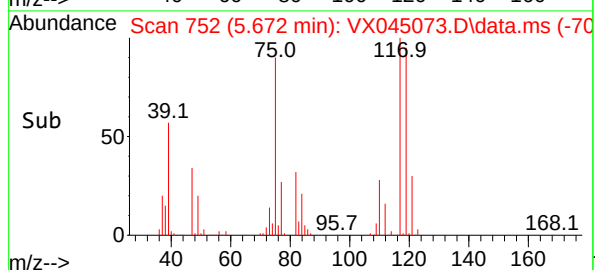
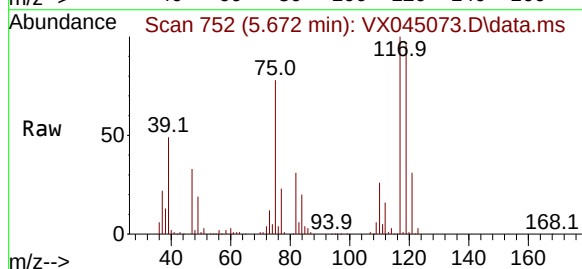
Delta R.T. -0.000 min

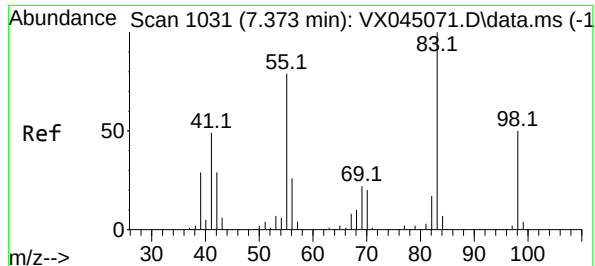
Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Tgt Ion:117 Resp: 245917

Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.7	115.1
121	30.7	25.5	38.3





#39

Methylcyclohexane

Concen: 137.544 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 292210

Ion Ratio Lower Upper

83 100

55 81.7 63.0 94.4

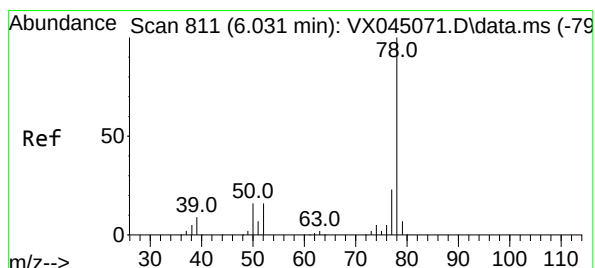
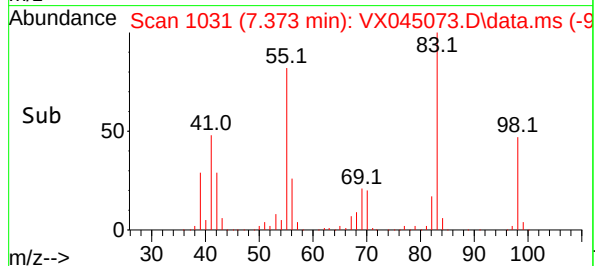
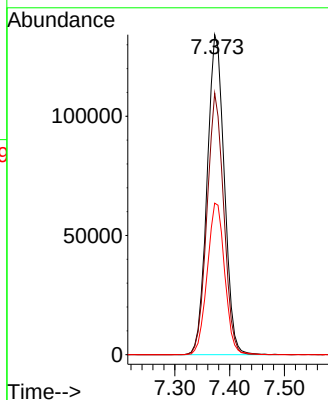
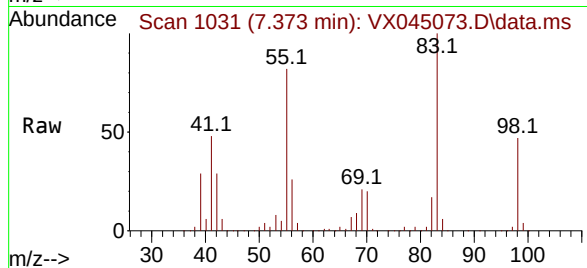
98 47.4 39.7 59.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#40

Benzene

Concen: 145.368 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX045073.D

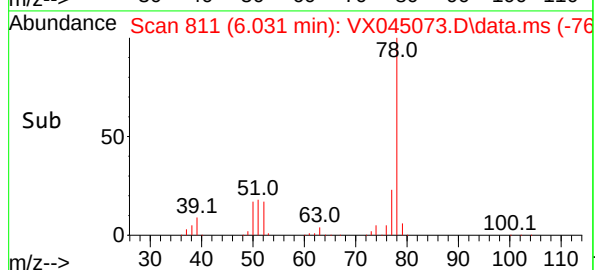
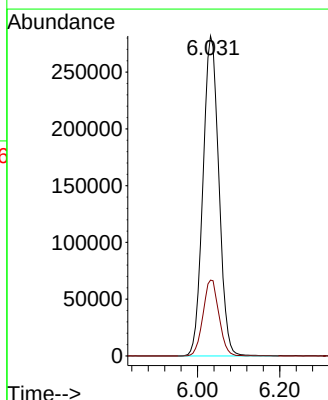
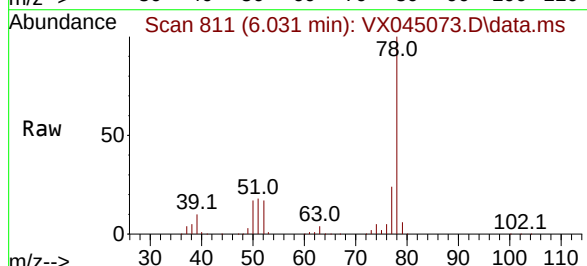
Acq: 28 Feb 2025 03:47

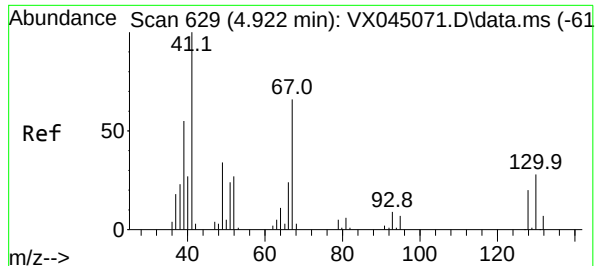
Tgt Ion: 78 Resp: 755854

Ion Ratio Lower Upper

78 100

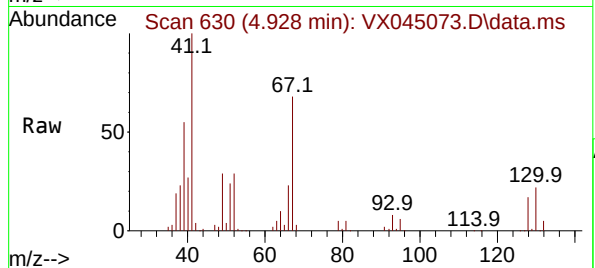
77 23.7 18.8 28.2





#41
Methacrylonitrile
Concen: 173.088 ug/l
RT: 4.928 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

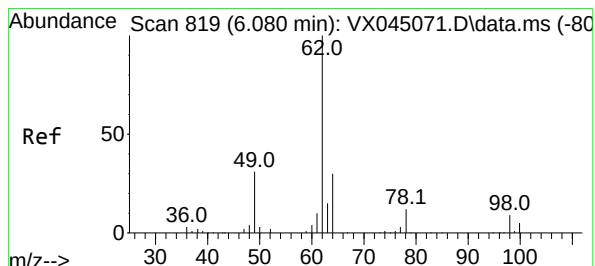
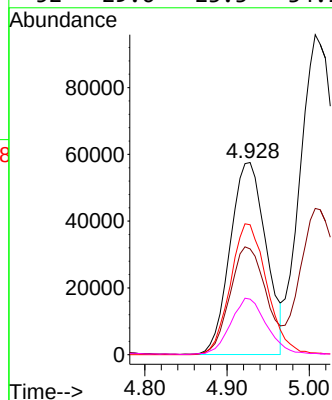
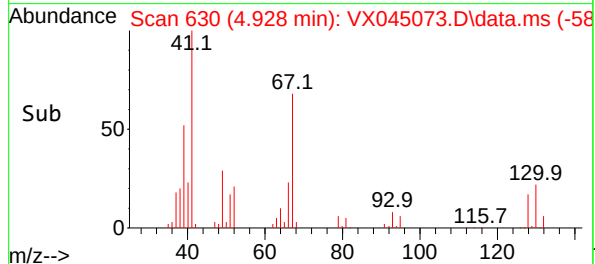
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 41 Resp: 17502
Ion Ratio Lower Upper
41 100
39 55.9 44.6 67.0
67 69.5 53.9 80.9
52 29.6 23.3 34.9

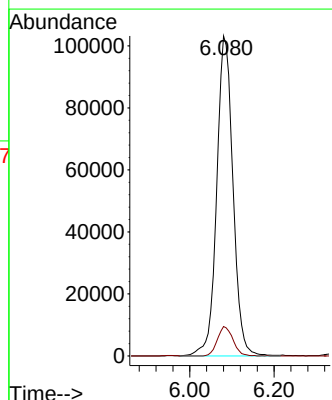
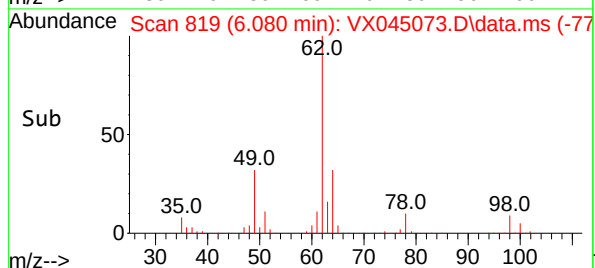
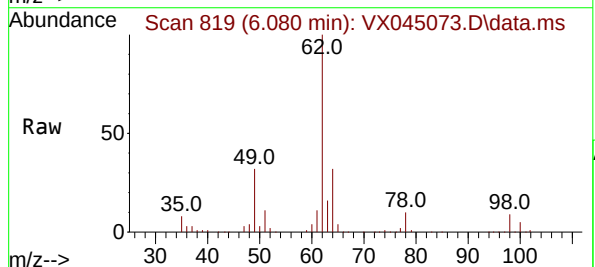
Manual Integrations
APPROVED

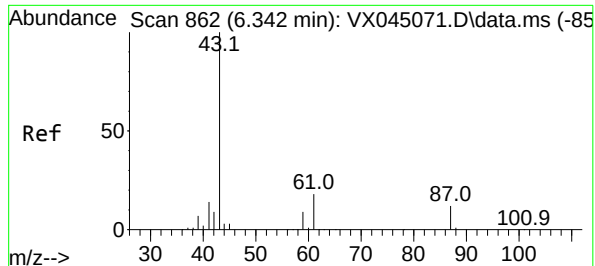
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#42
1,2-Dichloroethane
Concen: 163.872 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 62 Resp: 276129
Ion Ratio Lower Upper
62 100
98 8.8 0.0 18.2





#43

Isopropyl Acetate

Concen: 169.804 ug/l

RT: 6.342 min Scan# 862

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 51164

Ion Ratio Lower Upper

43 100

61 18.7 14.9 22.3

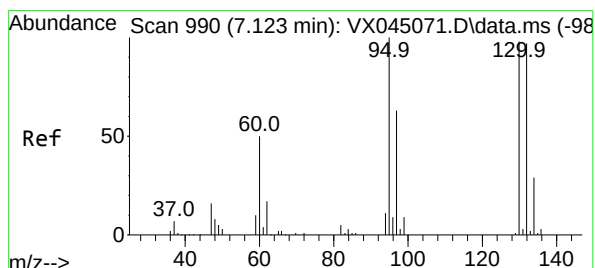
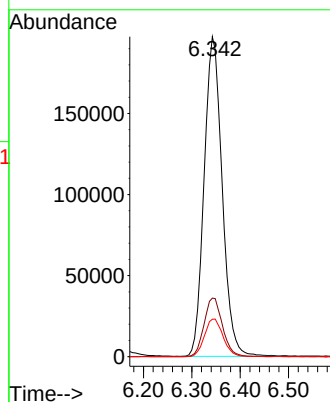
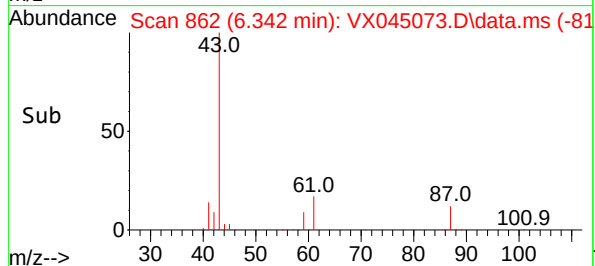
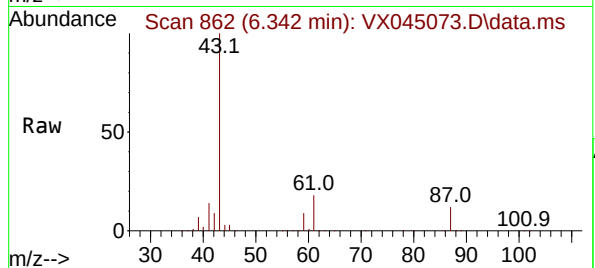
87 12.1 9.4 14.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#44

Trichloroethene

Concen: 150.181 ug/l

RT: 7.123 min Scan# 990

Delta R.T. -0.000 min

Lab File: VX045073.D

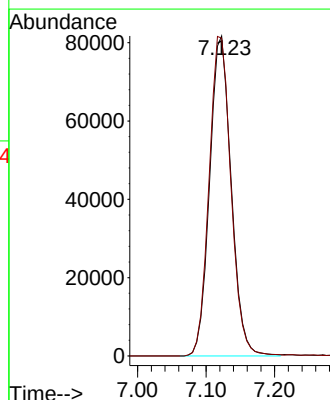
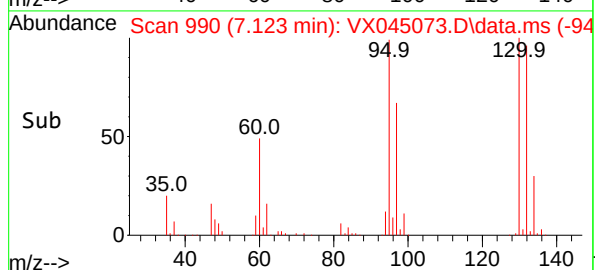
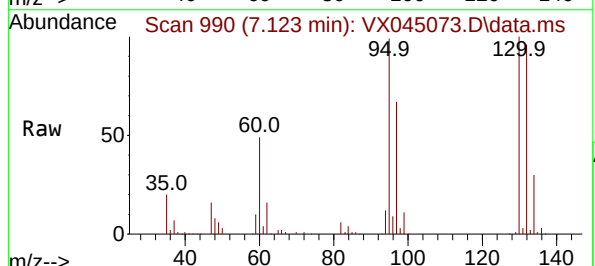
Acq: 28 Feb 2025 03:47

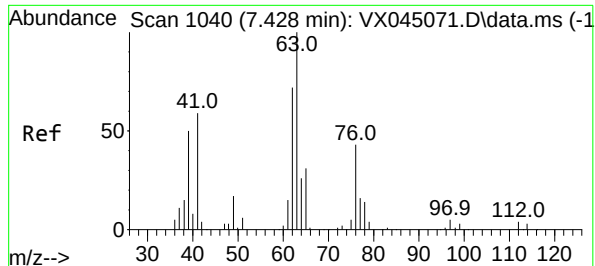
Tgt Ion:130 Resp: 178483

Ion Ratio Lower Upper

130 100

95 99.3 0.0 205.0





#45

1,2-Dichloropropane

Concen: 153.334 ug/l

RT: 7.428 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 63 Resp: 19813

Ion Ratio Lower Upper

63 100

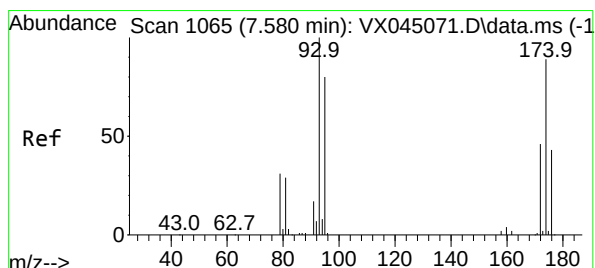
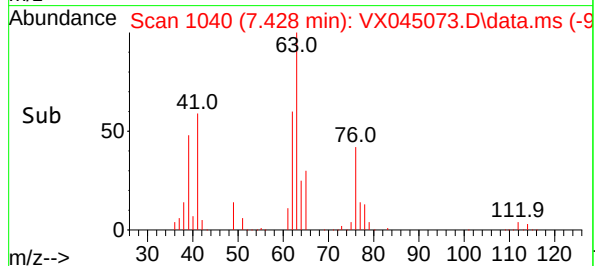
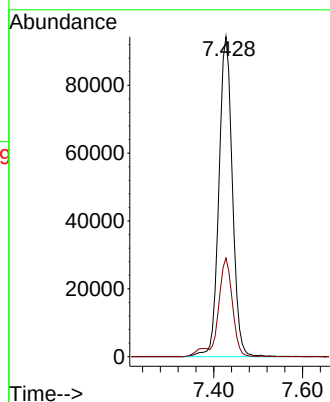
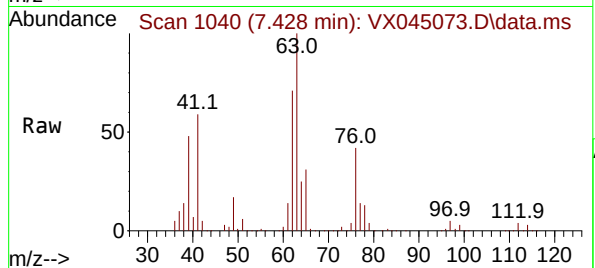
65 30.8 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#46

Dibromomethane

Concen: 157.443 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

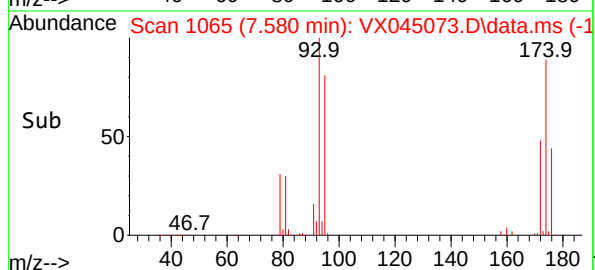
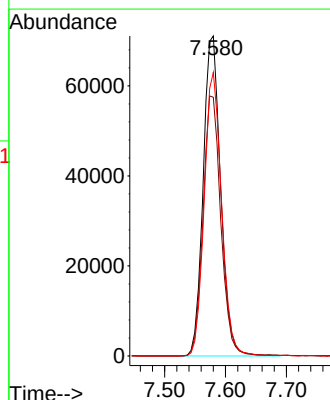
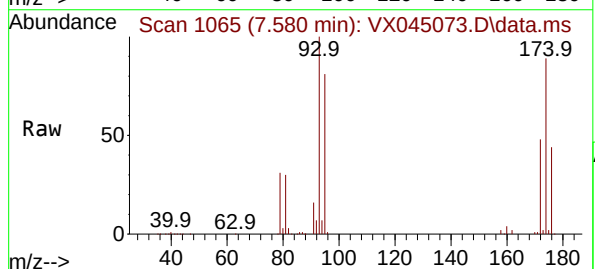
Tgt Ion: 93 Resp: 142119

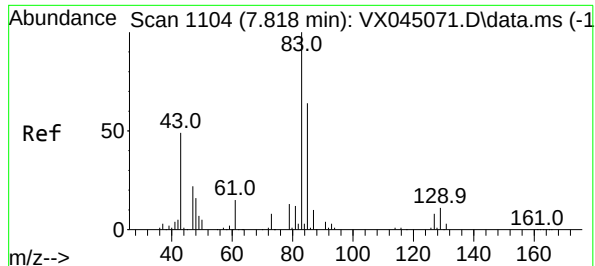
Ion Ratio Lower Upper

93 100

95 82.6 65.8 98.8

174 88.2 72.2 108.2





#47

Bromodichloromethane

Concen: 160.492 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 28025

Ion Ratio Lower Upper

83 100

85 64.9 51.1 76.7

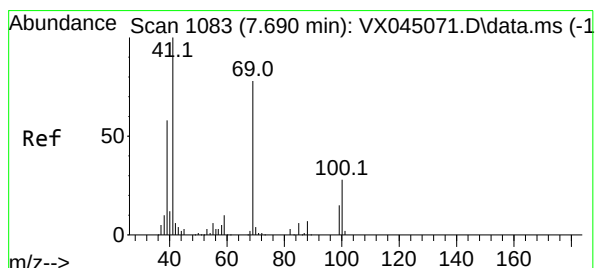
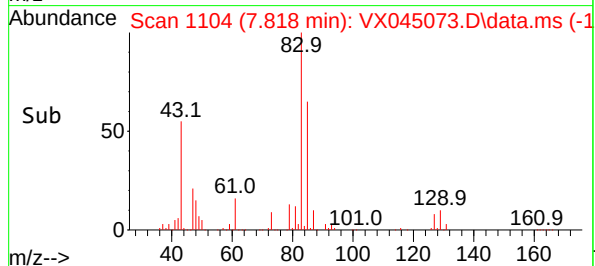
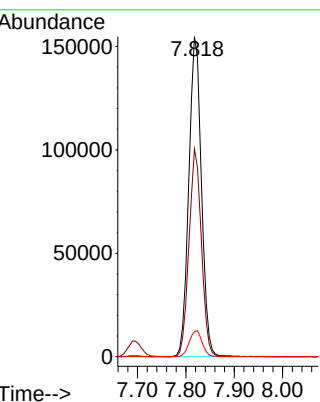
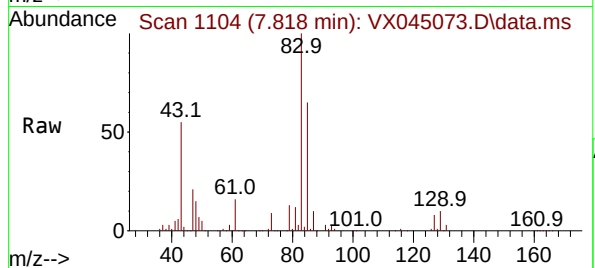
127 7.8 6.4 9.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#48

Methyl methacrylate

Concen: 176.370 ug/l

RT: 7.696 min Scan# 1084

Delta R.T. 0.006 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

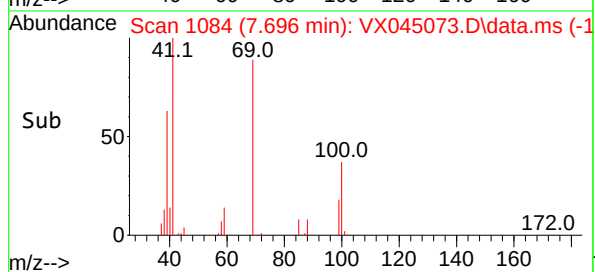
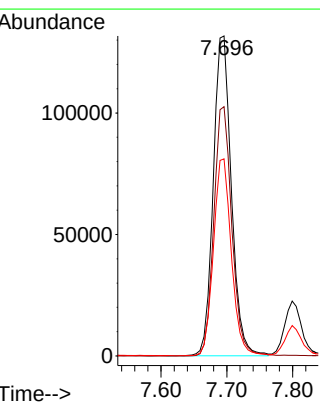
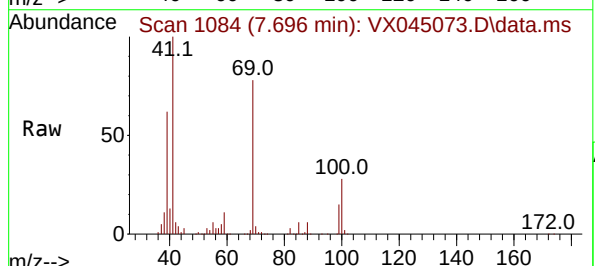
Tgt Ion: 41 Resp: 252275

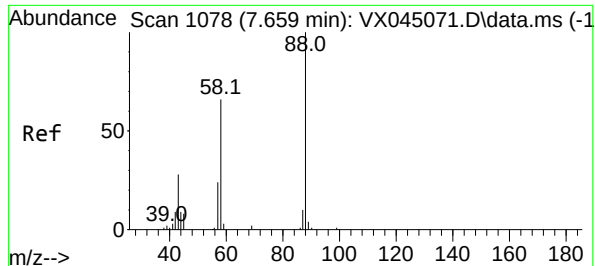
Ion Ratio Lower Upper

41 100

69 78.1 63.0 94.6

39 61.1 47.5 71.3





#49

1,4-Dioxane

Concen: 3166.423 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. 0.006 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 88 Resp: 96268

Ion Ratio Lower Upper

88 100

43 37.0 28.7 43.1

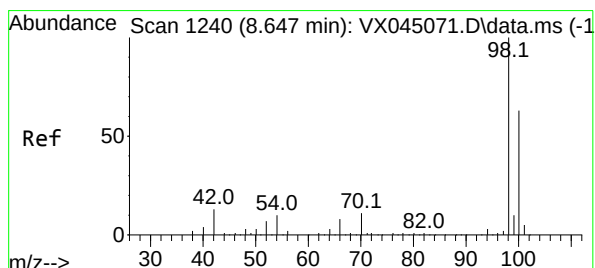
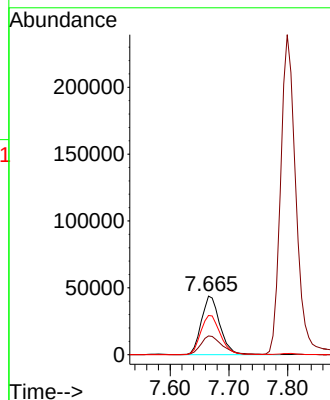
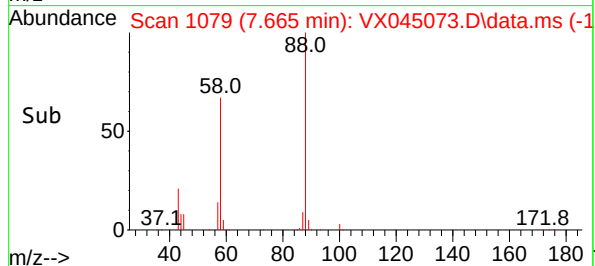
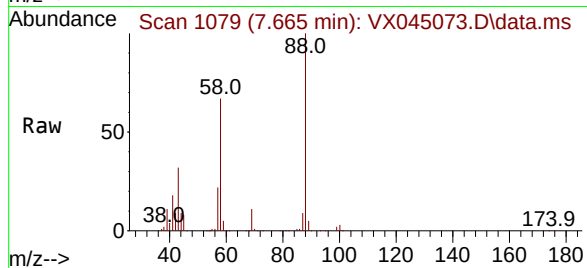
58 70.8 55.8 83.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#50

Toluene-d8

Concen: 147.538 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX045073.D

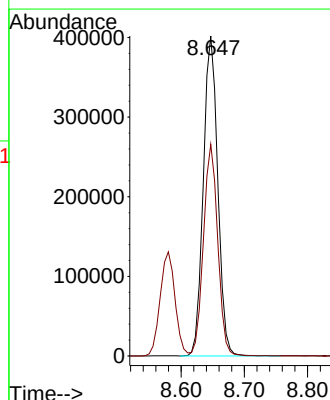
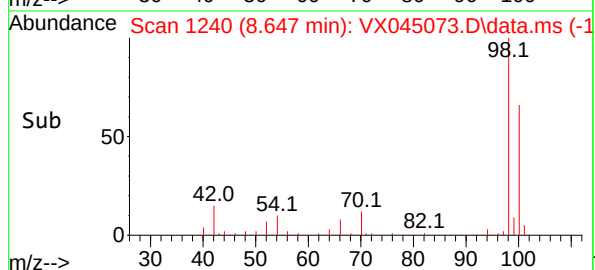
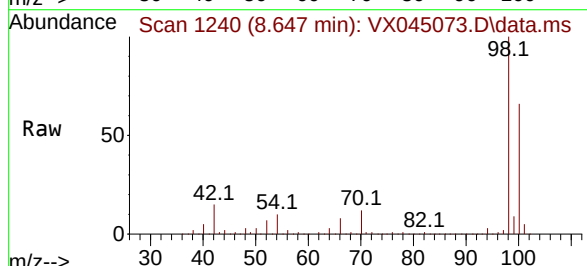
Acq: 28 Feb 2025 03:47

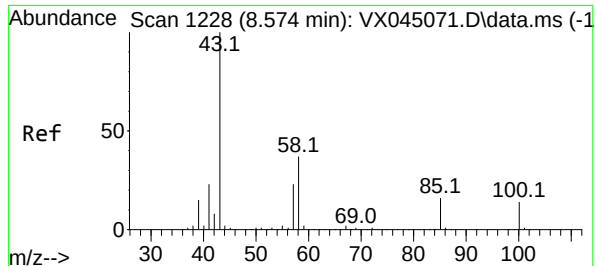
Tgt Ion: 98 Resp: 638979

Ion Ratio Lower Upper

98 100

100 65.4 52.0 78.0





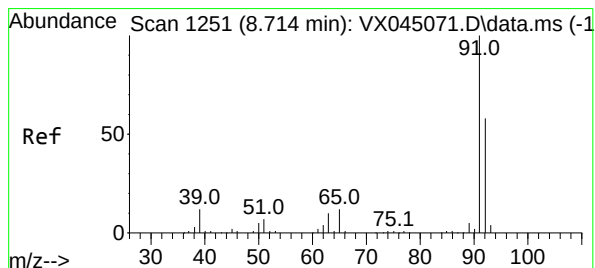
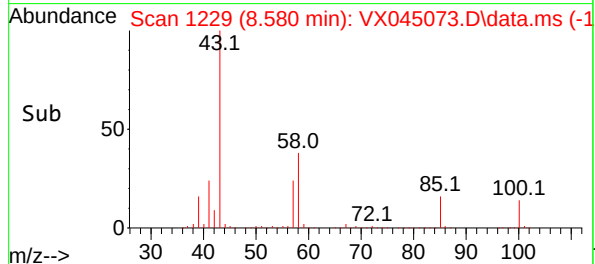
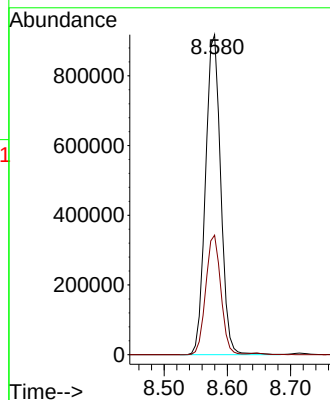
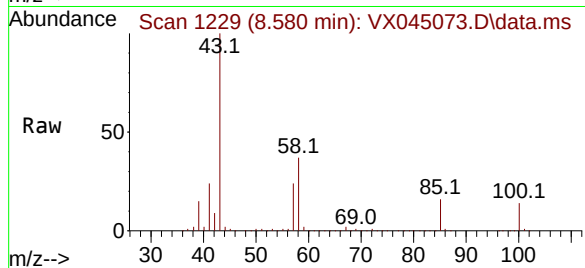
#51
4-Methyl-2-Pentanone
Concen: 832.051 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 153615
Ion Ratio Lower Upper
43 100
58 37.1 29.2 43.8

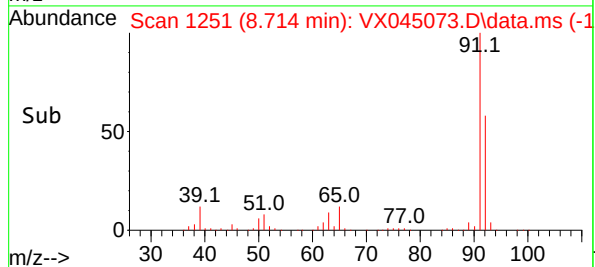
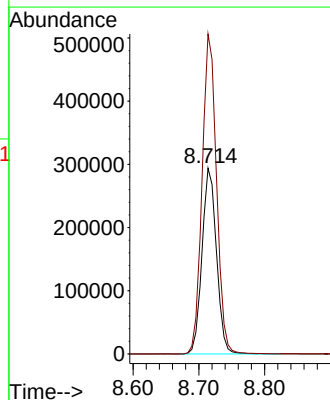
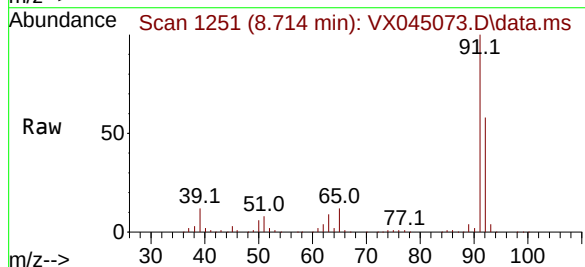
Manual Integrations
APPROVED

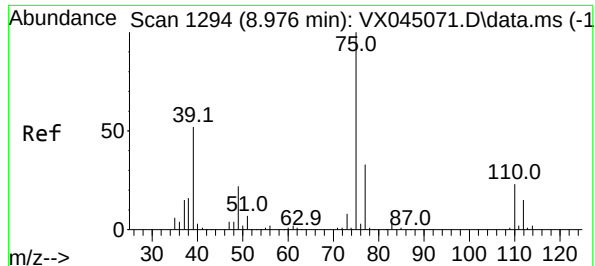
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#52
Toluene
Concen: 145.321 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 92 Resp: 448664
Ion Ratio Lower Upper
92 100
91 172.3 138.9 208.3





#53

t-1,3-Dichloropropene

Concen: 154.373 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 75 Resp: 26644

Ion Ratio Lower Upper

75 100

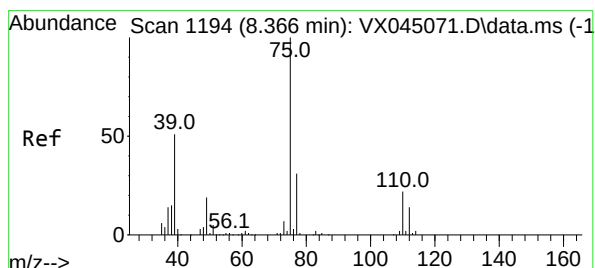
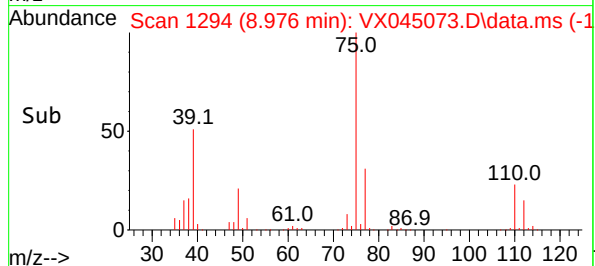
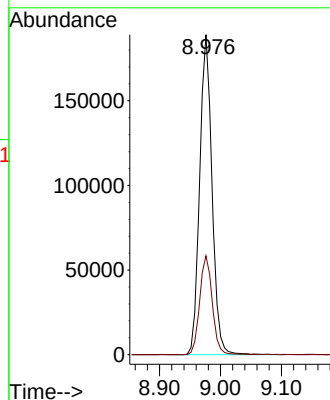
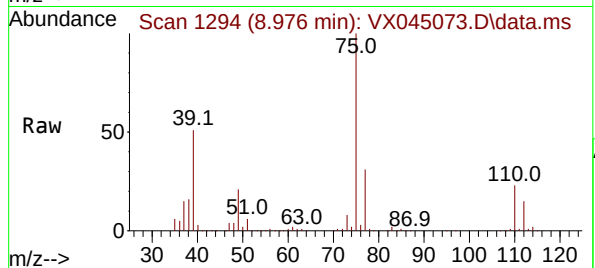
77 30.9 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#54

cis-1,3-Dichloropropene

Concen: 152.117 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

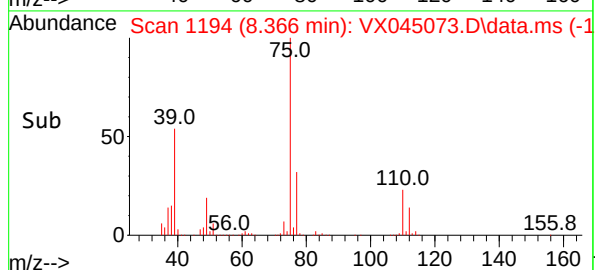
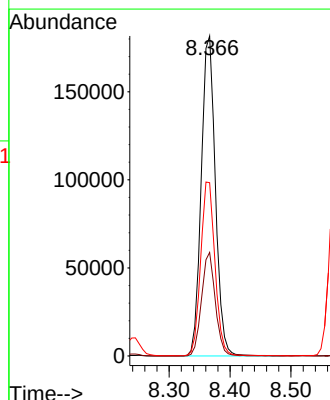
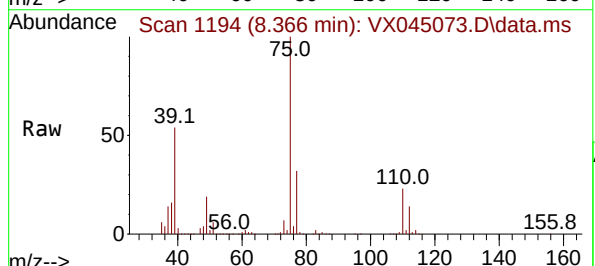
Tgt Ion: 75 Resp: 293521

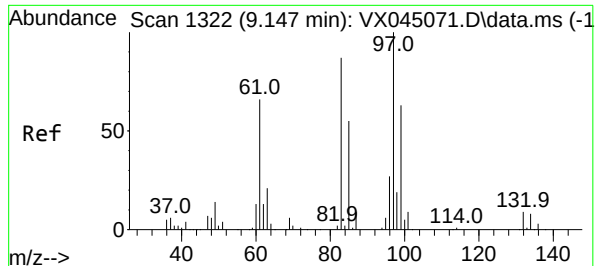
Ion Ratio Lower Upper

75 100

77 32.3 24.7 37.1

39 54.0 40.7 61.1





#55

1,1,2-Trichloroethane

Concen: 149.046 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 97 Resp: 17821

Ion Ratio Lower Upper

97 100

83 87.8 69.4 104.2

85 57.8 44.1 66.1

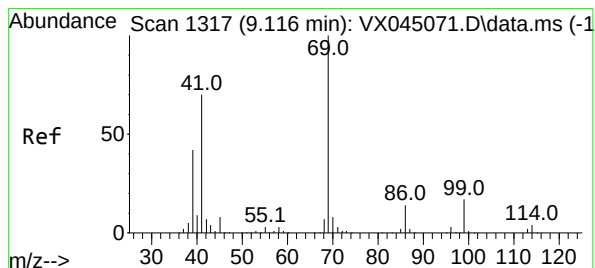
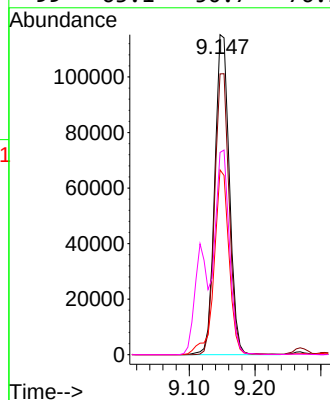
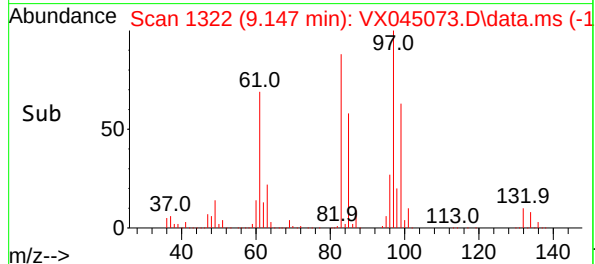
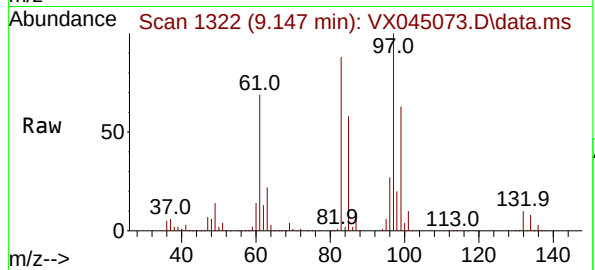
99 63.1 50.7 76.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#56

Ethyl methacrylate

Concen: 162.631 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

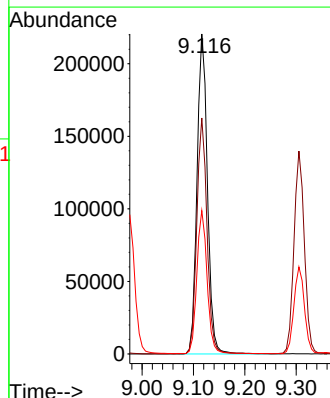
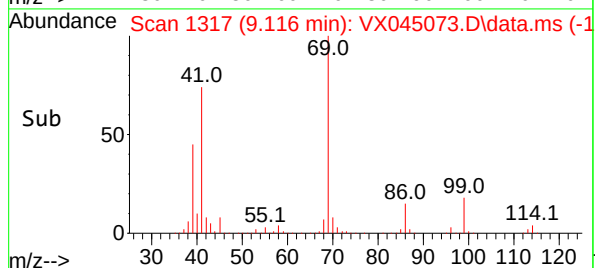
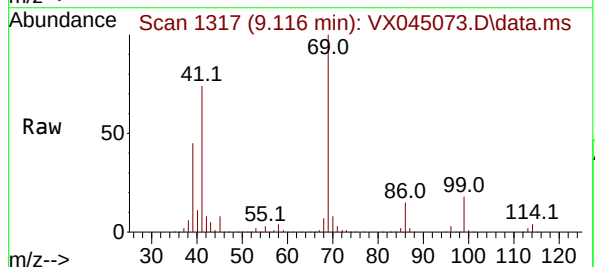
Tgt Ion: 69 Resp: 310992

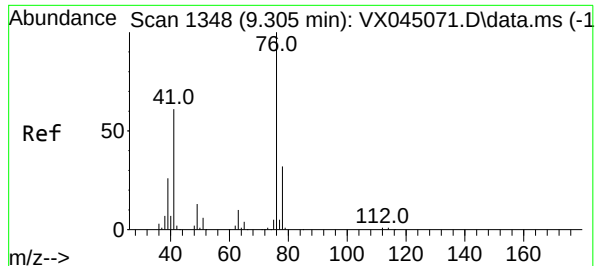
Ion Ratio Lower Upper

69 100

41 72.6 57.0 85.4

39 44.2 34.2 51.4





#57

1,3-Dichloropropane

Concen: 149.699 ug/l

RT: 9.305 min Scan# 1119

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 76 Resp: 312190

Ion Ratio Lower Upper

76 100

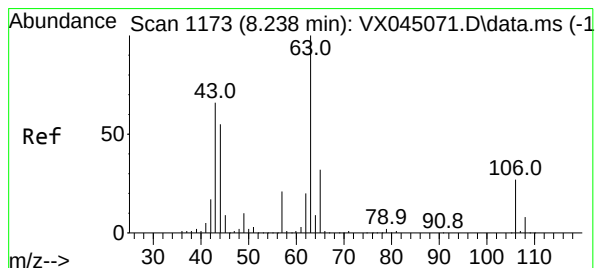
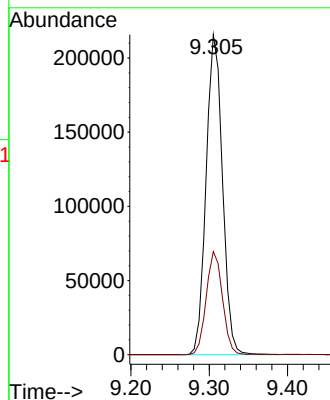
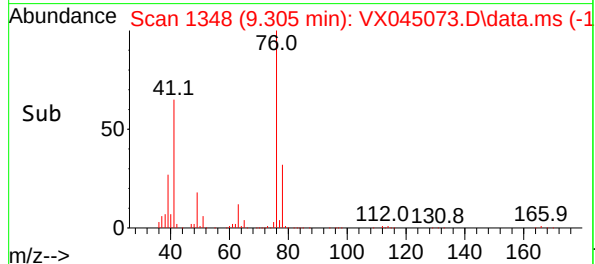
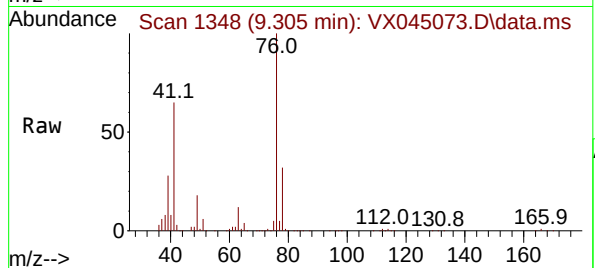
78 32.0 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#58

2-Chloroethyl Vinyl ether

Concen: 764.019 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX045073.D

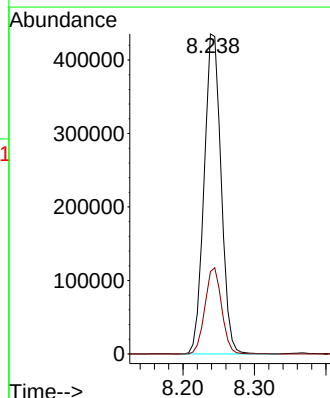
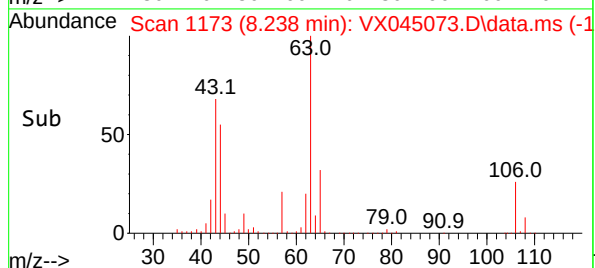
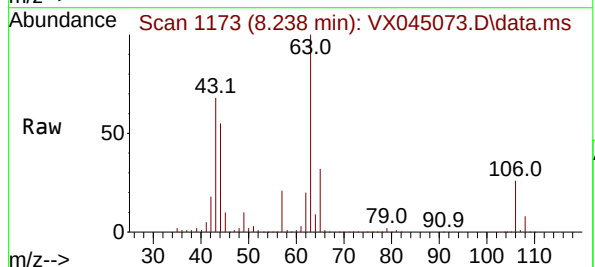
Acq: 28 Feb 2025 03:47

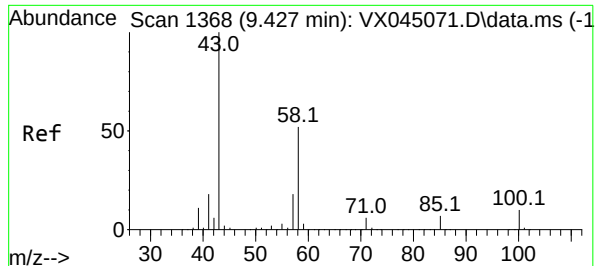
Tgt Ion: 63 Resp: 717328

Ion Ratio Lower Upper

63 100

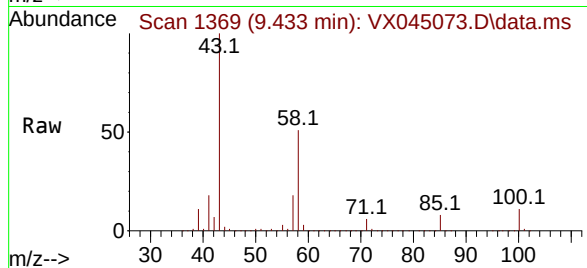
106 26.5 21.5 32.3





#59
2-Hexanone
Concen: 868.492 ug/l
RT: 9.433 min Scan# 1369
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

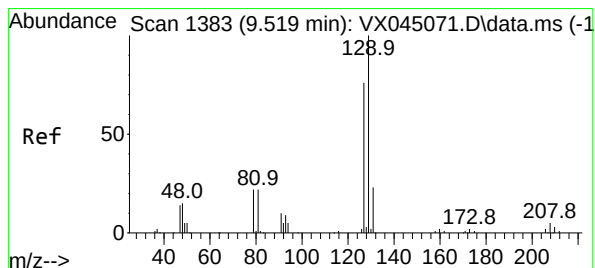
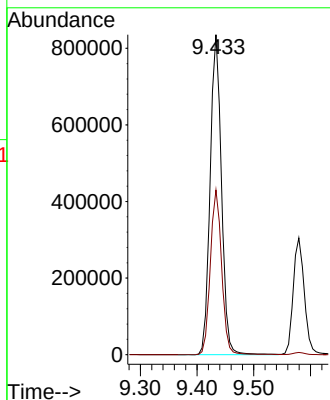
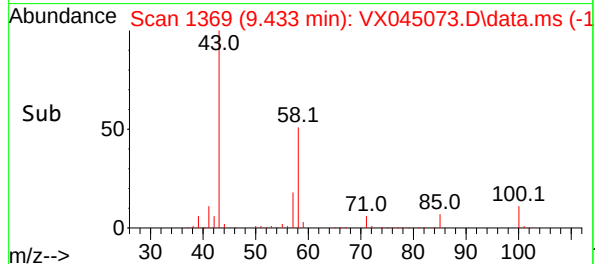
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion: 43 Resp: 115665
Ion Ratio Lower Upper
43 100
58 51.6 25.9 77.6

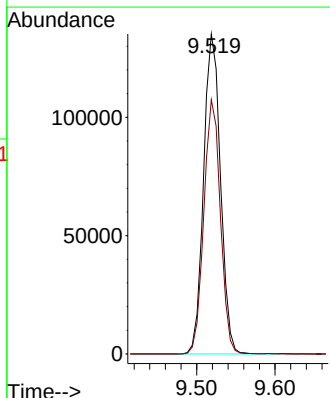
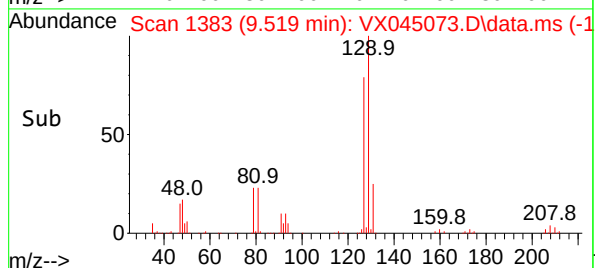
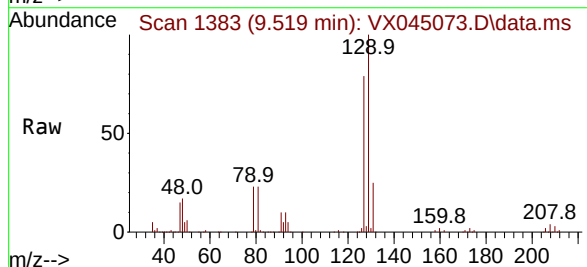
Manual Integrations
APPROVED

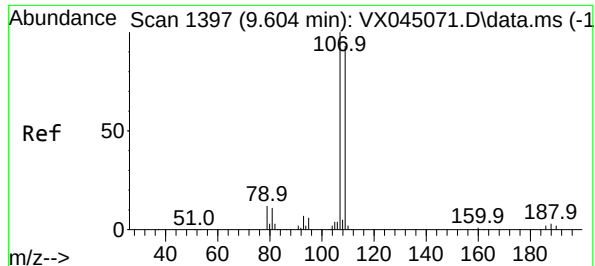
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#60
Dibromochloromethane
Concen: 158.276 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:129 Resp: 201906
Ion Ratio Lower Upper
129 100
127 77.9 38.5 115.5





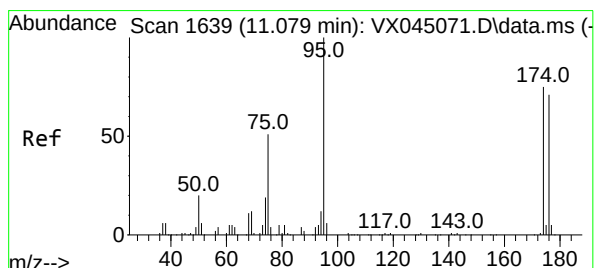
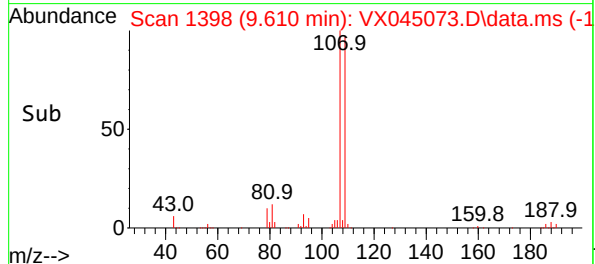
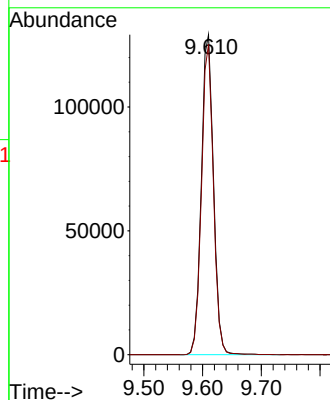
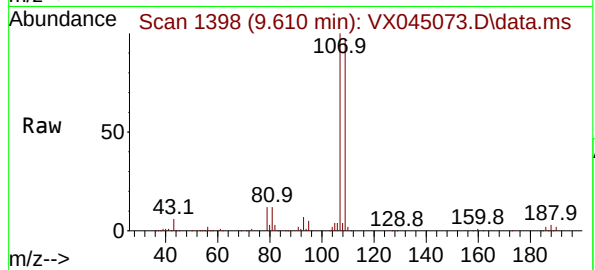
#61
1,2-Dibromoethane
Concen: 154.074 ug/l
RT: 9.610 min Scan# 1397
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:107 Resp: 185828
Ion Ratio Lower Upper
107 100
109 95.2 76.1 114.1

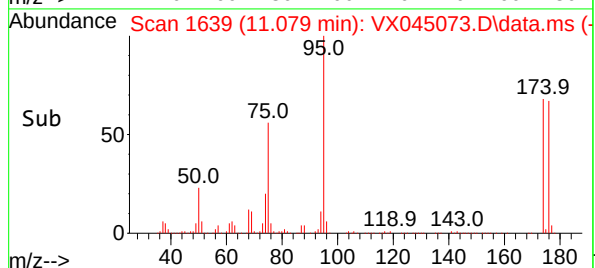
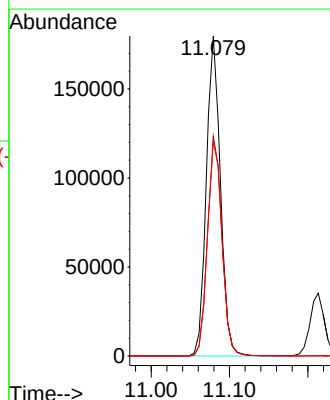
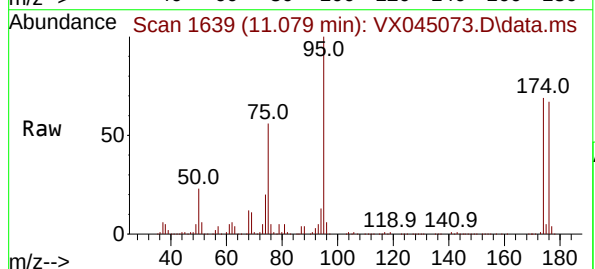
Manual Integrations
APPROVED

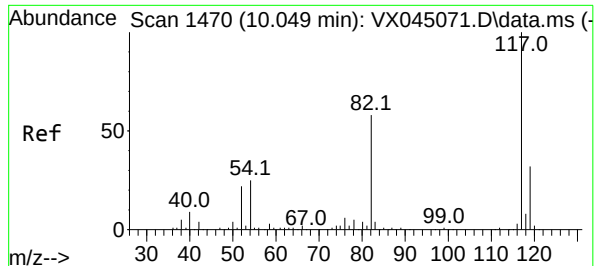
Reviewed By :John Carbone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#62
4-Bromofluorobenzene
Concen: 154.420 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 95 Resp: 223346
Ion Ratio Lower Upper
95 100
174 70.4 0.0 148.2
176 69.4 0.0 141.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.006 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:117 Resp: 15054

Ion Ratio Lower Upper

117 100

82 56.4 46.3 69.5

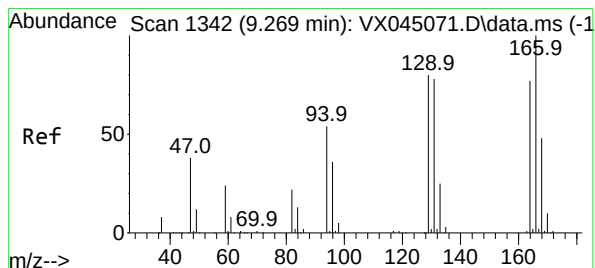
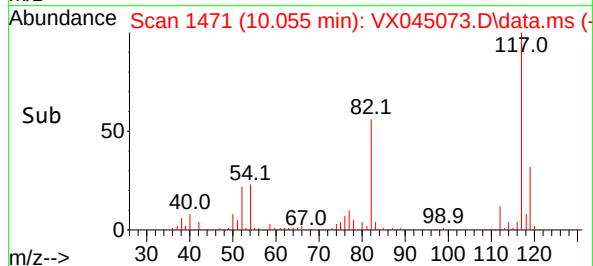
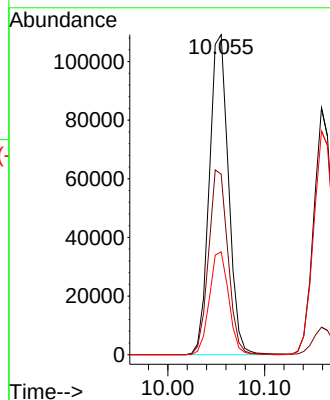
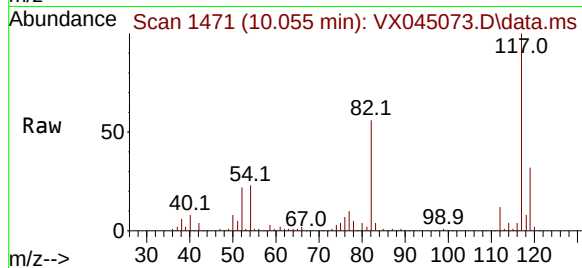
119 32.1 25.7 38.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#64

Tetrachloroethene

Concen: 145.906 ug/l

RT: 9.269 min Scan# 1342

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Tgt Ion:164 Resp: 139536

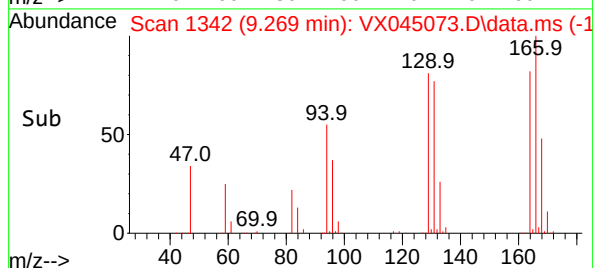
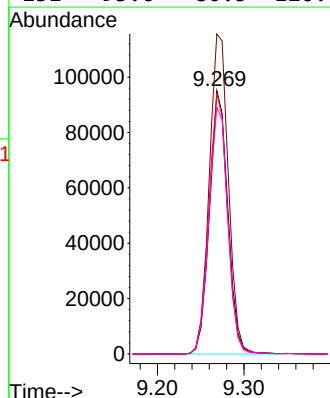
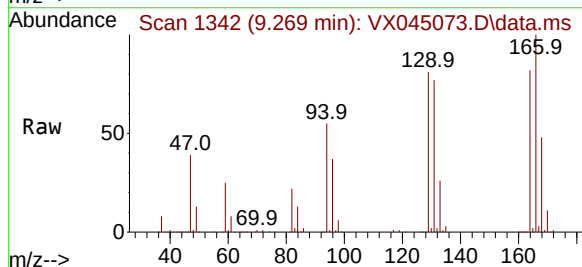
Ion Ratio Lower Upper

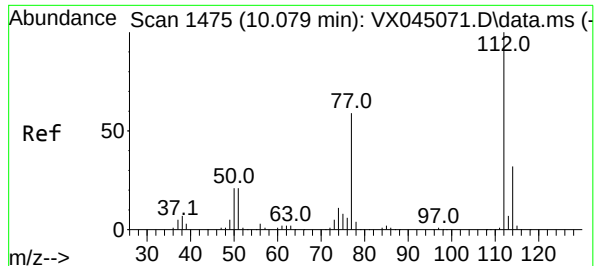
164 100

166 121.6 103.6 155.4

129 99.0 82.7 124.1

131 93.6 80.5 120.7





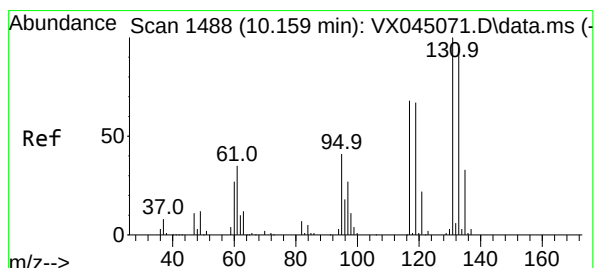
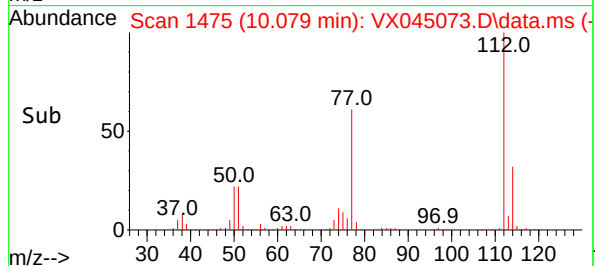
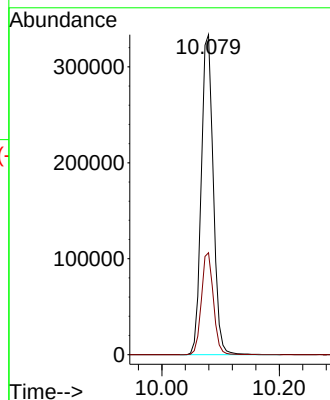
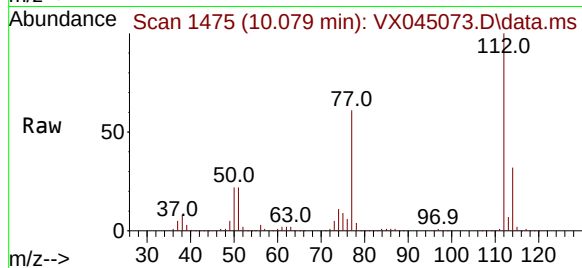
#65
Chlorobenzene
Concen: 146.096 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion:112 Resp: 47211
Ion Ratio Lower Upper
112 100
114 31.9 26.0 39.0

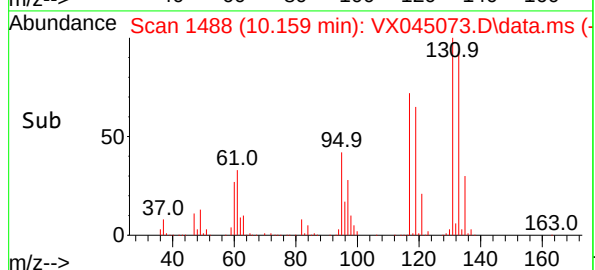
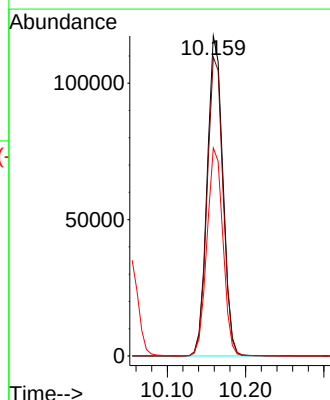
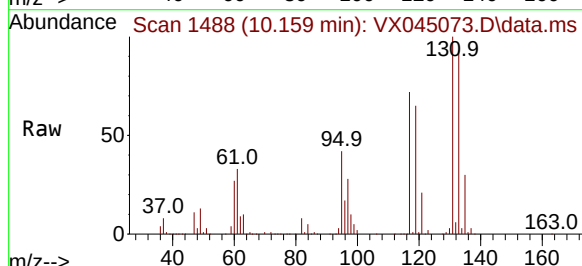
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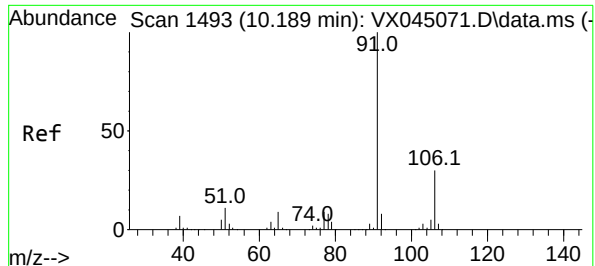
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 156.845 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:131 Resp: 163370
Ion Ratio Lower Upper
131 100
133 94.2 48.6 145.9
119 66.0 33.9 101.7





#67

Ethyl Benzene

Concen: 149.191 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 91 Resp: 852579

Ion Ratio Lower Upper

91 100

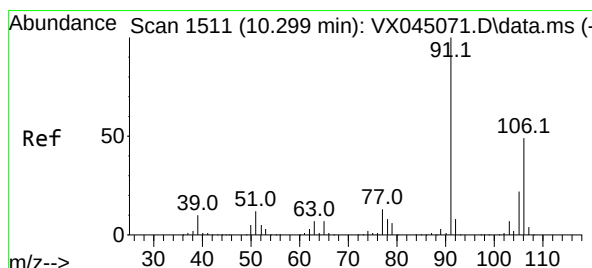
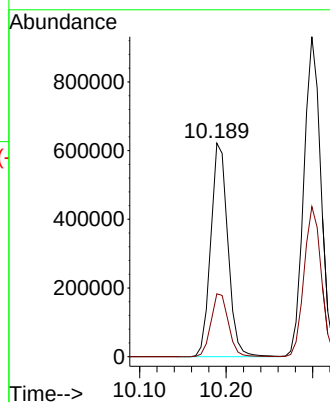
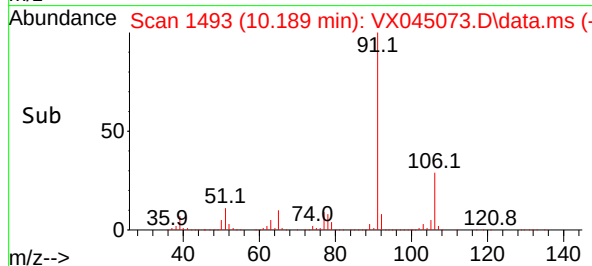
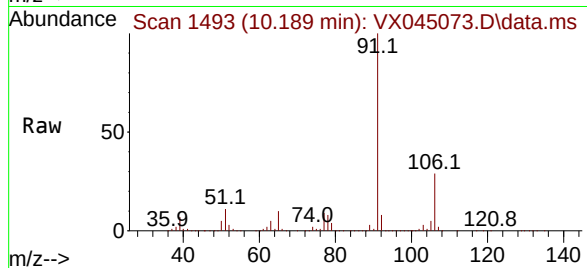
106 29.5 23.9 35.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#68

m/p-Xylenes

Concen: 288.655 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX045073.D

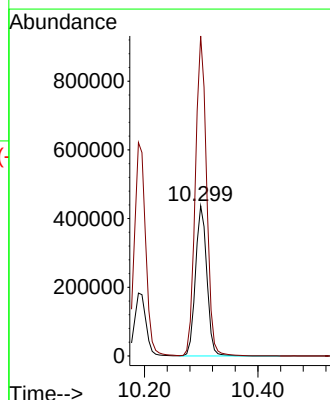
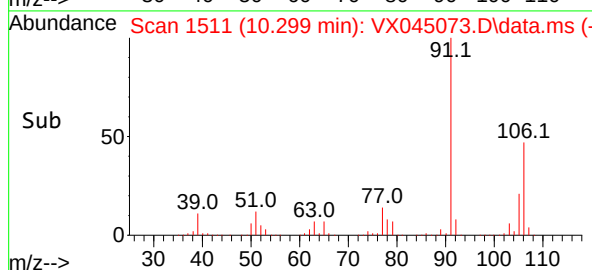
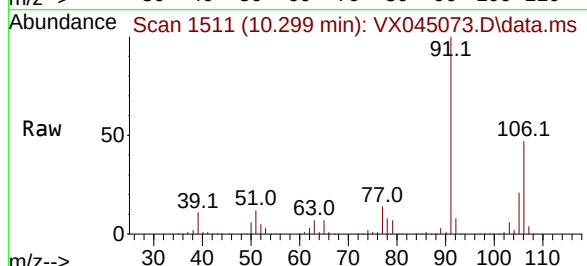
Acq: 28 Feb 2025 03:47

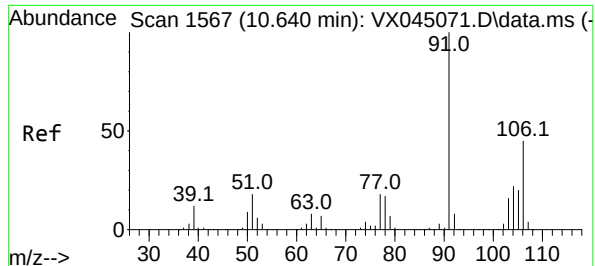
Tgt Ion:106 Resp: 607523

Ion Ratio Lower Upper

106 100

91 211.2 165.4 248.0





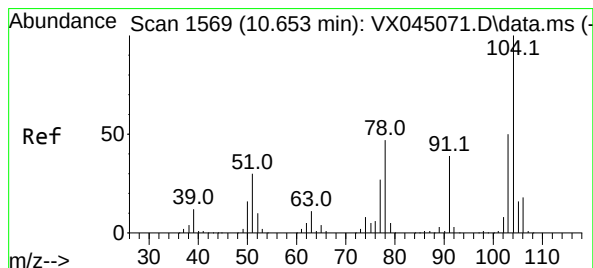
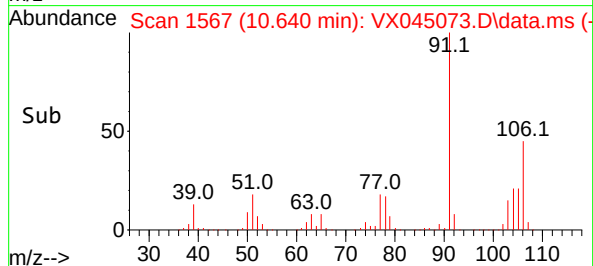
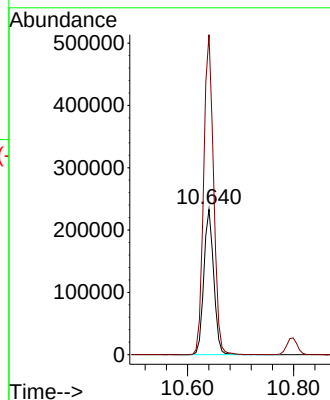
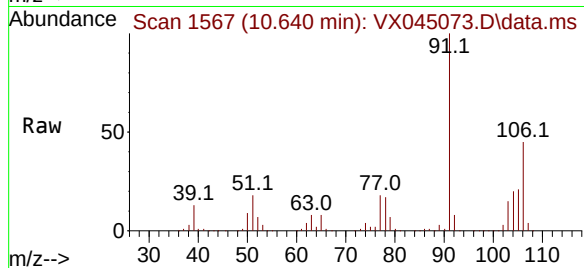
#69
o-Xylene
Concen: 143.259 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 302495
Ion Ratio Lower Upper
106 100
91 221.3 109.9 329.6

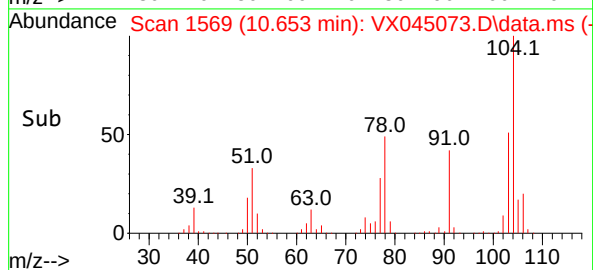
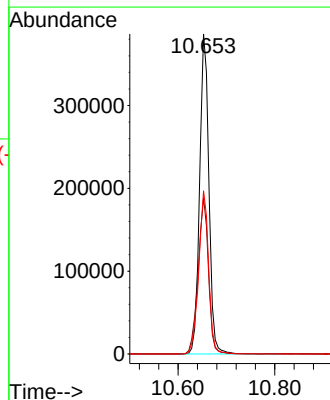
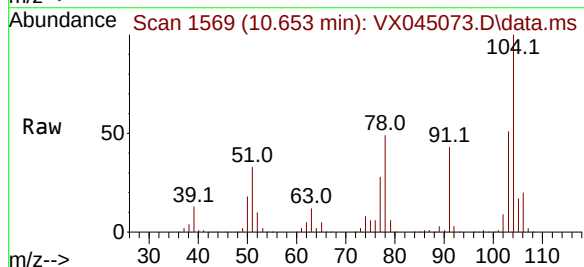
Manual Integrations
APPROVED

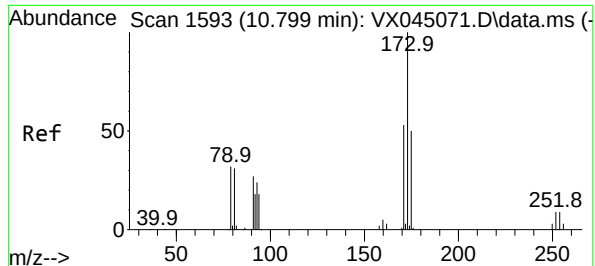
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#70
Styrene
Concen: 150.979 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

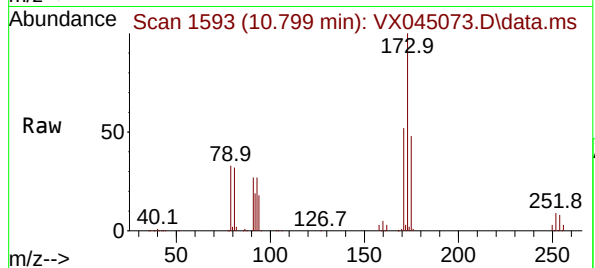
Tgt Ion:104 Resp: 512379
Ion Ratio Lower Upper
104 100
78 54.4 42.2 63.4
103 54.8 43.8 65.8





#71
Bromoform
Concen: 174.808 ug/l
RT: 10.799 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

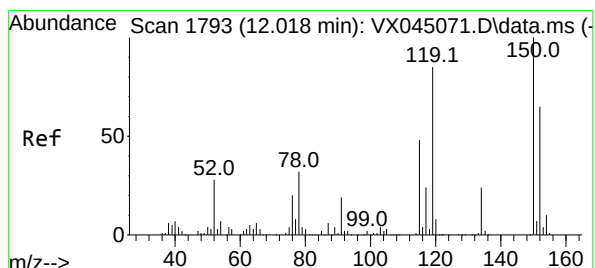
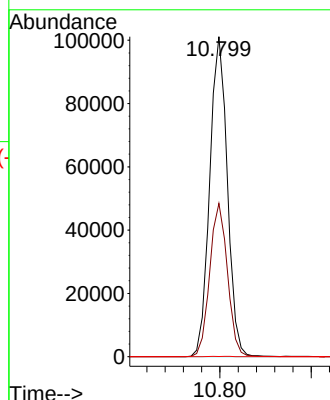
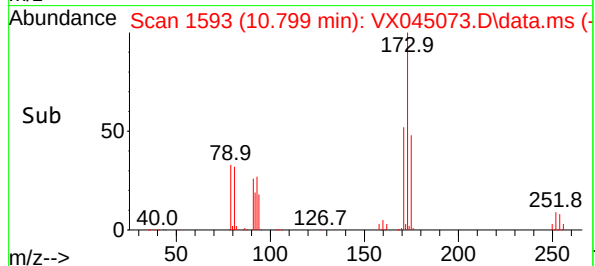
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:173 Resp: 135388
Ion Ratio Lower Upper
173 100
175 48.3 24.6 73.6
254 0.1 0.0 0.0

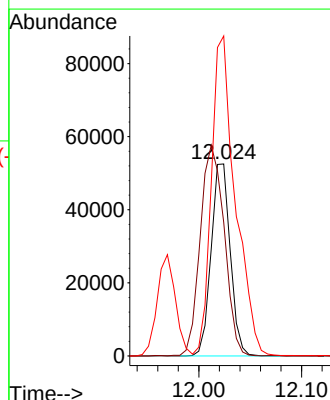
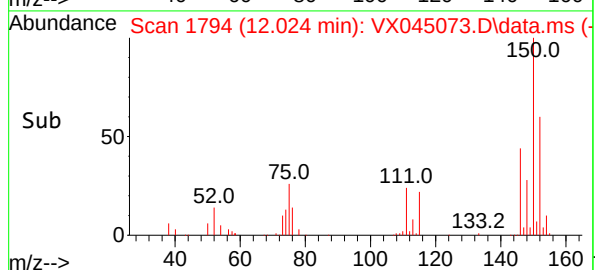
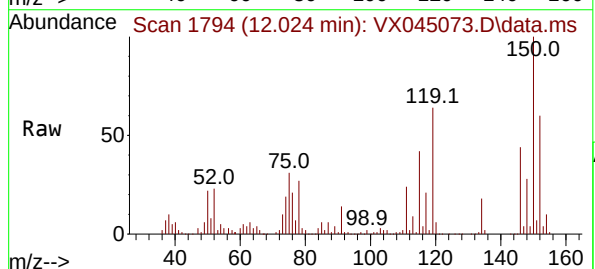
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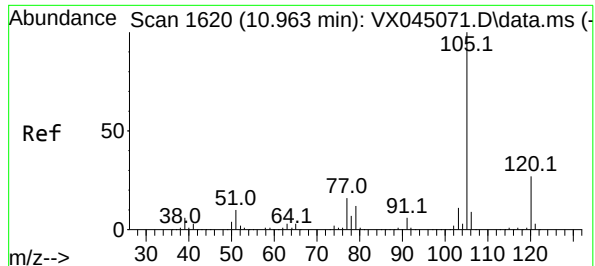
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

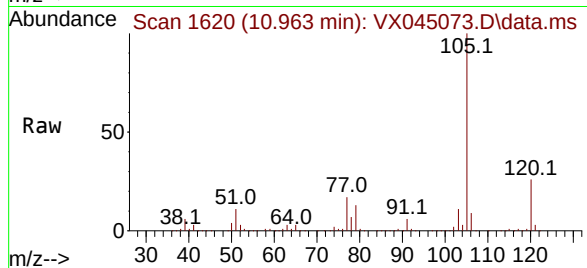
Tgt Ion:152 Resp: 67685
Ion Ratio Lower Upper
152 100
115 138.4 44.2 132.6#
150 208.8 0.0 349.0





#73
Isopropylbenzene
Concen: 142.719 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

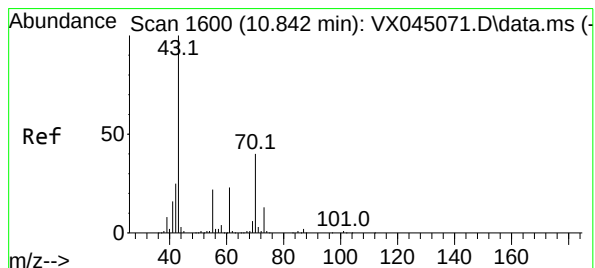
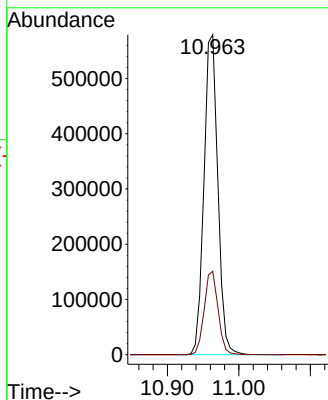
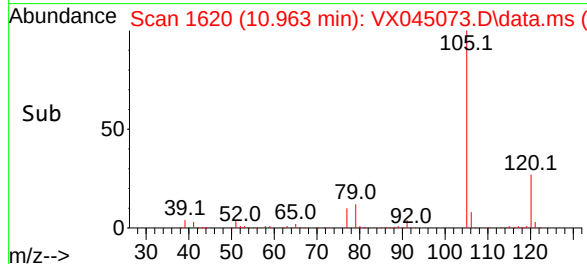
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:105 Resp: 780700
Ion Ratio Lower Upper
105 100
120 26.0 13.2 39.5

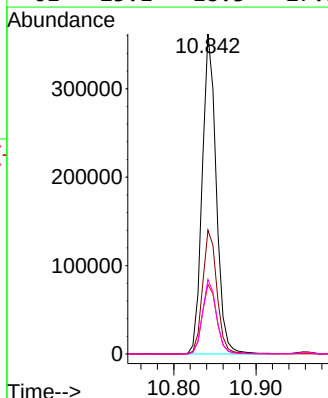
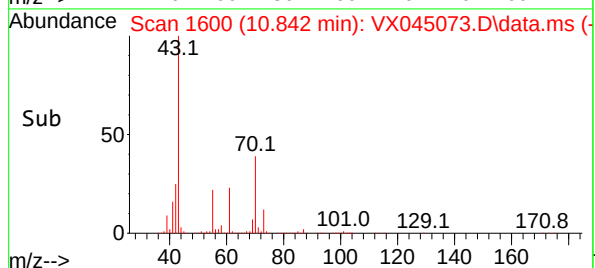
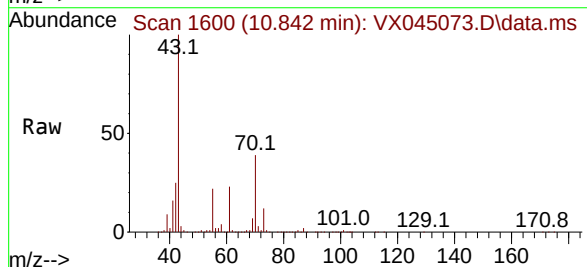
Manual Integrations
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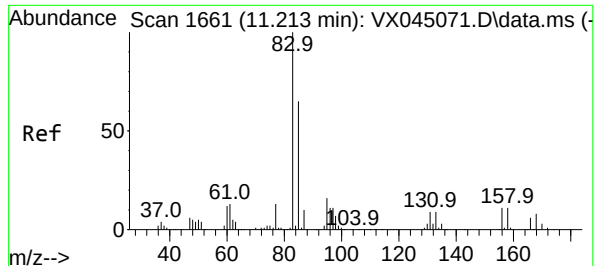
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#74
N-ethyl acetate
Concen: 173.042 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 43 Resp: 429686
Ion Ratio Lower Upper
43 100
70 39.6 31.8 47.6
55 22.5 18.3 27.5
61 23.1 18.3 27.5





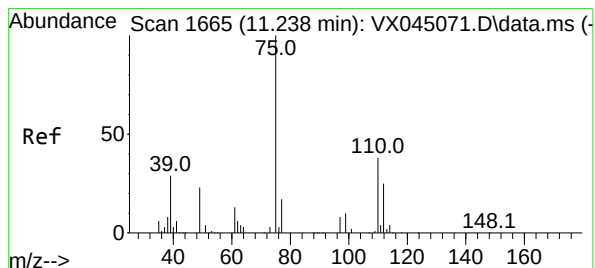
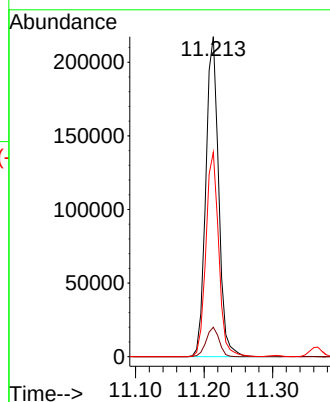
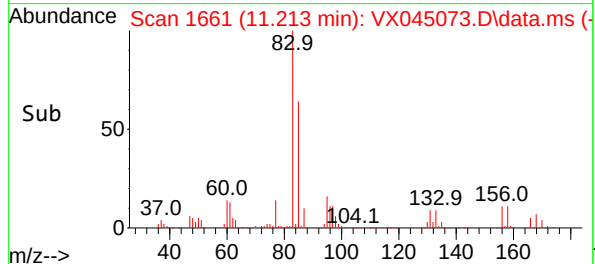
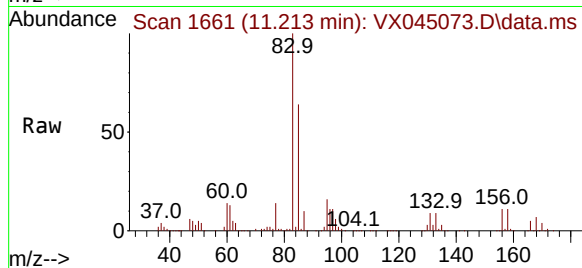
#75
1,1,2,2-Tetrachloroethane
Concen: 150.458 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion: 83 Resp: 283558
Ion Ratio Lower Upper
83 100
131 9.3 4.5 13.4
85 63.8 31.7 95.1

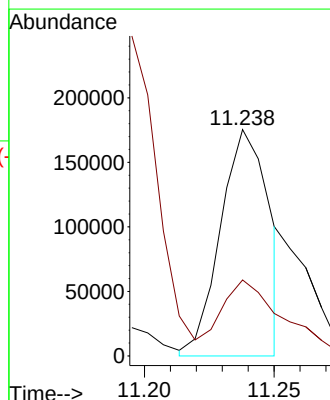
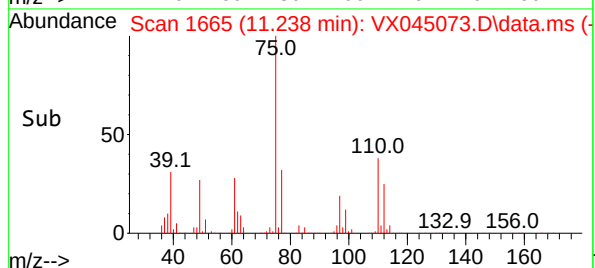
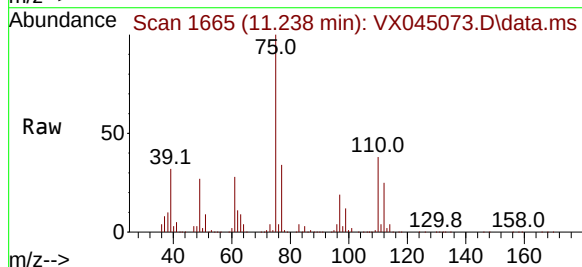
Manual Integrations
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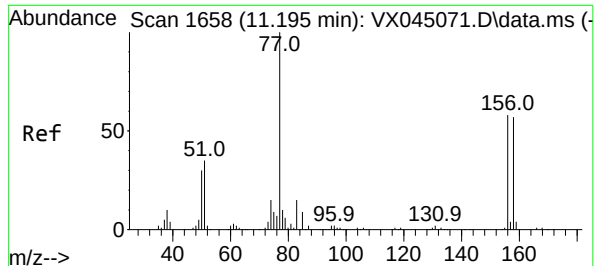
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#76
1,2,3-Trichloropropane
Concen: 151.960 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

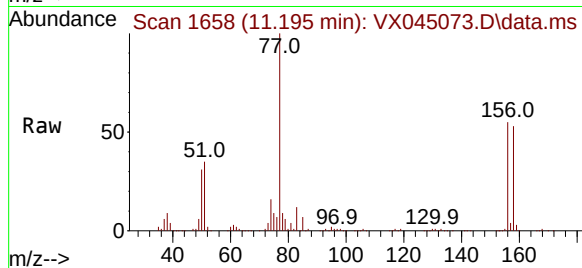
Tgt Ion: 75 Resp: 229435
Ion Ratio Lower Upper
75 100
77 43.2 20.7 62.1





#77
Bromobenzene
Concen: 145.760 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

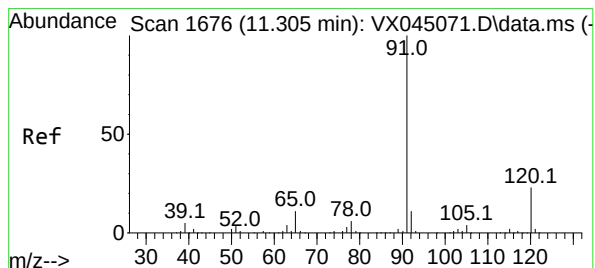
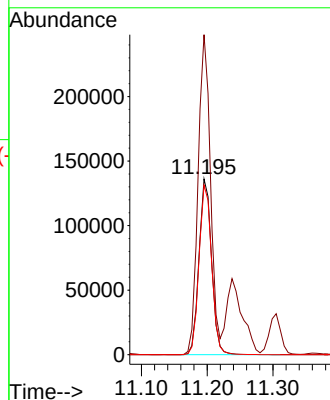
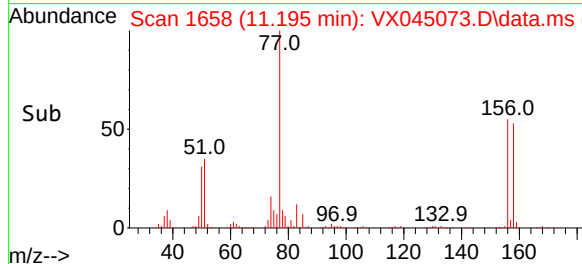
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



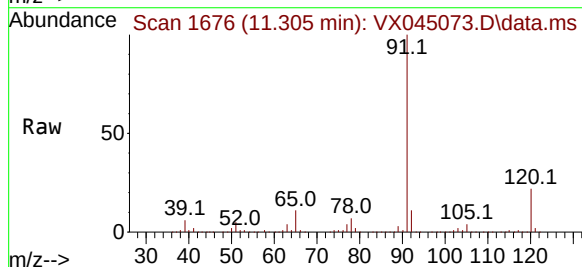
Tgt Ion:156 Resp: 180997
Ion Ratio Lower Upper
156 100
77 179.4 85.8 257.4
158 97.1 48.4 145.2

Manual Integrations
APPROVED

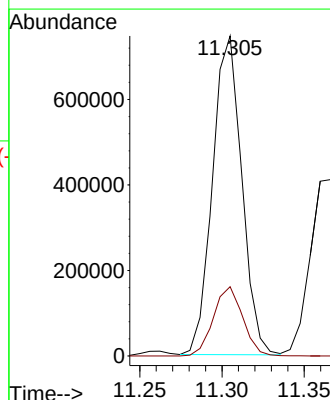
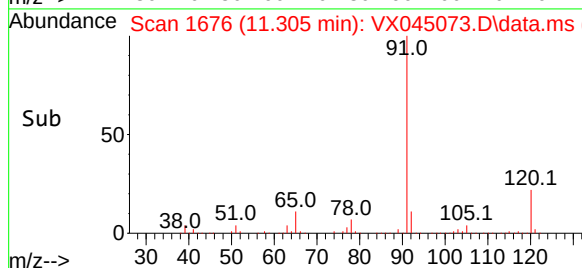
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

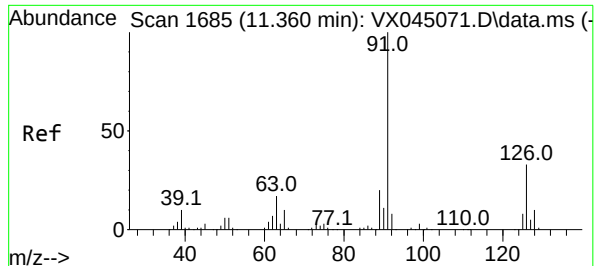


#78
n-propylbenzene
Concen: 146.395 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47



Tgt Ion: 91 Resp: 923593
Ion Ratio Lower Upper
91 100
120 21.8 11.2 33.6





#79

2-Chlorotoluene

Concen: 141.695 ug/l

RT: 11.366 min Scan# 1685

Delta R.T. 0.006 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 54869

Ion Ratio Lower Upper

91 100

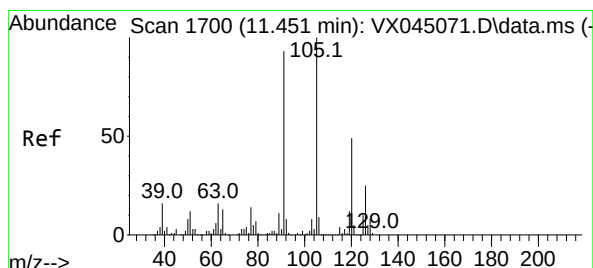
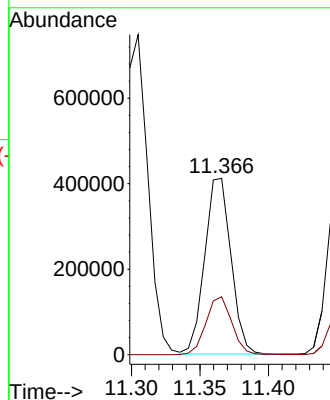
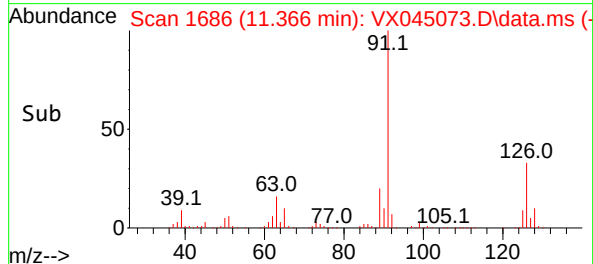
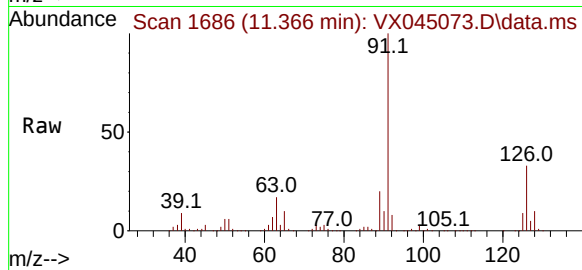
126 32.4 16.4 49.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#80

1,3,5-Trimethylbenzene

Concen: 143.293 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX045073.D

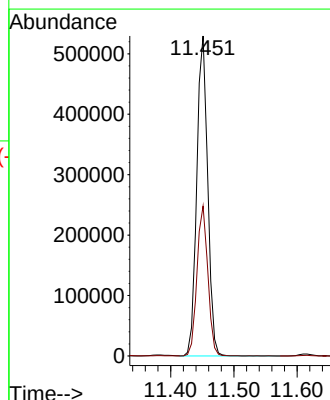
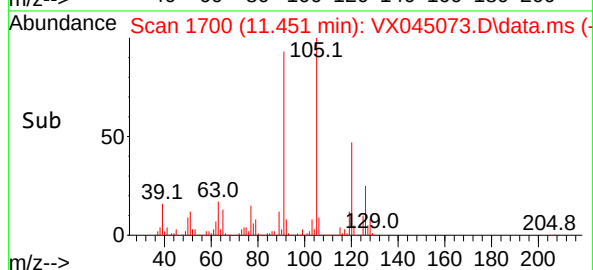
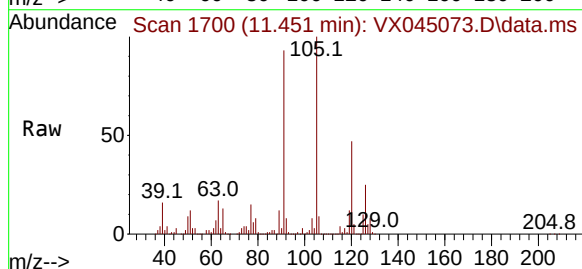
Acq: 28 Feb 2025 03:47

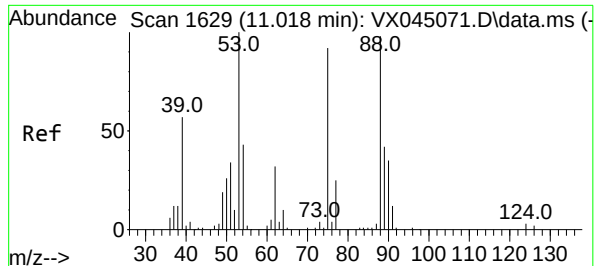
Tgt Ion:105 Resp: 635832

Ion Ratio Lower Upper

105 100

120 46.7 24.1 72.2





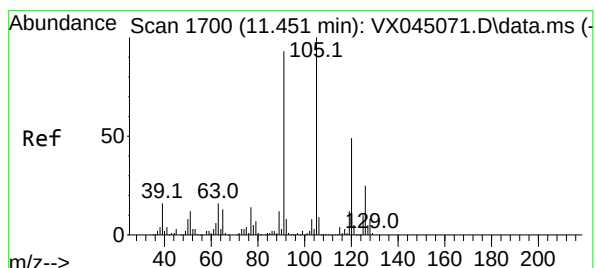
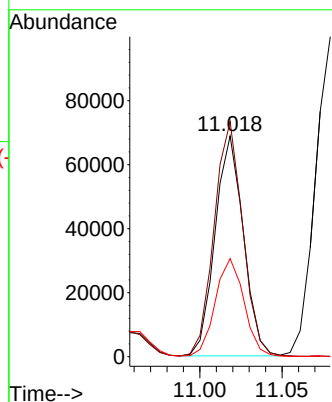
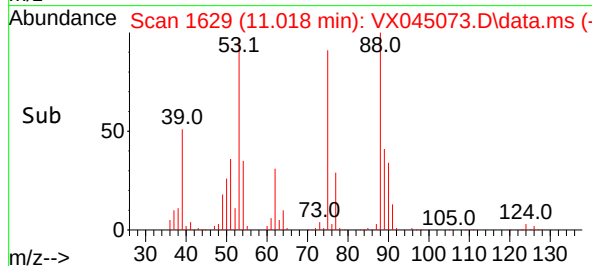
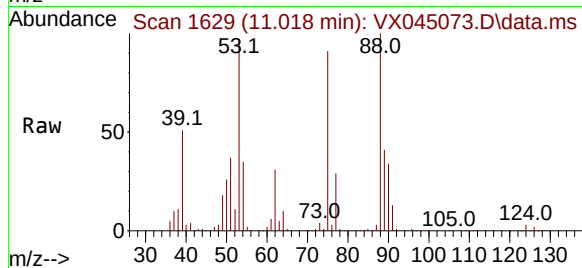
#81
trans-1,4-Dichloro-2-butene
Concen: 147.761 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion: 75 Resp: 8226
Ion Ratio Lower Upper
75 100
53 107.7 88.5 132.7
89 45.2 36.2 54.4

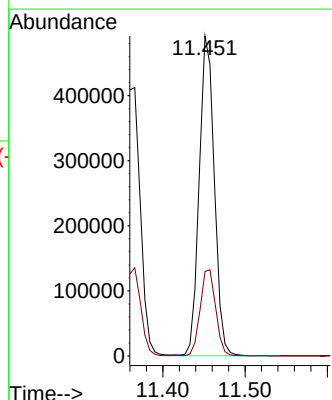
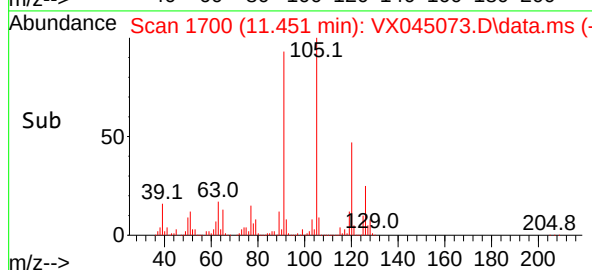
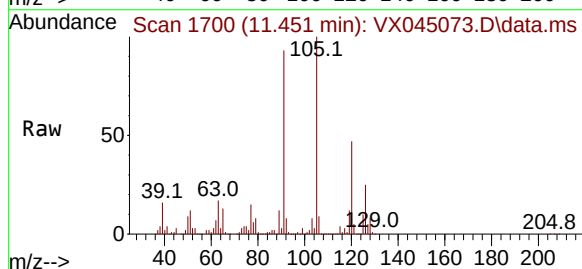
Manual Integrations
APPROVED

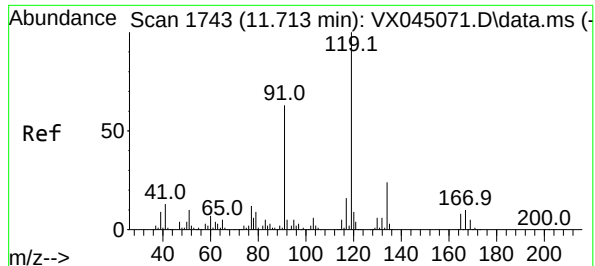
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#82
4-Chlorotoluene
Concen: 146.464 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

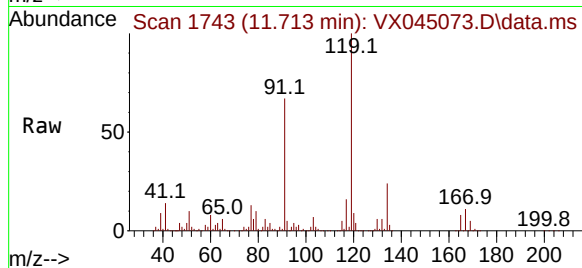
Tgt Ion: 91 Resp: 627816
Ion Ratio Lower Upper
91 100
126 27.8 14.1 42.4





#83
tert-Butylbenzene
Concen: 142.974 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

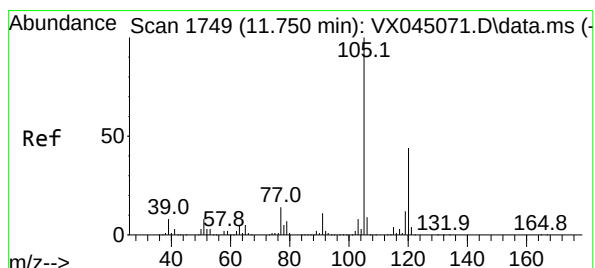
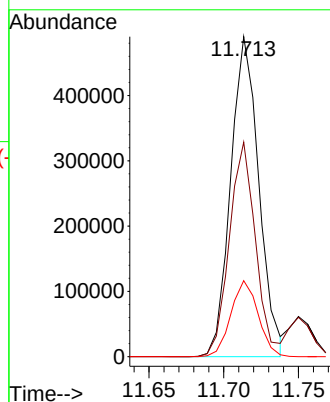
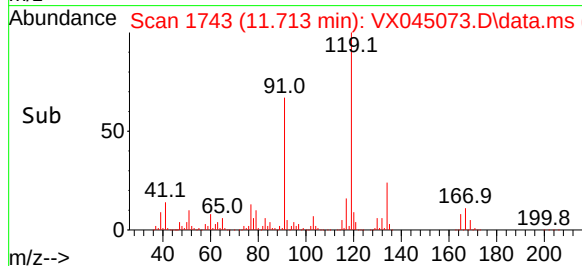
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:119 Resp: 641711
Ion Ratio Lower Upper
119 100
91 62.5 30.7 92.1
134 23.0 11.7 35.0

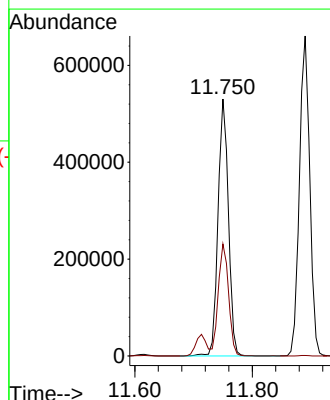
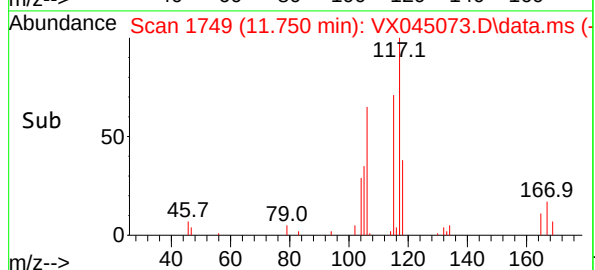
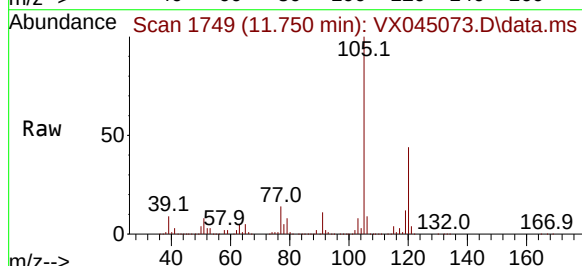
Manual Integrations
APPROVED

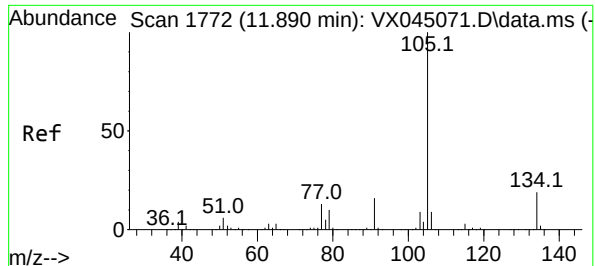
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#84
1,2,4-Trimethylbenzene
Concen: 148.135 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:105 Resp: 647248
Ion Ratio Lower Upper
105 100
120 43.8 22.1 66.1





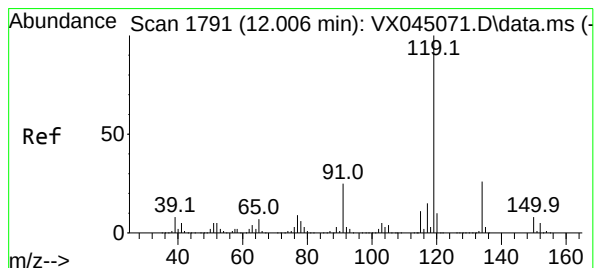
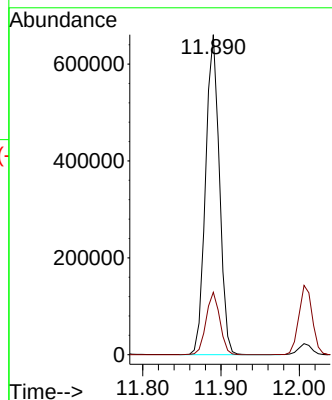
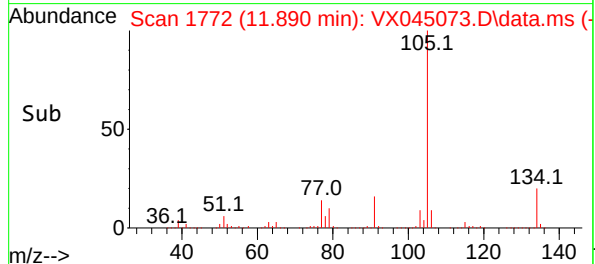
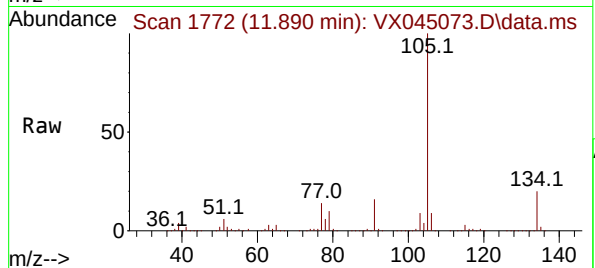
#85
sec-Butylbenzene
Concen: 145.383 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 80771
Ion Ratio Lower Upper
105 100
134 19.4 9.8 29.4

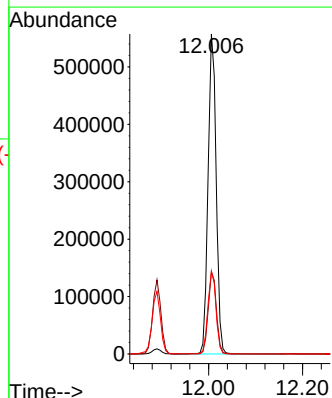
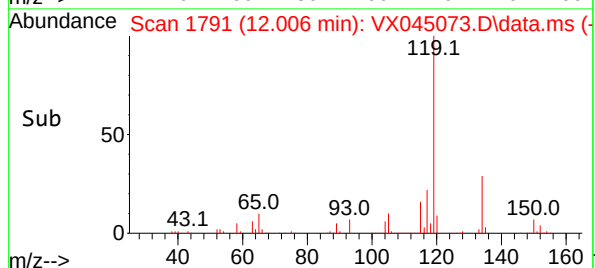
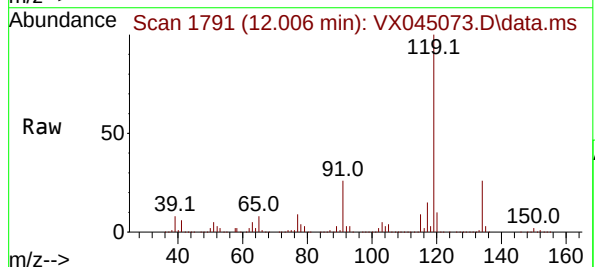
Manual Integrations
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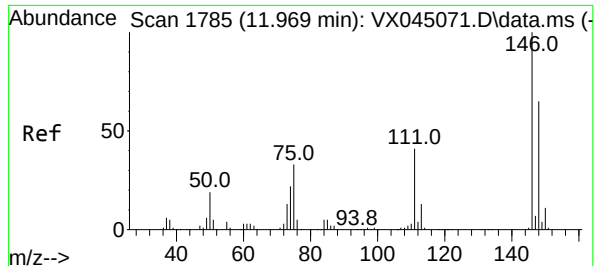
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#86
p-Isopropyltoluene
Concen: 149.075 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:119 Resp: 664916
Ion Ratio Lower Upper
119 100
134 25.7 12.9 38.6
91 25.8 12.7 38.0





#87

1,3-Dichlorobenzene

Concen: 147.488 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:146 Resp: 33475

Ion Ratio Lower Upper

146 100

111 42.7 21.1 63.4

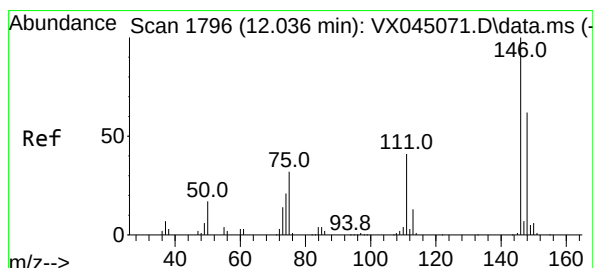
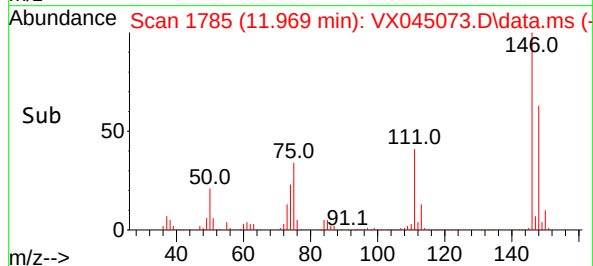
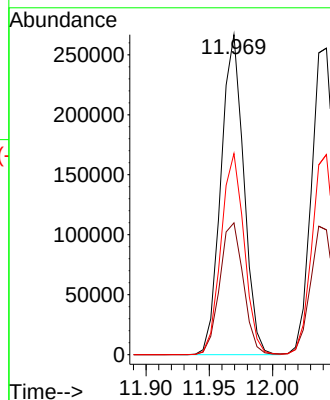
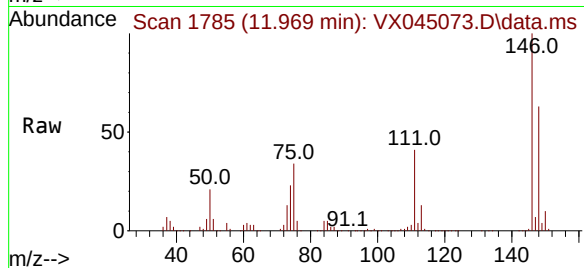
148 63.6 31.9 95.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#88

1,4-Dichlorobenzene

Concen: 145.189 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. 0.006 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

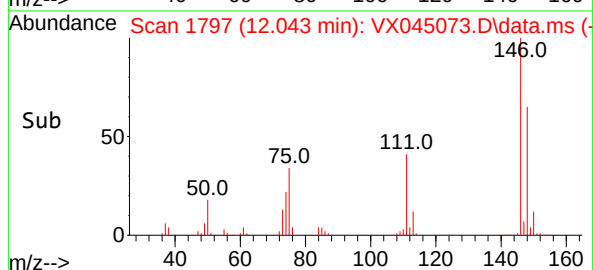
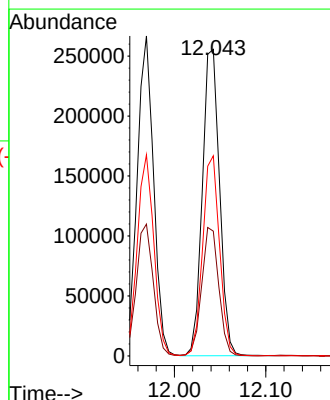
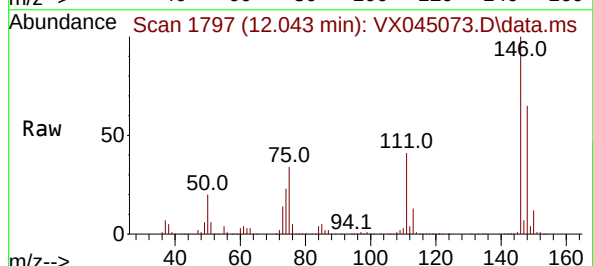
Tgt Ion:146 Resp: 333594

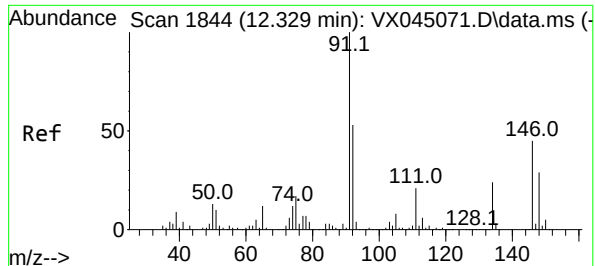
Ion Ratio Lower Upper

146 100

111 41.7 20.2 60.5

148 64.0 31.9 95.9





#89

n-Butylbenzene

Concen: 158.324 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 62075

Ion Ratio Lower Upper

91 100

92 53.9 26.7 80.0

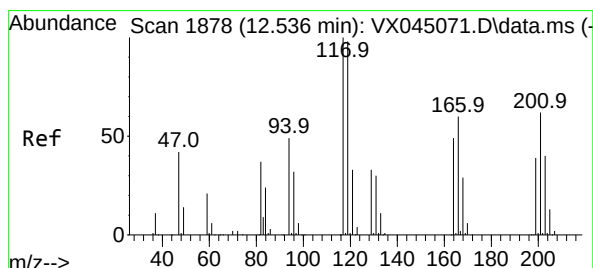
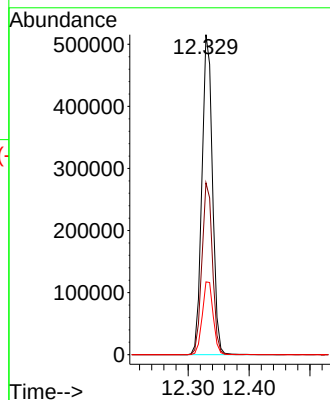
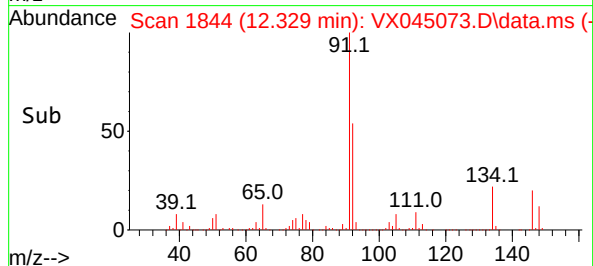
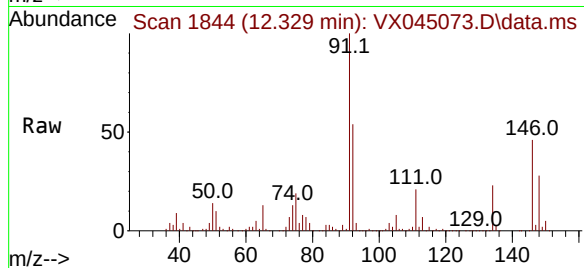
134 23.6 12.2 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#90

Hexachloroethane

Concen: 154.554 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX045073.D

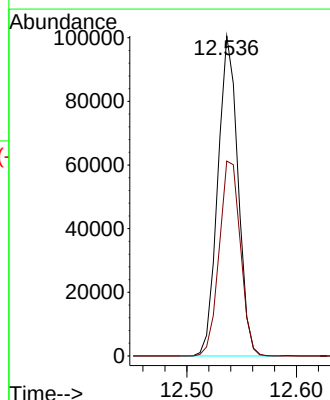
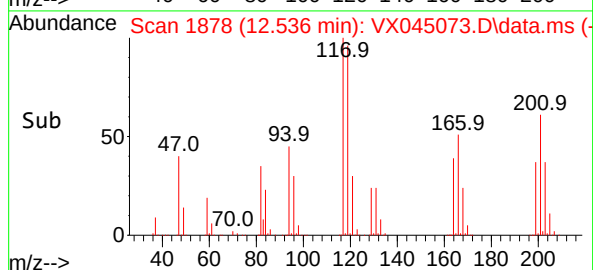
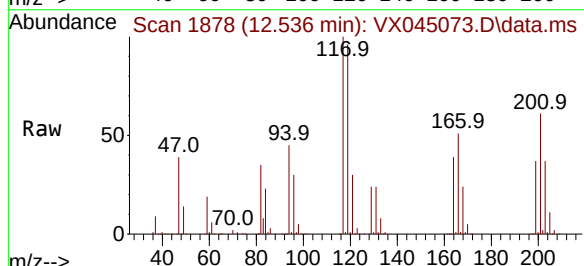
Acq: 28 Feb 2025 03:47

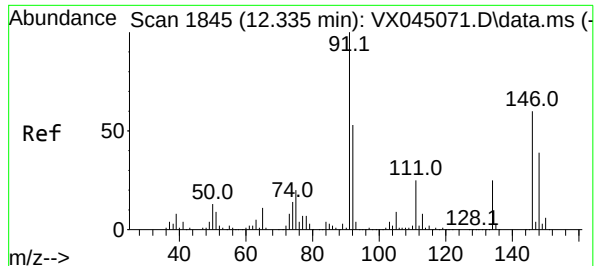
Tgt Ion:117 Resp: 128582

Ion Ratio Lower Upper

117 100

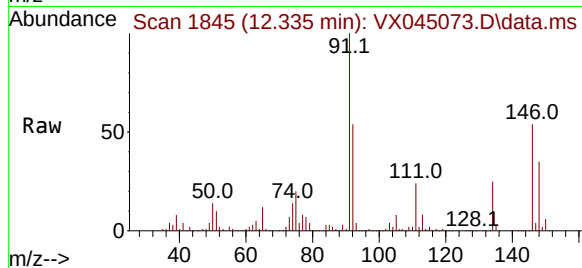
201 64.2 31.9 95.9





#91
1,2-Dichlorobenzene
Concen: 147.436 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

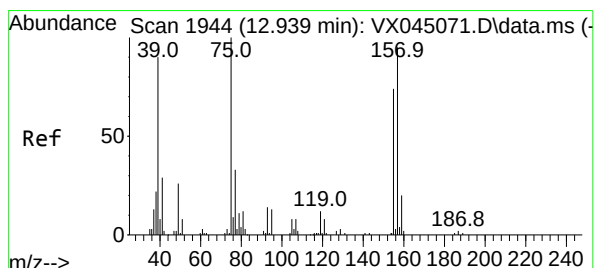
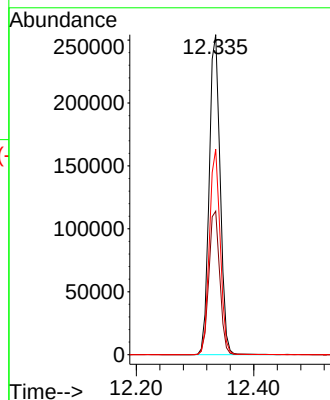
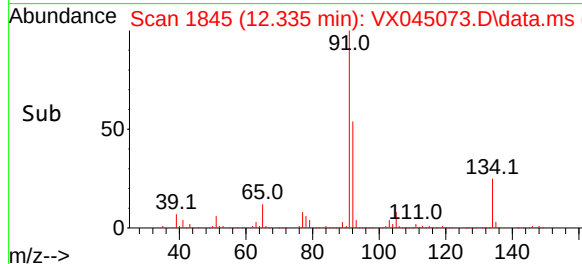
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:146 Resp: 329318
Ion Ratio Lower Upper
146 100
111 44.9 21.6 65.0
148 63.4 31.9 95.9

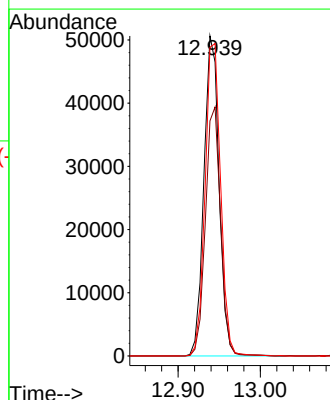
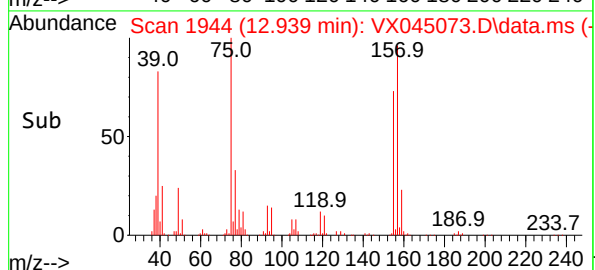
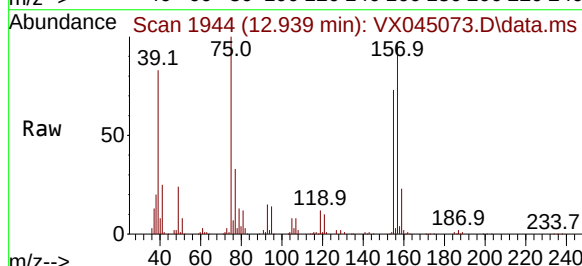
Manual Integrations
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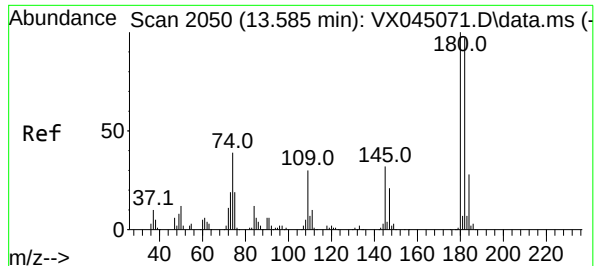
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 186.240 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 75 Resp: 64958
Ion Ratio Lower Upper
75 100
155 77.9 39.6 118.7
157 100.1 51.1 153.4





#93

1,2,4-Trichlorobenzene

Concen: 162.416 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:180 Resp: 21931

Ion Ratio Lower Upper

180 100

182 95.6 47.3 141.9

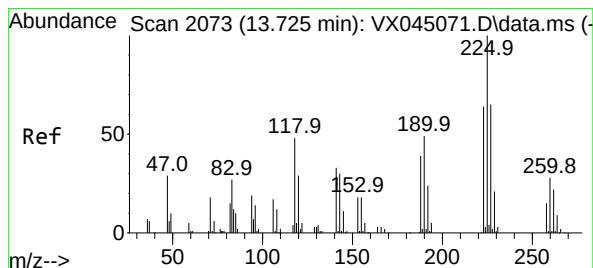
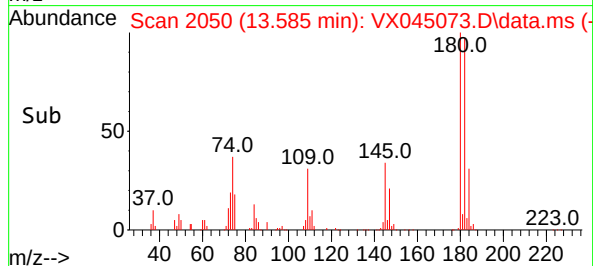
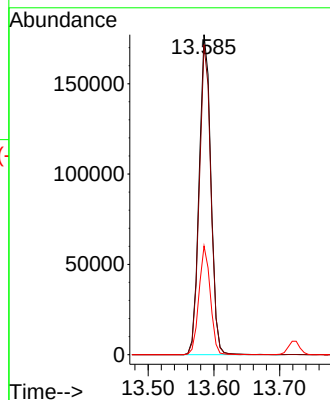
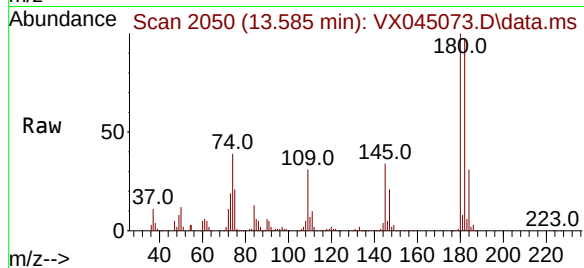
145 32.9 16.3 48.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#94

Hexachlorobutadiene

Concen: 149.034 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

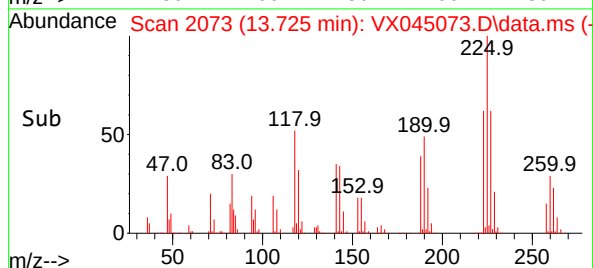
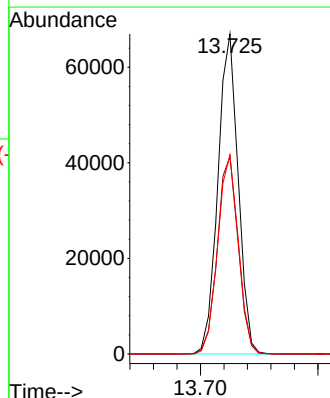
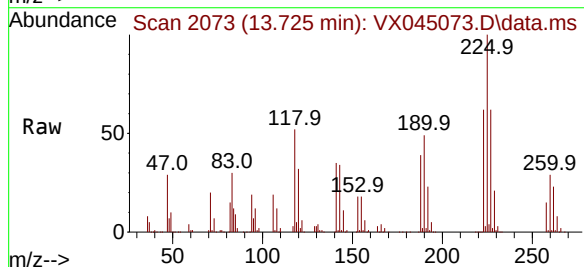
Tgt Ion:225 Resp: 80241

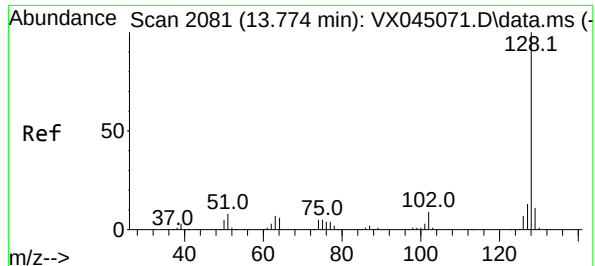
Ion Ratio Lower Upper

225 100

223 63.2 31.9 95.7

227 63.4 31.4 94.0





#95

Naphthalene

Concen: 168.538 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:128 Resp: 828949

Ion Ratio Lower Upper

128 100

127 12.8 10.3 15.5

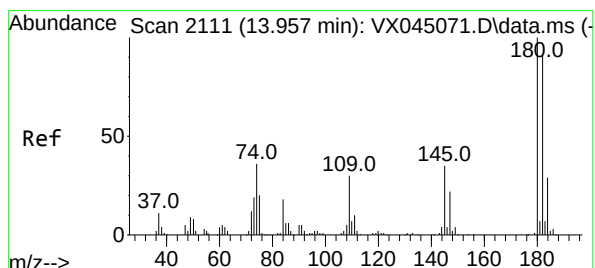
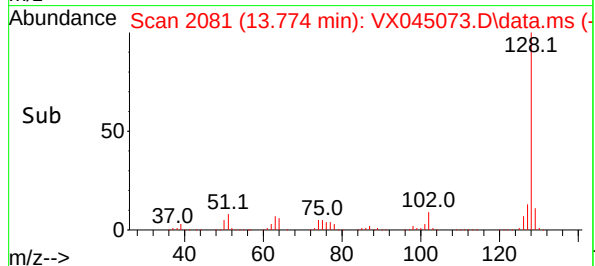
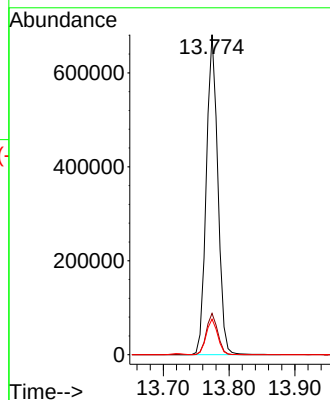
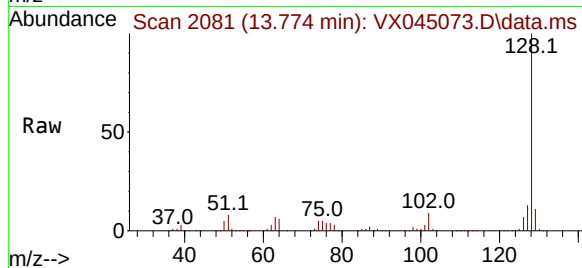
129 11.1 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#96

1,2,3-Trichlorobenzene

Concen: 162.727 ug/l

RT: 13.957 min Scan# 2111

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

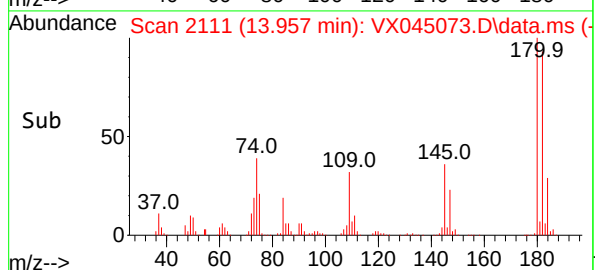
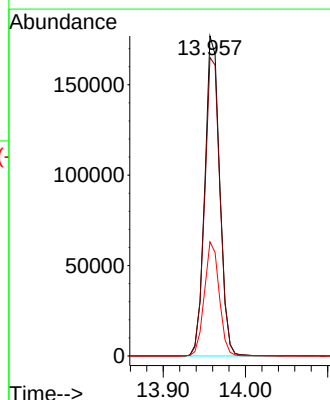
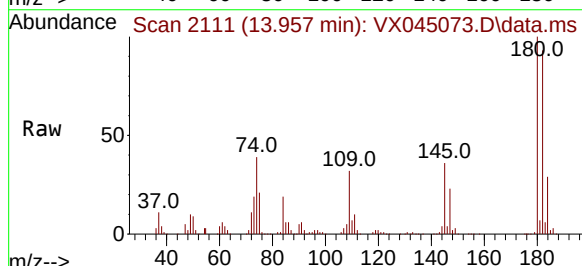
Tgt Ion:180 Resp: 222608

Ion Ratio Lower Upper

180 100

182 95.7 47.5 142.6

145 35.5 17.0 50.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
 Data File : VX045075.D
 Acq On : 28 Feb 2025 04:33
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX022825

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/28/2025
 Supervised By : Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 06:55:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	101603	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	184964	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	157797	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	69357	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	81288	50.297	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 100.600%	
35) Dibromofluoromethane	5.385	113	62880	50.841	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.680%	
50) Toluene-d8	8.647	98	225823	50.364	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 100.720%	
62) 4-Bromofluorobenzene	11.079	95	73162	49.240	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 98.480%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	61303	47.933	ug/l	95
3) Chloromethane	1.306	50	76216	48.696	ug/l	94
4) Vinyl Chloride	1.373	62	76901	49.529	ug/l	97
5) Bromomethane	1.593	94	28193	46.190	ug/l	97
6) Chloroethane	1.660	64	30042	41.948	ug/l	99
7) Trichlorofluoromethane	1.867	101	101886	49.569	ug/l	98
8) Diethyl Ether	2.136	74	39113	48.651	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.312	101	59477	50.367	ug/l	100
10) Methyl Iodide	2.440	142	74585	50.541	ug/l	98
11) Tert butyl alcohol	2.989	59	73034	238.577	ug/l	98
12) 1,1-Dichloroethene	2.306	96	61885	49.568	ug/l	98
13) Acrolein	2.239	56	95989	271.255	ug/l	99
14) Allyl chloride	2.654	41	114875	51.691	ug/l	98
15) Acrylonitrile	3.068	53	209607	255.479	ug/l	99
16) Acetone	2.392	43	182119	242.877	ug/l	100
17) Carbon Disulfide	2.501	76	166105	49.952	ug/l	97
18) Methyl Acetate	2.709	43	90756	50.312	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	222475	53.114	ug/l	99
20) Methylene Chloride	2.782	84	73731	49.639	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	63117	51.172	ug/l	98
22) Diisopropyl ether	3.763	45	243860	53.955	ug/l	97
23) Vinyl Acetate	3.721	43	1064817	282.313	ug/l	100
24) 1,1-Dichloroethane	3.605	63	129666	51.190	ug/l	100
25) 2-Butanone	4.562	43	298021	264.040	ug/l	98
26) 2,2-Dichloropropane	4.471	77	58694	49.401	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	78576	51.606	ug/l	100
28) Bromochloromethane	4.891	49	60849	50.399	ug/l	100
29) Tetrahydrofuran	5.007	42	195768	258.277	ug/l	99
30) Chloroform	5.086	83	126437	50.236	ug/l	98
31) Cyclohexane	5.464	56	110288	50.158	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	103546	50.939	ug/l	99
36) 1,1-Dichloropropene	5.684	75	82722	48.770	ug/l	99
37) Ethyl Acetate	4.714	43	112768	51.596	ug/l	99
38) Carbon Tetrachloride	5.672	117	85110	49.425	ug/l	99
39) Methylcyclohexane	7.372	83	103996	51.169	ug/l	98
40) Benzene	6.031	78	274206	51.195	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
 Data File : VX045075.D
 Acq On : 28 Feb 2025 04:33
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX022825

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/28/2025
 Supervised By : Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 06:55:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	63051	53.352	ug/l	99
42) 1,2-Dichloroethane	6.080	62	97821	50.718	ug/l	100
43) Isopropyl Acetate	6.342	43	175982	54.452	ug/l	100
44) Trichloroethene	7.122	130	61530	48.924	ug/l	99
45) 1,2-Dichloropropane	7.427	63	70350	51.086	ug/l	97
46) Dibromomethane	7.580	93	50284	51.661	ug/l	99
47) Bromodichloromethane	7.817	83	97236	50.930	ug/l	99
48) Methyl methacrylate	7.689	41	87582	54.016	ug/l	100
49) 1,4-Dioxane	7.665	88	35878	1049.007	ug/l	98
51) 4-Methyl-2-Pentanone	8.573	43	564197	259.995	ug/l	99
52) Toluene	8.714	92	160331	51.020	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	86584	54.247	ug/l	99
54) cis-1,3-Dichloropropene	8.366	75	98146	52.732	ug/l	95
55) 1,1,2-Trichloroethane	9.146	97	64985	50.232	ug/l	99
56) Ethyl methacrylate	9.116	69	106405	54.109	ug/l	100
57) 1,3-Dichloropropane	9.305	76	114880	51.312	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	264335	275.557	ug/l	99
59) 2-Hexanone	9.427	43	416731	265.049	ug/l	99
60) Dibromochloromethane	9.518	129	69492	51.374	ug/l	98
61) 1,2-Dibromoethane	9.610	107	66501	51.492	ug/l	99
64) Tetrachloroethene	9.268	164	50659	50.126	ug/l	96
65) Chlorobenzene	10.079	112	168885	50.580	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	56822	51.102	ug/l	98
67) Ethyl Benzene	10.189	91	300324	51.621	ug/l	100
68) m/p-Xylenes	10.299	106	220335	103.454	ug/l	99
69) o-Xylene	10.640	106	108836	50.668	ug/l	100
70) Styrene	10.652	104	181349	52.177	ug/l	100
71) Bromoform	10.799	173	44135	52.636	ug/l #	100
73) Isopropylbenzene	10.957	105	279278	51.589	ug/l	99
74) N-amyl acetate	10.841	43	144412	56.851	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	100800	50.741	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	80618m	49.940	ug/l	
77) Bromobenzene	11.195	156	64324	50.360	ug/l	100
78) n-propylbenzene	11.305	91	319235	52.203	ug/l	99
79) 2-Chlorotoluene	11.360	91	192150	49.338	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	225622	51.544	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	23943	50.757	ug/l	99
82) 4-Chlorotoluene	11.451	91	216511	51.009	ug/l	100
83) tert-Butylbenzene	11.713	119	227357	50.552	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	228729	51.932	ug/l	100
85) sec-Butylbenzene	11.890	105	283931	52.703	ug/l	100
86) p-Isopropyltoluene	12.006	119	229894	52.803	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	114778	50.372	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	115486	50.097	ug/l	99
89) n-Butylbenzene	12.329	91	204972	54.662	ug/l	99
90) Hexachloroethane	12.536	117	40844	51.866	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	116343	50.899	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.938	75	20589	53.199	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	71368	54.834	ug/l	98
94) Hexachlorobutadiene	13.725	225	26697	50.032	ug/l	99
95) Naphthalene	13.774	128	275844	55.163	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	74211	54.049	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

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

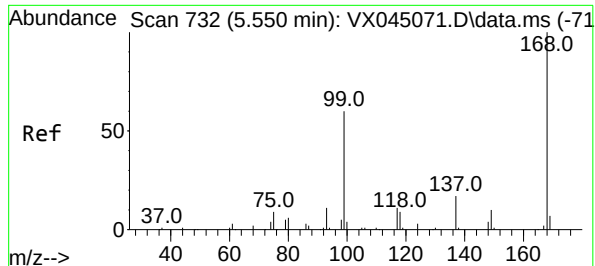
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025





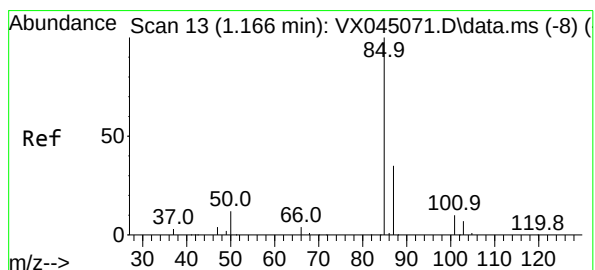
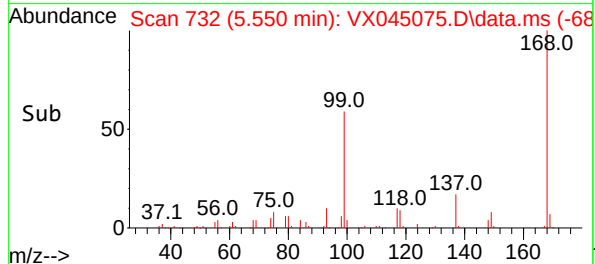
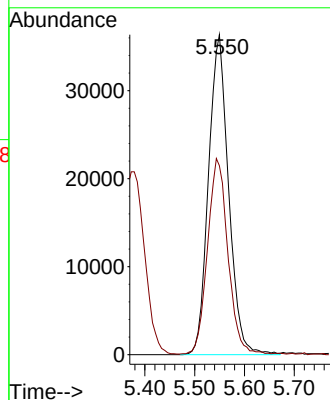
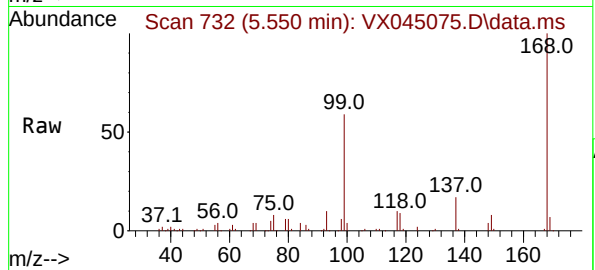
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion:168 Resp: 10160
Ion Ratio Lower Upper
168 100
99 58.9 48.2 72.4

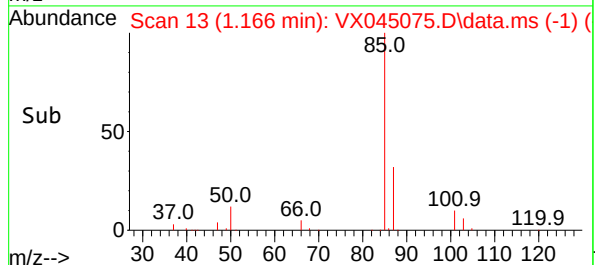
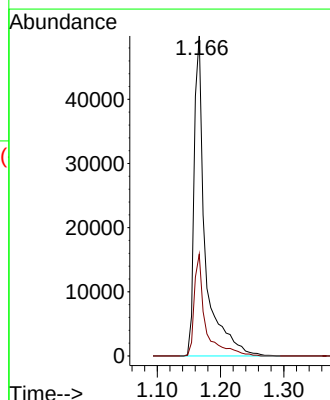
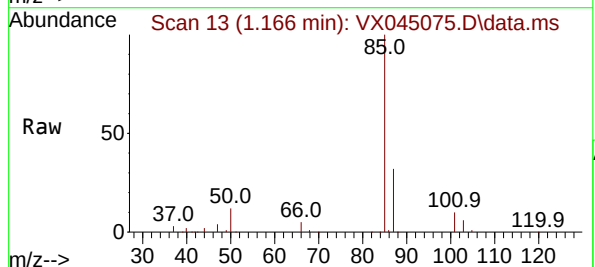
Manual Integrations
APPROVED

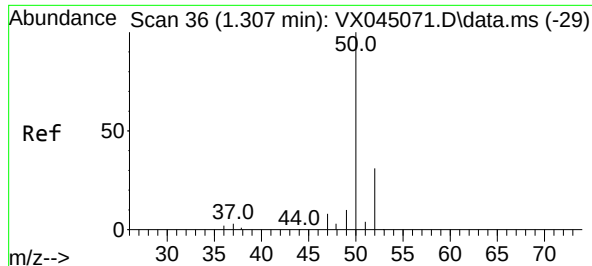
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#2
Dichlorodifluoromethane
Concen: 47.933 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 85 Resp: 61303
Ion Ratio Lower Upper
85 100
87 31.8 17.4 52.3





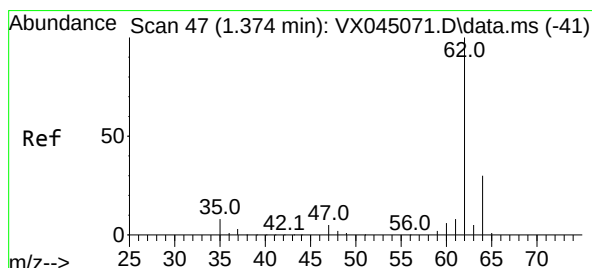
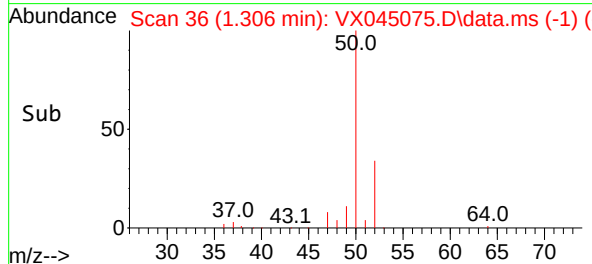
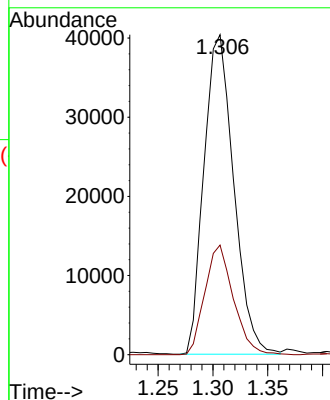
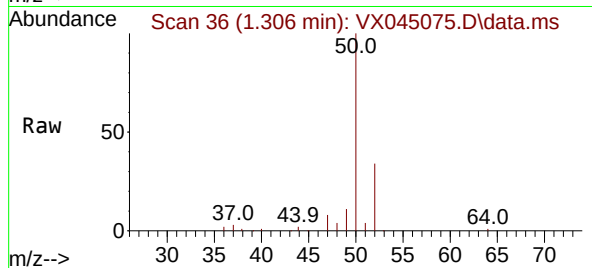
#3
Chloromethane
Concen: 48.696 ug/l
RT: 1.306 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 50 Resp: 76210
Ion Ratio Lower Upper
50 100
52 34.3 25.0 37.4

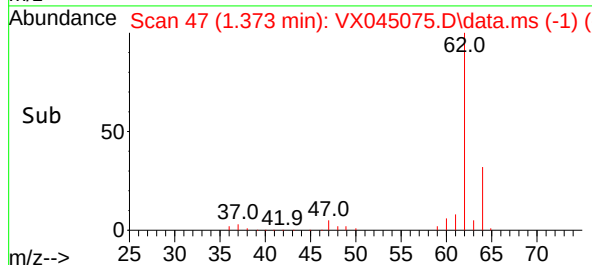
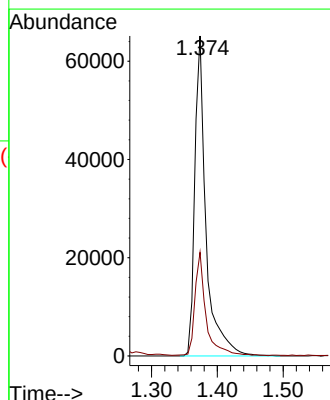
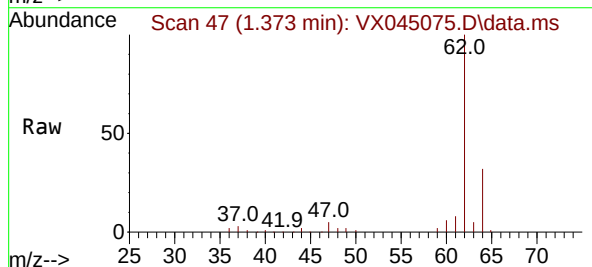
Manual Integrations
APPROVED

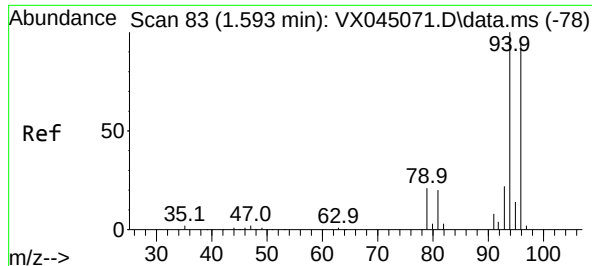
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#4
Vinyl Chloride
Concen: 49.529 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

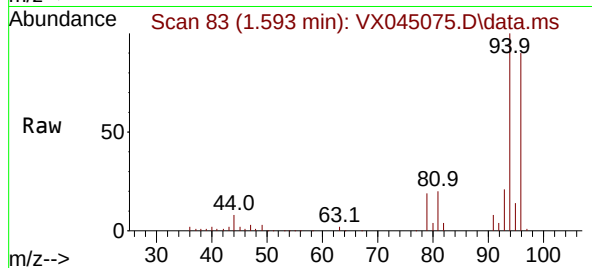
Tgt Ion: 62 Resp: 76901
Ion Ratio Lower Upper
62 100
64 32.2 24.3 36.5





#5
Bromomethane
Concen: 46.190 ug/l
RT: 1.593 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

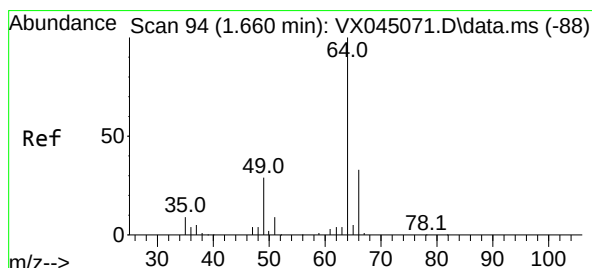
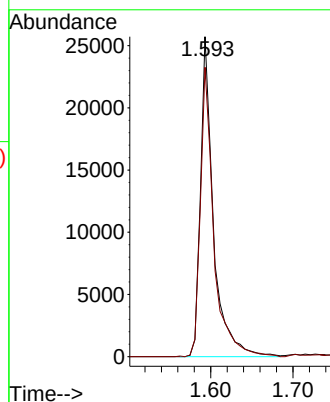
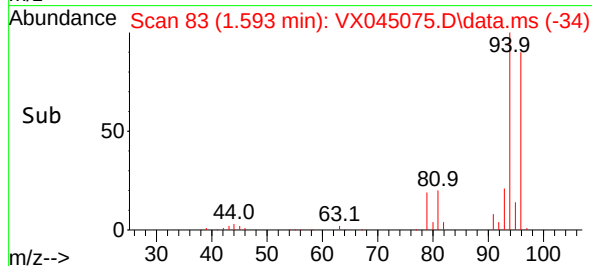
Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825



Tgt Ion: 94 Resp: 2819
Ion Ratio Lower Upper
94 100
96 90.5 75.0 112.4

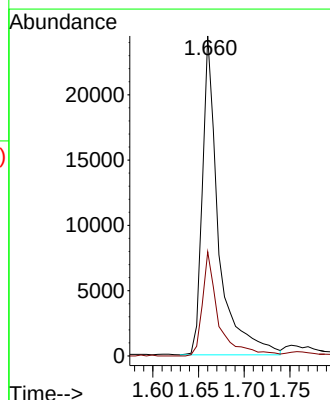
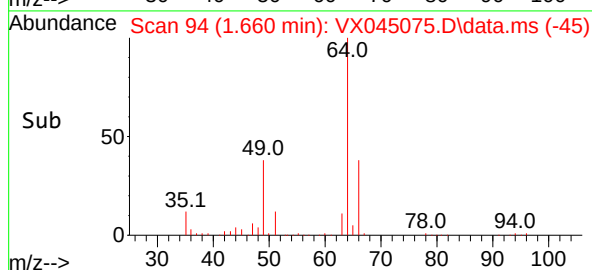
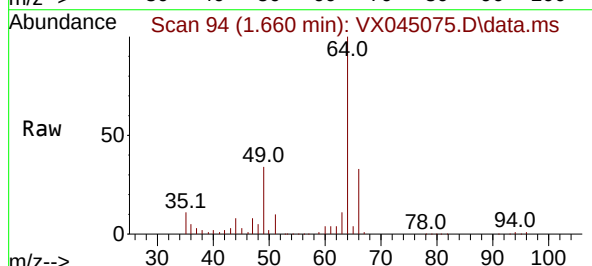
Manual Integrations
APPROVED

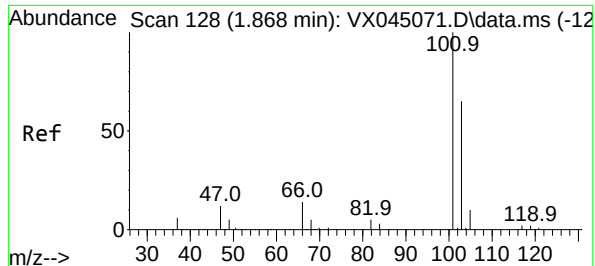
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#6
Chloroethane
Concen: 41.948 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

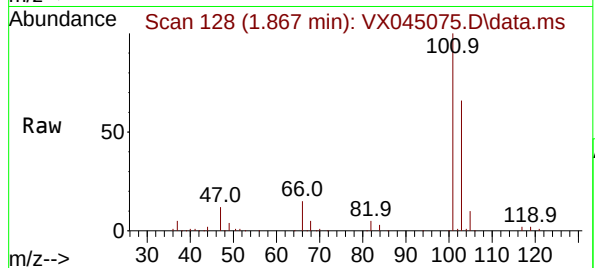
Tgt Ion: 64 Resp: 30042
Ion Ratio Lower Upper
64 100
66 32.6 26.7 40.1





#7
Trichlorofluoromethane
Concen: 49.569 ug/l
RT: 1.867 min Scan# 101
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

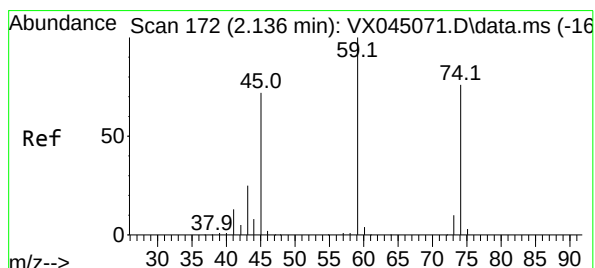
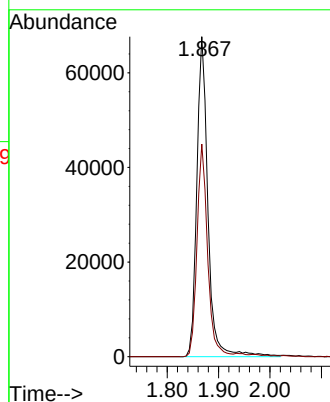
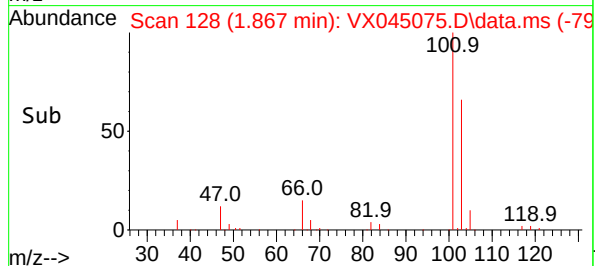
Instrument :
MSVOA_X
ClientSampleId :
ICVX022825



Tgt Ion:101 Resp: 10188
Ion Ratio Lower Upper
101 100
103 66.4 52.1 78.1

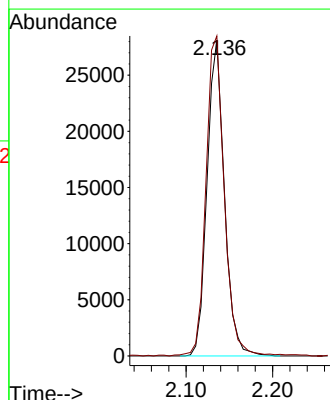
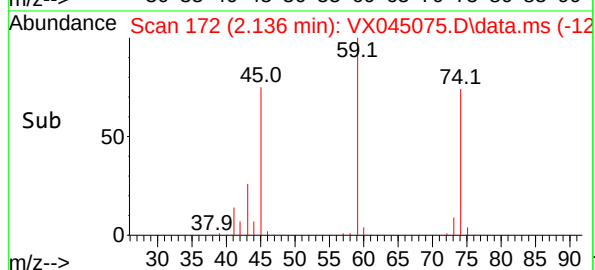
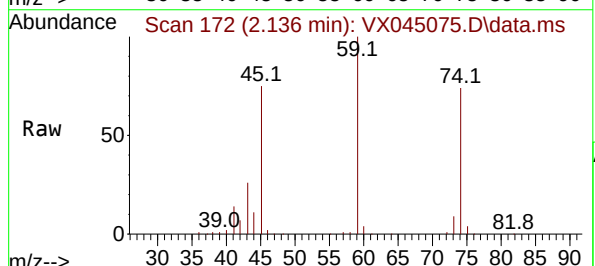
Manual Integrations
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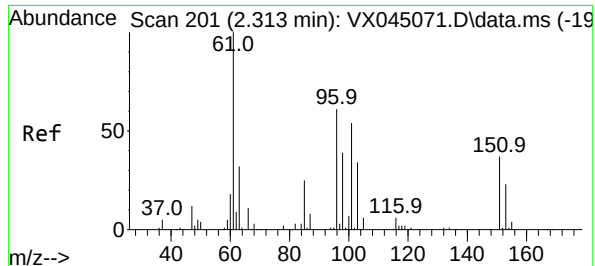
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#8
Diethyl Ether
Concen: 48.651 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 74 Resp: 39113
Ion Ratio Lower Upper
74 100
45 107.2 51.5 154.5





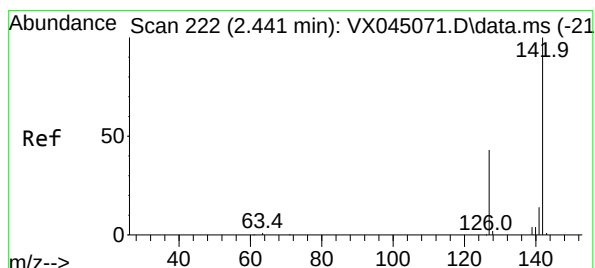
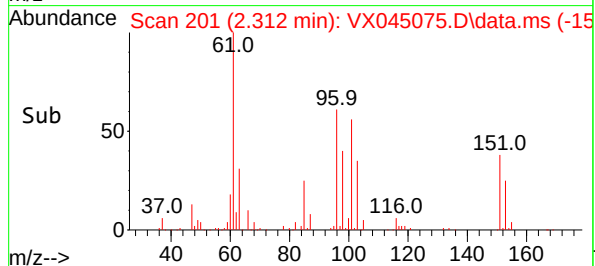
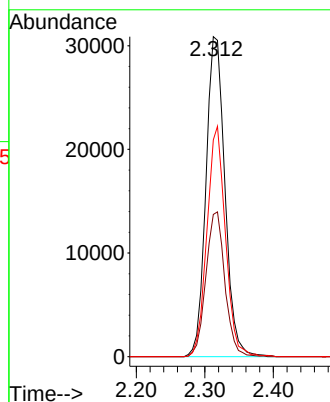
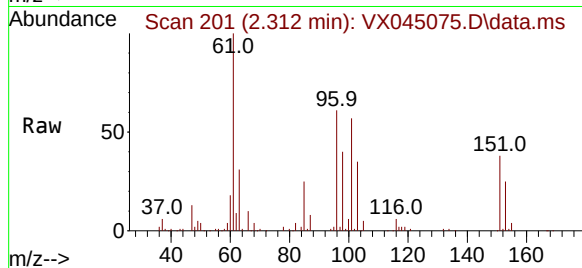
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.367 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVX022825

Tgt Ion:101 Resp: 5947
Ion Ratio Lower Upper
101 100
85 45.4 36.2 54.4
151 70.2 56.4 84.6

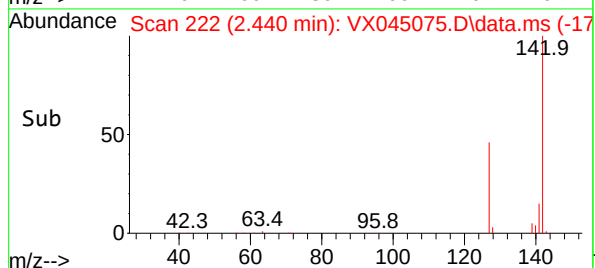
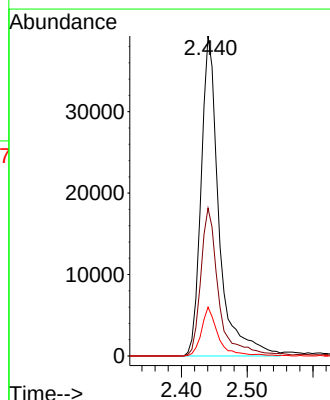
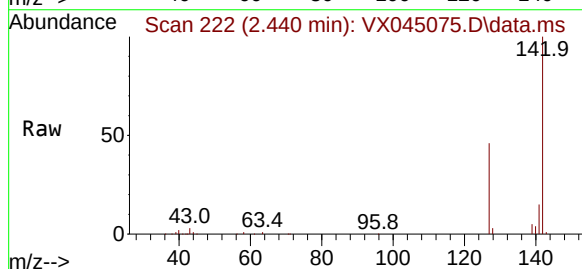
Manual Integrations
APPROVED

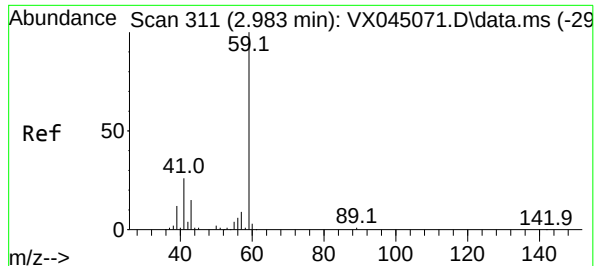
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#10
Methyl Iodide
Concen: 50.541 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:142 Resp: 74585
Ion Ratio Lower Upper
142 100
127 46.3 35.4 53.2
141 14.3 11.6 17.4





#11

Tert butyl alcohol

Concen: 238.577 ug/l

RT: 2.989 min Scan# 311

Delta R.T. 0.006 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

Instrument :

MSVOA_X

ClientSampleId :

ICVX022825

Tgt Ion: 59 Resp: 73034

Ion Ratio Lower Upper

59 100

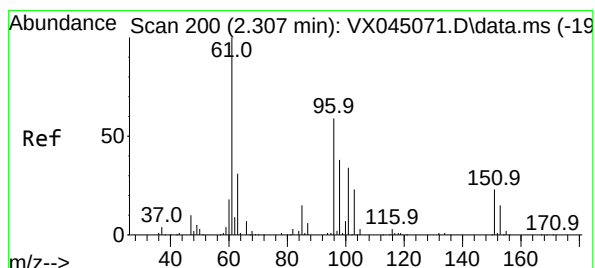
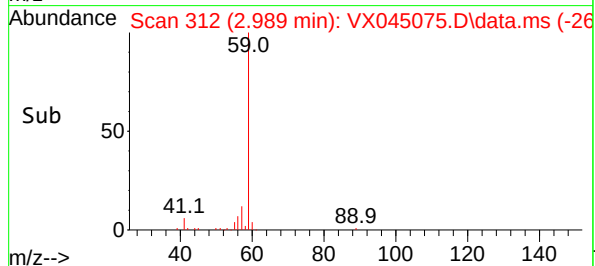
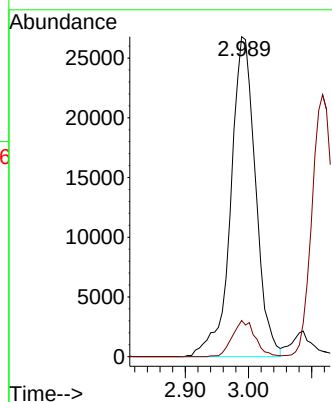
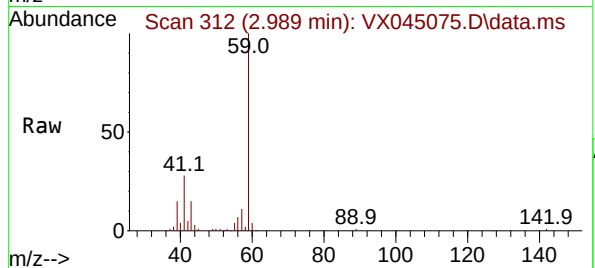
57 10.4 7.8 11.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#12

1,1-Dichloroethene

Concen: 49.568 ug/l

RT: 2.306 min Scan# 200

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

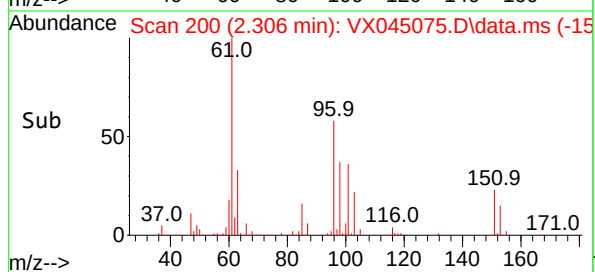
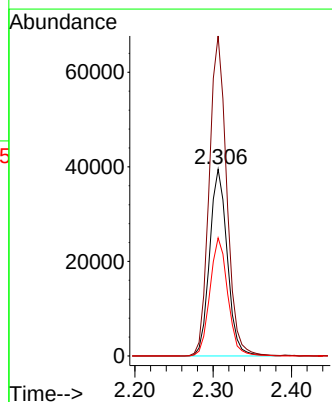
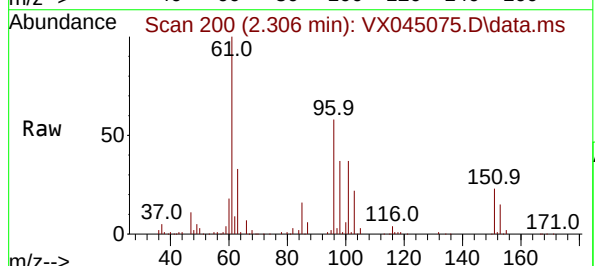
Tgt Ion: 96 Resp: 61885

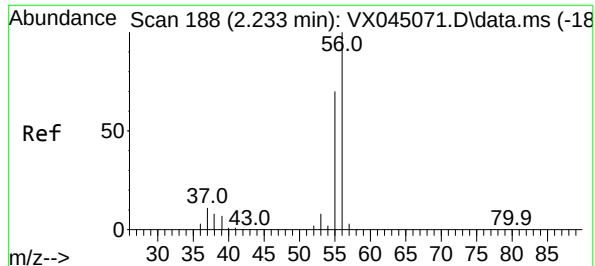
Ion Ratio Lower Upper

96 100

61 171.3 134.6 202.0

98 63.2 51.0 76.6





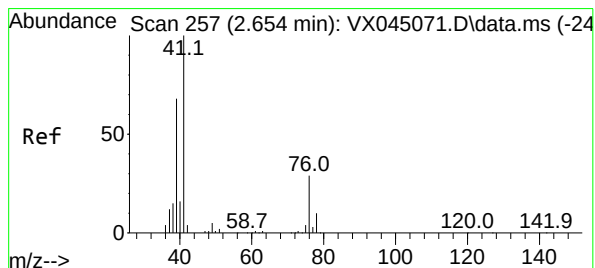
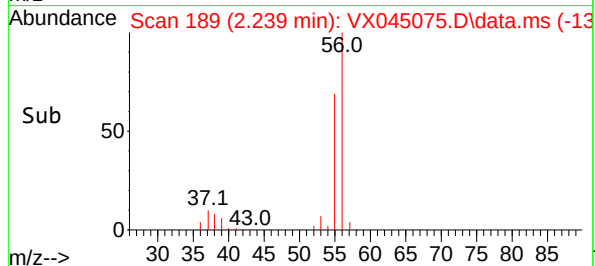
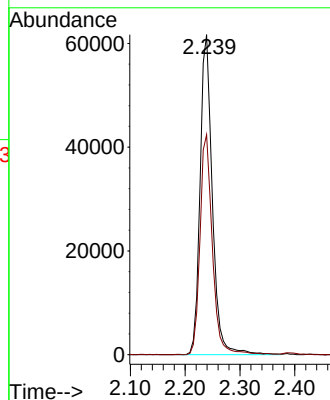
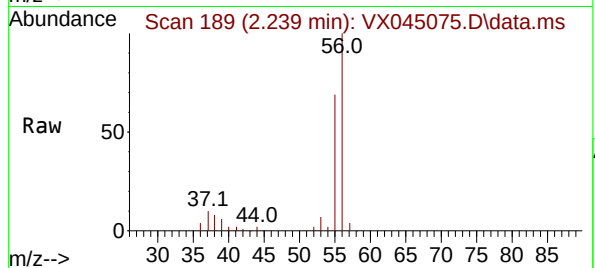
#13
Acrolein
Concen: 271.255 ug/l
RT: 2.239 min Scan# 188
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVX022825

Tgt Ion: 56 Resp: 95989
Ion Ratio Lower Upper
56 100
55 69.5 56.2 84.4

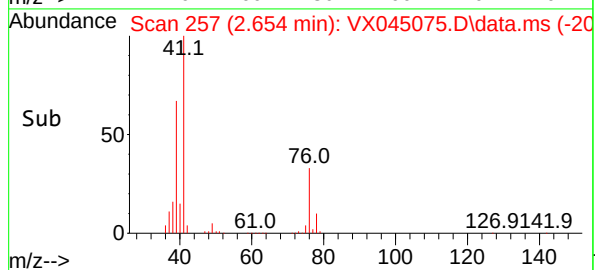
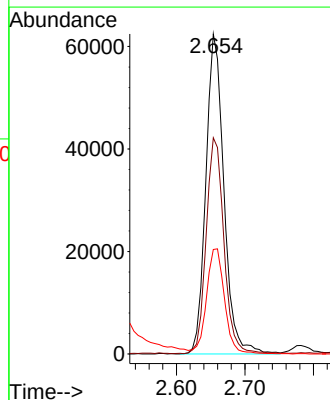
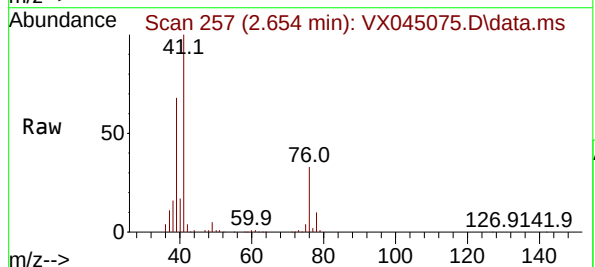
Manual Integrations
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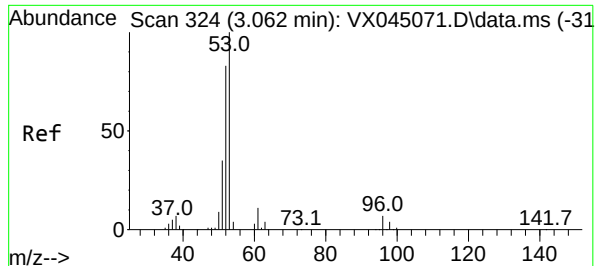
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#14
Allyl chloride
Concen: 51.691 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 41 Resp: 114875
Ion Ratio Lower Upper
41 100
39 66.3 53.8 80.8
76 33.0 25.2 37.8





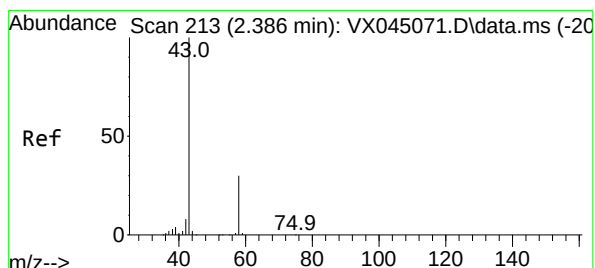
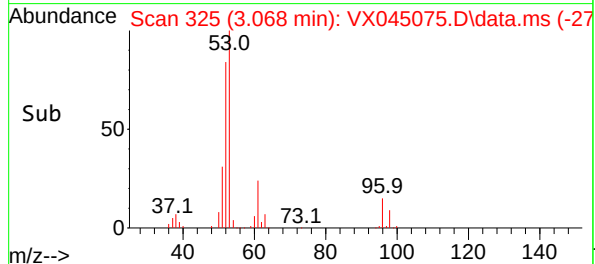
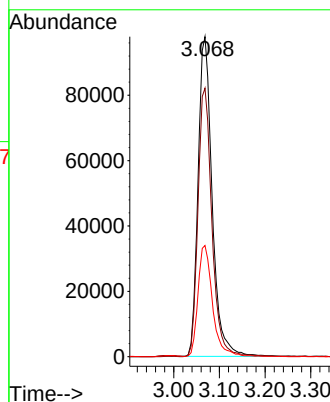
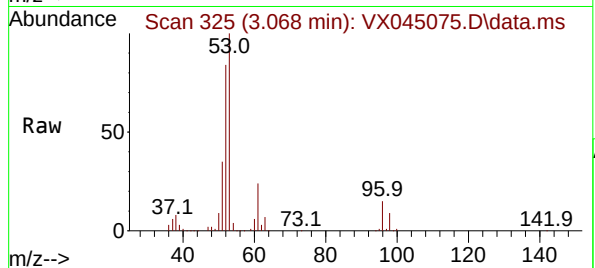
#15
Acrylonitrile
Concen: 255.479 ug/l
RT: 3.068 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 53 Resp: 20960
Ion Ratio Lower Upper
53 100
52 83.8 66.2 99.2
51 35.8 29.0 43.4

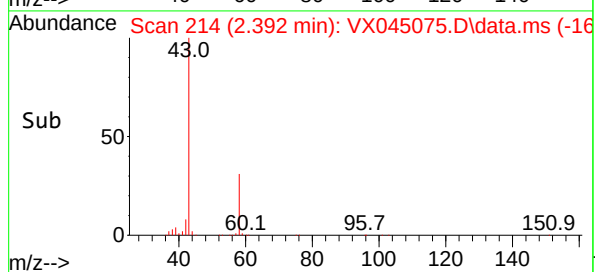
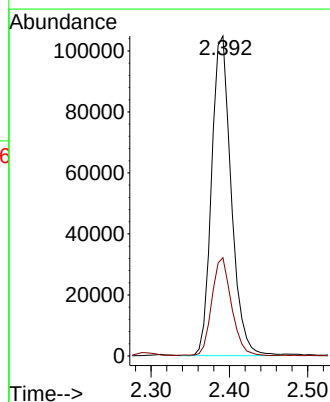
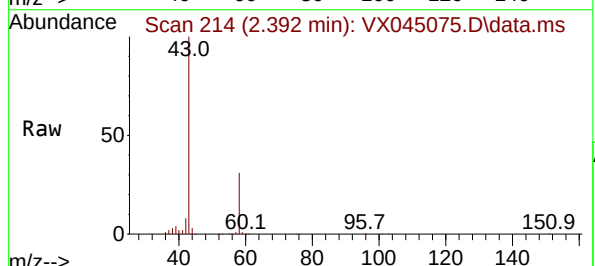
Manual Integrations
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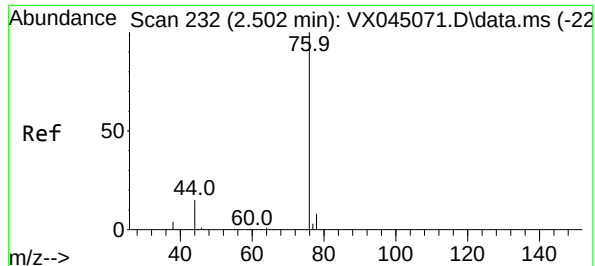
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#16
Acetone
Concen: 242.877 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 43 Resp: 182119
Ion Ratio Lower Upper
43 100
58 30.5 24.2 36.4





#17

Carbon Disulfide

Concen: 49.952 ug/l

RT: 2.501 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

Instrument :

MSVOA_X

ClientSampleId :

ICVVX022825

Tgt Ion: 76 Resp: 16610

Ion Ratio Lower Upper

76 100

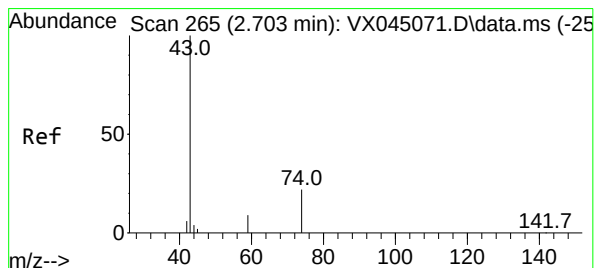
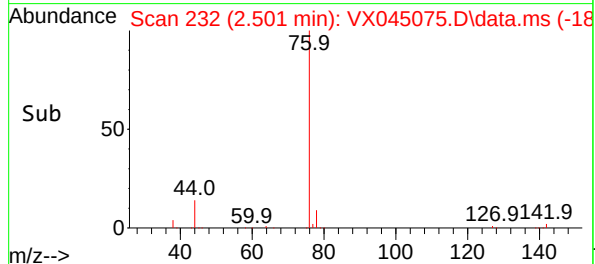
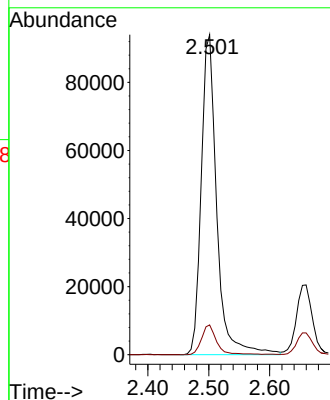
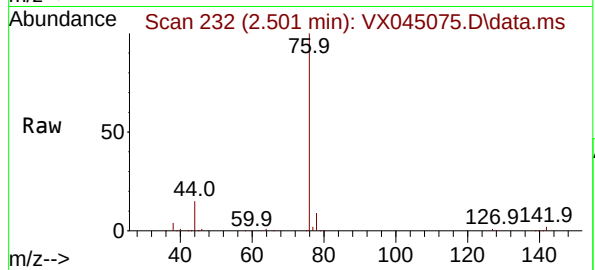
78 9.3 6.6 9.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#18

Methyl Acetate

Concen: 50.312 ug/l

RT: 2.709 min Scan# 266

Delta R.T. 0.006 min

Lab File: VX045075.D

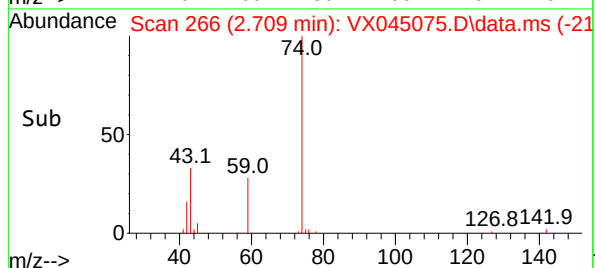
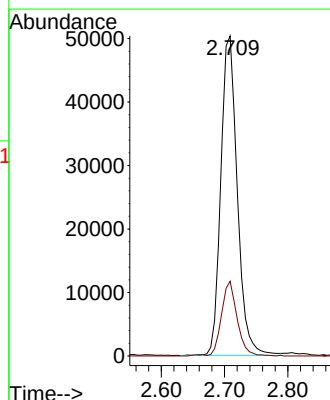
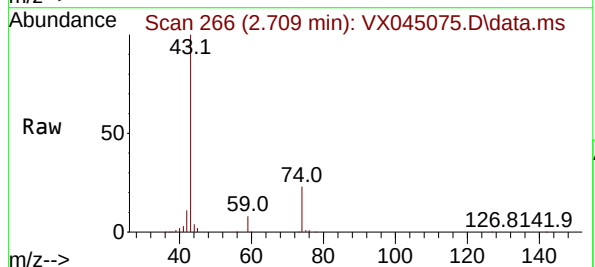
Acq: 28 Feb 2025 04:33

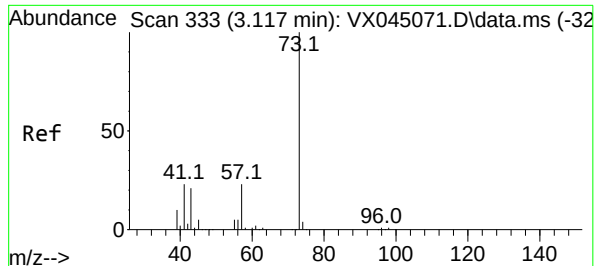
Tgt Ion: 43 Resp: 90756

Ion Ratio Lower Upper

43 100

74 22.1 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 53.114 ug/l

RT: 3.117 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

Instrument :

MSVOA_X

ClientSampleId :

ICVVX022825

Tgt Ion: 73 Resp: 222475

Ion Ratio Lower Upper

73 100

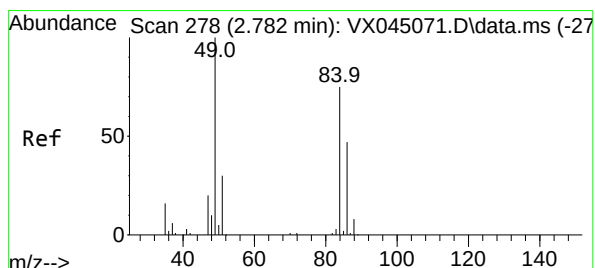
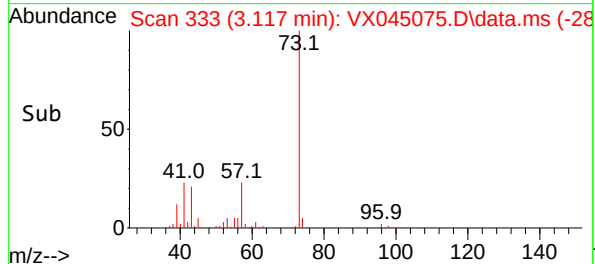
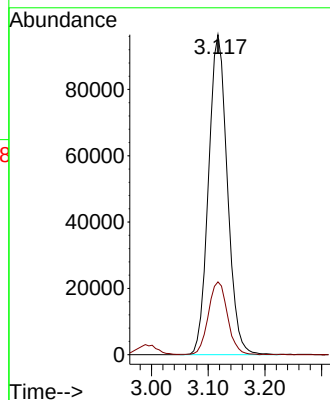
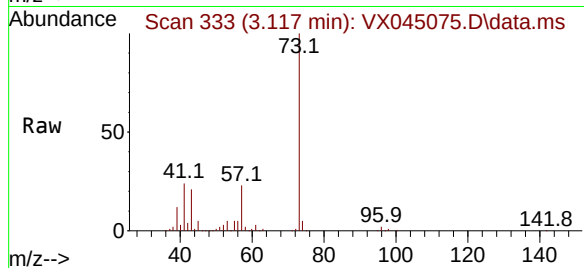
57 22.7 18.5 27.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#20

Methylene Chloride

Concen: 49.639 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

Tgt Ion: 84 Resp: 73731

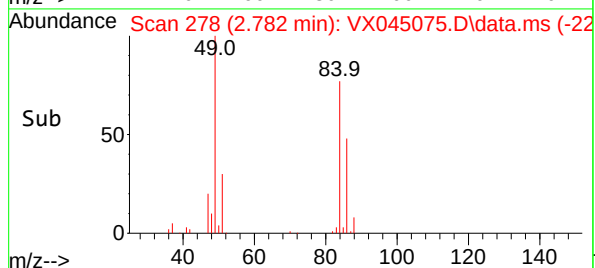
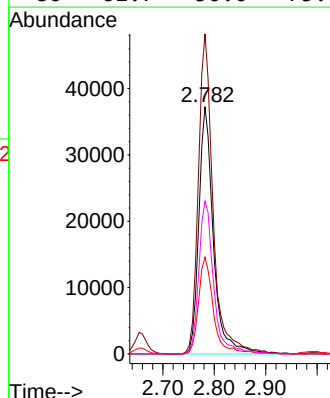
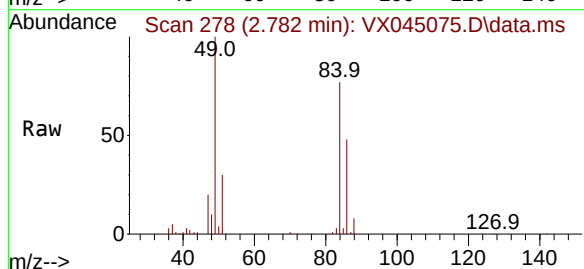
Ion Ratio Lower Upper

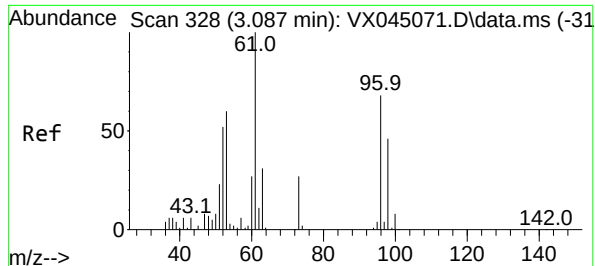
84 100

49 129.3 106.5 159.7

51 39.1 32.1 48.1

86 61.7 50.0 75.0





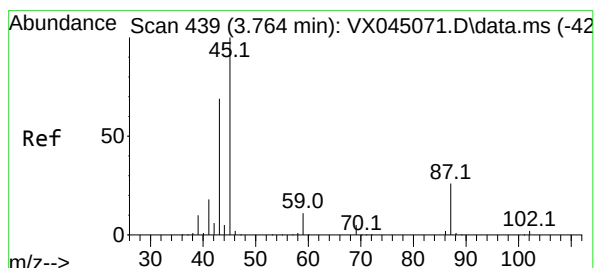
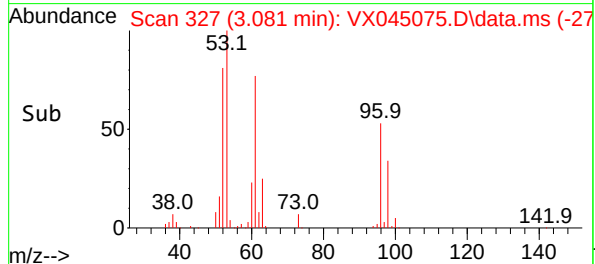
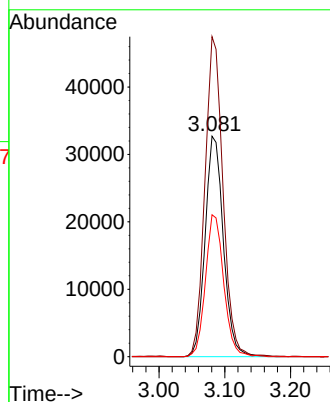
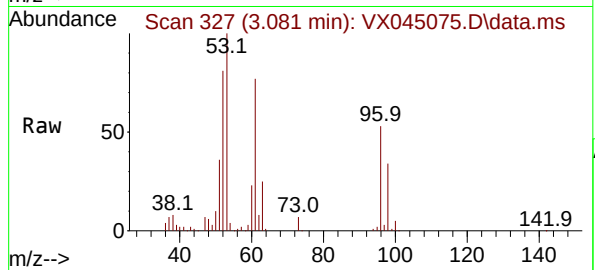
#21
trans-1,2-Dichloroethene
Concen: 51.172 ug/l
RT: 3.081 min Scan# 311
Delta R.T. -0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 96 Resp: 6311
Ion Ratio Lower Upper
96 100
61 145.2 117.0 175.4
98 64.4 53.4 80.2

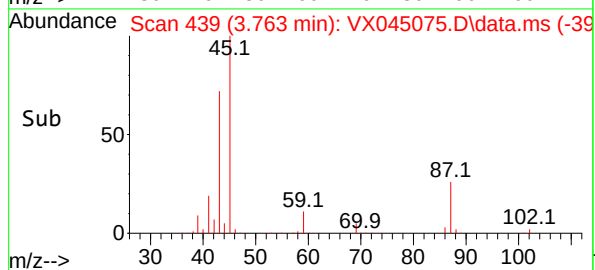
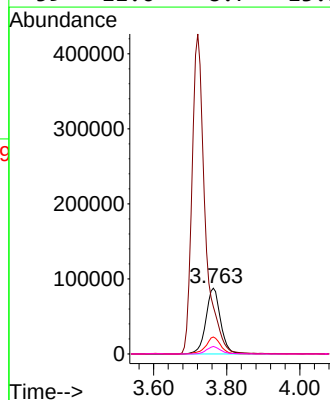
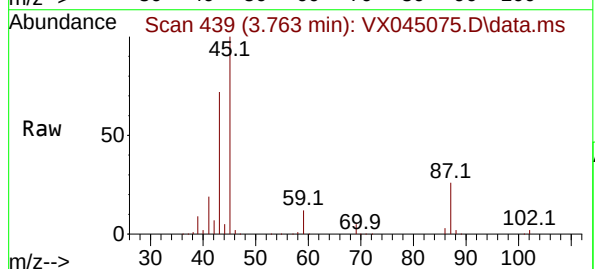
Manual Integrations
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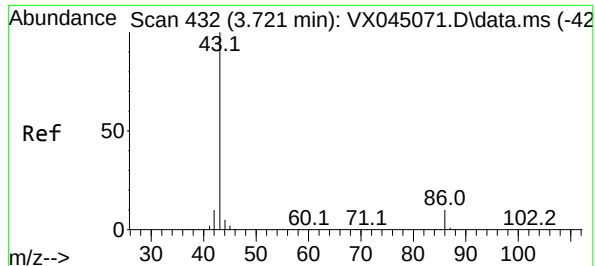
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#22
Diisopropyl ether
Concen: 53.955 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 45 Resp: 243860
Ion Ratio Lower Upper
45 100
43 71.9 54.9 82.3
87 25.8 21.0 31.4
59 11.6 8.7 13.1





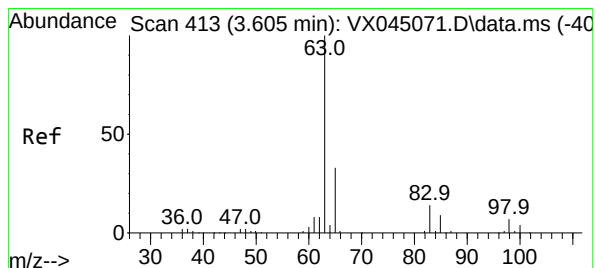
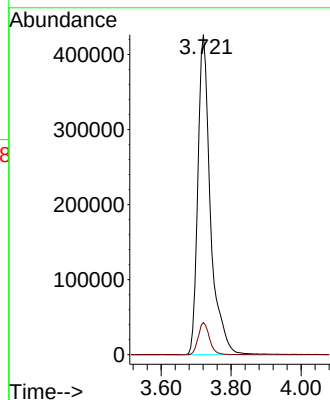
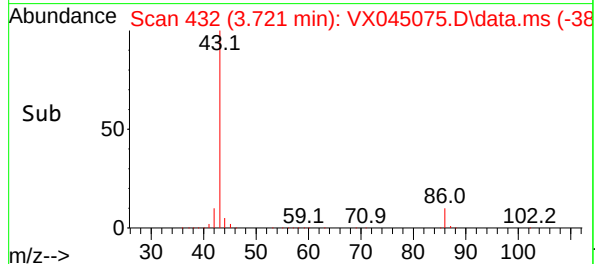
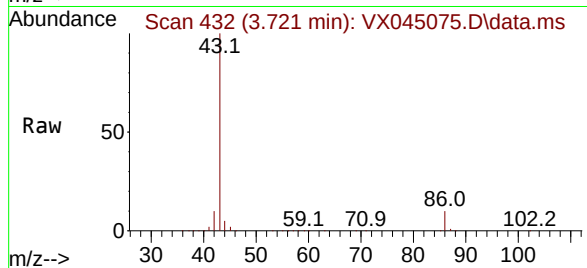
#23
Vinyl Acetate
Concen: 282.313 ug/l
RT: 3.721 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVX022825

Tgt Ion: 43 Resp: 106481
Ion Ratio Lower Upper
43 100
86 10.0 8.1 12.1

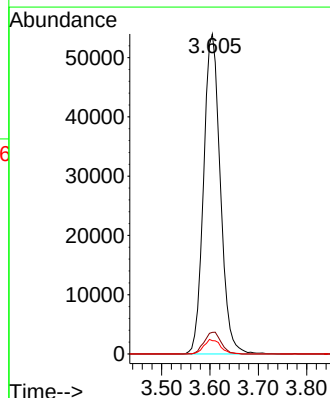
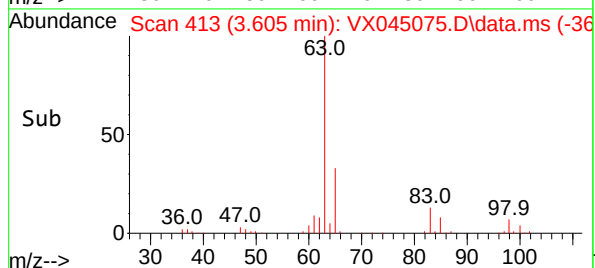
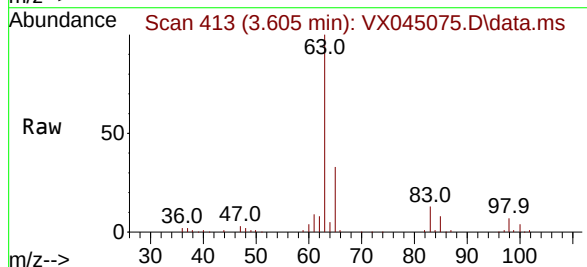
Manual Integrations
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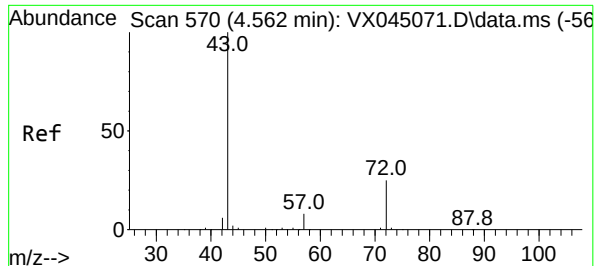
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#24
1,1-Dichloroethane
Concen: 51.190 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

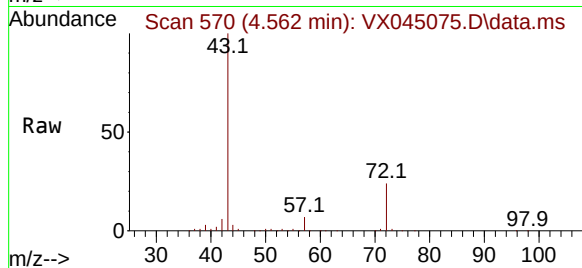
Tgt Ion: 63 Resp: 129666
Ion Ratio Lower Upper
63 100
98 6.8 3.4 10.2
100 4.1 2.1 6.5





#25
2-Butanone
Concen: 264.040 ug/l
RT: 4.562 min Scan# 570
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

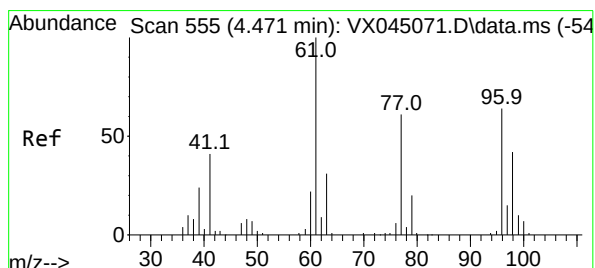
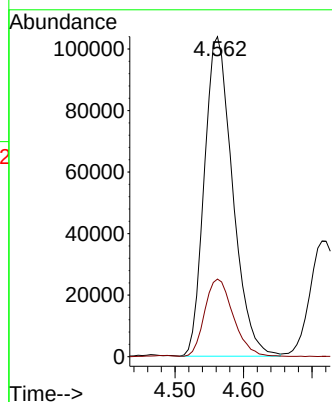
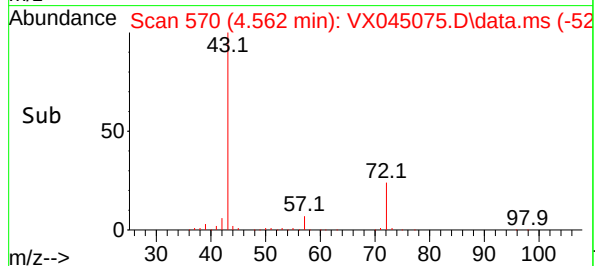
Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825



Tgt Ion: 43 Resp: 29802
Ion Ratio Lower Upper
43 100
72 24.1 20.0 30.0

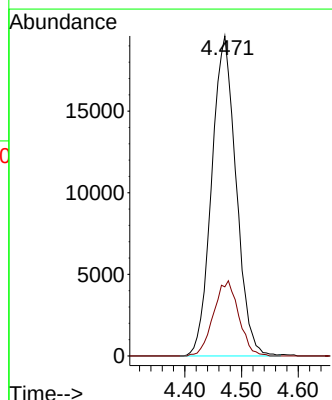
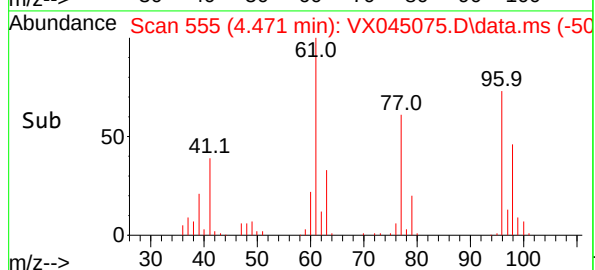
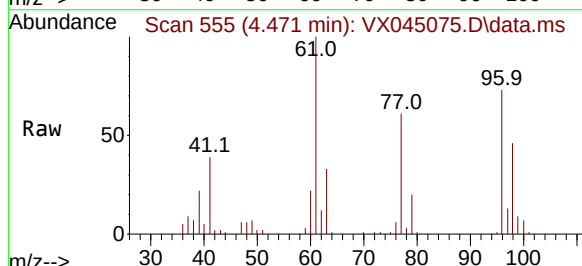
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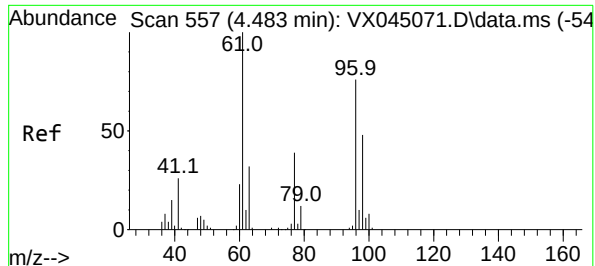
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#26
2,2-Dichloropropane
Concen: 49.401 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 77 Resp: 58694
Ion Ratio Lower Upper
77 100
97 24.2 12.4 37.0





#27

cis-1,2-Dichloroethene

Concen: 51.606 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

Instrument :

MSVOA_X

ClientSampleId :

ICVVX022825

Tgt Ion: 96 Resp: 78570

Ion Ratio Lower Upper

96 100

61 141.2 0.0 283.2

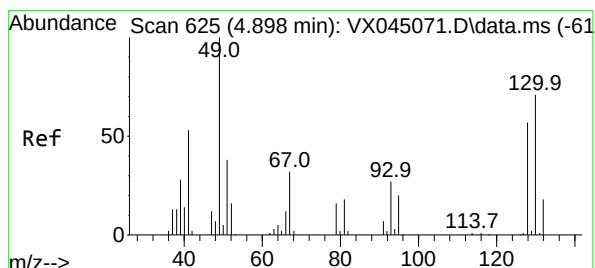
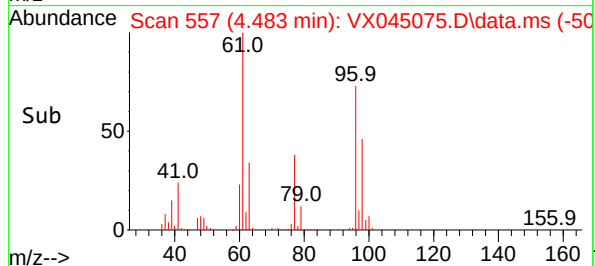
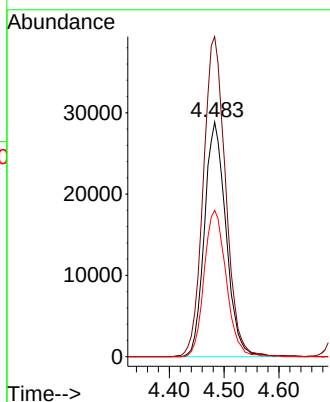
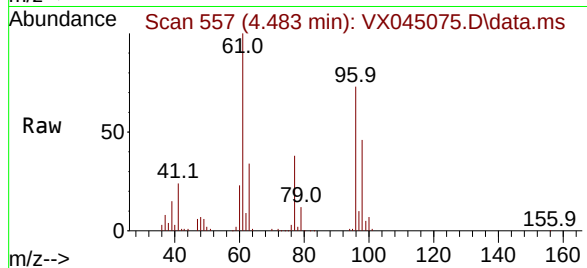
98 63.8 0.0 128.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#28

Bromochloromethane

Concen: 50.399 ug/l

RT: 4.891 min Scan# 624

Delta R.T. -0.006 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

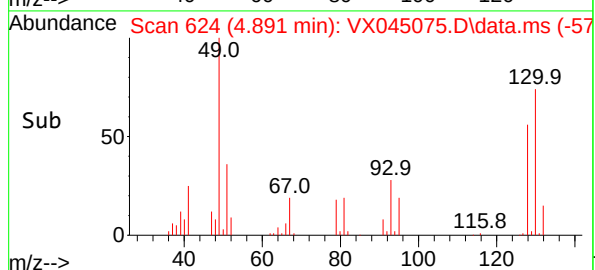
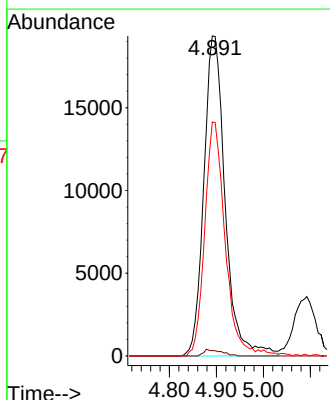
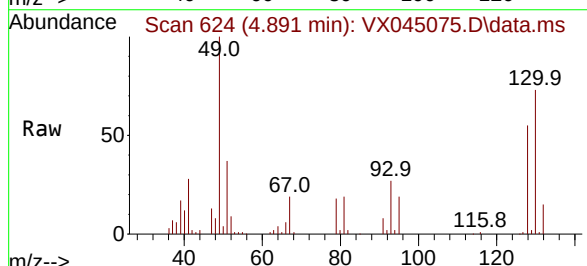
Tgt Ion: 49 Resp: 60849

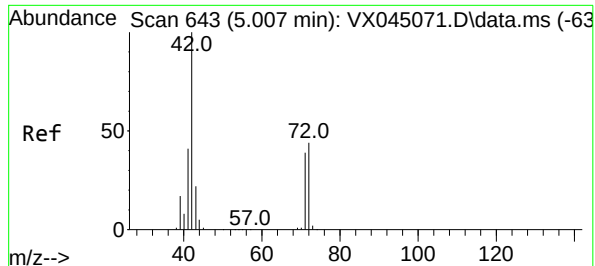
Ion Ratio Lower Upper

49 100

129 1.7 0.0 3.4

130 70.0 56.1 84.1





#29

Tetrahydrofuran

Concen: 258.277 ug/l

RT: 5.007 min Scan# 643

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

Instrument :

MSVOA_X

ClientSampleId :

ICVX022825

Tgt Ion: 42 Resp: 19576

Ion Ratio Lower Upper

42 100

72 42.0 34.1 51.1

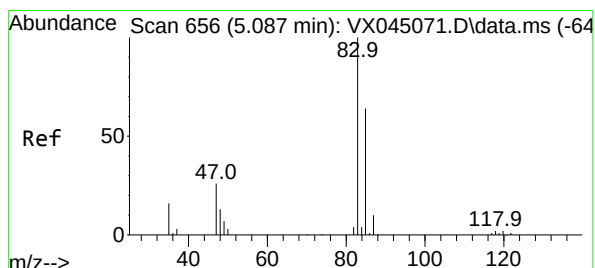
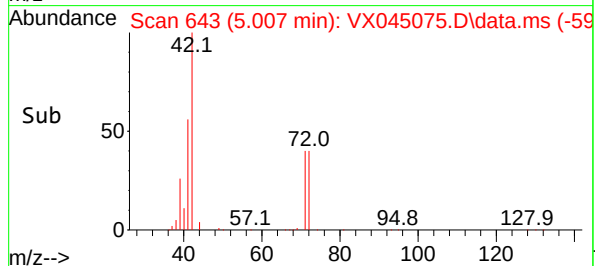
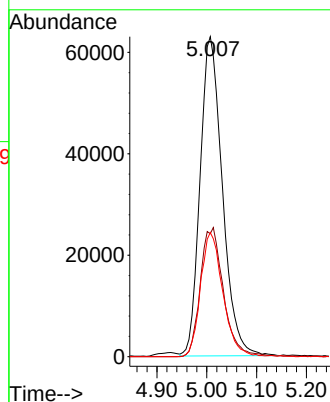
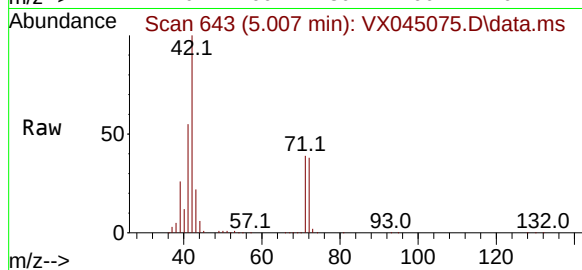
71 38.9 31.4 47.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#30

Chloroform

Concen: 50.236 ug/l

RT: 5.086 min Scan# 656

Delta R.T. -0.000 min

Lab File: VX045075.D

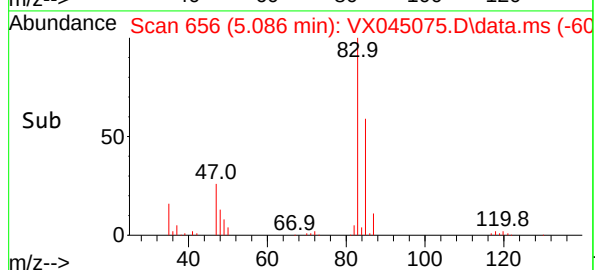
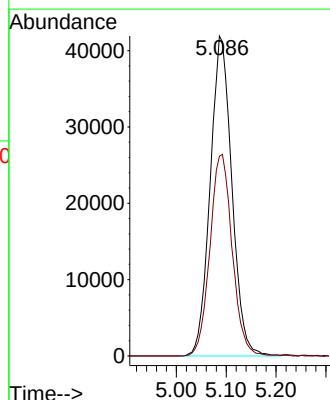
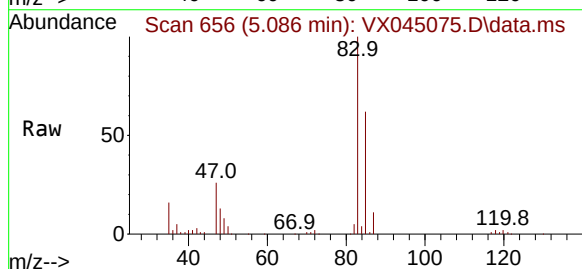
Acq: 28 Feb 2025 04:33

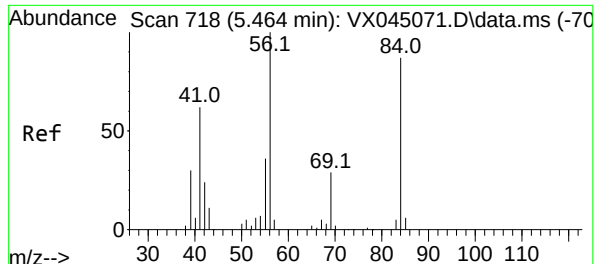
Tgt Ion: 83 Resp: 126437

Ion Ratio Lower Upper

83 100

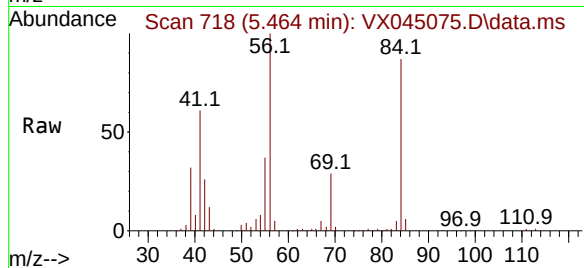
85 62.4 51.4 77.2





#31
Cyclohexane
Concen: 50.158 ug/l
RT: 5.464 min Scan# 718
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

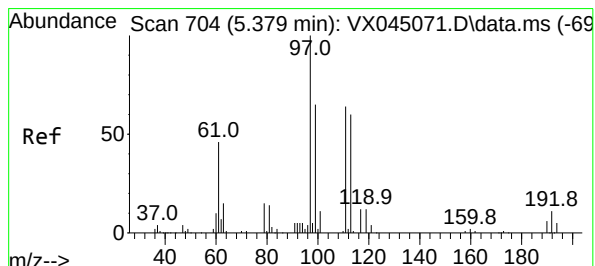
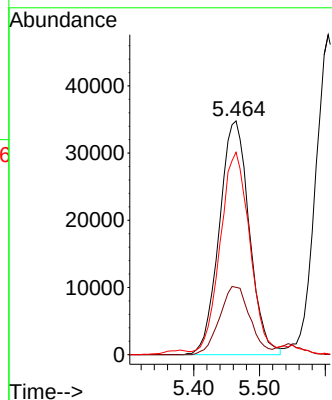
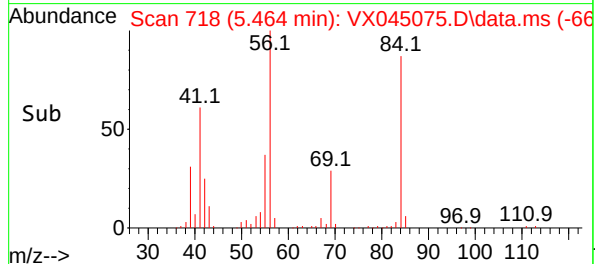
Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825



Tgt Ion: 56 Resp: 110288
Ion Ratio Lower Upper
56 100
69 28.8 23.4 35.2
84 84.6 69.4 104.2

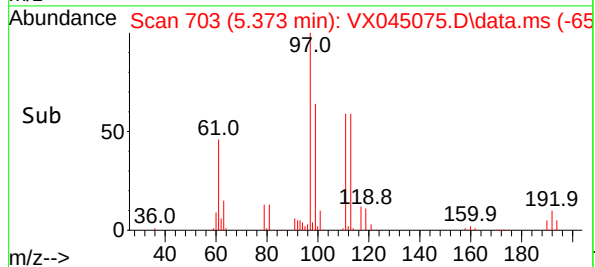
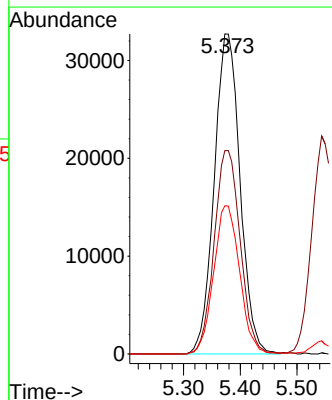
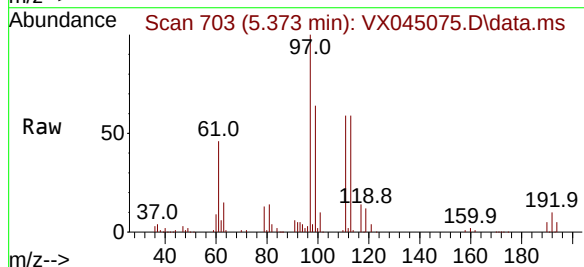
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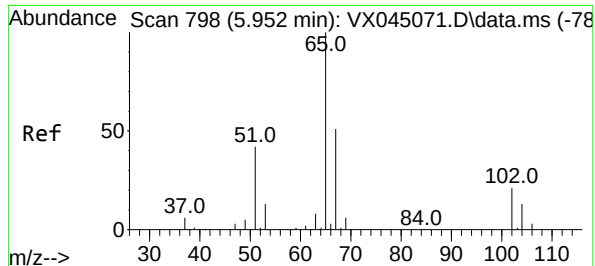
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#32
1,1,1-Trichloroethane
Concen: 50.939 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 97 Resp: 103546
Ion Ratio Lower Upper
97 100
99 64.0 51.6 77.4
61 46.7 38.4 57.6





#33

1,2-Dichloroethane-d4

Concen: 50.297 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

Instrument :

MSVOA_X

ClientSampleId :

ICVX022825

Tgt Ion: 65 Resp: 8128

Ion Ratio Lower Upper

65 100

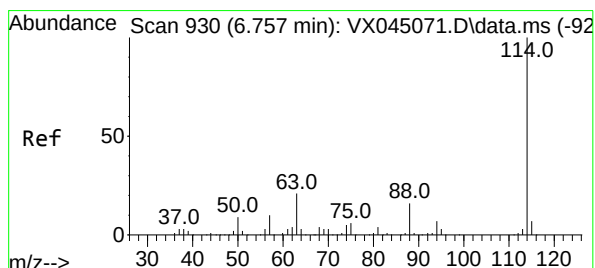
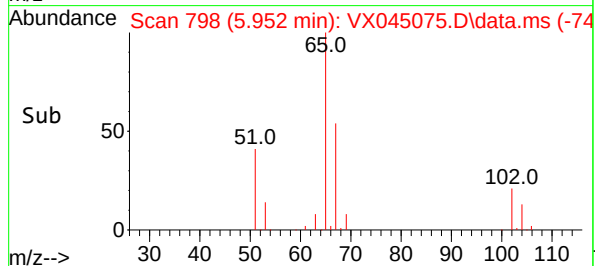
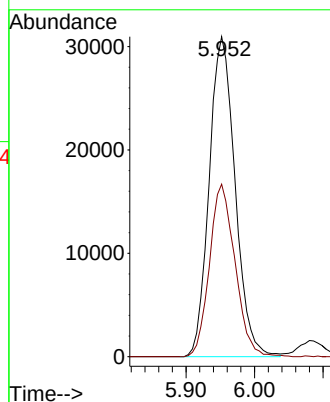
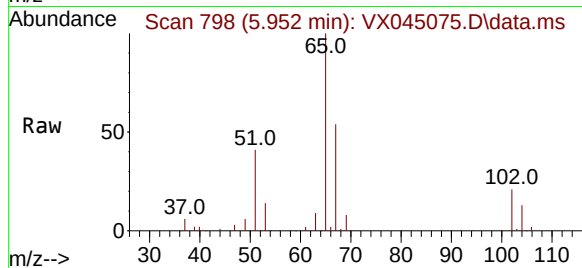
67 53.1 0.0 106.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

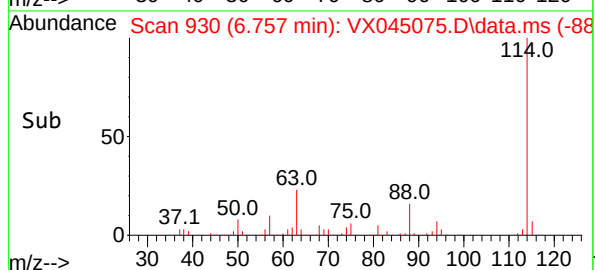
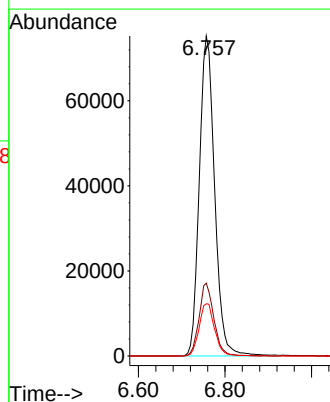
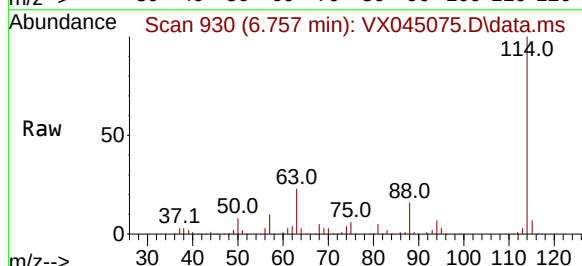
Tgt Ion:114 Resp: 184964

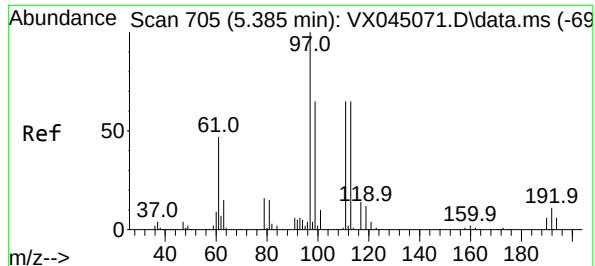
Ion Ratio Lower Upper

114 100

63 22.7 0.0 41.8

88 16.3 0.0 32.8





#35

Dibromofluoromethane

Concen: 50.841 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

Instrument :

MSVOA_X

ClientSampleId :

ICVX022825

Tgt Ion:113 Resp: 62880

Ion Ratio Lower Upper

113 100

111 102.6 81.8 122.6

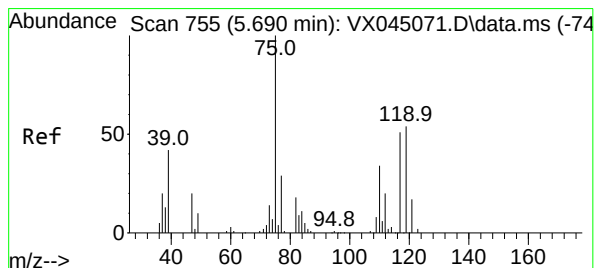
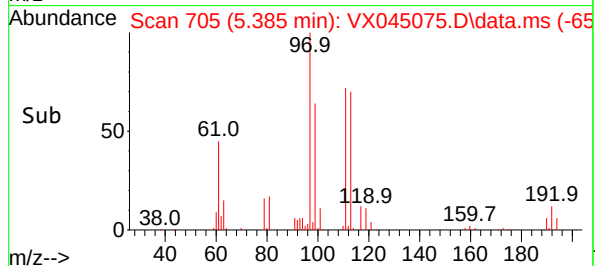
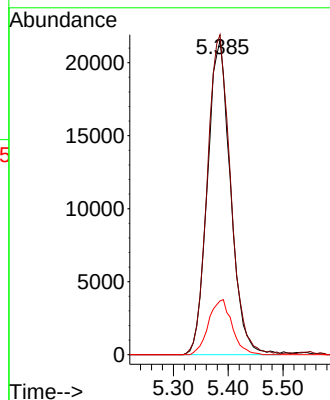
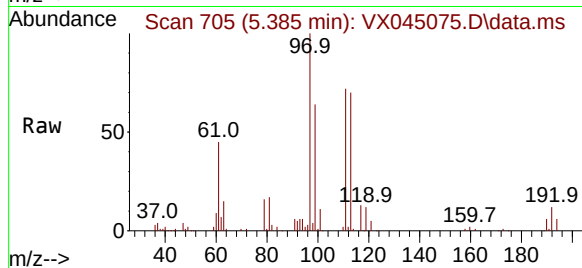
192 17.8 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#36

1,1-Dichloropropene

Concen: 48.770 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

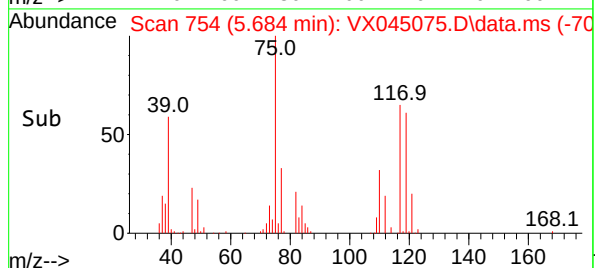
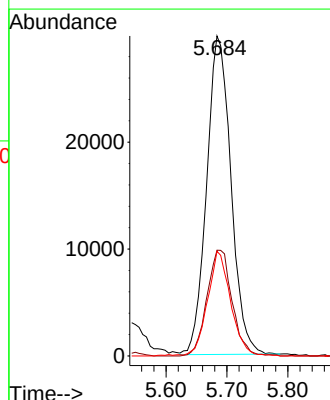
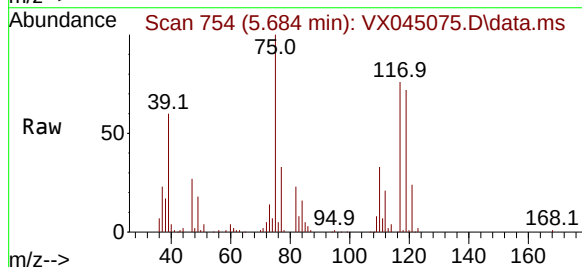
Tgt Ion: 75 Resp: 82722

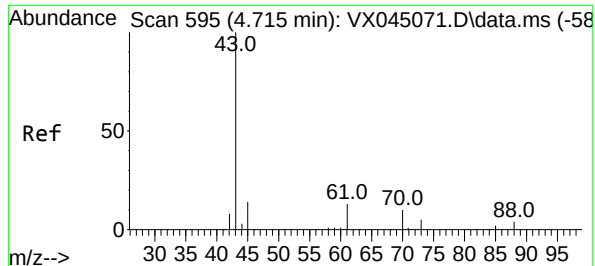
Ion Ratio Lower Upper

75 100

110 34.3 16.9 50.6

77 31.2 24.5 36.7





#37

Ethyl Acetate

Concen: 51.596 ug/l

RT: 4.714 min Scan# 595

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

Instrument :

MSVOA_X

ClientSampleId :

ICVX022825

Tgt Ion: 43 Resp: 112768

Ion Ratio Lower Upper

43 100

61 13.3 10.8 16.2

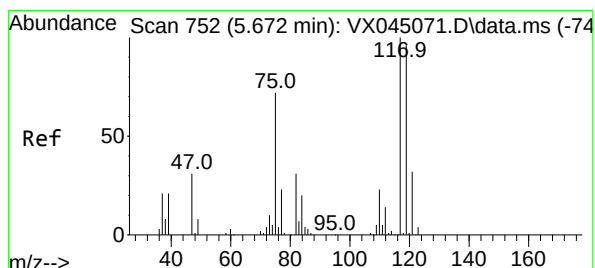
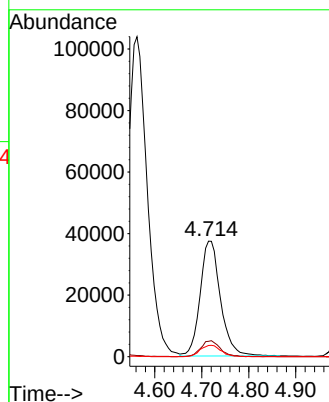
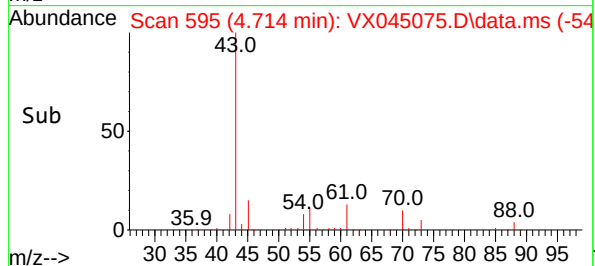
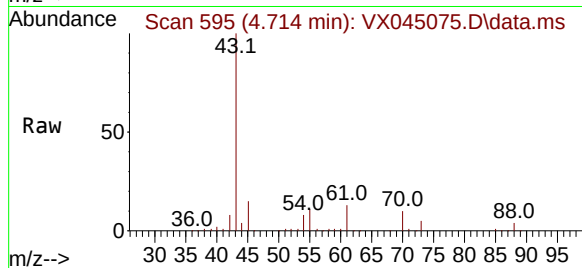
70 10.1 7.7 11.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#38

Carbon Tetrachloride

Concen: 49.425 ug/l

RT: 5.672 min Scan# 752

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

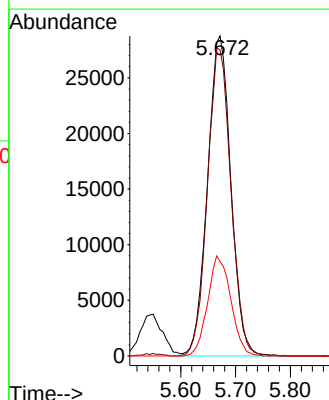
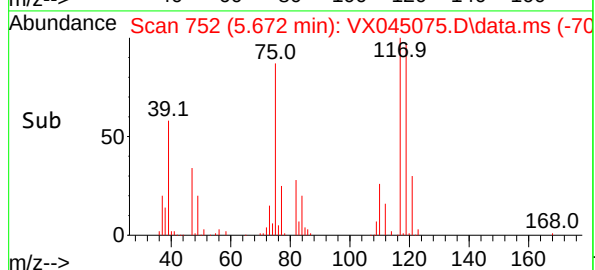
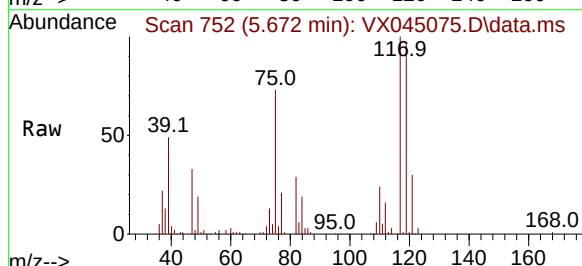
Tgt Ion:117 Resp: 85110

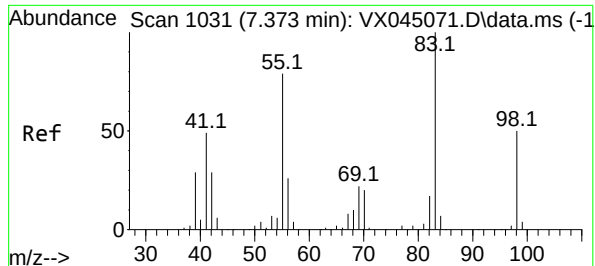
Ion Ratio Lower Upper

117 100

119 95.6 76.7 115.1

121 29.5 25.5 38.3





#39

Methylcyclohexane

Concen: 51.169 ug/l

RT: 7.372 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

Instrument :

MSVOA_X

ClientSampleId :

ICVX022825

Tgt Ion: 83 Resp: 103990

Ion Ratio Lower Upper

83 100

55 80.7 63.0 94.4

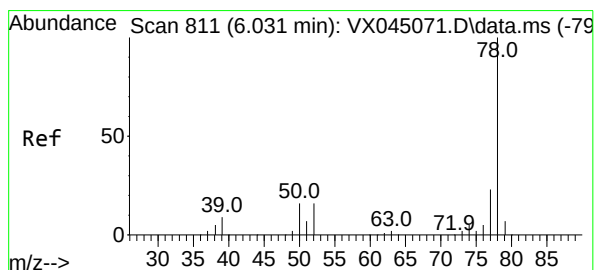
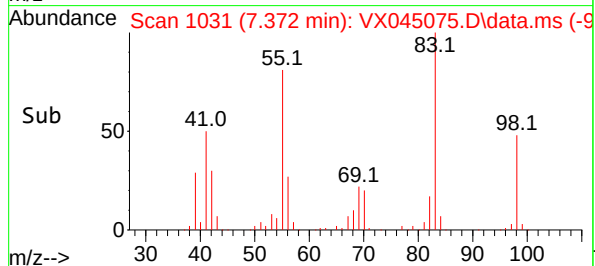
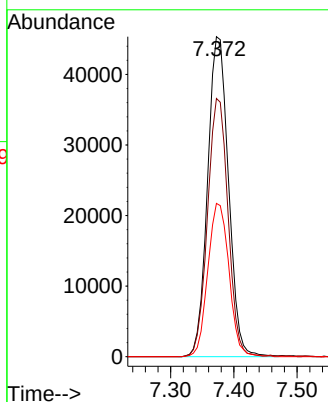
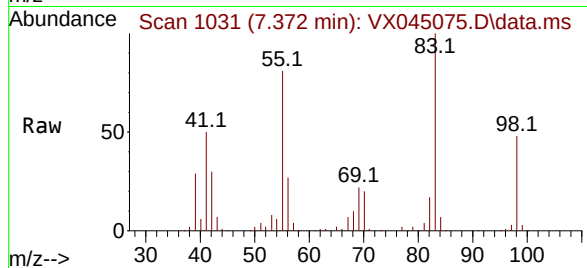
98 47.9 39.7 59.5

Manual Integrations

APPROVED

Reviewed By :John Carbone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#40

Benzene

Concen: 51.195 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX045075.D

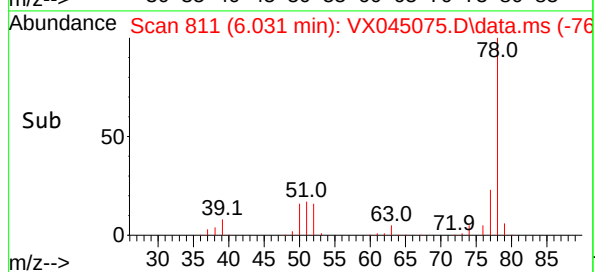
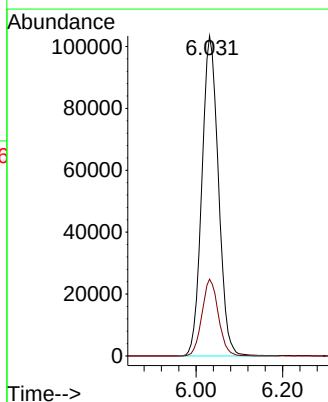
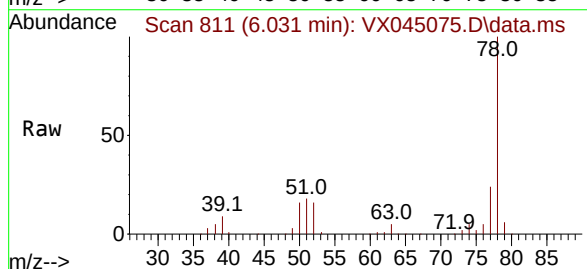
Acq: 28 Feb 2025 04:33

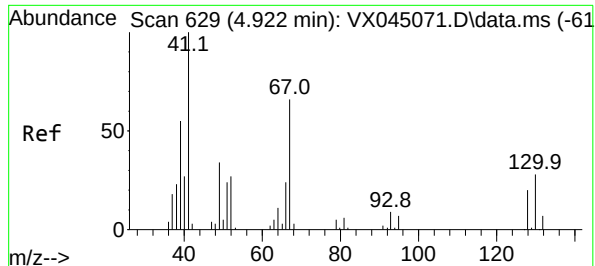
Tgt Ion: 78 Resp: 274206

Ion Ratio Lower Upper

78 100

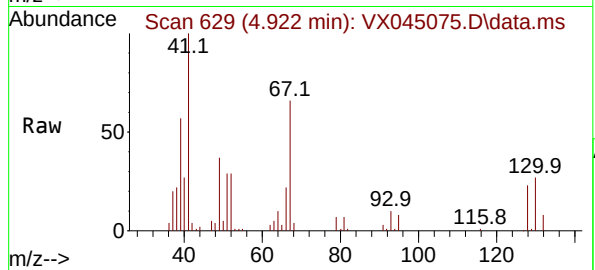
77 24.0 18.8 28.2





#41
Methacrylonitrile
Concen: 53.352 ug/l
RT: 4.922 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

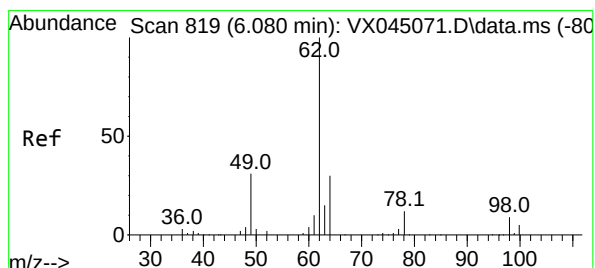
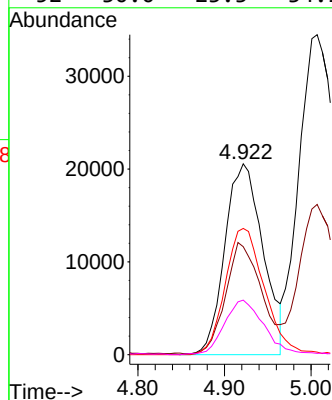
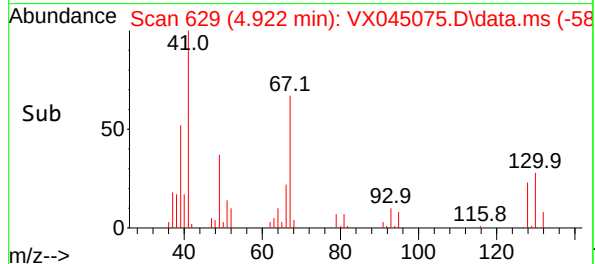
Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825



Tgt Ion: 41 Resp: 6305
Ion Ratio Lower Upper
41 100
39 55.0 44.6 67.0
67 68.1 53.9 80.9
52 30.0 23.3 34.9

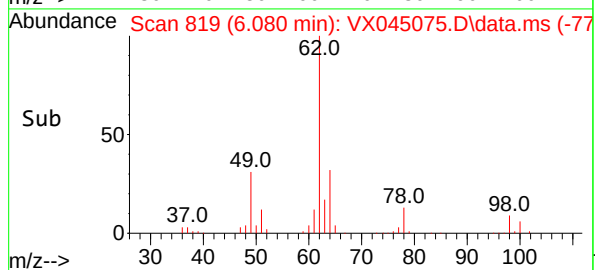
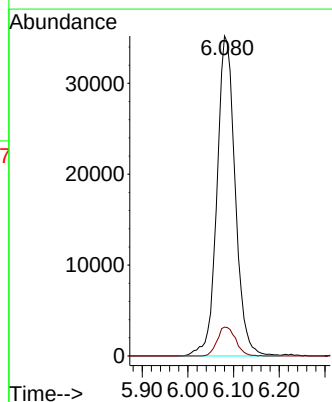
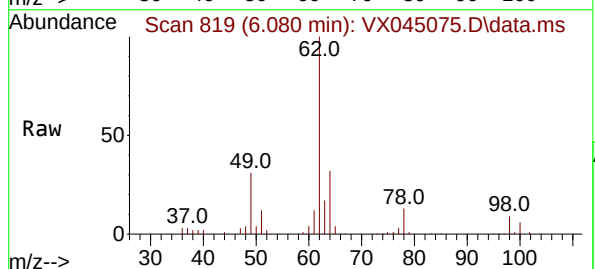
Manual Integrations
APPROVED

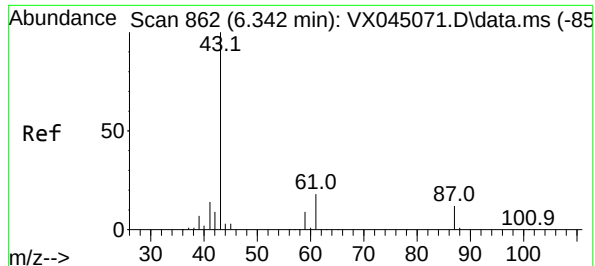
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#42
1,2-Dichloroethane
Concen: 50.718 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 62 Resp: 97821
Ion Ratio Lower Upper
62 100
98 9.1 0.0 18.2





#43

Isopropyl Acetate

Concen: 54.452 ug/l

RT: 6.342 min Scan# 80

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

Instrument :

MSVOA_X

ClientSampleId :

ICVX022825

Tgt Ion: 43 Resp: 17598

Ion Ratio Lower Upper

43

100

61

18.5

87

11.8

14.9

9.4

22.3

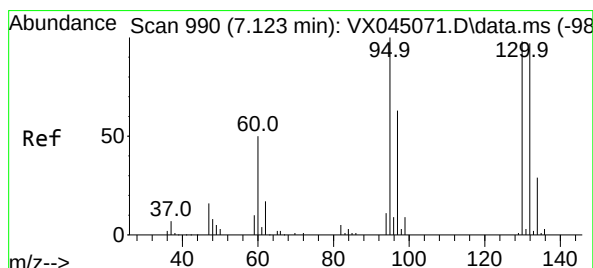
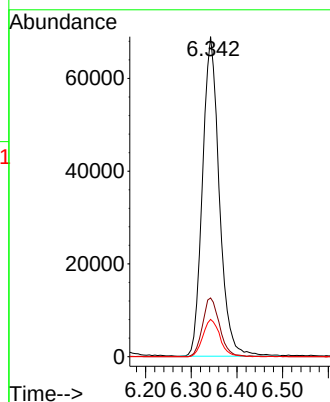
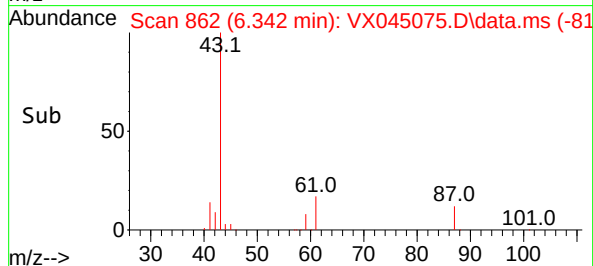
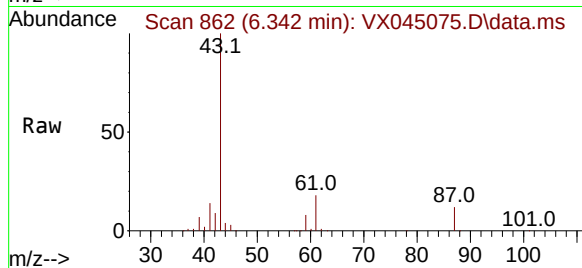
14.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#44

Trichloroethene

Concen: 48.924 ug/l

RT: 7.122 min Scan# 990

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

Tgt Ion:130 Resp: 61530

Ion Ratio Lower Upper

130

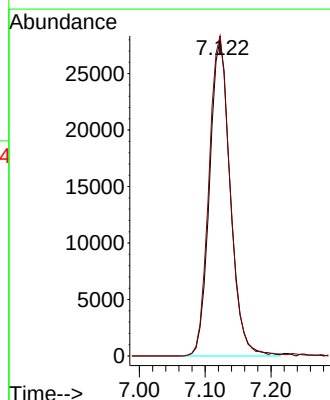
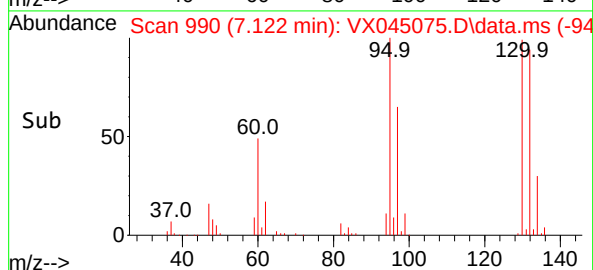
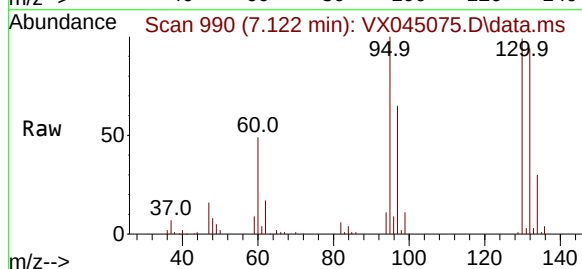
100

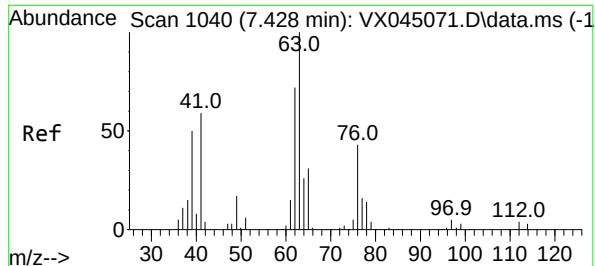
95

101.1

0.0

205.0





#45

1,2-Dichloropropane

Concen: 51.086 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

Instrument :

MSVOA_X

ClientSampleId :

ICVX022825

Tgt Ion: 63 Resp: 70350

Ion Ratio Lower Upper

63 100

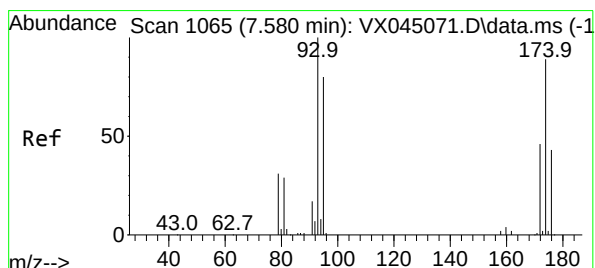
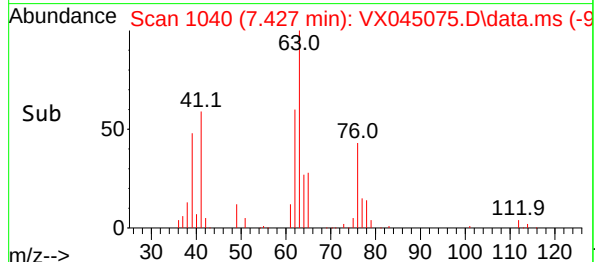
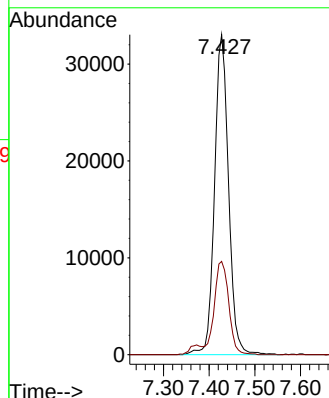
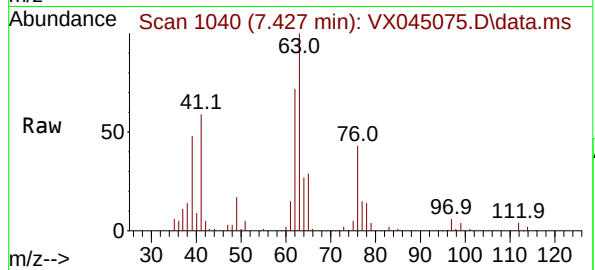
65 29.2 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#46

Dibromomethane

Concen: 51.661 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

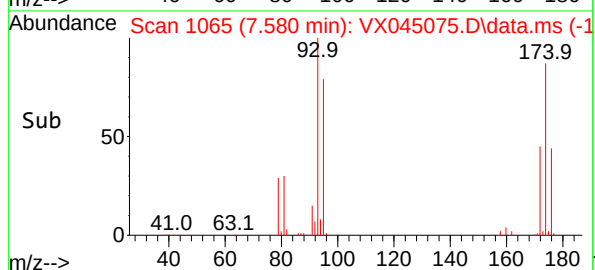
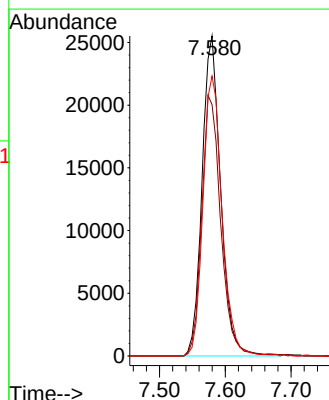
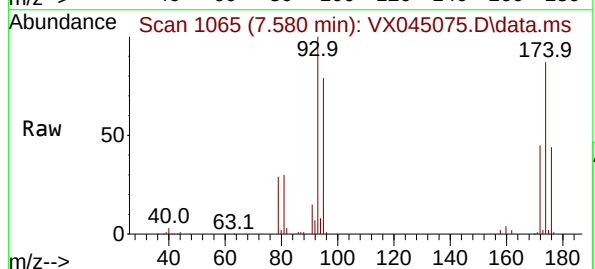
Tgt Ion: 93 Resp: 50284

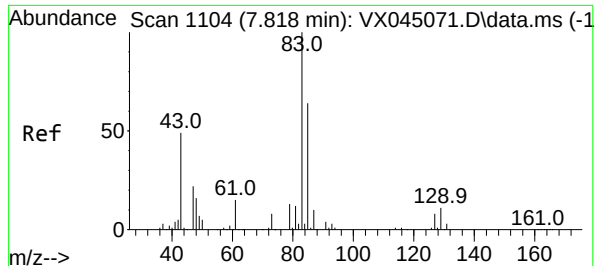
Ion Ratio Lower Upper

93 100

95 82.8 65.8 98.8

174 89.4 72.2 108.2





#47

Bromodichloromethane

Concen: 50.930 ug/l

RT: 7.817 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

Instrument :

MSVOA_X

ClientSampleId :

ICVX022825

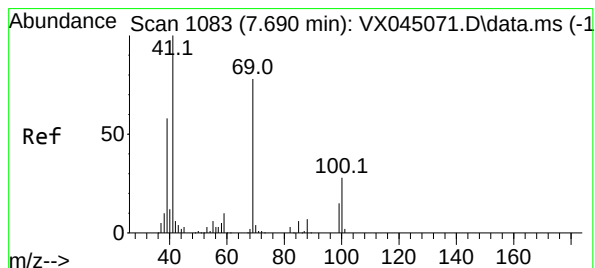
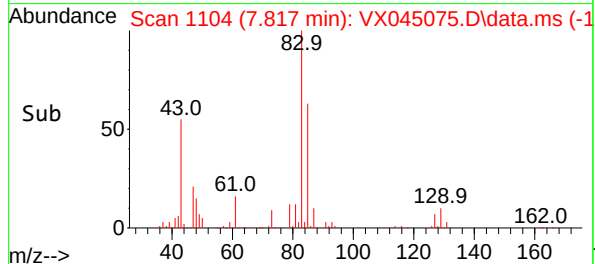
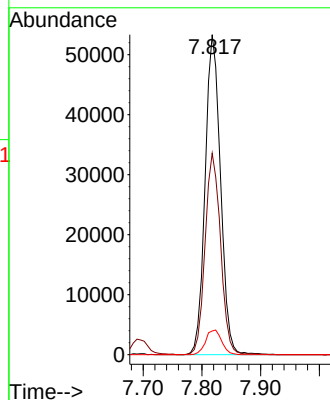
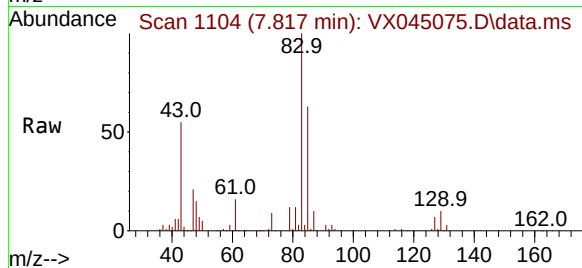
Tgt Ion:	83	Resp:	97230
Ion	Ratio	Lower	Upper
83	100		
85	63.0	51.1	76.7
127	7.4	6.4	9.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#48

Methyl methacrylate

Concen: 54.016 ug/l

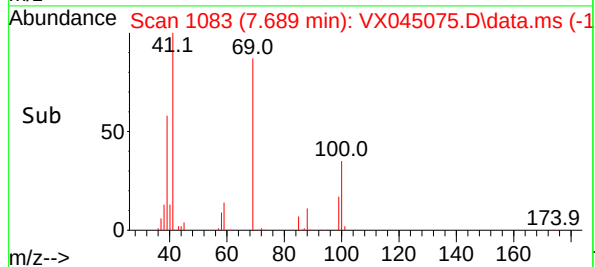
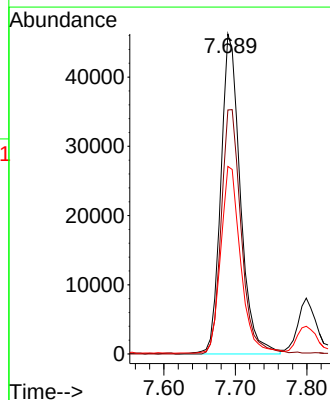
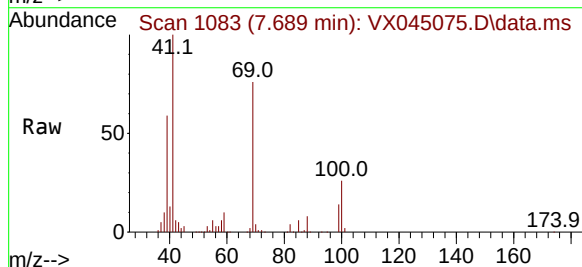
RT: 7.689 min Scan# 1083

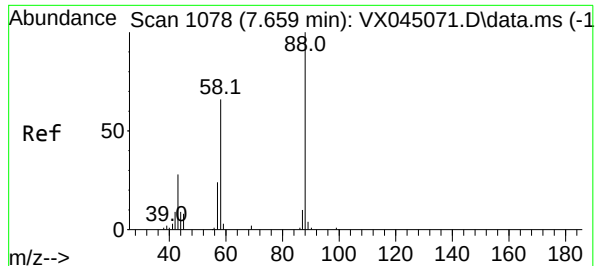
Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

Tgt Ion:	41	Resp:	87582
Ion	Ratio	Lower	Upper
41	100		
69	78.5	63.0	94.6
39	59.4	47.5	71.3





#49

1,4-Dioxane

Concen: 1049.007 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. 0.006 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

Instrument :

MSVOA_X

ClientSampleId :

ICVX022825

Tgt Ion: 88 Resp: 35878

Ion Ratio Lower Upper

88 100

43 34.3 28.7 43.1

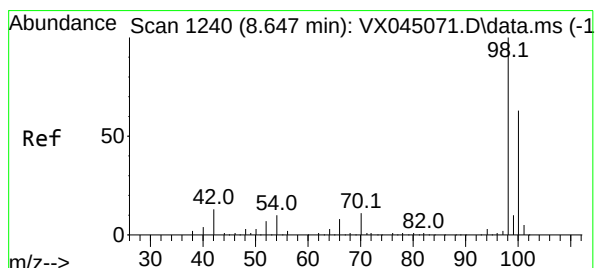
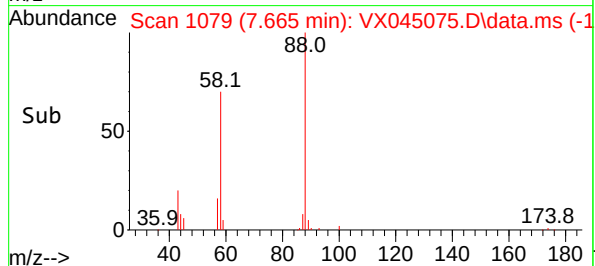
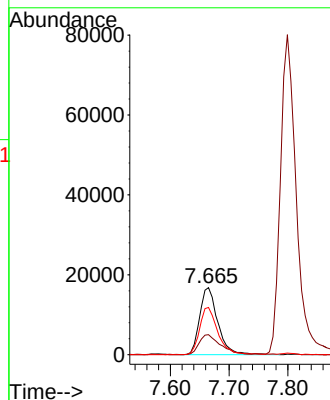
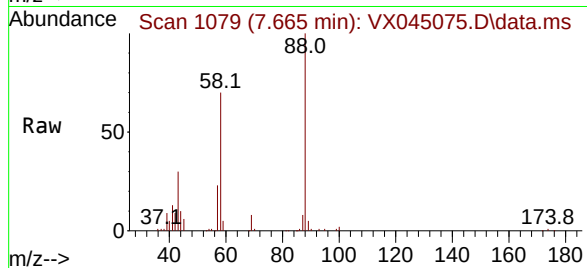
58 70.8 55.8 83.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#50

Toluene-d8

Concen: 50.364 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX045075.D

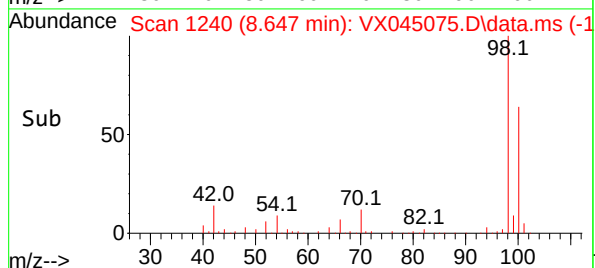
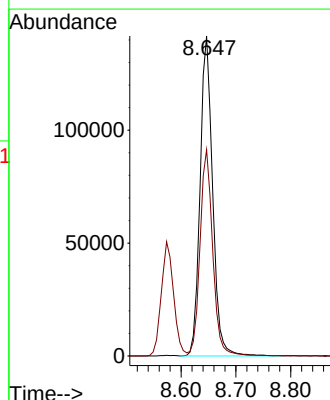
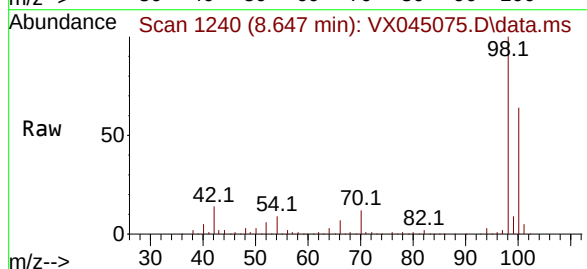
Acq: 28 Feb 2025 04:33

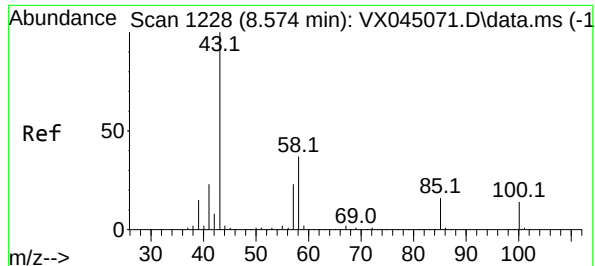
Tgt Ion: 98 Resp: 225823

Ion Ratio Lower Upper

98 100

100 65.6 52.0 78.0





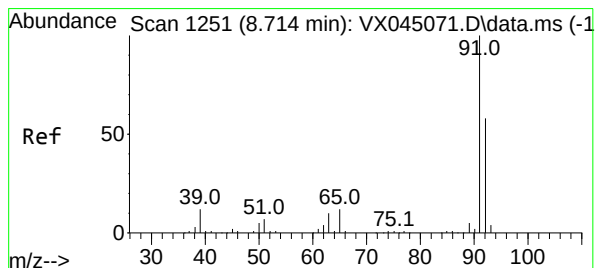
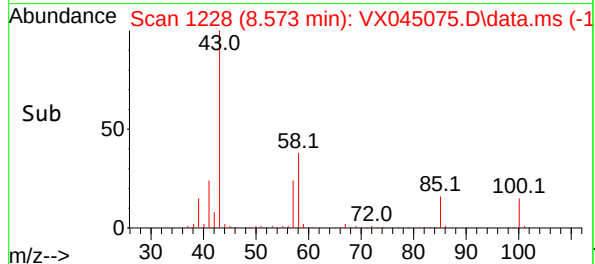
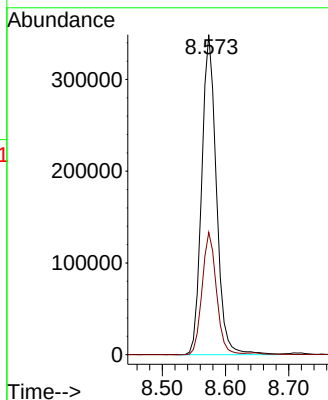
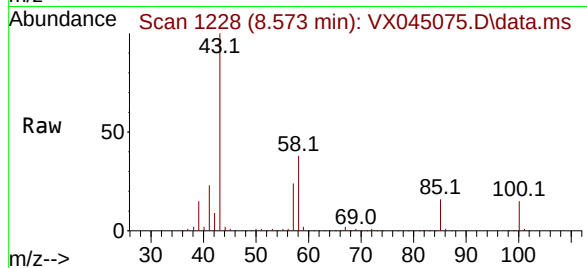
#51
4-Methyl-2-Pentanone
Concen: 259.995 ug/l
RT: 8.573 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 43 Resp: 56419
Ion Ratio Lower Upper
43 100
58 37.3 29.2 43.8

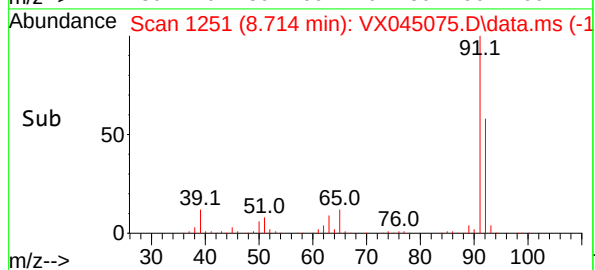
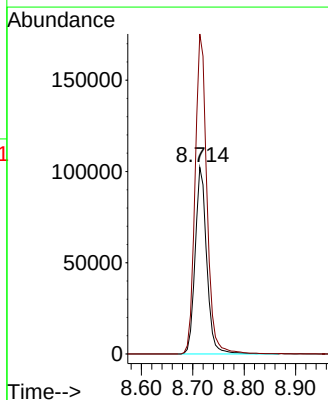
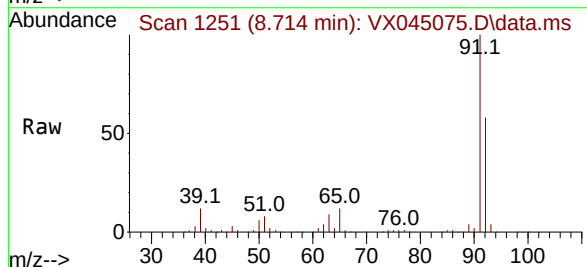
Manual Integrations
APPROVED

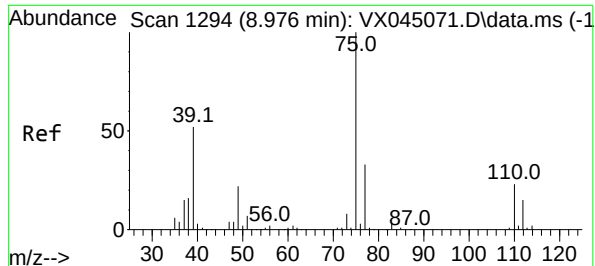
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#52
Toluene
Concen: 51.020 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 92 Resp: 160331
Ion Ratio Lower Upper
92 100
91 175.1 138.9 208.3





#53

t-1,3-Dichloropropene

Concen: 54.247 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

Instrument :

MSVOA_X

ClientSampleId :

ICVX022825

Tgt Ion: 75 Resp: 86584

Ion Ratio Lower Upper

75 100

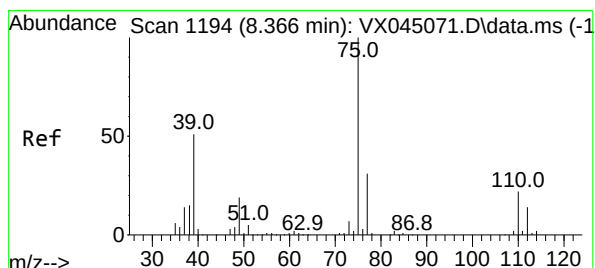
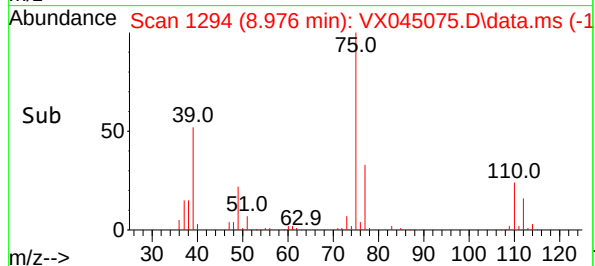
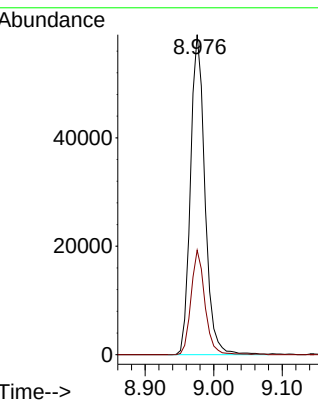
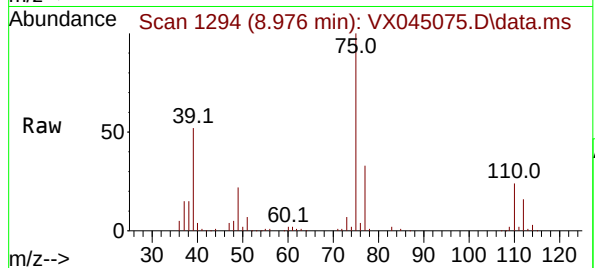
77 32.7 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#54

cis-1,3-Dichloropropene

Concen: 52.732 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

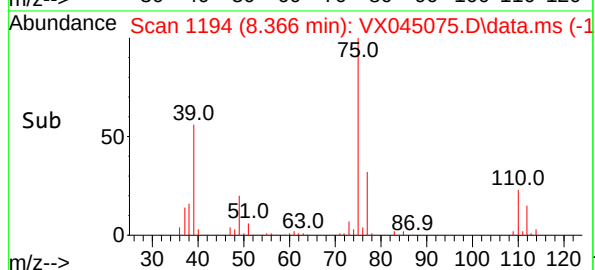
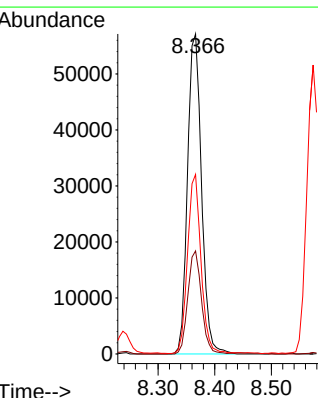
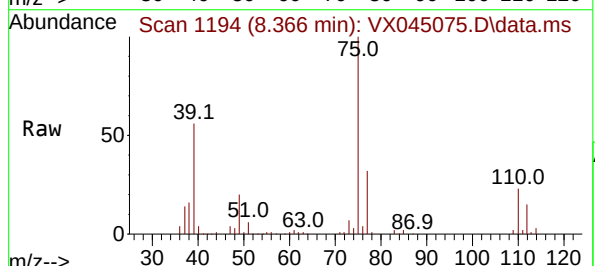
Tgt Ion: 75 Resp: 98146

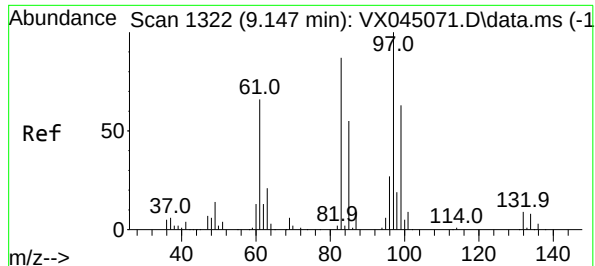
Ion Ratio Lower Upper

75 100

77 32.2 24.7 37.1

39 56.0 40.7 61.1





#55

1,1,2-Trichloroethane

Concen: 50.232 ug/l

RT: 9.146 min Scan# 1322

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

Instrument :

MSVOA_X

ClientSampleId :

ICVX022825

Tgt Ion: 97 Resp: 6498

Ion Ratio Lower Upper

97 100

83 87.8 69.4 104.2

85 55.6 44.1 66.1

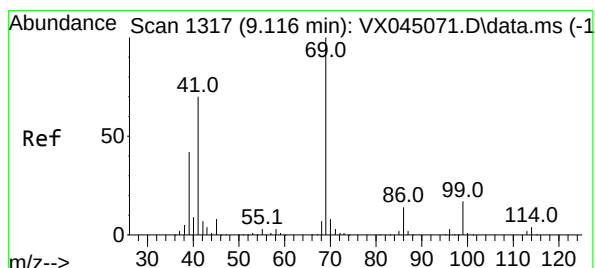
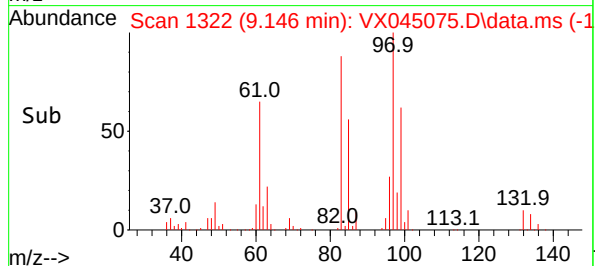
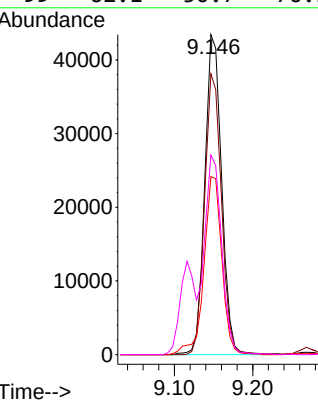
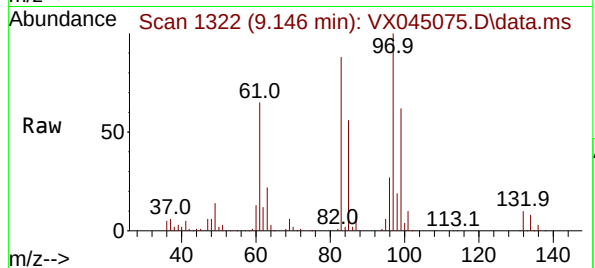
99 62.1 50.7 76.1

Manual Integrations

APPROVED

Reviewed By :John Carbone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#56

Ethyl methacrylate

Concen: 54.109 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

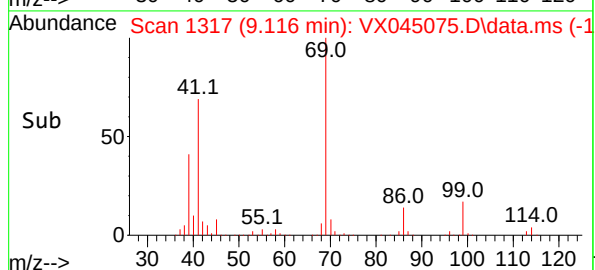
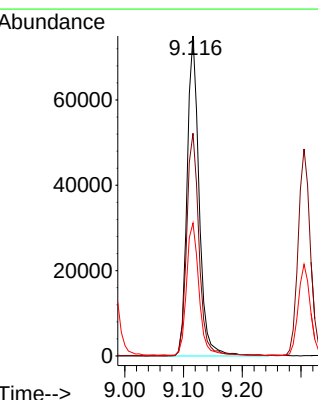
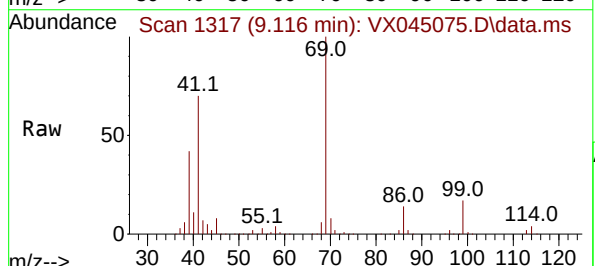
Tgt Ion: 69 Resp: 106405

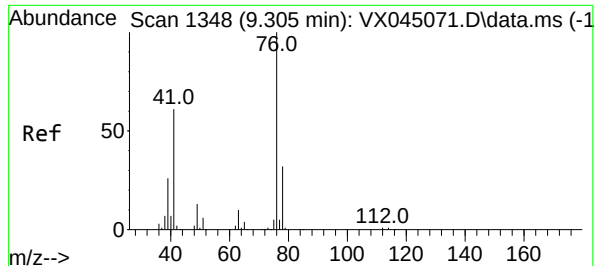
Ion Ratio Lower Upper

69 100

41 71.5 57.0 85.4

39 43.2 34.2 51.4





#57

1,3-Dichloropropane

Concen: 51.312 ug/l

RT: 9.305 min Scan# 11488

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

Instrument :

MSVOA_X

ClientSampleId :

ICVX022825

Tgt Ion: 76 Resp: 11488

Ion Ratio Lower Upper

76 100

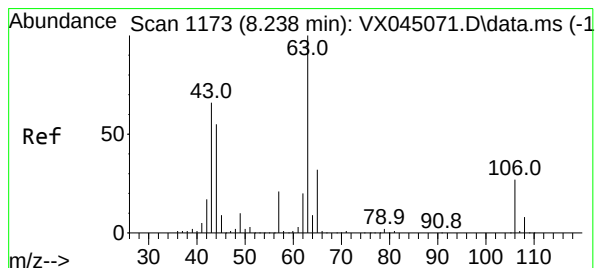
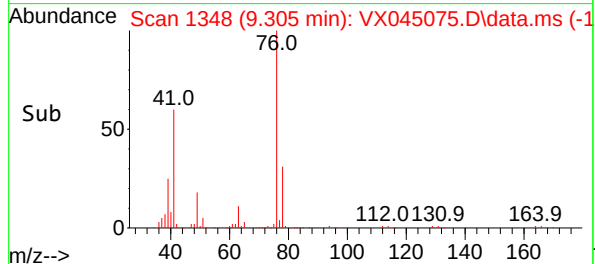
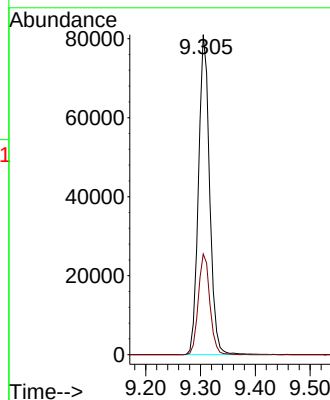
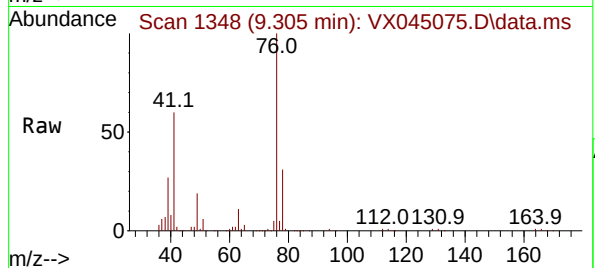
78 32.5 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#58

2-Chloroethyl Vinyl ether

Concen: 275.557 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX045075.D

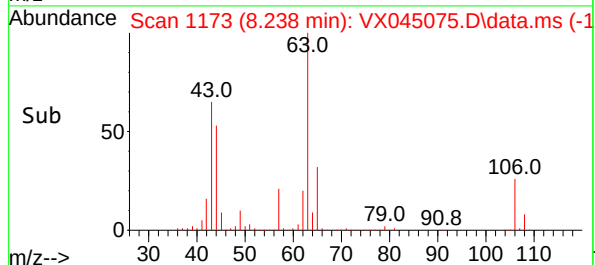
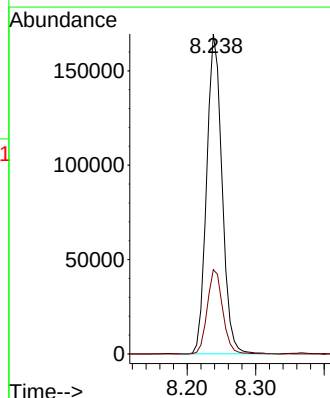
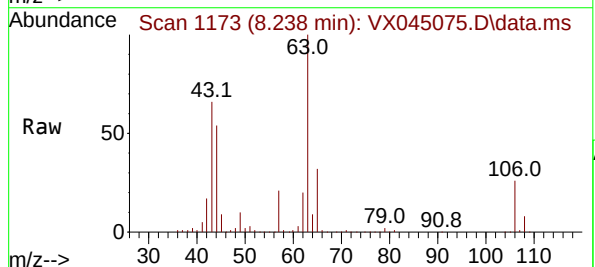
Acq: 28 Feb 2025 04:33

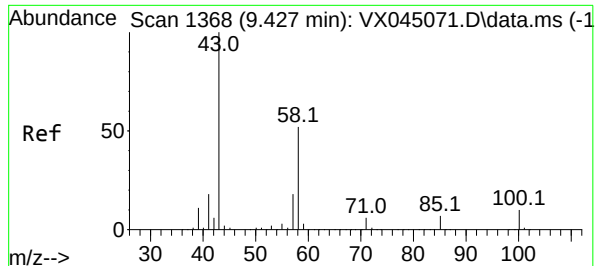
Tgt Ion: 63 Resp: 264335

Ion Ratio Lower Upper

63 100

106 26.5 21.5 32.3





#59

2-Hexanone

Concen: 265.049 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

Instrument :

MSVOA_X

ClientSampleId :

ICVX022825

Tgt Ion: 43 Resp: 41673

Ion Ratio Lower Upper

43 100

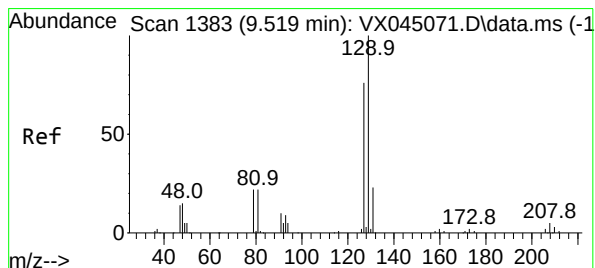
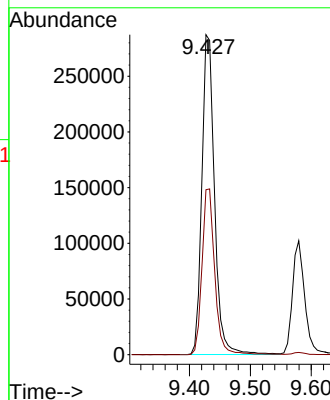
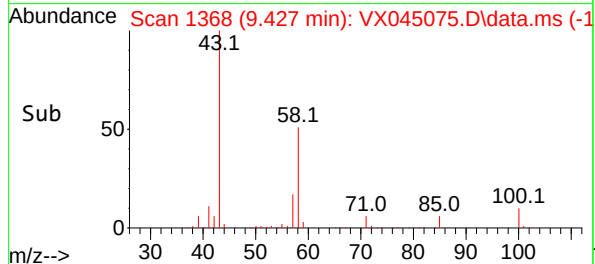
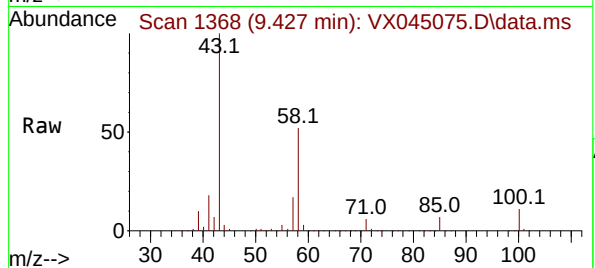
58 52.2 25.9 77.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#60

Dibromochloromethane

Concen: 51.374 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX045075.D

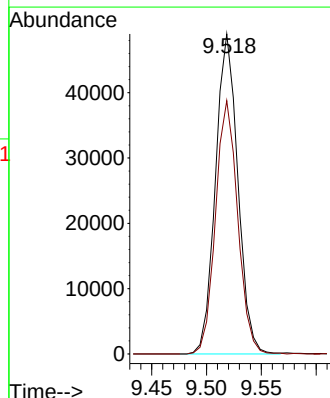
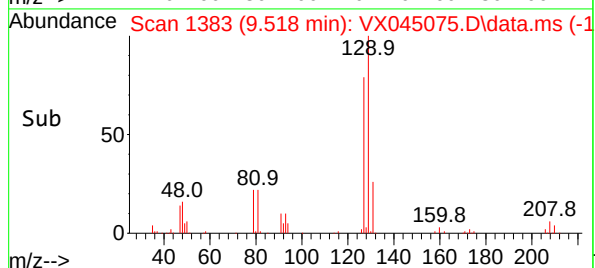
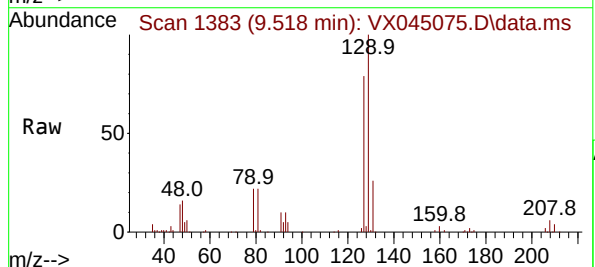
Acq: 28 Feb 2025 04:33

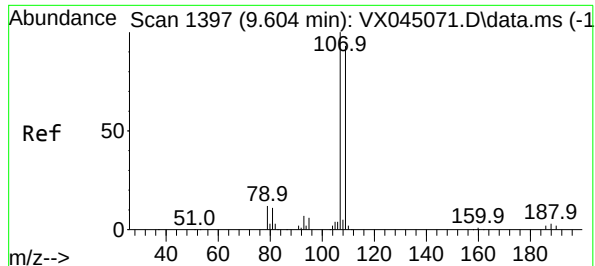
Tgt Ion:129 Resp: 69492

Ion Ratio Lower Upper

129 100

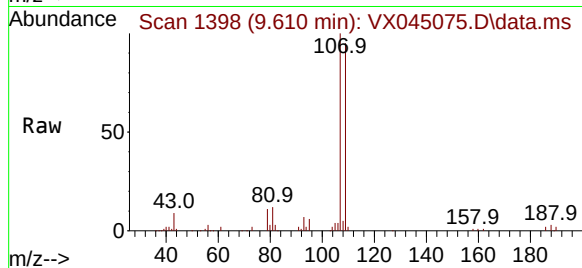
127 78.6 38.5 115.5





#61
1,2-Dibromoethane
Concen: 51.492 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

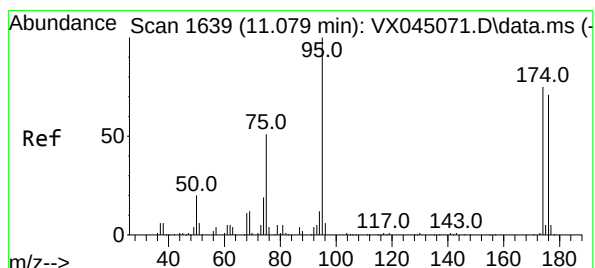
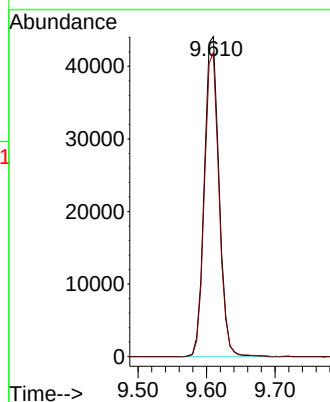
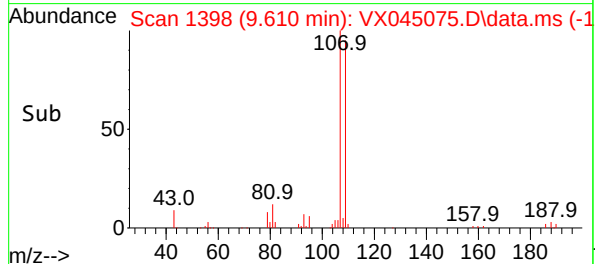
Instrument :
MSVOA_X
ClientSampleId :
ICVX022825



Tgt Ion:107 Resp: 6650
Ion Ratio Lower Upper
107 100
109 93.8 76.1 114.1

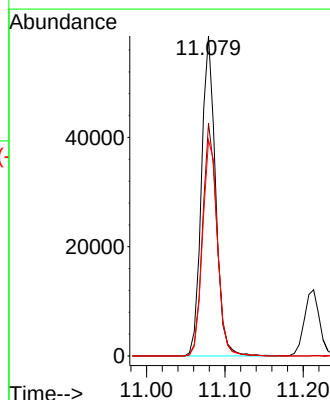
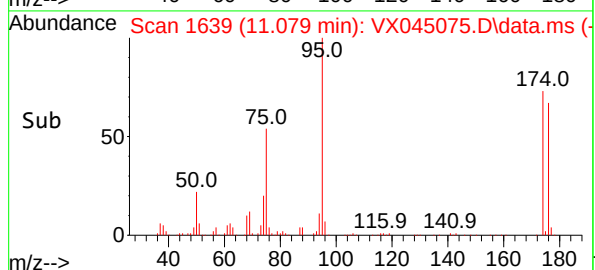
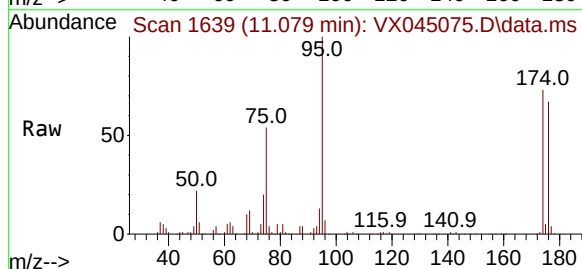
Manual Integrations
APPROVED

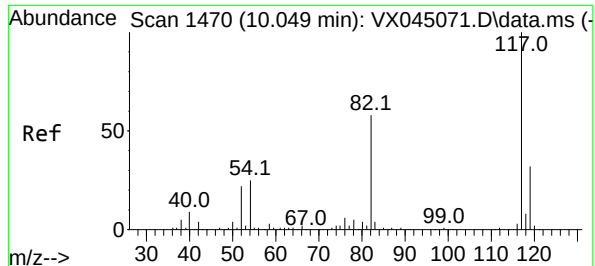
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#62
4-Bromofluorobenzene
Concen: 49.240 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

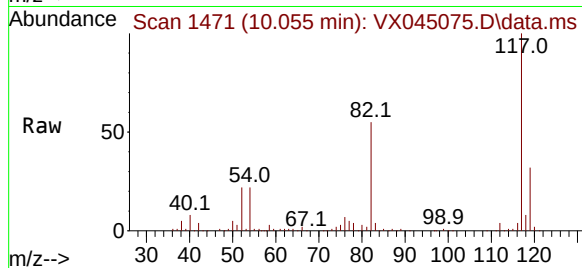
Tgt Ion: 95 Resp: 73162
Ion Ratio Lower Upper
95 100
174 74.0 0.0 148.2
176 71.3 0.0 141.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1470
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

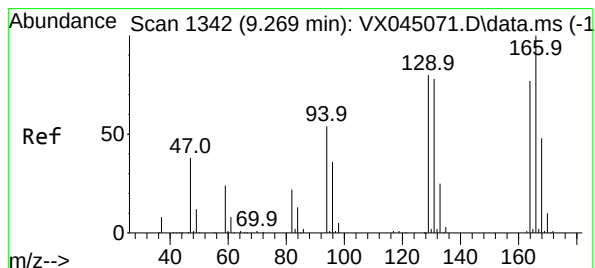
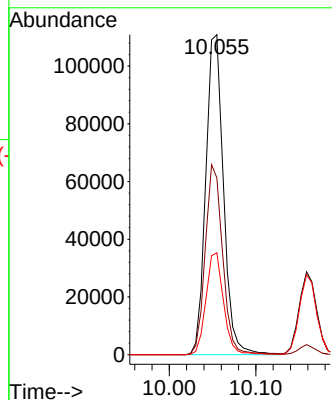
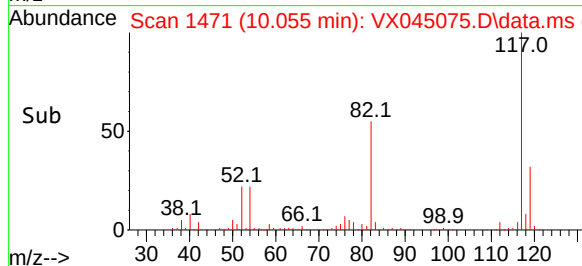
Instrument :
MSVOA_X
ClientSampleId :
ICVX022825



Tgt Ion:117 Resp: 15779
Ion Ratio Lower Upper
117 100
82 55.3 46.3 69.5
119 31.9 25.7 38.5

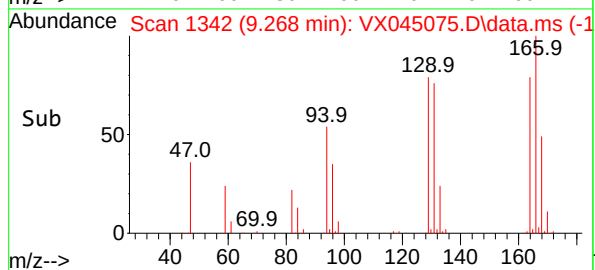
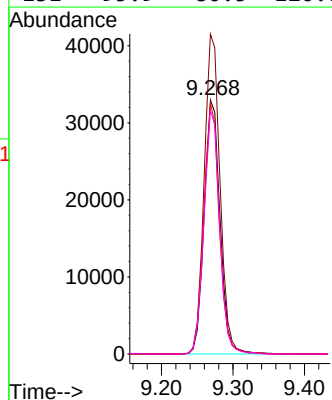
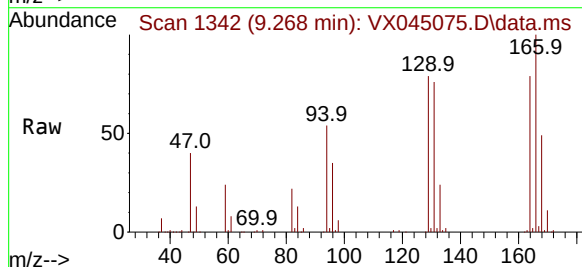
Manual Integrations
APPROVED

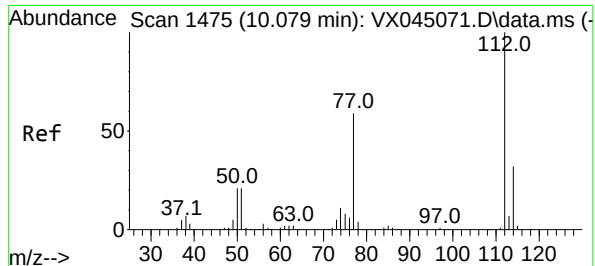
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#64
Tetrachloroethene
Concen: 50.126 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:164 Resp: 50659
Ion Ratio Lower Upper
164 100
166 126.0 103.6 155.4
129 99.0 82.7 124.1
131 95.9 80.5 120.7





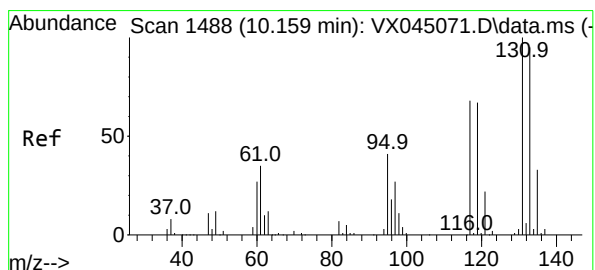
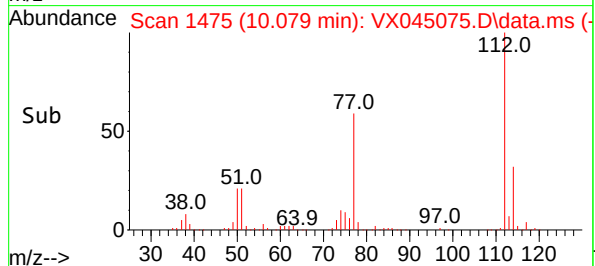
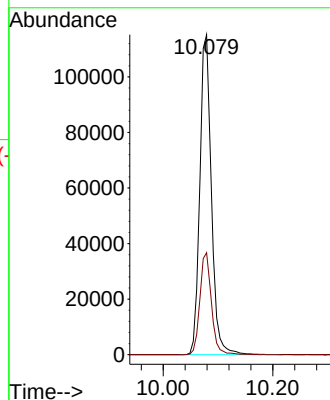
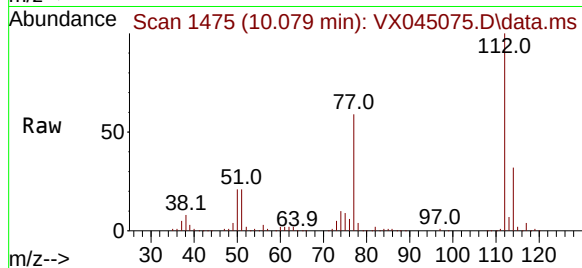
#65
Chlorobenzene
Concen: 50.580 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVX022825

Tgt Ion:112 Resp: 16888
Ion Ratio Lower Upper
112 100
114 31.9 26.0 39.0

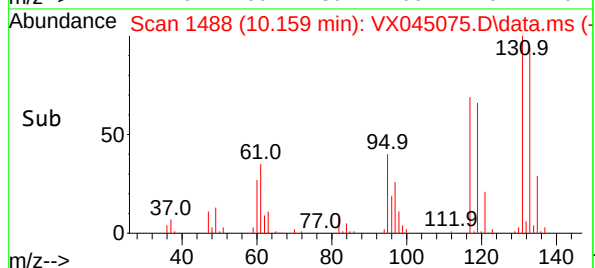
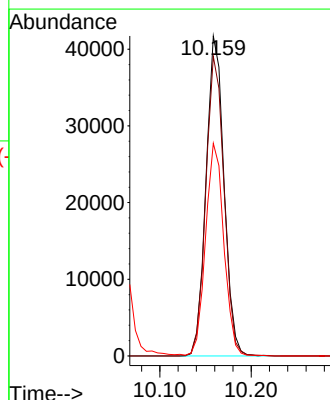
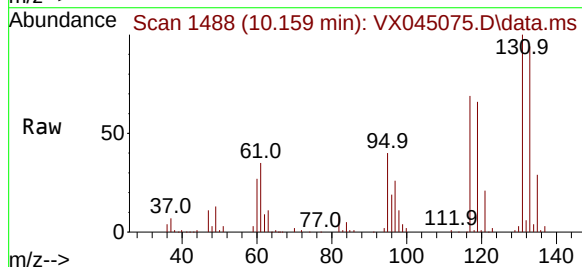
Manual Integrations
APPROVED

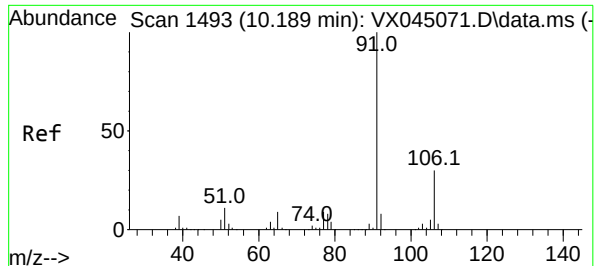
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 51.102 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

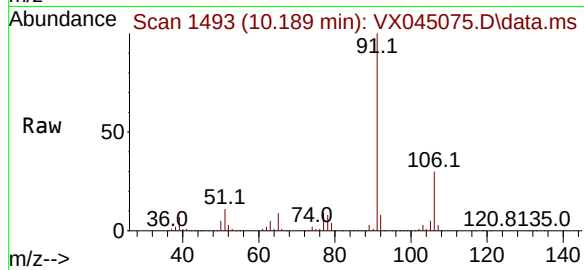
Tgt Ion:131 Resp: 56822
Ion Ratio Lower Upper
131 100
133 94.9 48.6 145.9
119 67.6 33.9 101.7





#67
Ethyl Benzene
Concen: 51.621 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

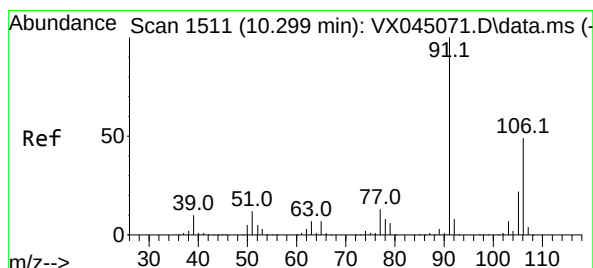
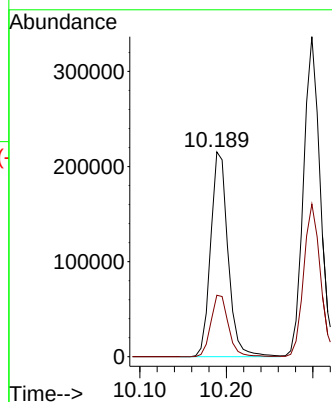
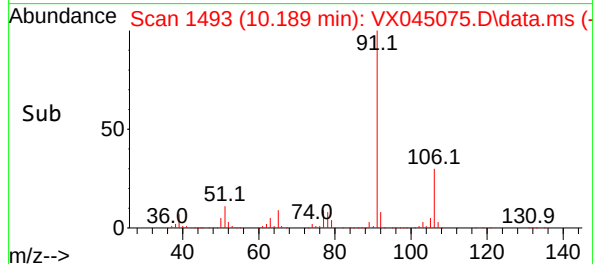
Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825



Tgt Ion: 91 Resp: 300324
Ion Ratio Lower Upper
91 100
106 30.0 23.9 35.9

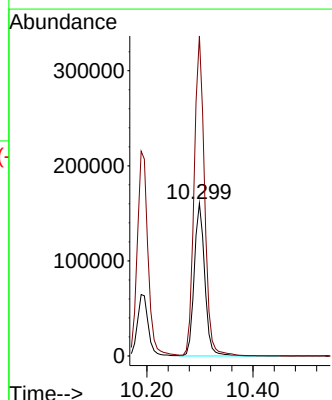
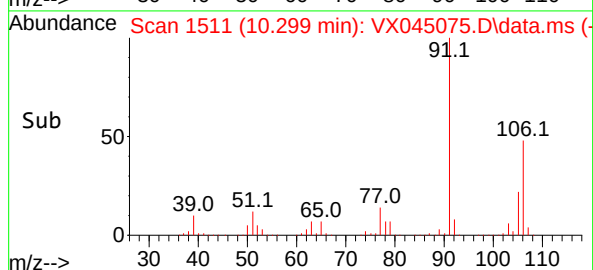
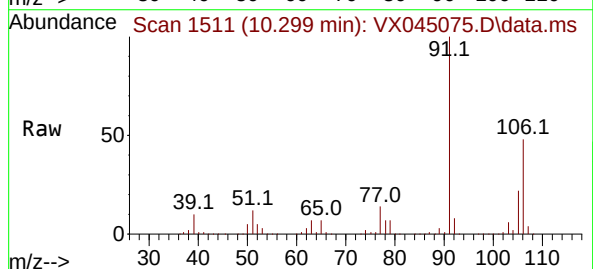
Manual Integrations
APPROVED

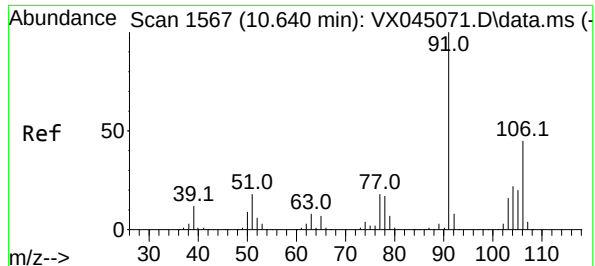
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#68
m/p-Xylenes
Concen: 103.454 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:106 Resp: 220335
Ion Ratio Lower Upper
106 100
91 207.8 165.4 248.0





#69

o-Xylene

Concen: 50.668 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

Instrument :

MSVOA_X

ClientSampleId :

ICVX022825

Tgt Ion:106 Resp: 108830

Ion Ratio Lower Upper

106 100

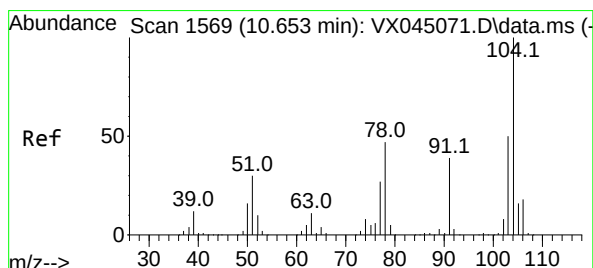
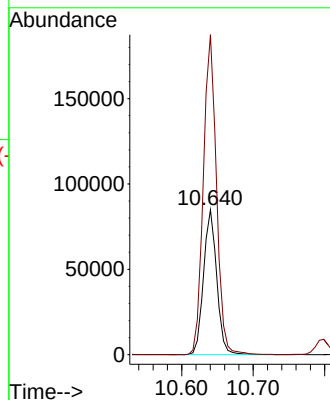
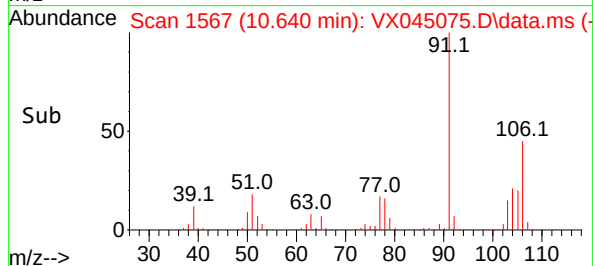
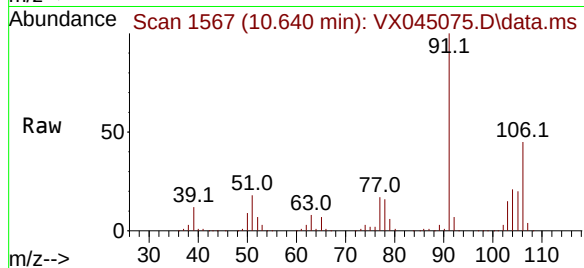
91 220.5 109.9 329.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#70

Styrene

Concen: 52.177 ug/l

RT: 10.652 min Scan# 1569

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

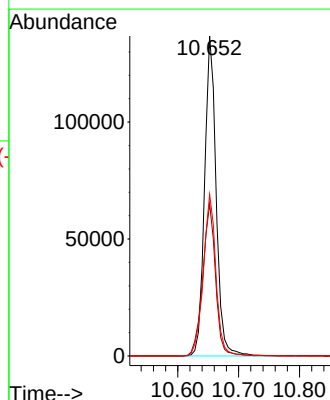
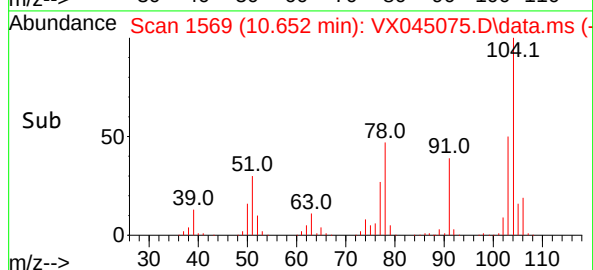
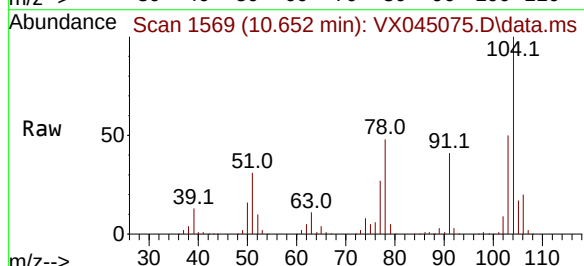
Tgt Ion:104 Resp: 181349

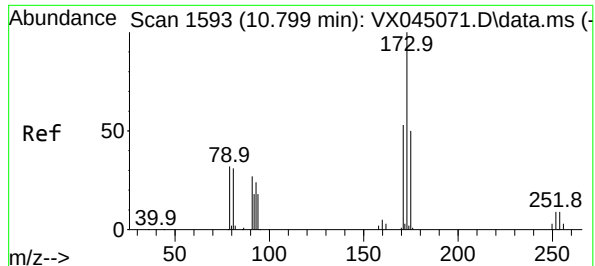
Ion Ratio Lower Upper

104 100

78 52.8 42.2 63.4

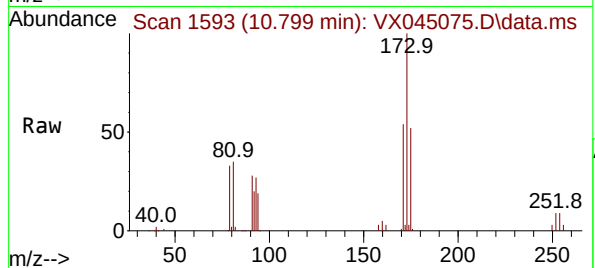
103 55.1 43.8 65.8





#71
Bromoform
Concen: 52.636 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

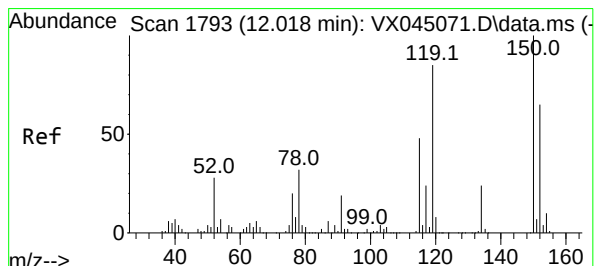
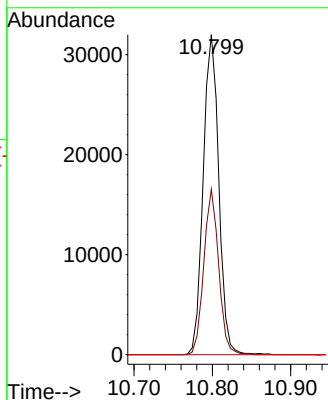
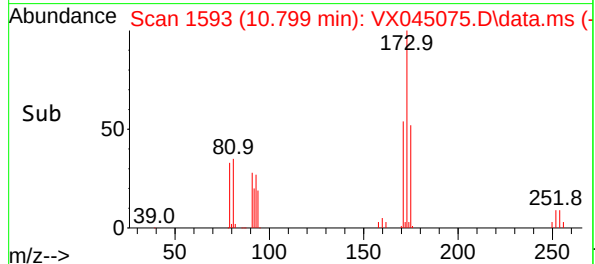
Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825



Tgt Ion:173 Resp: 4413
Ion Ratio Lower Upper
173 100
175 49.3 24.6 73.6
254 0.0 0.0 0.0

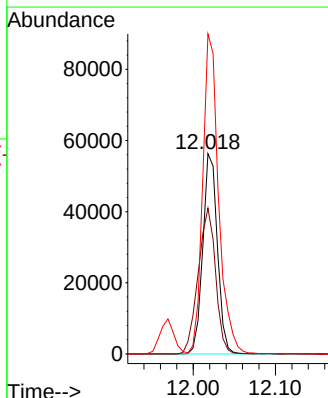
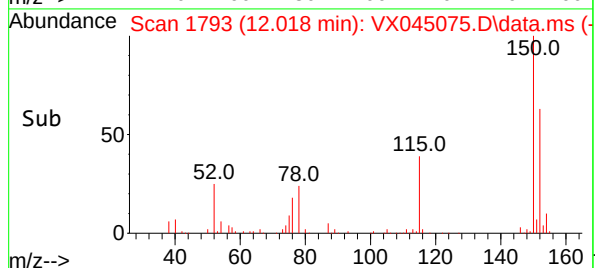
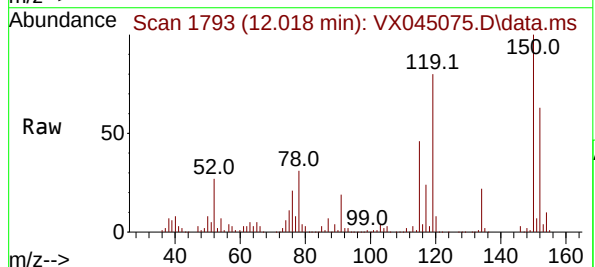
Manual Integrations
APPROVED

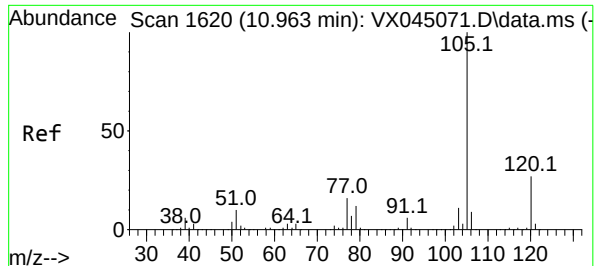
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

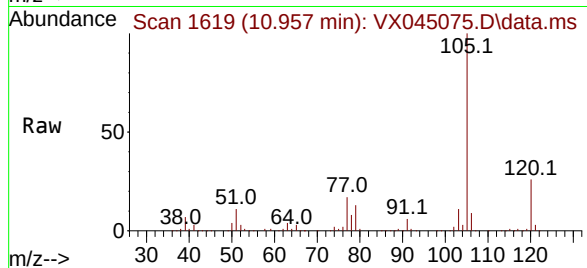
Tgt Ion:152 Resp: 69357
Ion Ratio Lower Upper
152 100
115 86.9 44.2 132.6
150 174.3 0.0 349.0





#73
Isopropylbenzene
Concen: 51.589 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

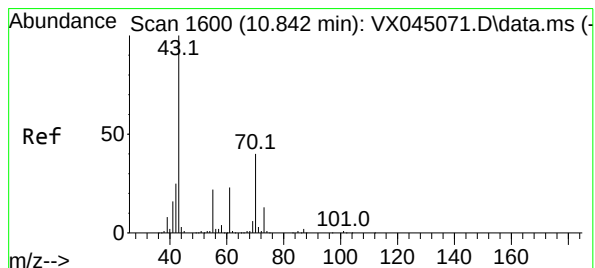
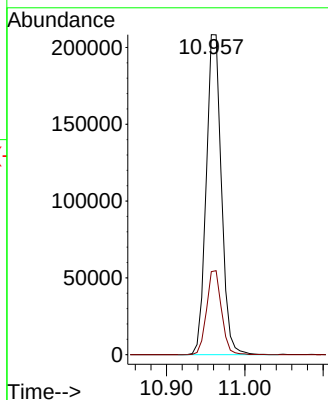
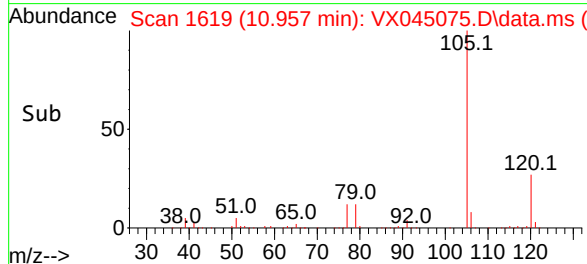
Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825



Tgt Ion:105 Resp: 279278
Ion Ratio Lower Upper
105 100
120 25.9 13.2 39.5

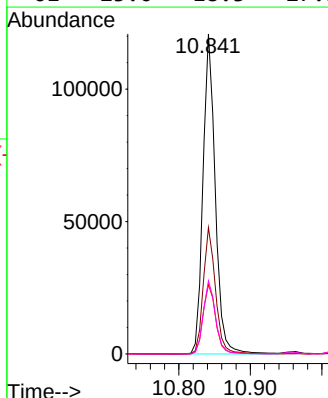
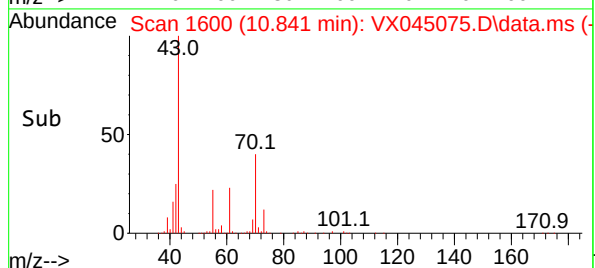
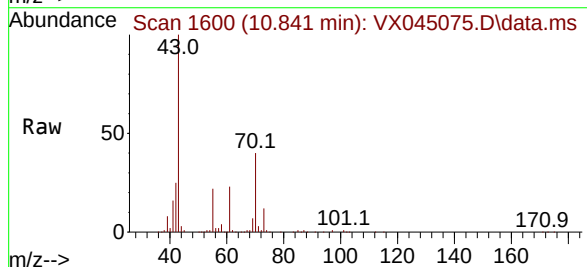
Manual Integrations
APPROVED

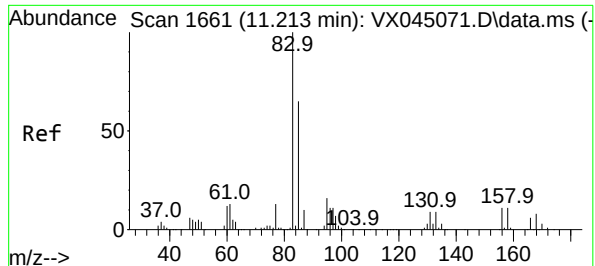
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#74
N-ethyl acetate
Concen: 56.851 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

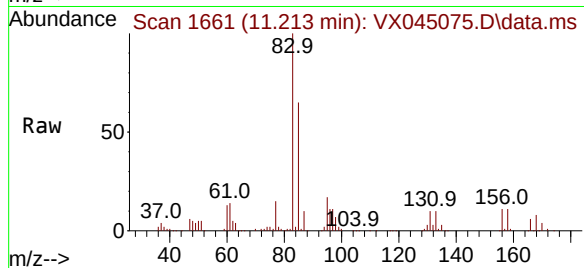
Tgt Ion: 43 Resp: 144412
Ion Ratio Lower Upper
43 100
70 39.5 31.8 47.6
55 22.3 18.3 27.5
61 23.0 18.3 27.5





#75
1,1,2-Tetrachloroethane
Concen: 50.741 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

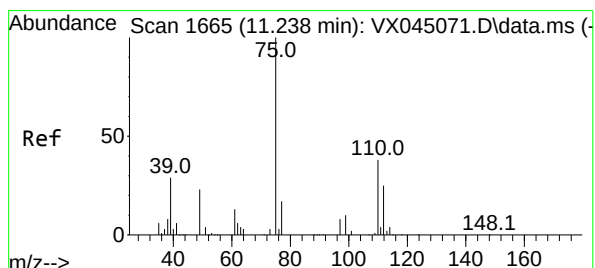
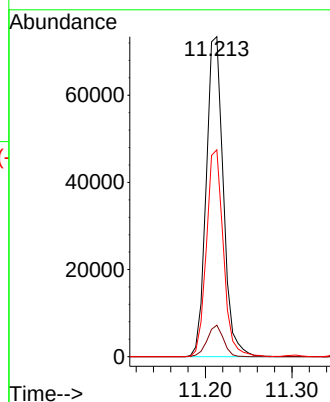
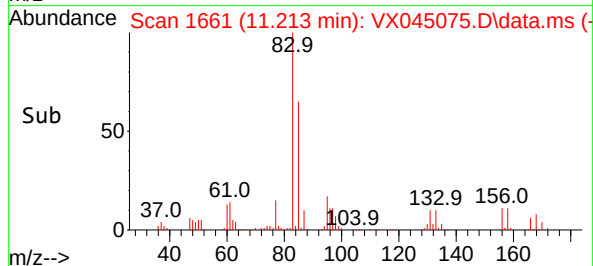
Instrument :
MSVOA_X
ClientSampleId :
ICVX022825



Tgt Ion: 83 Resp: 100800
Ion Ratio Lower Upper
83 100
131 9.4 4.5 13.4
85 64.0 31.7 95.1

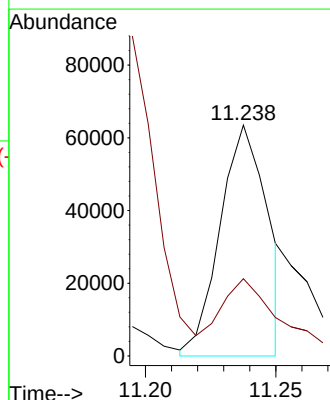
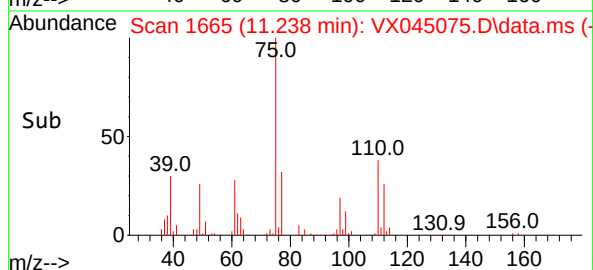
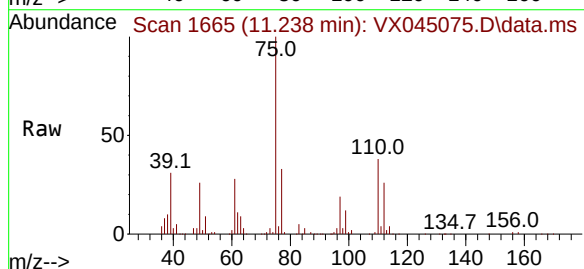
Manual Integrations
APPROVED

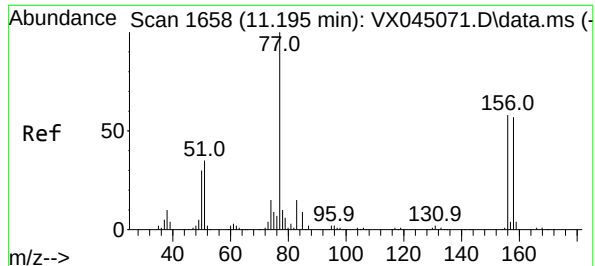
Reviewed By :John Carbone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#76
1,2,3-Trichloropropane
Concen: 49.940 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

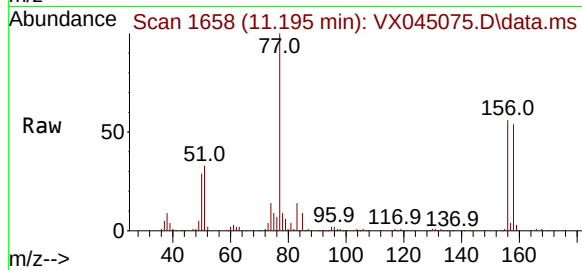
Tgt Ion: 75 Resp: 80618
Ion Ratio Lower Upper
75 100
77 42.5 20.7 62.1





#77
Bromobenzene
Concen: 50.360 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

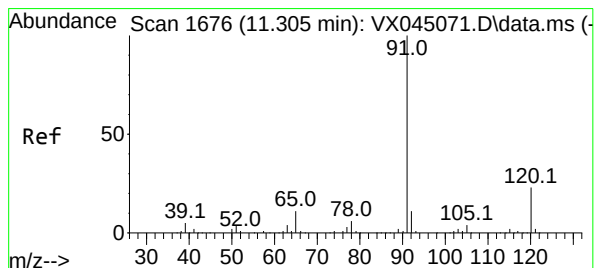
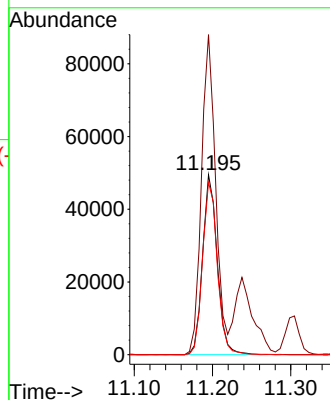
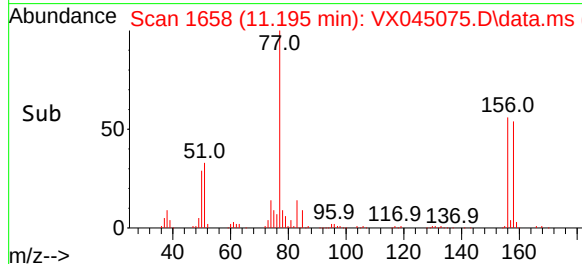
Instrument :
MSVOA_X
ClientSampleId :
ICVX022825



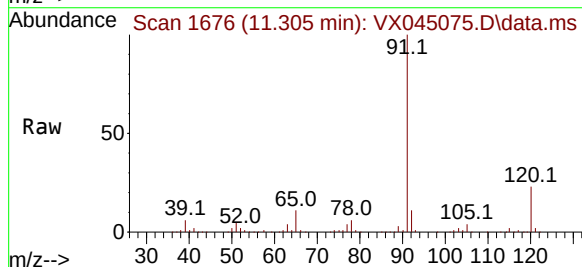
Tgt Ion:156 Resp: 64324
Ion Ratio Lower Upper
156 100
77 172.1 85.8 257.4
158 96.5 48.4 145.2

Manual Integrations
APPROVED

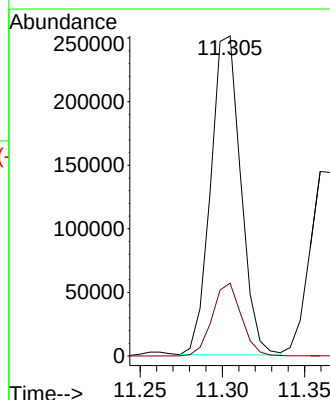
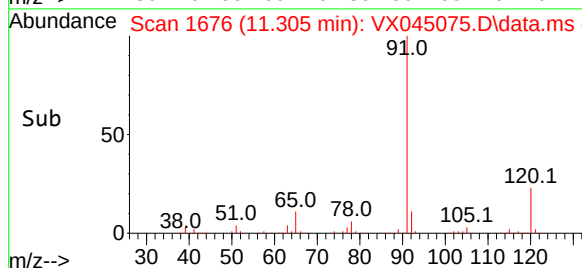
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

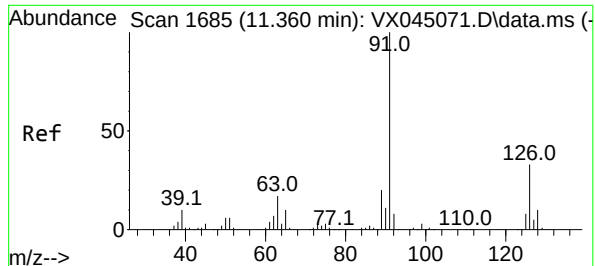


#78
n-propylbenzene
Concen: 52.203 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33



Tgt Ion: 91 Resp: 319235
Ion Ratio Lower Upper
91 100
120 22.2 11.2 33.6





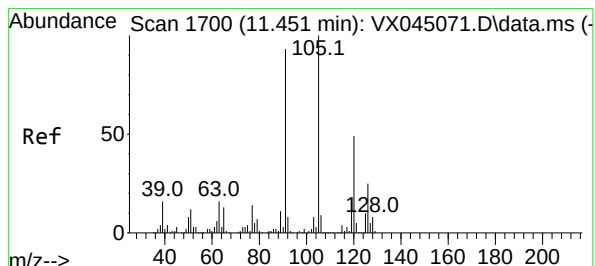
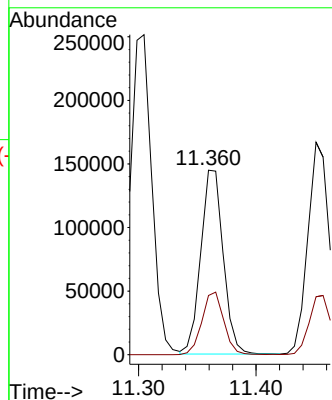
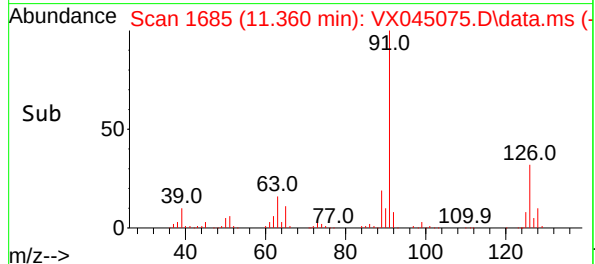
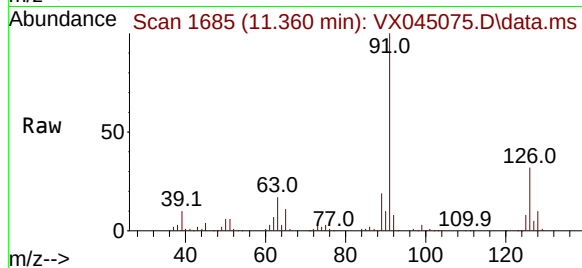
#79
2-Chlorotoluene
Concen: 49.338 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 91 Resp: 192150
Ion Ratio Lower Upper
91 100
126 33.1 16.4 49.4

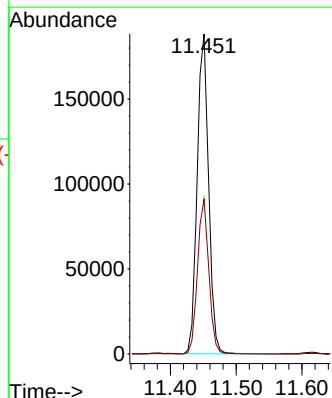
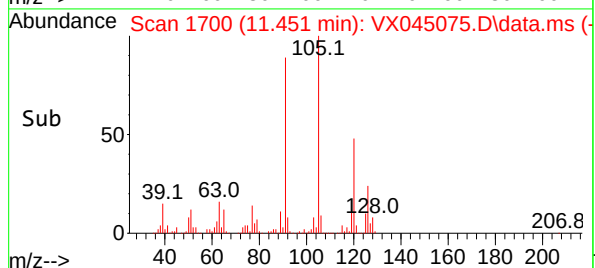
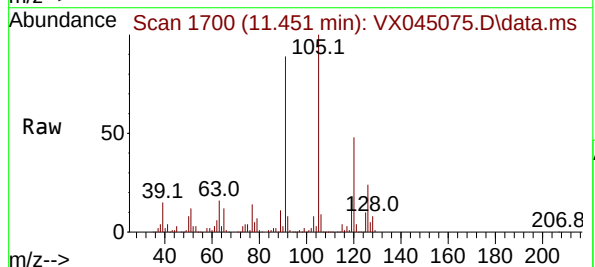
Manual Integrations
APPROVED

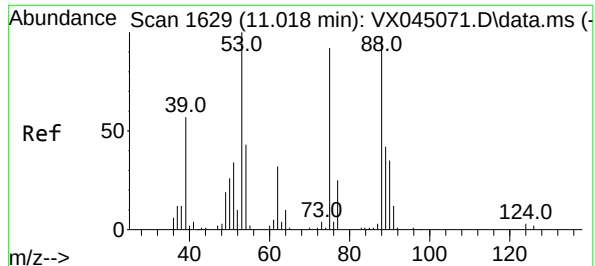
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#80
1,3,5-Trimethylbenzene
Concen: 51.544 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:105 Resp: 225622
Ion Ratio Lower Upper
105 100
120 48.0 24.1 72.2





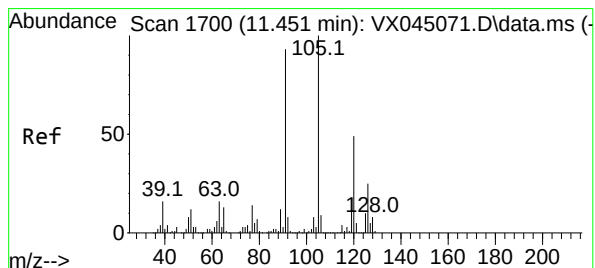
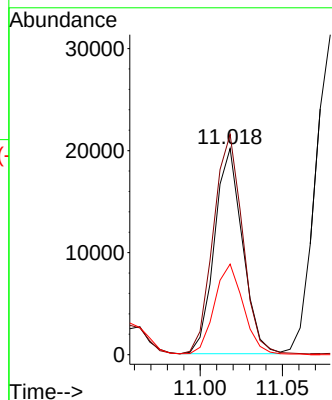
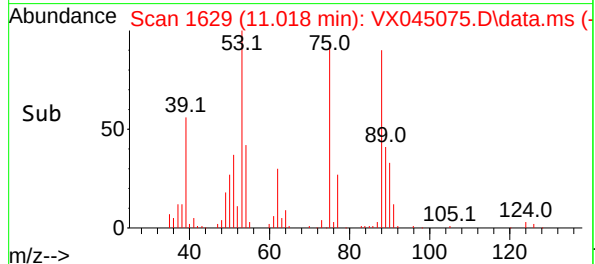
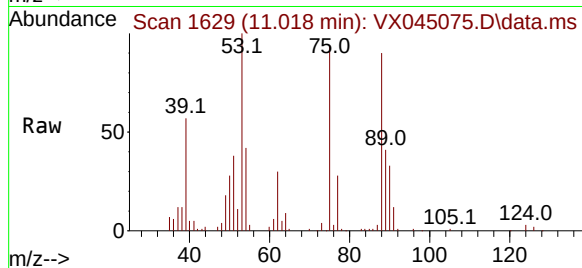
#81
trans-1,4-Dichloro-2-butene
Concen: 50.757 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 75 Resp: 2394
Ion Ratio Lower Upper
75 100
53 111.4 88.5 132.7
89 45.8 36.2 54.4

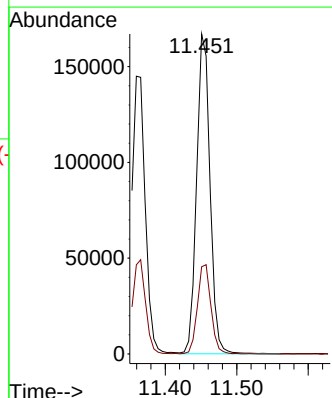
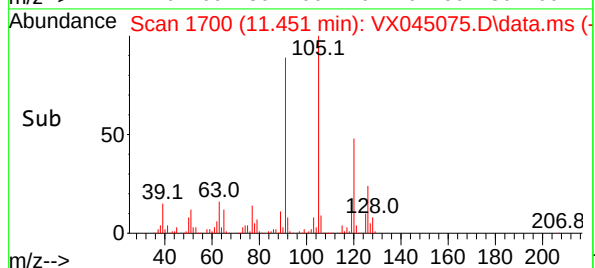
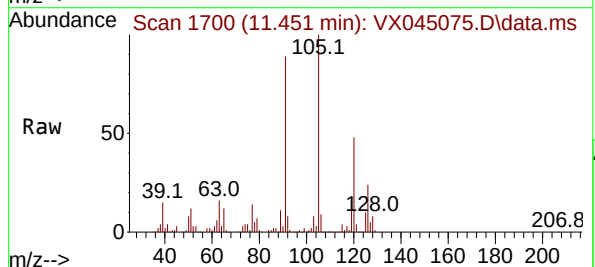
Manual Integrations
APPROVED

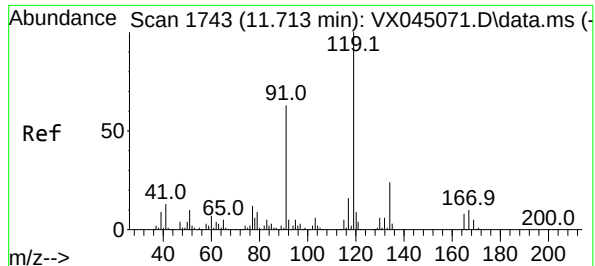
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#82
4-Chlorotoluene
Concen: 51.009 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

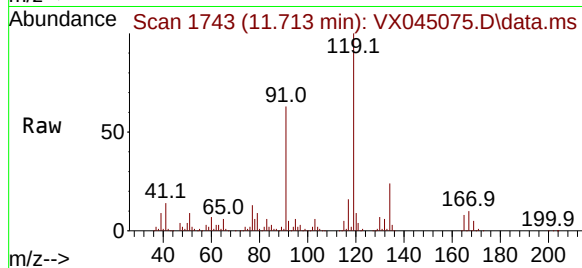
Tgt Ion: 91 Resp: 216511
Ion Ratio Lower Upper
91 100
126 28.3 14.1 42.4





#83
tert-Butylbenzene
Concen: 50.552 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

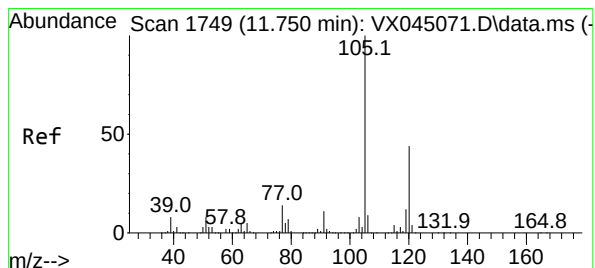
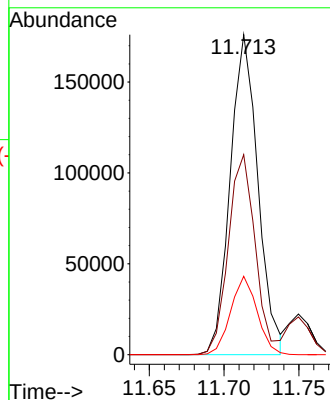
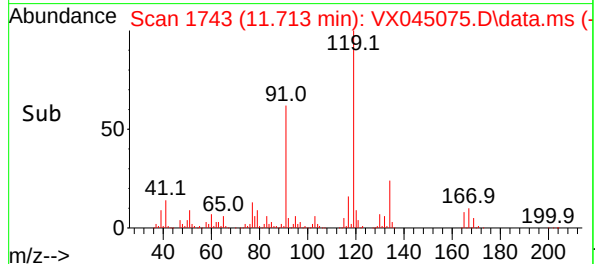
Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825



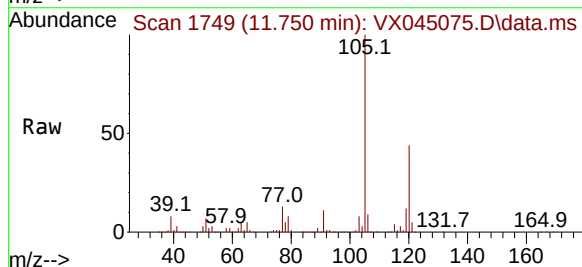
Tgt Ion:119 Resp: 22735
Ion Ratio Lower Upper
119 100
91 61.1 30.7 92.1
134 23.4 11.7 35.0

Manual Integrations
APPROVED

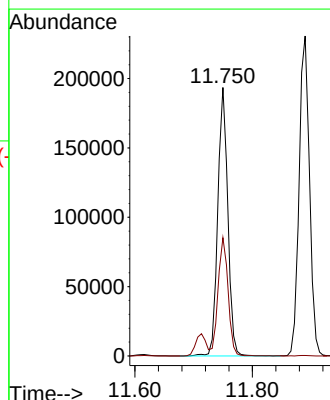
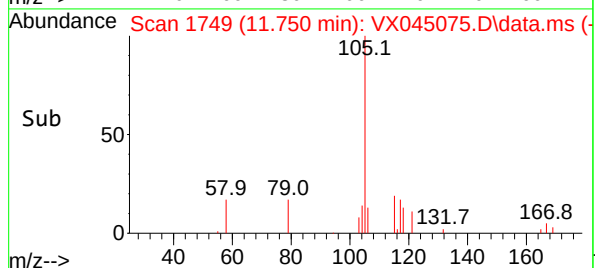
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

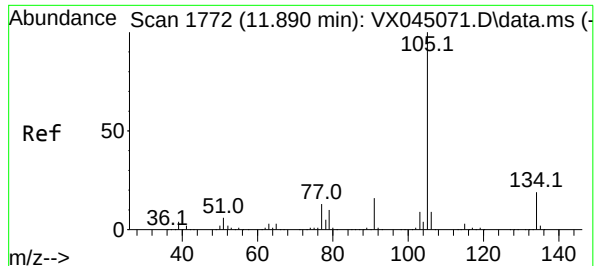


#84
1,2,4-Trimethylbenzene
Concen: 51.932 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33



Tgt Ion:105 Resp: 228729
Ion Ratio Lower Upper
105 100
120 44.3 22.1 66.1





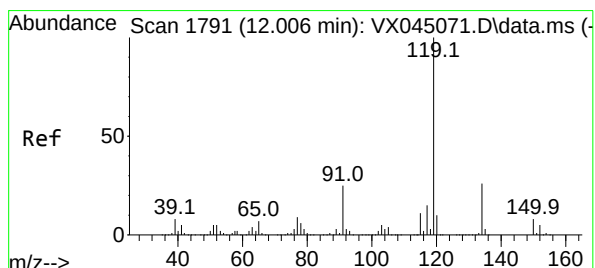
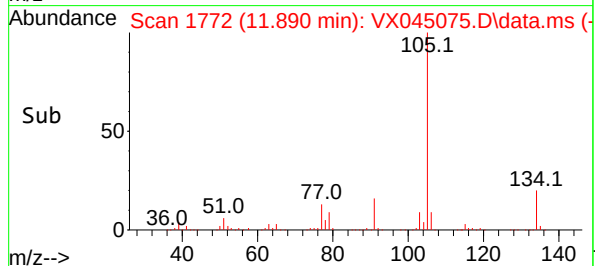
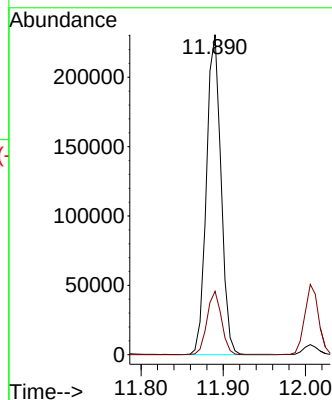
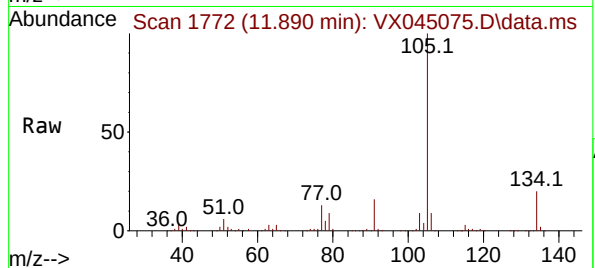
#85
sec-Butylbenzene
Concen: 52.703 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVX022825

Tgt Ion:105 Resp: 28393
Ion Ratio Lower Upper
105 100
134 19.6 9.8 29.4

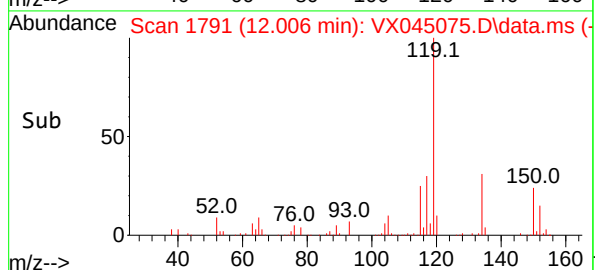
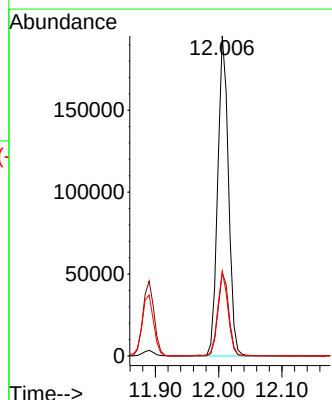
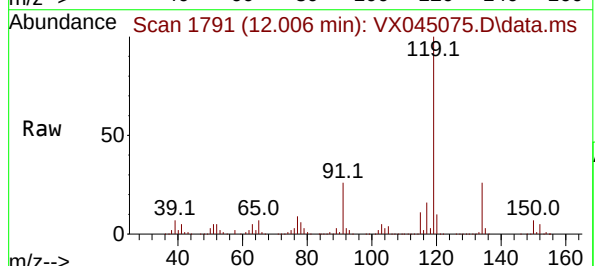
Manual Integrations
APPROVED

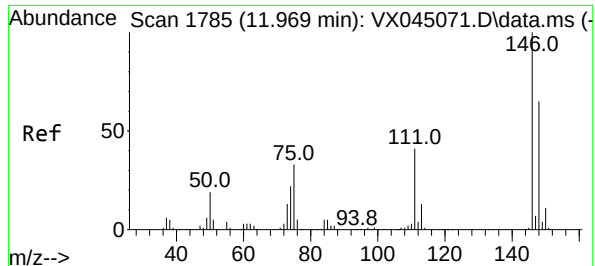
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#86
p-Isopropyltoluene
Concen: 52.803 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

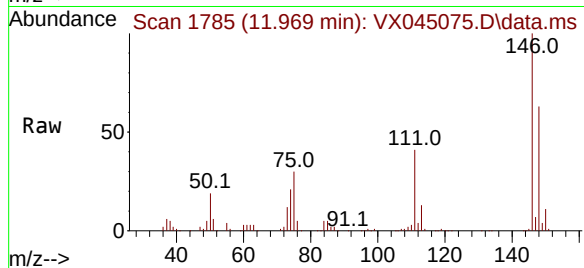
Tgt Ion:119 Resp: 229894
Ion Ratio Lower Upper
119 100
134 25.9 12.9 38.6
91 25.3 12.7 38.0





#87
1,3-Dichlorobenzene
Concen: 50.372 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

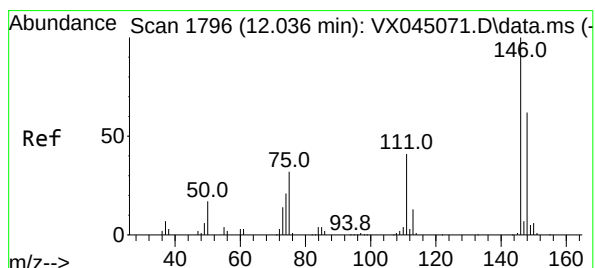
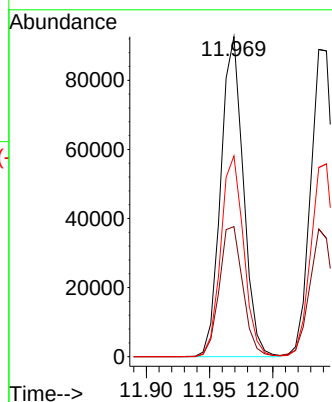
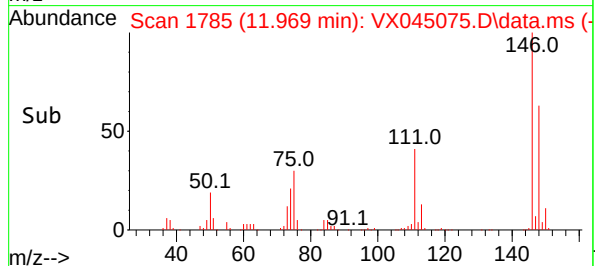
Instrument :
MSVOA_X
ClientSampleId :
ICVX022825



Tgt Ion:146 Resp: 114778
Ion Ratio Lower Upper
146 100
111 42.5 21.1 63.4
148 63.6 31.9 95.7

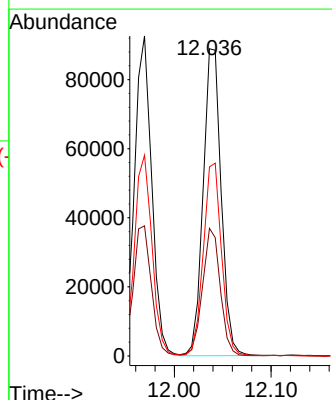
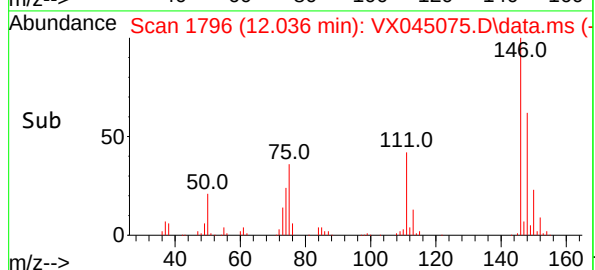
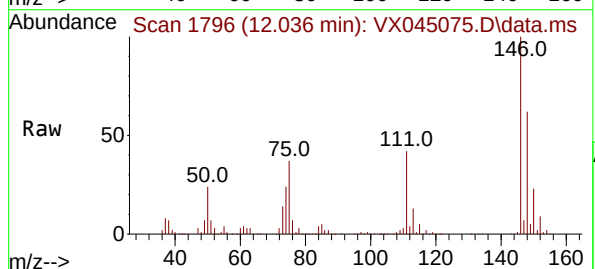
Manual Integrations
APPROVED

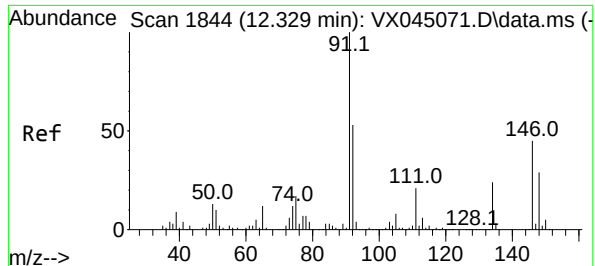
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#88
1,4-Dichlorobenzene
Concen: 50.097 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:146 Resp: 115486
Ion Ratio Lower Upper
146 100
111 41.0 20.2 60.5
148 63.0 31.9 95.9





#89

n-Butylbenzene

Concen: 54.662 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX045075.D

Acq: 28 Feb 2025 04:33

Instrument :

MSVOA_X

ClientSampleId :

ICVX022825

Tgt Ion: 91 Resp: 204972

Ion Ratio Lower Upper

91 100

92 53.8 26.7 80.0

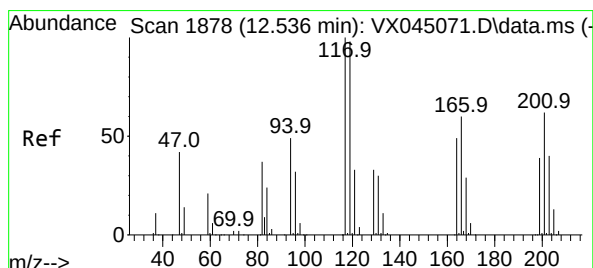
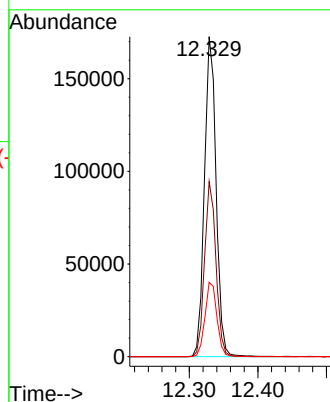
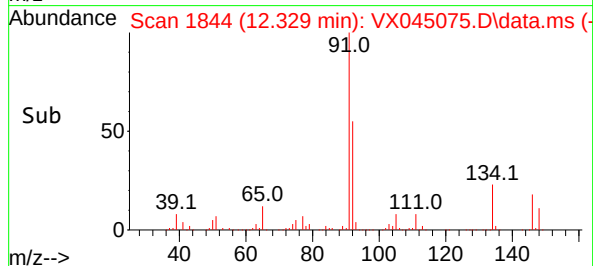
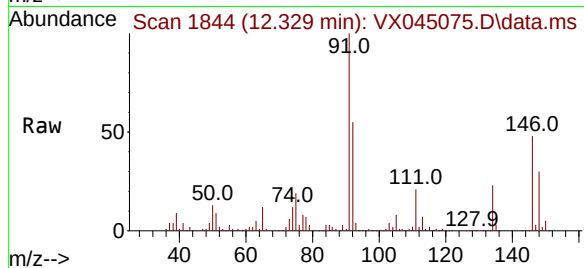
134 23.9 12.2 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#90

Hexachloroethane

Concen: 51.866 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX045075.D

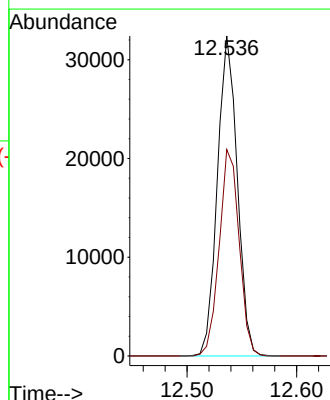
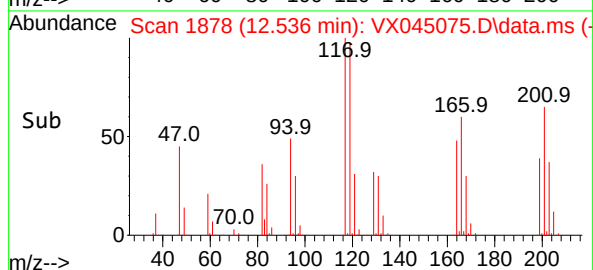
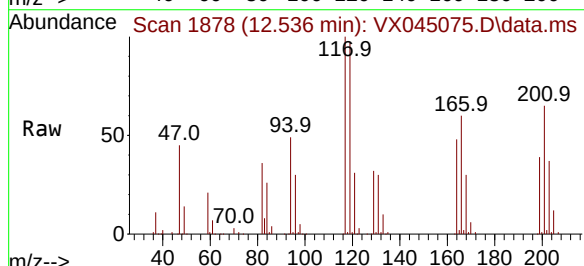
Acq: 28 Feb 2025 04:33

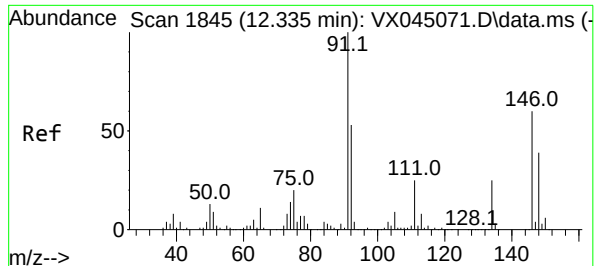
Tgt Ion:117 Resp: 40844

Ion Ratio Lower Upper

117 100

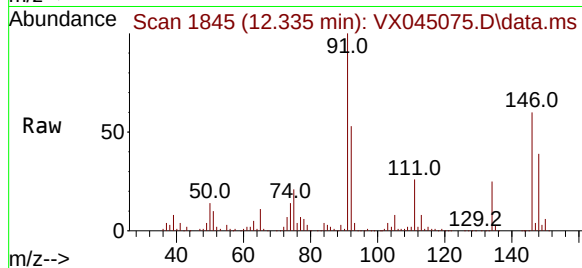
201 64.7 31.9 95.9





#91
1,2-Dichlorobenzene
Concen: 50.899 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

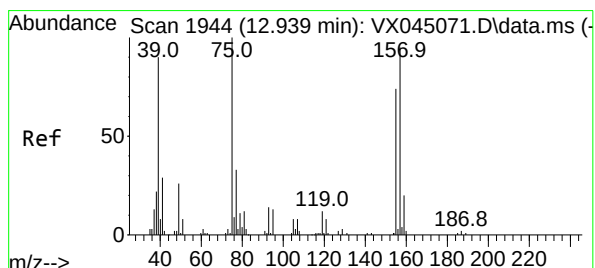
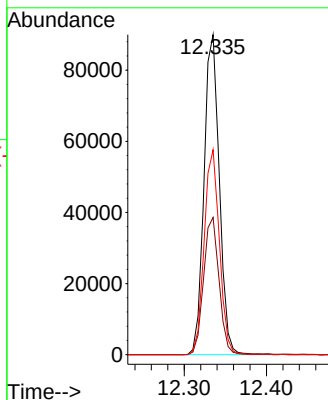
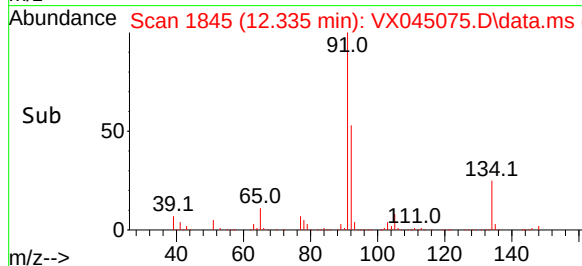
Instrument :
MSVOA_X
ClientSampleId :
ICVX022825



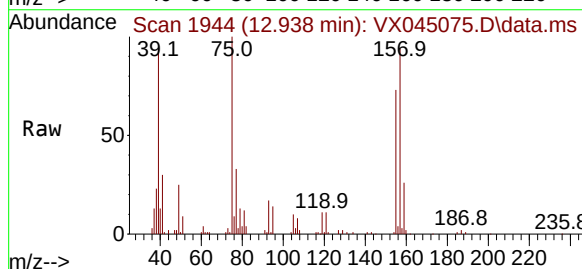
Tgt Ion:146 Resp: 11634
Ion Ratio Lower Upper
146 100
111 43.2 21.6 65.0
148 63.9 31.9 95.9

Manual Integrations
APPROVED

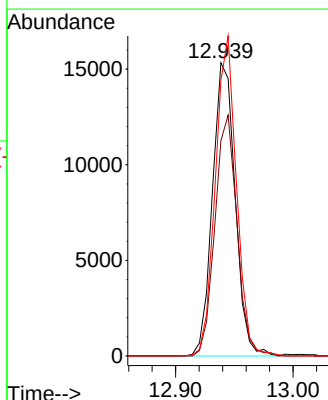
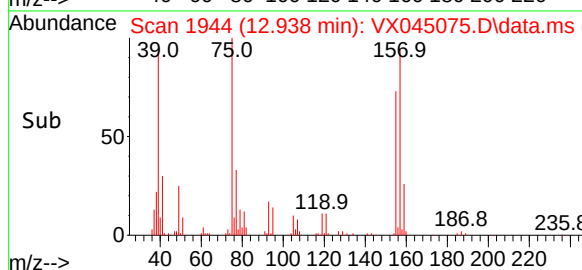
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

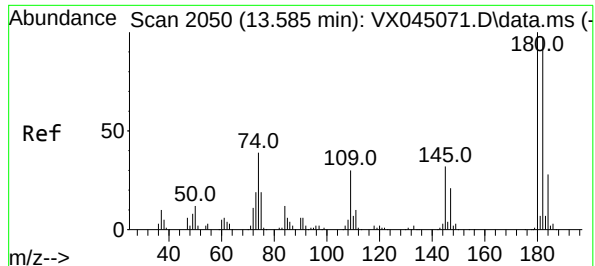


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.199 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33



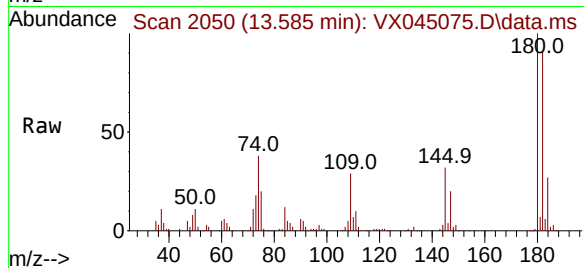
Tgt Ion: 75 Resp: 20589
Ion Ratio Lower Upper
75 100
155 79.8 39.6 118.7
157 101.7 51.1 153.4





#93
1,2,4-Trichlorobenzene
Concen: 54.834 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

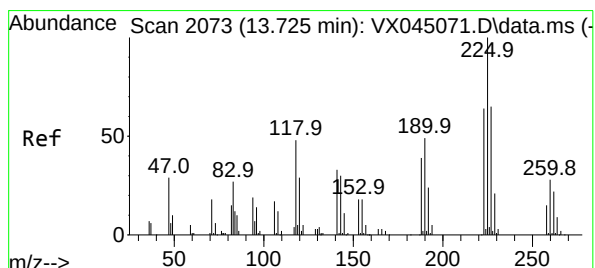
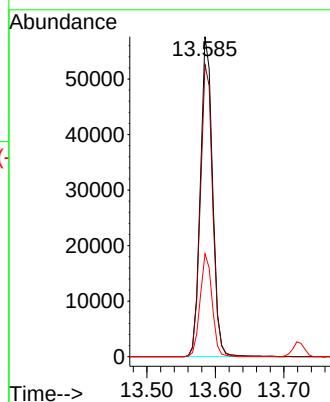
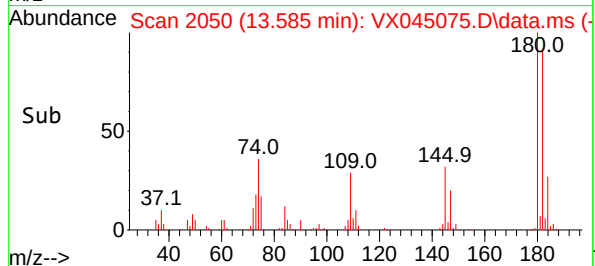
Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825



Tgt Ion:180 Resp: 71368
Ion Ratio Lower Upper
180 100
182 92.4 47.3 141.9
145 31.6 16.3 48.9

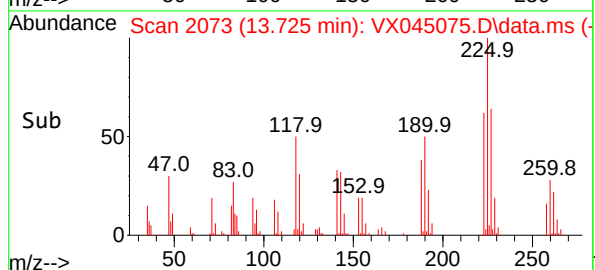
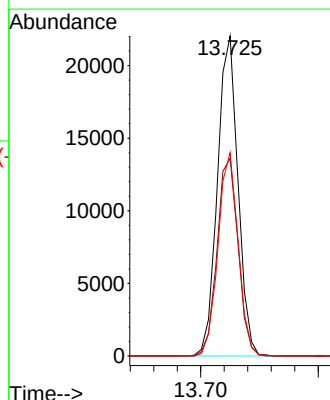
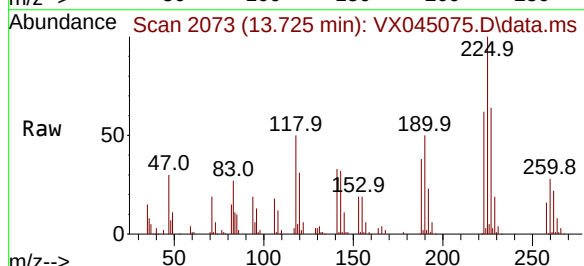
Manual Integrations
APPROVED

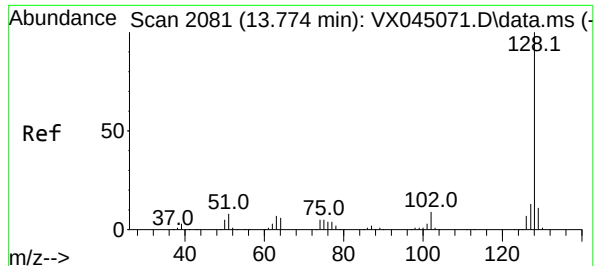
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#94
Hexachlorobutadiene
Concen: 50.032 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

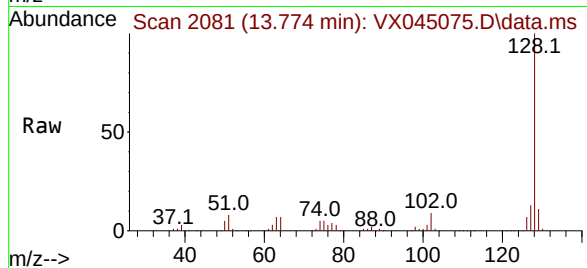
Tgt Ion:225 Resp: 26697
Ion Ratio Lower Upper
225 100
223 63.2 31.9 95.7
227 62.4 31.4 94.0





#95
Naphthalene
Concen: 55.163 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

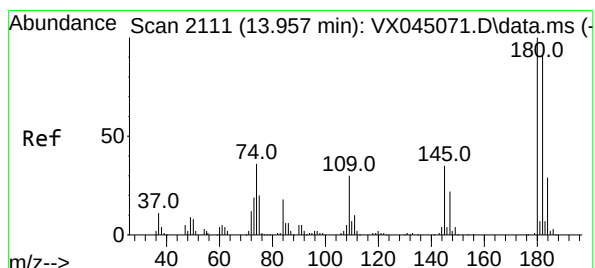
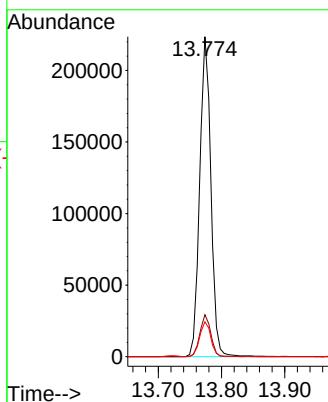
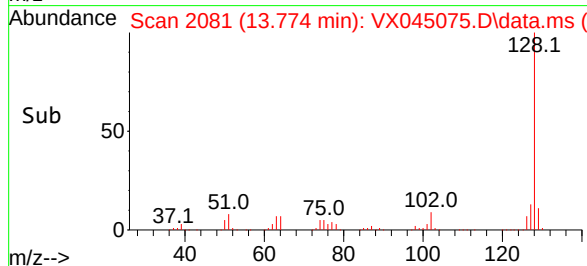
Instrument :
MSVOA_X
ClientSampleId :
ICVX022825



Tgt Ion:128 Resp: 275844
Ion Ratio Lower Upper
128 100
127 12.8 10.3 15.5
129 10.9 8.7 13.1

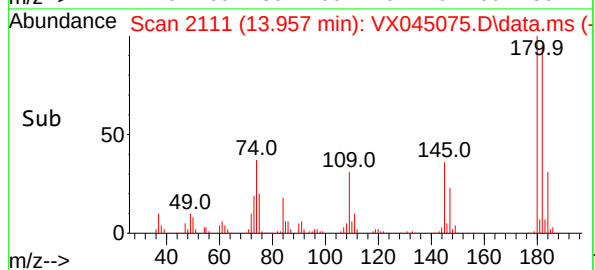
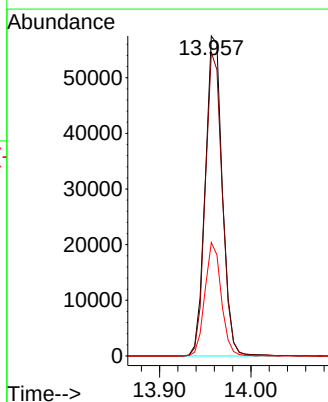
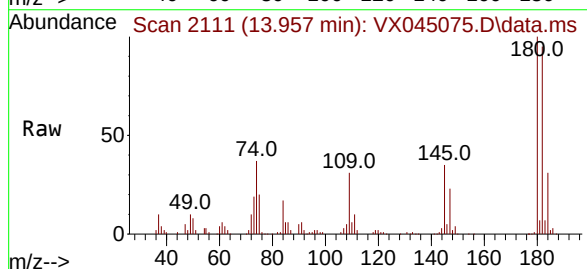
Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 54.049 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:180 Resp: 74211
Ion Ratio Lower Upper
180 100
182 94.5 47.5 142.6
145 33.9 17.0 50.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
 Data File : VX045075.D
 Acq On : 28 Feb 2025 04:33
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX022825

Quant Time: Feb 28 06:55:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	98	0.00
2 T	Dichlorodifluoromethane	0.629	0.603	4.1	95	0.00
3 P	Chloromethane	0.770	0.750	2.6	98	0.00
4 C	Vinyl Chloride	0.764	0.757	0.9#	98	0.00
5 T	Bromomethane	0.300	0.277	7.7	93	0.00
6 T	Chloroethane	0.352	0.296	15.9	78	0.00
7 T	Trichlorofluoromethane	1.011	1.003	0.8	94	0.00
8 T	Diethyl Ether	0.396	0.385	2.8	98	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.581	0.585	-0.7	97	0.00
10 T	Methyl Iodide	0.726	0.734	-1.1	94	0.00
11 T	Tert butyl alcohol	0.151	0.144	4.6	106	0.00
12 CM	1,1-Dichloroethene	0.614	0.609	0.8#	96	0.00
13 T	Acrolein	0.174	0.189	-8.6	107	0.00
14 T	Allyl chloride	1.094	1.131	-3.4	100	0.00
15 T	Acrylonitrile	0.404	0.413	-2.2	99	0.00
16 T	Acetone	0.369	0.358	3.0	100	0.00
17 T	Carbon Disulfide	1.636	1.635	0.1	97	0.00
18 T	Methyl Acetate	0.888	0.893	-0.6	101	0.00
19 T	Methyl tert-butyl Ether	2.061	2.190	-6.3	103	0.00
20 T	Methylene Chloride	0.731	0.726	0.7	102	0.00
21 T	trans-1,2-Dichloroethene	0.607	0.621	-2.3	97	0.00
22 T	Diisopropyl ether	2.224	2.400	-7.9	103	0.00
23 T	Vinyl Acetate	1.856	2.096	-12.9	105	0.00
24 P	1,1-Dichloroethane	1.247	1.276	-2.3	101	0.00
25 T	2-Butanone	0.555	0.587	-5.8	100	0.00
26 T	2,2-Dichloropropane	0.585	0.578	1.2	95	0.00
27 T	cis-1,2-Dichloroethene	0.749	0.773	-3.2	100	0.00
28 T	Bromochloromethane	0.594	0.599	-0.8	98	0.00
29 T	Tetrahydrofuran	0.373	0.385	-3.2	102	0.00
30 C	Chloroform	1.239	1.244	-0.4#	98	0.00
31 T	Cyclohexane	1.082	1.085	-0.3	96	0.00
32 T	1,1,1-Trichloroethane	1.000	1.019	-1.9	98	0.00
33 S	1,2-Dichloroethane-d4	0.795	0.800	-0.6	104	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.00
35 S	Dibromofluoromethane	0.334	0.340	-1.8	103	0.00
36 T	1,1-Dichloropropene	0.459	0.447	2.6	95	0.00
37 T	Ethyl Acetate	0.591	0.610	-3.2	100	0.00
38 T	Carbon Tetrachloride	0.465	0.460	1.1	98	0.00
39 T	Methylcyclohexane	0.549	0.562	-2.4	95	0.00
40 TM	Benzene	1.448	1.482	-2.3	98	0.00
41 T	Methacrylonitrile	0.319	0.341	-6.9	99	0.00
42 TM	1,2-Dichloroethane	0.521	0.529	-1.5	99	0.00
43 T	Isopropyl Acetate	0.874	0.951	-8.8	102	0.00
44 TM	Trichloroethene	0.340	0.333	2.1	97	0.00
45 C	1,2-Dichloropropane	0.372	0.380	-2.2#	102	0.00
46 T	Dibromomethane	0.263	0.272	-3.4	100	0.00
47 T	Bromodichloromethane	0.516	0.526	-1.9	99	0.00
48 T	Methyl methacrylate	0.438	0.474	-8.2	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
 Data File : VX045075.D
 Acq On : 28 Feb 2025 04:33
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX022825

Quant Time: Feb 28 06:55:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.009	0.010	-11.1	102	0.00
50 S	Toluene-d8	1.212	1.221	-0.7	100	0.00
51 T	4-Methyl-2-Pentanone	0.587	0.610	-3.9	99	0.00
52 CM	Toluene	0.849	0.867	-2.1#	96	0.00
53 T	t-1,3-Dichloropropene	0.431	0.468	-8.6	99	0.00
54 T	cis-1,3-Dichloropropene	0.503	0.531	-5.6	98	0.00
55 T	1,1,2-Trichloroethane	0.350	0.351	-0.3	98	0.00
56 T	Ethyl methacrylate	0.532	0.575	-8.1	100	0.00
57 T	1,3-Dichloropropane	0.605	0.621	-2.6	99	0.00
58 T	2-Chloroethyl Vinyl ether	0.259	0.286	-10.4	100	0.00
59 T	2-Hexanone	0.425	0.451	-6.1	100	0.00
60 T	Dibromochloromethane	0.366	0.376	-2.7	97	0.00
61 T	1,2-Dibromoethane	0.349	0.360	-3.2	100	0.00
62 S	4-Bromofluorobenzene	0.402	0.396	1.5	98	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
64 T	Tetrachloroethene	0.320	0.321	-0.3	96	0.00
65 PM	Chlorobenzene	1.058	1.070	-1.1	95	0.00
66 T	1,1,1,2-Tetrachloroethane	0.352	0.360	-2.3	99	0.00
67 C	Ethyl Benzene	1.843	1.903	-3.3#	95	0.00
68 T	m/p-Xylenes	0.675	0.698	-3.4	94	0.00
69 T	o-Xylene	0.681	0.690	-1.3	95	0.00
70 T	Styrene	1.101	1.149	-4.4	95	0.00
71 P	Bromoform	0.266	0.280	-5.3	99	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
73 T	Isopropylbenzene	3.903	4.027	-3.2	95	0.00
74 T	N-amyl acetate	1.831	2.082	-13.7	103	0.00
75 P	1,1,2,2-Tetrachloroethane	1.432	1.453	-1.5	100	0.00
76 T	1,2,3-Trichloropropane	1.164	1.162	0.2	99	0.00
77 T	Bromobenzene	0.921	0.927	-0.7	96	0.00
78 T	n-propylbenzene	4.409	4.603	-4.4	93	0.00
79 T	2-Chlorotoluene	2.808	2.770	1.4	94	0.00
80 T	1,3,5-Trimethylbenzene	3.156	3.253	-3.1	94	0.00
81 T	trans-1,4-Dichloro-2-butene	0.340	0.345	-1.5	99	0.00
82 T	4-Chlorotoluene	3.060	3.122	-2.0	94	0.00
83 T	tert-Butylbenzene	3.242	3.278	-1.1	95	0.00
84 T	1,2,4-Trimethylbenzene	3.175	3.298	-3.9	95	0.00
85 T	sec-Butylbenzene	3.884	4.094	-5.4	95	0.00
86 T	p-Isopropyltoluene	3.139	3.315	-5.6	94	0.00
87 T	1,3-Dichlorobenzene	1.643	1.655	-0.7	97	0.00
88 T	1,4-Dichlorobenzene	1.662	1.665	-0.2	96	0.00
89 T	n-Butylbenzene	2.703	2.955	-9.3	95	0.00
90 T	Hexachloroethane	0.568	0.589	-3.7	95	0.00
91 T	1,2-Dichlorobenzene	1.648	1.677	-1.8	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.279	0.297	-6.5	100	0.00
93 T	1,2,4-Trichlorobenzene	0.938	1.029	-9.7	99	0.00
94 T	Hexachlorobutadiene	0.385	0.385	0.0	96	0.00
95 T	Naphthalene	3.605	3.977	-10.3	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.990	1.070	-8.1	98	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
 Data File : VX045075.D
 Acq On : 28 Feb 2025 04:33
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX022825

Quant Time: Feb 28 06:55:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	98	0.00
2 T	Dichlorodifluoromethane	50.000	47.933	4.1	95	0.00
3 P	Chloromethane	50.000	48.696	2.6	98	0.00
4 C	Vinyl Chloride	50.000	49.529	0.9#	98	0.00
5 T	Bromomethane	50.000	46.190	7.6	93	0.00
6 T	Chloroethane	50.000	41.948	16.1	78	0.00
7 T	Trichlorofluoromethane	50.000	49.569	0.9	94	0.00
8 T	Diethyl Ether	50.000	48.651	2.7	98	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	50.367	-0.7	97	0.00
10 T	Methyl Iodide	50.000	50.541	-1.1	94	0.00
11 T	Tert butyl alcohol	250.000	238.577	4.6	106	0.00
12 CM	1,1-Dichloroethene	50.000	49.568	0.9#	96	0.00
13 T	Acrolein	250.000	271.255	-8.5	107	0.00
14 T	Allyl chloride	50.000	51.691	-3.4	100	0.00
15 T	Acrylonitrile	250.000	255.479	-2.2	99	0.00
16 T	Acetone	250.000	242.877	2.8	100	0.00
17 T	Carbon Disulfide	50.000	49.952	0.1	97	0.00
18 T	Methyl Acetate	50.000	50.312	-0.6	101	0.00
19 T	Methyl tert-butyl Ether	50.000	53.114	-6.2	103	0.00
20 T	Methylene Chloride	50.000	49.639	0.7	102	0.00
21 T	trans-1,2-Dichloroethene	50.000	51.172	-2.3	97	0.00
22 T	Diisopropyl ether	50.000	53.955	-7.9	103	0.00
23 T	Vinyl Acetate	250.000	282.313	-12.9	105	0.00
24 P	1,1-Dichloroethane	50.000	51.190	-2.4	101	0.00
25 T	2-Butanone	250.000	264.040	-5.6	100	0.00
26 T	2,2-Dichloropropane	50.000	49.401	1.2	95	0.00
27 T	cis-1,2-Dichloroethene	50.000	51.606	-3.2	100	0.00
28 T	Bromochloromethane	50.000	50.399	-0.8	98	0.00
29 T	Tetrahydrofuran	250.000	258.277	-3.3	102	0.00
30 C	Chloroform	50.000	50.236	-0.5#	98	0.00
31 T	Cyclohexane	50.000	50.158	-0.3	96	0.00
32 T	1,1,1-Trichloroethane	50.000	50.939	-1.9	98	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.297	-0.6	104	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	99	0.00
35 S	Dibromofluoromethane	50.000	50.841	-1.7	103	0.00
36 T	1,1-Dichloropropene	50.000	48.770	2.5	95	0.00
37 T	Ethyl Acetate	50.000	51.596	-3.2	100	0.00
38 T	Carbon Tetrachloride	50.000	49.425	1.2	98	0.00
39 T	Methylcyclohexane	50.000	51.169	-2.3	95	0.00
40 TM	Benzene	50.000	51.195	-2.4	98	0.00
41 T	Methacrylonitrile	50.000	53.352	-6.7	99	0.00
42 TM	1,2-Dichloroethane	50.000	50.718	-1.4	99	0.00
43 T	Isopropyl Acetate	50.000	54.452	-8.9	102	0.00
44 TM	Trichloroethene	50.000	48.924	2.2	97	0.00
45 C	1,2-Dichloropropane	50.000	51.086	-2.2#	102	0.00
46 T	Dibromomethane	50.000	51.661	-3.3	100	0.00
47 T	Bromodichloromethane	50.000	50.930	-1.9	99	0.00
48 T	Methyl methacrylate	50.000	54.016	-8.0	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
 Data File : VX045075.D
 Acq On : 28 Feb 2025 04:33
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX022825

Quant Time: Feb 28 06:55:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1049.007	-4.9	102	0.00
50 S	Toluene-d8	50.000	50.364	-0.7	100	0.00
51 T	4-Methyl-2-Pentanone	250.000	259.995	-4.0	99	0.00
52 CM	Toluene	50.000	51.020	-2.0#	96	0.00
53 T	t-1,3-Dichloropropene	50.000	54.247	-8.5	99	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.732	-5.5	98	0.00
55 T	1,1,2-Trichloroethane	50.000	50.232	-0.5	98	0.00
56 T	Ethyl methacrylate	50.000	54.109	-8.2	100	0.00
57 T	1,3-Dichloropropane	50.000	51.312	-2.6	99	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	275.557	-10.2	100	0.00
59 T	2-Hexanone	250.000	265.049	-6.0	100	0.00
60 T	Dibromochloromethane	50.000	51.374	-2.7	97	0.00
61 T	1,2-Dibromoethane	50.000	51.492	-3.0	100	0.00
62 S	4-Bromofluorobenzene	50.000	49.240	1.5	98	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	97	0.00
64 T	Tetrachloroethene	50.000	50.126	-0.3	96	0.00
65 PM	Chlorobenzene	50.000	50.580	-1.2	95	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	51.102	-2.2	99	0.00
67 C	Ethyl Benzene	50.000	51.621	-3.2#	95	0.00
68 T	m/p-Xylenes	100.000	103.454	-3.5	94	0.00
69 T	o-Xylene	50.000	50.668	-1.3	95	0.00
70 T	Styrene	50.000	52.177	-4.4	95	0.00
71 P	Bromoform	50.000	52.636	-5.3	99	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	97	0.00
73 T	Isopropylbenzene	50.000	51.589	-3.2	95	0.00
74 T	N-ethyl acetate	50.000	56.851	-13.7	103	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	50.741	-1.5	100	0.00
76 T	1,2,3-Trichloropropane	50.000	49.940	0.1	99	0.00
77 T	Bromobenzene	50.000	50.360	-0.7	96	0.00
78 T	n-propylbenzene	50.000	52.203	-4.4	93	0.00
79 T	2-Chlorotoluene	50.000	49.338	1.3	94	0.00
80 T	1,3,5-Trimethylbenzene	50.000	51.544	-3.1	94	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	50.757	-1.5	99	0.00
82 T	4-Chlorotoluene	50.000	51.009	-2.0	94	0.00
83 T	tert-Butylbenzene	50.000	50.552	-1.1	95	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.932	-3.9	95	0.00
85 T	sec-Butylbenzene	50.000	52.703	-5.4	95	0.00
86 T	p-Isopropyltoluene	50.000	52.803	-5.6	94	0.00
87 T	1,3-Dichlorobenzene	50.000	50.372	-0.7	97	0.00
88 T	1,4-Dichlorobenzene	50.000	50.097	-0.2	96	0.00
89 T	n-Butylbenzene	50.000	54.662	-9.3	95	0.00
90 T	Hexachloroethane	50.000	51.866	-3.7	95	0.00
91 T	1,2-Dichlorobenzene	50.000	50.899	-1.8	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	53.199	-6.4	100	0.00
93 T	1,2,4-Trichlorobenzene	50.000	54.834	-9.7	99	0.00
94 T	Hexachlorobutadiene	50.000	50.032	-0.1	96	0.00
95 T	Naphthalene	50.000	55.163	-10.3	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	54.049	-8.1	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: MSVOA_X Calibration Date/Time: 03/06/2025 09:56

Lab File ID: VX045155.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.764	0.725		-5.11	20
1,1-Dichloroethene	0.614	0.600		-2.28	20
2-Butanone	0.555	0.564		1.62	20
Carbon Tetrachloride	0.465	0.458		-1.5	20
Chloroform	1.239	1.209		-2.42	20
Benzene	1.448	1.464		1.11	20
1,2-Dichloroethane	0.521	0.534		2.49	20
Trichloroethene	0.340	0.341		0.29	20
Tetrachloroethene	0.320	0.322		0.63	20
Chlorobenzene	1.058	1.078	0.3	1.89	20
1,2-Dichloroethane-d4	0.795	0.783		-1.51	20
Dibromofluoromethane	0.334	0.341		2.1	20
Toluene-d8	1.212	1.244		2.64	20
4-Bromofluorobenzene	0.402	0.419		4.23	20

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_X\Data\VX030625\
 Data File : VX045155.D
 Acq On : 06 Mar 2025 09:56
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/10/2025
 Supervised By : Mahesh Dadoda 03/10/2025

Quant Time: Mar 07 00:36:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	99532	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	175834	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	153746	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	69403	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	77946	49.233	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.460%		
35) Dibromofluoromethane	5.379	113	59938	50.978	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	101.960%		
50) Toluene-d8	8.647	98	218659	51.298	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.600%		
62) 4-Bromofluorobenzene	11.079	95	73689	52.170	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	104.340%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	62832	50.150	ug/l	97
3) Chloromethane	1.307	50	71998	46.958	ug/l	97
4) Vinyl Chloride	1.374	62	72148	47.434	ug/l	95
5) Bromomethane	1.593	94	27896	46.654	ug/l	97
6) Chloroethane	1.660	64	29705	42.341	ug/l	95
7) Trichlorofluoromethane	1.861	101	96812	48.081	ug/l	100
8) Diethyl Ether	2.136	74	36087	45.821	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.313	101	61310	52.999	ug/l	99
10) Methyl Iodide	2.441	142	74610	51.610	ug/l	98
11) Tert butyl alcohol	3.002	59	58538	195.202	ug/l	98
12) 1,1-Dichloroethene	2.307	96	59671	48.789	ug/l	96
13) Acrolein	2.239	56	73987	213.430	ug/l	100
14) Allyl chloride	2.654	41	109096	50.112	ug/l	98
15) Acrylonitrile	3.069	53	198270	246.689	ug/l	99
16) Acetone	2.392	43	171774	233.847	ug/l	100
17) Carbon Disulfide	2.495	76	145559	44.684	ug/l	98
18) Methyl Acetate	2.709	43	95234	53.893	ug/l	97
19) Methyl tert-butyl Ether	3.117	73	200537	48.872	ug/l	99
20) Methylene Chloride	2.782	84	70093	48.172	ug/l	96
21) trans-1,2-Dichloroethene	3.081	96	60722	50.255	ug/l	98
22) Diisopropyl ether	3.764	45	224890	50.793	ug/l	96
23) Vinyl Acetate	3.721	43	950142	257.151	ug/l	100
24) 1,1-Dichloroethane	3.599	63	120920	48.731	ug/l	99
25) 2-Butanone	4.562	43	280778	253.939	ug/l	96
26) 2,2-Dichloropropane	4.465	77	79357	68.182	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	74696	50.079	ug/l	98
28) Bromochloromethane	4.891	49	54795	46.329	ug/l	98
29) Tetrahydrofuran	5.007	42	181493	244.426	ug/l	99
30) Chloroform	5.087	83	120327	48.804	ug/l	99
31) Cyclohexane	5.464	56	108111	50.191	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	97325	48.875	ug/l	99
36) 1,1-Dichloropropene	5.684	75	80527	49.941	ug/l	99
37) Ethyl Acetate	4.715	43	104246	50.173	ug/l	99
38) Carbon Tetrachloride	5.666	117	80480	49.163	ug/l	98
39) Methylcyclohexane	7.373	83	105138	54.417	ug/l	98
40) Benzene	6.031	78	257458	50.564	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045155.D
 Acq On : 06 Mar 2025 09:56
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/10/2025
 Supervised By : Mahesh Dadoda 03/10/2025

Quant Time: Mar 07 00:36:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	58347	51.935	ug/l	98
42) 1,2-Dichloroethane	6.086	62	93921	51.224	ug/l	100
43) Isopropyl Acetate	6.342	43	158752	51.671	ug/l	99
44) Trichloroethene	7.123	130	60024	50.205	ug/l	99
45) 1,2-Dichloropropane	7.428	63	66275	50.625	ug/l	99
46) Dibromomethane	7.580	93	47874	51.739	ug/l	100
47) Bromodichloromethane	7.818	83	91992	50.685	ug/l	98
48) Methyl methacrylate	7.690	41	80137	51.991	ug/l	99
49) 1,4-Dioxane	7.665	88	32662	1004.564	ug/l	100
51) 4-Methyl-2-Pentanone	8.574	43	541338	262.414	ug/l	99
52) Toluene	8.714	92	156953	52.538	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	82047	54.074	ug/l	97
54) cis-1,3-Dichloropropene	8.360	75	95642	54.055	ug/l	96
55) 1,1,2-Trichloroethane	9.147	97	62335	50.685	ug/l	99
56) Ethyl methacrylate	9.116	69	97896	52.367	ug/l	99
57) 1,3-Dichloropropane	9.305	76	107677	50.592	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	249971	274.113	ug/l	99
59) 2-Hexanone	9.433	43	396084	264.998	ug/l	100
60) Dibromochloromethane	9.519	129	66396	51.634	ug/l	100
61) 1,2-Dibromoethane	9.610	107	62076	50.561	ug/l	100
64) Tetrachloroethene	9.269	164	49532	50.303	ug/l	92
65) Chlorobenzene	10.073	112	165756	50.951	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	54204	50.032	ug/l	99
67) Ethyl Benzene	10.189	91	296897	52.376	ug/l	100
68) m/p-Xylenes	10.299	106	216494	104.329	ug/l	97
69) o-Xylene	10.640	106	106776	51.019	ug/l	100
70) Styrene	10.653	104	178838	52.810	ug/l	100
71) Bromoform	10.799	173	40824	49.970	ug/l #	99
73) Isopropylbenzene	10.957	105	276189	50.984	ug/l	99
74) N-amyl acetate	10.842	43	131698	51.811	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	98154	49.376	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	79287m	49.083	ug/l	
77) Bromobenzene	11.195	156	64179	50.213	ug/l	98
78) n-propylbenzene	11.305	91	322984	52.781	ug/l	99
79) 2-Chlorotoluene	11.360	91	193846	49.740	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	224986	51.365	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	24421	51.737	ug/l	94
82) 4-Chlorotoluene	11.451	91	215920	50.836	ug/l	99
83) tert-Butylbenzene	11.713	119	226930	50.423	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	227267	51.566	ug/l	100
85) sec-Butylbenzene	11.890	105	284085	52.696	ug/l	99
86) p-Isopropyltoluene	12.006	119	233986	53.707	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	113668	49.852	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	114115	49.469	ug/l	98
89) n-Butylbenzene	12.329	91	209635	55.868	ug/l	99
90) Hexachloroethane	12.536	117	39179	49.718	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	117105	51.199	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	19847	51.248	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	70127	53.845	ug/l	99
94) Hexachlorobutadiene	13.725	225	27989	52.418	ug/l	99
95) Naphthalene	13.774	128	266376	53.234	ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	73124	53.222	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045155.D
Acq On : 06 Mar 2025 09:56
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

Quant Time: Mar 07 00:36:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

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

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

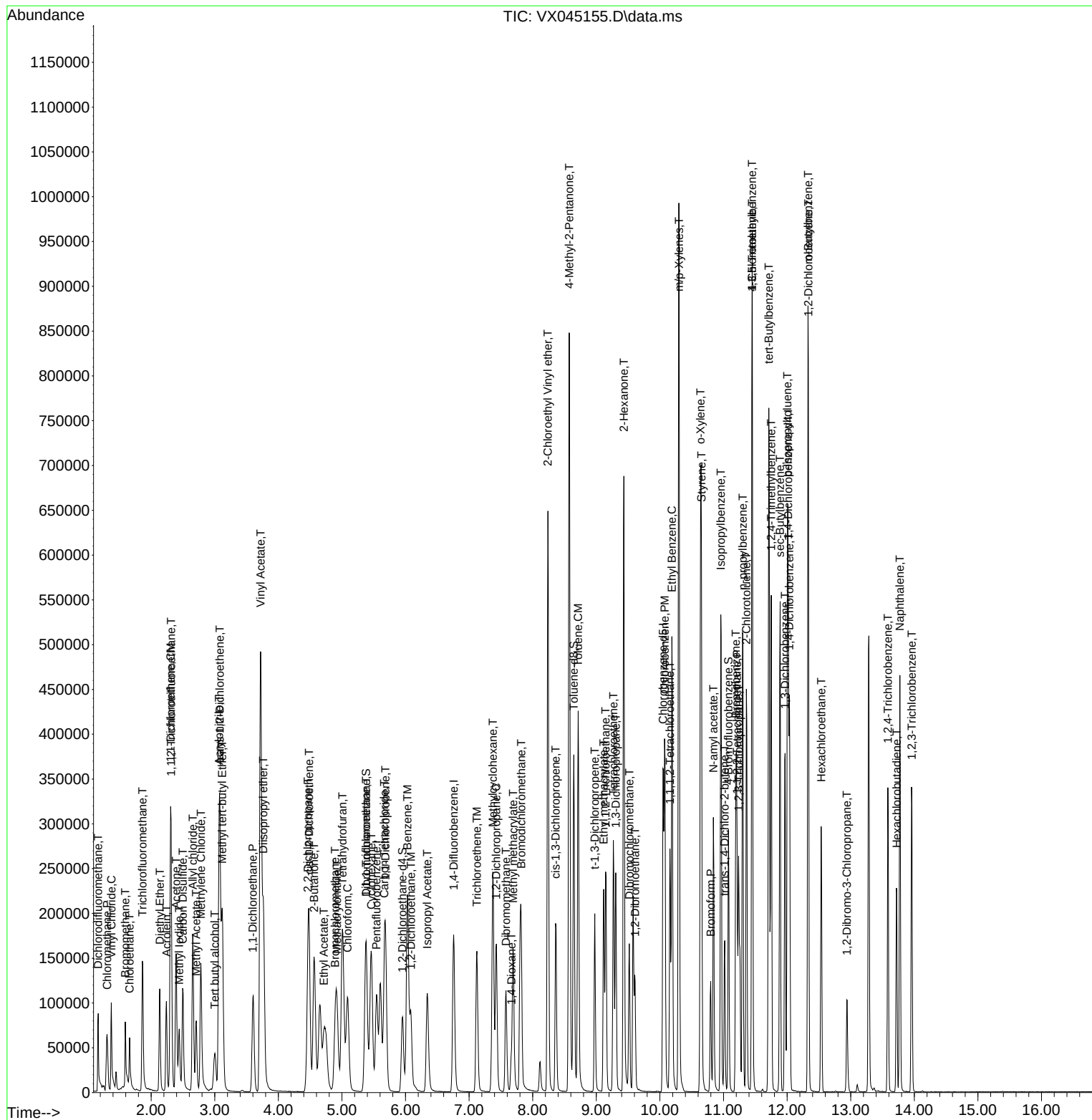
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045155.D
Acq On : 06 Mar 2025 09:56
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

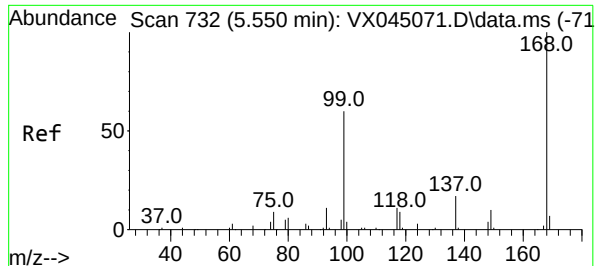
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

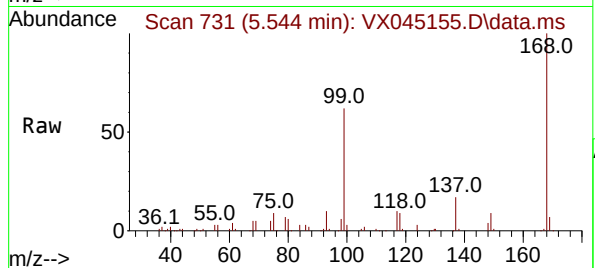
Quant Time: Mar 07 00:36:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

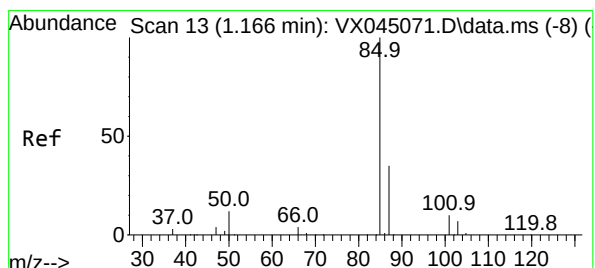
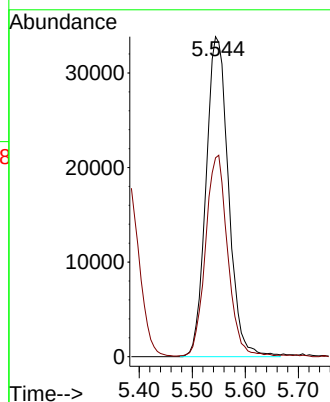
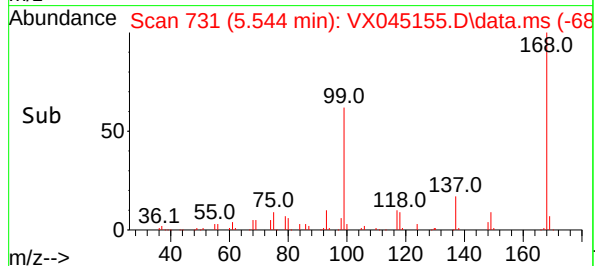
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:168 Resp: 99532
Ion Ratio Lower Upper
168 100
99 61.9 48.2 72.4

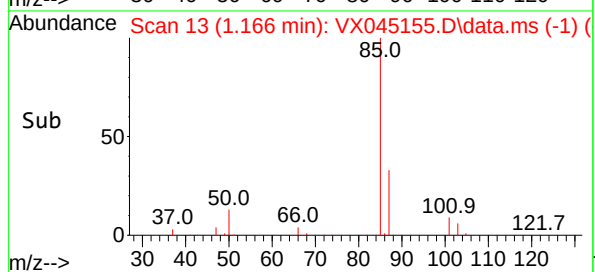
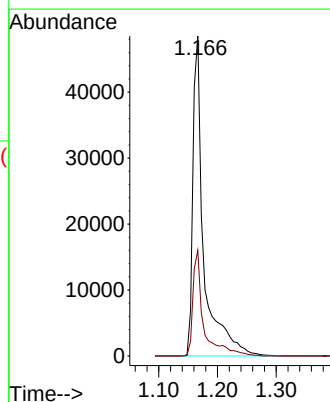
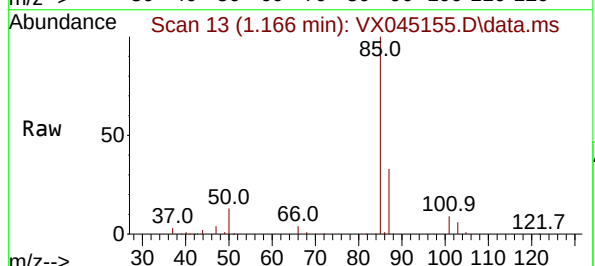
Manual Integrations
APPROVED

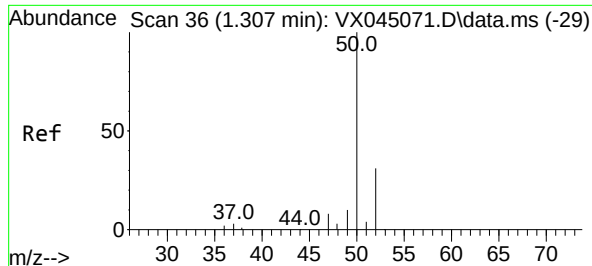
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#2
Dichlorodifluoromethane
Concen: 50.150 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 85 Resp: 62832
Ion Ratio Lower Upper
85 100
87 33.0 17.4 52.3





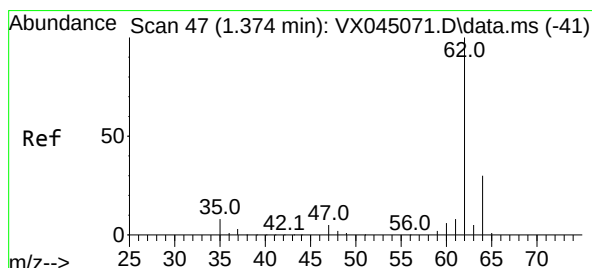
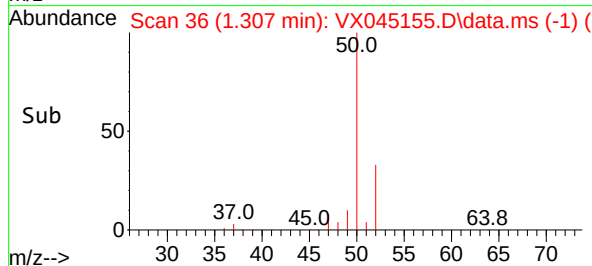
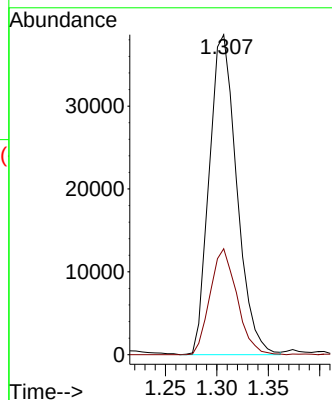
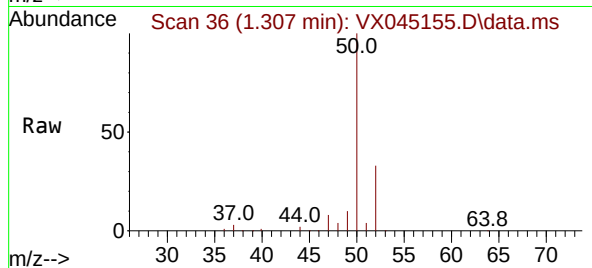
#3
Chloromethane
Concen: 46.958 ug/l
RT: 1.307 min Scan# 30
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 71998
Ion Ratio Lower Upper
50 100
52 33.1 25.0 37.4

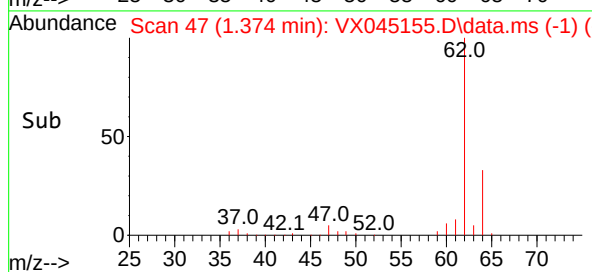
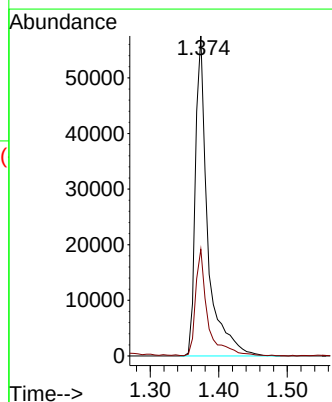
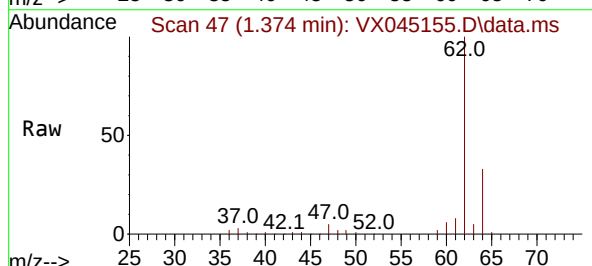
Manual Integrations
APPROVED

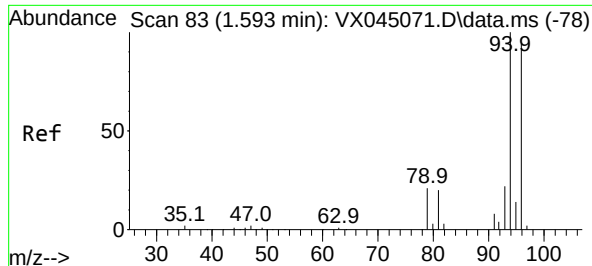
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#4
Vinyl Chloride
Concen: 47.434 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

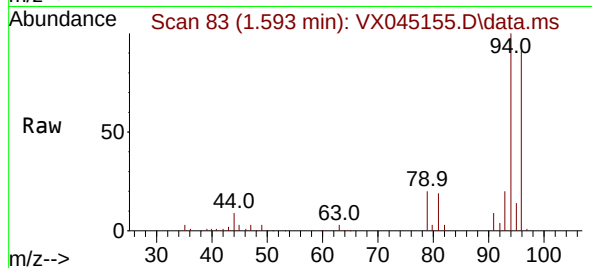
Tgt Ion: 62 Resp: 72148
Ion Ratio Lower Upper
62 100
64 33.2 24.3 36.5





#5
Bromomethane
Concen: 46.654 ug/l
RT: 1.593 min Scan# 83
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

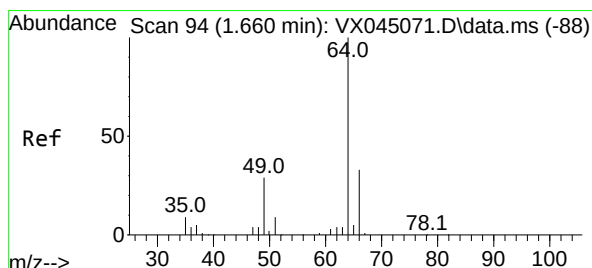
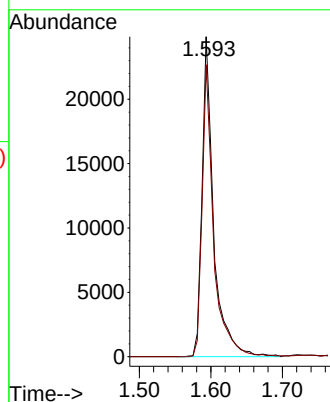
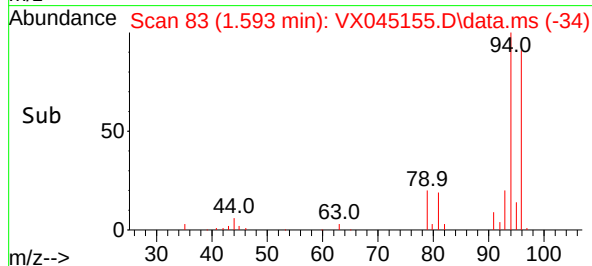
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 94 Resp: 27890
Ion Ratio Lower Upper
94 100
96 91.2 75.0 112.4

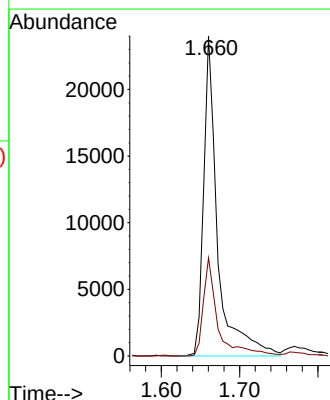
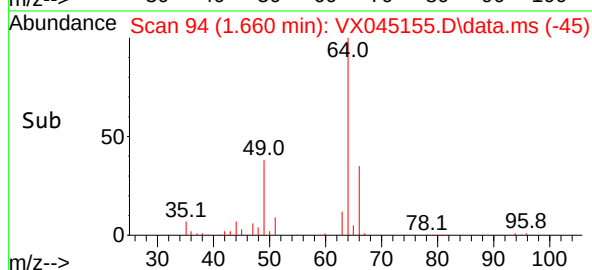
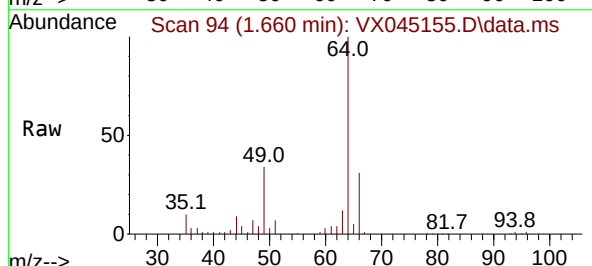
Manual Integrations
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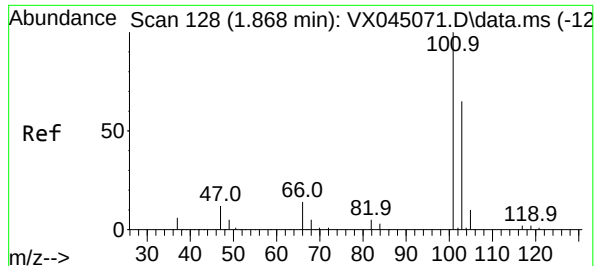
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#6
Chloroethane
Concen: 42.341 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

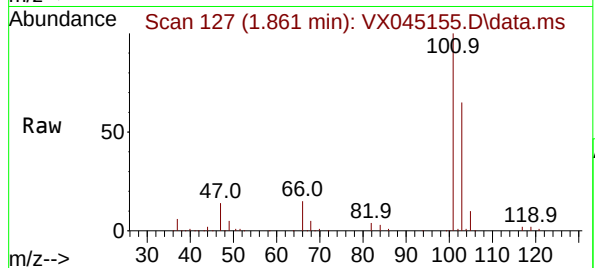
Tgt Ion: 64 Resp: 29705
Ion Ratio Lower Upper
64 100
66 30.6 26.7 40.1





#7
Trichlorofluoromethane
Concen: 48.081 ug/l
RT: 1.861 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

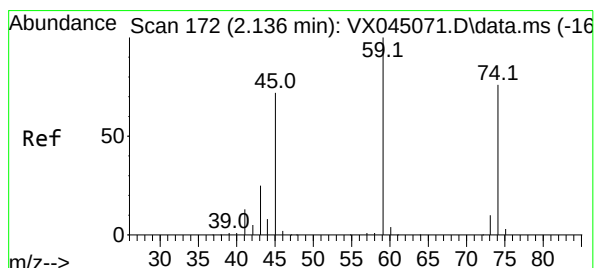
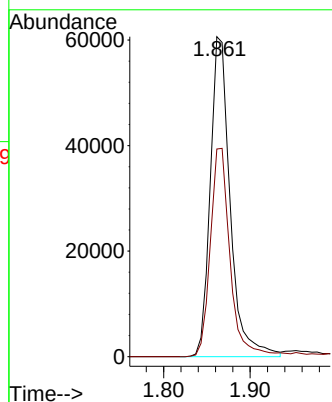
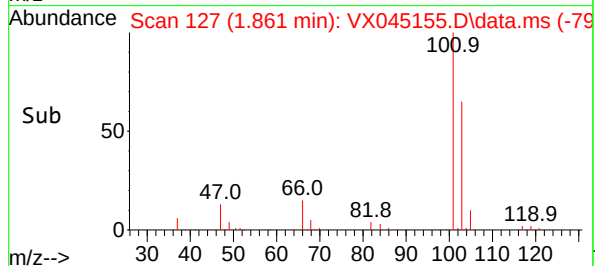
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:101 Resp: 9681
Ion Ratio Lower Upper
101 100
103 64.9 52.1 78.1

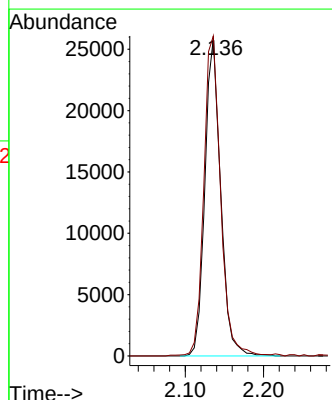
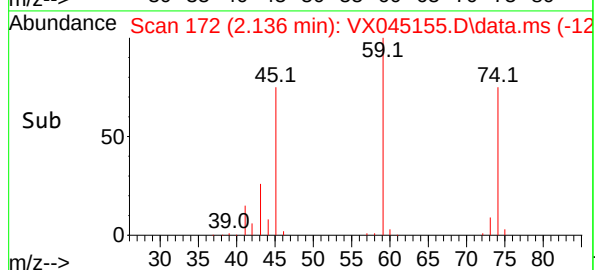
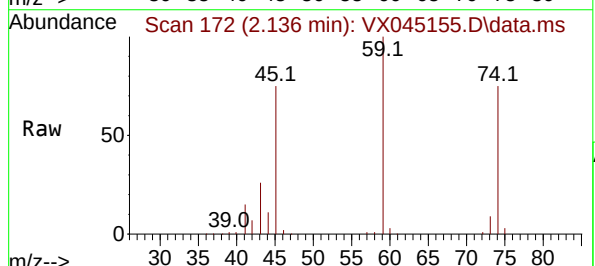
Manual Integrations
APPROVED

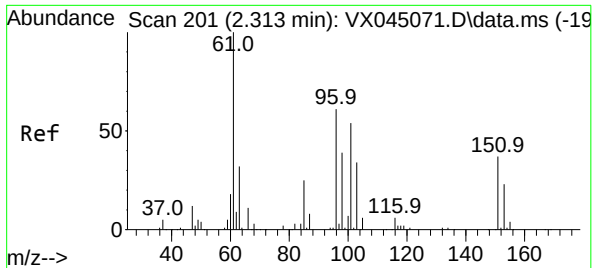
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#8
Diethyl Ether
Concen: 45.821 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 74 Resp: 36087
Ion Ratio Lower Upper
74 100
45 107.4 51.5 154.5





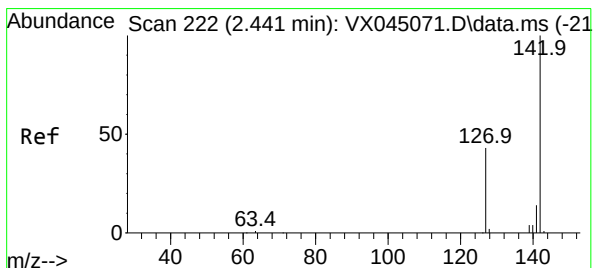
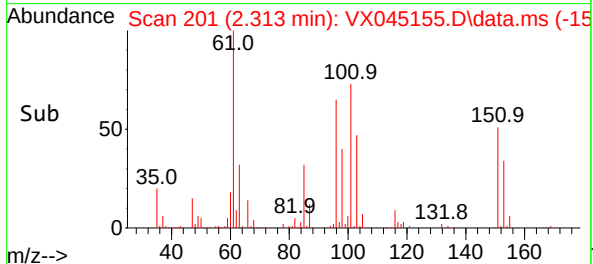
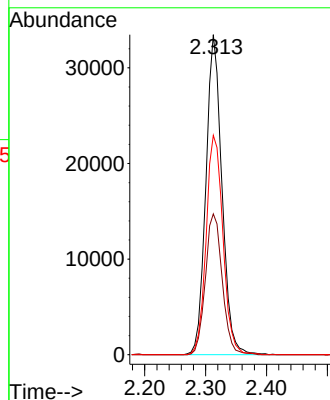
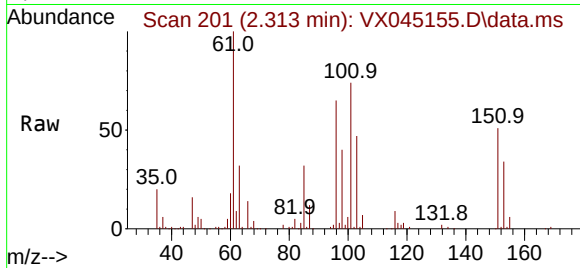
#9
1,1,2-Trichlorotrifluoroethane
Concen: 52.999 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 61310
Ion Ratio Lower Upper
101 100
85 46.2 36.2 54.4
151 71.8 56.4 84.6

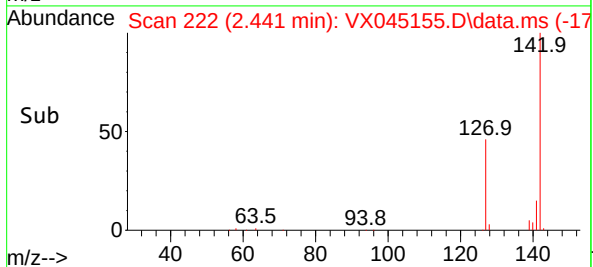
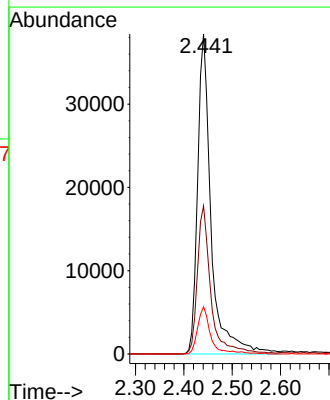
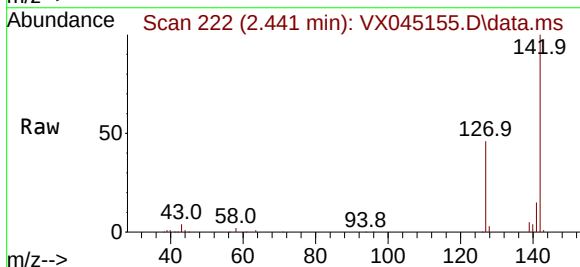
Manual Integrations
APPROVED

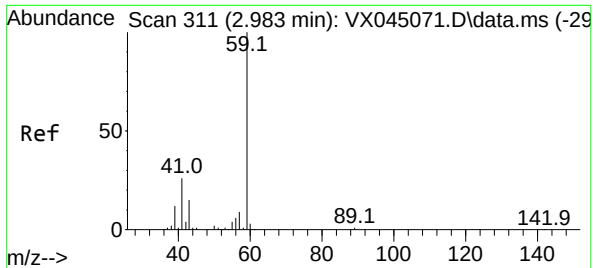
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#10
Methyl Iodide
Concen: 51.610 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:142 Resp: 74610
Ion Ratio Lower Upper
142 100
127 46.1 35.4 53.2
141 14.3 11.6 17.4





#11

Tert butyl alcohol

Concen: 195.202 ug/l

RT: 3.002 min Scan# 311

Delta R.T. 0.018 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 5853

Ion Ratio Lower Upper

59 100

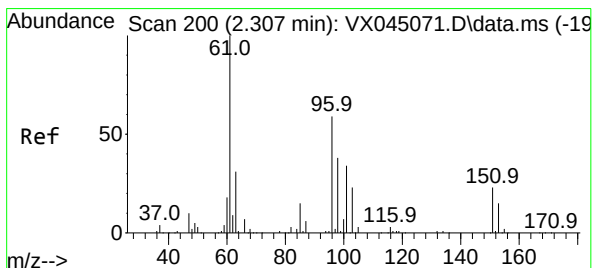
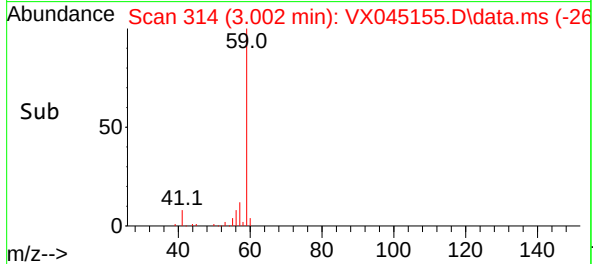
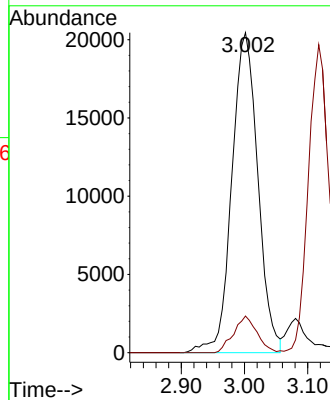
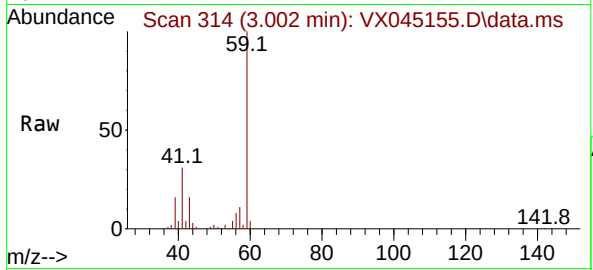
57 10.4 7.8 11.8

Manual Integrations

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Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#12

1,1-Dichloroethene

Concen: 48.789 ug/l

RT: 2.307 min Scan# 200

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

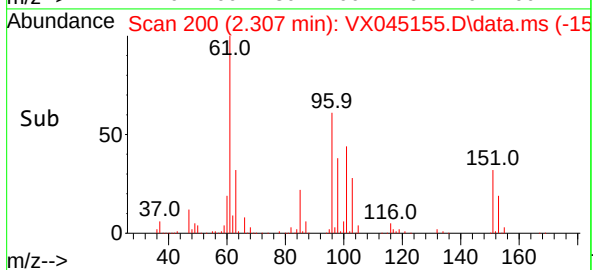
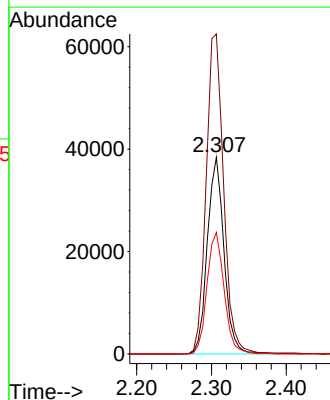
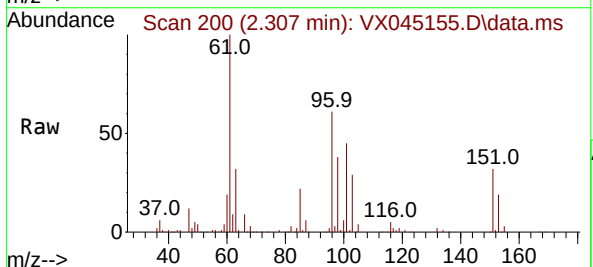
Tgt Ion: 96 Resp: 59671

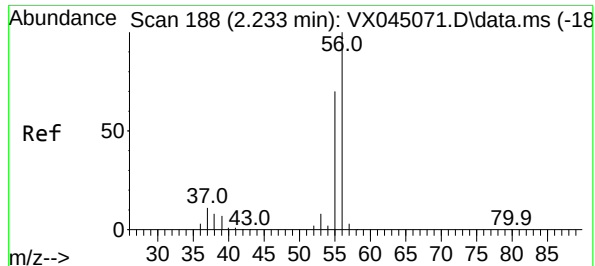
Ion Ratio Lower Upper

96 100

61 162.7 134.6 202.0

98 61.8 51.0 76.6





#13

Acrolein

Concen: 213.430 ug/l

RT: 2.239 min Scan# 188

Delta R.T. 0.006 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 7398

Ion Ratio Lower Upper

56 100

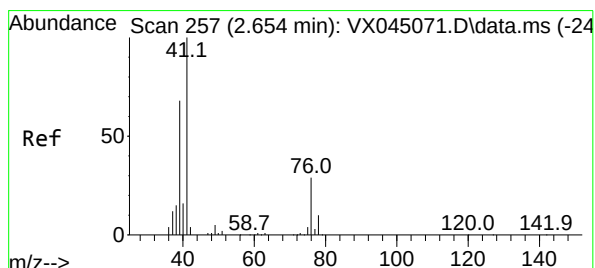
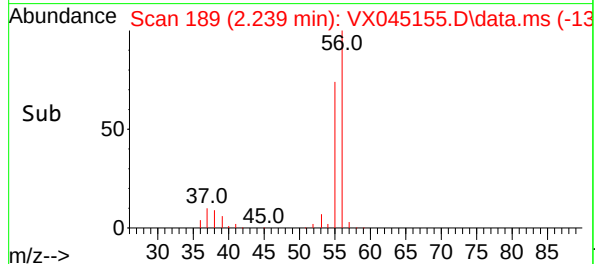
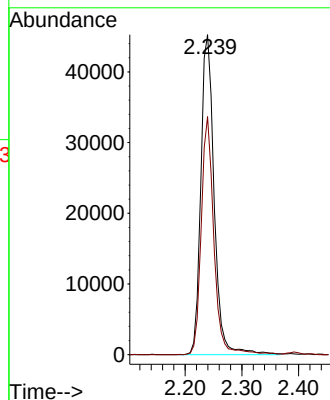
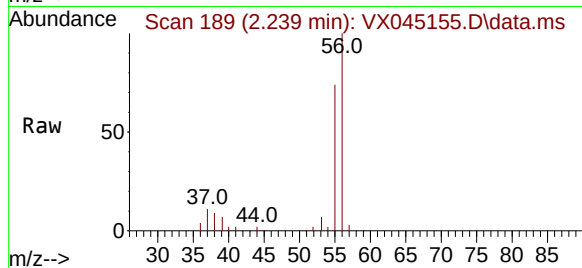
55 70.4 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#14

Allyl chloride

Concen: 50.112 ug/l

RT: 2.654 min Scan# 257

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

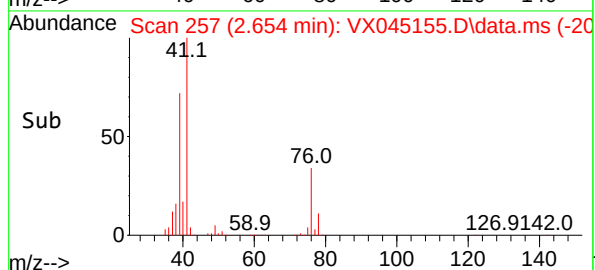
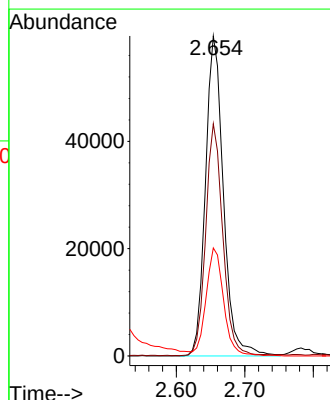
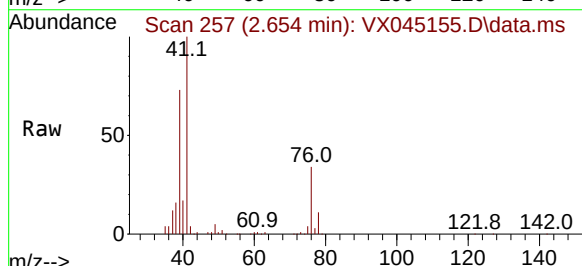
Tgt Ion: 41 Resp: 109096

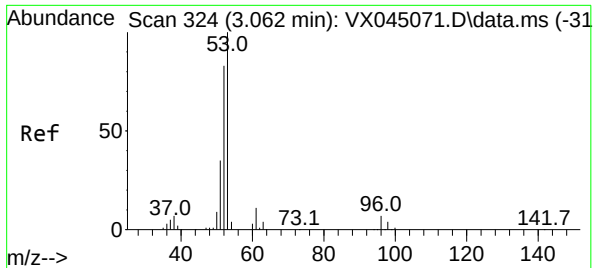
Ion Ratio Lower Upper

41 100

39 68.9 53.8 80.8

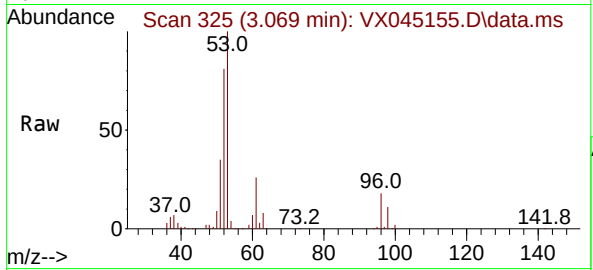
76 32.5 25.2 37.8





#15
Acrylonitrile
Concen: 246.689 ug/l
RT: 3.069 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

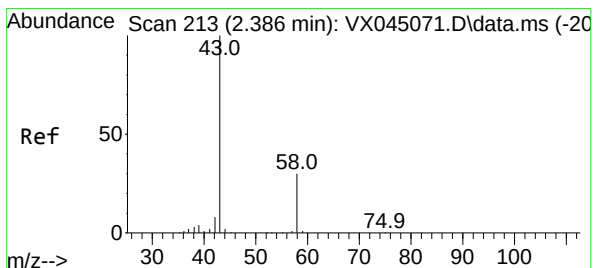
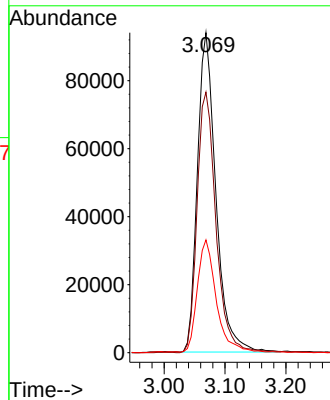
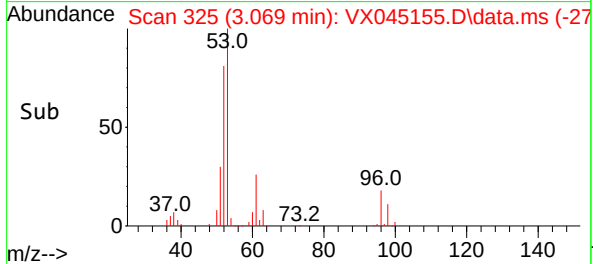
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 53 Resp: 198270
Ion Ratio Lower Upper
53 100
52 83.6 66.2 99.2
51 35.6 29.0 43.4

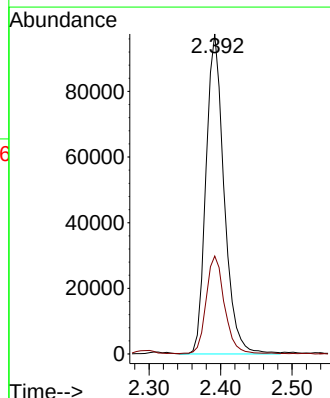
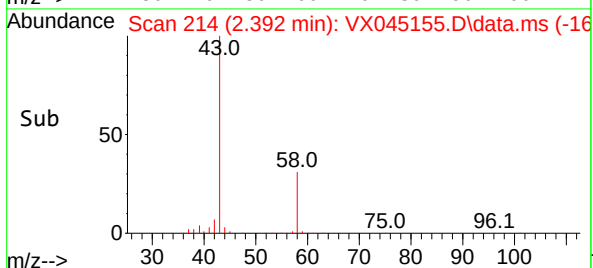
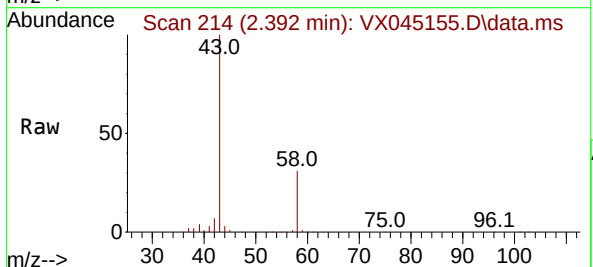
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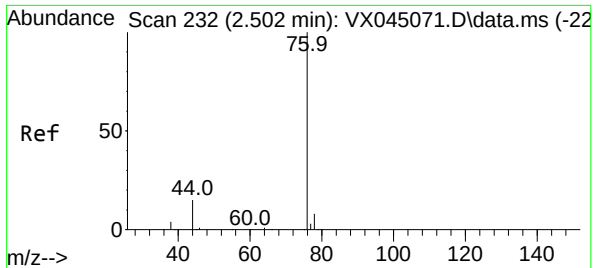
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#16
Acetone
Concen: 233.847 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 43 Resp: 171774
Ion Ratio Lower Upper
43 100
58 30.5 24.2 36.4





#17

Carbon Disulfide

Concen: 44.684 ug/l

RT: 2.495 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 14555

Ion Ratio Lower Upper

76 100

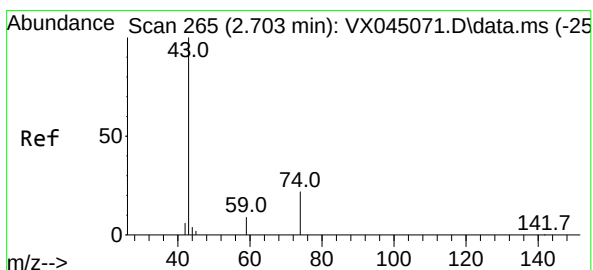
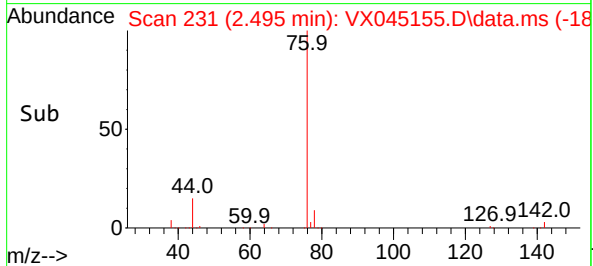
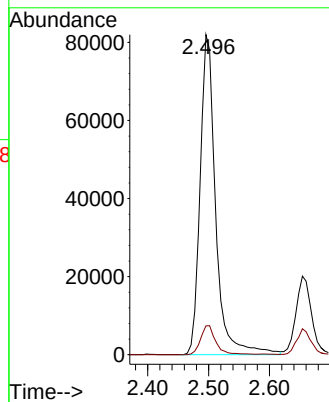
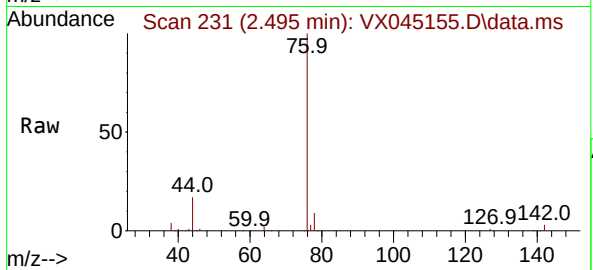
78 9.0 6.6 9.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#18

Methyl Acetate

Concen: 53.893 ug/l

RT: 2.709 min Scan# 266

Delta R.T. 0.006 min

Lab File: VX045155.D

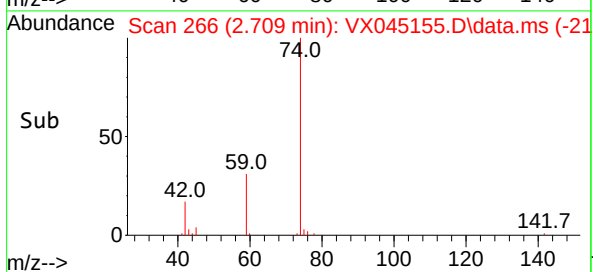
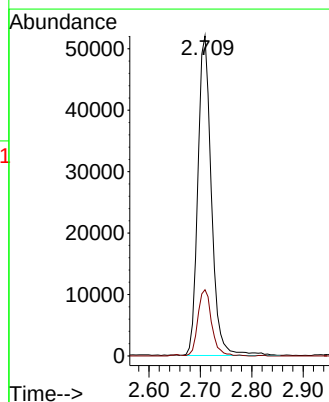
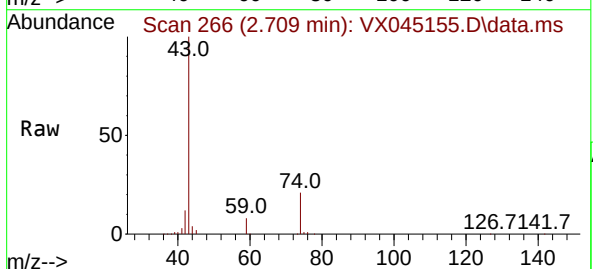
Acq: 06 Mar 2025 09:56

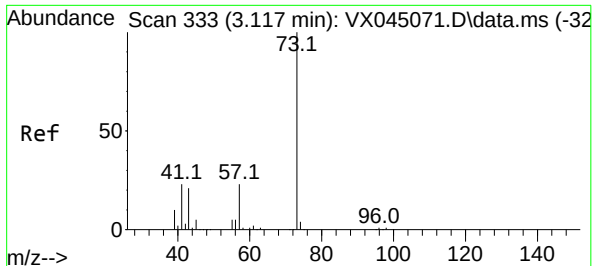
Tgt Ion: 43 Resp: 95234

Ion Ratio Lower Upper

43 100

74 20.6 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 48.872 ug/l

RT: 3.117 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 73 Resp: 20053

Ion Ratio Lower Upper

73 100

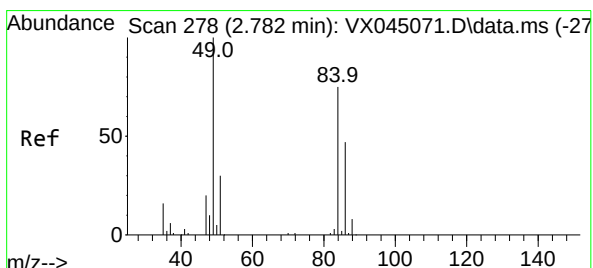
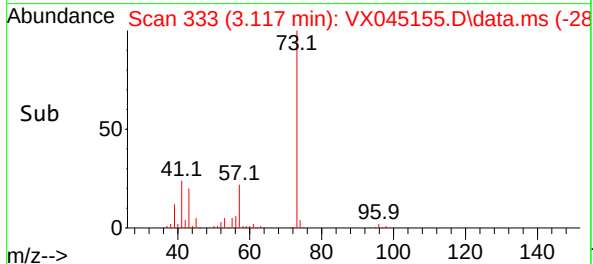
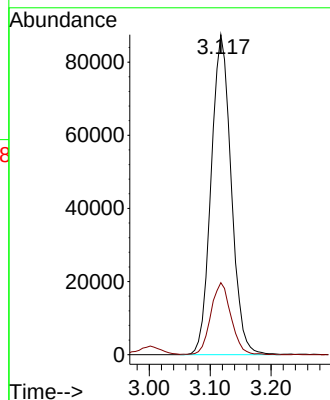
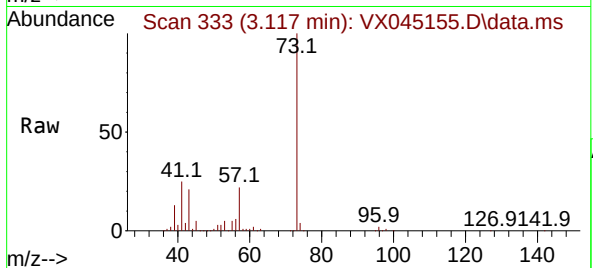
57 22.5 18.5 27.7

Manual Integrations

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Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#20

Methylene Chloride

Concen: 48.172 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Tgt Ion: 84 Resp: 70093

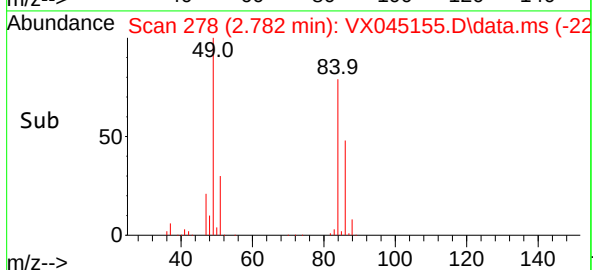
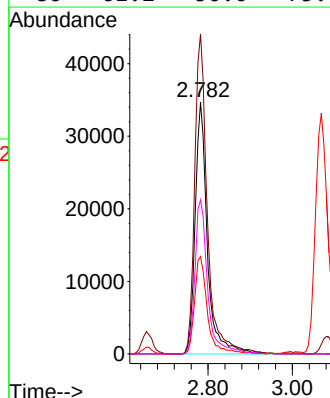
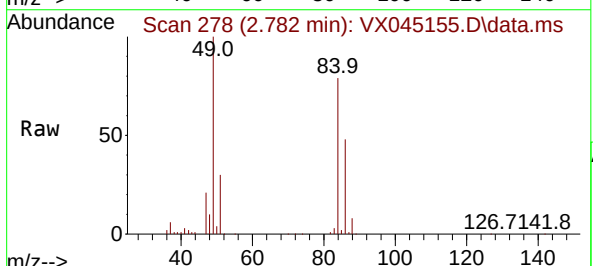
Ion Ratio Lower Upper

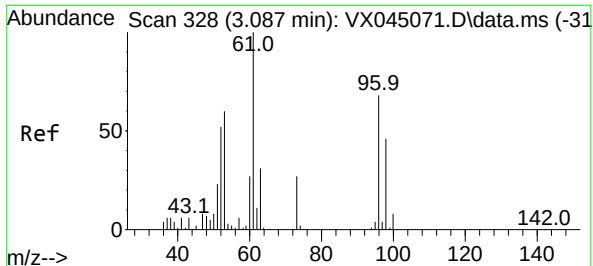
84 100

49 127.1 106.5 159.7

51 38.7 32.1 48.1

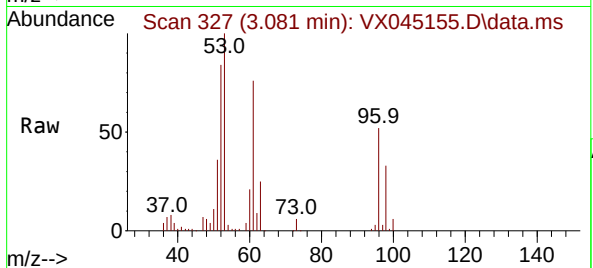
86 61.2 50.0 75.0





#21
trans-1,2-Dichloroethene
Concen: 50.255 ug/l
RT: 3.081 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

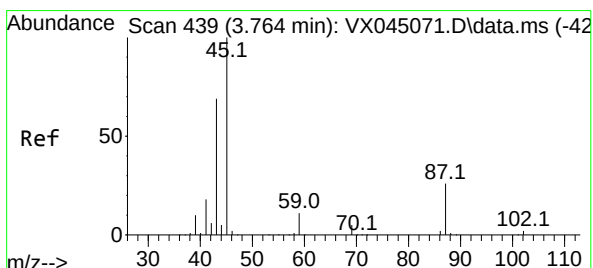
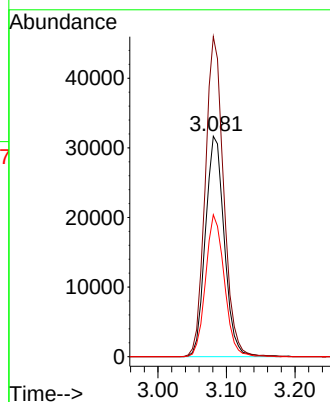
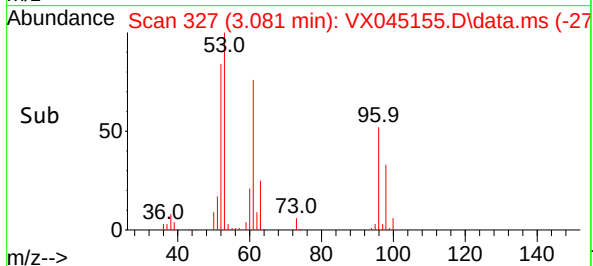
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 96 Resp: 6072
Ion Ratio Lower Upper
96 100
61 145.1 117.0 175.4
98 64.4 53.4 80.2

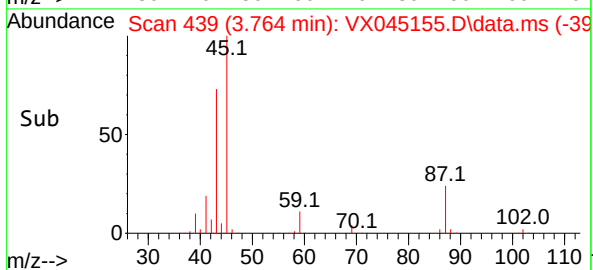
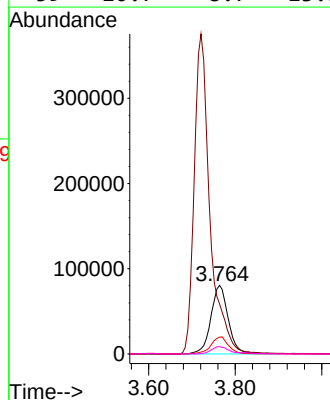
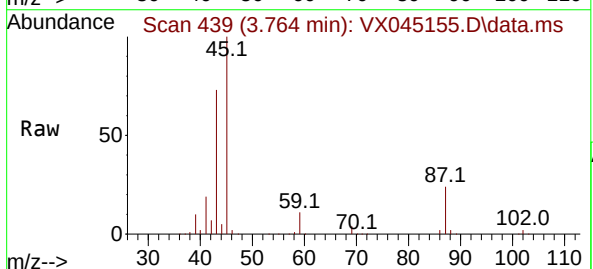
Manual Integrations
APPROVED

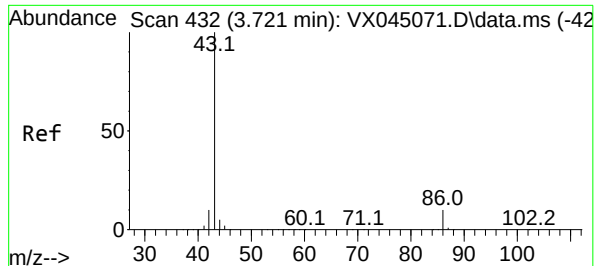
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#22
Diisopropyl ether
Concen: 50.793 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 45 Resp: 224890
Ion Ratio Lower Upper
45 100
43 72.7 54.9 82.3
87 24.4 21.0 31.4
59 10.7 8.7 13.1





#23

Vinyl Acetate

Concen: 257.151 ug/l

RT: 3.721 min Scan# 41

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 95014

Ion Ratio Lower Upper

43 100

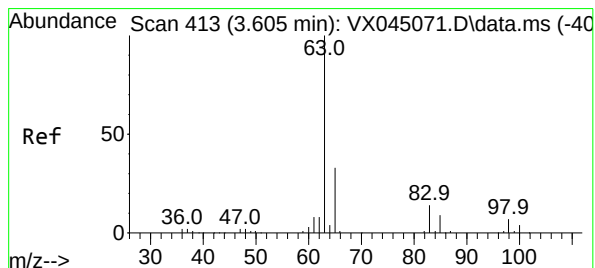
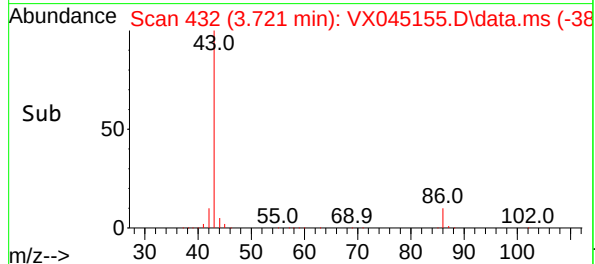
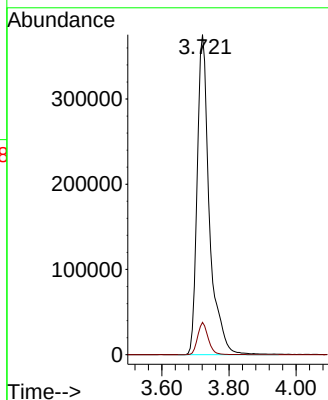
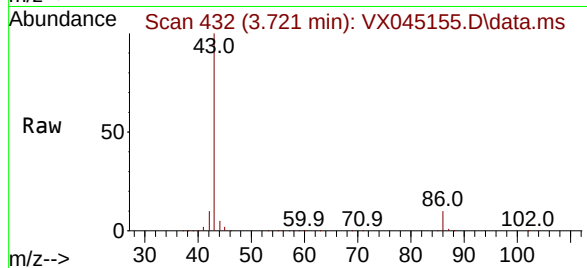
86 10.1 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#24

1,1-Dichloroethane

Concen: 48.731 ug/l

RT: 3.599 min Scan# 412

Delta R.T. -0.006 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

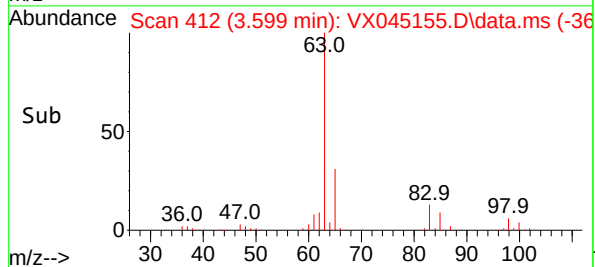
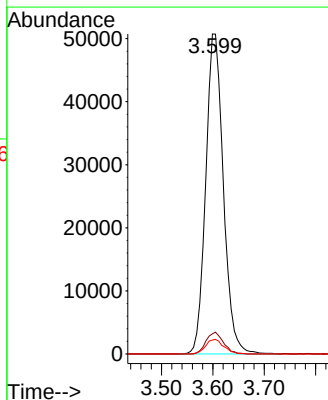
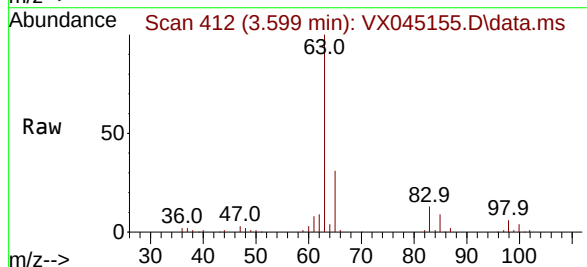
Tgt Ion: 63 Resp: 120920

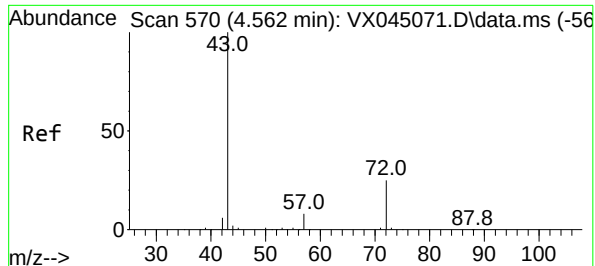
Ion Ratio Lower Upper

63 100

98 6.3 3.4 10.2

100 4.4 2.1 6.5





#25

2-Butanone

Concen: 253.939 ug/l

RT: 4.562 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 280778

Ion Ratio Lower Upper

43 100

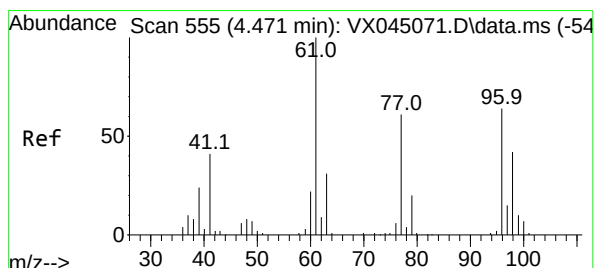
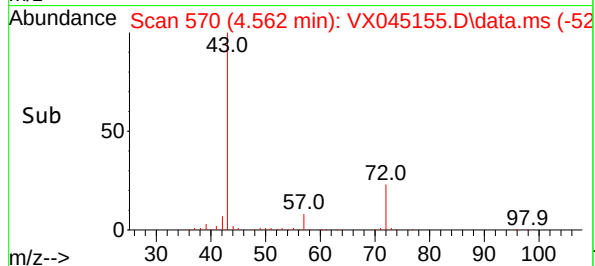
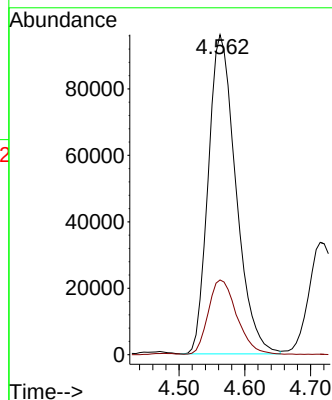
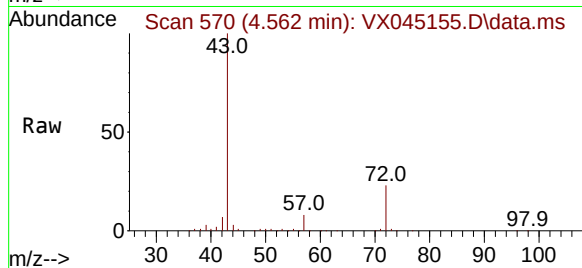
72 23.2 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#26

2,2-Dichloropropane

Concen: 68.182 ug/l

RT: 4.465 min Scan# 554

Delta R.T. -0.006 min

Lab File: VX045155.D

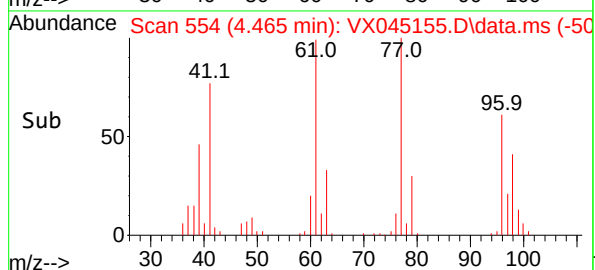
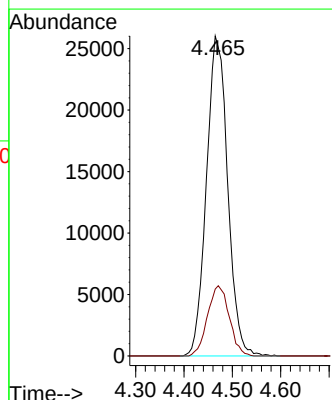
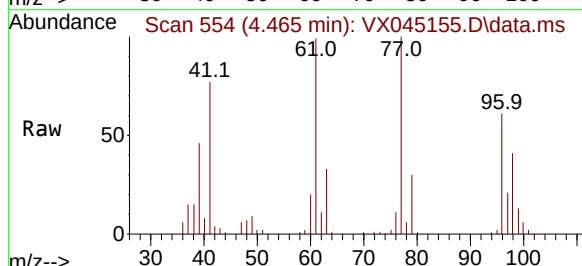
Acq: 06 Mar 2025 09:56

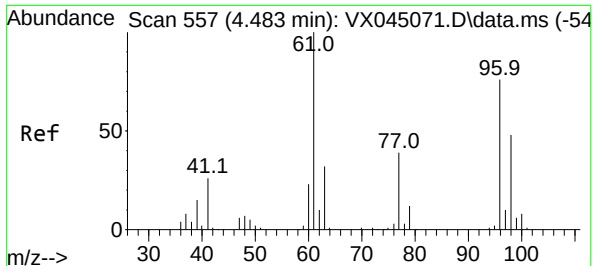
Tgt Ion: 77 Resp: 79357

Ion Ratio Lower Upper

77 100

97 22.4 12.4 37.0





#27

cis-1,2-Dichloroethene

Concen: 50.079 ug/l

RT: 4.483 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 74690

Ion Ratio Lower Upper

96 100

61 145.5 0.0 283.2

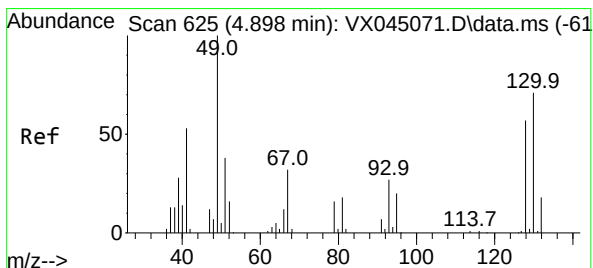
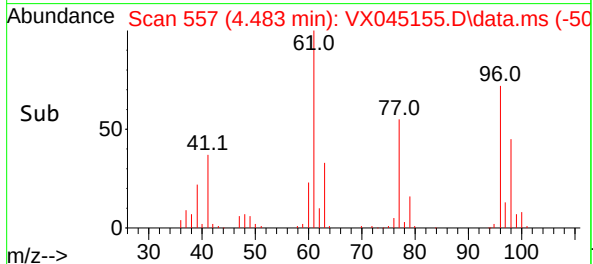
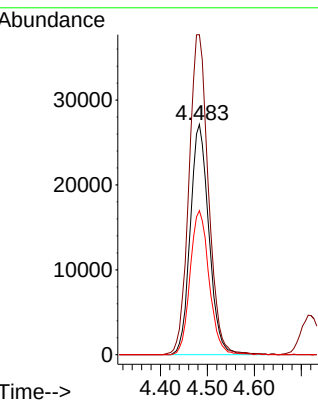
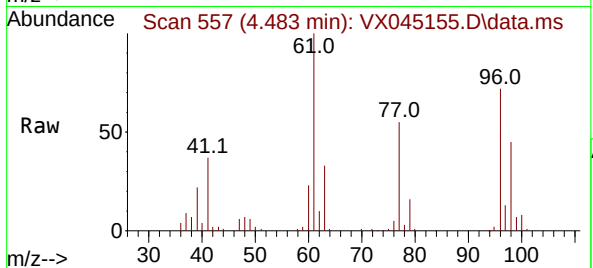
98 63.7 0.0 128.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#28

Bromochloromethane

Concen: 46.329 ug/l

RT: 4.891 min Scan# 624

Delta R.T. -0.006 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

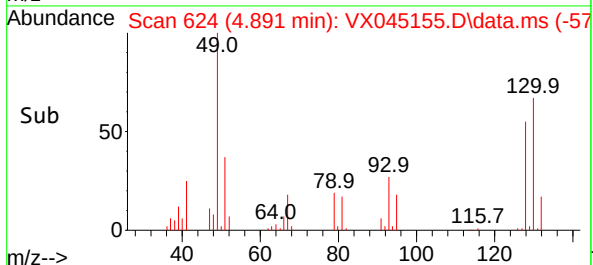
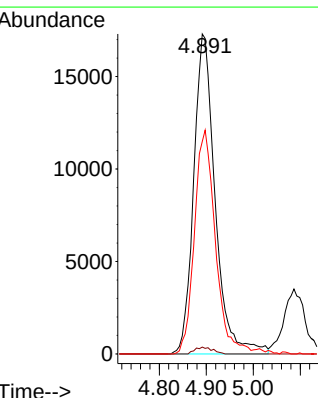
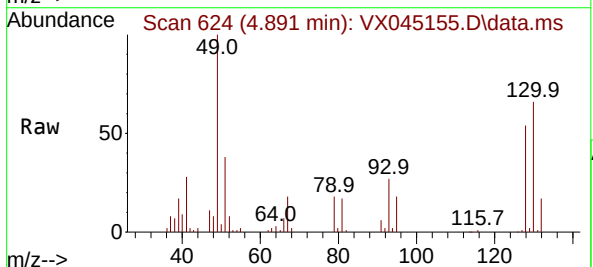
Tgt Ion: 49 Resp: 54795

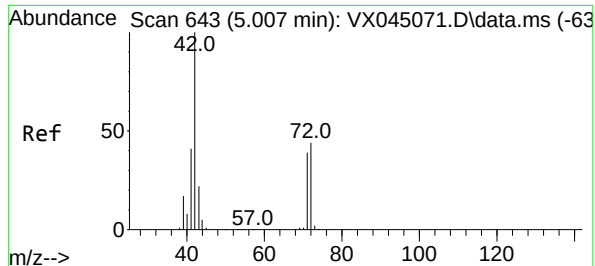
Ion Ratio Lower Upper

49 100

129 1.8 0.0 3.4

130 68.4 56.1 84.1





#29

Tetrahydrofuran

Concen: 244.426 ug/l

RT: 5.007 min Scan# 643

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 18149

Ion Ratio Lower Upper

42 100

72 41.9 34.1 51.1

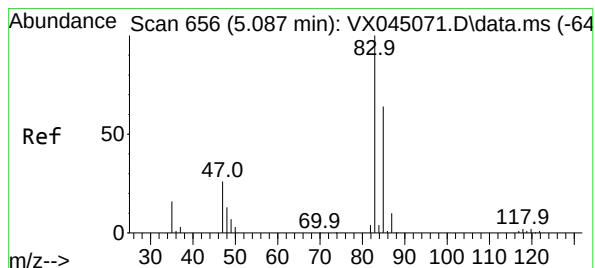
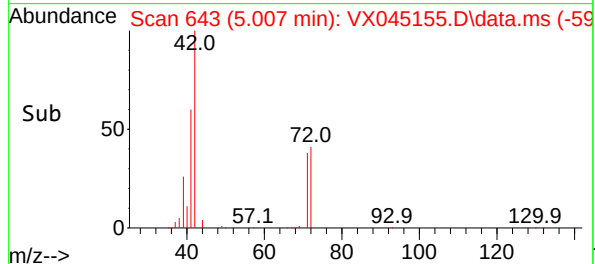
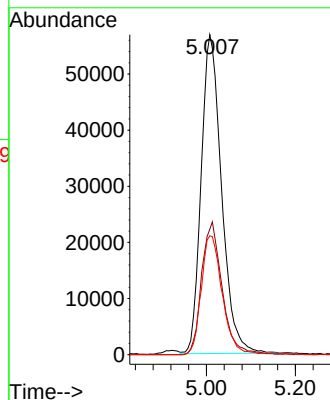
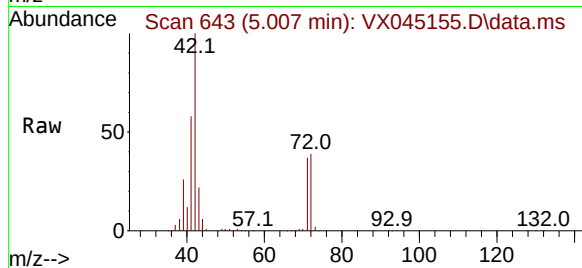
71 38.3 31.4 47.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#30

Chloroform

Concen: 48.804 ug/l

RT: 5.087 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX045155.D

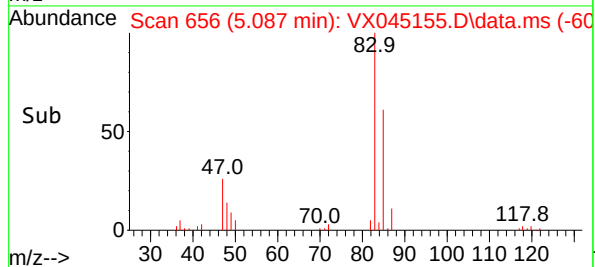
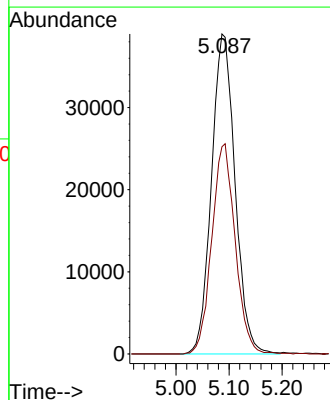
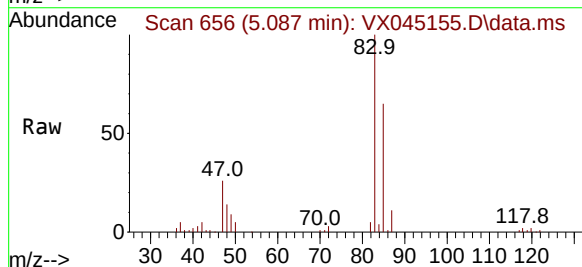
Acq: 06 Mar 2025 09:56

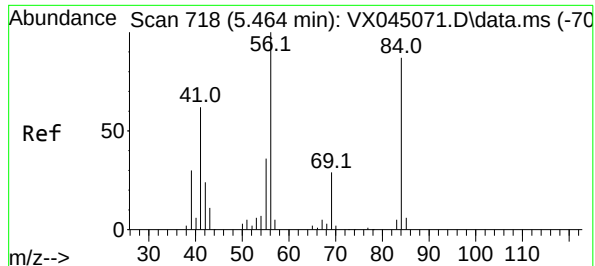
Tgt Ion: 83 Resp: 120327

Ion Ratio Lower Upper

83 100

85 64.7 51.4 77.2





#31

Cyclohexane

Concen: 50.191 ug/l

RT: 5.464 min Scan# 718

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 10811

Ion Ratio Lower Upper

56 100

69 29.4 23.4 35.2

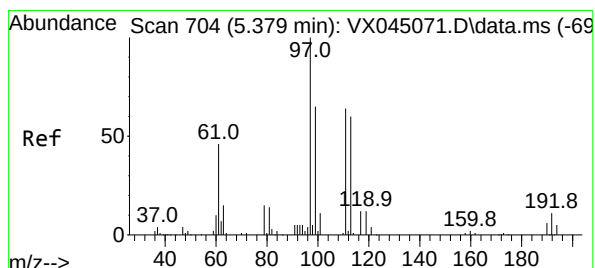
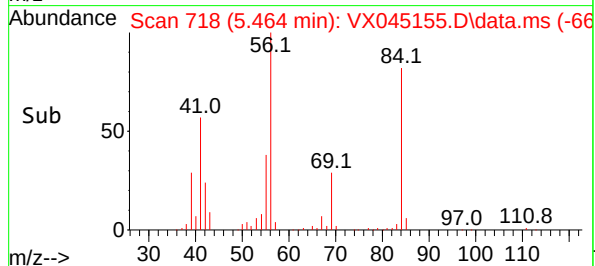
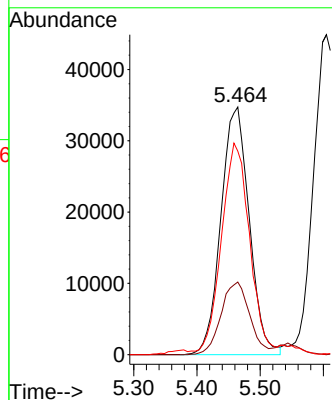
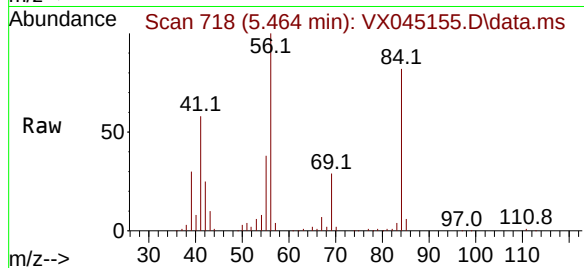
84 80.2 69.4 104.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#32

1,1,1-Trichloroethane

Concen: 48.875 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

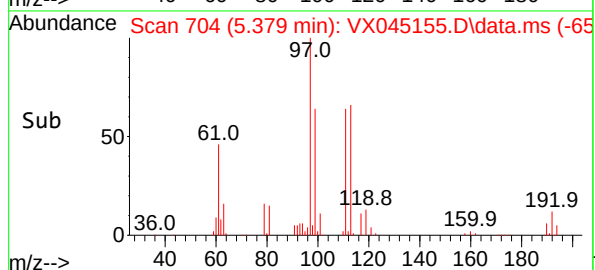
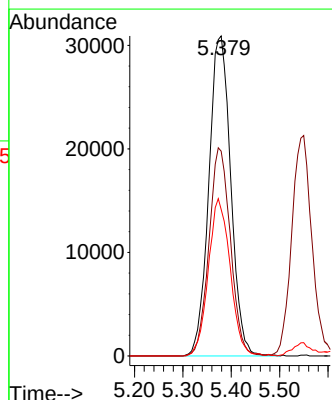
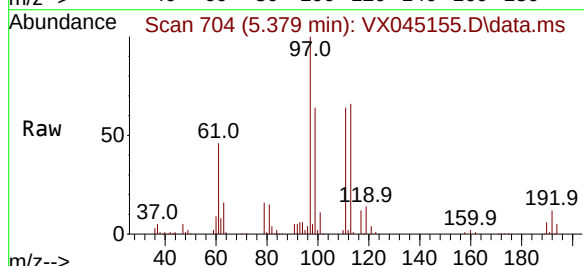
Tgt Ion: 97 Resp: 97325

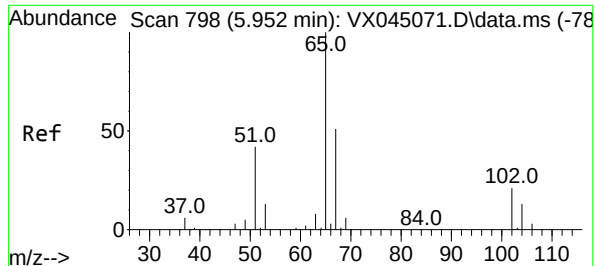
Ion Ratio Lower Upper

97 100

99 63.6 51.6 77.4

61 49.0 38.4 57.6





#33

1,2-Dichloroethane-d4

Concen: 49.233 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 77940

Ion Ratio Lower Upper

65 100

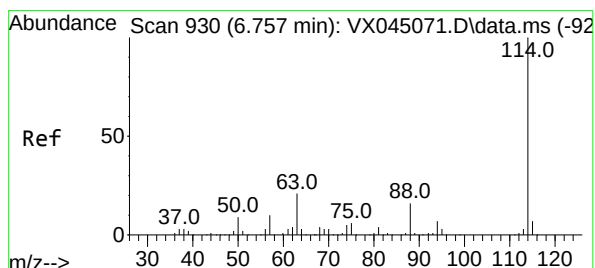
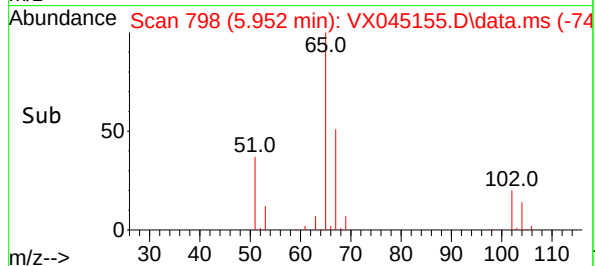
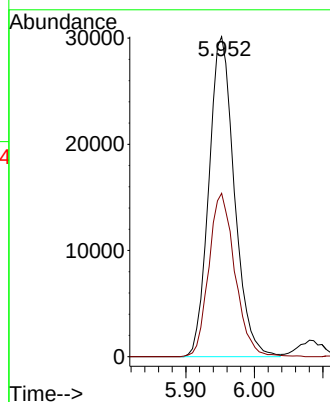
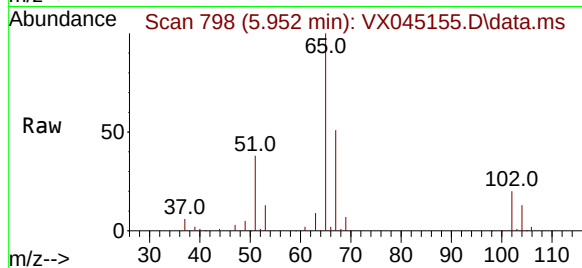
67 52.3 0.0 106.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

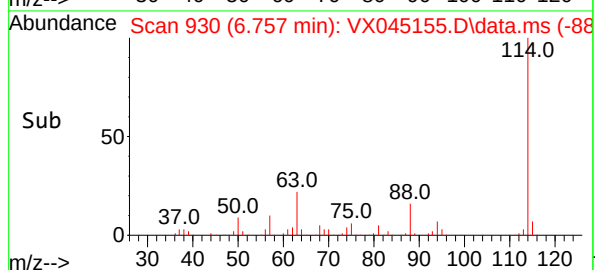
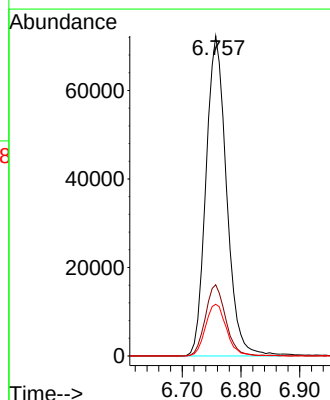
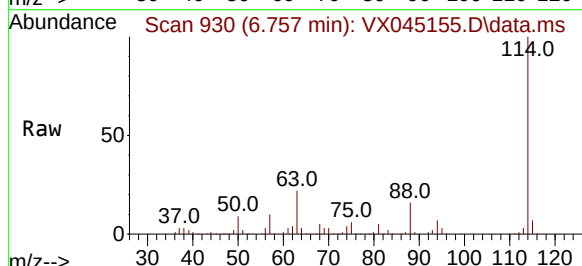
Tgt Ion:114 Resp: 175834

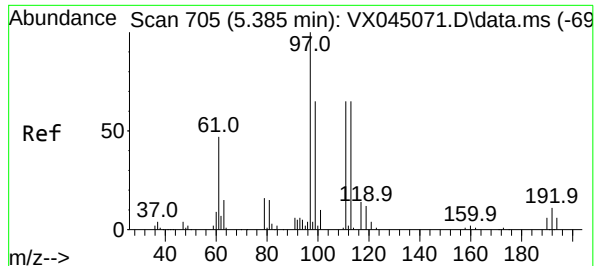
Ion Ratio Lower Upper

114 100

63 22.2 0.0 41.8

88 16.2 0.0 32.8





#35

Dibromofluoromethane

Concen: 50.978 ug/l

RT: 5.379 min Scan# 705

Delta R.T. -0.006 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:113 Resp: 59938

Ion Ratio Lower Upper

113 100

111 101.6 81.8 122.6

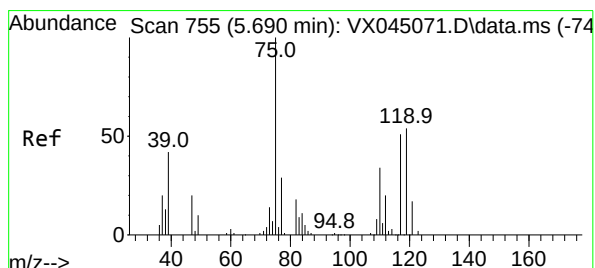
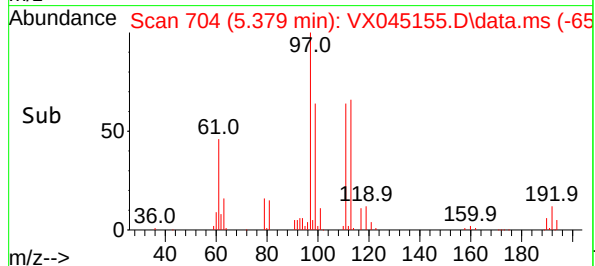
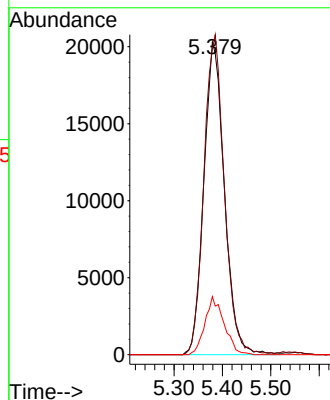
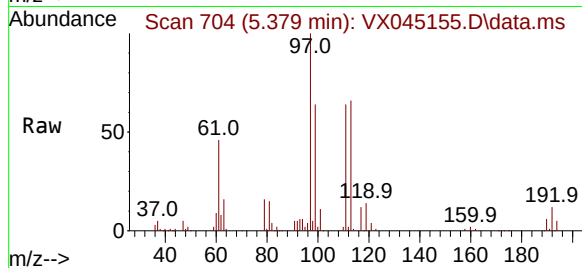
192 17.3 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#36

1,1-Dichloropropene

Concen: 49.941 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

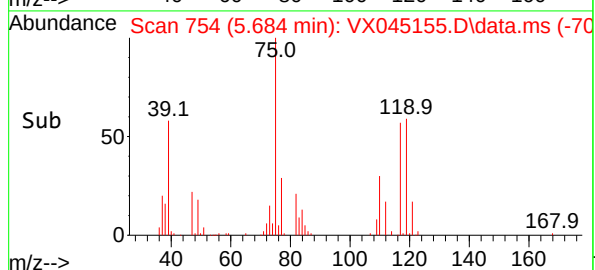
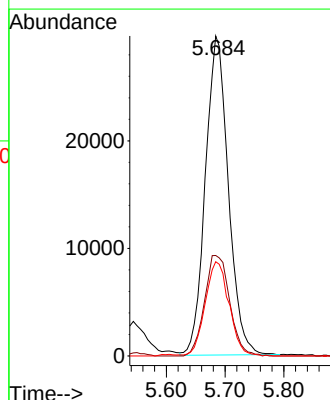
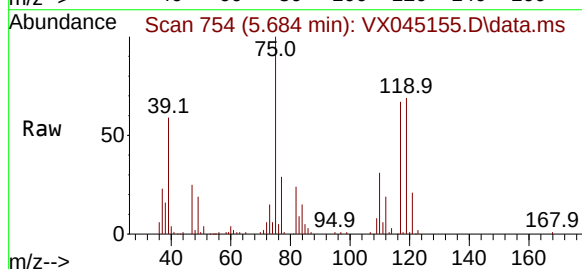
Tgt Ion: 75 Resp: 80527

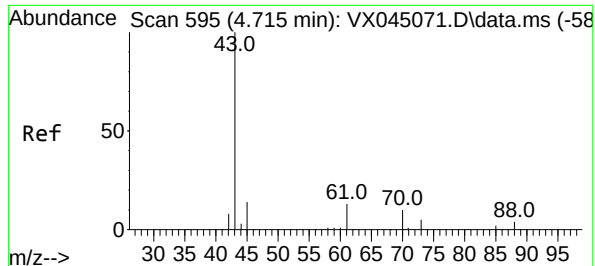
Ion Ratio Lower Upper

75 100

110 34.4 16.9 50.6

77 30.7 24.5 36.7





#37

Ethyl Acetate

Concen: 50.173 ug/l

RT: 4.715 min Scan# 595

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 104240

Ion Ratio Lower Upper

43 100

61 13.2 10.8 16.2

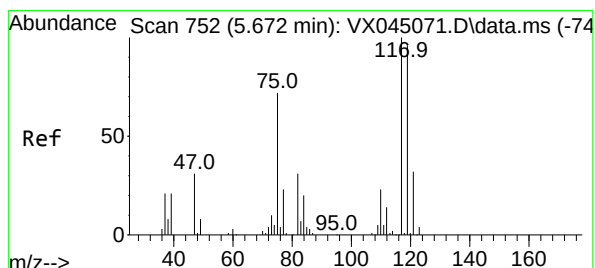
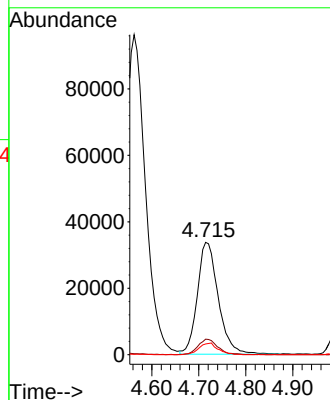
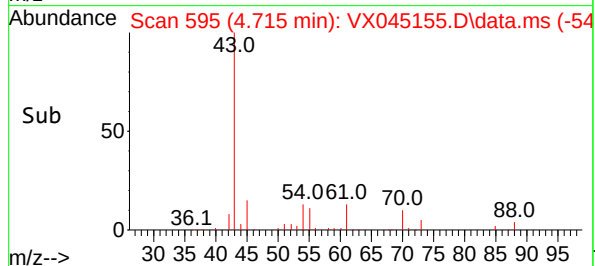
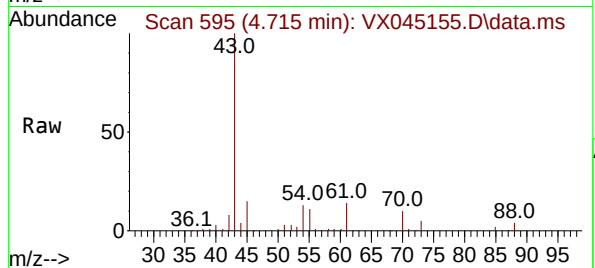
70 9.5 7.7 11.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#38

Carbon Tetrachloride

Concen: 49.163 ug/l

RT: 5.666 min Scan# 751

Delta R.T. -0.006 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

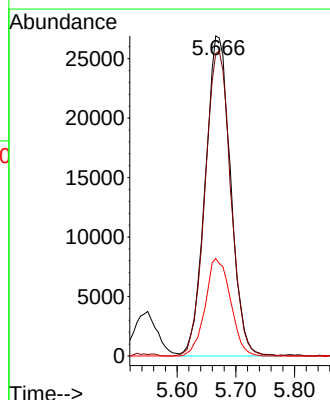
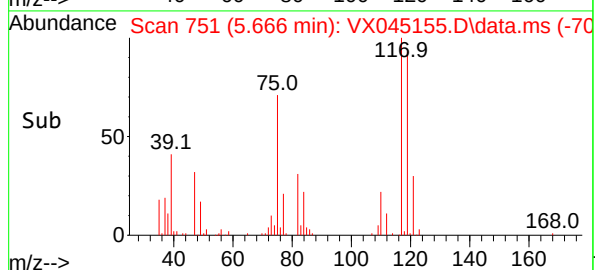
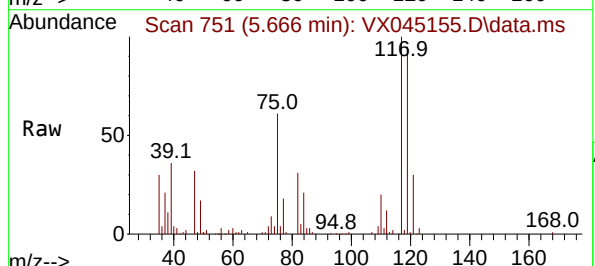
Tgt Ion:117 Resp: 80480

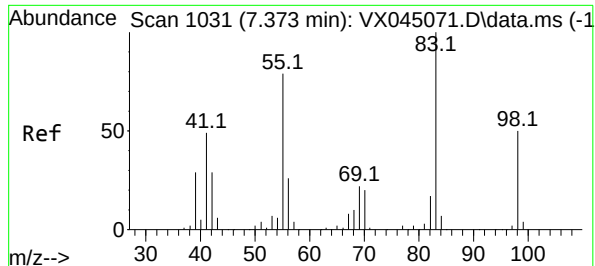
Ion Ratio Lower Upper

117 100

119 94.2 76.7 115.1

121 30.4 25.5 38.3





#39

Methylcyclohexane

Concen: 54.417 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 105138

Ion Ratio Lower Upper

83 100

55 80.5 63.0 94.4

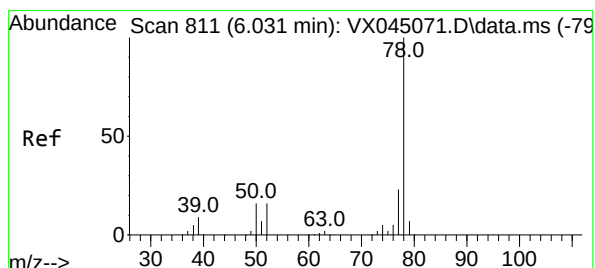
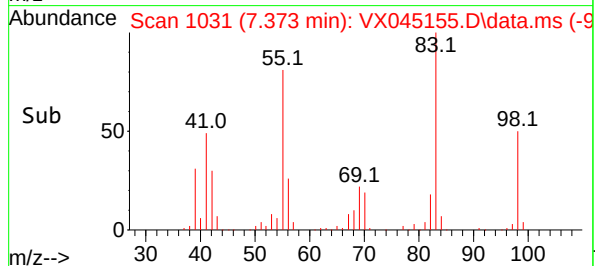
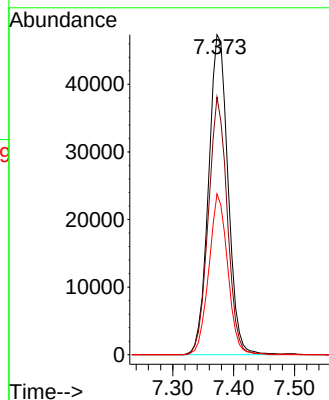
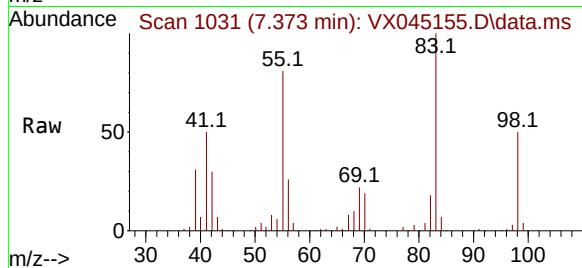
98 50.2 39.7 59.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#40

Benzene

Concen: 50.564 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX045155.D

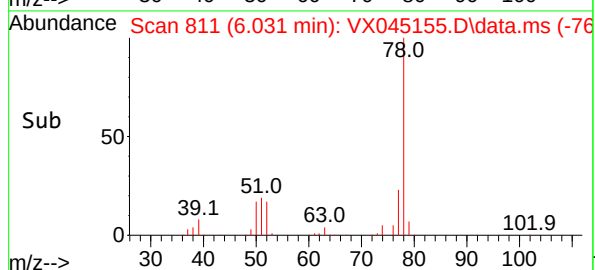
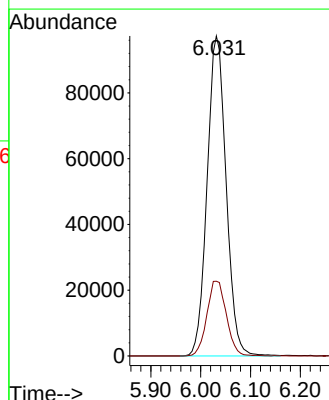
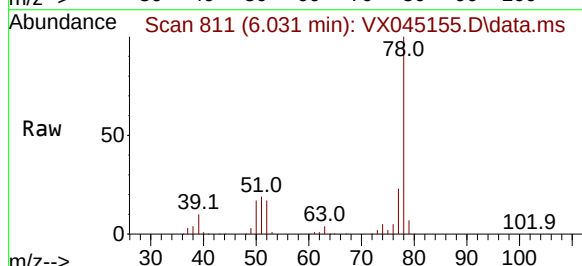
Acq: 06 Mar 2025 09:56

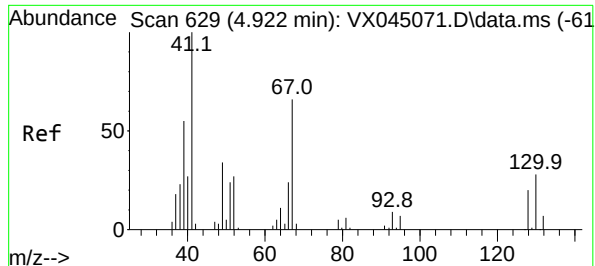
Tgt Ion: 78 Resp: 257458

Ion Ratio Lower Upper

78 100

77 23.3 18.8 28.2





#41

Methacrylonitrile

Concen: 51.935 ug/l

RT: 4.922 min Scan# 61

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 41 Resp: 5834

Ion Ratio Lower Upper

41 100

39 55.9 44.6 67.0

67 70.7 53.9 80.9

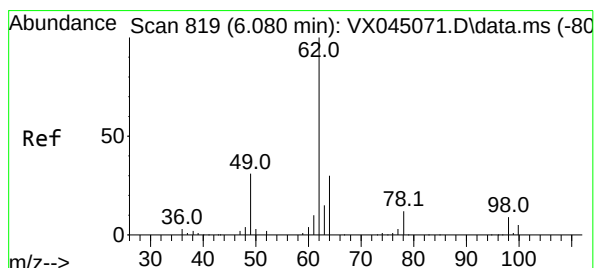
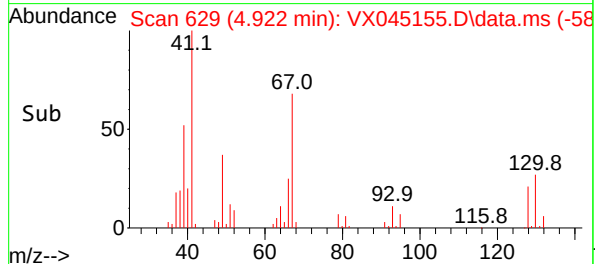
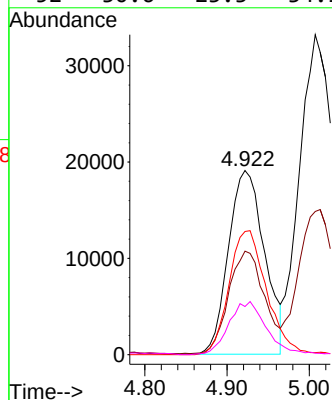
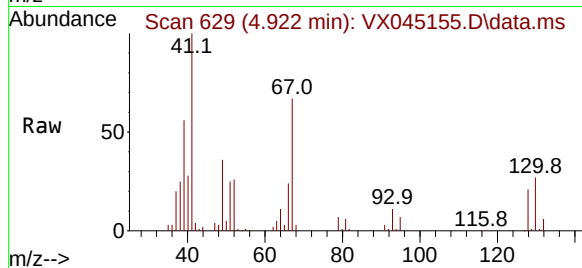
52 30.6 23.3 34.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#42

1,2-Dichloroethane

Concen: 51.224 ug/l

RT: 6.086 min Scan# 820

Delta R.T. 0.006 min

Lab File: VX045155.D

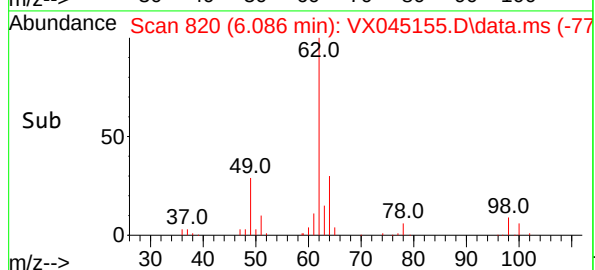
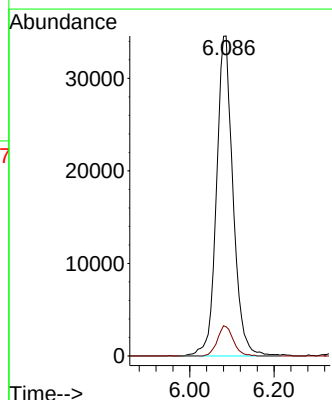
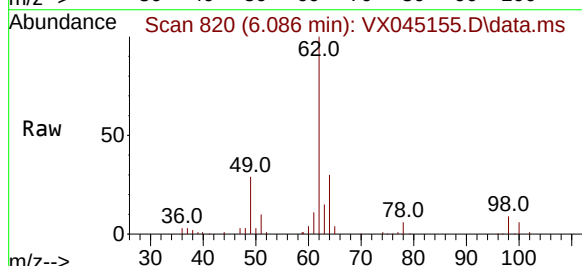
Acq: 06 Mar 2025 09:56

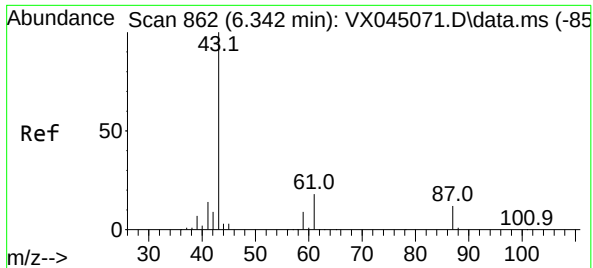
Tgt Ion: 62 Resp: 93921

Ion Ratio Lower Upper

62 100

98 9.0 0.0 18.2





#43

Isopropyl Acetate

Concen: 51.671 ug/l

RT: 6.342 min Scan# 862

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 158752

Ion Ratio Lower Upper

43 100

61 18.2 14.9 22.3

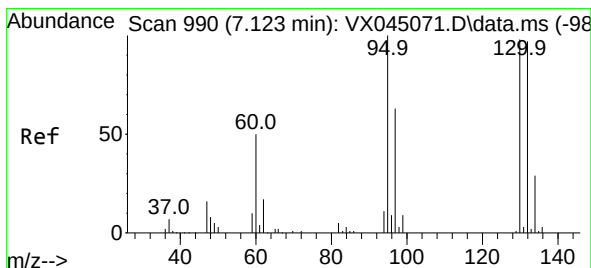
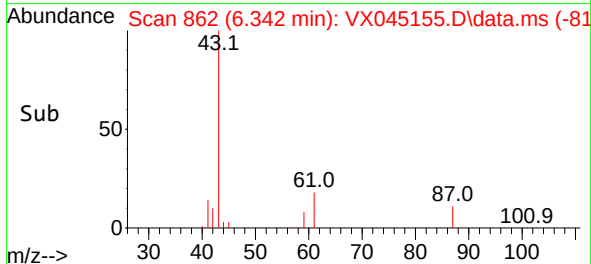
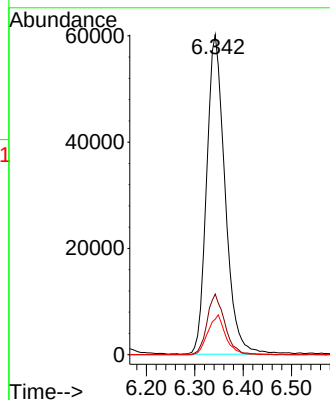
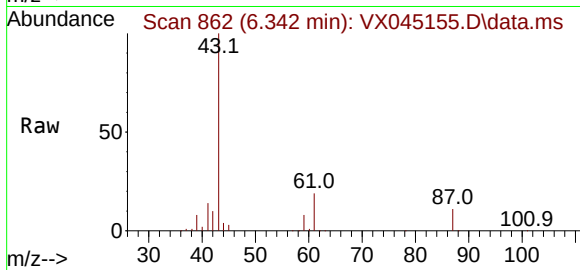
87 11.9 9.4 14.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#44

Trichloroethene

Concen: 50.205 ug/l

RT: 7.123 min Scan# 990

Delta R.T. 0.000 min

Lab File: VX045155.D

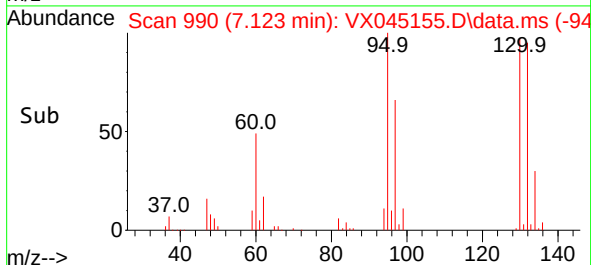
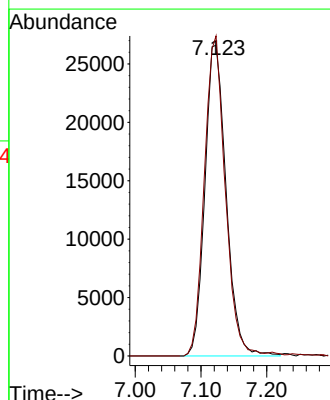
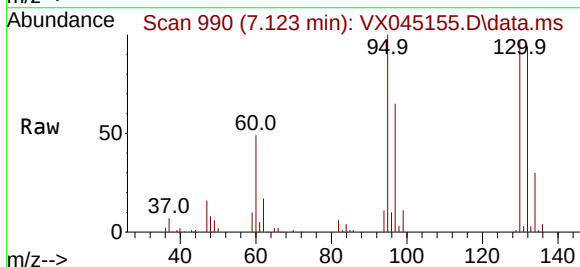
Acq: 06 Mar 2025 09:56

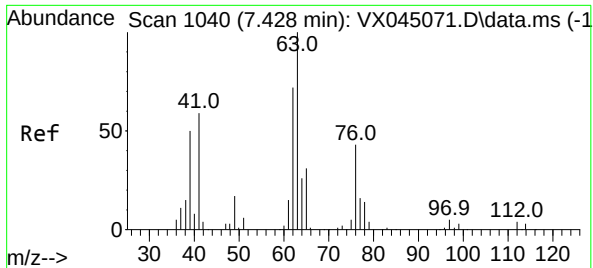
Tgt Ion:130 Resp: 60024

Ion Ratio Lower Upper

130 100

95 103.0 0.0 205.0





#45

1,2-Dichloropropane

Concen: 50.625 ug/l

RT: 7.428 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 66274

Ion Ratio Lower Upper

63 100

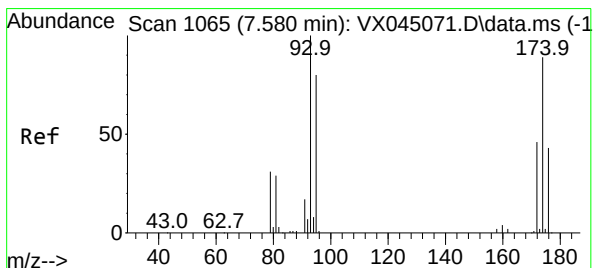
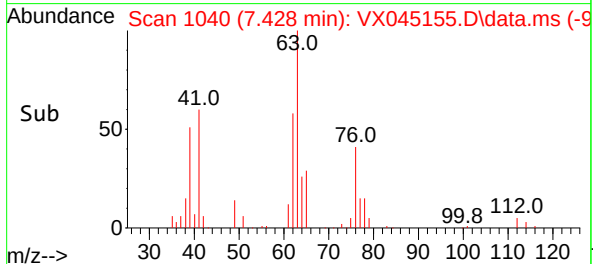
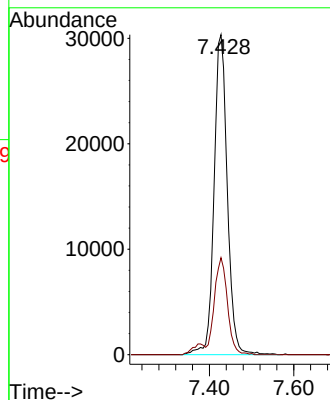
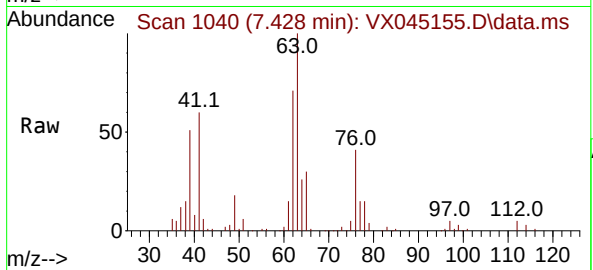
65 30.3 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#46

Dibromomethane

Concen: 51.739 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

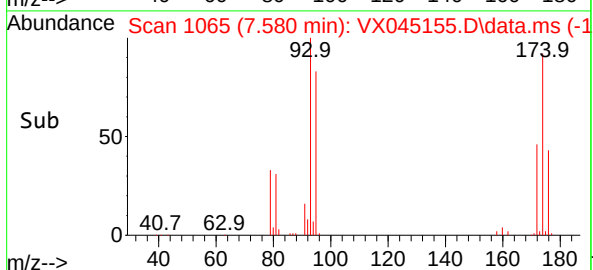
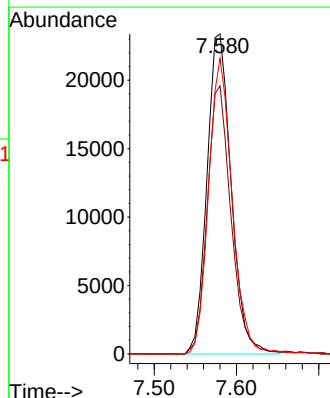
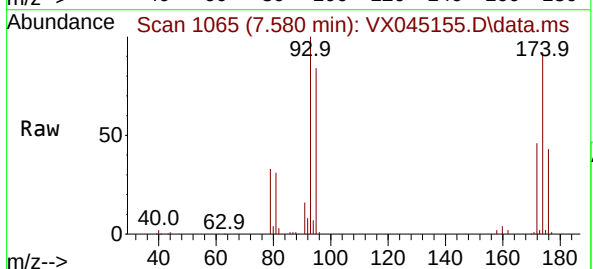
Tgt Ion: 93 Resp: 47874

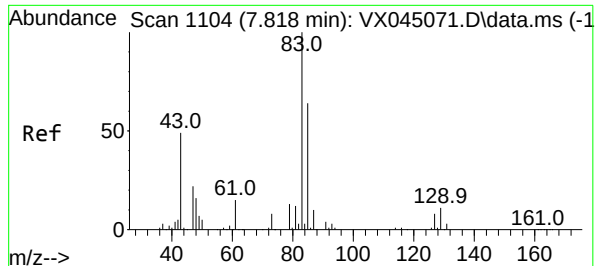
Ion Ratio Lower Upper

93 100

95 82.5 65.8 98.8

174 90.1 72.2 108.2





#47

Bromodichloromethane

Concen: 50.685 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

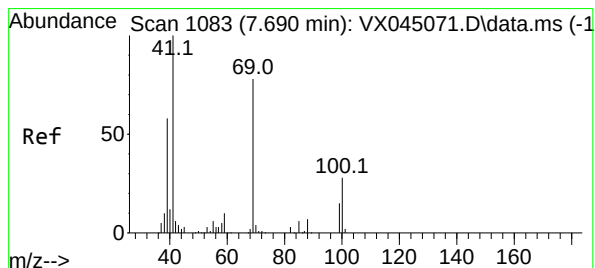
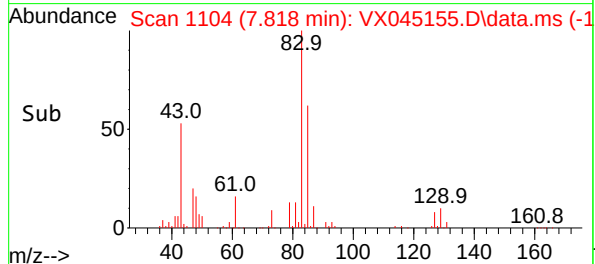
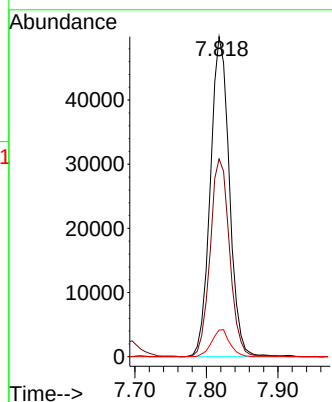
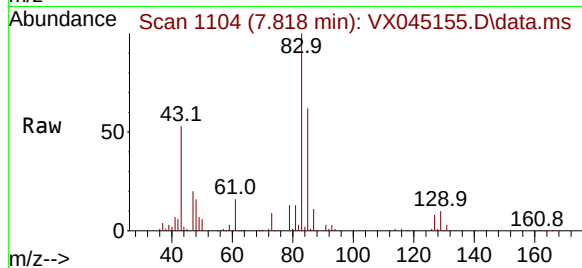
Tgt Ion:	83	Resp:	9199
Ion	Ratio	Lower	Upper
83	100		
85	61.8	51.1	76.7
127	8.3	6.4	9.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#48

Methyl methacrylate

Concen: 51.991 ug/l

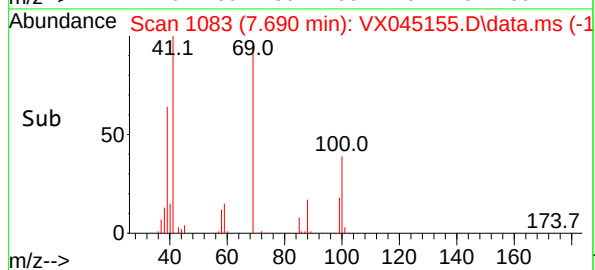
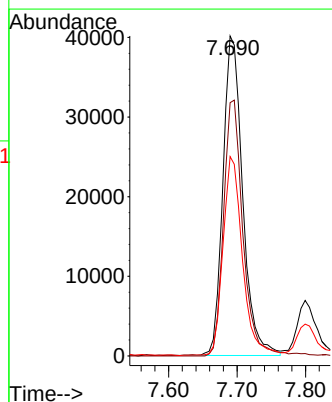
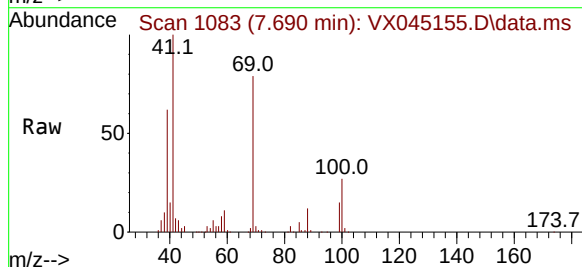
RT: 7.690 min Scan# 1083

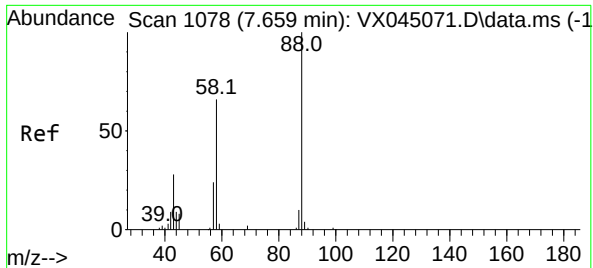
Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Tgt Ion:	41	Resp:	80137
Ion	Ratio	Lower	Upper
41	100		
69	78.3	63.0	94.6
39	61.0	47.5	71.3





#49

1,4-Dioxane

Concen: 1004.564 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. 0.006 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 88 Resp: 32662

Ion Ratio Lower Upper

88 100

43 35.7 28.7 43.1

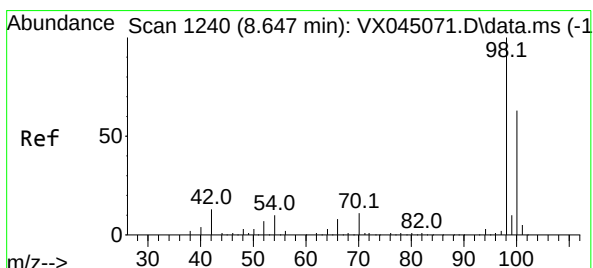
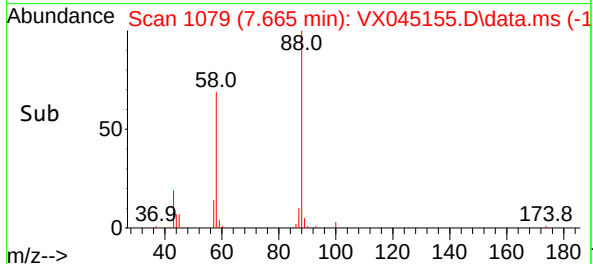
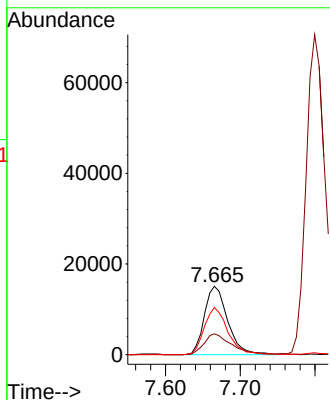
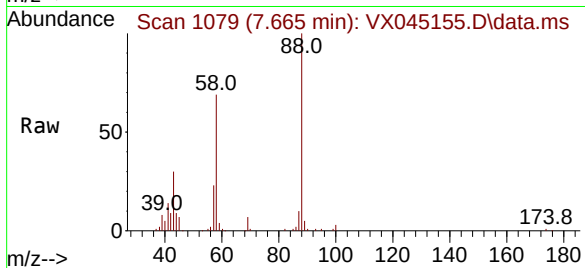
58 70.0 55.8 83.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#50

Toluene-d8

Concen: 51.298 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX045155.D

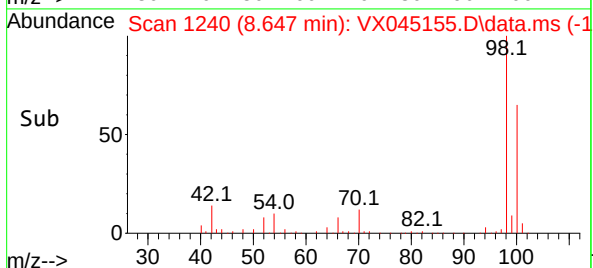
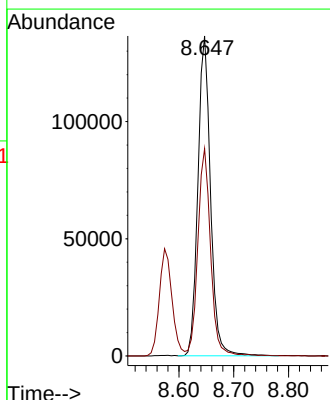
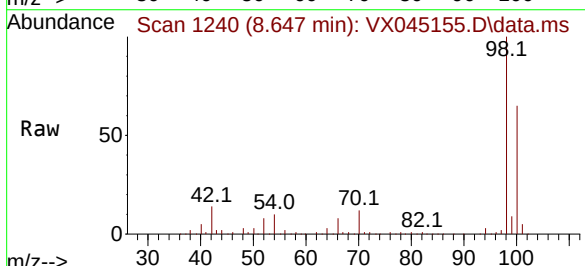
Acq: 06 Mar 2025 09:56

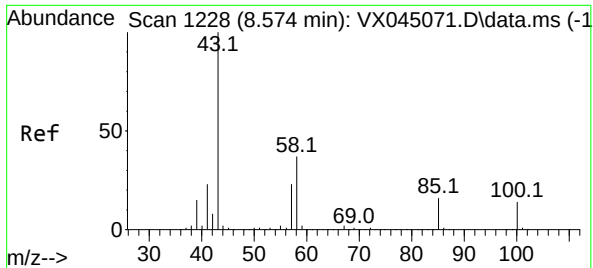
Tgt Ion: 98 Resp: 218659

Ion Ratio Lower Upper

98 100

100 65.6 52.0 78.0





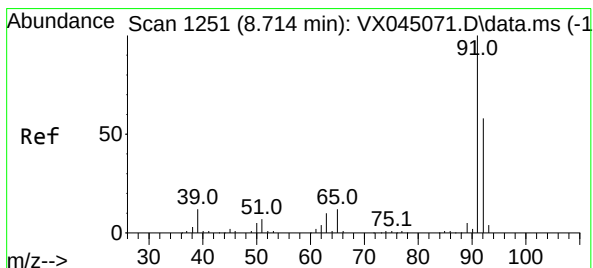
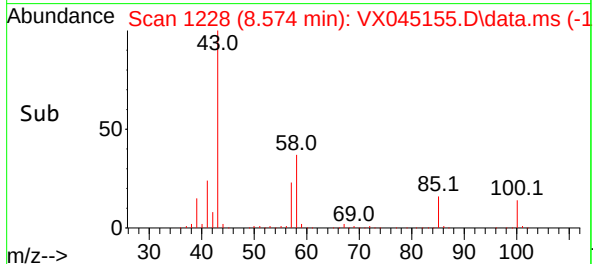
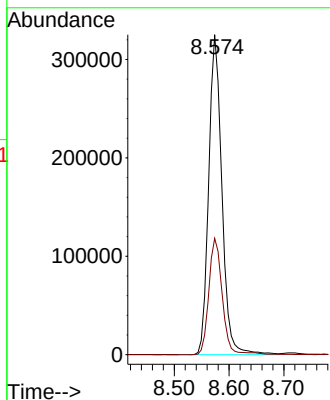
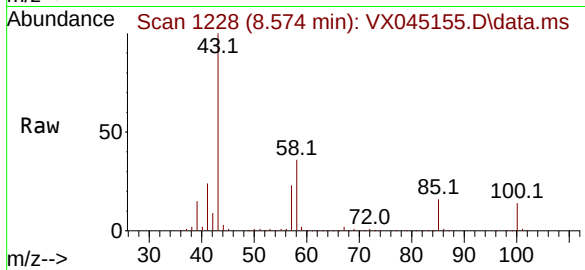
#51
4-Methyl-2-Pentanone
Concen: 262.414 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 541338
Ion Ratio Lower Upper
43 100
58 37.2 29.2 43.8

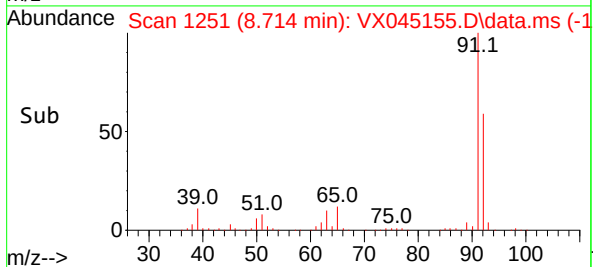
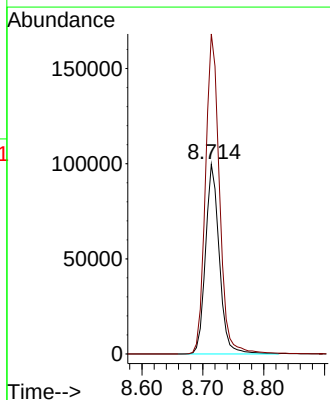
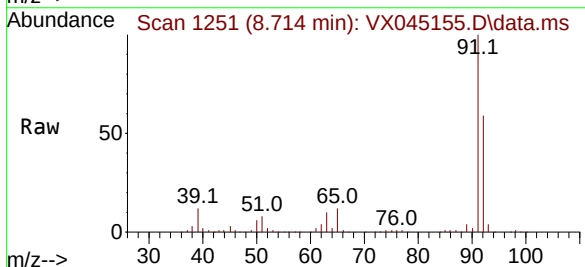
Manual Integrations
APPROVED

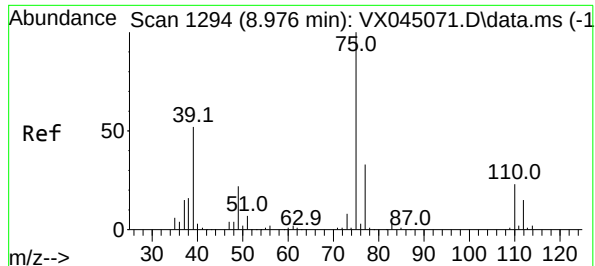
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#52
Toluene
Concen: 52.538 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

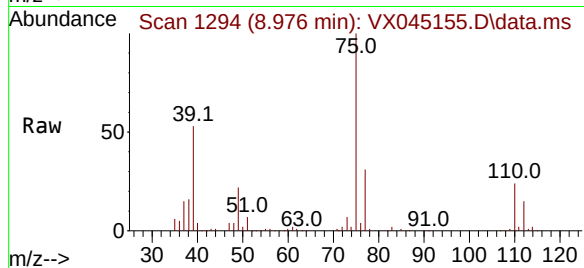
Tgt Ion: 92 Resp: 156953
Ion Ratio Lower Upper
92 100
91 172.1 138.9 208.3





#53
t-1,3-Dichloropropene
Concen: 54.074 ug/l
RT: 8.976 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

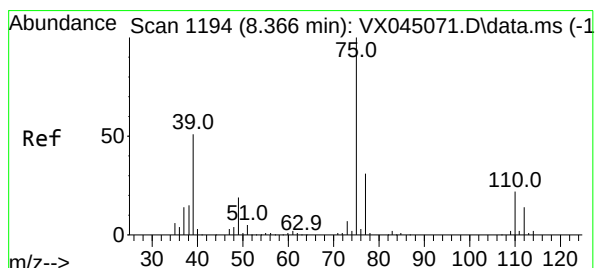
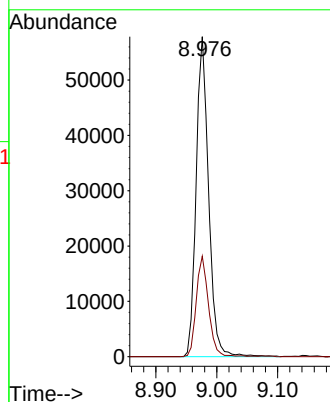
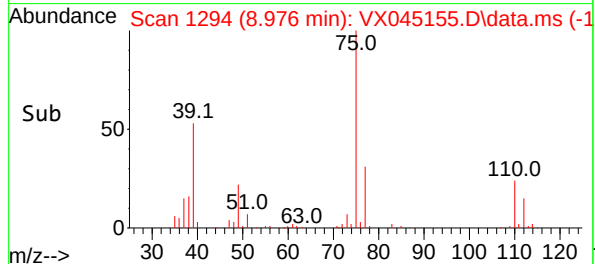
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 75 Resp: 8204
Ion Ratio Lower Upper
75 100
77 31.4 26.5 39.7

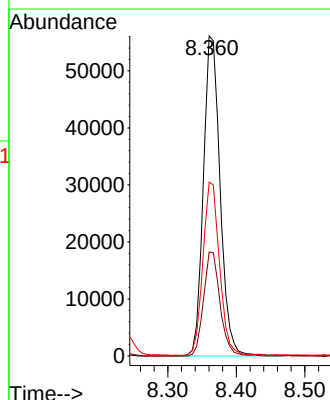
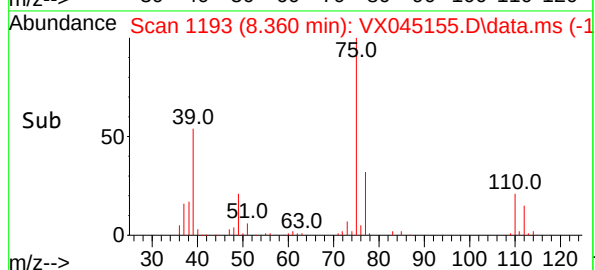
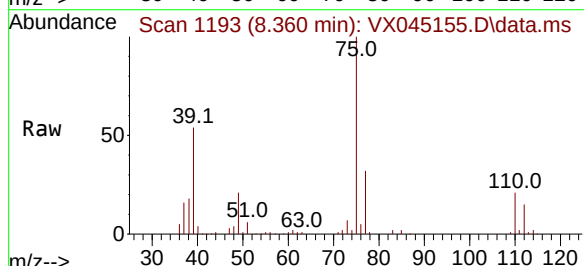
Manual Integrations
APPROVED

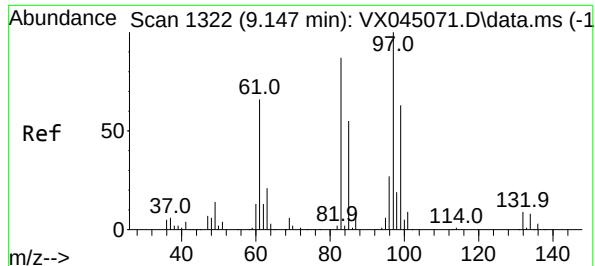
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#54
cis-1,3-Dichloropropene
Concen: 54.055 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 75 Resp: 95642
Ion Ratio Lower Upper
75 100
77 32.4 24.7 37.1
39 54.2 40.7 61.1





#55

1,1,2-Trichloroethane

Concen: 50.685 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 97 Resp: 6233

Ion Ratio Lower Upper

97 100

83 87.3 69.4 104.2

85 55.5 44.1 66.1

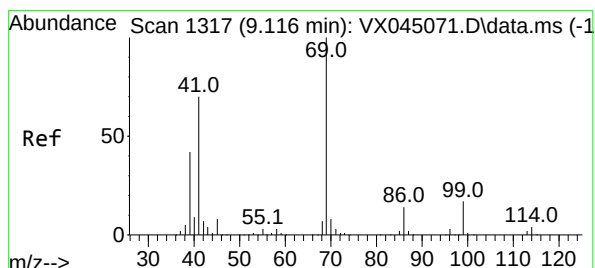
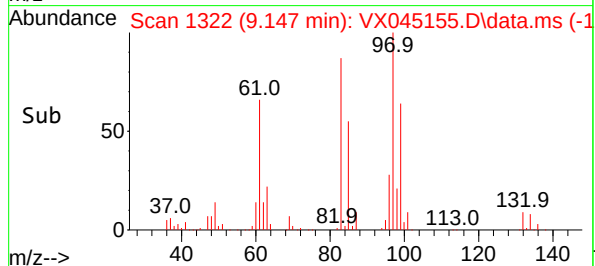
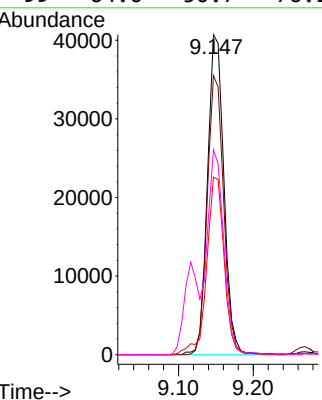
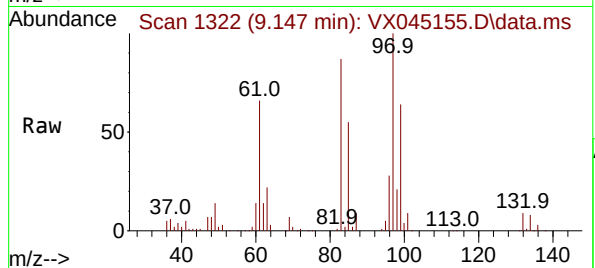
99 64.0 50.7 76.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#56

Ethyl methacrylate

Concen: 52.367 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

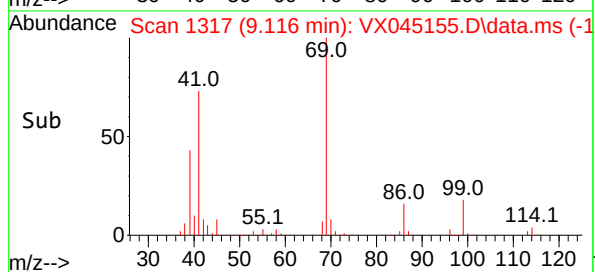
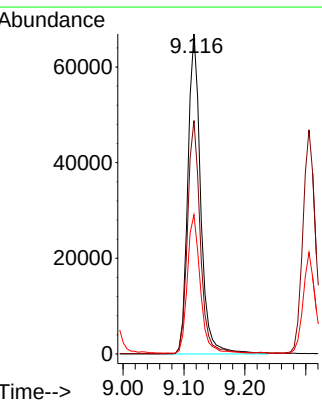
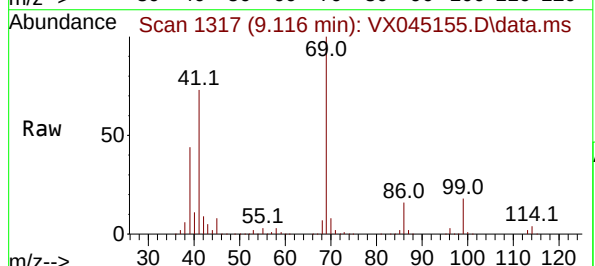
Tgt Ion: 69 Resp: 97896

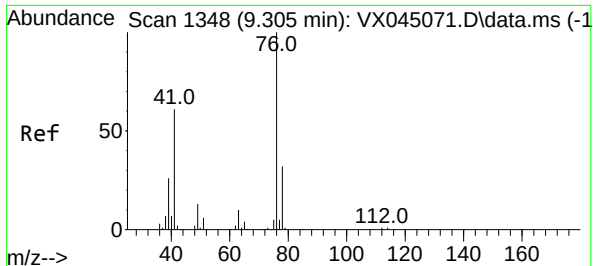
Ion Ratio Lower Upper

69 100

41 72.4 57.0 85.4

39 43.4 34.2 51.4





#57

1,3-Dichloropropane

Concen: 50.592 ug/l

RT: 9.305 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 10767

Ion Ratio Lower Upper

76 100

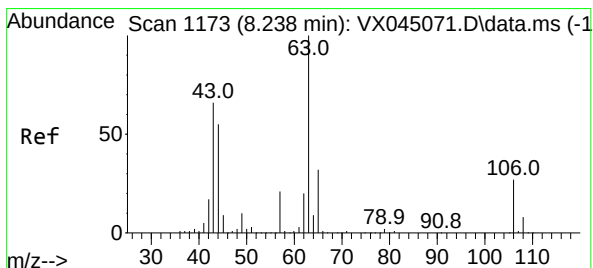
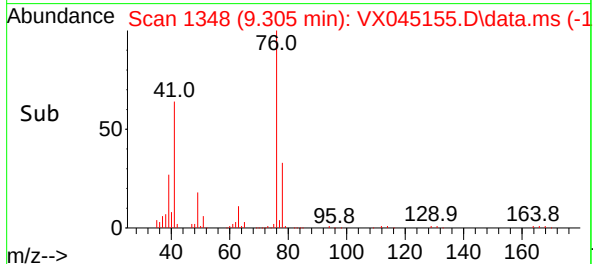
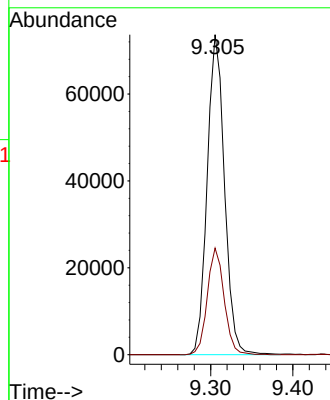
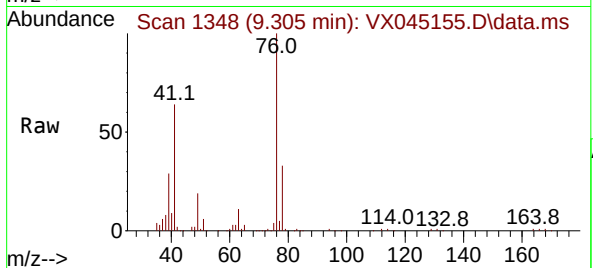
78 32.4 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#58

2-Chloroethyl Vinyl ether

Concen: 274.113 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX045155.D

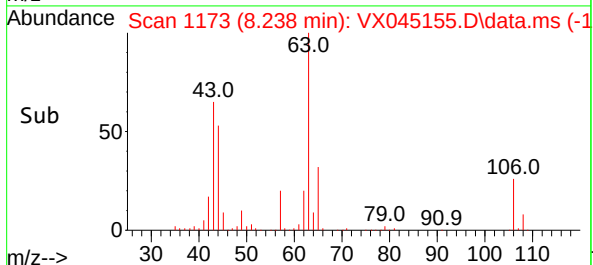
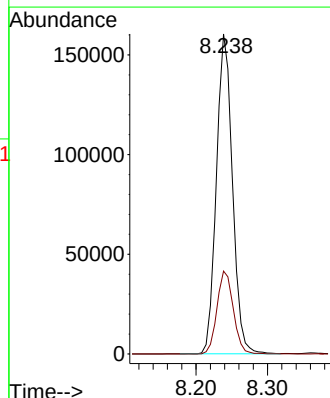
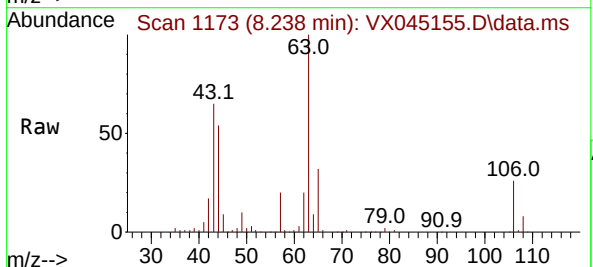
Acq: 06 Mar 2025 09:56

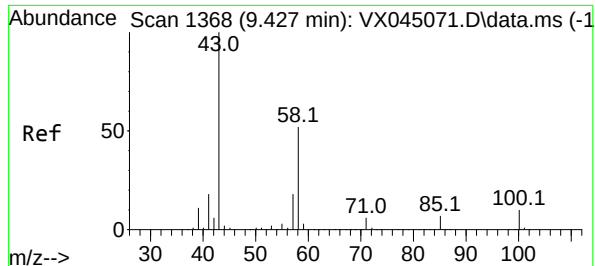
Tgt Ion: 63 Resp: 249971

Ion Ratio Lower Upper

63 100

106 26.4 21.5 32.3





#59

2-Hexanone

Concen: 264.998 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.006 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 396084

Ion Ratio Lower Upper

43 100

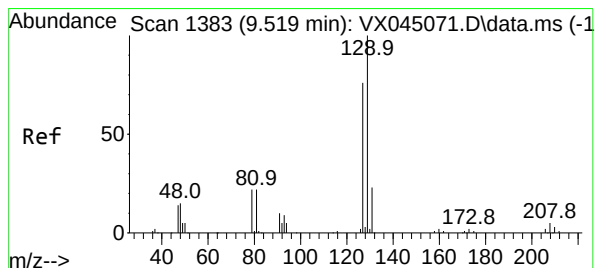
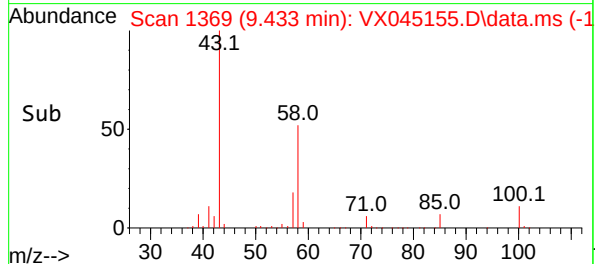
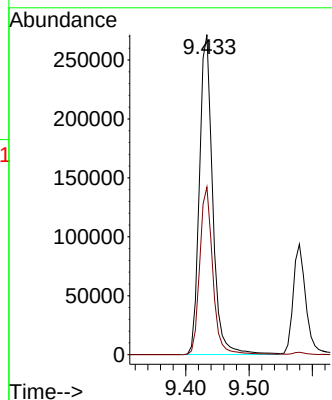
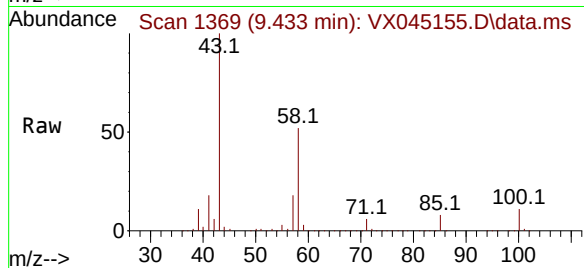
58 51.8 25.9 77.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#60

Dibromochloromethane

Concen: 51.634 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX045155.D

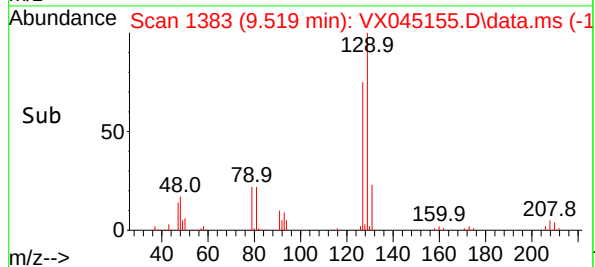
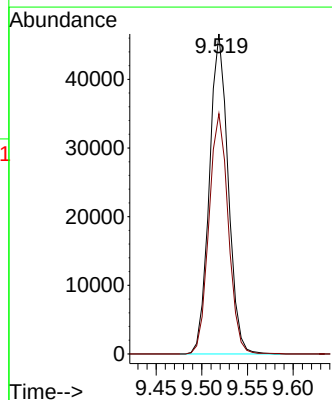
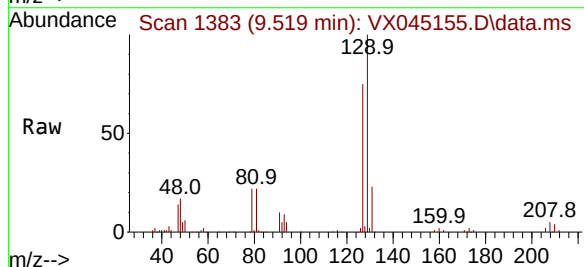
Acq: 06 Mar 2025 09:56

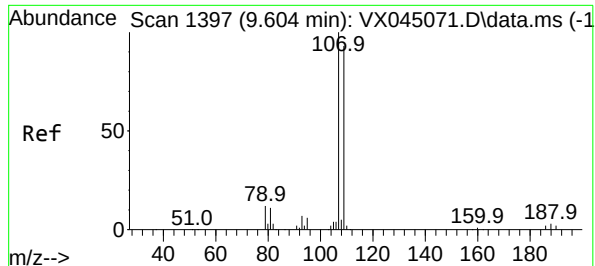
Tgt Ion:129 Resp: 66396

Ion Ratio Lower Upper

129 100

127 77.1 38.5 115.5





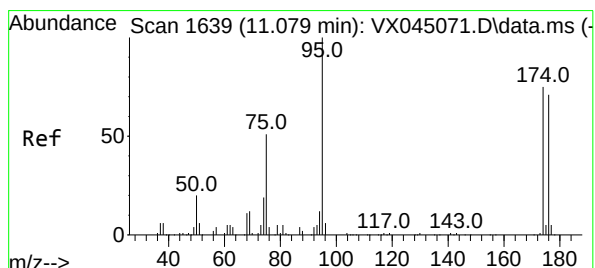
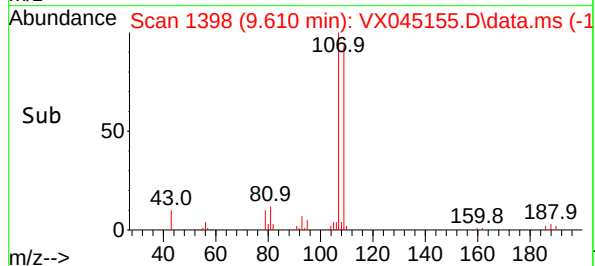
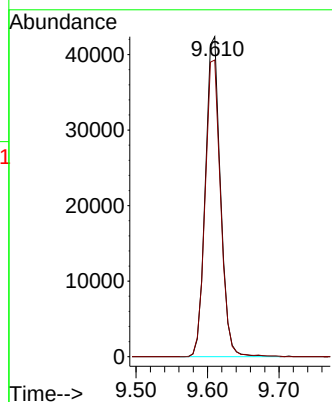
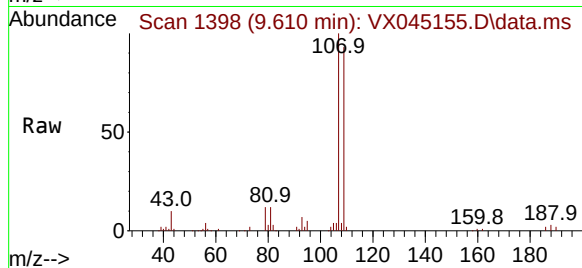
#61
1,2-Dibromoethane
Concen: 50.561 ug/l
RT: 9.610 min Scan# 1397
Delta R.T. 0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 62070
Ion Ratio Lower Upper
107 100
109 95.4 76.1 114.1

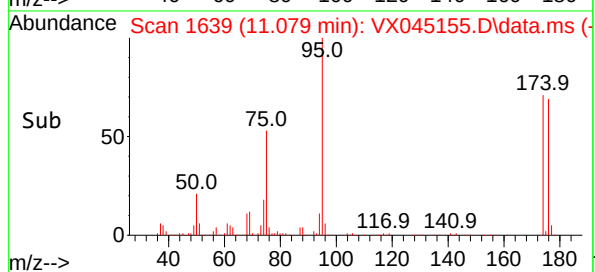
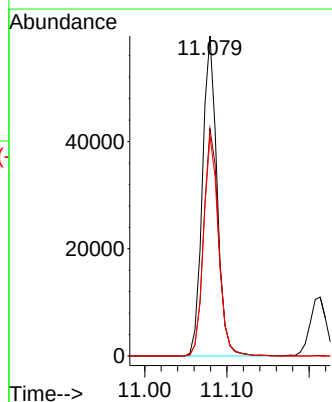
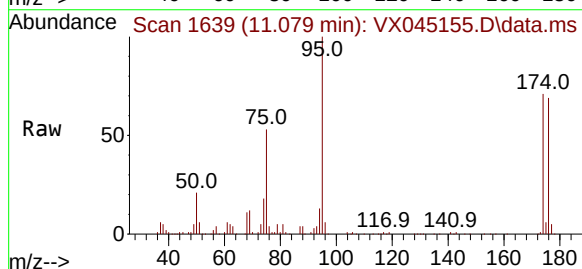
Manual Integrations
APPROVED

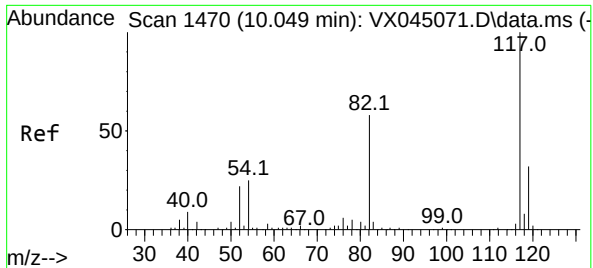
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#62
4-Bromofluorobenzene
Concen: 52.170 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

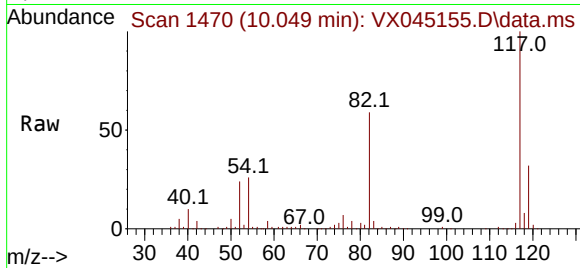
Tgt Ion: 95 Resp: 73689
Ion Ratio Lower Upper
95 100
174 72.7 0.0 148.2
176 70.0 0.0 141.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

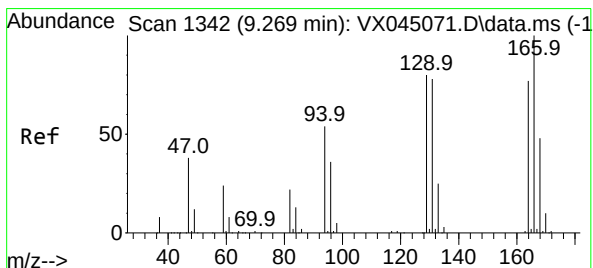
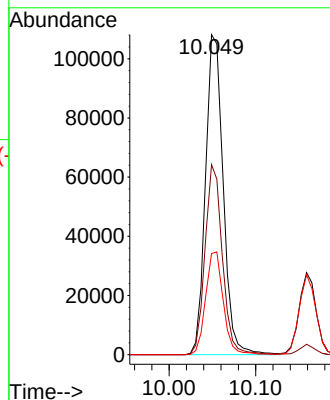
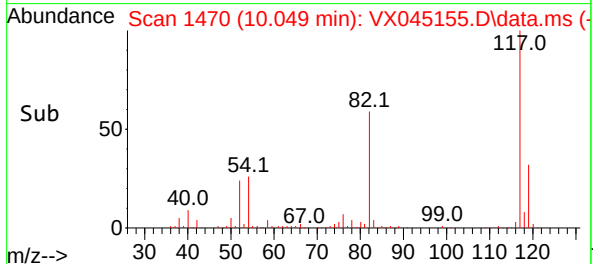
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:117 Resp: 153740
Ion Ratio Lower Upper
117 100
82 59.4 46.3 69.5
119 31.6 25.7 38.5

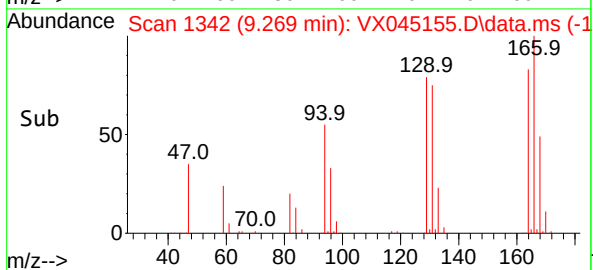
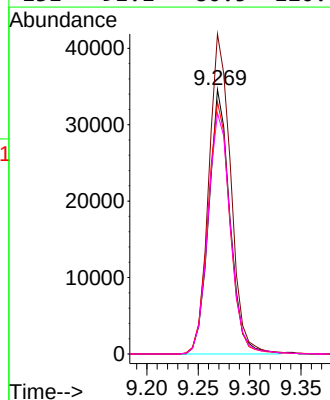
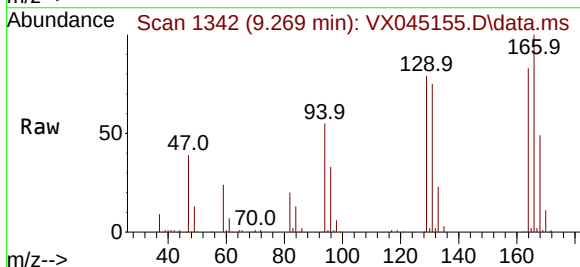
Manual Integrations
APPROVED

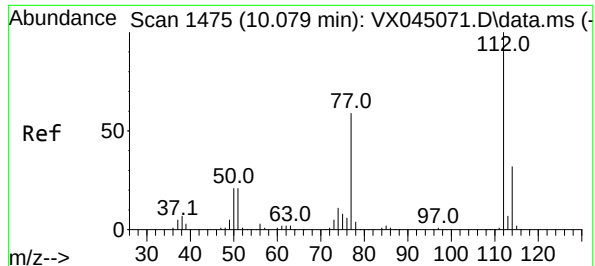
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#64
Tetrachloroethene
Concen: 50.303 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

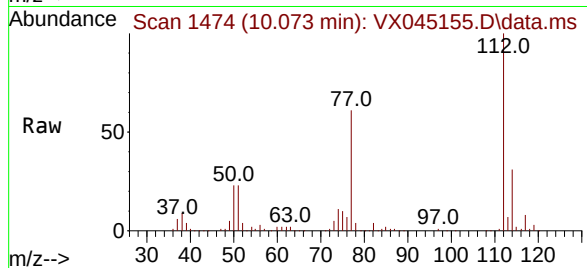
Tgt Ion:164 Resp: 49532
Ion Ratio Lower Upper
164 100
166 121.0 103.6 155.4
129 95.3 82.7 124.1
131 91.1 80.5 120.7





#65
Chlorobenzene
Concen: 50.951 ug/l
RT: 10.073 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

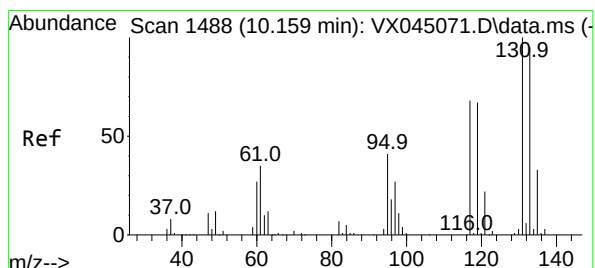
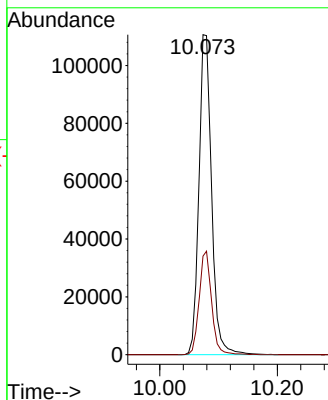
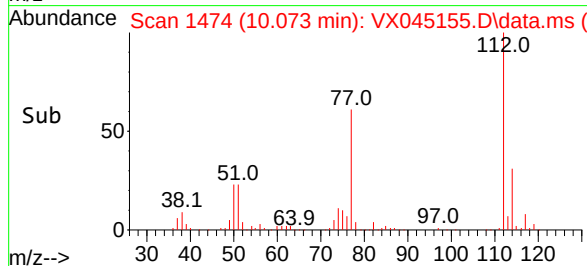
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



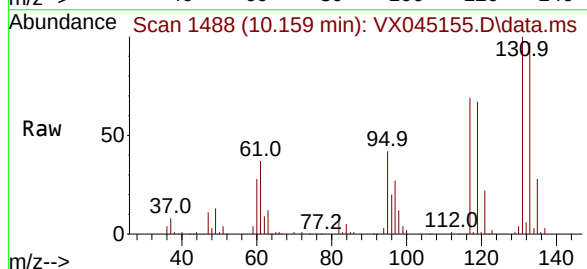
Tgt Ion:112 Resp: 165750
Ion Ratio Lower Upper
112 100
114 30.8 26.0 39.0

Manual Integrations
APPROVED

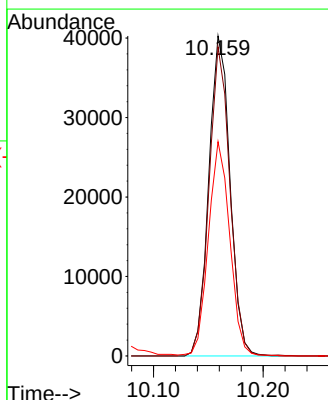
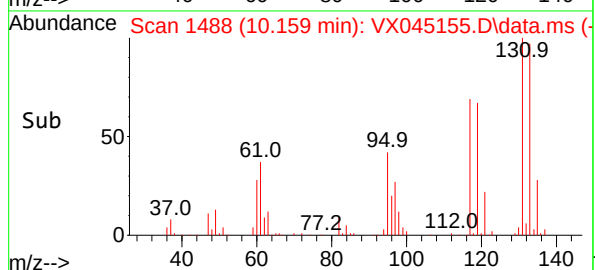
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

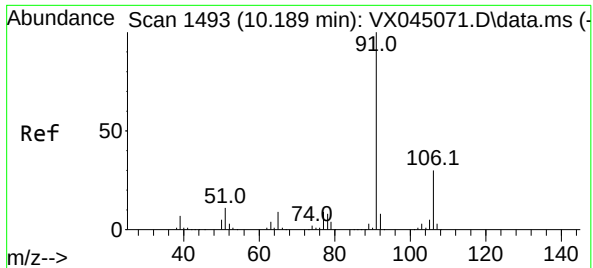


#66
1,1,1,2-Tetrachloroethane
Concen: 50.032 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56



Tgt Ion:131 Resp: 54204
Ion Ratio Lower Upper
131 100
133 95.4 48.6 145.9
119 67.4 33.9 101.7





#67

Ethyl Benzene

Concen: 52.376 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 29689

Ion Ratio Lower Upper

91 100

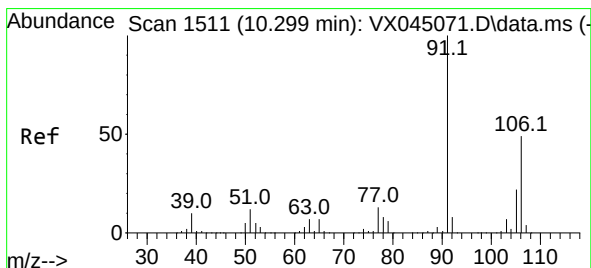
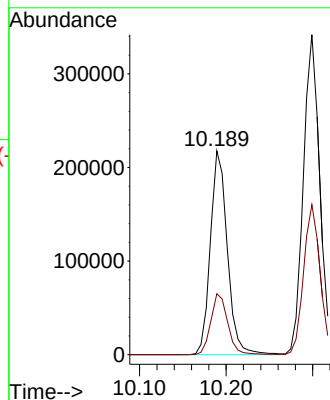
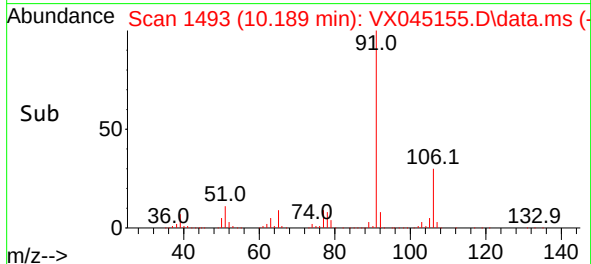
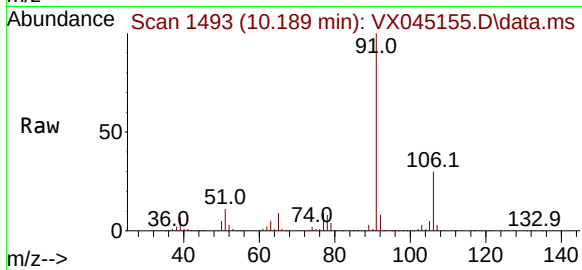
106 29.9 23.9 35.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#68

m/p-Xylenes

Concen: 104.329 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX045155.D

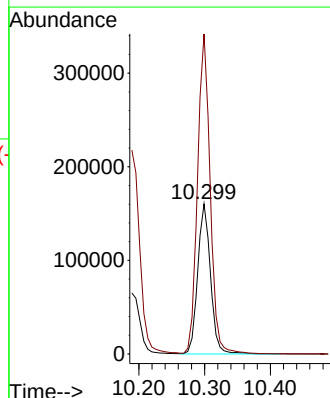
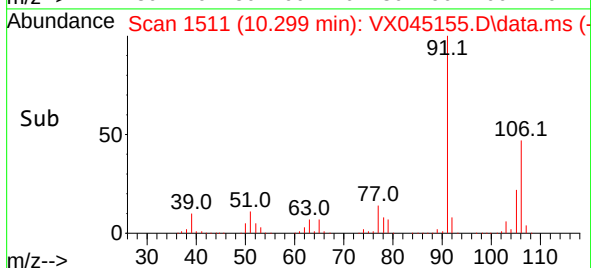
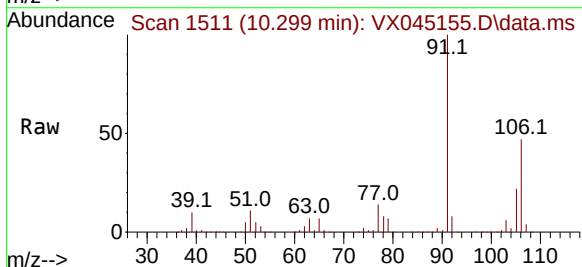
Acq: 06 Mar 2025 09:56

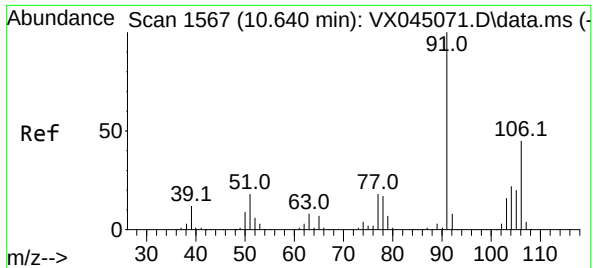
Tgt Ion:106 Resp: 216494

Ion Ratio Lower Upper

106 100

91 210.8 165.4 248.0





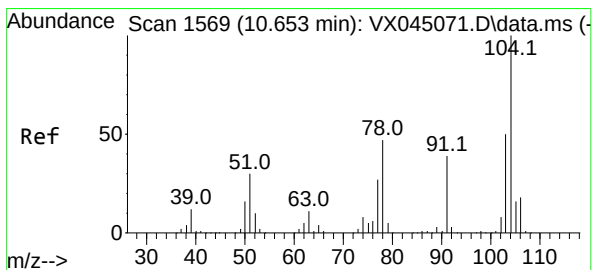
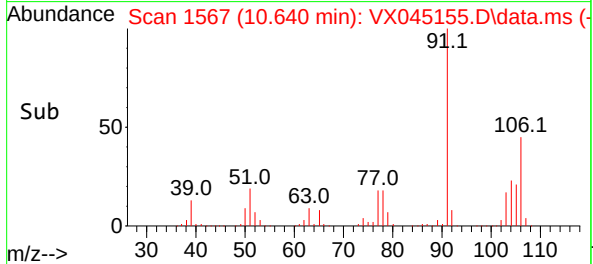
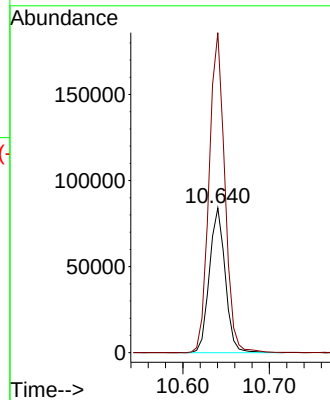
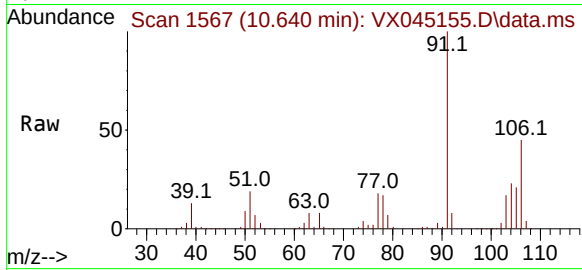
#69
o-Xylene
Concen: 51.019 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 106770
Ion Ratio Lower Upper
106 100
91 219.8 109.9 329.6

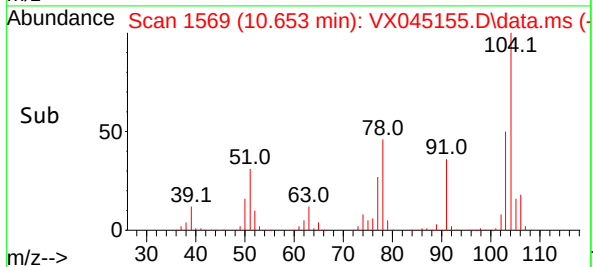
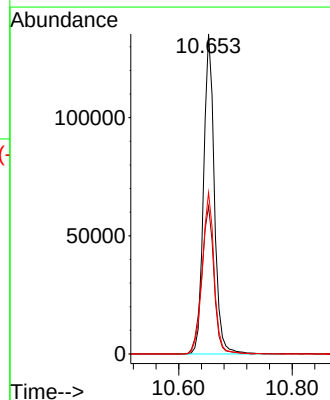
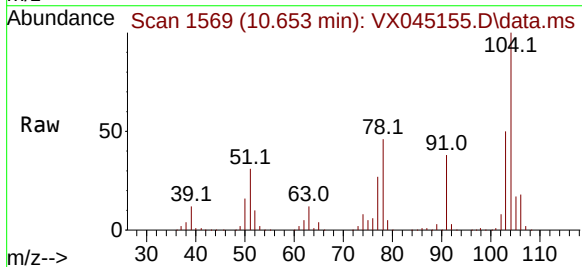
Manual Integrations
APPROVED

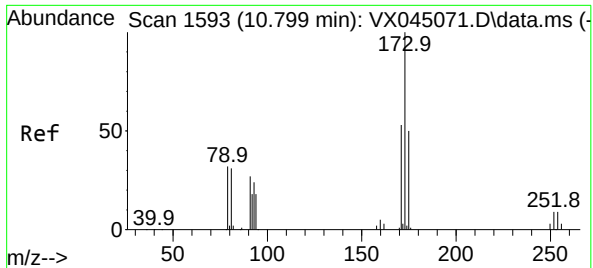
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#70
Styrene
Concen: 52.810 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

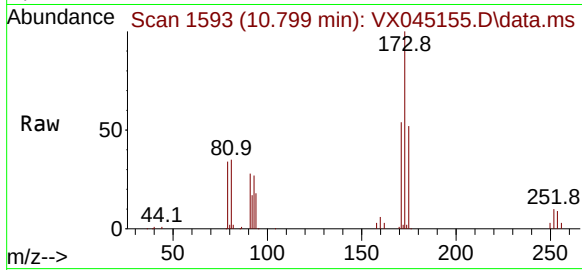
Tgt Ion:104 Resp: 178838
Ion Ratio Lower Upper
104 100
78 52.7 42.2 63.4
103 55.2 43.8 65.8





#71
Bromoform
Concen: 49.970 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

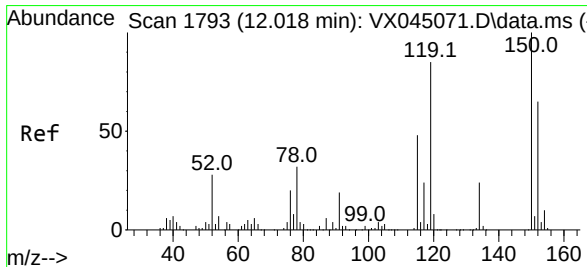
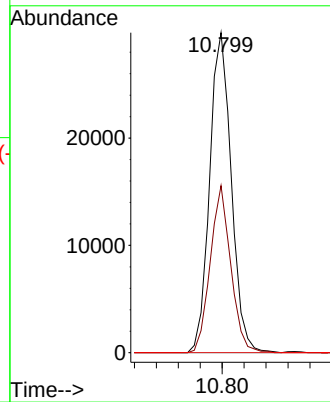
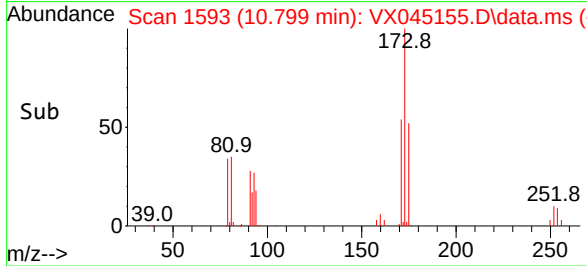
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:173 Resp: 40824
Ion Ratio Lower Upper
173 100
175 49.6 24.6 73.6
254 0.0 0.0 0.0

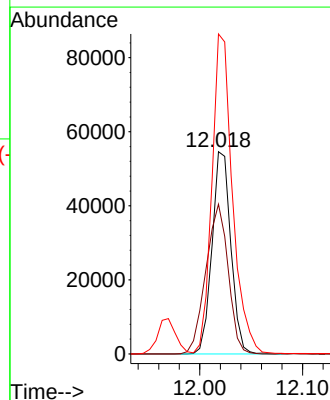
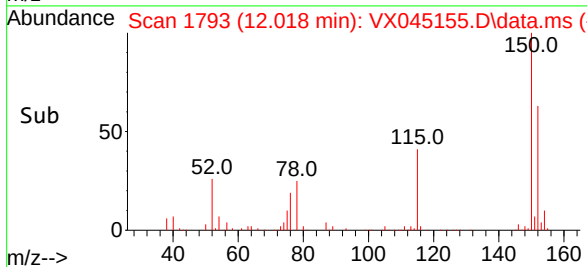
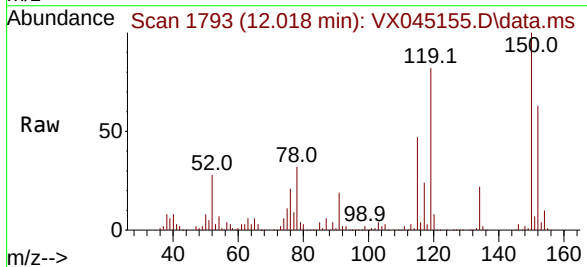
Manual Integrations
APPROVED

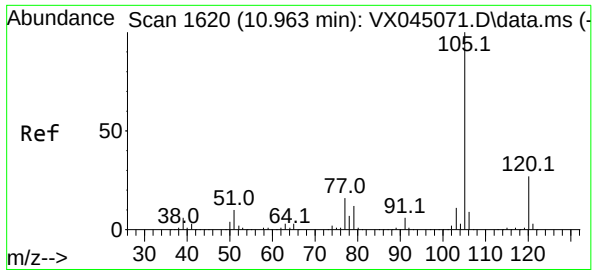
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

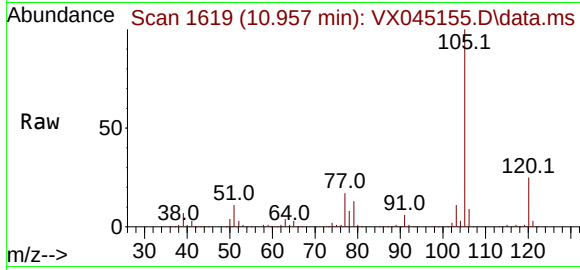
Tgt Ion:152 Resp: 69403
Ion Ratio Lower Upper
152 100
115 87.7 44.2 132.6
150 173.0 0.0 349.0





#73
Isopropylbenzene
Concen: 50.984 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

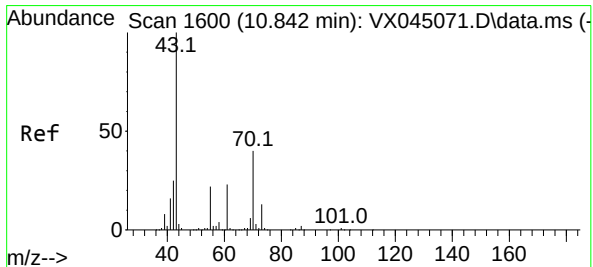
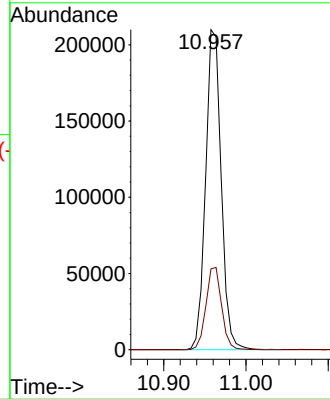
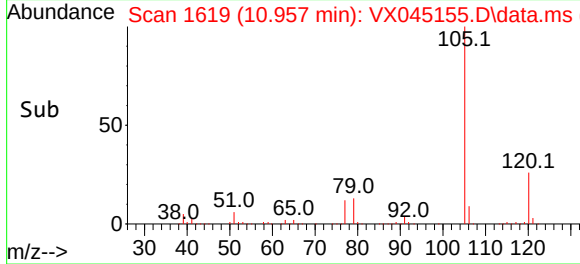
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:105 Resp: 276189
Ion Ratio Lower Upper
105 100
120 25.8 13.2 39.5

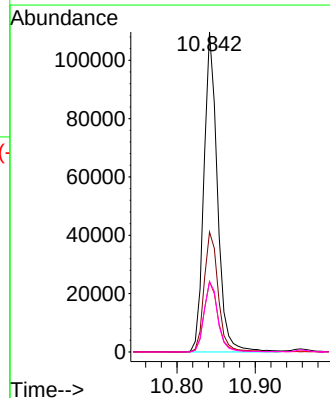
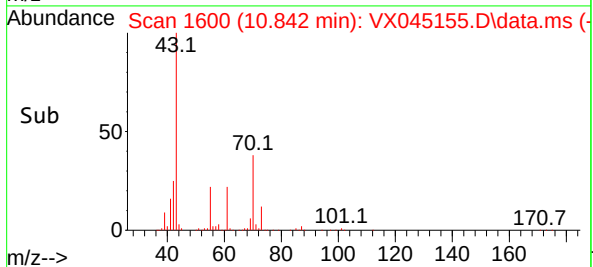
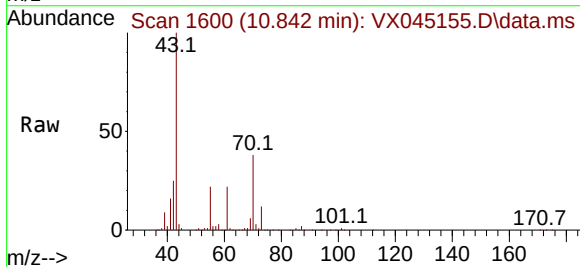
Manual Integrations
APPROVED

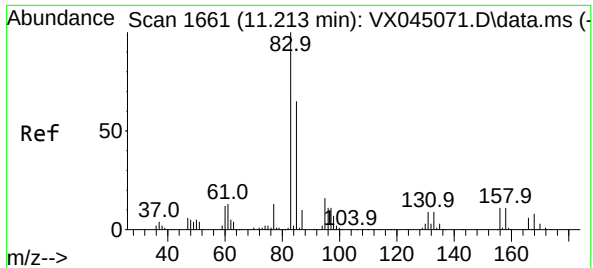
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#74
N-ethyl acetate
Concen: 51.811 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

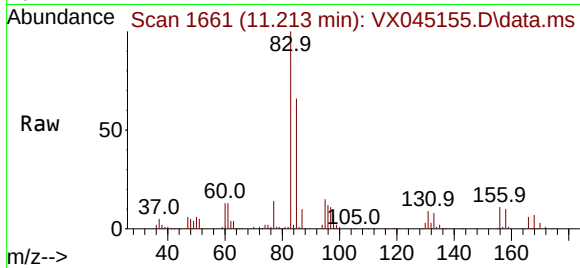
Tgt Ion: 43 Resp: 131698
Ion Ratio Lower Upper
43 100
70 39.0 31.8 47.6
55 22.9 18.3 27.5
61 22.5 18.3 27.5





#75
1,1,2,2-Tetrachloroethane
Concen: 49.376 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

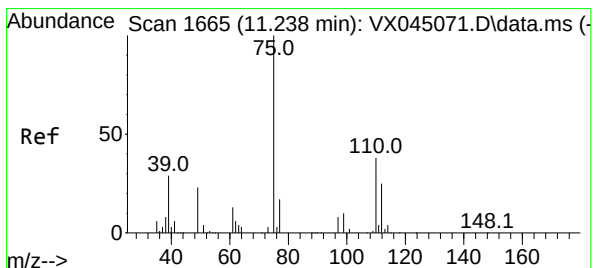
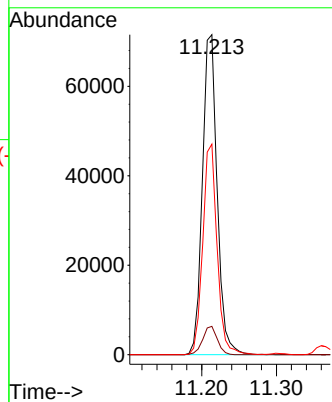
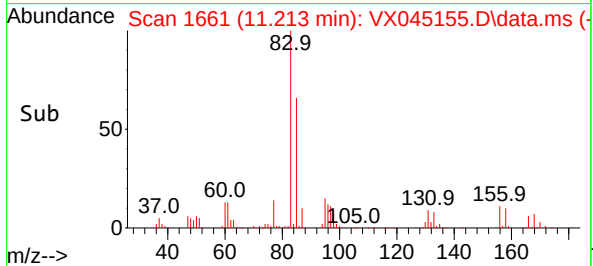
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 83 Resp: 98154
Ion Ratio Lower Upper
83 100
131 8.8 4.5 13.4
85 63.9 31.7 95.1

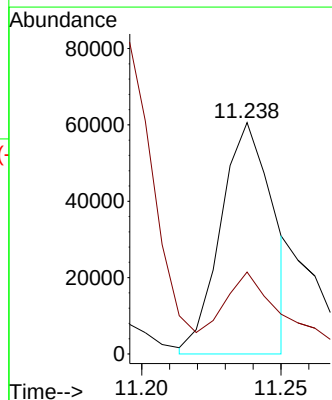
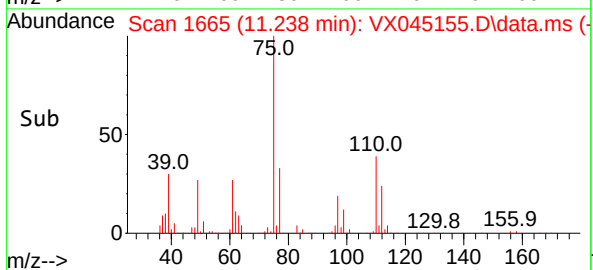
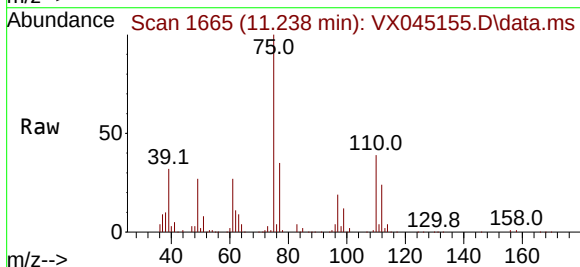
Manual Integrations
APPROVED

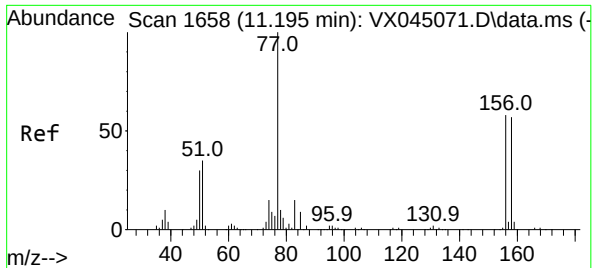
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#76
1,2,3-Trichloropropane
Concen: 49.083 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 75 Resp: 79287
Ion Ratio Lower Upper
75 100
77 42.3 20.7 62.1





#77

Bromobenzene

Concen: 50.213 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:156 Resp: 64179

Ion Ratio Lower Upper

156 100

77 169.2 85.8 257.4

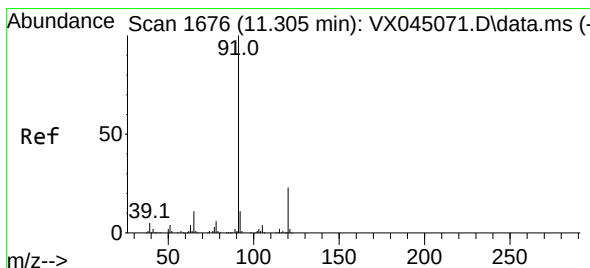
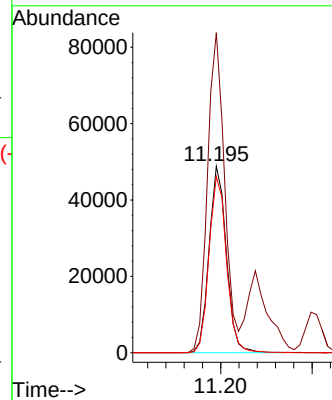
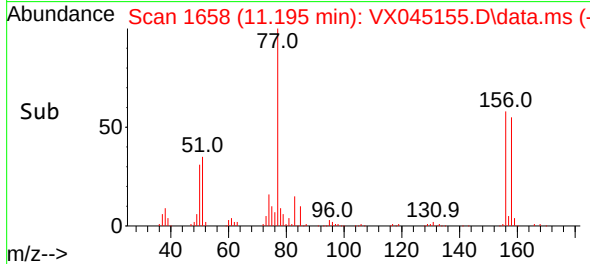
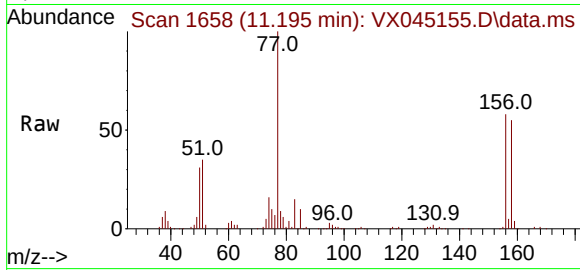
158 95.3 48.4 145.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#78

n-propylbenzene

Concen: 52.781 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. 0.000 min

Lab File: VX045155.D

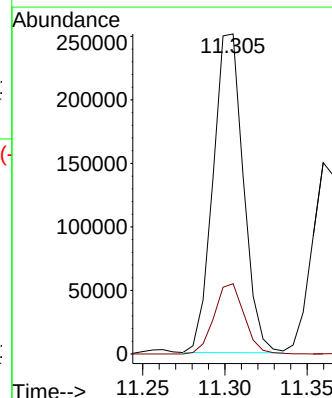
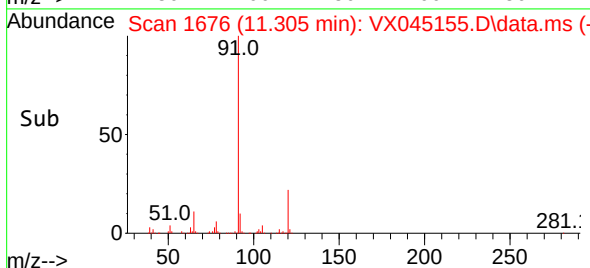
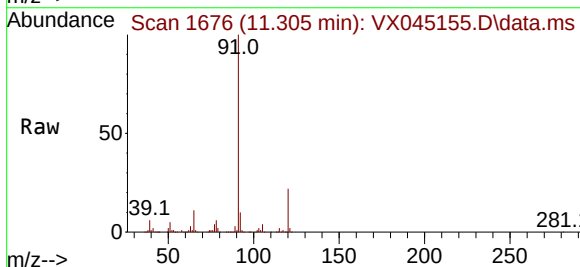
Acq: 06 Mar 2025 09:56

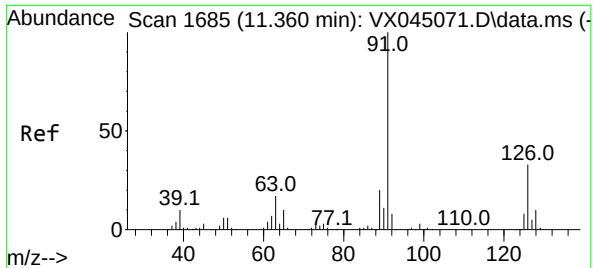
Tgt Ion: 91 Resp: 322984

Ion Ratio Lower Upper

91 100

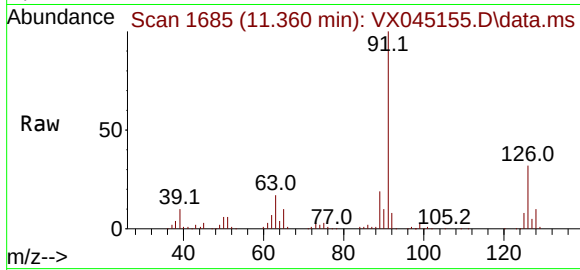
120 21.9 11.2 33.6





#79
2-Chlorotoluene
Concen: 49.740 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

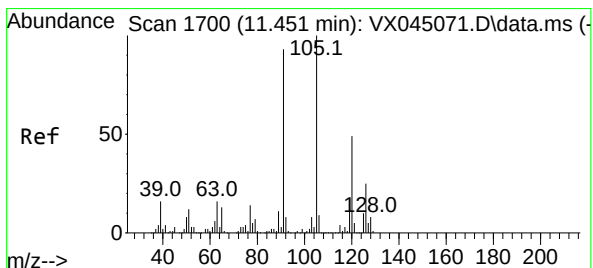
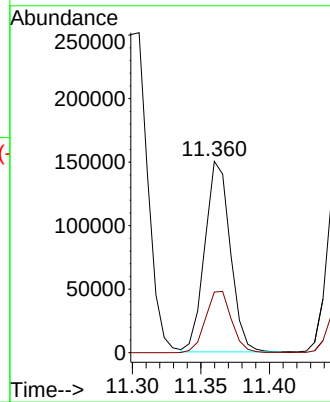
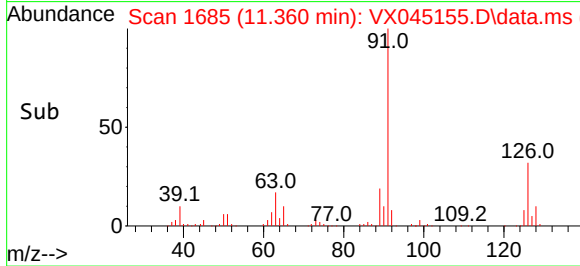
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 91 Resp: 193840
Ion Ratio Lower Upper
91 100
126 33.0 16.4 49.4

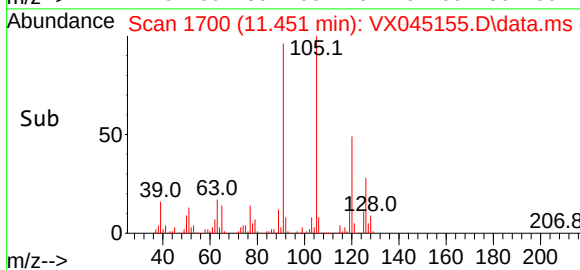
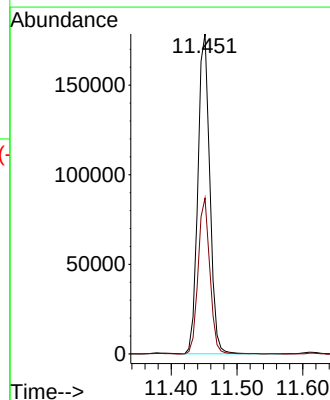
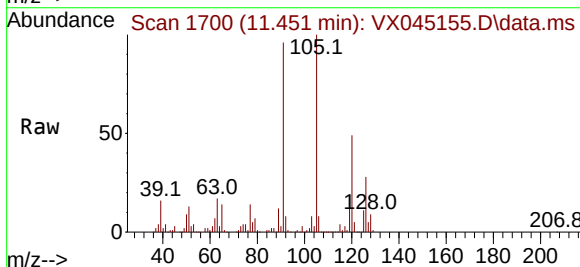
Manual Integrations
APPROVED

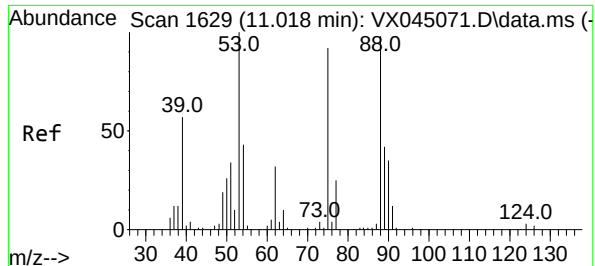
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#80
1,3,5-Trimethylbenzene
Concen: 51.365 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:105 Resp: 224986
Ion Ratio Lower Upper
105 100
120 47.9 24.1 72.2





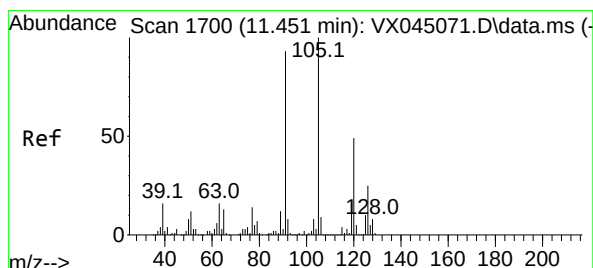
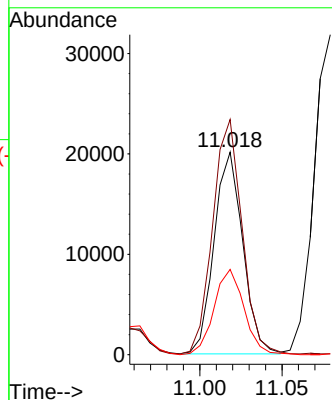
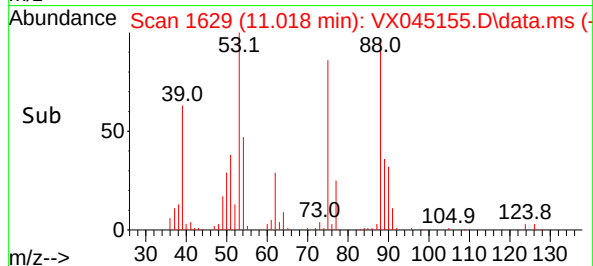
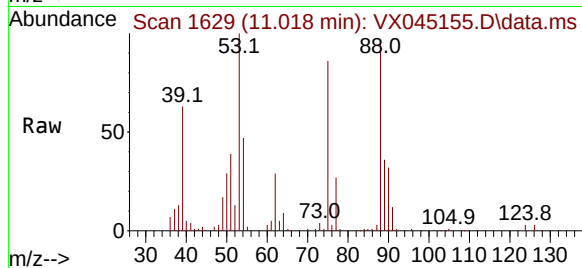
#81
trans-1,4-Dichloro-2-butene
Concen: 51.737 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 2442
Ion Ratio Lower Upper
75 100
53 118.4 88.5 132.7
89 44.2 36.2 54.4

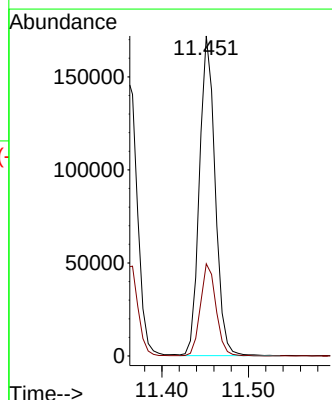
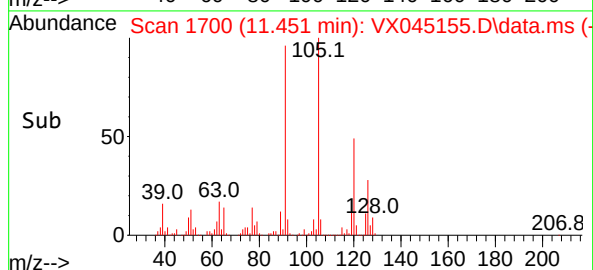
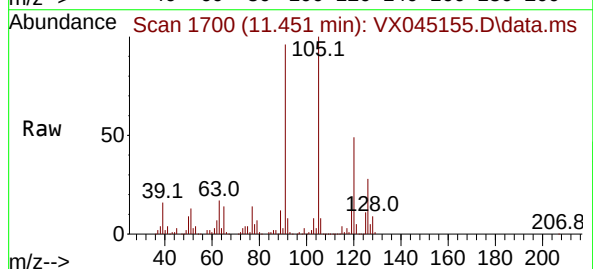
Manual Integrations
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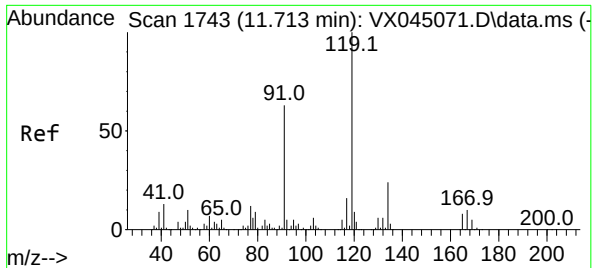
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#82
4-Chlorotoluene
Concen: 50.836 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

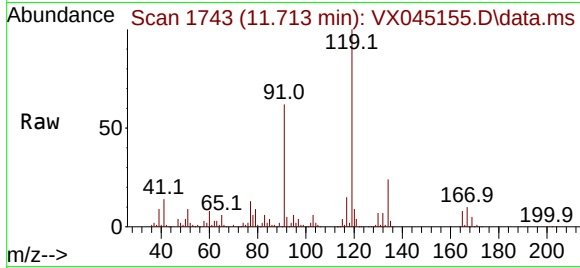
Tgt Ion: 91 Resp: 215920
Ion Ratio Lower Upper
91 100
126 28.8 14.1 42.4





#83
tert-Butylbenzene
Concen: 50.423 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

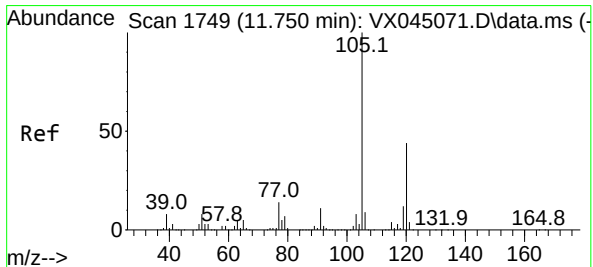
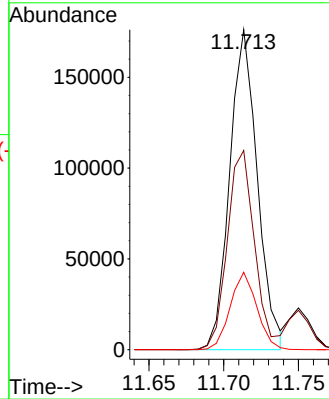
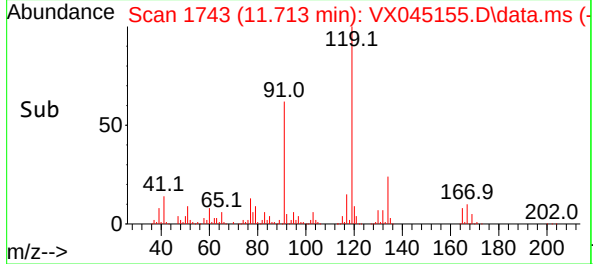
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:119 Resp: 226930
Ion Ratio Lower Upper
119 100
91 61.6 30.7 92.1
134 23.3 11.7 35.0

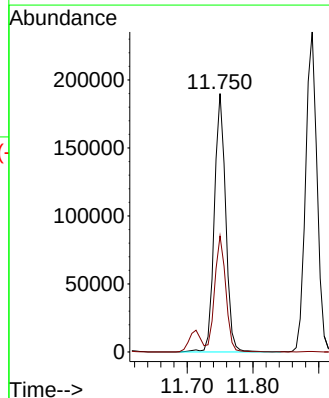
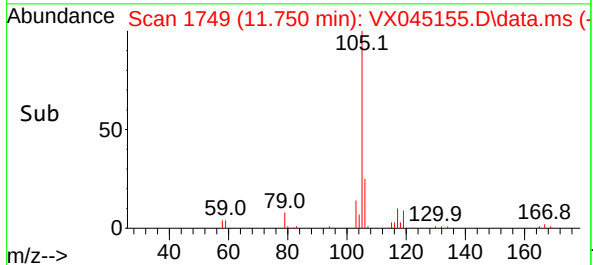
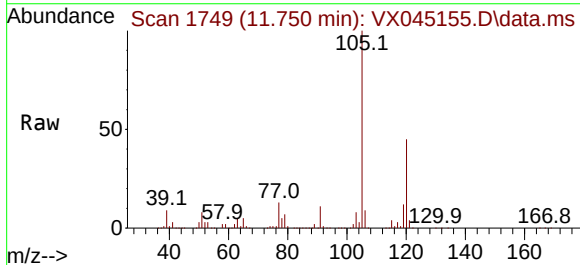
Manual Integrations
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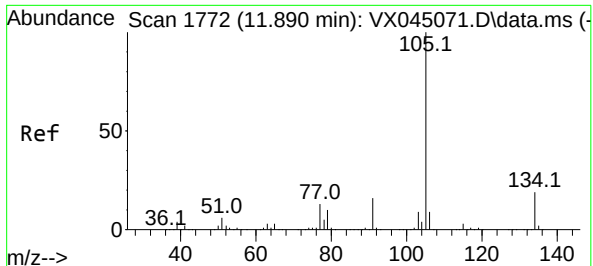
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#84
1,2,4-Trimethylbenzene
Concen: 51.566 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

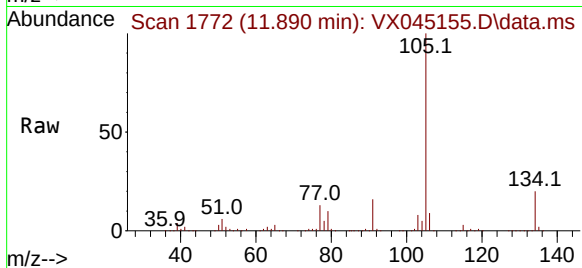
Tgt Ion:105 Resp: 227267
Ion Ratio Lower Upper
105 100
120 44.3 22.1 66.1





#85
 sec-Butylbenzene
 Concen: 52.696 ug/l
 RT: 11.890 min Scan# 1772
 Delta R.T. 0.000 min
 Lab File: VX045155.D
 Acq: 06 Mar 2025 09:56

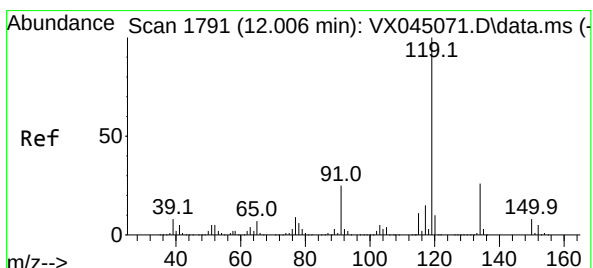
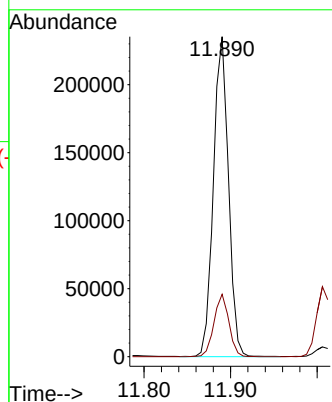
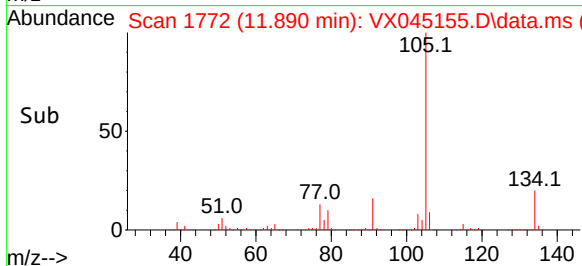
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050



Tgt Ion:105 Resp: 284085
 Ion Ratio Lower Upper
 105 100
 134 19.3 9.8 29.4

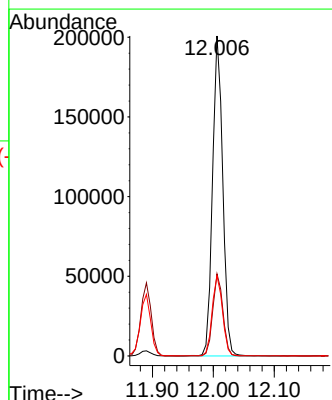
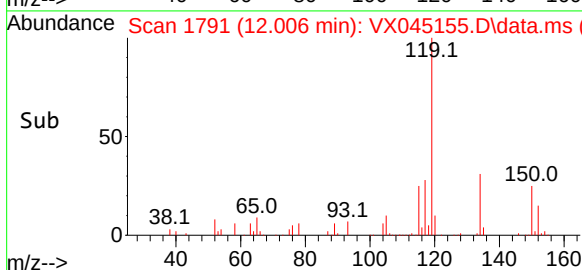
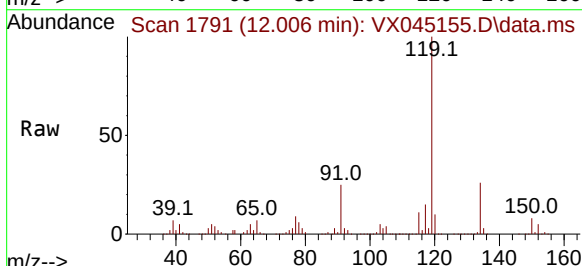
Manual Integrations
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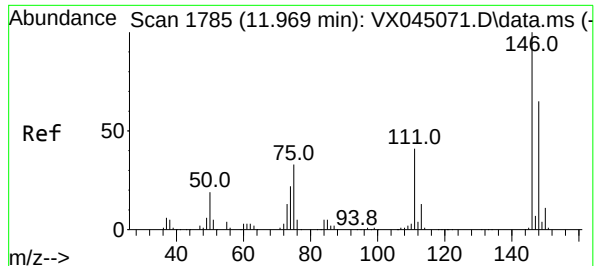
Reviewed By :John Carlone 03/10/2025
 Supervised By :Mahesh Dadoda 03/10/2025



#86
 p-Isopropyltoluene
 Concen: 53.707 ug/l
 RT: 12.006 min Scan# 1791
 Delta R.T. 0.000 min
 Lab File: VX045155.D
 Acq: 06 Mar 2025 09:56

Tgt Ion:119 Resp: 233986
 Ion Ratio Lower Upper
 119 100
 134 25.5 12.9 38.6
 91 25.3 12.7 38.0





#87

1,3-Dichlorobenzene

Concen: 49.852 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:146 Resp: 11366

Ion Ratio Lower Upper

146 100

111 43.1 21.1 63.4

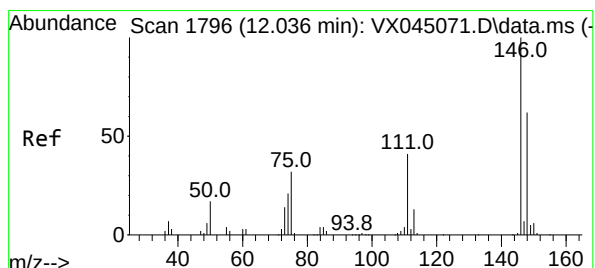
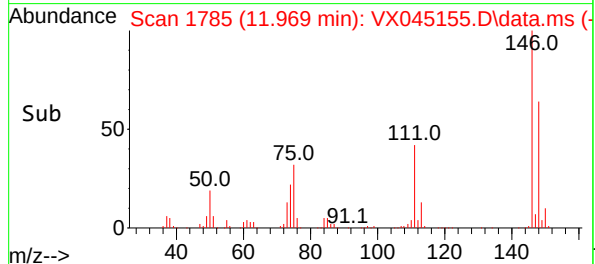
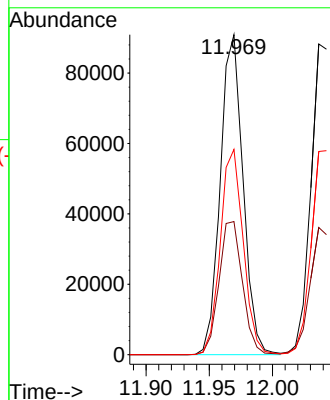
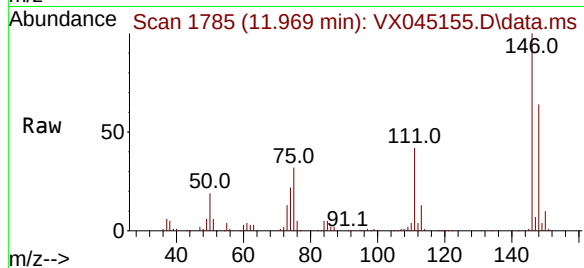
148 64.6 31.9 95.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#88

1,4-Dichlorobenzene

Concen: 49.469 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

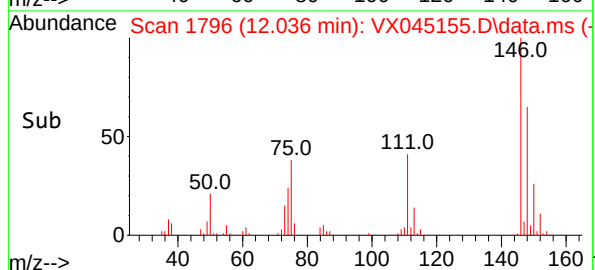
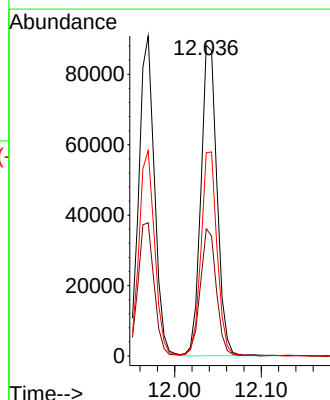
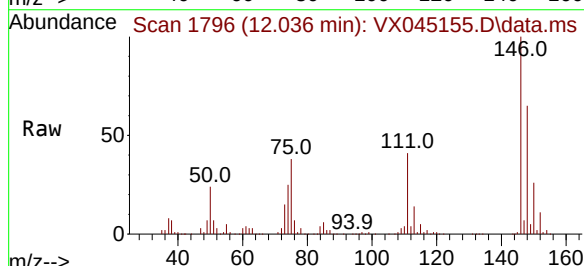
Tgt Ion:146 Resp: 114115

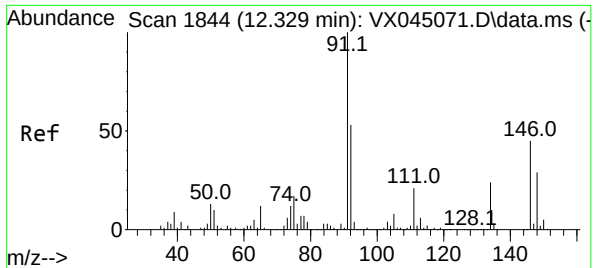
Ion Ratio Lower Upper

146 100

111 40.9 20.2 60.5

148 65.5 31.9 95.9





#89

n-Butylbenzene

Concen: 55.868 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 20963

Ion Ratio Lower Upper

91 100

92 52.6 26.7 80.0

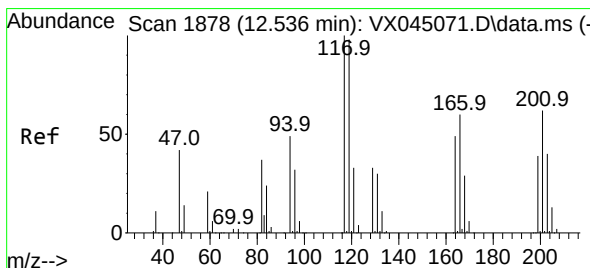
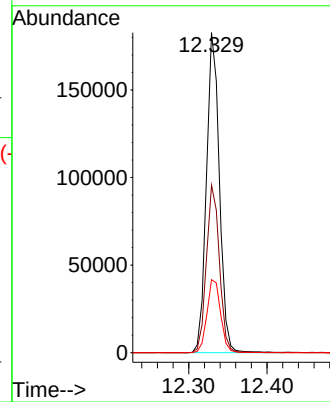
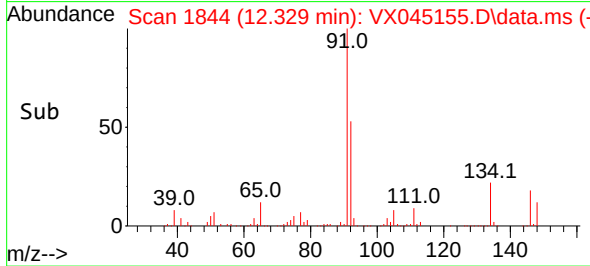
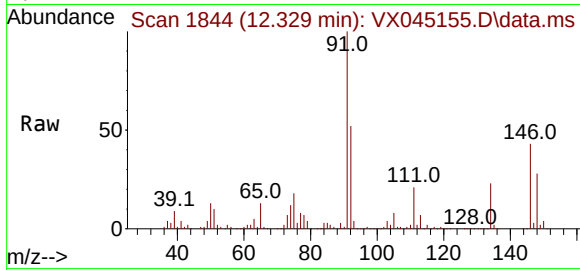
134 24.0 12.2 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#90

Hexachloroethane

Concen: 49.718 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX045155.D

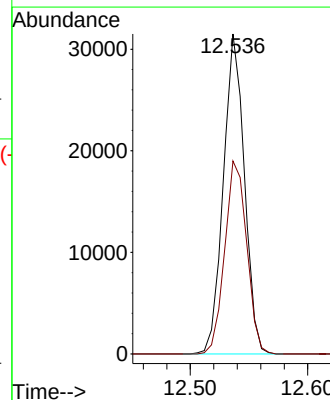
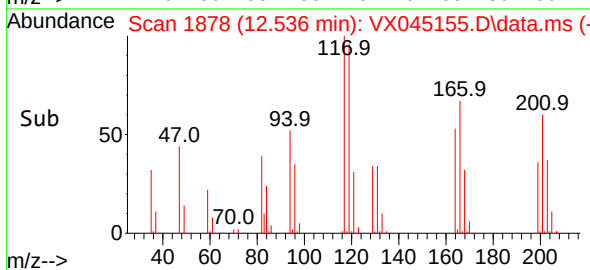
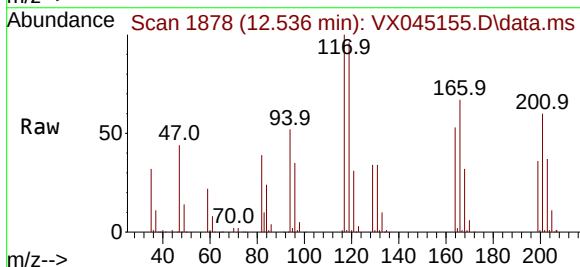
Acq: 06 Mar 2025 09:56

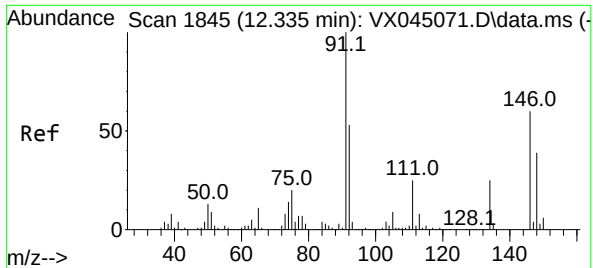
Tgt Ion:117 Resp: 39179

Ion Ratio Lower Upper

117 100

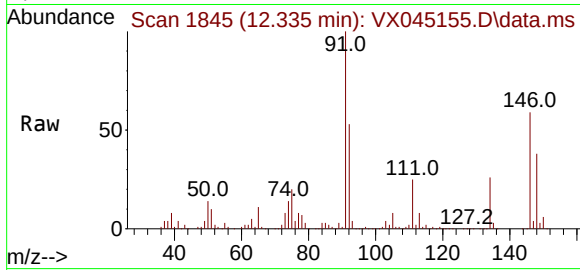
201 63.1 31.9 95.9





#91
1,2-Dichlorobenzene
Concen: 51.199 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

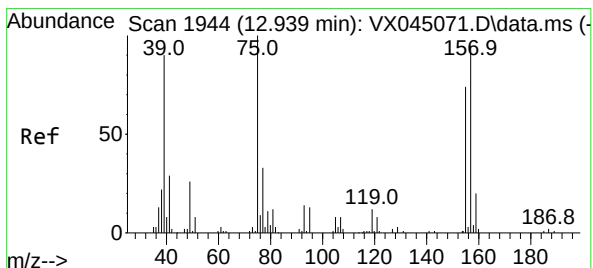
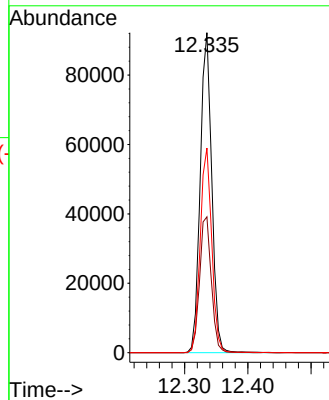
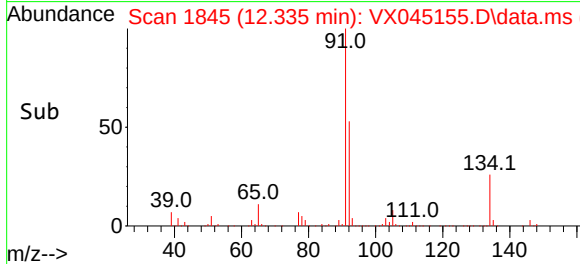
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:146 Resp: 11710
Ion Ratio Lower Upper
146 100
111 43.4 21.6 65.0
148 63.6 31.9 95.9

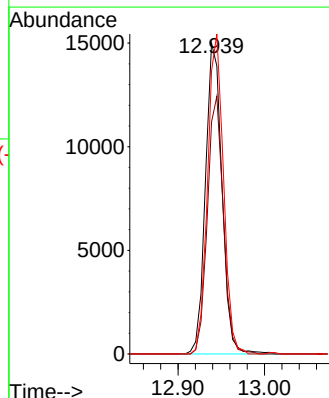
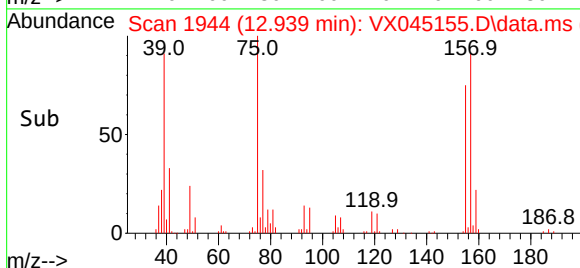
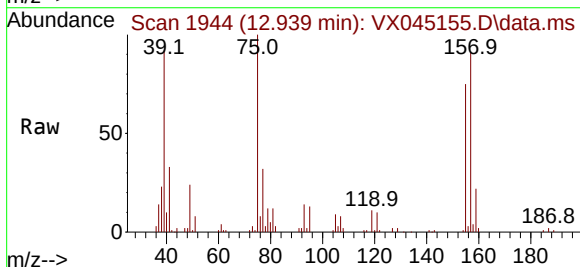
Manual Integrations
APPROVED

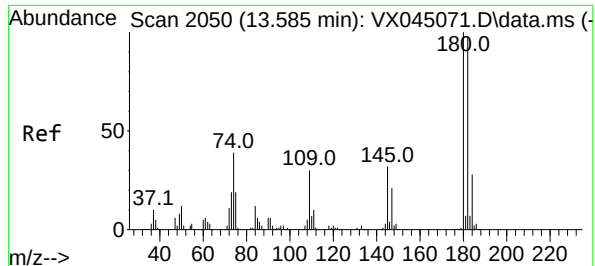
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 51.248 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 75 Resp: 19847
Ion Ratio Lower Upper
75 100
155 80.0 39.6 118.7
157 98.8 51.1 153.4





#93

1,2,4-Trichlorobenzene

Concen: 53.845 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:180 Resp: 7012

Ion Ratio Lower Upper

180 100

182 95.0 47.3 141.9

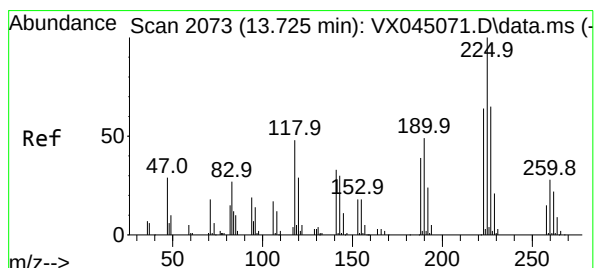
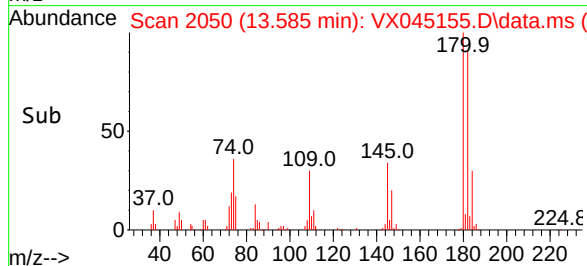
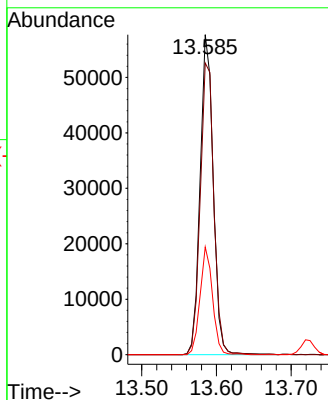
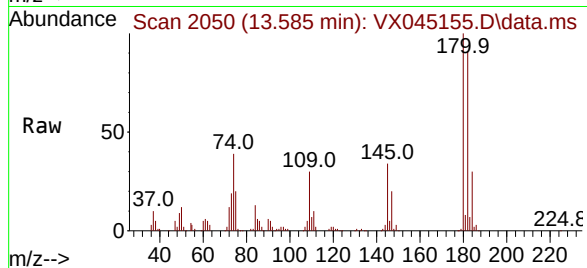
145 32.1 16.3 48.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#94

Hexachlorobutadiene

Concen: 52.418 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX045155.D

Acq: 06 Mar 2025 09:56

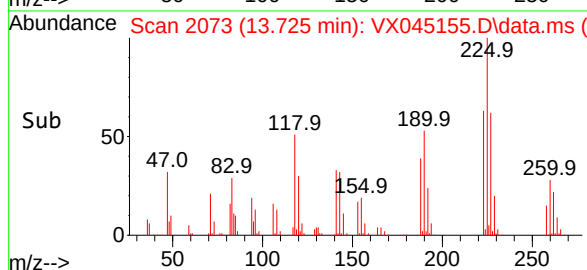
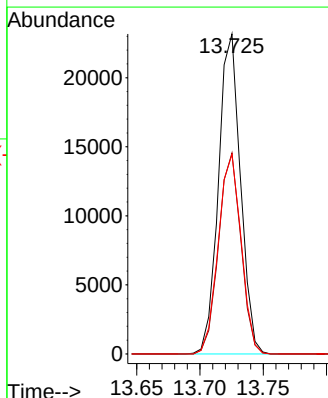
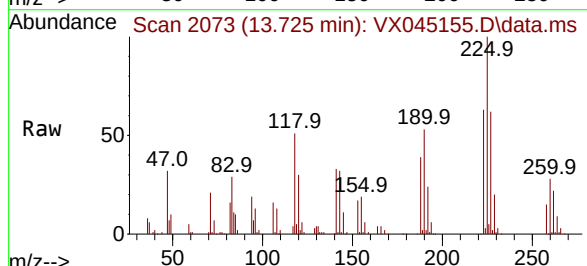
Tgt Ion:225 Resp: 27989

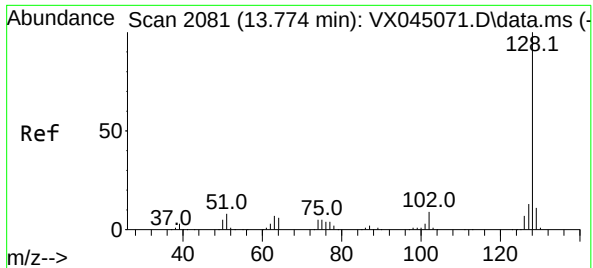
Ion Ratio Lower Upper

225 100

223 63.6 31.9 95.7

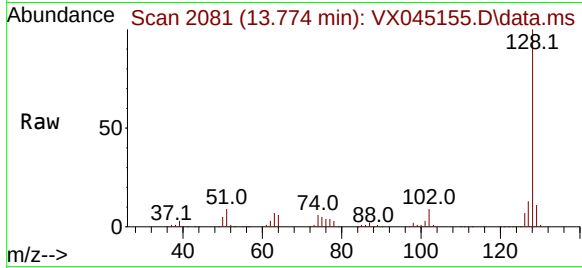
227 64.8 31.4 94.0





#95
Naphthalene
Concen: 53.234 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

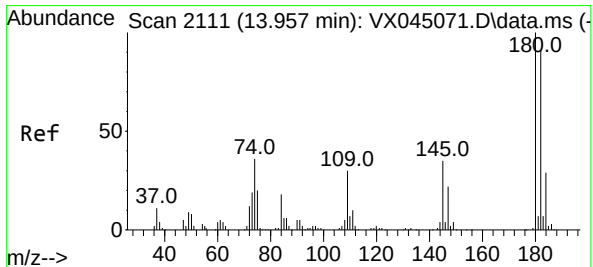
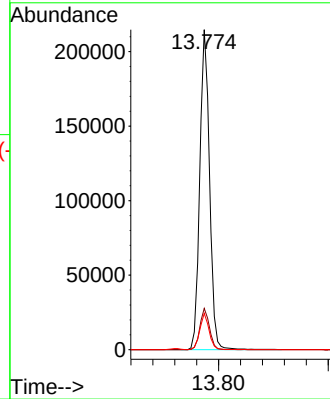
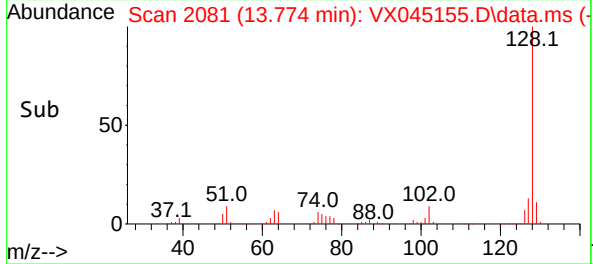
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:128 Resp: 266370
Ion Ratio Lower Upper
128 100
127 12.7 10.3 15.5
129 10.9 8.7 13.1

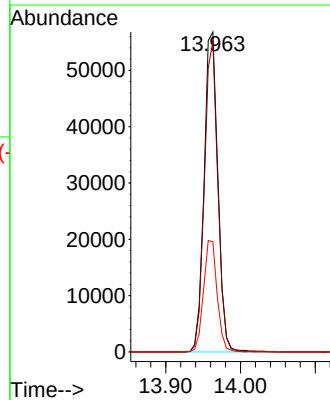
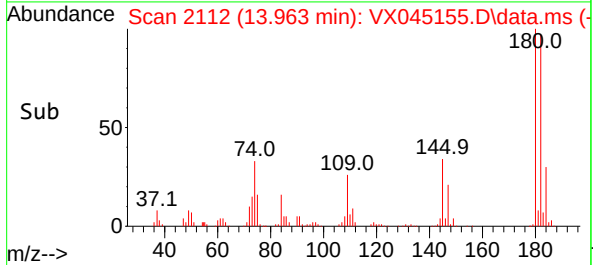
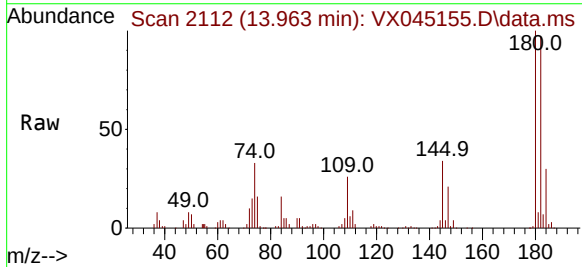
Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#96
1,2,3-Trichlorobenzene
Concen: 53.222 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:180 Resp: 73124
Ion Ratio Lower Upper
180 100
182 93.9 47.5 142.6
145 34.3 17.0 50.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045155.D
 Acq On : 06 Mar 2025 09:56
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Mar 07 00:36:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	96	0.00
2 T	Dichlorodifluoromethane	0.629	0.631	-0.3	97	0.00
3 P	Chloromethane	0.770	0.723	6.1	93	0.00
4 C	Vinyl Chloride	0.764	0.725	5.1#	92	0.00
5 T	Bromomethane	0.300	0.280	6.7	92	0.00
6 T	Chloroethane	0.352	0.298	15.3	77	0.00
7 T	Trichlorofluoromethane	1.011	0.973	3.8	89	0.00
8 T	Diethyl Ether	0.396	0.363	8.3	90	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.581	0.616	-6.0	100	0.00
10 T	Methyl Iodide	0.726	0.750	-3.3	94	0.00
11 T	Tert butyl alcohol	0.151	0.118	21.9	85	0.02
12 CM	1,1-Dichloroethene	0.614	0.600	2.3#	93	0.00
13 T	Acrolein	0.174	0.149	14.4	83	0.00
14 T	Allyl chloride	1.094	1.096	-0.2	95	0.00
15 T	Acrylonitrile	0.404	0.398	1.5	94	0.00
16 T	Acetone	0.369	0.345	6.5	95	0.00
17 T	Carbon Disulfide	1.636	1.462	10.6	85	0.00
18 T	Methyl Acetate	0.888	0.957	-7.8	106	0.00
19 T	Methyl tert-butyl Ether	2.061	2.015	2.2	93	0.00
20 T	Methylene Chloride	0.731	0.704	3.7	97	0.00
21 T	trans-1,2-Dichloroethene	0.607	0.610	-0.5	93	0.00
22 T	Diisopropyl ether	2.224	2.259	-1.6	95	0.00
23 T	Vinyl Acetate	1.856	1.909	-2.9	93	0.00
24 P	1,1-Dichloroethane	1.247	1.215	2.6	94	0.00
25 T	2-Butanone	0.555	0.564	-1.6	94	0.00
26 T	2,2-Dichloropropane	0.585	0.797	-36.2#	129	0.00
27 T	cis-1,2-Dichloroethene	0.749	0.750	-0.1	95	0.00
28 T	Bromochloromethane	0.594	0.551	7.2	88	0.00
29 T	Tetrahydrofuran	0.373	0.365	2.1	94	0.00
30 C	Chloroform	1.239	1.209	2.4#	94	0.00
31 T	Cyclohexane	1.082	1.086	-0.4	95	0.00
32 T	1,1,1-Trichloroethane	1.000	0.978	2.2	92	0.00
33 S	1,2-Dichloroethane-d4	0.795	0.783	1.5	100	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
35 S	Dibromofluoromethane	0.334	0.341	-2.1	98	0.00
36 T	1,1-Dichloropropene	0.459	0.458	0.2	92	0.00
37 T	Ethyl Acetate	0.591	0.593	-0.3	92	0.00
38 T	Carbon Tetrachloride	0.465	0.458	1.5	92	0.00
39 T	Methylcyclohexane	0.549	0.598	-8.9	96	0.00
40 TM	Benzene	1.448	1.464	-1.1	92	0.00
41 T	Methacrylonitrile	0.319	0.332	-4.1	92	0.00
42 TM	1,2-Dichloroethane	0.521	0.534	-2.5	96	0.00
43 T	Isopropyl Acetate	0.874	0.903	-3.3	92	0.00
44 TM	Trichloroethene	0.340	0.341	-0.3	95	0.00
45 C	1,2-Dichloropropane	0.372	0.377	-1.3#	96	0.00
46 T	Dibromomethane	0.263	0.272	-3.4	95	0.00
47 T	Bromodichloromethane	0.516	0.523	-1.4	94	0.00
48 T	Methyl methacrylate	0.438	0.456	-4.1	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045155.D
 Acq On : 06 Mar 2025 09:56
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Mar 07 00:36:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.009	0.009	0.0	93	0.00
50 S	Toluene-d8	1.212	1.244	-2.6	97	0.00
51 T	4-Methyl-2-Pentanone	0.587	0.616	-4.9	95	0.00
52 CM	Toluene	0.849	0.893	-5.2#	94	0.00
53 T	t-1,3-Dichloropropene	0.431	0.467	-8.4	94	0.00
54 T	cis-1,3-Dichloropropene	0.503	0.544	-8.2	96	0.00
55 T	1,1,2-Trichloroethane	0.350	0.355	-1.4	94	0.00
56 T	Ethyl methacrylate	0.532	0.557	-4.7	92	0.00
57 T	1,3-Dichloropropane	0.605	0.612	-1.2	93	0.00
58 T	2-Chloroethyl Vinyl ether	0.259	0.284	-9.7	94	0.00
59 T	2-Hexanone	0.425	0.451	-6.1	95	0.00
60 T	Dibromochloromethane	0.366	0.378	-3.3	93	0.00
61 T	1,2-Dibromoethane	0.349	0.353	-1.1	94	0.00
62 S	4-Bromofluorobenzene	0.402	0.419	-4.2	98	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00
64 T	Tetrachloroethene	0.320	0.322	-0.6	94	0.00
65 PM	Chlorobenzene	1.058	1.078	-1.9	94	0.00
66 T	1,1,1,2-Tetrachloroethane	0.352	0.353	-0.3	94	0.00
67 C	Ethyl Benzene	1.843	1.931	-4.8#	94	0.00
68 T	m/p-Xylenes	0.675	0.704	-4.3	92	0.00
69 T	o-Xylene	0.681	0.694	-1.9	93	0.00
70 T	Styrene	1.101	1.163	-5.6	93	0.00
71 P	Bromoform	0.266	0.266	0.0	91	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
73 T	Isopropylbenzene	3.903	3.979	-1.9	94	0.00
74 T	N-amyl acetate	1.831	1.898	-3.7	93	0.00
75 P	1,1,2,2-Tetrachloroethane	1.432	1.414	1.3	97	0.00
76 T	1,2,3-Trichloropropane	1.164	1.142	1.9	97	0.00
77 T	Bromobenzene	0.921	0.925	-0.4	96	0.00
78 T	n-propylbenzene	4.409	4.654	-5.6	94	0.00
79 T	2-Chlorotoluene	2.808	2.793	0.5	95	0.00
80 T	1,3,5-Trimethylbenzene	3.156	3.242	-2.7	93	0.00
81 T	trans-1,4-Dichloro-2-butene	0.340	0.352	-3.5	101	0.00
82 T	4-Chlorotoluene	3.060	3.111	-1.7	94	0.00
83 T	tert-Butylbenzene	3.242	3.270	-0.9	94	0.00
84 T	1,2,4-Trimethylbenzene	3.175	3.275	-3.1	94	0.00
85 T	sec-Butylbenzene	3.884	4.093	-5.4	95	0.00
86 T	p-Isopropyltoluene	3.139	3.371	-7.4	96	0.00
87 T	1,3-Dichlorobenzene	1.643	1.638	0.3	96	0.00
88 T	1,4-Dichlorobenzene	1.662	1.644	1.1	95	0.00
89 T	n-Butylbenzene	2.703	3.021	-11.8	98	0.00
90 T	Hexachloroethane	0.568	0.565	0.5	91	0.00
91 T	1,2-Dichlorobenzene	1.648	1.687	-2.4	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.279	0.286	-2.5	96	0.00
93 T	1,2,4-Trichlorobenzene	0.938	1.010	-7.7	98	0.00
94 T	Hexachlorobutadiene	0.385	0.403	-4.7	100	0.00
95 T	Naphthalene	3.605	3.838	-6.5	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045155.D
Acq On : 06 Mar 2025 09:56
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 07 00:36:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.990	1.054	-6.5	97	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045155.D
 Acq On : 06 Mar 2025 09:56
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Mar 07 00:36:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	96	0.00
2 T	Dichlorodifluoromethane	50.000	50.150	-0.3	97	0.00
3 P	Chloromethane	50.000	46.958	6.1	93	0.00
4 C	Vinyl Chloride	50.000	47.434	5.1#	92	0.00
5 T	Bromomethane	50.000	46.654	6.7	92	0.00
6 T	Chloroethane	50.000	42.341	15.3	77	0.00
7 T	Trichlorofluoromethane	50.000	48.081	3.8	89	0.00
8 T	Diethyl Ether	50.000	45.821	8.4	90	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	52.999	-6.0	100	0.00
10 T	Methyl Iodide	50.000	51.610	-3.2	94	0.00
11 T	Tert butyl alcohol	250.000	195.202	21.9	85	0.02
12 CM	1,1-Dichloroethene	50.000	48.789	2.4#	93	0.00
13 T	Acrolein	250.000	213.430	14.6	83	0.00
14 T	Allyl chloride	50.000	50.112	-0.2	95	0.00
15 T	Acrylonitrile	250.000	246.689	1.3	94	0.00
16 T	Acetone	250.000	233.847	6.5	95	0.00
17 T	Carbon Disulfide	50.000	44.684	10.6	85	0.00
18 T	Methyl Acetate	50.000	53.893	-7.8	106	0.00
19 T	Methyl tert-butyl Ether	50.000	48.872	2.3	93	0.00
20 T	Methylene Chloride	50.000	48.172	3.7	97	0.00
21 T	trans-1,2-Dichloroethene	50.000	50.255	-0.5	93	0.00
22 T	Diisopropyl ether	50.000	50.793	-1.6	95	0.00
23 T	Vinyl Acetate	250.000	257.151	-2.9	93	0.00
24 P	1,1-Dichloroethane	50.000	48.731	2.5	94	0.00
25 T	2-Butanone	250.000	253.939	-1.6	94	0.00
26 T	2,2-Dichloropropane	50.000	68.182	-36.4#	129	0.00
27 T	cis-1,2-Dichloroethene	50.000	50.079	-0.2	95	0.00
28 T	Bromochloromethane	50.000	46.329	7.3	88	0.00
29 T	Tetrahydrofuran	250.000	244.426	2.2	94	0.00
30 C	Chloroform	50.000	48.804	2.4#	94	0.00
31 T	Cyclohexane	50.000	50.191	-0.4	95	0.00
32 T	1,1,1-Trichloroethane	50.000	48.875	2.3	92	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.233	1.5	100	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	94	0.00
35 S	Dibromofluoromethane	50.000	50.978	-2.0	98	0.00
36 T	1,1-Dichloropropene	50.000	49.941	0.1	92	0.00
37 T	Ethyl Acetate	50.000	50.173	-0.3	92	0.00
38 T	Carbon Tetrachloride	50.000	49.163	1.7	92	0.00
39 T	Methylcyclohexane	50.000	54.417	-8.8	96	0.00
40 TM	Benzene	50.000	50.564	-1.1	92	0.00
41 T	Methacrylonitrile	50.000	51.935	-3.9	92	0.00
42 TM	1,2-Dichloroethane	50.000	51.224	-2.4	96	0.00
43 T	Isopropyl Acetate	50.000	51.671	-3.3	92	0.00
44 TM	Trichloroethene	50.000	50.205	-0.4	95	0.00
45 C	1,2-Dichloropropane	50.000	50.625	-1.3#	96	0.00
46 T	Dibromomethane	50.000	51.739	-3.5	95	0.00
47 T	Bromodichloromethane	50.000	50.685	-1.4	94	0.00
48 T	Methyl methacrylate	50.000	51.991	-4.0	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045155.D
 Acq On : 06 Mar 2025 09:56
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Mar 07 00:36:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1004.564	-0.5	93	0.00
50 S	Toluene-d8	50.000	51.298	-2.6	97	0.00
51 T	4-Methyl-2-Pentanone	250.000	262.414	-5.0	95	0.00
52 CM	Toluene	50.000	52.538	-5.1#	94	0.00
53 T	t-1,3-Dichloropropene	50.000	54.074	-8.1	94	0.00
54 T	cis-1,3-Dichloropropene	50.000	54.055	-8.1	96	0.00
55 T	1,1,2-Trichloroethane	50.000	50.685	-1.4	94	0.00
56 T	Ethyl methacrylate	50.000	52.367	-4.7	92	0.00
57 T	1,3-Dichloropropane	50.000	50.592	-1.2	93	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	274.113	-9.6	94	0.00
59 T	2-Hexanone	250.000	264.998	-6.0	95	0.00
60 T	Dibromochloromethane	50.000	51.634	-3.3	93	0.00
61 T	1,2-Dibromoethane	50.000	50.561	-1.1	94	0.00
62 S	4-Bromofluorobenzene	50.000	52.170	-4.3	98	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	95	0.00
64 T	Tetrachloroethene	50.000	50.303	-0.6	94	0.00
65 PM	Chlorobenzene	50.000	50.951	-1.9	94	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	50.032	-0.1	94	0.00
67 C	Ethyl Benzene	50.000	52.376	-4.8#	94	0.00
68 T	m/p-Xylenes	100.000	104.329	-4.3	92	0.00
69 T	o-Xylene	50.000	51.019	-2.0	93	0.00
70 T	Styrene	50.000	52.810	-5.6	93	0.00
71 P	Bromoform	50.000	49.970	0.1	91	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	97	0.00
73 T	Isopropylbenzene	50.000	50.984	-2.0	94	0.00
74 T	N-amyl acetate	50.000	51.811	-3.6	93	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.376	1.2	97	0.00
76 T	1,2,3-Trichloropropane	50.000	49.083	1.8	97	0.00
77 T	Bromobenzene	50.000	50.213	-0.4	96	0.00
78 T	n-propylbenzene	50.000	52.781	-5.6	94	0.00
79 T	2-Chlorotoluene	50.000	49.740	0.5	95	0.00
80 T	1,3,5-Trimethylbenzene	50.000	51.365	-2.7	93	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	51.737	-3.5	101	0.00
82 T	4-Chlorotoluene	50.000	50.836	-1.7	94	0.00
83 T	tert-Butylbenzene	50.000	50.423	-0.8	94	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.566	-3.1	94	0.00
85 T	sec-Butylbenzene	50.000	52.696	-5.4	95	0.00
86 T	p-Isopropyltoluene	50.000	53.707	-7.4	96	0.00
87 T	1,3-Dichlorobenzene	50.000	49.852	0.3	96	0.00
88 T	1,4-Dichlorobenzene	50.000	49.469	1.1	95	0.00
89 T	n-Butylbenzene	50.000	55.868	-11.7	98	0.00
90 T	Hexachloroethane	50.000	49.718	0.6	91	0.00
91 T	1,2-Dichlorobenzene	50.000	51.199	-2.4	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	51.248	-2.5	96	0.00
93 T	1,2,4-Trichlorobenzene	50.000	53.845	-7.7	98	0.00
94 T	Hexachlorobutadiene	50.000	52.418	-4.8	100	0.00
95 T	Naphthalene	50.000	53.234	-6.5	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045155.D
Acq On : 06 Mar 2025 09:56
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 07 00:36:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	53.222	-6.4	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



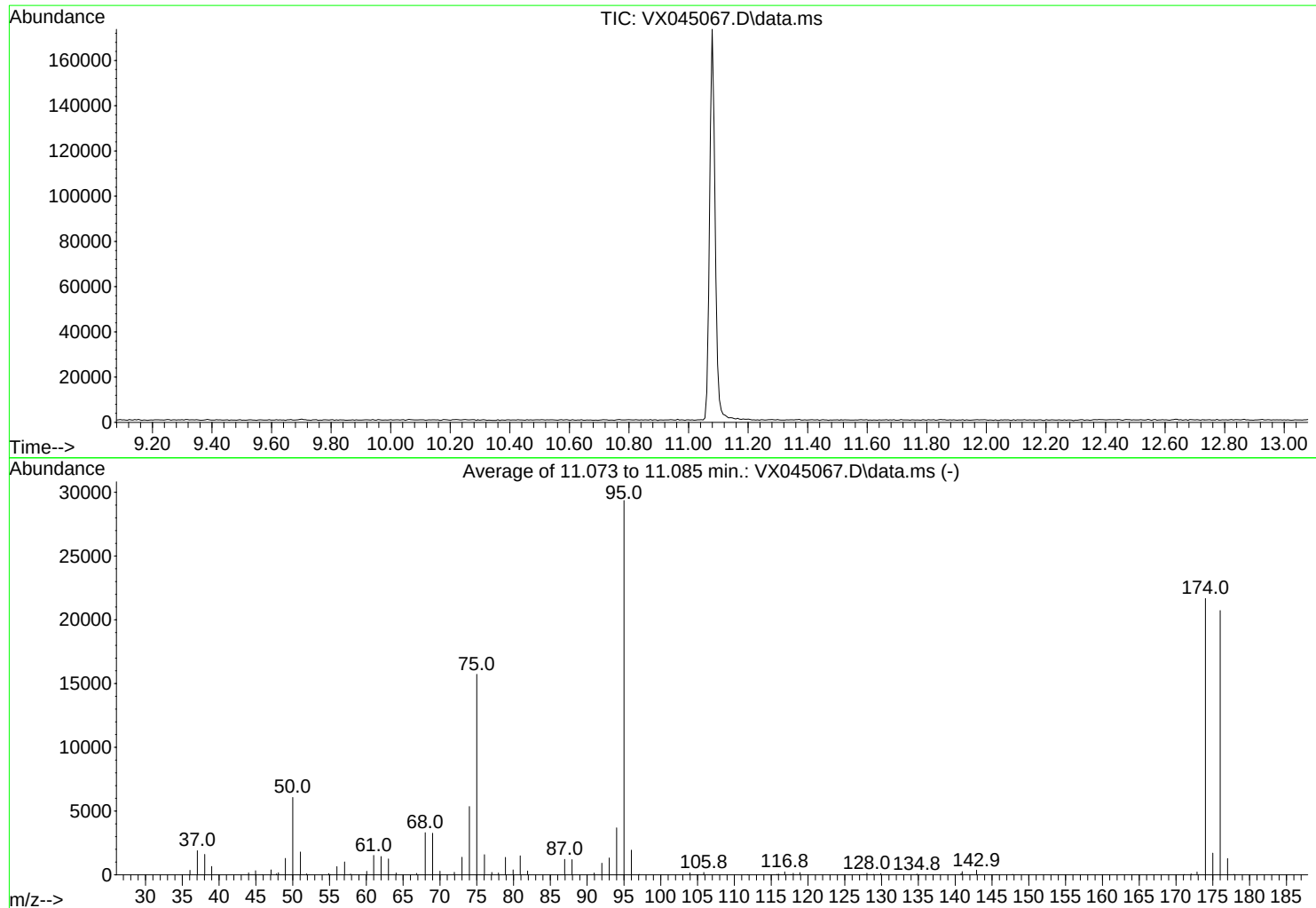
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045067.D
Acq On : 28 Feb 2025 01:03
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Title : SW846 8260
Last Update : Fri Feb 28 06:45:16 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

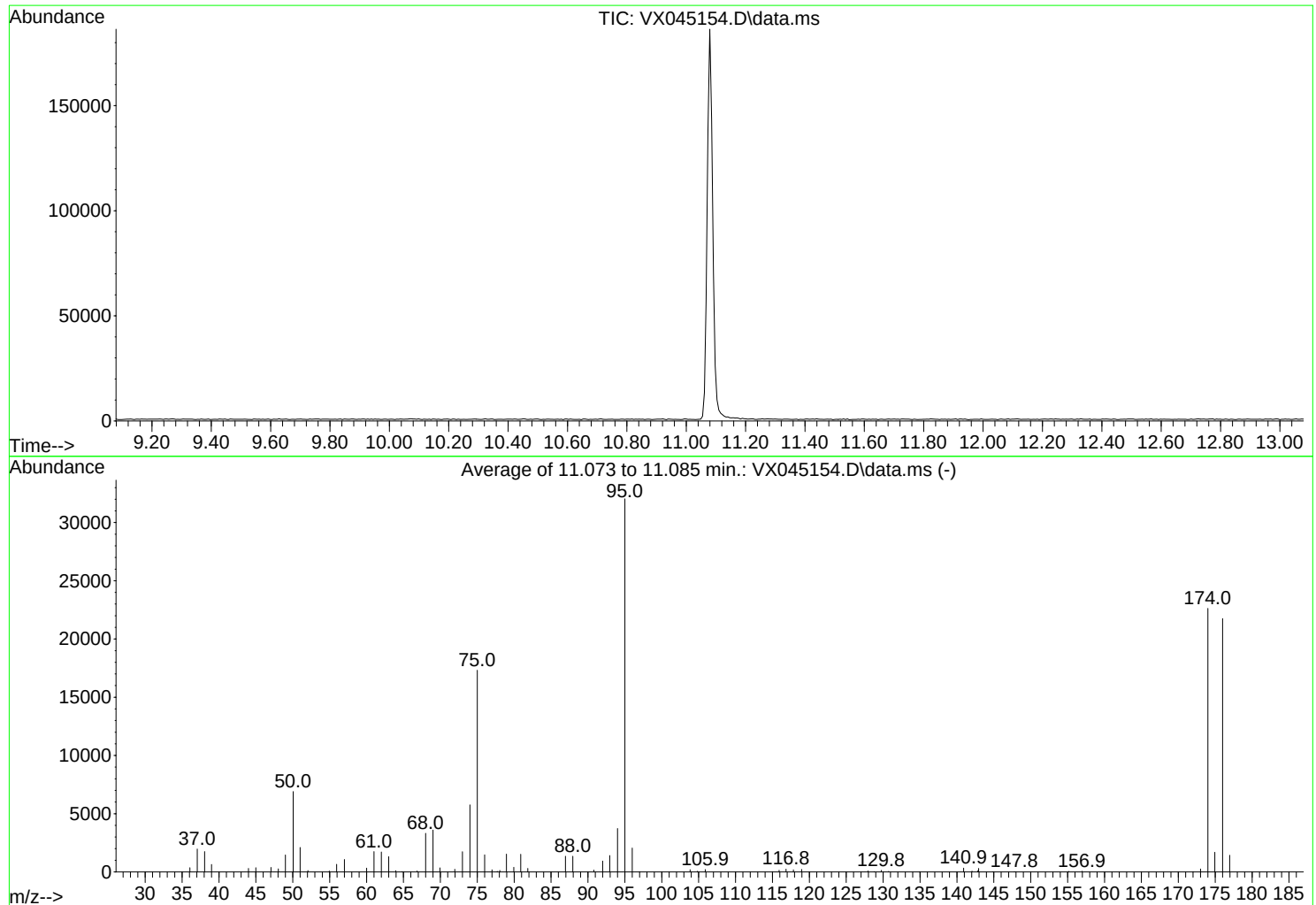
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.7	6072	PASS
75	95	30	60	53.6	15726	PASS
95	95	100	100	100.0	29360	PASS
96	95	5	9	6.6	1942	PASS
173	174	0.00	2	1.0	219	PASS
174	95	50	100	73.8	21677	PASS
175	174	5	9	7.9	1702	PASS
176	174	95	101	95.6	20723	PASS
177	176	5	9	6.2	1277	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045154.D
Acq On : 06 Mar 2025 09:09
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Title : SW846 8260
Last Update : Fri Feb 28 06:45:16 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.5	6899	PASS
75	95	30	60	54.0	17313	PASS
95	95	100	100	100.0	32037	PASS
96	95	5	9	6.4	2059	PASS
173	174	0.00	2	1.1	256	PASS
174	95	50	100	70.6	22629	PASS
175	174	5	9	7.5	1688	PASS
176	174	95	101	96.1	21751	PASS
177	176	5	9	6.6	1434	PASS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0306WBL01	SDG No.:	Q1488
Lab Sample ID:	VX0306WBL01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045157.D	1		03/06/25 10:46	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.9		70 (74) - 130 (125)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	52.4		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	52.3		70 (86) - 130 (113)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.8		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	71200	5.544			
540-36-3	1,4-Difluorobenzene	140000	6.757			
3114-55-4	Chlorobenzene-d5	129000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	53700	12.024			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045157.D
 Acq On : 06 Mar 2025 10:46
 Operator : JC/MD
 Sample : VX0306WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0306WBL01

Quant Time: Mar 07 00:37:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	71177	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	139793	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	129041	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	53719	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	61044	53.917	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	107.840%
35) Dibromofluoromethane	5.379	113	48946	52.362	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.720%
50) Toluene-d8	8.647	98	177288	52.315	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.640%
62) 4-Bromofluorobenzene	11.079	95	58160	51.792	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	103.580%

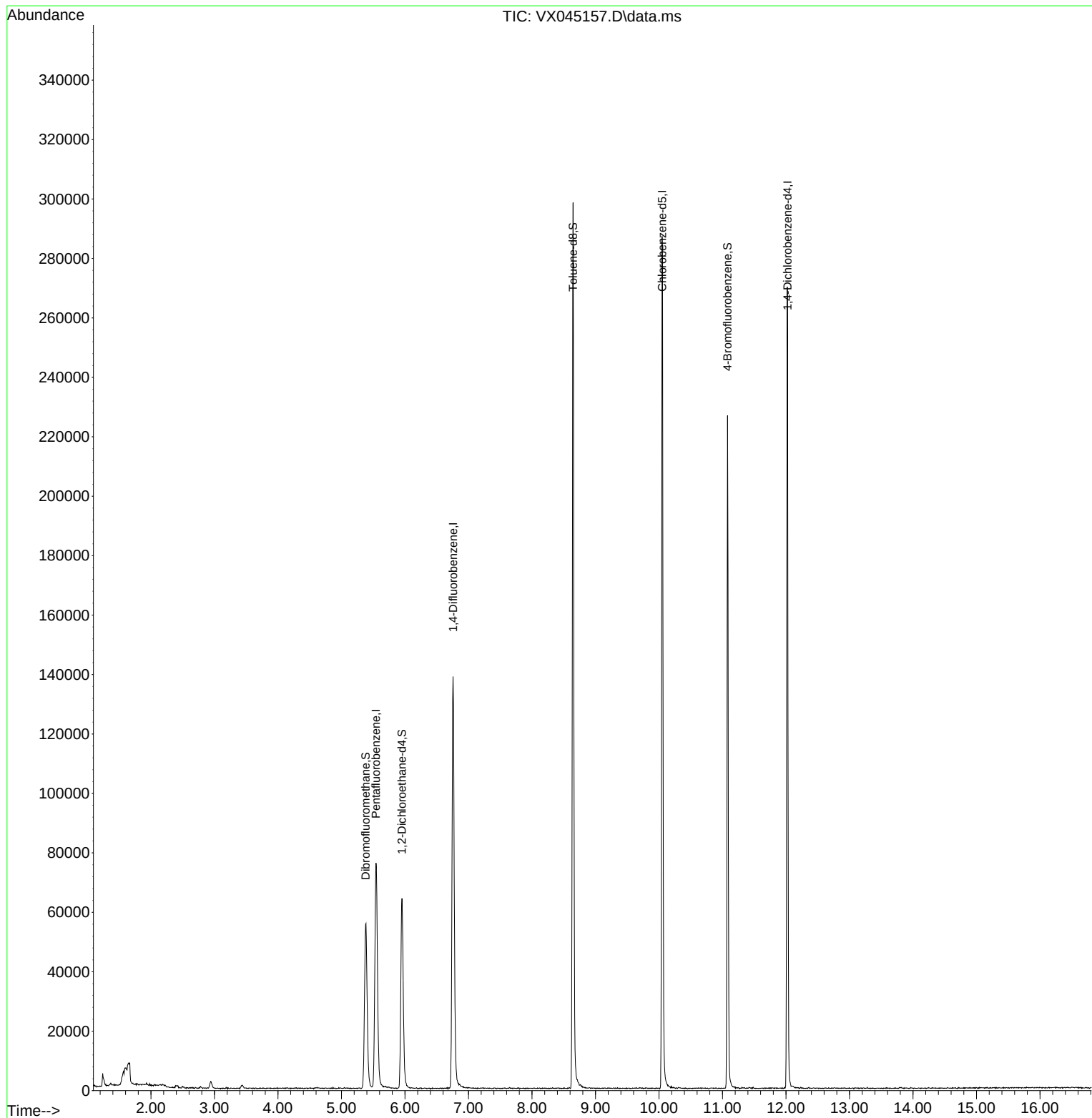
Target Compounds	Qvalue

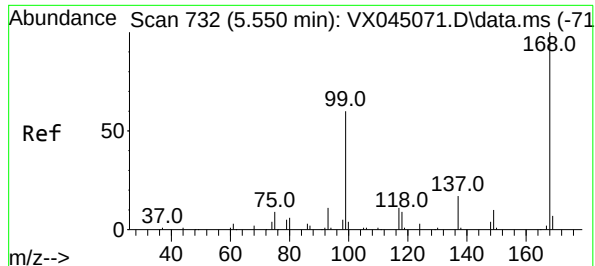
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045157.D
Acq On : 06 Mar 2025 10:46
Operator : JC/MD
Sample : VX0306WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

Quant Time: Mar 07 00:37:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.544 min Scan# 71

Delta R.T. -0.006 min

Lab File: VX045157.D

Acq: 06 Mar 2025 10:46

Instrument :

MSVOA_X

ClientSampleId :

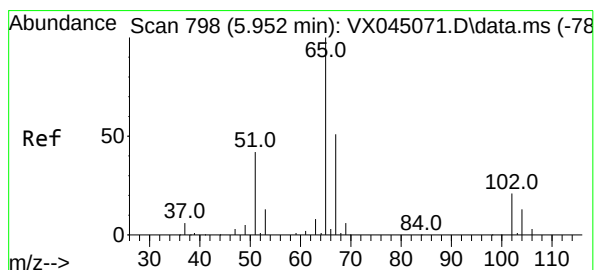
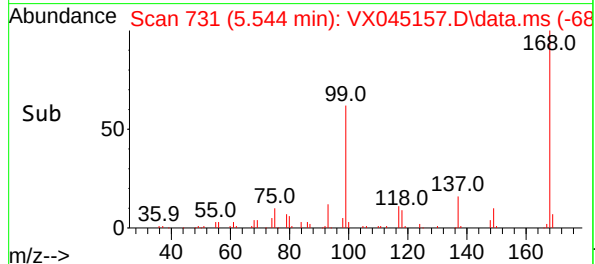
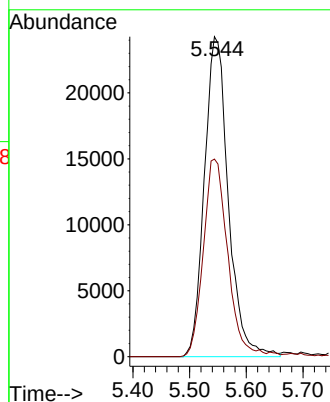
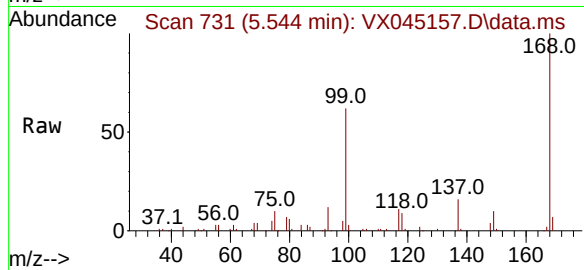
VX0306WBL01

Tgt Ion:168 Resp: 71177

Ion Ratio Lower Upper

168 100

99 61.8 48.2 72.4



#33

1,2-Dichloroethane-d4

Concen: 53.917 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045157.D

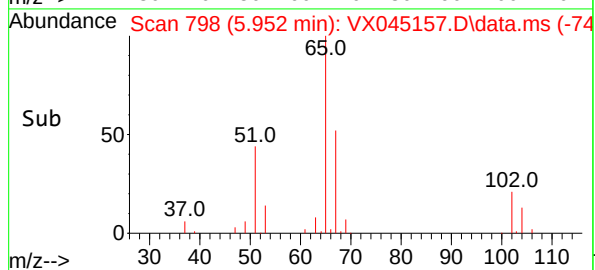
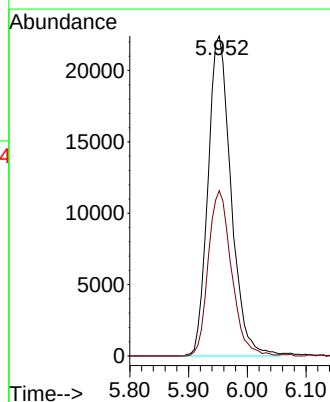
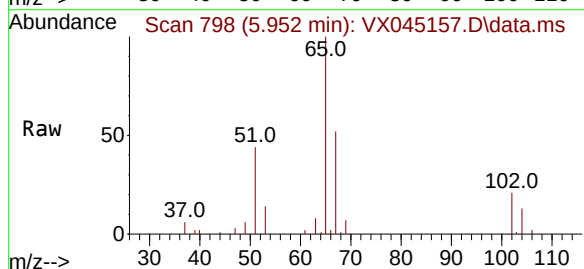
Acq: 06 Mar 2025 10:46

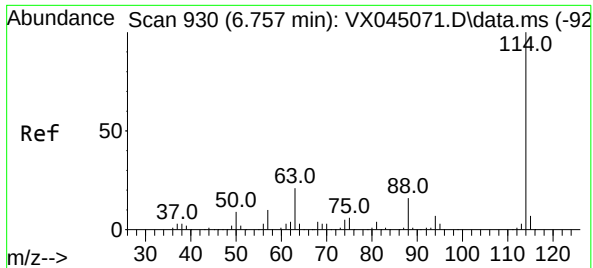
Tgt Ion: 65 Resp: 61044

Ion Ratio Lower Upper

65 100

67 52.1 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX045157.D

Acq: 06 Mar 2025 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBL01

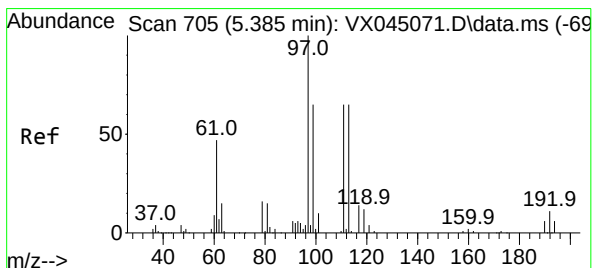
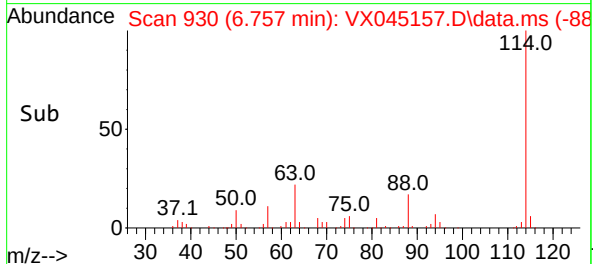
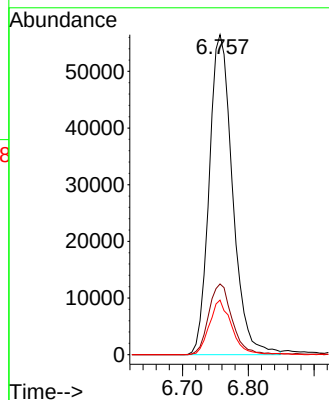
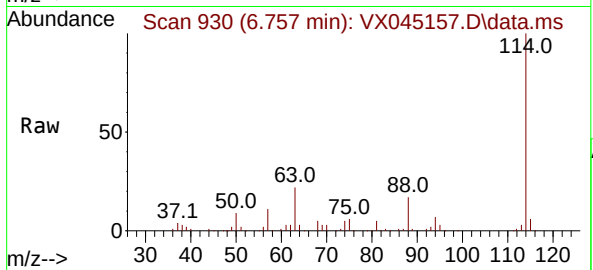
Tgt Ion:114 Resp: 139793

Ion Ratio Lower Upper

114 100

63 22.1 0.0 41.8

88 17.1 0.0 32.8



#35

Dibromofluoromethane

Concen: 52.362 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX045157.D

Acq: 06 Mar 2025 10:46

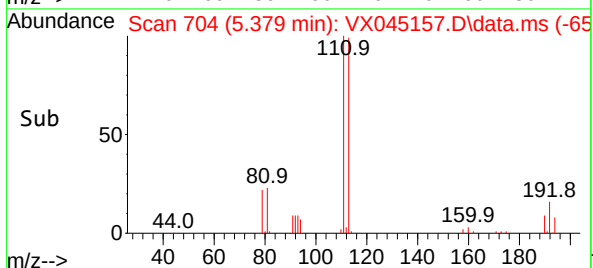
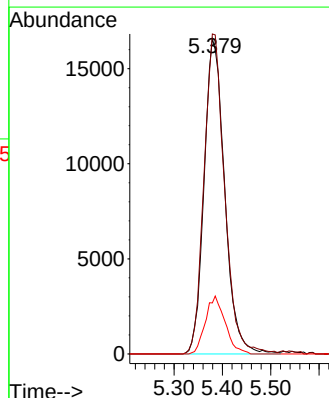
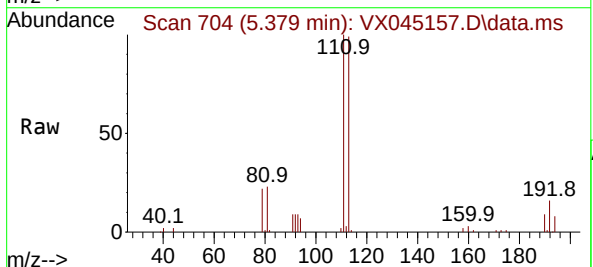
Tgt Ion:113 Resp: 48946

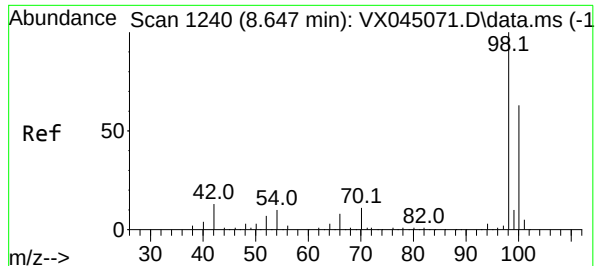
Ion Ratio Lower Upper

113 100

111 101.8 81.8 122.6

192 17.7 14.3 21.5





#50

Toluene-d8

Concen: 52.315 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX045157.D

Acq: 06 Mar 2025 10:46

Instrument :

MSVOA_X

ClientSampleId :

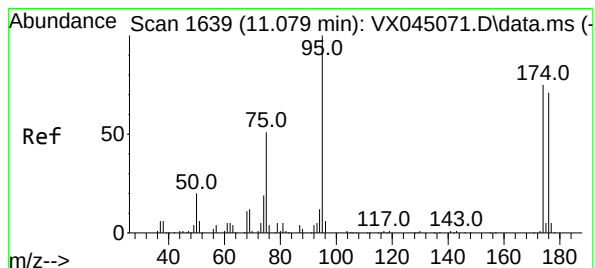
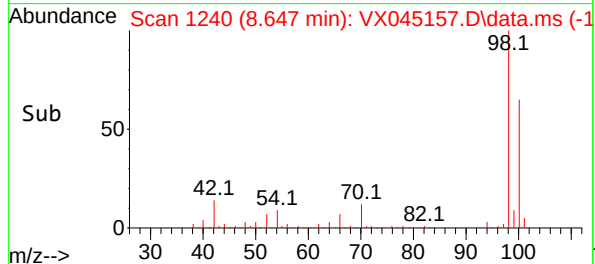
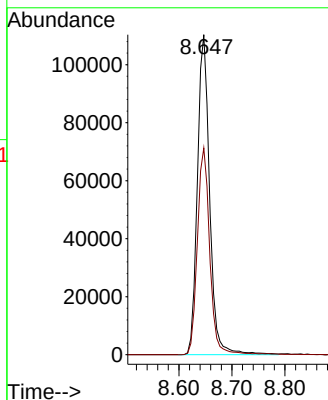
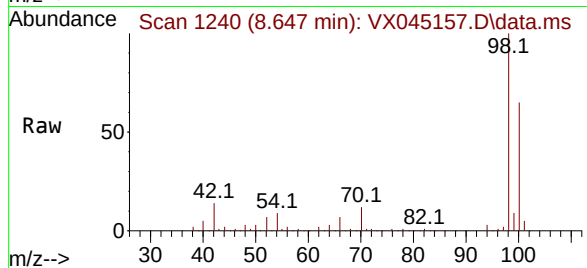
VX0306WBL01

Tgt Ion: 98 Resp: 177288

Ion Ratio Lower Upper

98 100

100 65.5 52.0 78.0



#62

4-Bromofluorobenzene

Concen: 51.792 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX045157.D

Acq: 06 Mar 2025 10:46

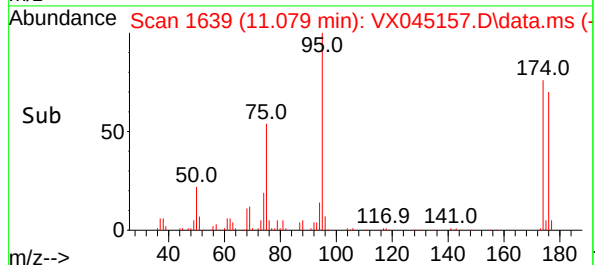
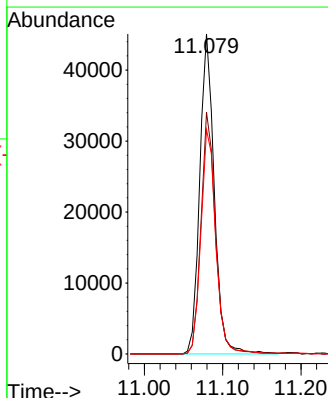
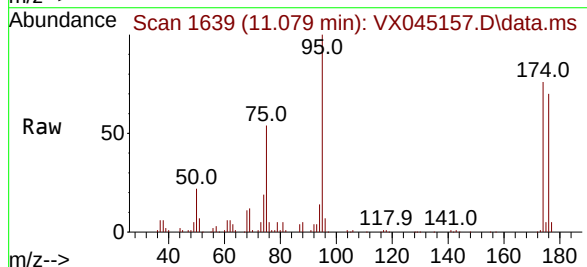
Tgt Ion: 95 Resp: 58160

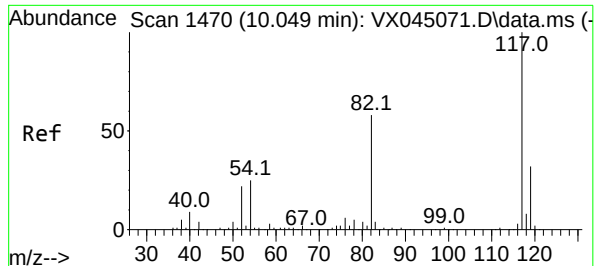
Ion Ratio Lower Upper

95 100

174 75.2 0.0 148.2

176 71.7 0.0 141.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX045157.D

Acq: 06 Mar 2025 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBL01

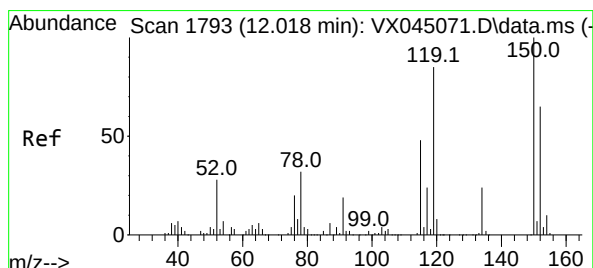
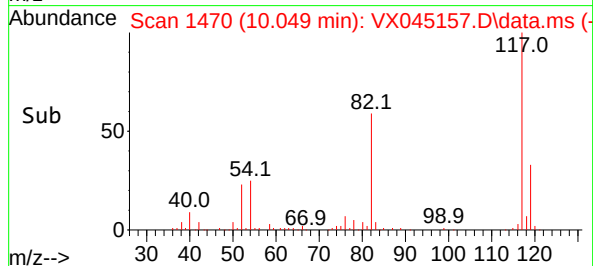
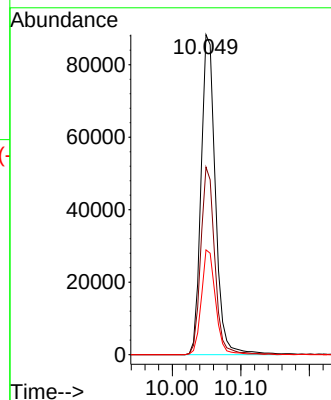
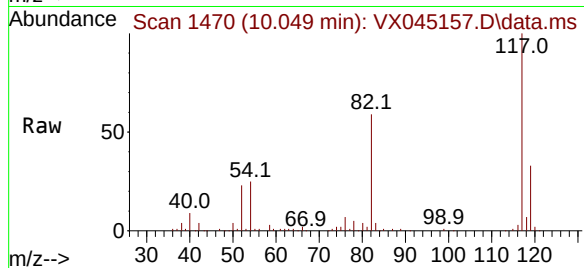
Tgt Ion:117 Resp: 129041

Ion Ratio Lower Upper

117 100

82 58.6 46.3 69.5

119 32.8 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.006 min

Lab File: VX045157.D

Acq: 06 Mar 2025 10:46

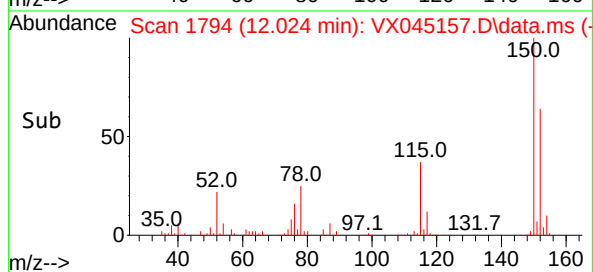
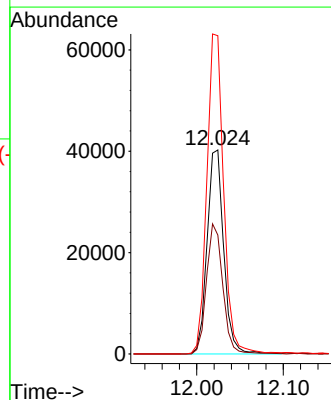
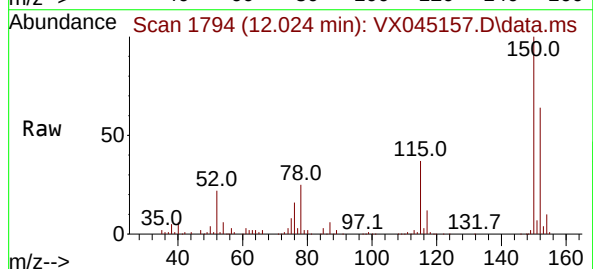
Tgt Ion:152 Resp: 53719

Ion Ratio Lower Upper

152 100

115 62.5 44.2 132.6

150 159.1 0.0 349.0



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0306WBS01	SDG No.:	Q1488
Lab Sample ID:	VX0306WBS01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045158.D	1		03/06/25 11:10	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	19.4		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	21.3		0.26	1.00	ug/L
78-93-3	2-Butanone	100		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.5		0.25	1.00	ug/L
67-66-3	Chloroform	21.2		0.26	1.00	ug/L
71-43-2	Benzene	21.5		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.4		0.24	1.00	ug/L
79-01-6	Trichloroethene	20.8		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	22.2		0.25	1.00	ug/L
108-90-7	Chlorobenzene	21.6		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.2		70 (74) - 130 (125)	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	50.3		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.2		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	97100	5.544			
540-36-3	1,4-Difluorobenzene	176000	6.757			
3114-55-4	Chlorobenzene-d5	148000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	67100	12.024			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045158.D
 Acq On : 06 Mar 2025 11:10
 Operator : JC/MD
 Sample : VX0306WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0306WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/10/2025
 Supervised By : Mahesh Dadoda 03/10/2025

Quant Time: Mar 07 00:37:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	97102	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	175752	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	147757	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	67123	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	77517	50.187	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.380%			
35) Dibromofluoromethane	5.385	113	59755	50.846	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.700%			
50) Toluene-d8	8.647	98	214149	50.263	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.520%			
62) 4-Bromofluorobenzene	11.079	95	69431	49.179	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.360%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	25313	20.710	ug/l	96
3) Chloromethane	1.307	50	28610	19.127	ug/l	99
4) Vinyl Chloride	1.374	62	28735	19.365	ug/l	96
5) Bromomethane	1.593	94	11051	18.945	ug/l	98
6) Chloroethane	1.660	64	11910	17.401	ug/l	94
7) Trichlorofluoromethane	1.861	101	41329	21.039	ug/l	98
8) Diethyl Ether	2.136	74	15031	19.563	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.312	101	25913	22.961	ug/l	99
10) Methyl Iodide	2.440	142	28535	20.232	ug/l	97
11) Tert butyl alcohol	2.995	59	24878	85.035	ug/l	99
12) 1,1-Dichloroethene	2.306	96	25437	21.319	ug/l	96
13) Acrolein	2.239	56	32240	95.330	ug/l	97
14) Allyl chloride	2.654	41	45464	21.406	ug/l	99
15) Acrylonitrile	3.068	53	80620	102.818	ug/l	100
16) Acetone	2.392	43	70356	98.177	ug/l	100
17) Carbon Disulfide	2.495	76	56434	17.758	ug/l	100
18) Methyl Acetate	2.709	43	38789	22.500	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	83027	20.741	ug/l	98
20) Methylene Chloride	2.782	84	28513	20.086	ug/l	93
21) trans-1,2-Dichloroethene	3.081	96	25882	21.957	ug/l	92
22) Diisopropyl ether	3.763	45	92263	21.360	ug/l	92
23) Vinyl Acetate	3.721	43	379422	105.258	ug/l	99
24) 1,1-Dichloroethane	3.605	63	50777	20.975	ug/l	99
25) 2-Butanone	4.568	43	112114	103.935	ug/l	100
26) 2,2-Dichloropropane	4.464	77	31636	27.861	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	30793	21.161	ug/l	95
28) Bromochloromethane	4.897	49	20937	18.145	ug/l	98
29) Tetrahydrofuran	5.007	42	72574	100.185	ug/l	99
30) Chloroform	5.092	83	50960	21.186	ug/l	100
31) Cyclohexane	5.458	56	46499	22.128	ug/l	91
32) 1,1,1-Trichloroethane	5.379	97	40911	21.059	ug/l	98
36) 1,1-Dichloropropene	5.684	75	34442	21.370	ug/l	99
37) Ethyl Acetate	4.714	43	41415	19.942	ug/l	100
38) Carbon Tetrachloride	5.672	117	33530	20.492	ug/l	98
39) Methylcyclohexane	7.372	83	44224	22.900	ug/l	97
40) Benzene	6.031	78	109500	21.516	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045158.D
 Acq On : 06 Mar 2025 11:10
 Operator : JC/MD
 Sample : VX0306WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0306WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/10/2025
 Supervised By : Mahesh Dadoda 03/10/2025

Quant Time: Mar 07 00:37:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	23322	20.769	ug/l	99
42) 1,2-Dichloroethane	6.086	62	39213	21.397	ug/l	100
43) Isopropyl Acetate	6.342	43	62094	20.220	ug/l	100
44) Trichloroethene	7.123	130	24906	20.842	ug/l	97
45) 1,2-Dichloropropane	7.427	63	27481	21.002	ug/l	99
46) Dibromomethane	7.580	93	19832	21.443	ug/l	98
47) Bromodichloromethane	7.818	83	37772	20.821	ug/l	97
48) Methyl methacrylate	7.696	41	31277	20.301	ug/l	98
49) 1,4-Dioxane	7.665	88	13860	426.482	ug/l	99
51) 4-Methyl-2-Pentanone	8.573	43	215309	104.420	ug/l	99
52) Toluene	8.714	92	65138	21.814	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	30950	20.407	ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	37460	21.182	ug/l	96
55) 1,1,2-Trichloroethane	9.153	97	24854	20.219	ug/l	97
56) Ethyl methacrylate	9.116	69	37529	20.084	ug/l	97
57) 1,3-Dichloropropane	9.305	76	43951	20.660	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	89701	98.410	ug/l	99
59) 2-Hexanone	9.433	43	158142	105.853	ug/l	99
60) Dibromochloromethane	9.518	129	25020	19.466	ug/l	99
61) 1,2-Dibromoethane	9.610	107	24964	20.343	ug/l	100
64) Tetrachloroethene	9.268	164	21040	22.233	ug/l	91
65) Chlorobenzene	10.079	112	67652	21.638	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	21012	20.181	ug/l	97
67) Ethyl Benzene	10.189	91	118147	21.687	ug/l	99
68) m/p-Xylenes	10.299	106	87720	43.986	ug/l	99
69) o-Xylene	10.640	106	43323	21.539	ug/l	99
70) Styrene	10.652	104	70623	21.700	ug/l	99
71) Bromoform	10.799	173	15238	19.408	ug/l #	100
73) Isopropylbenzene	10.963	105	111617	21.304	ug/l	100
74) N-amyl acetate	10.841	43	50220	20.428	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	39941	20.775	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	31293m	20.030	ug/l	
77) Bromobenzene	11.195	156	25608	20.716	ug/l	100
78) n-propylbenzene	11.305	91	126790	21.423	ug/l	100
79) 2-Chlorotoluene	11.360	91	77393	20.533	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	91126	21.511	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	7740	16.954	ug/l #	82
82) 4-Chlorotoluene	11.451	91	87322	21.257	ug/l	99
83) tert-Butylbenzene	11.713	119	91061	20.921	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	91832	21.544	ug/l	100
85) sec-Butylbenzene	11.890	105	112914	21.656	ug/l	100
86) p-Isopropyltoluene	12.006	119	90968	21.589	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	45783	20.761	ug/l	99
88) 1,4-Dichlorobenzene	12.042	146	46189	20.703	ug/l	97
89) n-Butylbenzene	12.329	91	79568	21.925	ug/l	99
90) Hexachloroethane	12.536	117	14633	19.200	ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	46647	21.087	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7641	20.400	ug/l	95
93) 1,2,4-Trichlorobenzene	13.585	180	26728	21.219	ug/l	99
94) Hexachlorobutadiene	13.725	225	11477	22.224	ug/l	96
95) Naphthalene	13.774	128	102859	21.254	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	28765	21.647	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045158.D
Acq On : 06 Mar 2025 11:10
Operator : JC/MD
Sample : VX0306WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

Quant Time: Mar 07 00:37:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

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

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

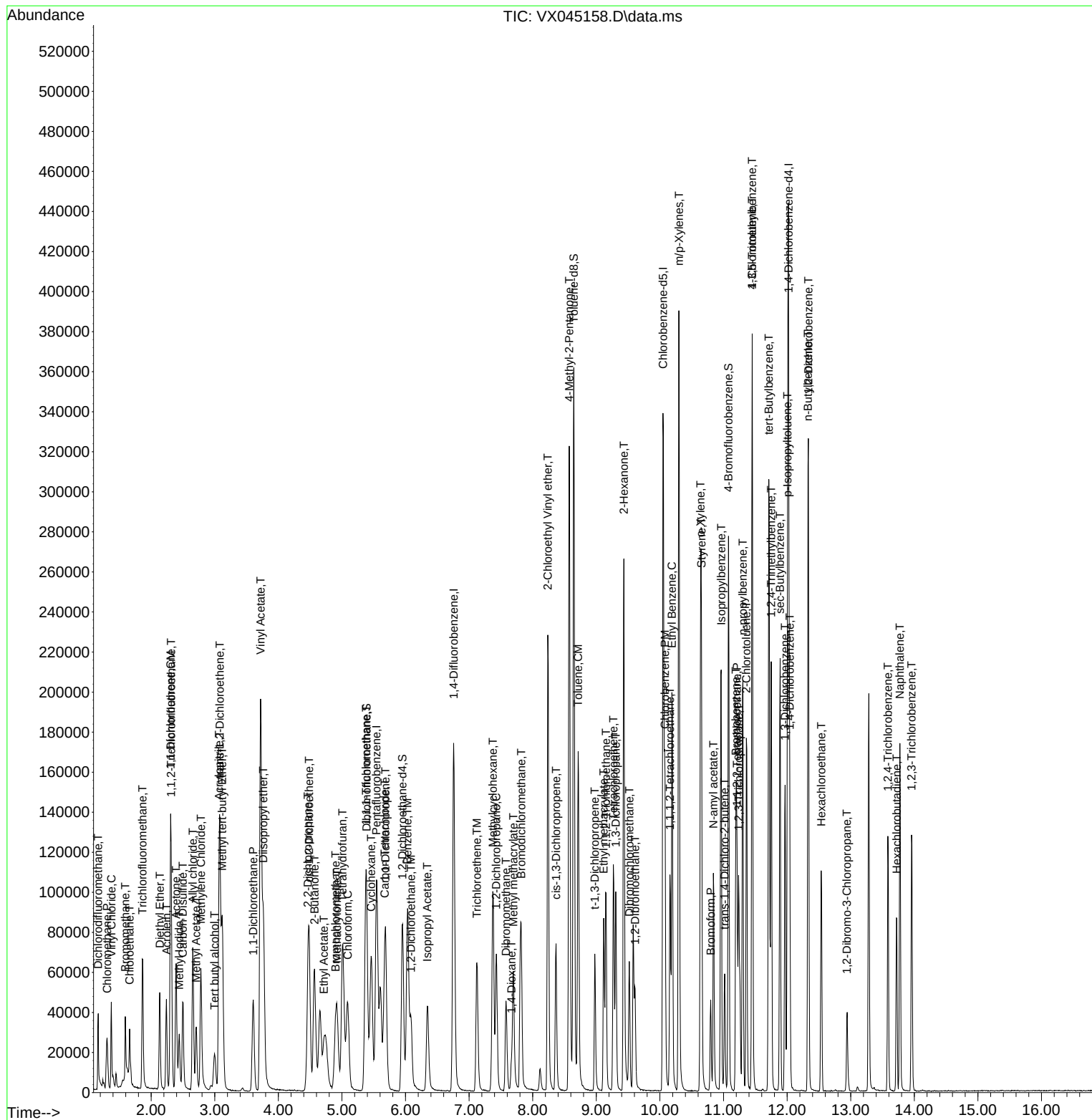
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045158.D
Acq On : 06 Mar 2025 11:10
Operator : JC/MD
Sample : VX0306WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

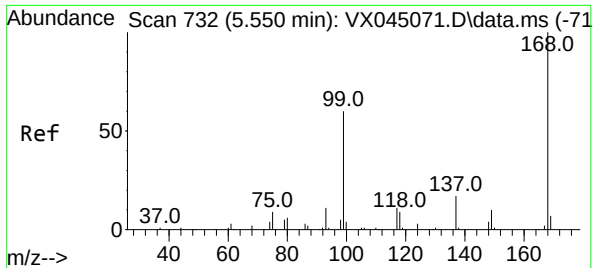
Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
APPROVED

Reviewed By : John Carlone 03/10/2025
Supervised By : Mahesh Dadoda 03/10/2025

Quant Time: Mar 07 00:37:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration





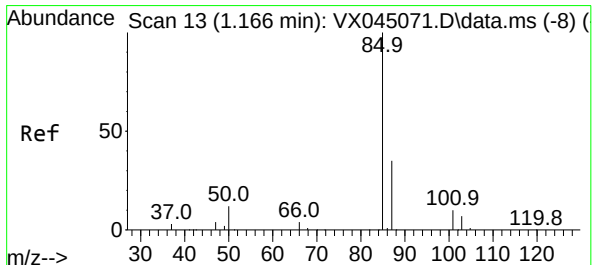
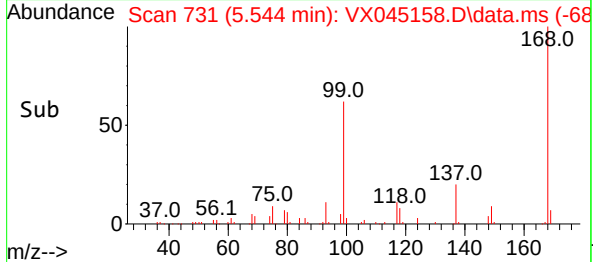
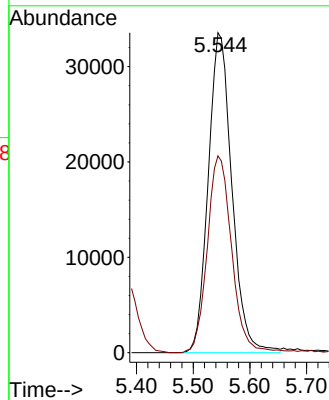
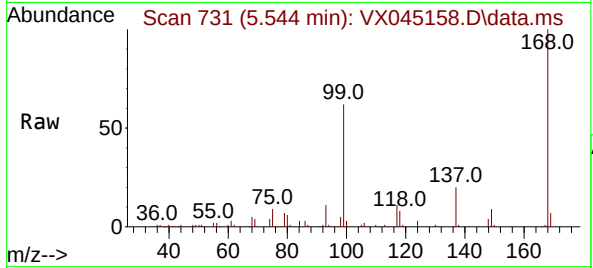
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Tgt Ion:168 Resp: 9710
Ion Ratio Lower Upper
168 100
99 61.5 48.2 72.4

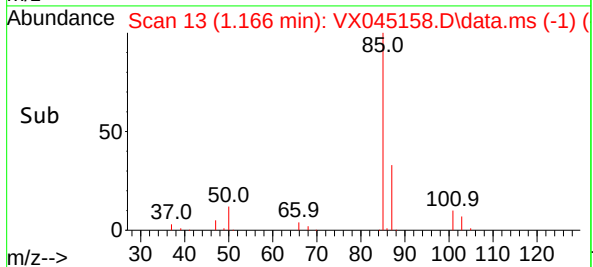
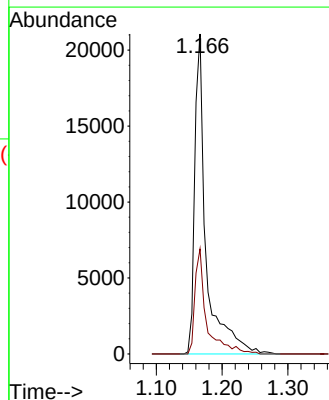
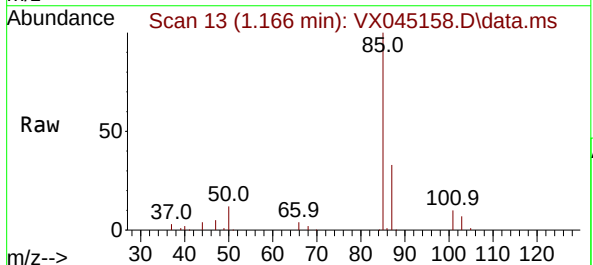
Manual Integrations
APPROVED

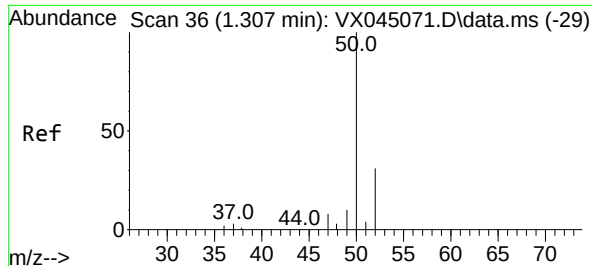
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#2
Dichlorodifluoromethane
Concen: 20.710 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 85 Resp: 25313
Ion Ratio Lower Upper
85 100
87 32.8 17.4 52.3





#3

Chloromethane

Concen: 19.127 ug/l

RT: 1.307 min Scan# 30

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBS01

Tgt Ion: 50 Resp: 28610

Ion Ratio Lower Upper

50 100

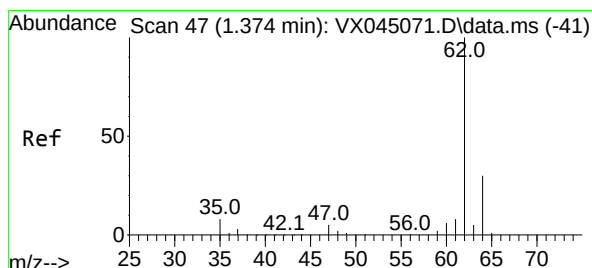
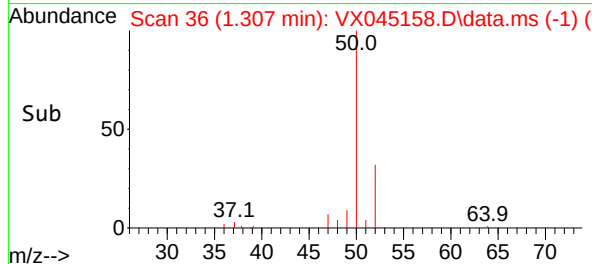
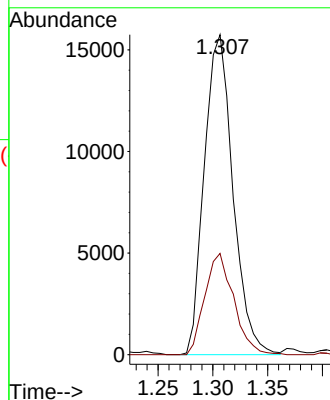
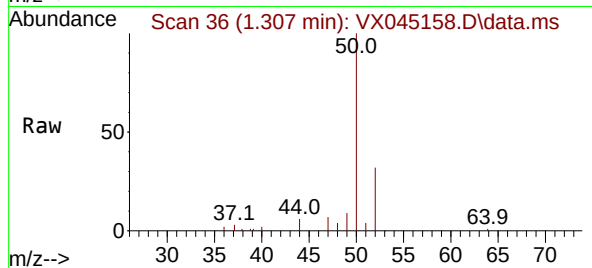
52 31.6 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#4

Vinyl Chloride

Concen: 19.365 ug/l

RT: 1.374 min Scan# 47

Delta R.T. -0.000 min

Lab File: VX045158.D

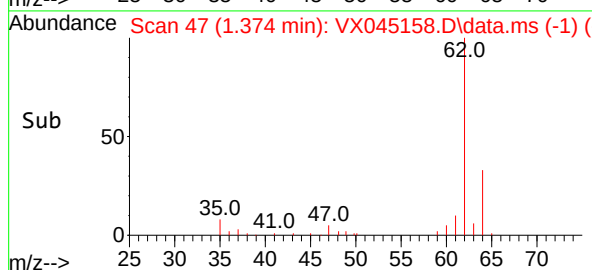
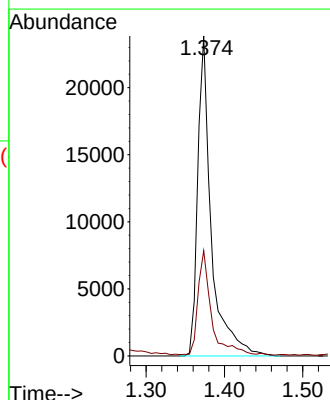
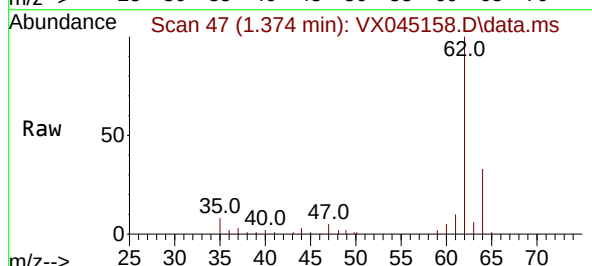
Acq: 06 Mar 2025 11:10

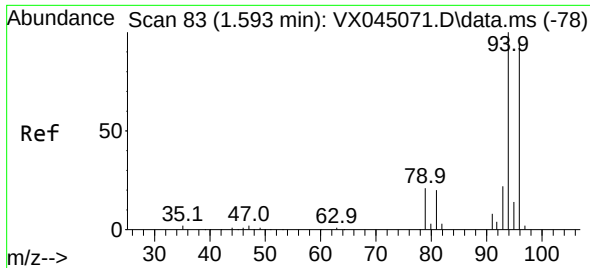
Tgt Ion: 62 Resp: 28735

Ion Ratio Lower Upper

62 100

64 32.4 24.3 36.5





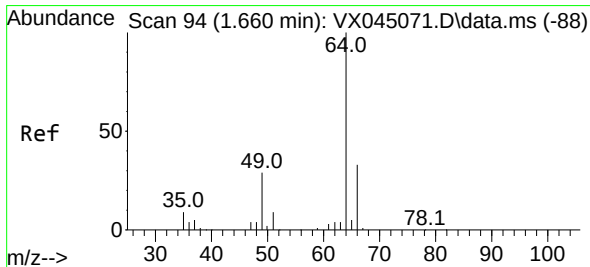
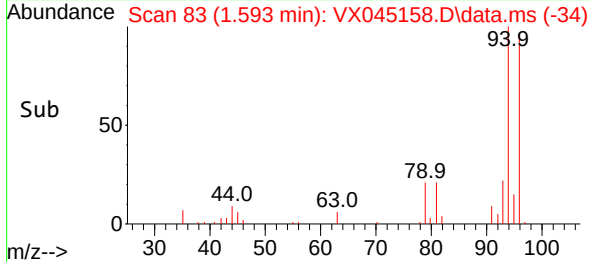
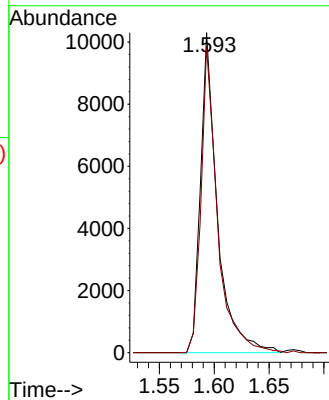
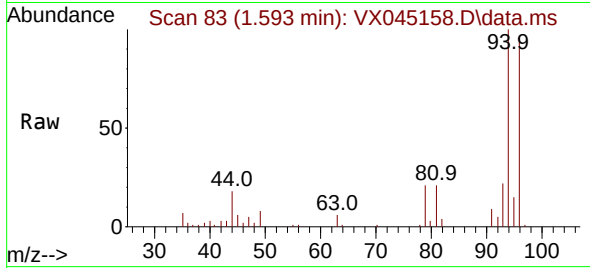
#5
Bromomethane
Concen: 18.945 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Tgt Ion: 94 Resp: 1105
Ion Ratio Lower Upper
94 100
96 95.7 75.0 112.4

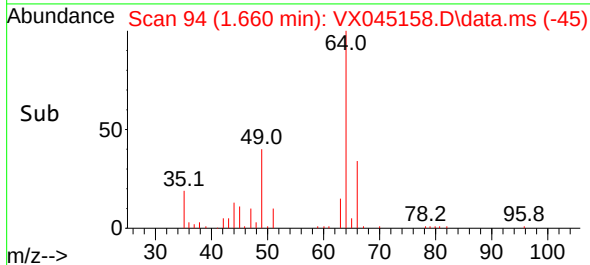
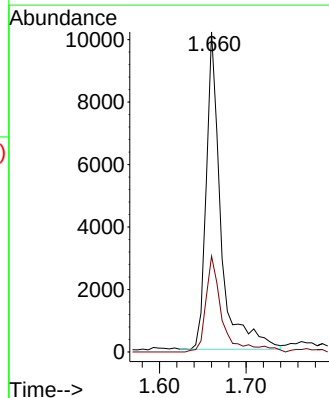
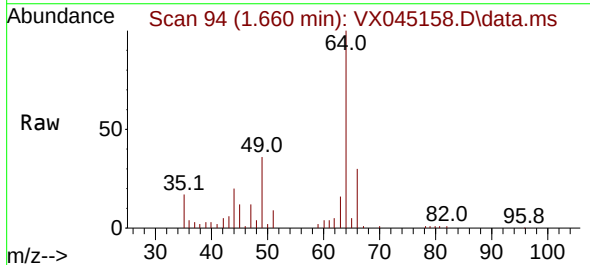
Manual Integrations
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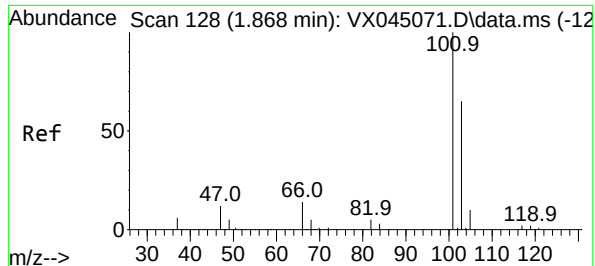
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#6
Chloroethane
Concen: 17.401 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

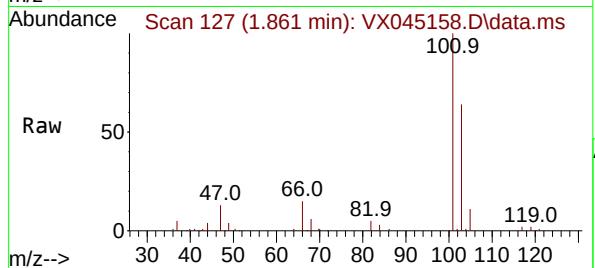
Tgt Ion: 64 Resp: 11910
Ion Ratio Lower Upper
64 100
66 30.2 26.7 40.1





#7
Trichlorofluoromethane
Concen: 21.039 ug/l
RT: 1.861 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

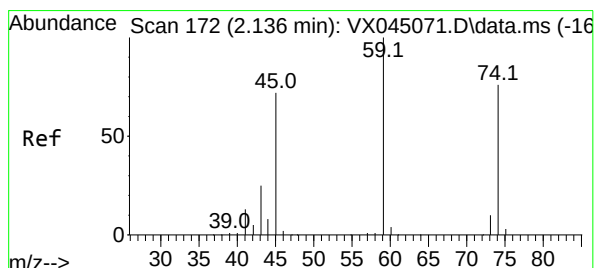
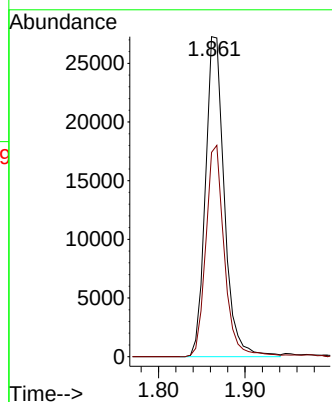
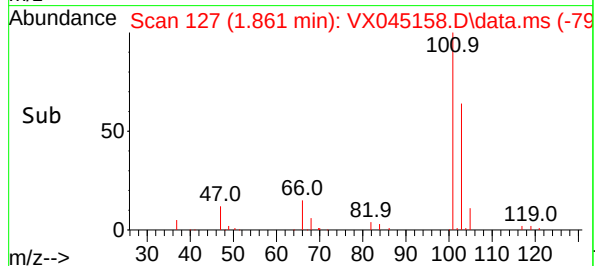
Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01



Tgt Ion:101 Resp: 41329
Ion Ratio Lower Upper
101 100
103 63.8 52.1 78.1

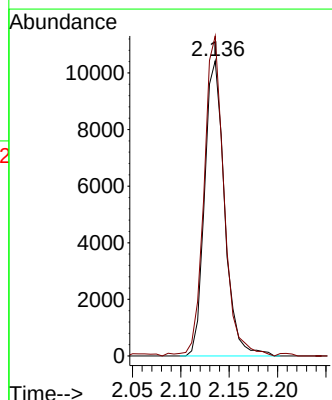
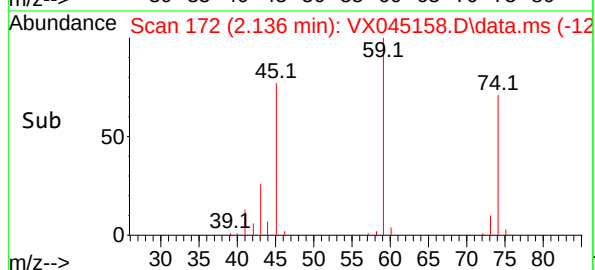
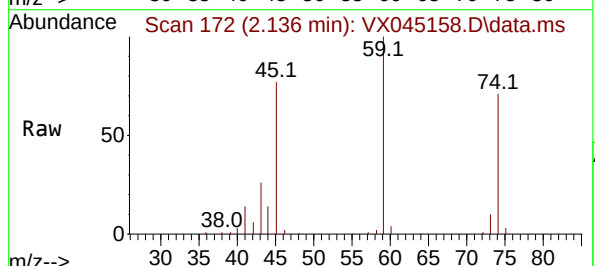
Manual Integrations
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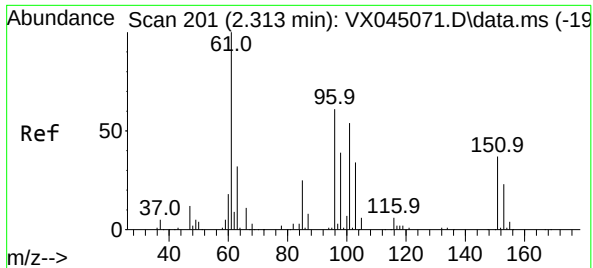
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#8
Diethyl Ether
Concen: 19.563 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 74 Resp: 15031
Ion Ratio Lower Upper
74 100
45 108.5 51.5 154.5





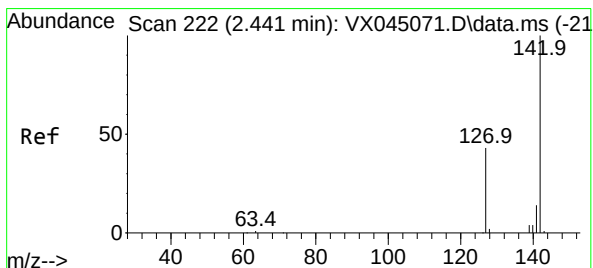
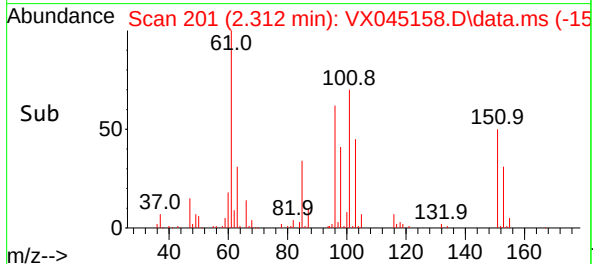
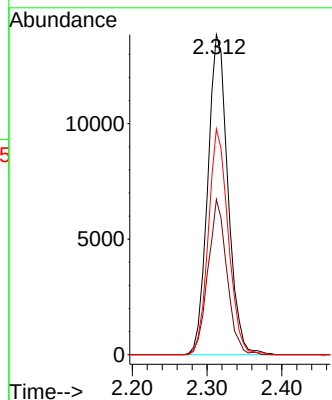
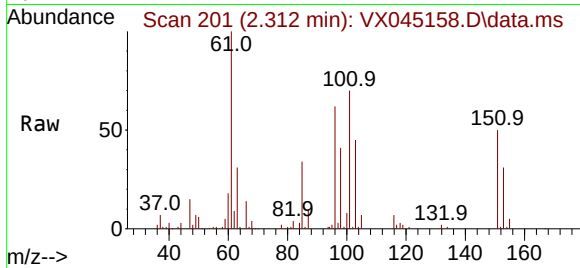
#9
1,1,2-Trichlorotrifluoroethane
Concen: 22.961 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Tgt Ion:101 Resp: 2591
Ion Ratio Lower Upper
101 100
85 45.6 36.2 54.4
151 69.8 56.4 84.6

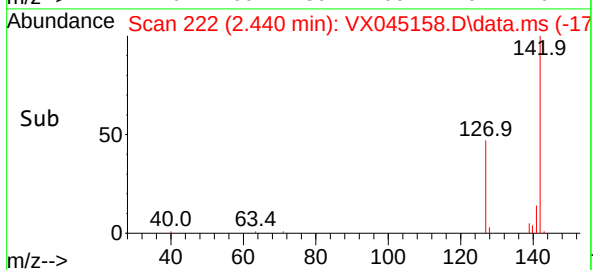
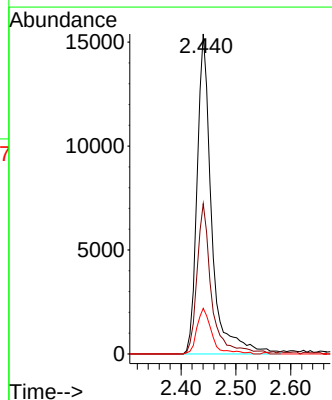
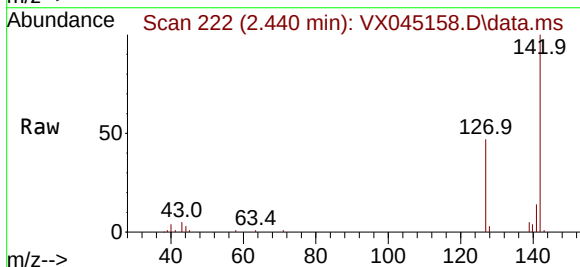
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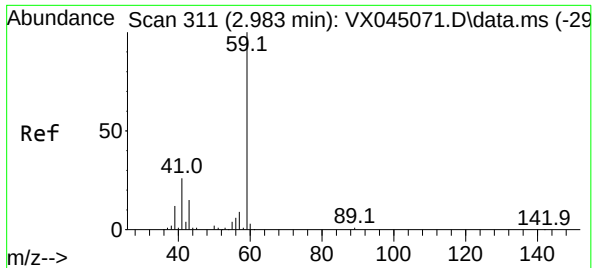
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#10
Methyl Iodide
Concen: 20.232 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:142 Resp: 28535
Ion Ratio Lower Upper
142 100
127 46.5 35.4 53.2
141 14.5 11.6 17.4





#11

Tert butyl alcohol

Concen: 85.035 ug/l

RT: 2.995 min Scan# 311

Delta R.T. 0.012 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBS01

Tgt Ion: 59 Resp: 24878

Ion Ratio Lower Upper

59 100

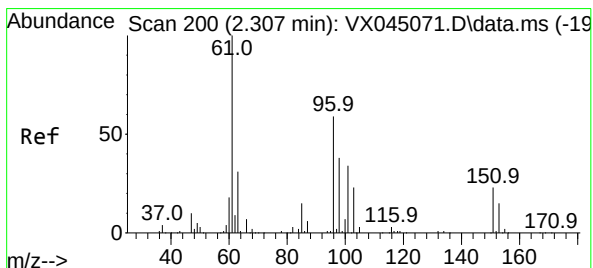
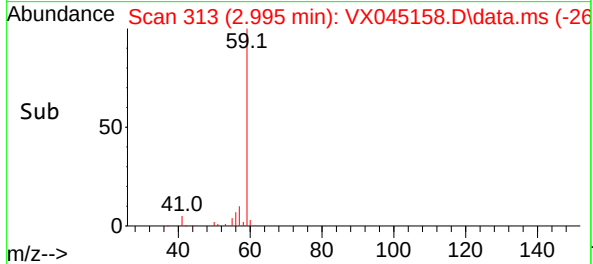
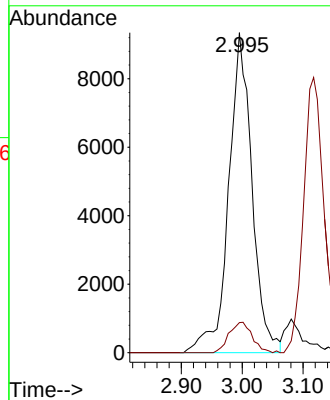
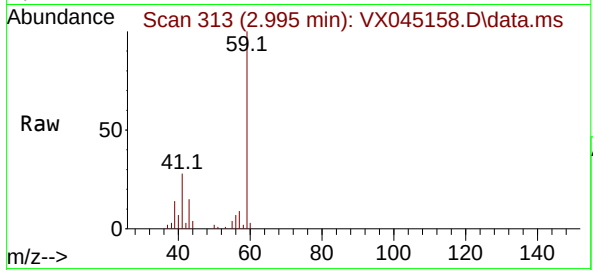
57 9.5 7.8 11.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#12

1,1-Dichloroethene

Concen: 21.319 ug/l

RT: 2.306 min Scan# 200

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

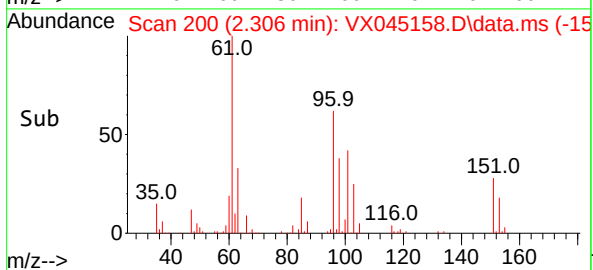
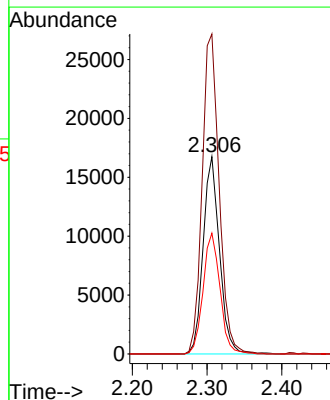
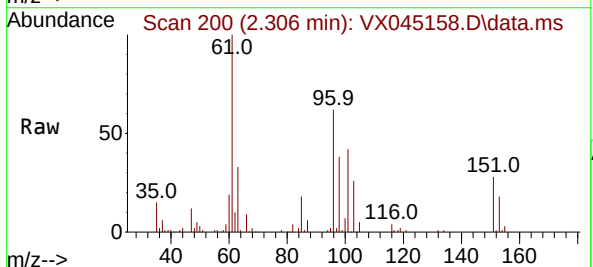
Tgt Ion: 96 Resp: 25437

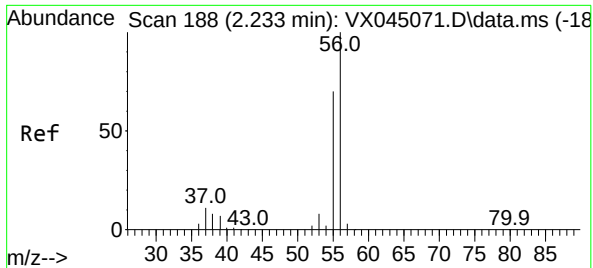
Ion Ratio Lower Upper

96 100

61 162.3 134.6 202.0

98 61.3 51.0 76.6





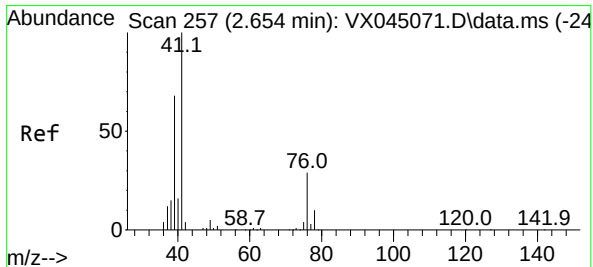
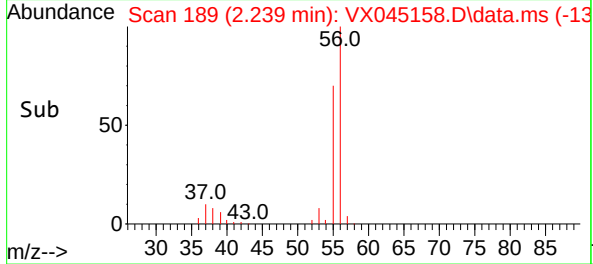
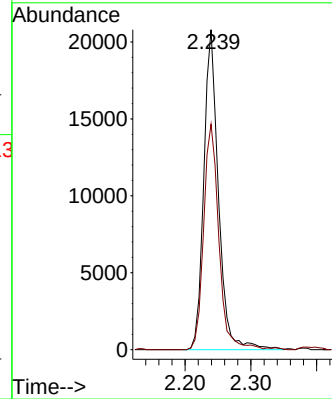
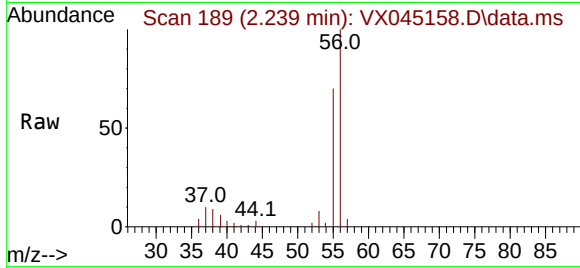
#13
Acrolein
Concen: 95.330 ug/l
RT: 2.239 min Scan# 188
Delta R.T. 0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Tgt Ion: 56 Resp: 32240
Ion Ratio Lower Upper
56 100
55 72.9 56.2 84.4

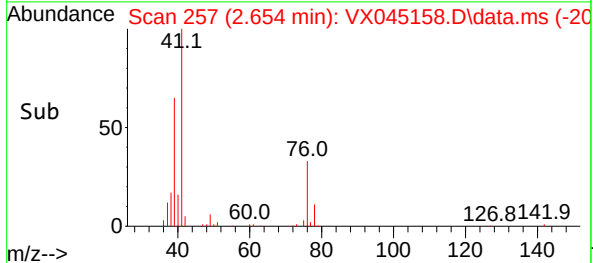
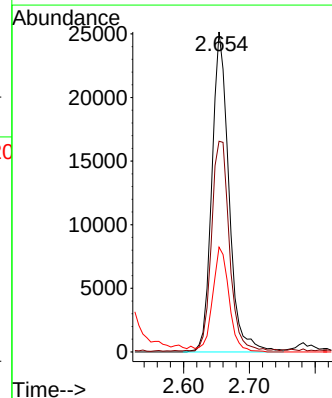
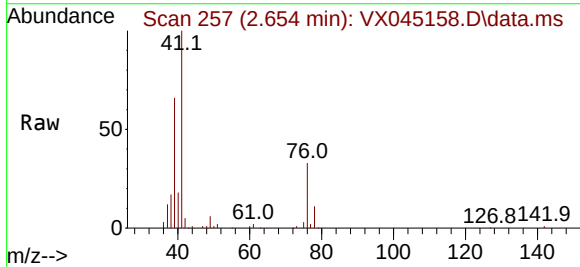
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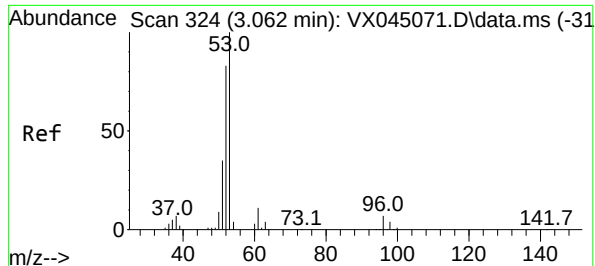
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#14
Allyl chloride
Concen: 21.406 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 41 Resp: 45464
Ion Ratio Lower Upper
41 100
39 68.7 53.8 80.8
76 31.5 25.2 37.8





#15

Acrylonitrile

Concen: 102.818 ug/l

RT: 3.068 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBS01

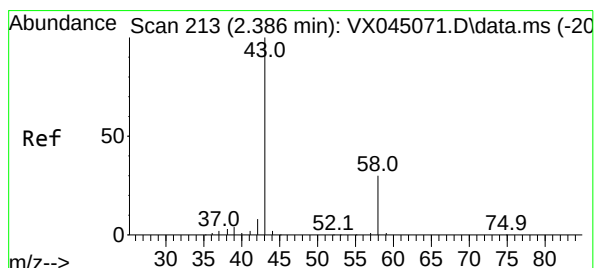
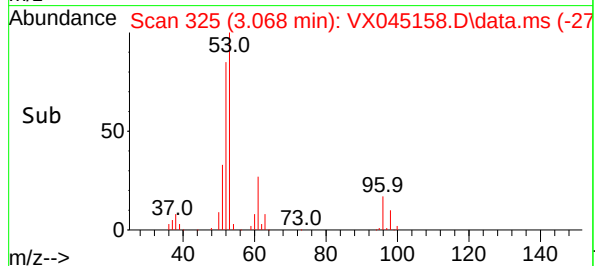
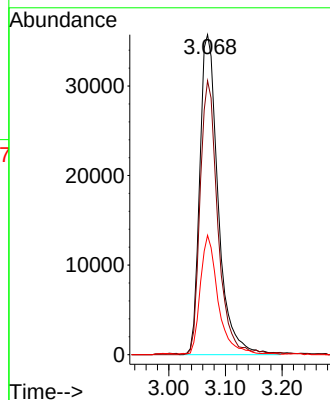
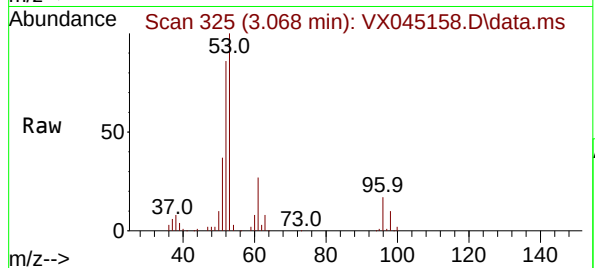
Tgt Ion: 53	Resp: 80620
Ion Ratio	Lower Upper
53 100	
52 83.0	66.2 99.2
51 35.7	29.0 43.4

Manual Integrations

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Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#16

Acetone

Concen: 98.177 ug/l

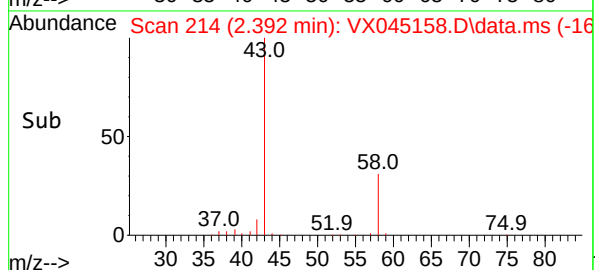
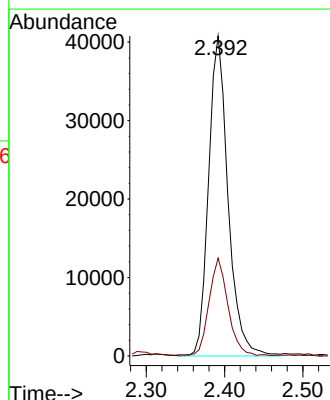
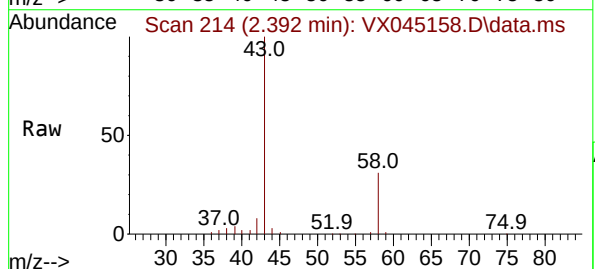
RT: 2.392 min Scan# 214

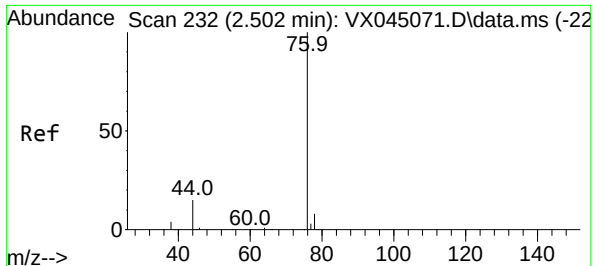
Delta R.T. 0.006 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Tgt Ion: 43	Resp: 70356
Ion Ratio	Lower Upper
43 100	
58 30.3	24.2 36.4





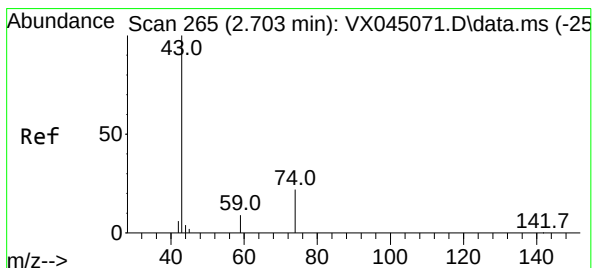
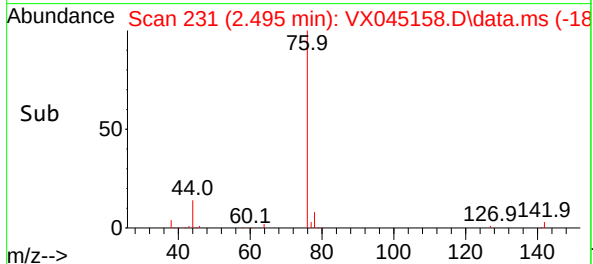
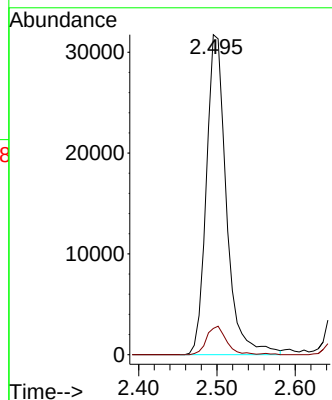
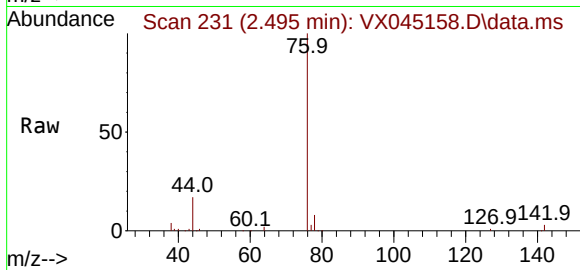
#17
Carbon Disulfide
Concen: 17.758 ug/l
RT: 2.495 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Tgt Ion: 76 Resp: 56434
Ion Ratio Lower Upper
76 100
78 8.2 6.6 9.8

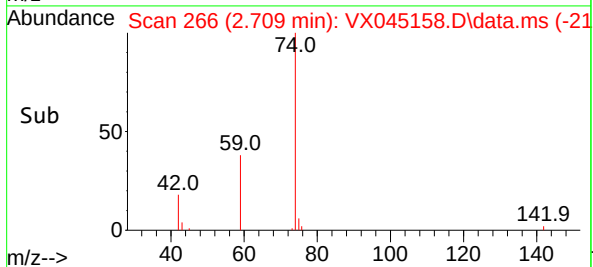
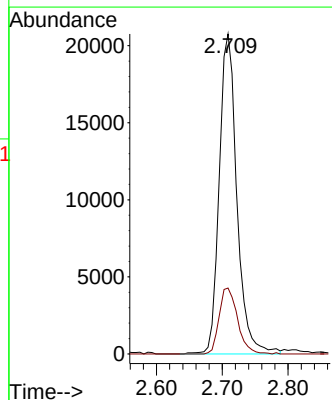
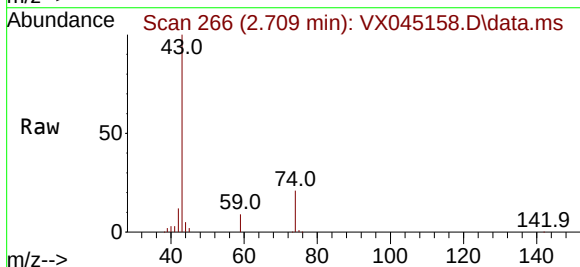
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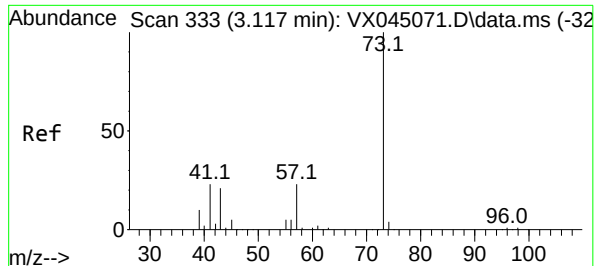
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#18
Methyl Acetate
Concen: 22.500 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 43 Resp: 38789
Ion Ratio Lower Upper
43 100
74 21.5 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 20.741 ug/l

RT: 3.117 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBS01

Tgt Ion: 73 Resp: 8302

Ion Ratio Lower Upper

73 100

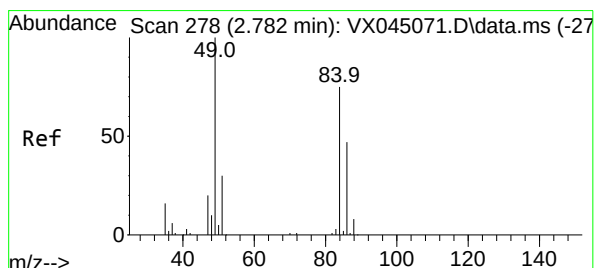
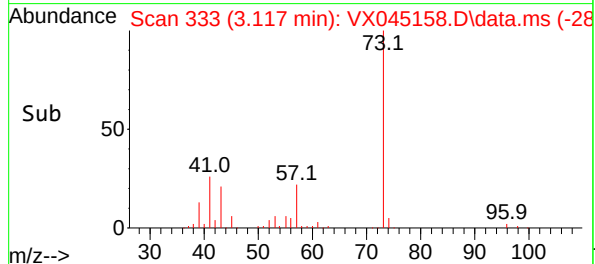
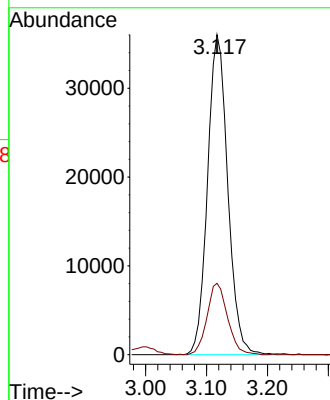
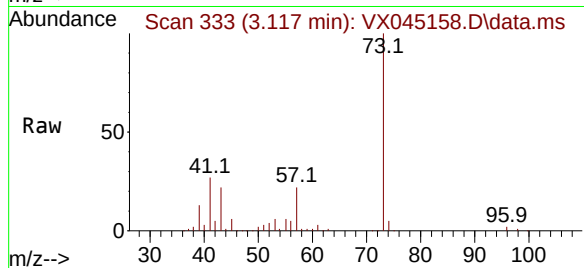
57 22.3 18.5 27.7

Manual Integrations

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Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#20

Methylene Chloride

Concen: 20.086 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Tgt Ion: 84 Resp: 28513

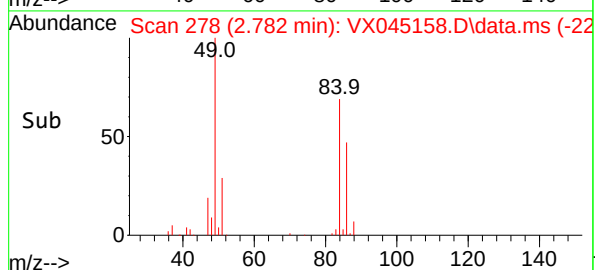
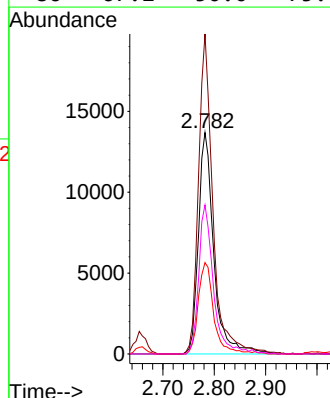
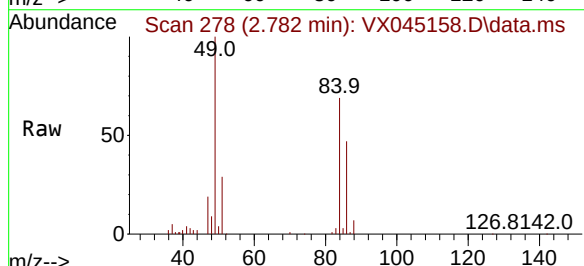
Ion Ratio Lower Upper

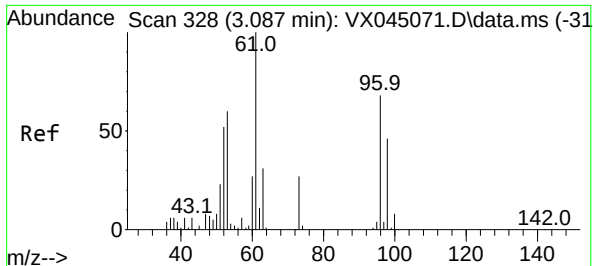
84 100

49 144.5 106.5 159.7

51 41.2 32.1 48.1

86 67.2 50.0 75.0





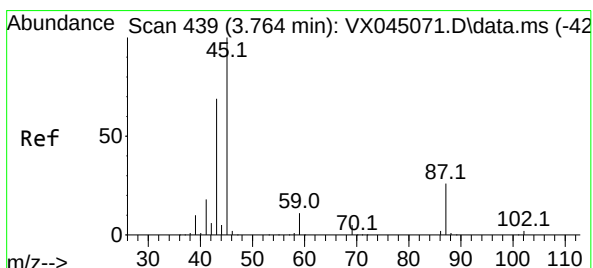
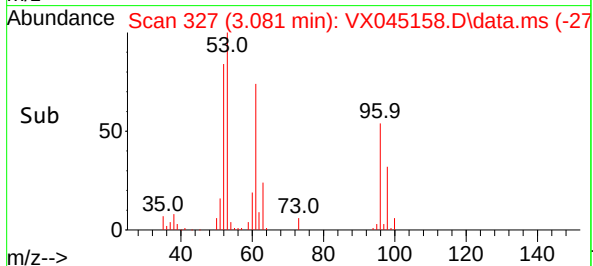
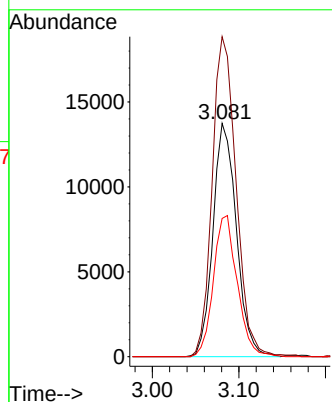
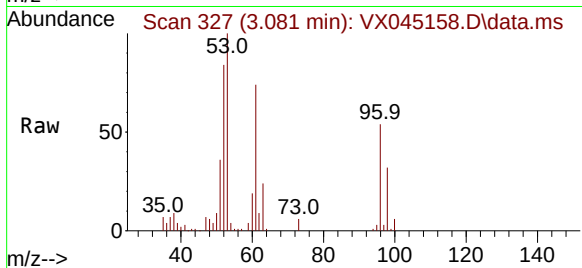
#21
trans-1,2-Dichloroethene
Concen: 21.957 ug/l
RT: 3.081 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Tgt Ion: 96 Resp: 2588
Ion Ratio Lower Upper
96 100
61 137.2 117.0 175.4
98 59.2 53.4 80.2

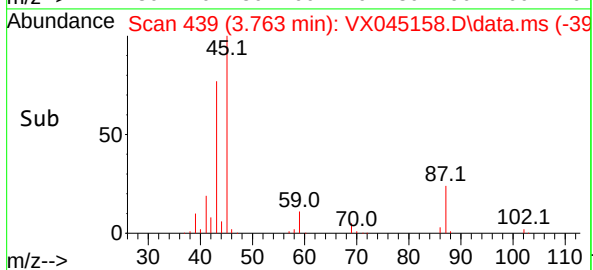
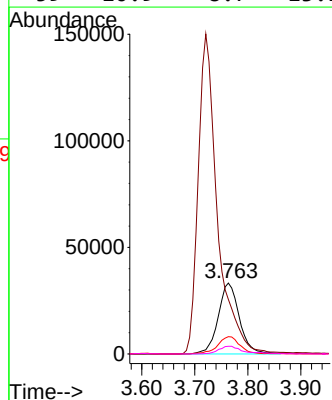
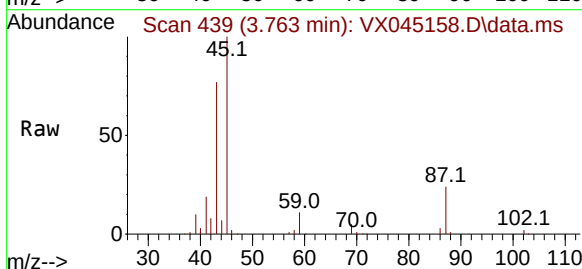
Manual Integrations
APPROVED

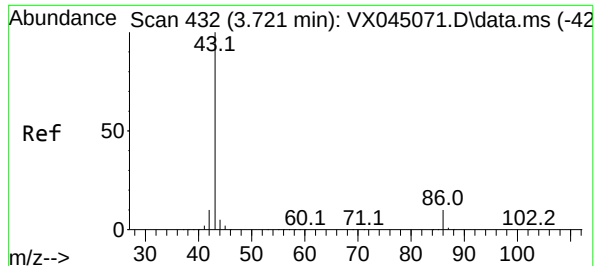
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#22
Diisopropyl ether
Concen: 21.360 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 45 Resp: 92263
Ion Ratio Lower Upper
45 100
43 77.1 54.9 82.3
87 24.5 21.0 31.4
59 10.9 8.7 13.1





#23

Vinyl Acetate

Concen: 105.258 ug/l

RT: 3.721 min Scan# 41

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBS01

Tgt Ion: 43 Resp: 37942

Ion Ratio Lower Upper

43 100

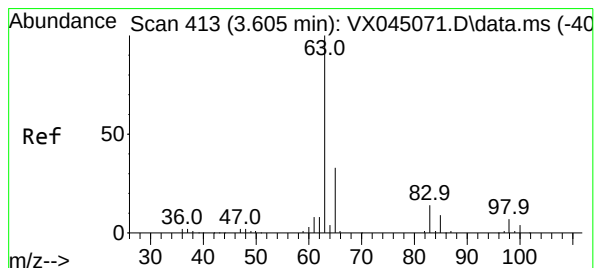
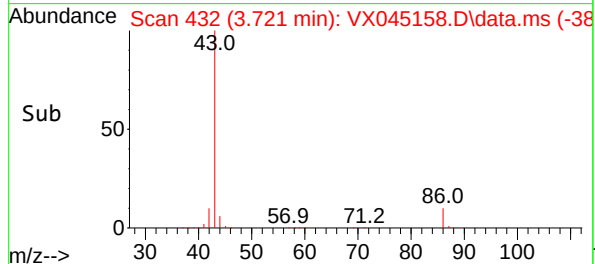
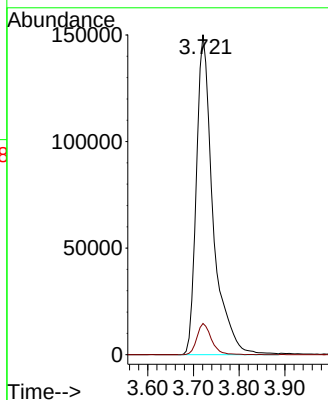
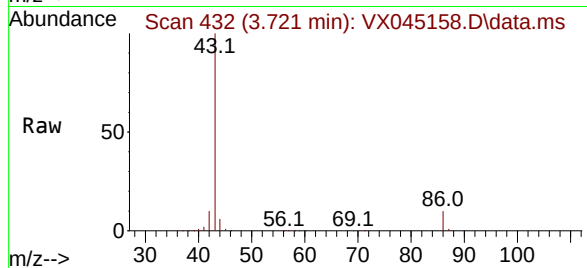
86 9.8 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#24

1,1-Dichloroethane

Concen: 20.975 ug/l

RT: 3.605 min Scan# 413

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

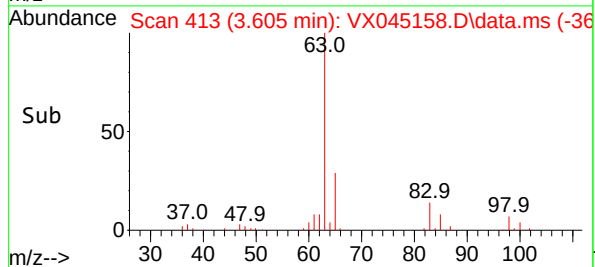
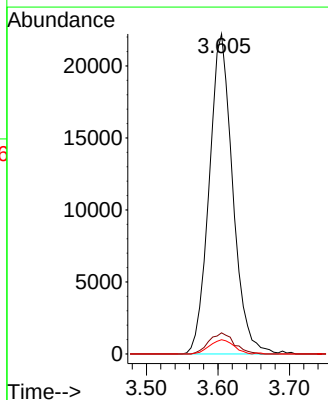
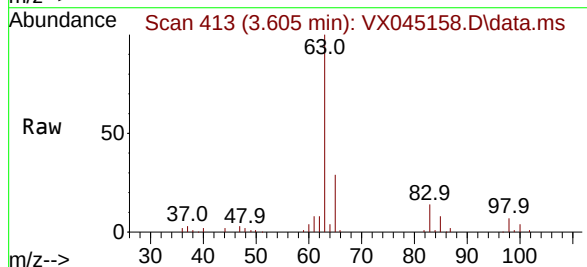
Tgt Ion: 63 Resp: 50777

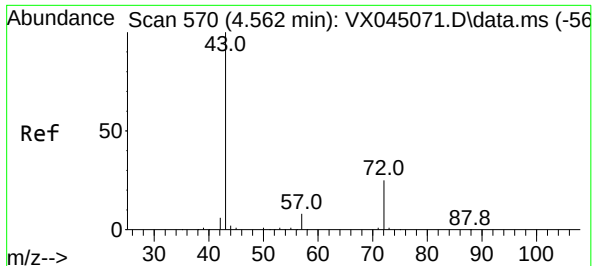
Ion Ratio Lower Upper

63 100

98 6.6 3.4 10.2

100 4.5 2.1 6.5





#25

2-Butanone

Concen: 103.935 ug/l

RT: 4.568 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBS01

Tgt Ion: 43 Resp: 112114

Ion Ratio Lower Upper

43

100

72

24.8

20.0

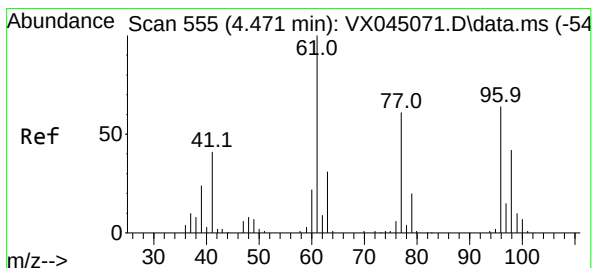
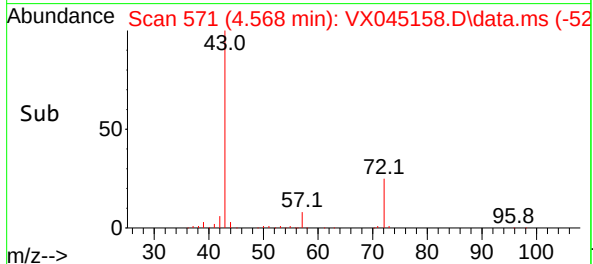
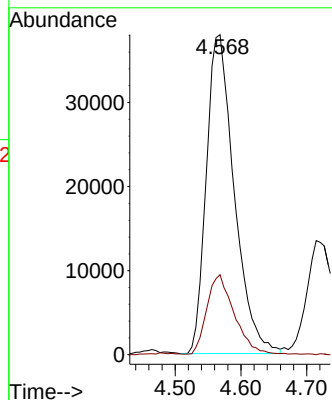
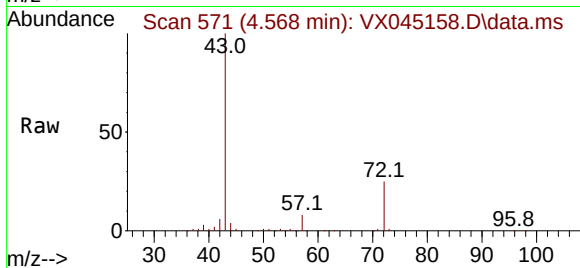
30.0

Manual Integrations

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Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#26

2,2-Dichloropropane

Concen: 27.861 ug/l

RT: 4.464 min Scan# 554

Delta R.T. -0.006 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Tgt Ion: 77 Resp: 31636

Ion Ratio Lower Upper

77

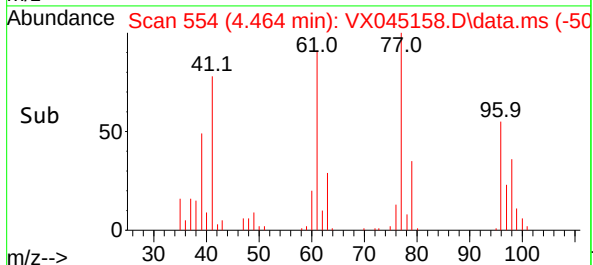
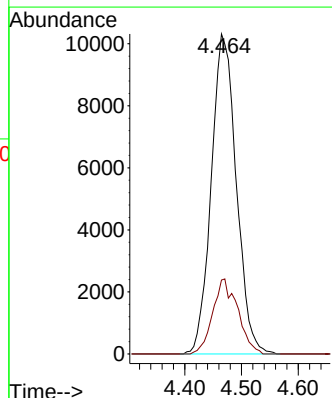
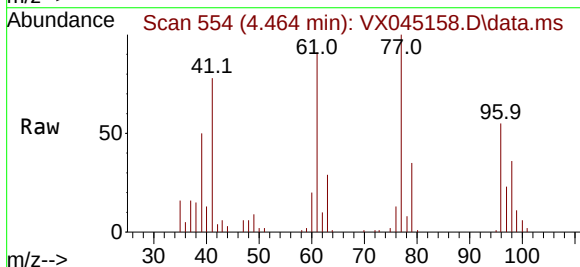
100

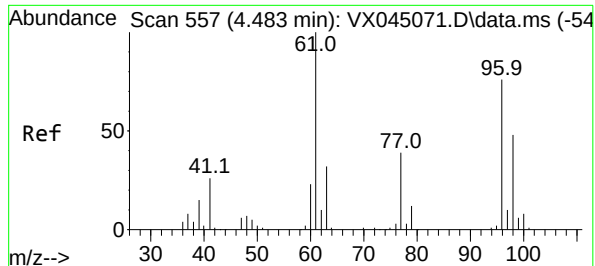
97

23.5

12.4

37.0





#27

cis-1,2-Dichloroethene

Concen: 21.161 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBS01

Tgt Ion: 96 Resp: 3079

Ion Ratio Lower Upper

96 100

61 149.9 0.0 283.2

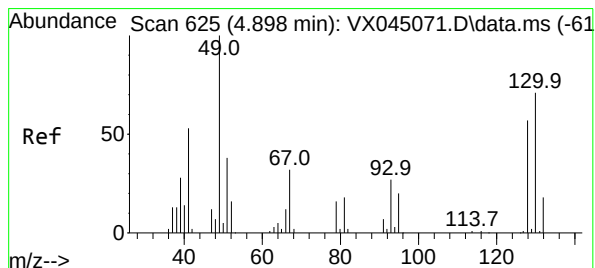
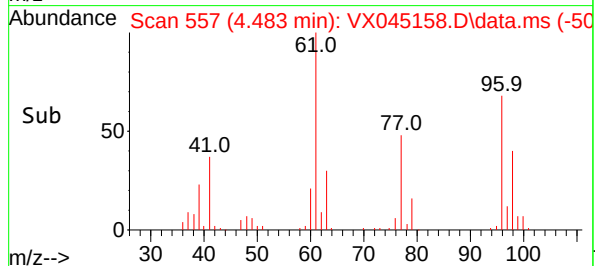
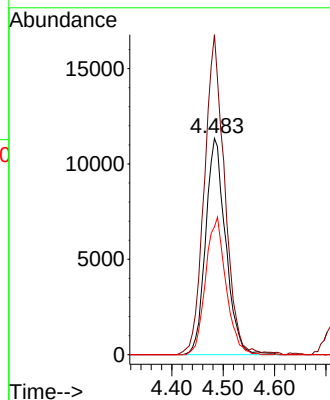
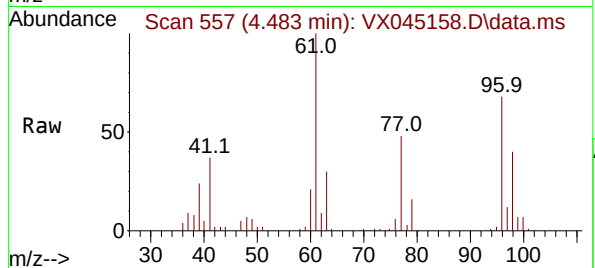
98 64.3 0.0 128.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#28

Bromochloromethane

Concen: 18.145 ug/l

RT: 4.897 min Scan# 625

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

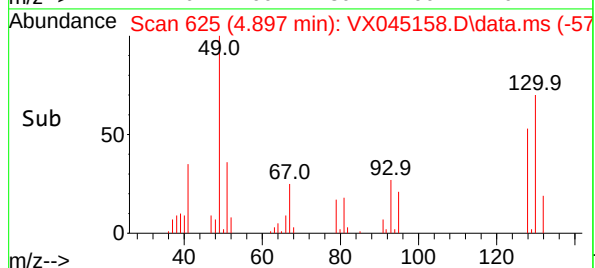
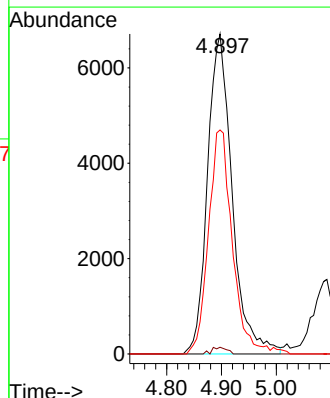
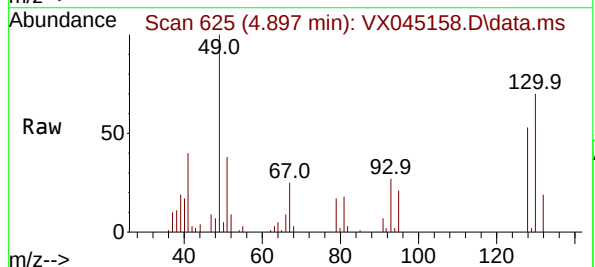
Tgt Ion: 49 Resp: 20937

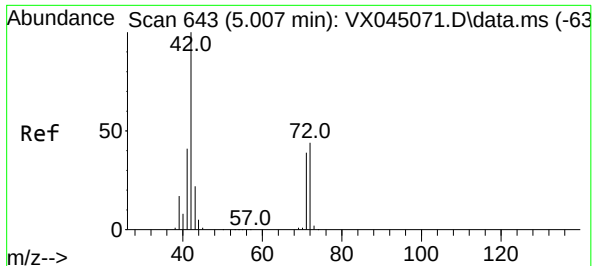
Ion Ratio Lower Upper

49 100

129 1.3 0.0 3.4

130 68.1 56.1 84.1





#29

Tetrahydrofuran

Concen: 100.185 ug/l

RT: 5.007 min Scan# 643

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBS01

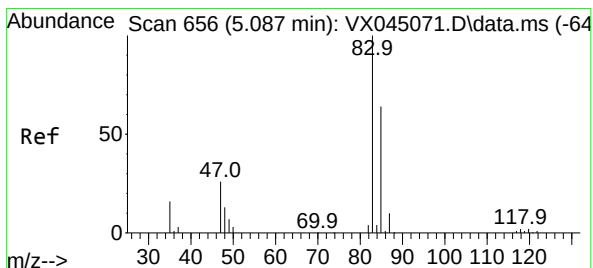
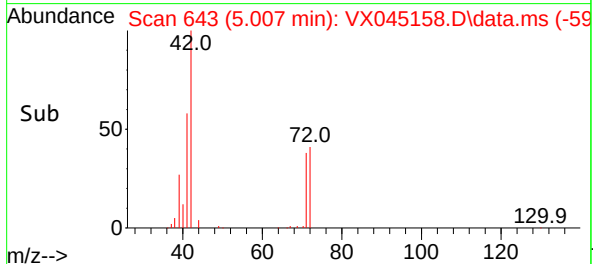
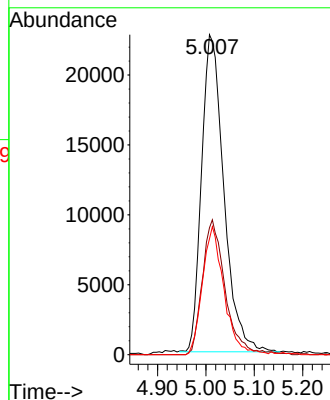
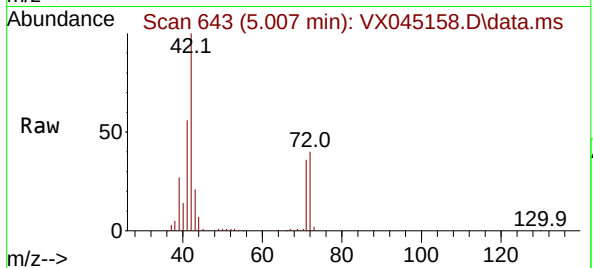
Tgt Ion:	42	Resp:	72574
Ion	Ratio	Lower	Upper
42	100		
72	43.6	34.1	51.1
71	39.1	31.4	47.0

Manual Integrations

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Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#30

Chloroform

Concen: 21.186 ug/l

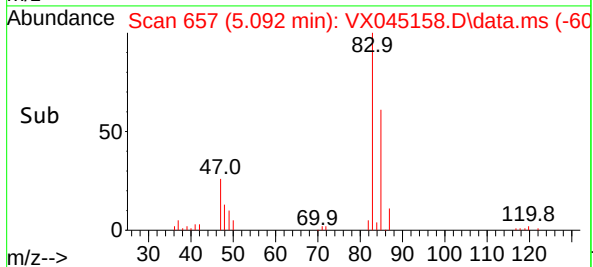
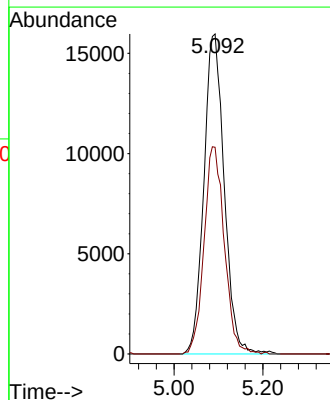
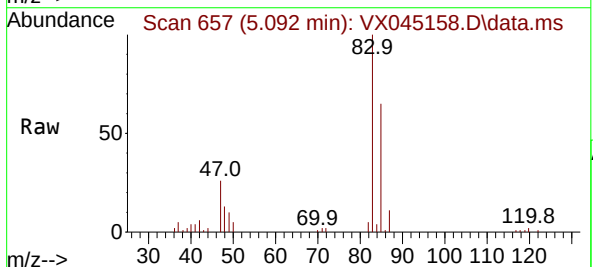
RT: 5.092 min Scan# 657

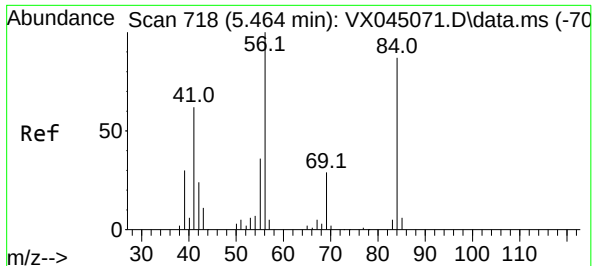
Delta R.T. 0.006 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Tgt Ion:	83	Resp:	50960
Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.4	77.2





#31

Cyclohexane

Concen: 22.128 ug/l

RT: 5.458 min Scan# 718

Delta R.T. -0.006 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBS01

Tgt Ion: 56 Resp: 46499

Ion Ratio Lower Upper

56 100

69 27.1 23.4 35.2

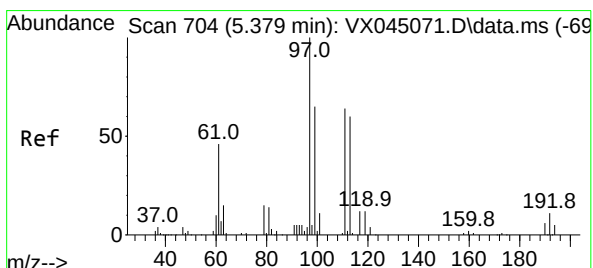
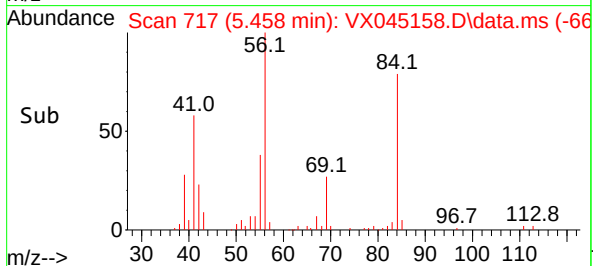
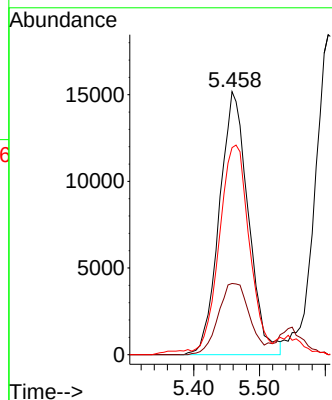
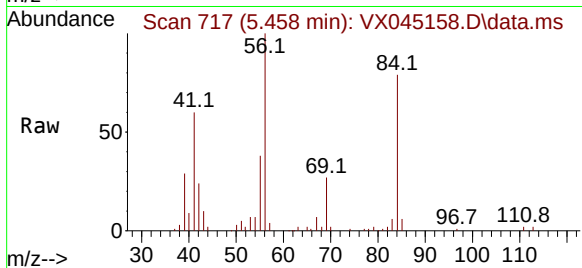
84 77.2 69.4 104.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#32

1,1,1-Trichloroethane

Concen: 21.059 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

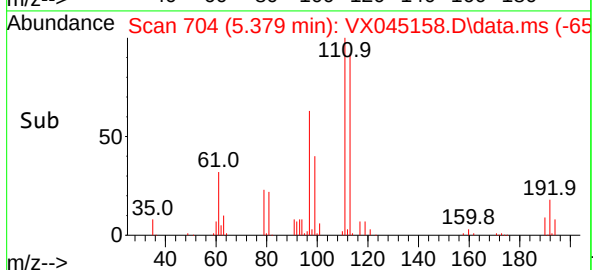
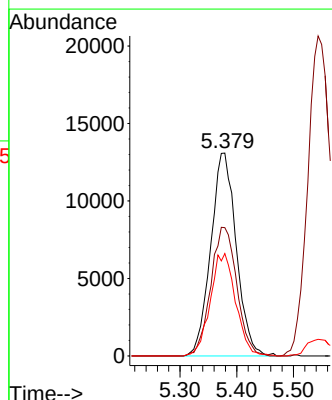
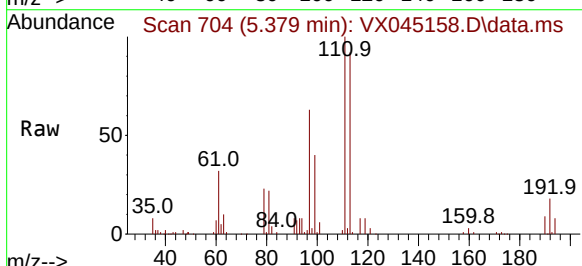
Tgt Ion: 97 Resp: 40911

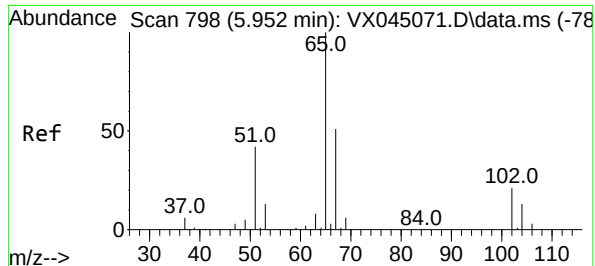
Ion Ratio Lower Upper

97 100

99 64.7 51.6 77.4

61 50.3 38.4 57.6





#33

1,2-Dichloroethane-d4

Concen: 50.187 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBS01

Tgt Ion: 65 Resp: 7751

Ion Ratio Lower Upper

65 100

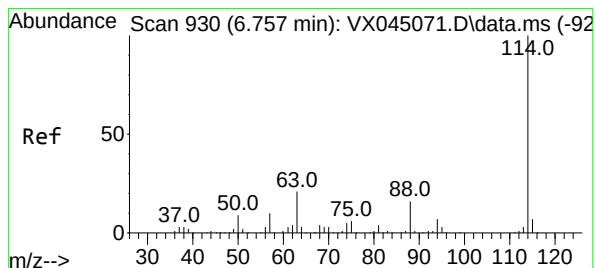
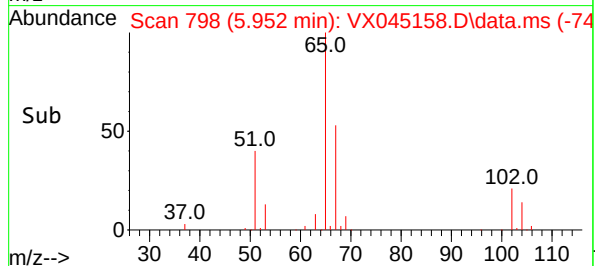
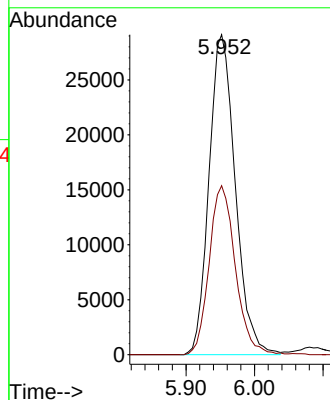
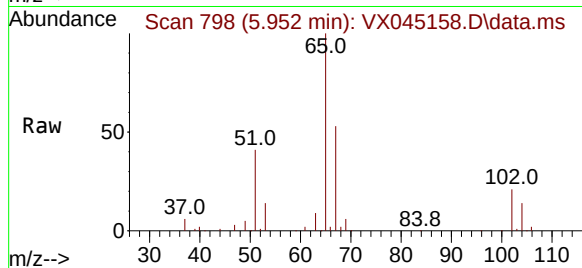
67 52.6 0.0 106.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

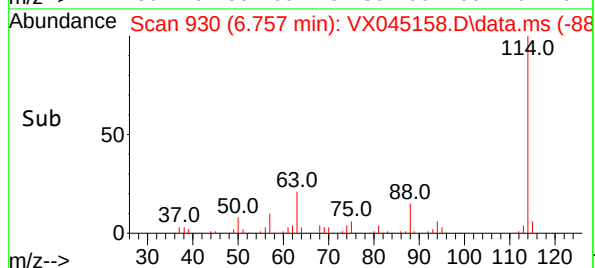
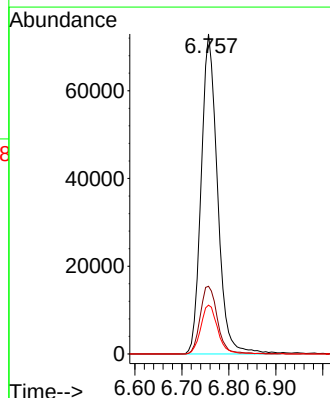
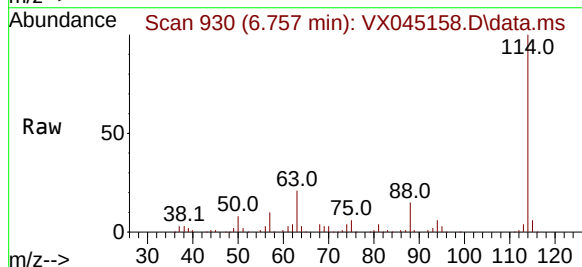
Tgt Ion:114 Resp: 175752

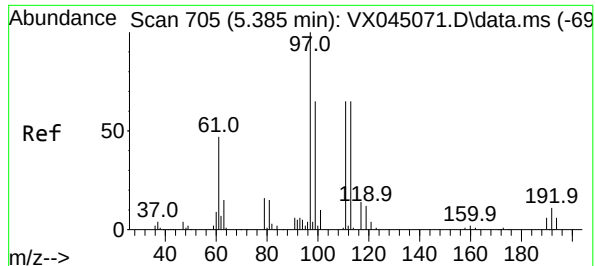
Ion Ratio Lower Upper

114 100

63 21.1 0.0 41.8

88 15.2 0.0 32.8





#35

Dibromofluoromethane

Concen: 50.846 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBS01

Tgt Ion:113 Resp: 5975

Ion Ratio Lower Upper

113 100

111 103.3 81.8 122.6

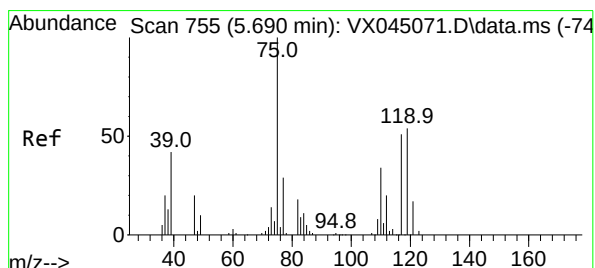
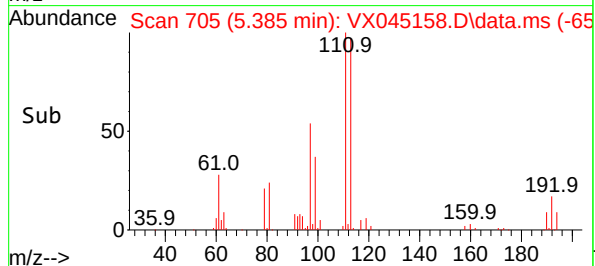
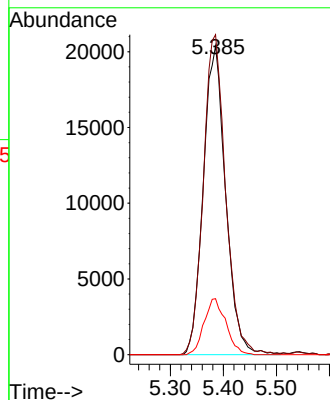
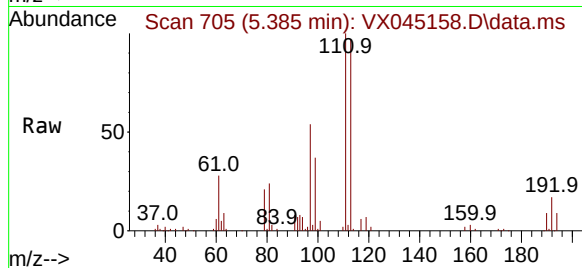
192 17.7 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#36

1,1-Dichloropropene

Concen: 21.370 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

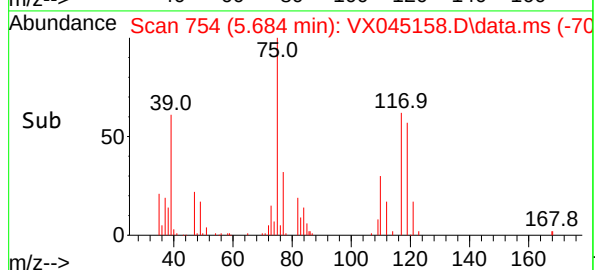
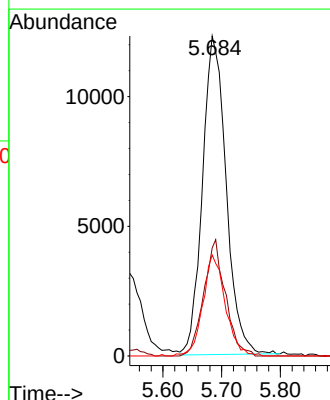
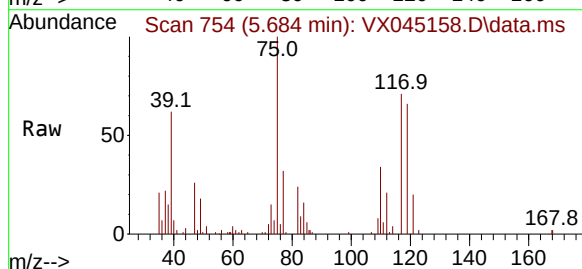
Tgt Ion: 75 Resp: 34442

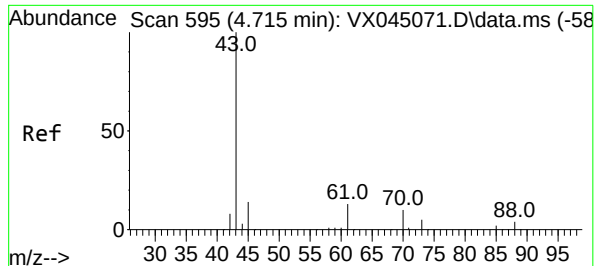
Ion Ratio Lower Upper

75 100

110 33.3 16.9 50.6

77 30.0 24.5 36.7





#37

Ethyl Acetate

Concen: 19.942 ug/l

RT: 4.714 min Scan# 595

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBS01

Tgt Ion: 43 Resp: 4141

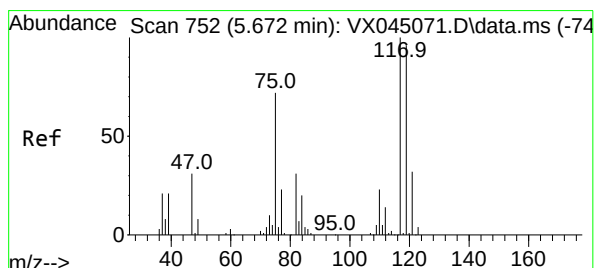
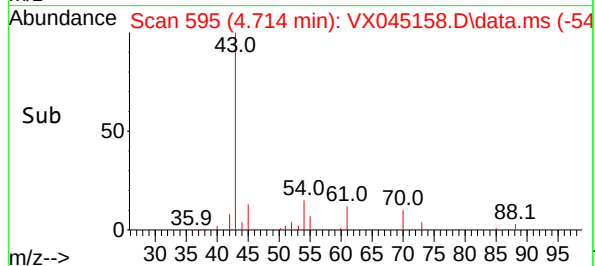
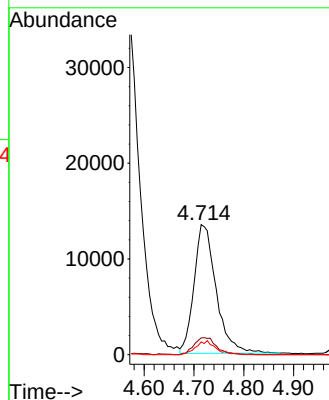
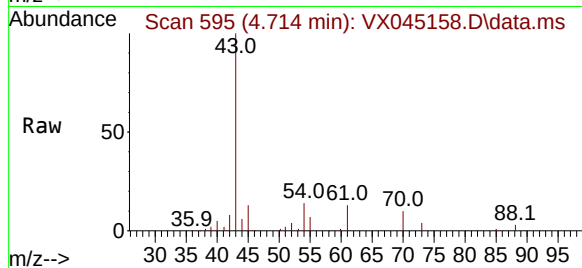
Ion	Ratio	Lower	Upper
43	100		
61	13.4	10.8	16.2
70	9.7	7.7	11.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#38

Carbon Tetrachloride

Concen: 20.492 ug/l

RT: 5.672 min Scan# 752

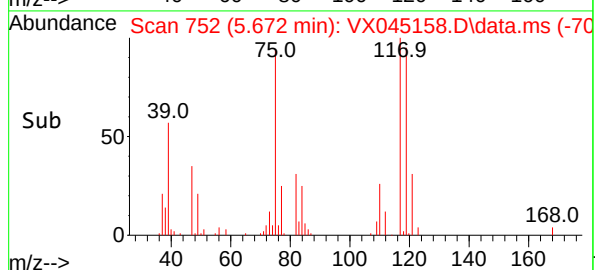
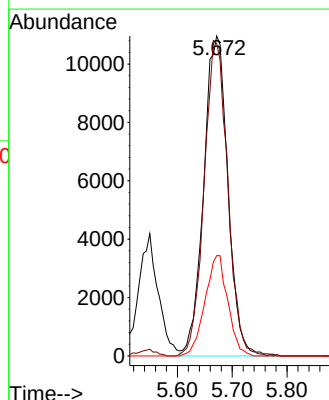
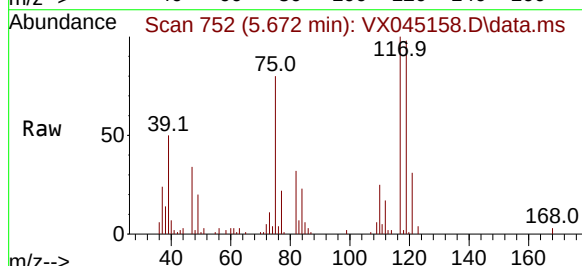
Delta R.T. -0.000 min

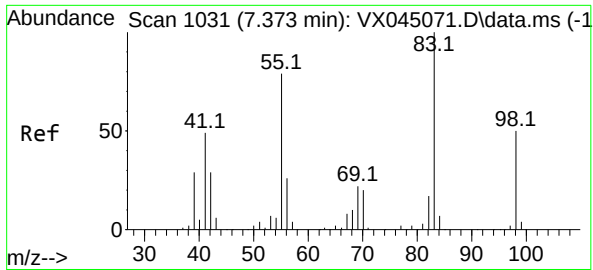
Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Tgt Ion: 117 Resp: 33530

Ion	Ratio	Lower	Upper
117	100		
119	97.6	76.7	115.1
121	31.4	25.5	38.3





#39

Methylcyclohexane

Concen: 22.900 ug/l

RT: 7.372 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBS01

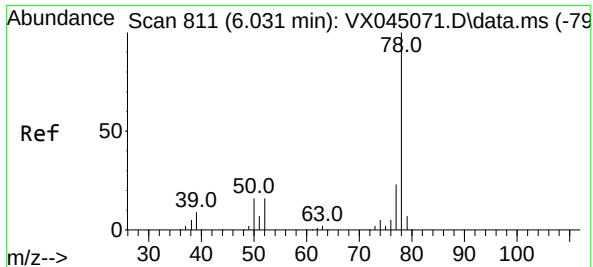
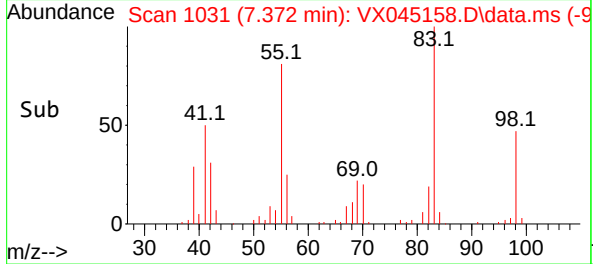
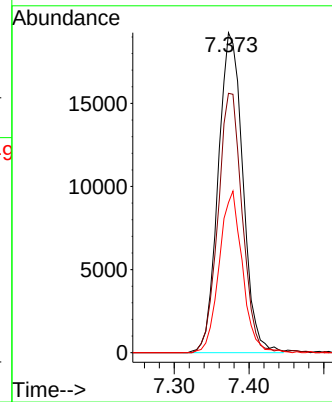
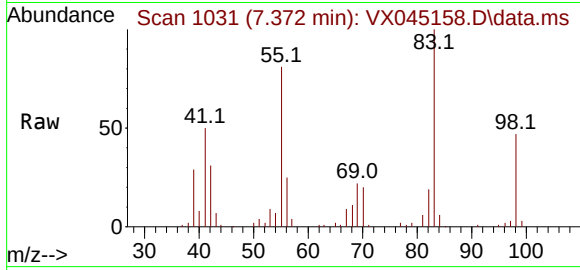
Tgt Ion: 83	Resp: 44224
Ion Ratio	Lower Upper
83	100
55	81.1 63.0 94.4
98	46.9 39.7 59.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#40

Benzene

Concen: 21.516 ug/l

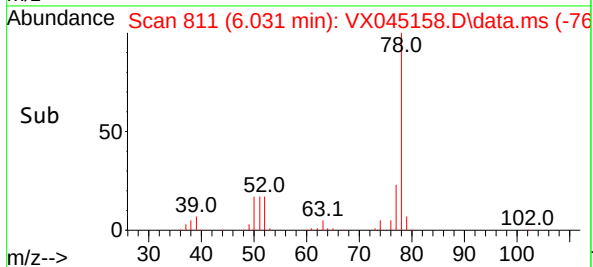
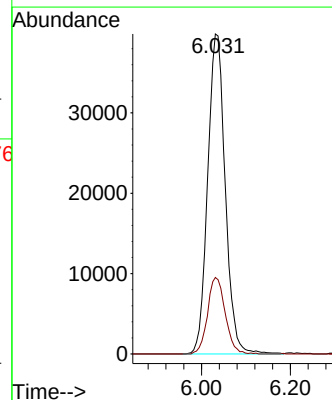
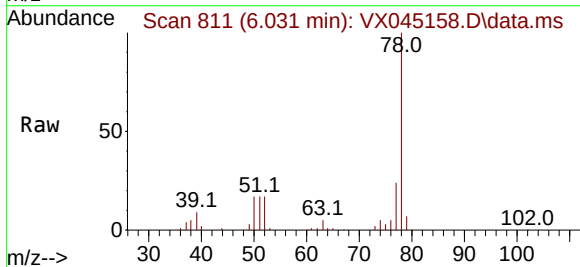
RT: 6.031 min Scan# 811

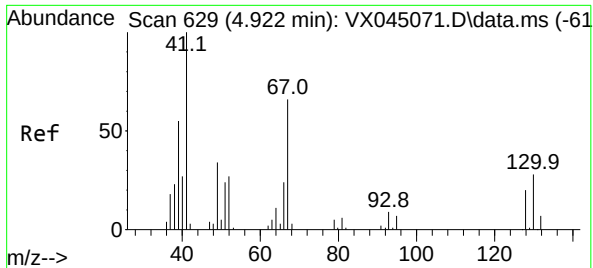
Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

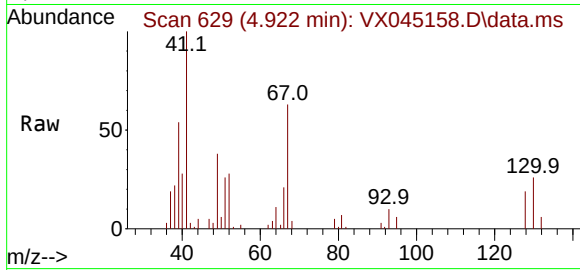
Tgt Ion: 78	Resp: 109500
Ion Ratio	Lower Upper
78	100
77	23.9 18.8 28.2





#41
Methacrylonitrile
Concen: 20.769 ug/l
RT: 4.922 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

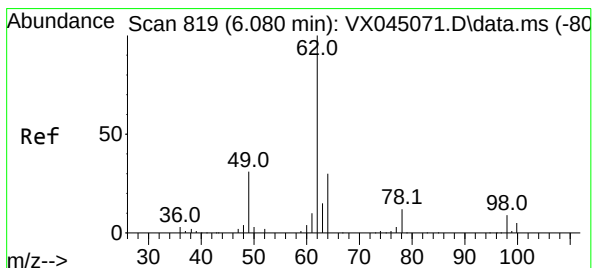
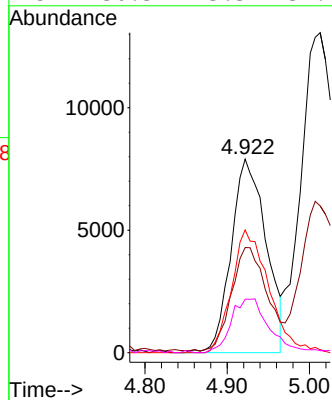
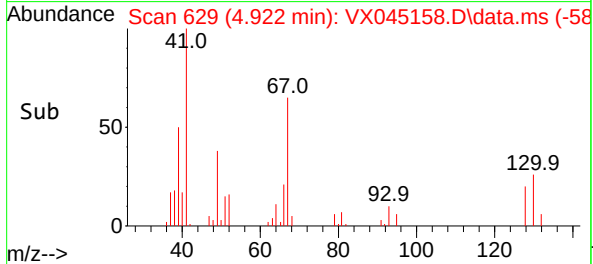
Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01



Tgt Ion: 41 Resp: 2332
Ion Ratio Lower Upper
41 100
39 55.4 44.6 67.0
67 67.5 53.9 80.9
52 30.3 23.3 34.9

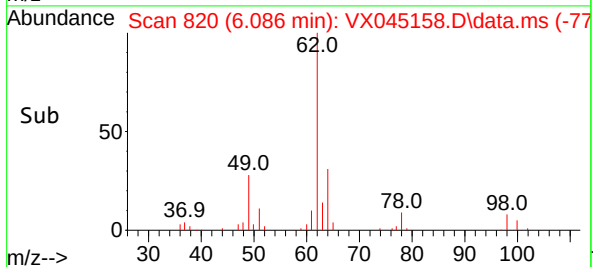
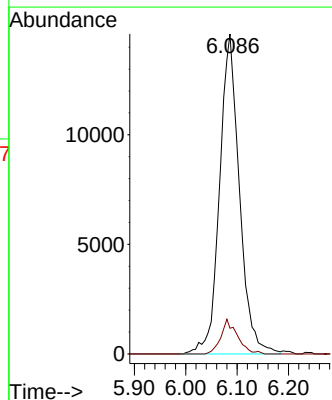
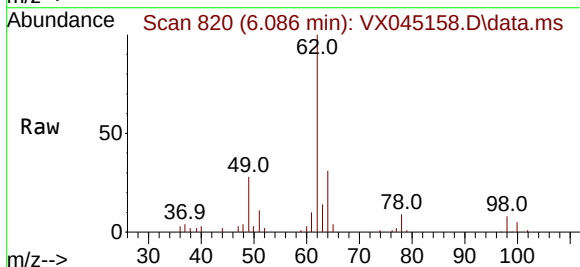
Manual Integrations
APPROVED

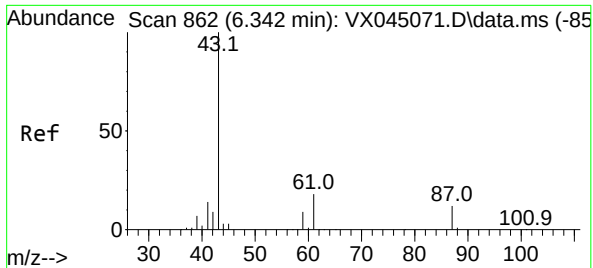
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#42
1,2-Dichloroethane
Concen: 21.397 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

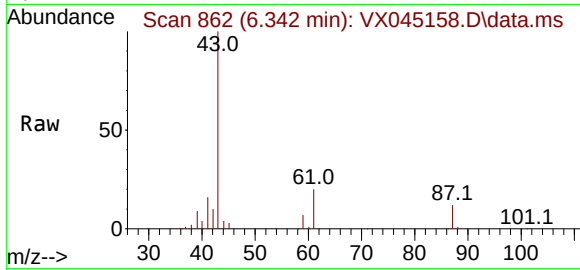
Tgt Ion: 62 Resp: 39213
Ion Ratio Lower Upper
62 100
98 9.0 0.0 18.2





#43
Isopropyl Acetate
Concen: 20.220 ug/l
RT: 6.342 min Scan# 862
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

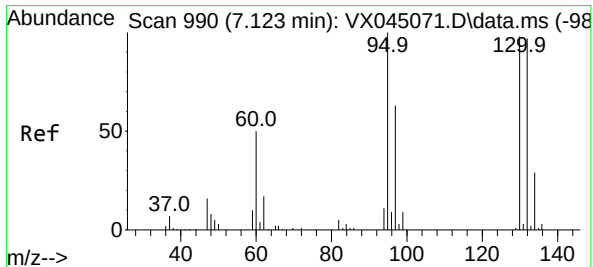
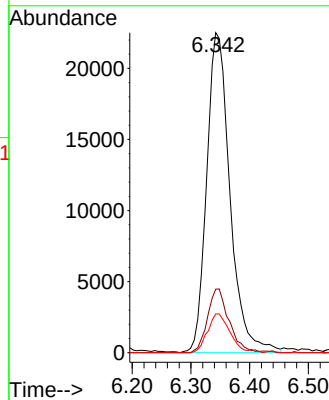
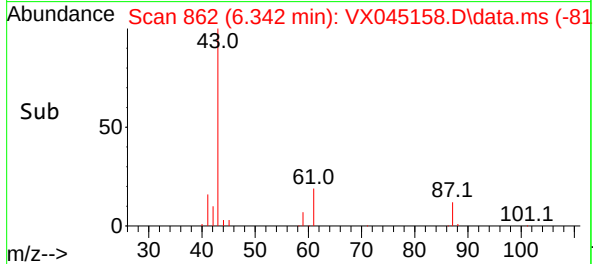
Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01



Tgt Ion: 43 Resp: 62094
Ion Ratio Lower Upper
43 100
61 18.5 14.9 22.3
87 11.7 9.4 14.2

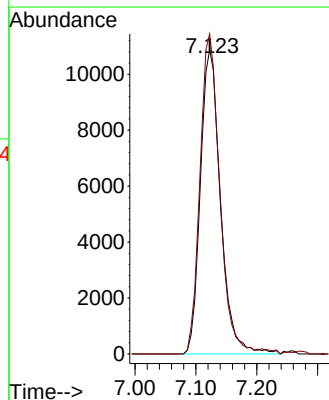
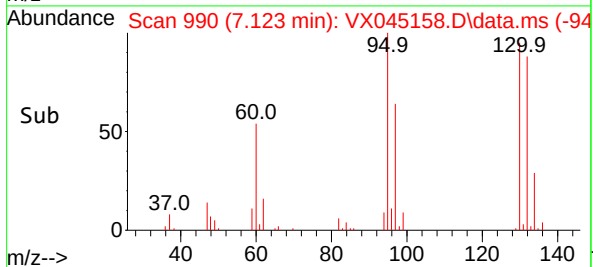
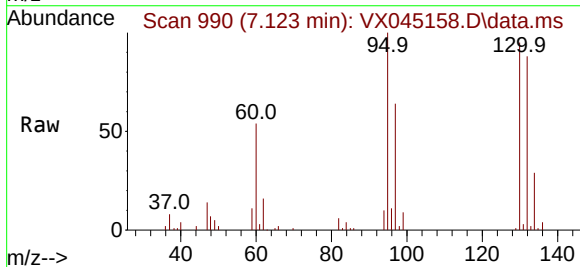
Manual Integrations
APPROVED

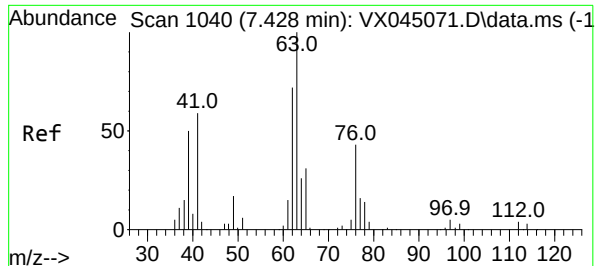
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#44
Trichloroethene
Concen: 20.842 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:130 Resp: 24906
Ion Ratio Lower Upper
130 100
95 105.2 0.0 205.0





#45

1,2-Dichloropropane

Concen: 21.002 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBS01

Tgt Ion: 63 Resp: 2748

Ion Ratio Lower Upper

63 100

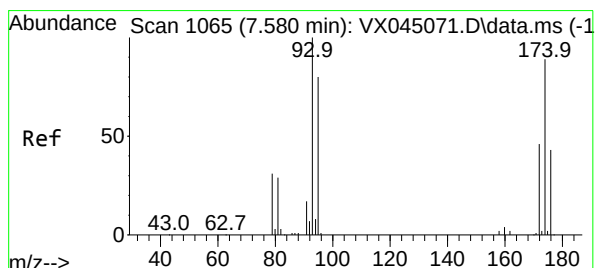
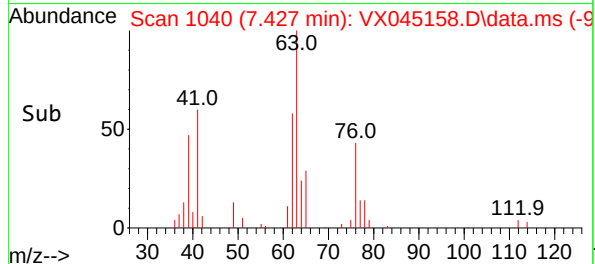
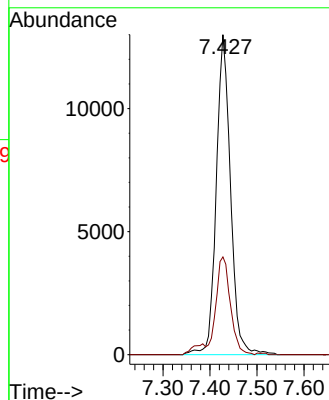
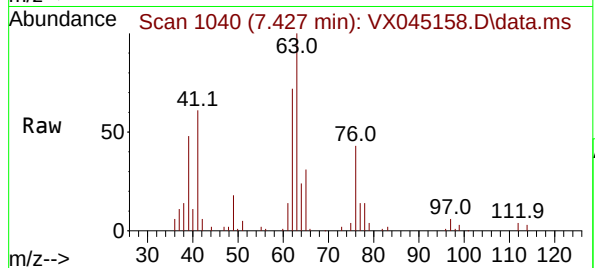
65 30.5 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#46

Dibromomethane

Concen: 21.443 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

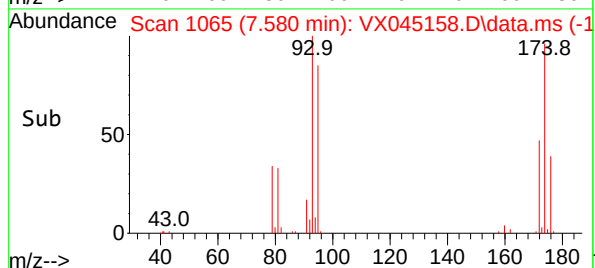
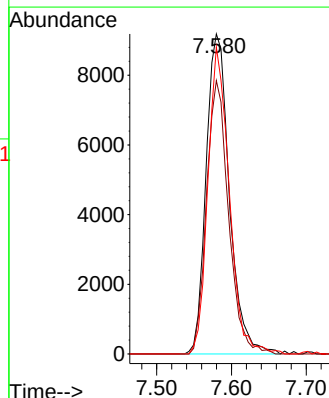
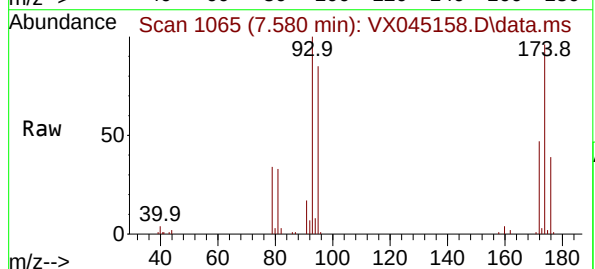
Tgt Ion: 93 Resp: 19832

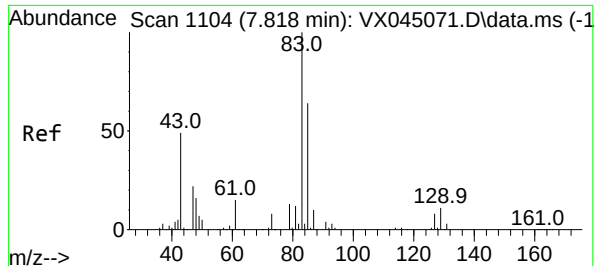
Ion Ratio Lower Upper

93 100

95 81.1 65.8 98.8

174 88.4 72.2 108.2





#47

Bromodichloromethane

Concen: 20.821 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBS01

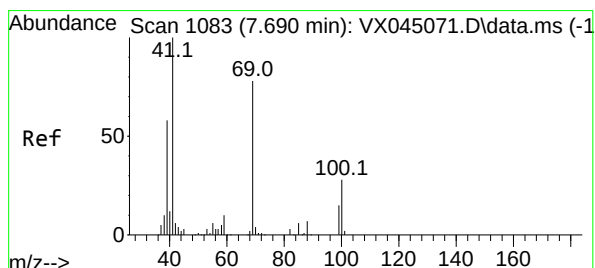
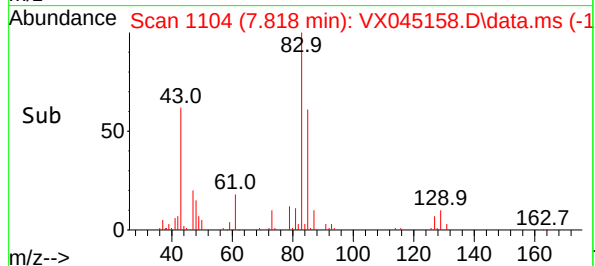
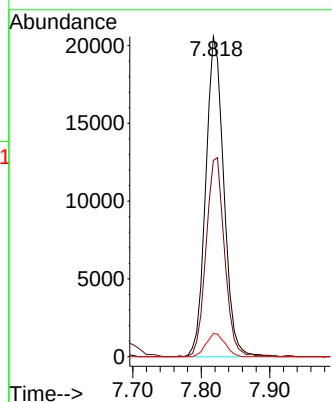
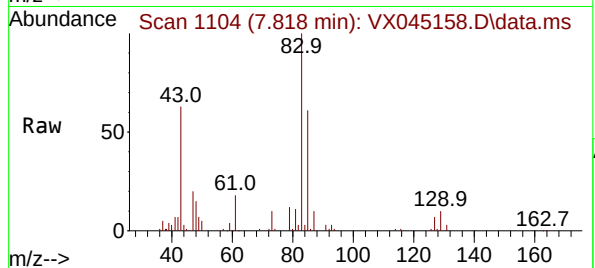
Tgt Ion:	83	Resp:	3777
Ion	Ratio	Lower	Upper
83	100		
85	61.3	51.1	76.7
127	7.2	6.4	9.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#48

Methyl methacrylate

Concen: 20.301 ug/l

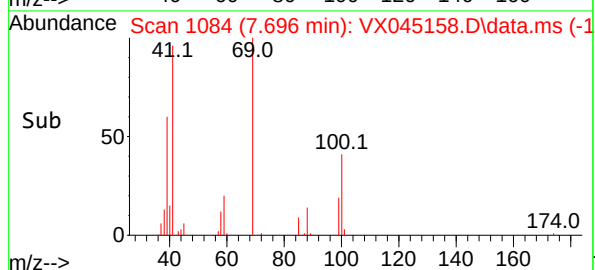
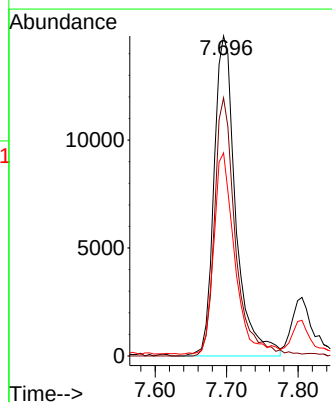
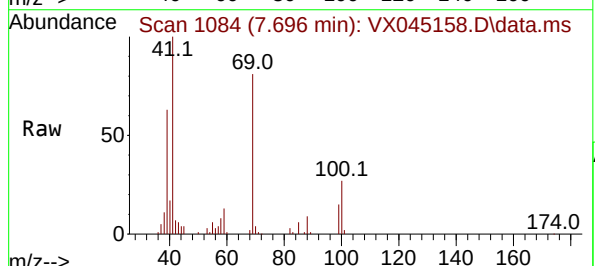
RT: 7.696 min Scan# 1084

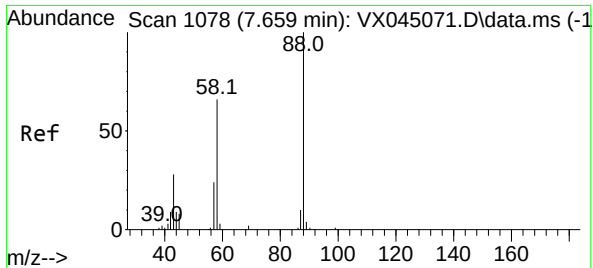
Delta R.T. 0.006 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Tgt Ion:	41	Resp:	31277
Ion	Ratio	Lower	Upper
41	100		
69	77.5	63.0	94.6
39	61.0	47.5	71.3





#49

1,4-Dioxane

Concen: 426.482 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. 0.006 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBS01

Tgt Ion: 88 Resp: 13860

Ion Ratio Lower Upper

88 100

43 33.7 28.7 43.1

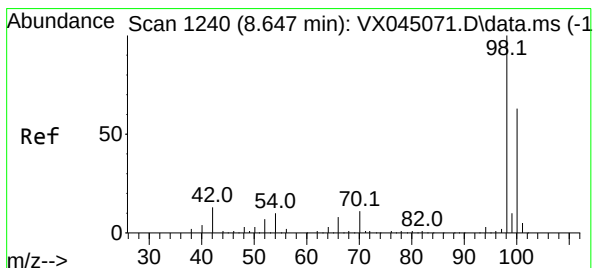
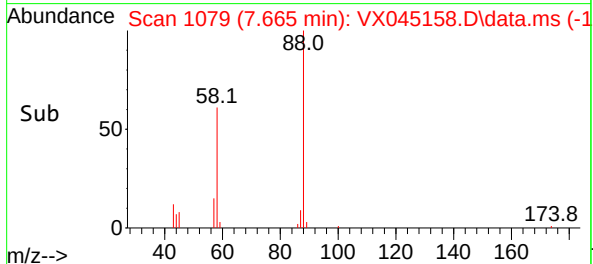
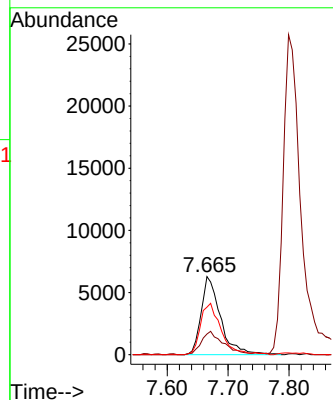
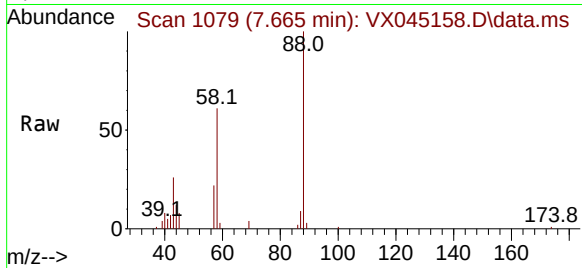
58 69.7 55.8 83.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#50

Toluene-d8

Concen: 50.263 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX045158.D

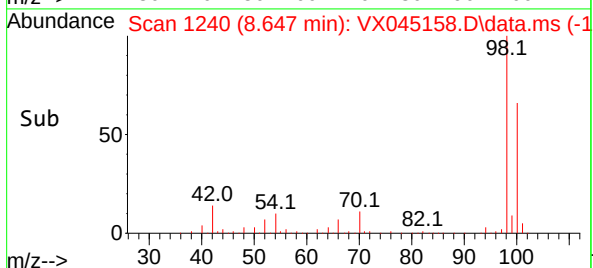
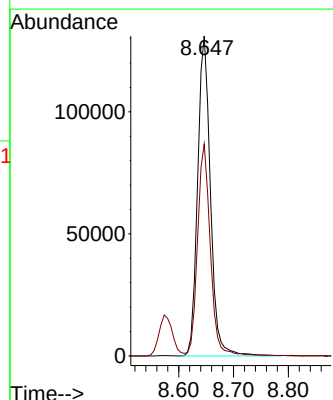
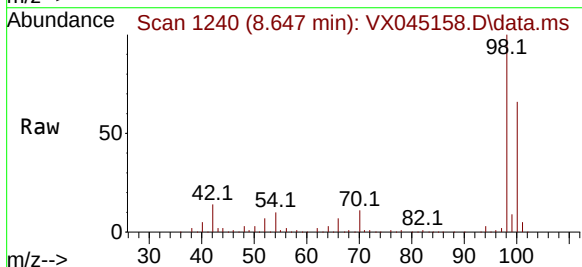
Acq: 06 Mar 2025 11:10

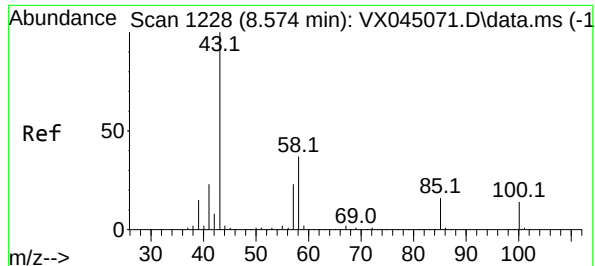
Tgt Ion: 98 Resp: 214149

Ion Ratio Lower Upper

98 100

100 65.7 52.0 78.0





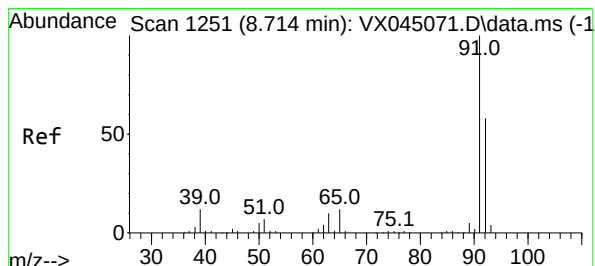
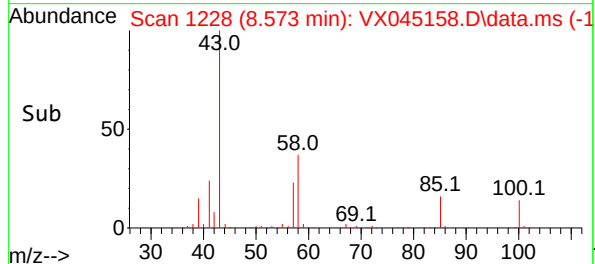
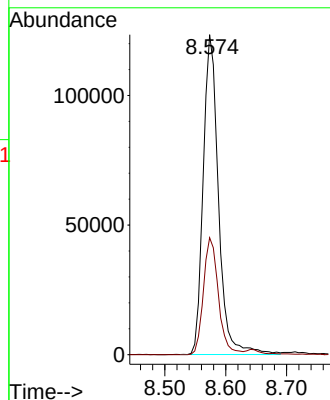
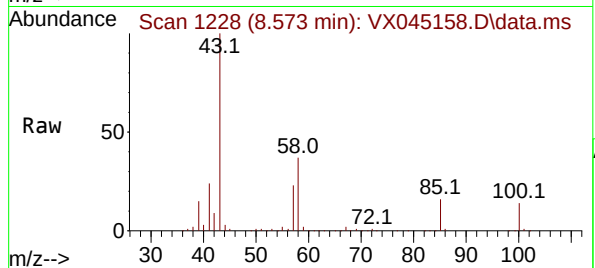
#51
4-Methyl-2-Pentanone
Concen: 104.420 ug/l
RT: 8.573 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Tgt Ion: 43 Resp: 215309
Ion Ratio Lower Upper
43 100
58 35.8 29.2 43.8

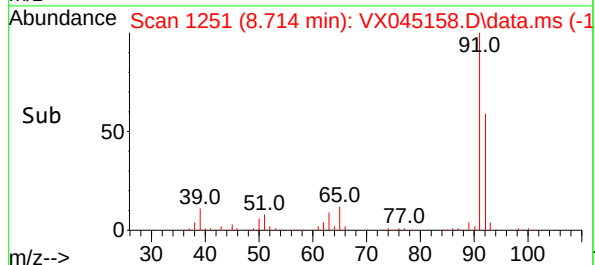
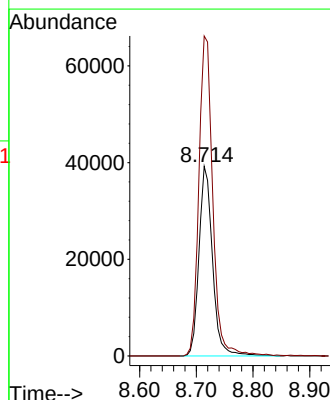
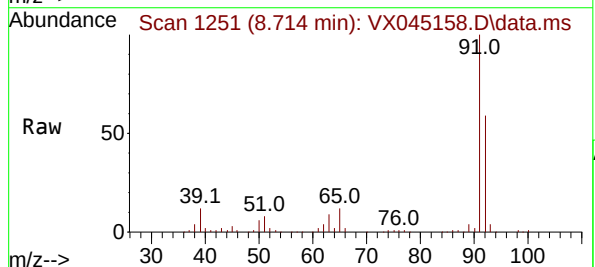
Manual Integrations
APPROVED

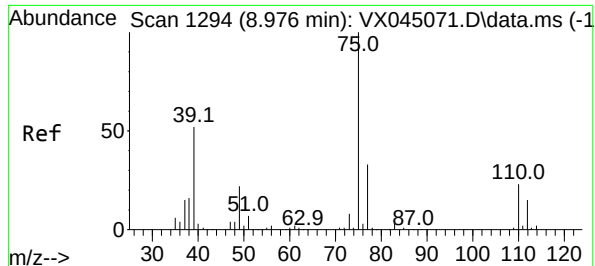
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#52
Toluene
Concen: 21.814 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 92 Resp: 65138
Ion Ratio Lower Upper
92 100
91 172.9 138.9 208.3





#53

t-1,3-Dichloropropene

Concen: 20.407 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBS01

Tgt Ion: 75 Resp: 30950

Ion Ratio Lower Upper

75 100

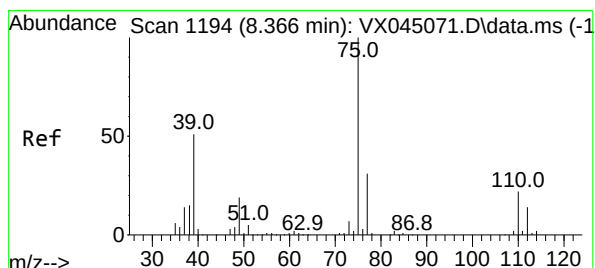
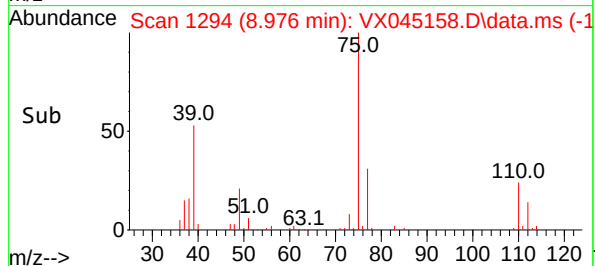
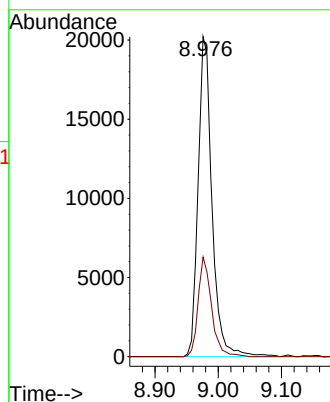
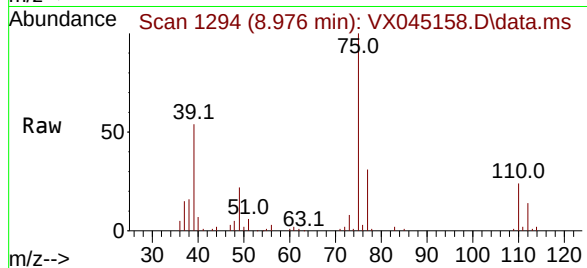
77 31.1 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#54

cis-1,3-Dichloropropene

Concen: 21.182 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

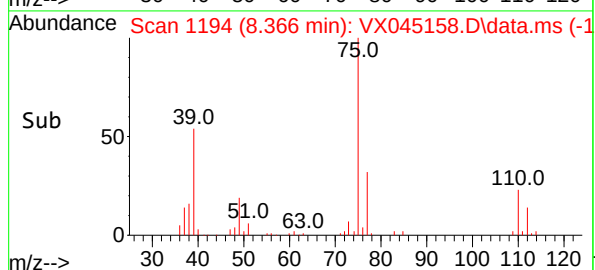
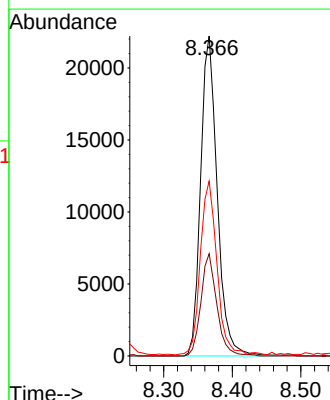
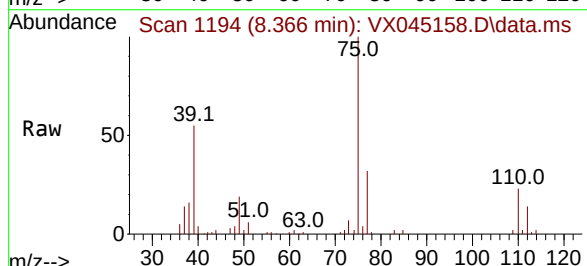
Tgt Ion: 75 Resp: 37460

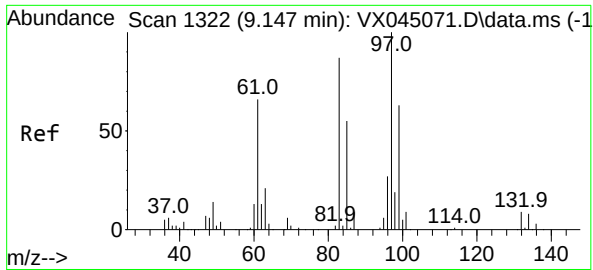
Ion Ratio Lower Upper

75 100

77 31.9 24.7 37.1

39 54.1 40.7 61.1





#55

1,1,2-Trichloroethane

Concen: 20.219 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.006 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBS01

Tgt Ion: 97 Resp: 24854

Ion Ratio Lower Upper

97 100

83 87.0 69.4 104.2

85 59.0 44.1 66.1

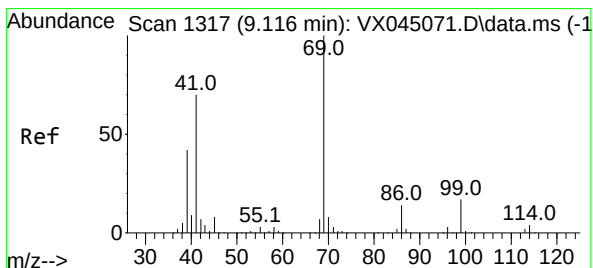
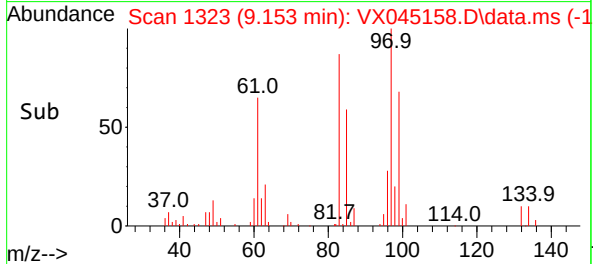
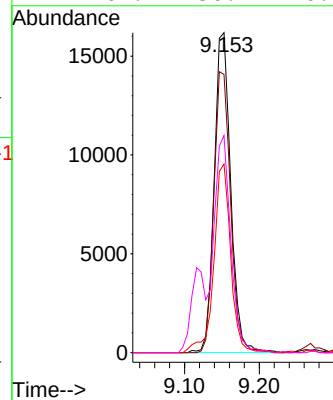
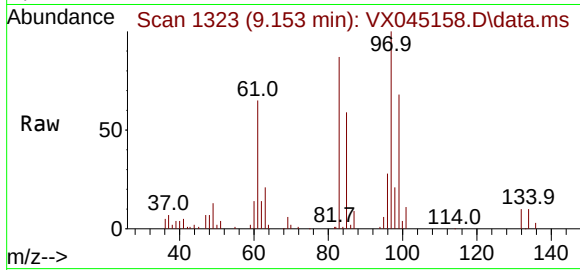
99 67.4 50.7 76.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#56

Ethyl methacrylate

Concen: 20.084 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

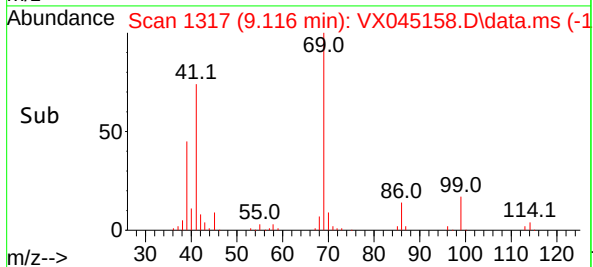
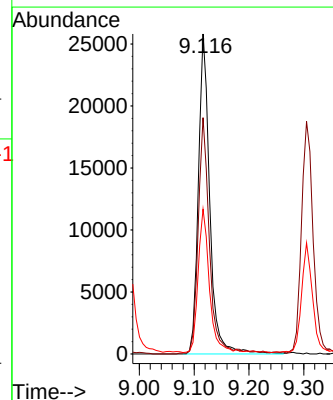
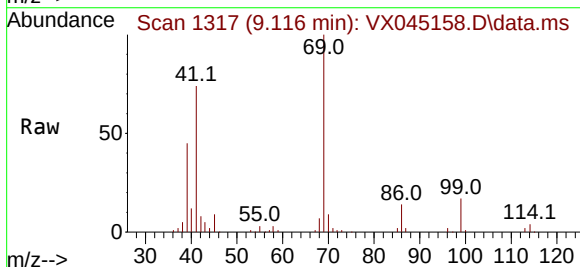
Tgt Ion: 69 Resp: 37529

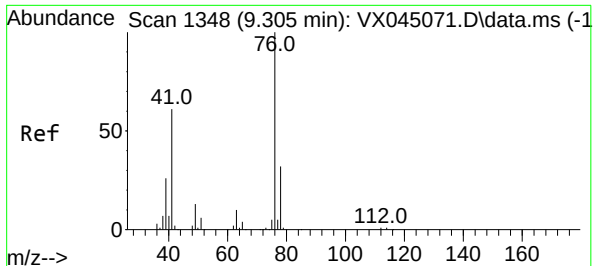
Ion Ratio Lower Upper

69 100

41 73.8 57.0 85.4

39 44.2 34.2 51.4





#57

1,3-Dichloropropane

Concen: 20.660 ug/l

RT: 9.305 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBS01

Tgt Ion: 76 Resp: 4395

Ion Ratio Lower Upper

76 100

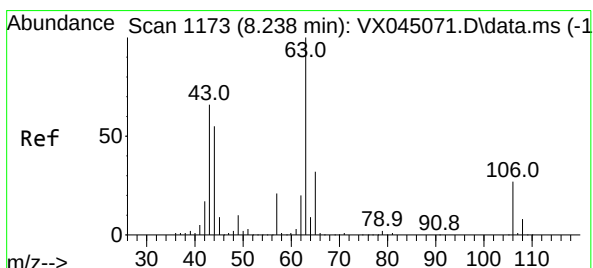
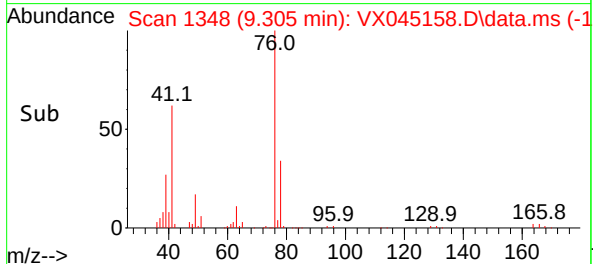
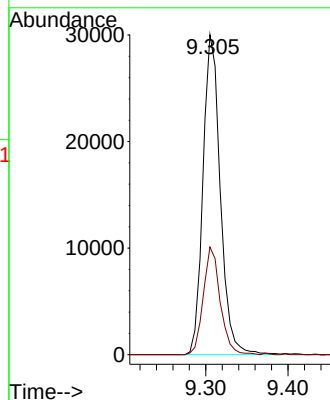
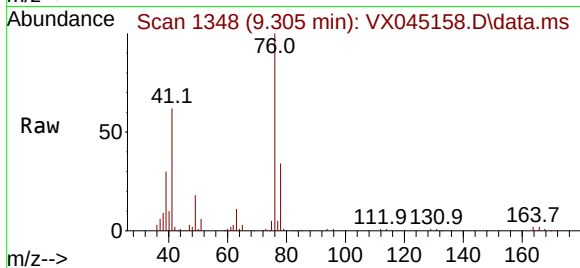
78 32.8 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#58

2-Chloroethyl Vinyl ether

Concen: 98.410 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX045158.D

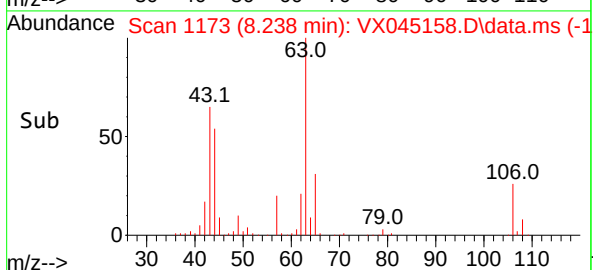
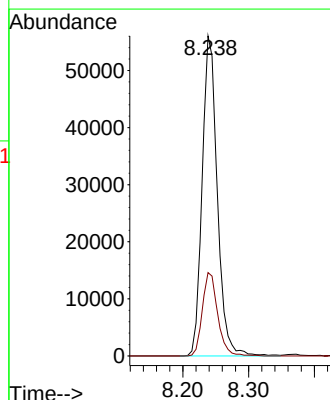
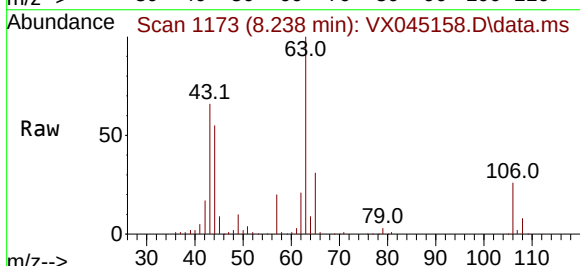
Acq: 06 Mar 2025 11:10

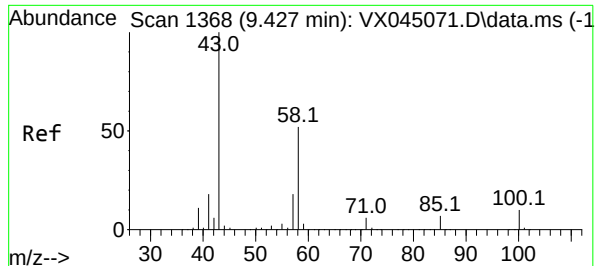
Tgt Ion: 63 Resp: 89701

Ion Ratio Lower Upper

63 100

106 26.4 21.5 32.3





#59

2-Hexanone

Concen: 105.853 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.006 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBS01

Tgt Ion: 43 Resp: 15814

Ion Ratio Lower Upper

43 100

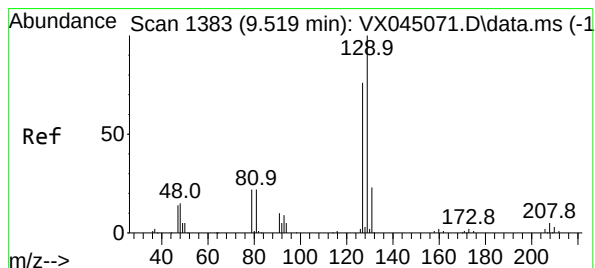
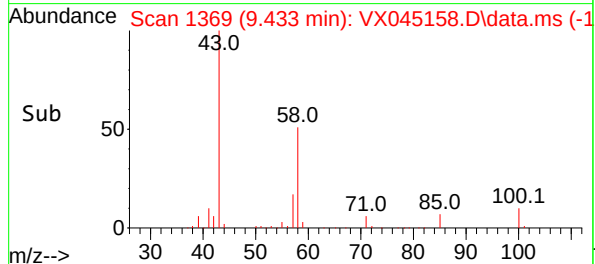
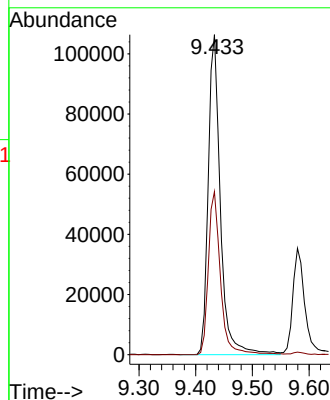
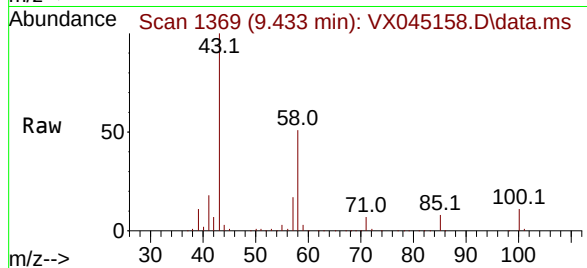
58 51.1 25.9 77.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#60

Dibromochloromethane

Concen: 19.466 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX045158.D

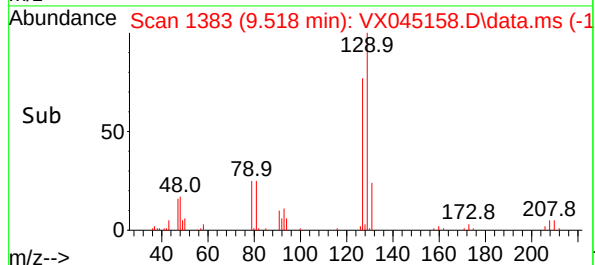
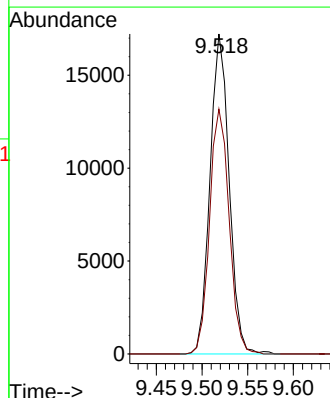
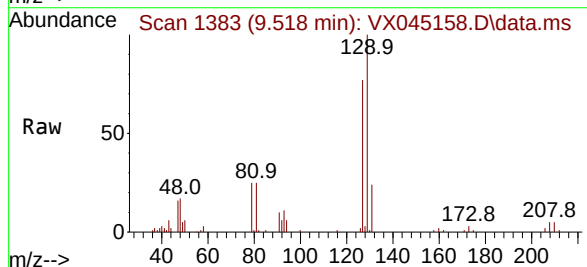
Acq: 06 Mar 2025 11:10

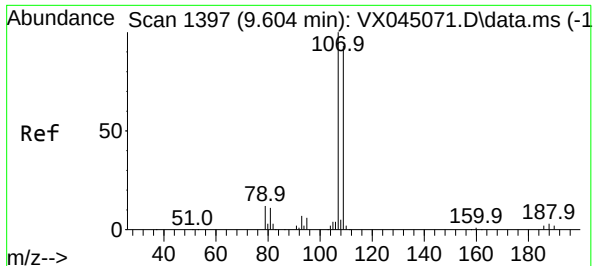
Tgt Ion:129 Resp: 25020

Ion Ratio Lower Upper

129 100

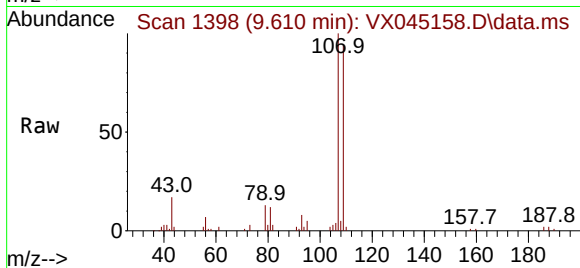
127 78.3 38.5 115.5





#61
1,2-Dibromoethane
Concen: 20.343 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

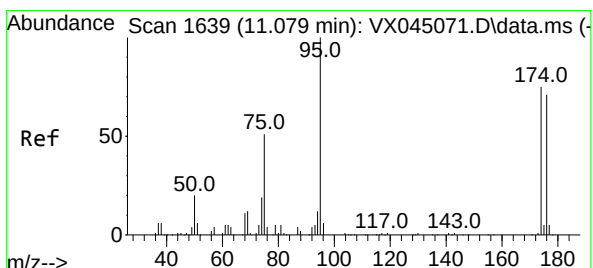
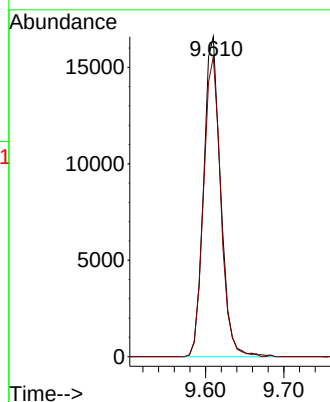
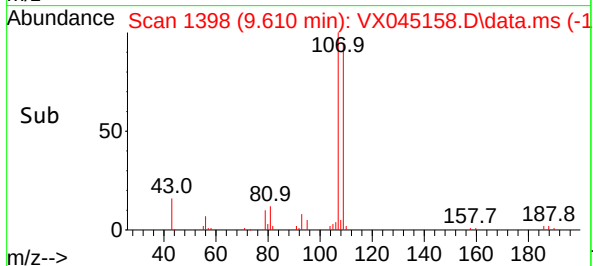
Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01



Tgt Ion:107 Resp: 24964
Ion Ratio Lower Upper
107 100
109 94.9 76.1 114.1

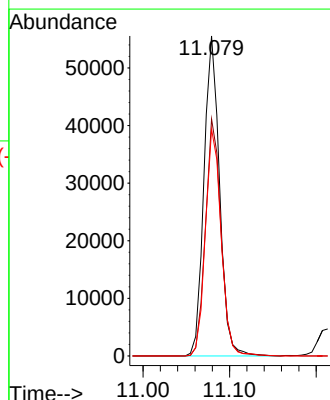
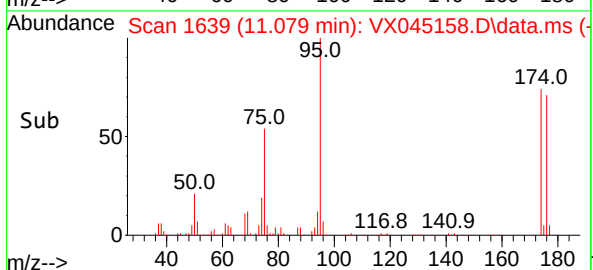
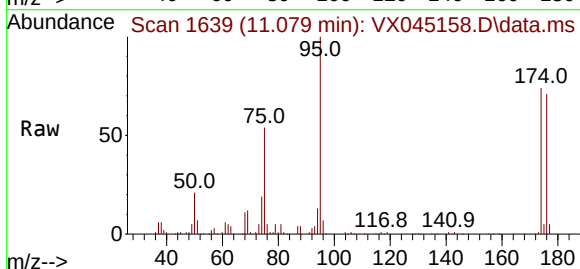
Manual Integrations
APPROVED

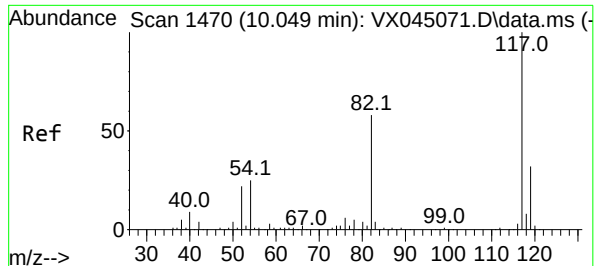
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#62
4-Bromofluorobenzene
Concen: 49.179 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

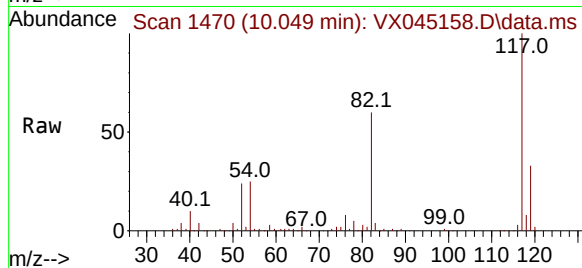
Tgt Ion: 95 Resp: 69431
Ion Ratio Lower Upper
95 100
174 74.1 0.0 148.2
176 71.6 0.0 141.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

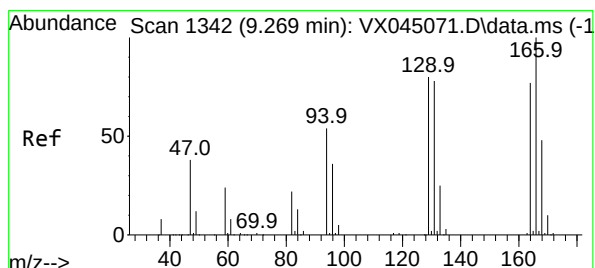
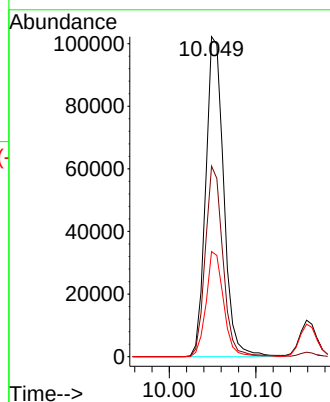
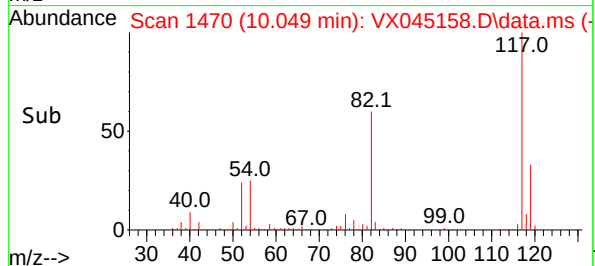
Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01



Tgt Ion:117 Resp: 14775
Ion Ratio Lower Upper
117 100
82 59.6 46.3 69.5
119 32.8 25.7 38.5

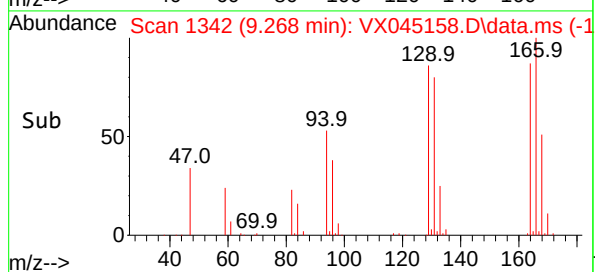
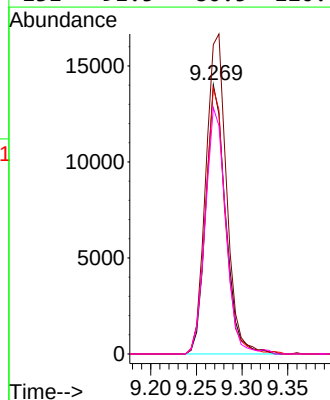
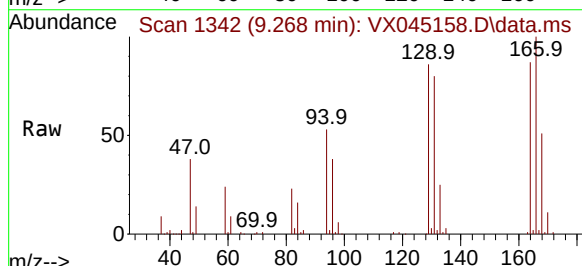
Manual Integrations
APPROVED

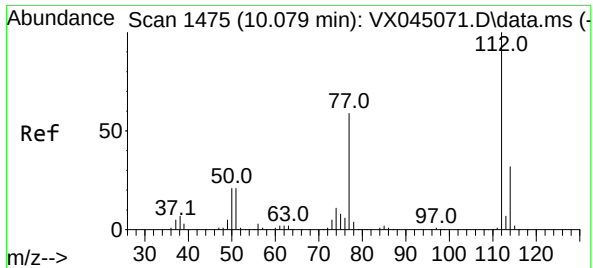
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#64
Tetrachloroethene
Concen: 22.233 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:164 Resp: 21040
Ion Ratio Lower Upper
164 100
166 115.0 103.6 155.4
129 98.8 82.7 124.1
131 91.5 80.5 120.7





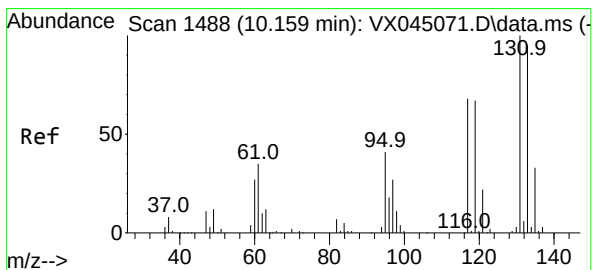
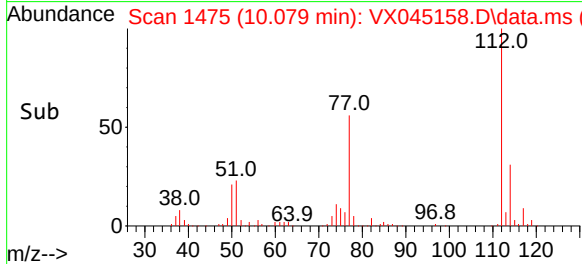
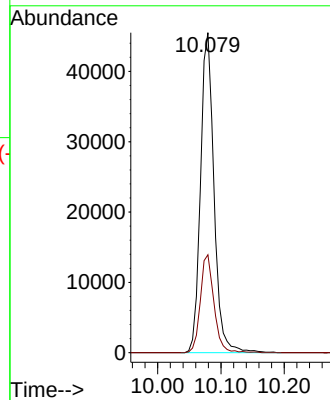
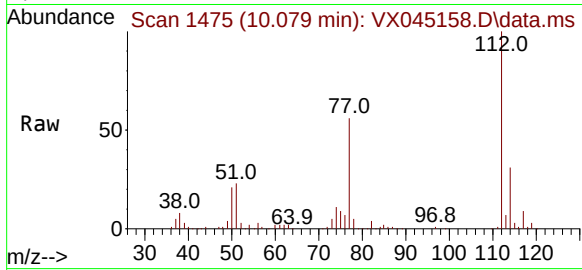
#65
Chlorobenzene
Concen: 21.638 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Tgt Ion:112 Resp: 67652
Ion Ratio Lower Upper
112 100
114 30.6 26.0 39.0

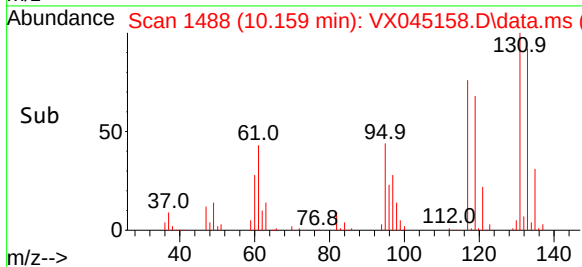
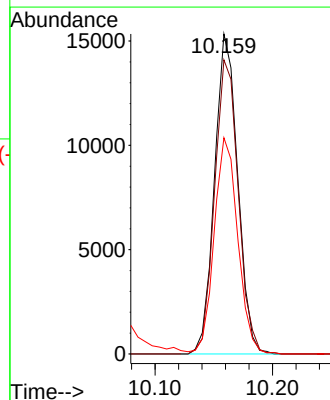
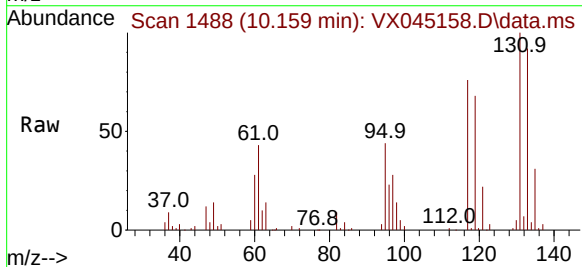
Manual Integrations
APPROVED

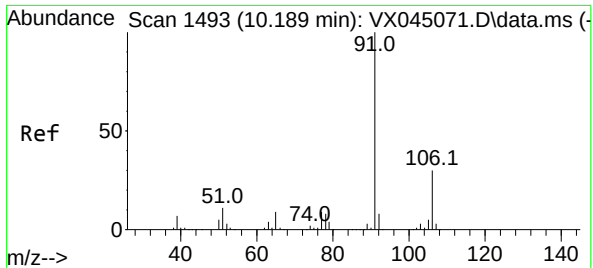
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 20.181 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

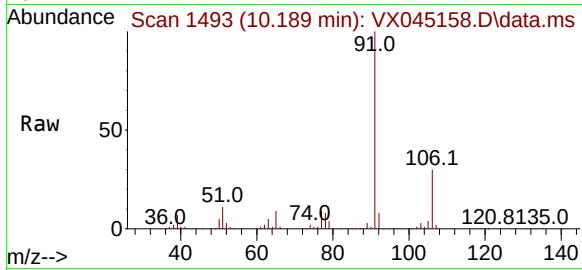
Tgt Ion:131 Resp: 21012
Ion Ratio Lower Upper
131 100
133 94.0 48.6 145.9
119 68.9 33.9 101.7





#67
Ethyl Benzene
Concen: 21.687 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

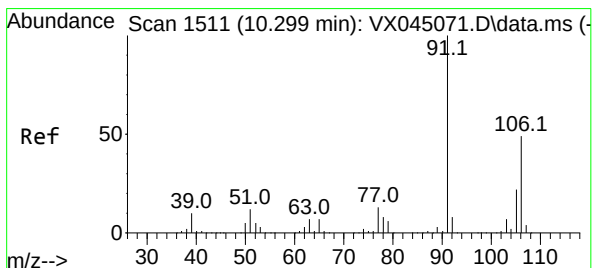
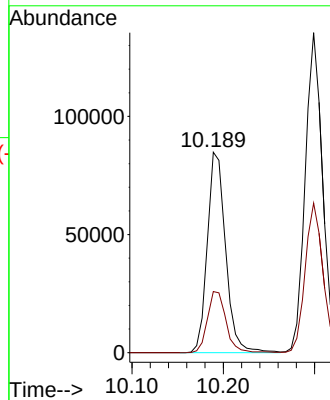
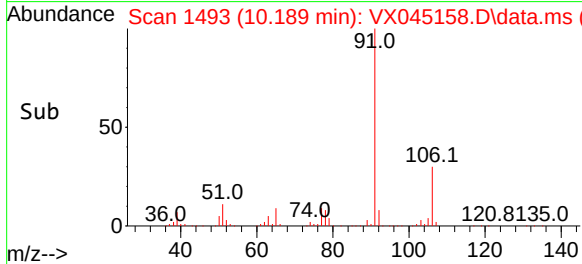
Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01



Tgt Ion: 91 Resp: 11814
Ion Ratio Lower Upper
91 100
106 30.5 23.9 35.9

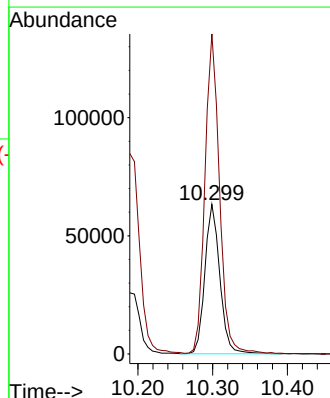
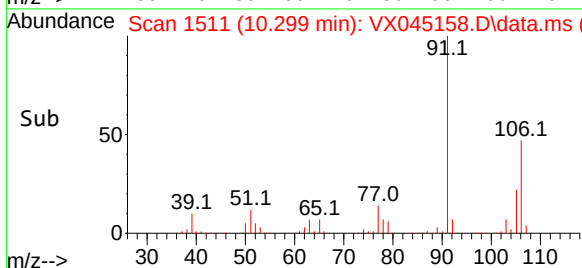
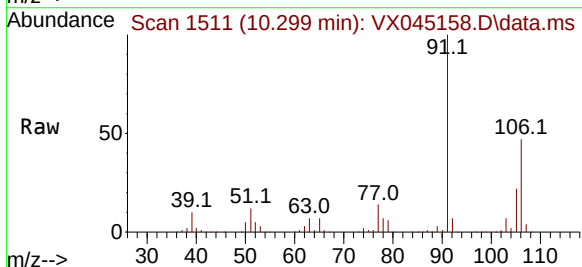
Manual Integrations
APPROVED

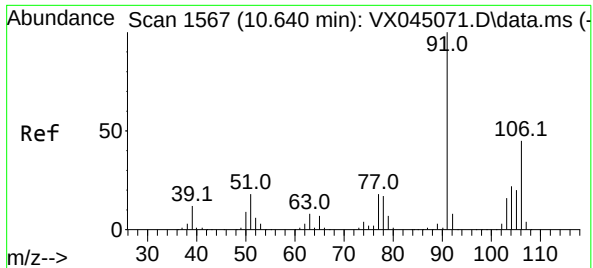
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#68
m/p-Xylenes
Concen: 43.986 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:106 Resp: 87720
Ion Ratio Lower Upper
106 100
91 208.7 165.4 248.0





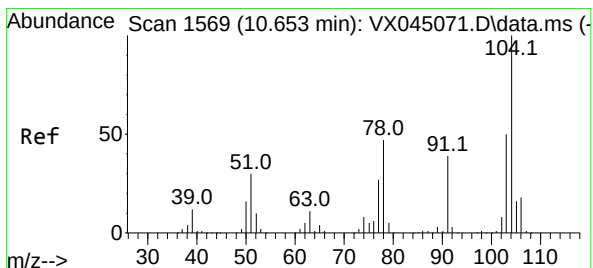
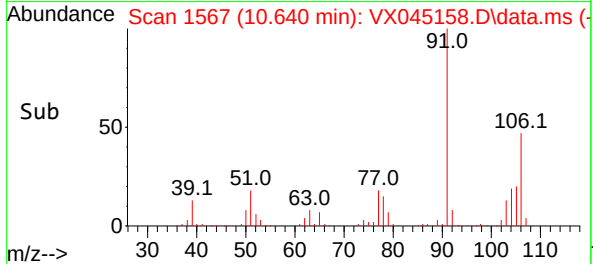
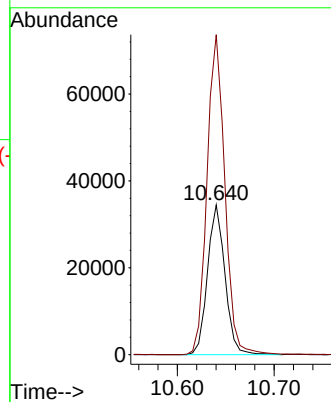
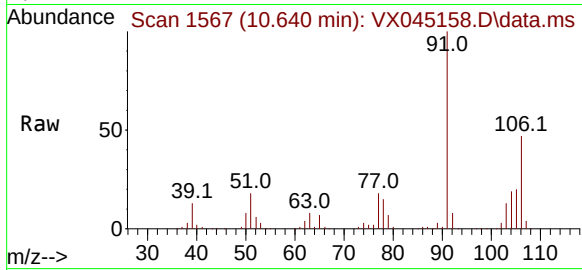
#69
o-Xylene
Concen: 21.539 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Tgt Ion:106 Resp: 4332
Ion Ratio Lower Upper
106 100
91 218.3 109.9 329.6

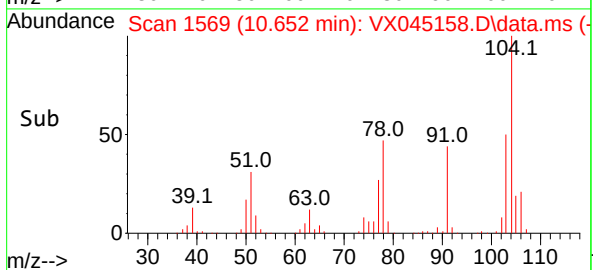
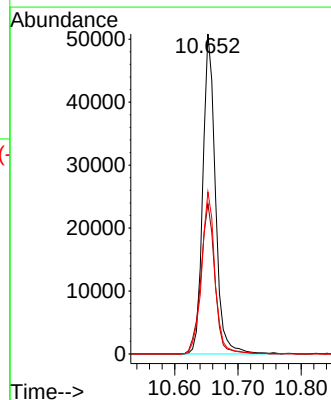
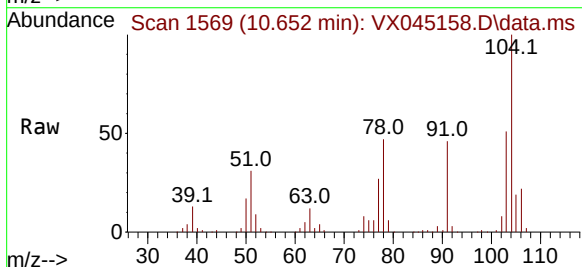
Manual Integrations
APPROVED

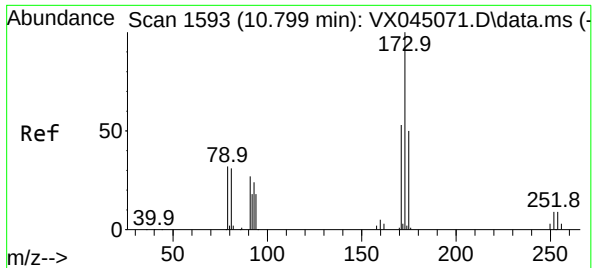
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#70
Styrene
Concen: 21.700 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

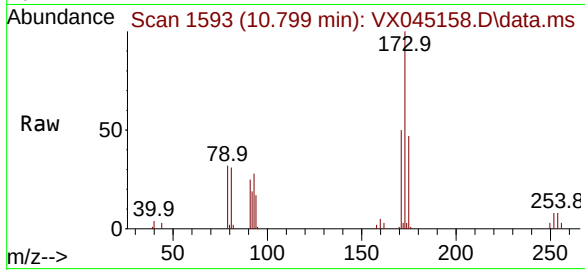
Tgt Ion:104 Resp: 70623
Ion Ratio Lower Upper
104 100
78 52.5 42.2 63.4
103 53.9 43.8 65.8





#71
Bromoform
Concen: 19.408 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

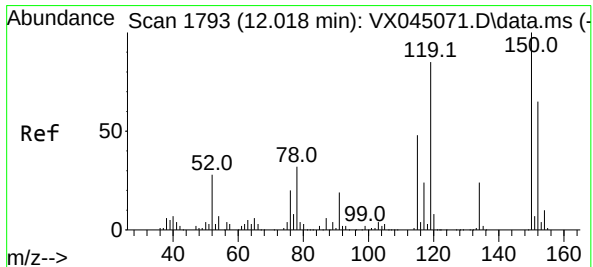
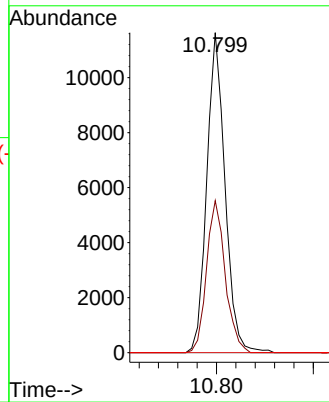
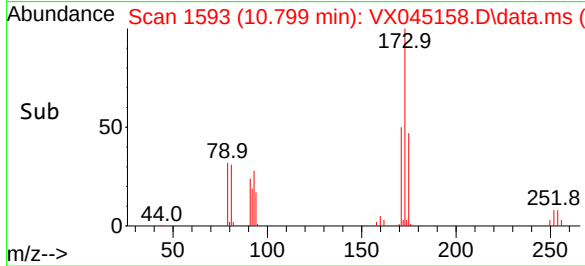
Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01



Tgt Ion:173 Resp: 15238
Ion Ratio Lower Upper
173 100
175 48.9 24.6 73.6
254 0.0 0.0 0.0

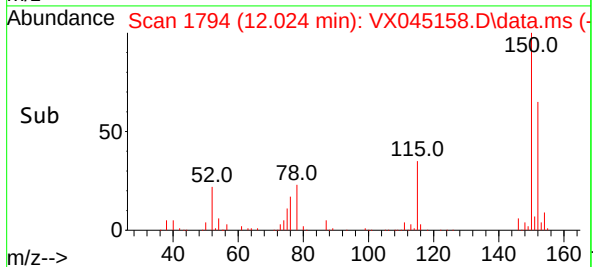
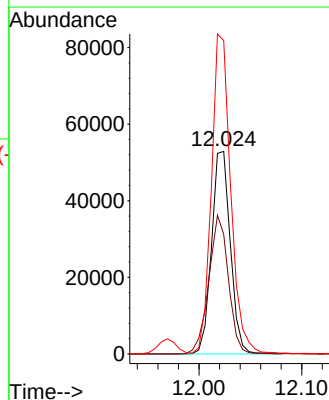
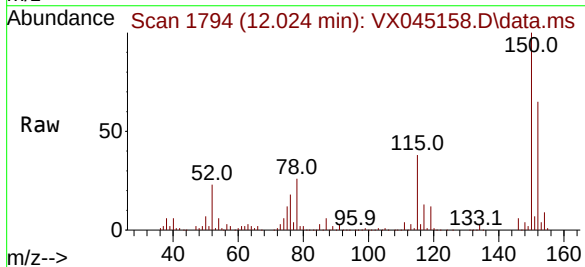
Manual Integrations
APPROVED

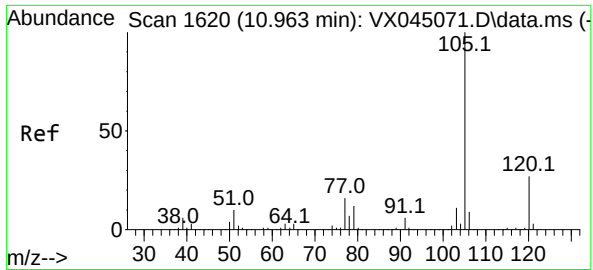
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:152 Resp: 67123
Ion Ratio Lower Upper
152 100
115 71.3 44.2 132.6
150 161.6 0.0 349.0





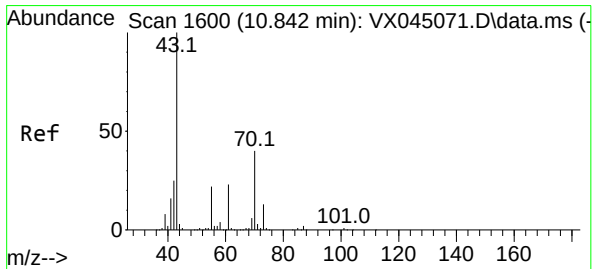
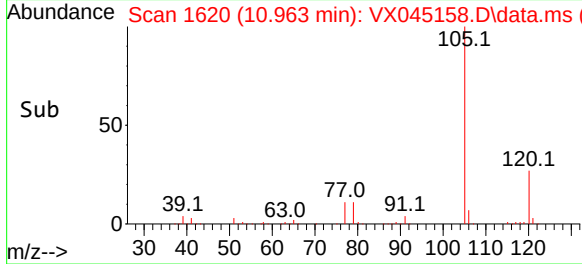
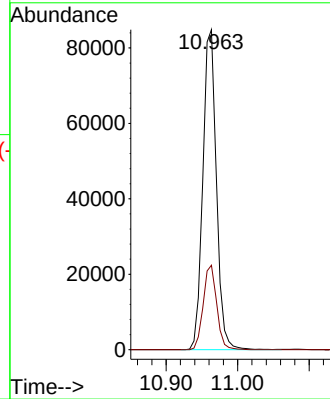
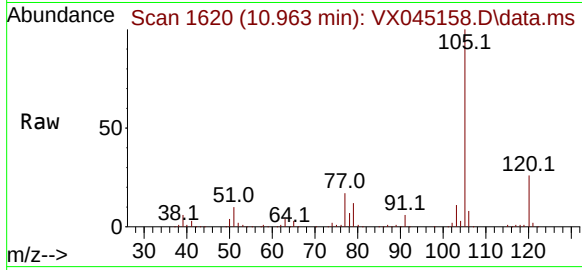
#73
Isopropylbenzene
Concen: 21.304 ug/l
RT: 10.963 min Scan# 11161
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Tgt Ion:105 Resp: 11161
Ion Ratio Lower Upper
105 100
120 26.2 13.2 39.5

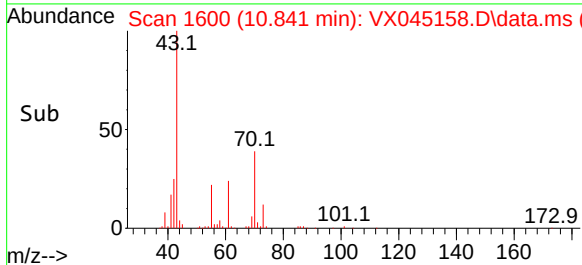
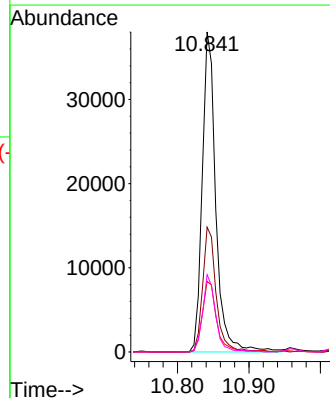
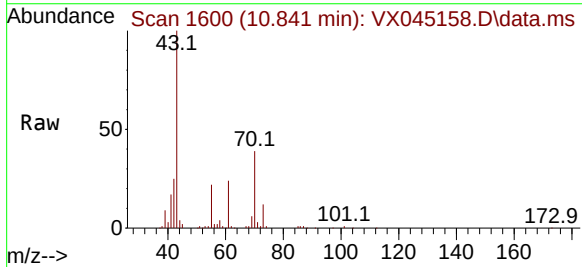
Manual Integrations
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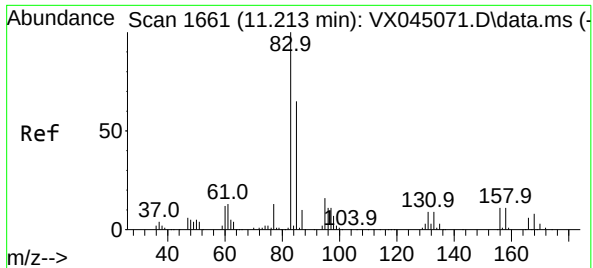
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#74
N-ethyl acetate
Concen: 20.428 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 43 Resp: 50220
Ion Ratio Lower Upper
43 100
70 39.0 31.8 47.6
55 23.0 18.3 27.5
61 23.0 18.3 27.5





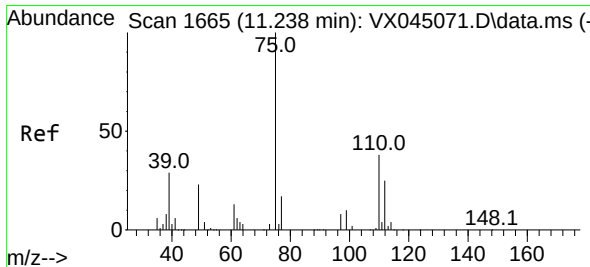
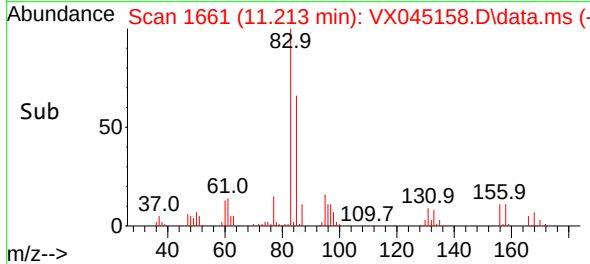
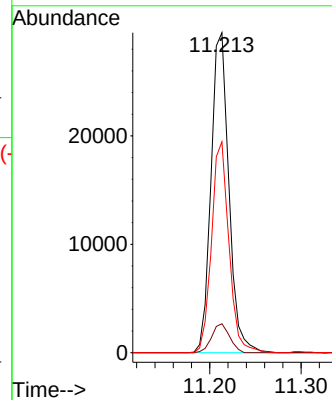
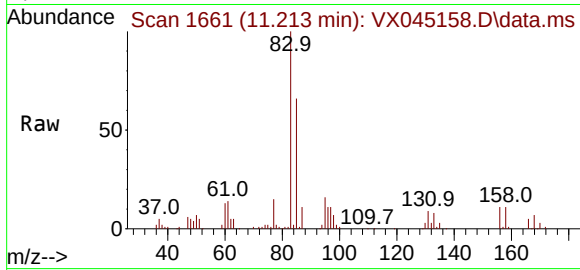
#75
1,1,2,2-Tetrachloroethane
Concen: 20.775 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Tgt Ion: 83 Resp: 3994
Ion Ratio Lower Upper
83 100
131 9.1 4.5 13.4
85 64.2 31.7 95.1

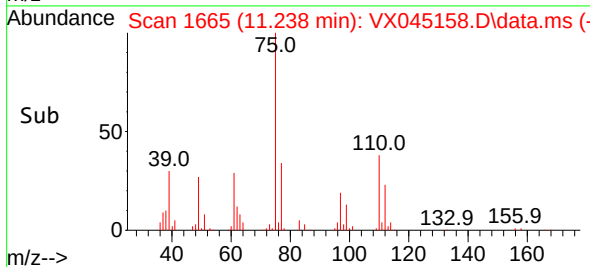
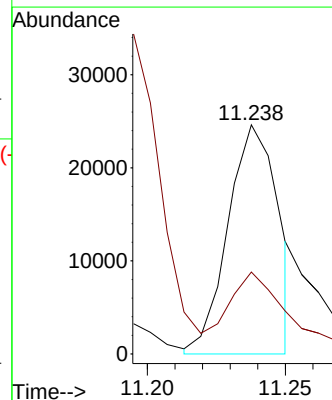
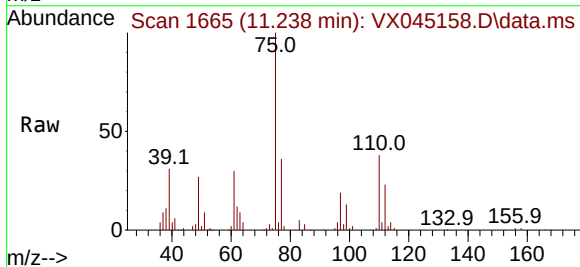
Manual Integrations
APPROVED

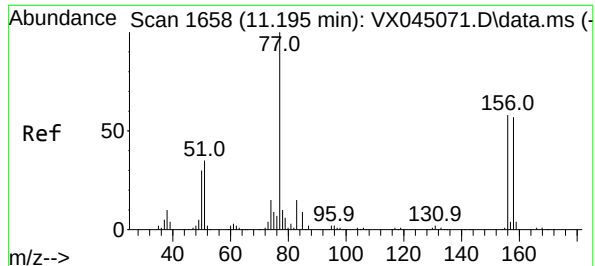
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#76
1,2,3-Trichloropropane
Concen: 20.030 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 75 Resp: 31293
Ion Ratio Lower Upper
75 100
77 43.4 20.7 62.1





#77

Bromobenzene

Concen: 20.716 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBS01

Tgt Ion:156 Resp: 25608

Ion Ratio Lower Upper

156 100

77 171.8 85.8 257.4

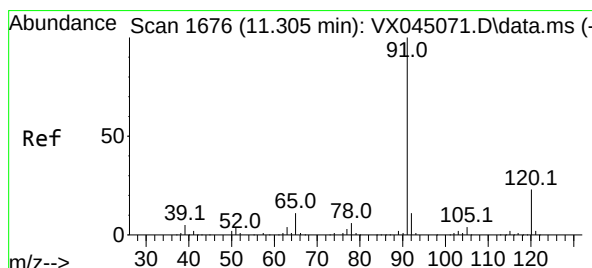
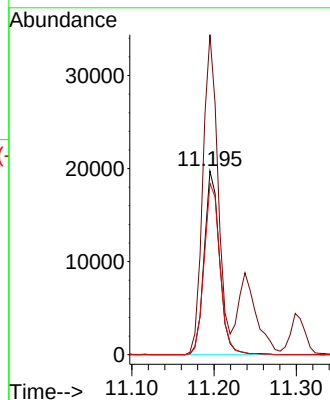
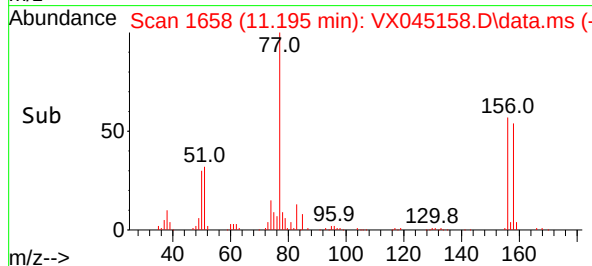
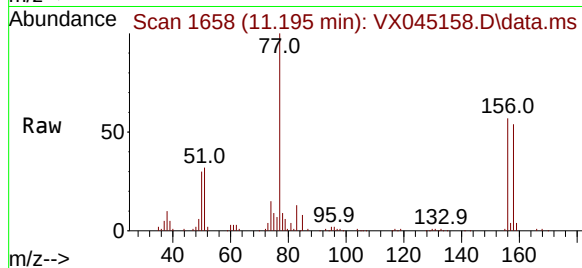
158 96.3 48.4 145.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#78

n-propylbenzene

Concen: 21.423 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. -0.000 min

Lab File: VX045158.D

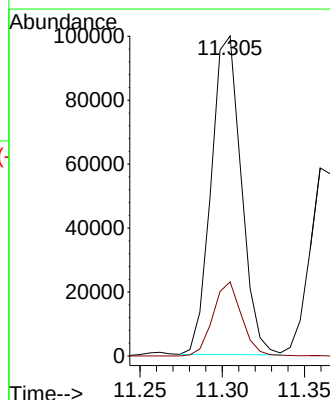
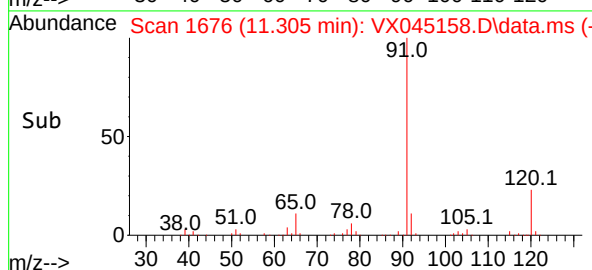
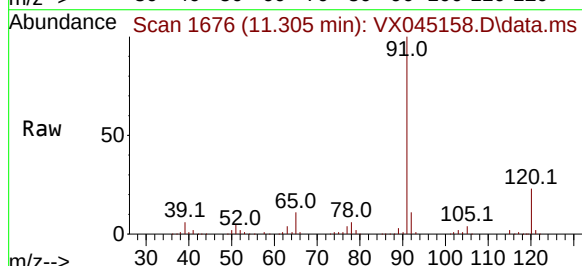
Acq: 06 Mar 2025 11:10

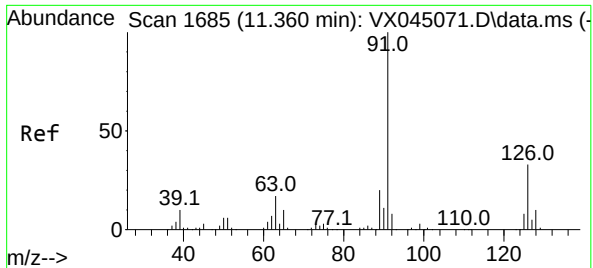
Tgt Ion: 91 Resp: 126790

Ion Ratio Lower Upper

91 100

120 22.2 11.2 33.6





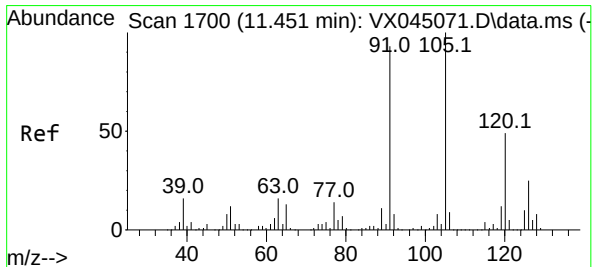
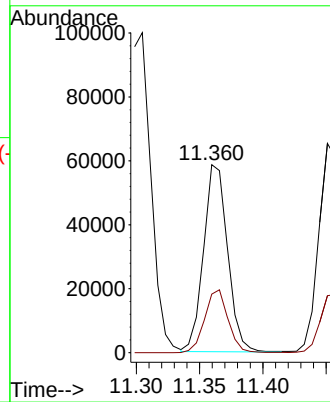
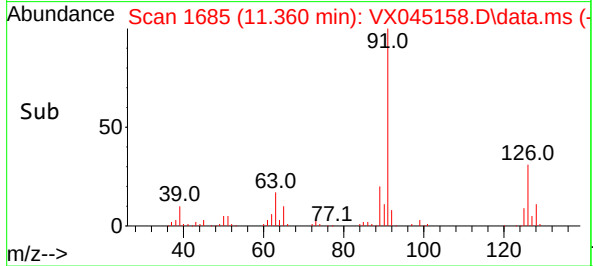
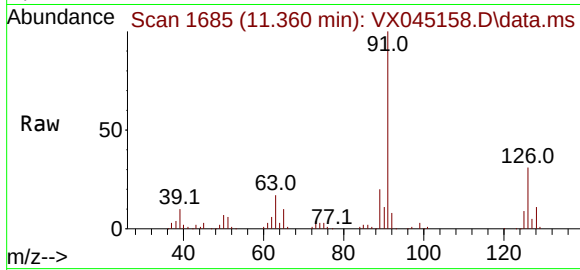
#79
2-Chlorotoluene
Concen: 20.533 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Tgt Ion: 91 Resp: 7739
Ion Ratio Lower Upper
91 100
126 32.8 16.4 49.4

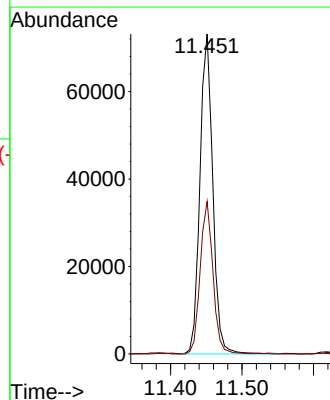
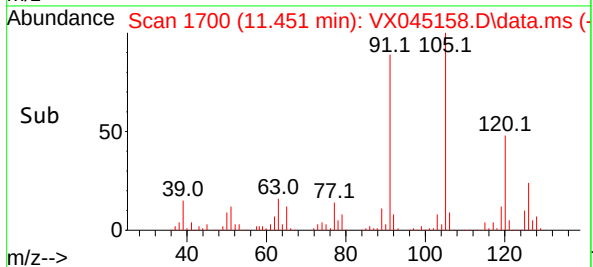
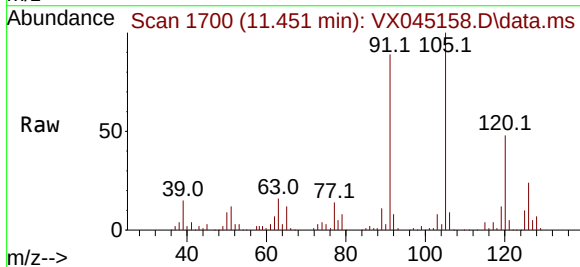
Manual Integrations
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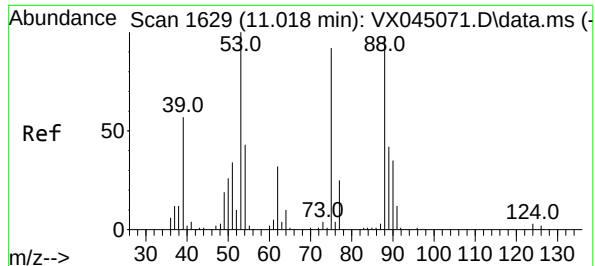
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#80
1,3,5-Trimethylbenzene
Concen: 21.511 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

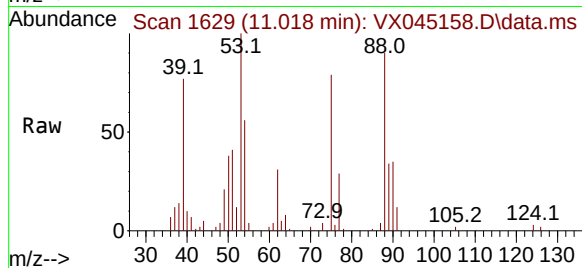
Tgt Ion:105 Resp: 91126
Ion Ratio Lower Upper
105 100
120 47.6 24.1 72.2





#81
trans-1,4-Dichloro-2-butene
Concen: 16.954 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

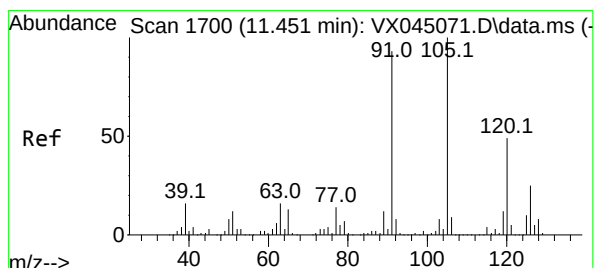
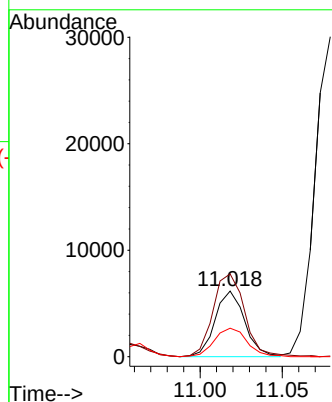
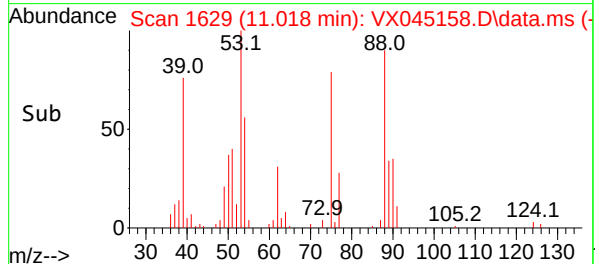
Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01



Tgt Ion: 75 Resp: 7740
Ion Ratio Lower Upper
75 100
53 135.5 88.5 132.7
89 47.9 36.2 54.4

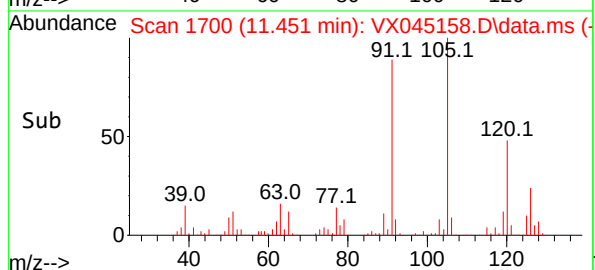
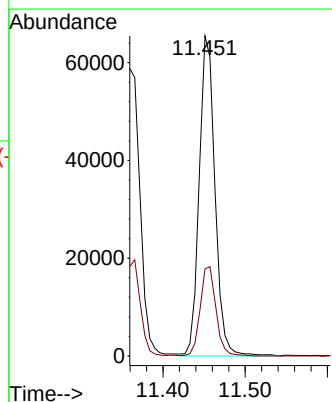
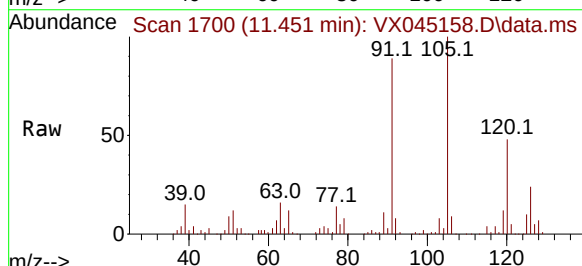
Manual Integrations
APPROVED

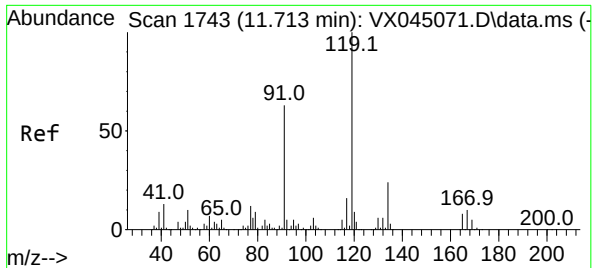
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#82
4-Chlorotoluene
Concen: 21.257 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

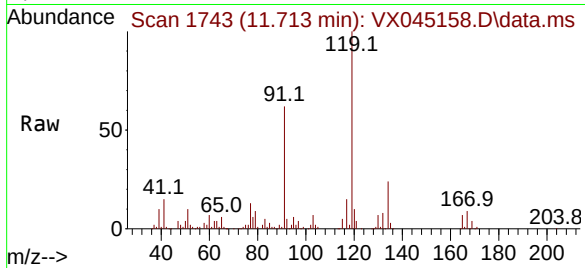
Tgt Ion: 91 Resp: 87322
Ion Ratio Lower Upper
91 100
126 27.8 14.1 42.4





#83
tert-Butylbenzene
Concen: 20.921 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

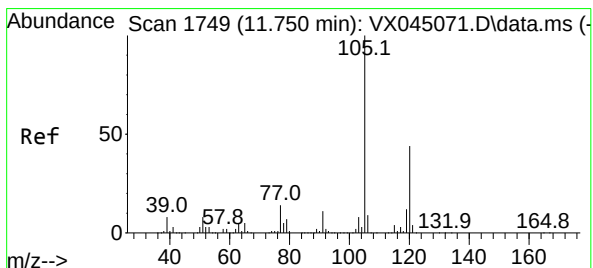
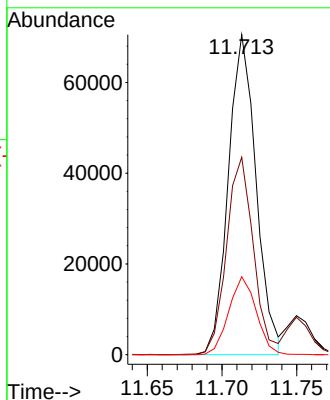
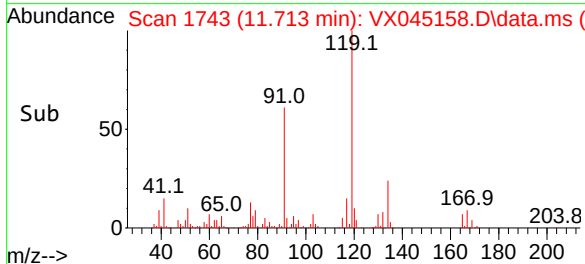
Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01



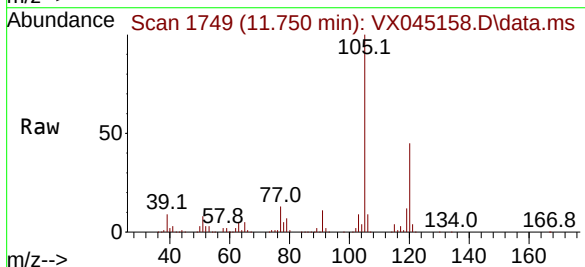
Tgt Ion:119 Resp: 9106
Ion Ratio Lower Upper
119 100
91 60.0 30.7 92.1
134 24.1 11.7 35.0

Manual Integrations
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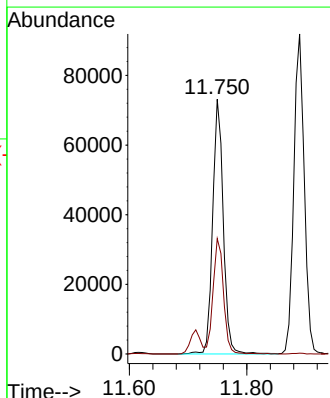
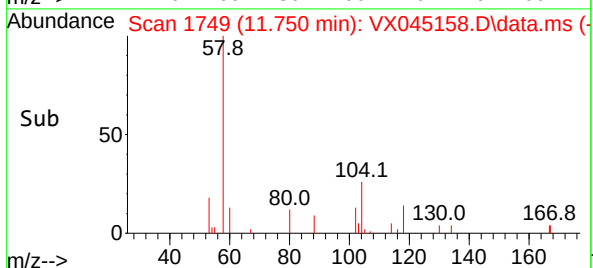
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

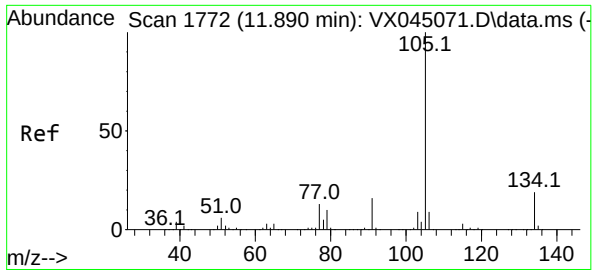


#84
1,2,4-Trimethylbenzene
Concen: 21.544 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10



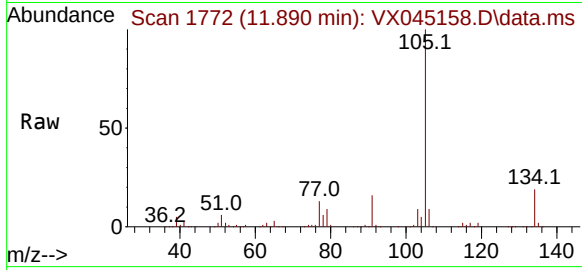
Tgt Ion:105 Resp: 91832
Ion Ratio Lower Upper
105 100
120 44.1 22.1 66.1





#85
 sec-Butylbenzene
 Concen: 21.656 ug/l
 RT: 11.890 min Scan# 1772
 Delta R.T. -0.000 min
 Lab File: VX045158.D
 Acq: 06 Mar 2025 11:10

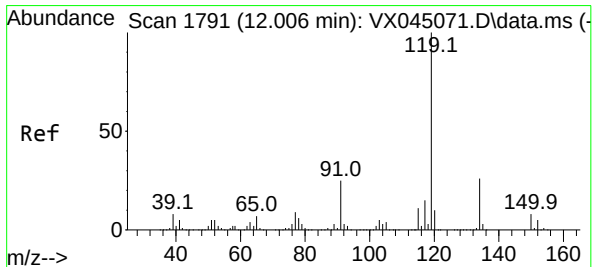
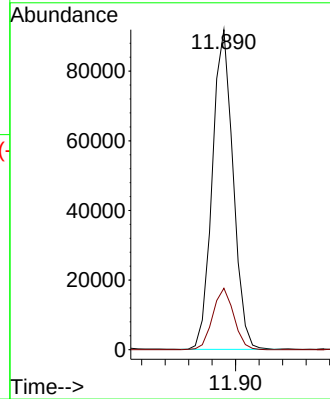
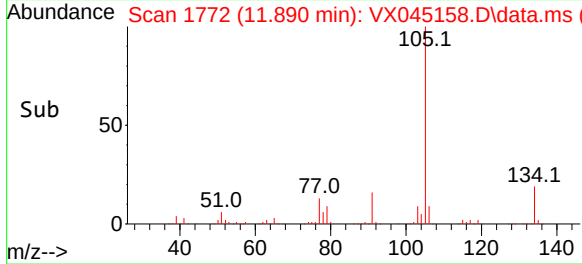
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0306WBS01



Tgt Ion:105 Resp: 112914
 Ion Ratio Lower Upper
 105 100
 134 19.4 9.8 29.4

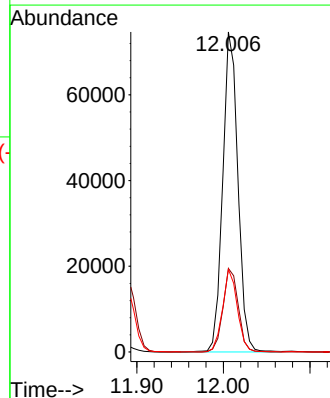
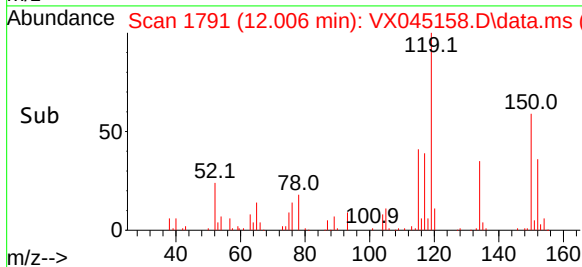
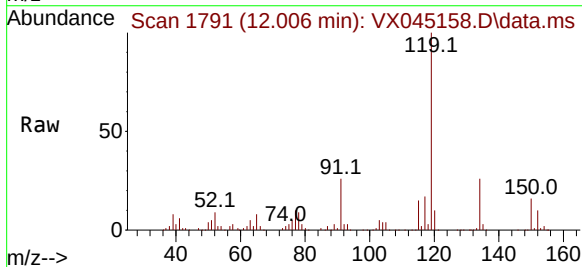
Manual Integrations
 APPROVED

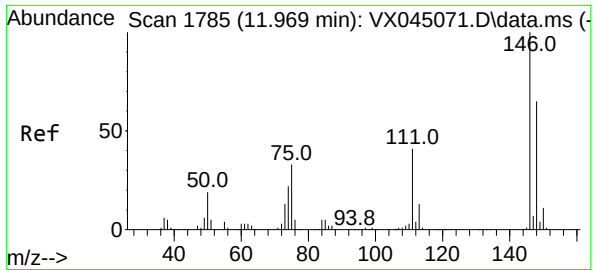
Reviewed By :John Carlone 03/10/2025
 Supervised By :Mahesh Dadoda 03/10/2025



#86
 p-Isopropyltoluene
 Concen: 21.589 ug/l
 RT: 12.006 min Scan# 1791
 Delta R.T. -0.000 min
 Lab File: VX045158.D
 Acq: 06 Mar 2025 11:10

Tgt Ion:119 Resp: 90968
 Ion Ratio Lower Upper
 119 100
 134 26.2 12.9 38.6
 91 25.1 12.7 38.0





#87

1,3-Dichlorobenzene

Concen: 20.761 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBS01

Tgt Ion:146 Resp: 4578

Ion Ratio Lower Upper

146 100

111 41.4 21.1 63.4

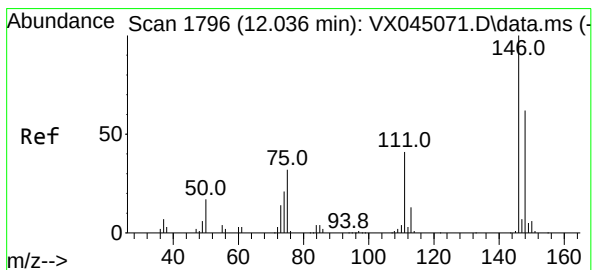
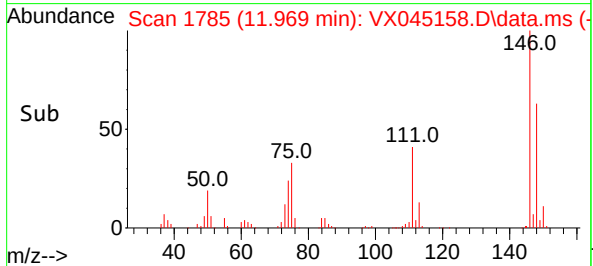
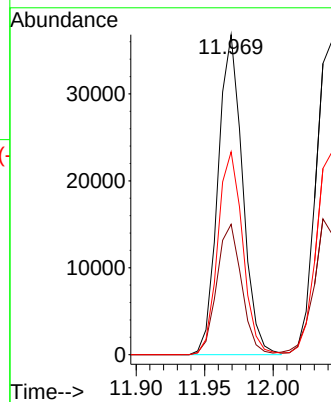
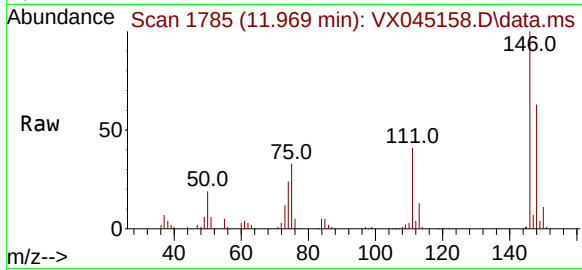
148 64.3 31.9 95.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#88

1,4-Dichlorobenzene

Concen: 20.703 ug/l

RT: 12.042 min Scan# 1797

Delta R.T. 0.006 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

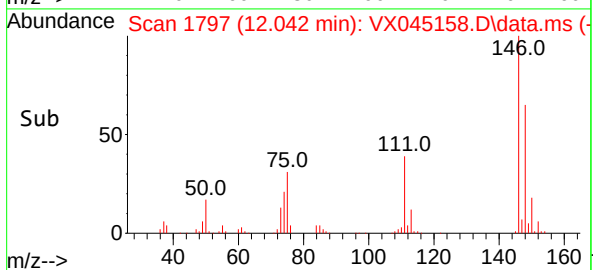
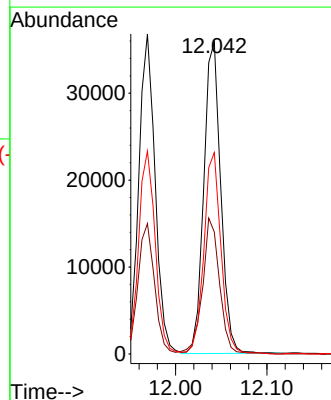
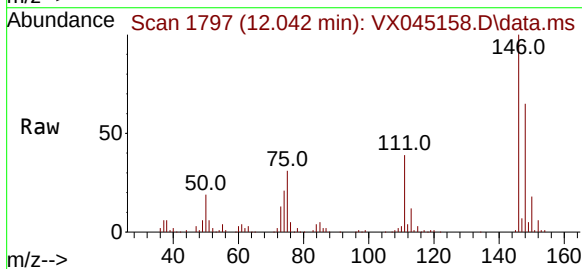
Tgt Ion:146 Resp: 46189

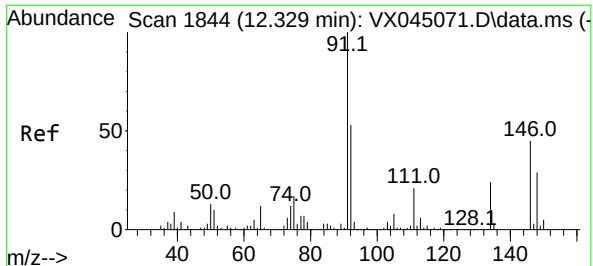
Ion Ratio Lower Upper

146 100

111 44.1 20.2 60.5

148 65.0 31.9 95.9





#89

n-Butylbenzene

Concen: 21.925 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX045158.D

Acq: 06 Mar 2025 11:10

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBS01

Tgt Ion: 91 Resp: 7956

Ion Ratio Lower Upper

91 100

92 53.0 26.7 80.0

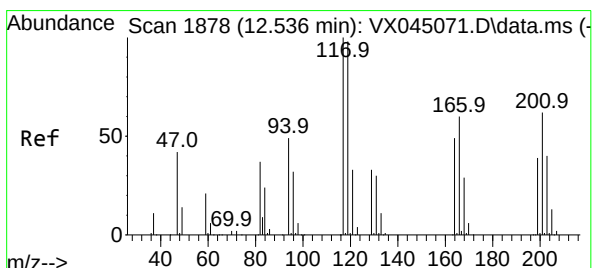
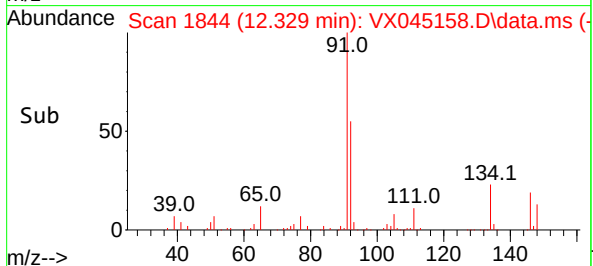
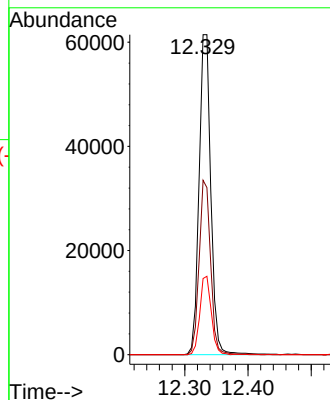
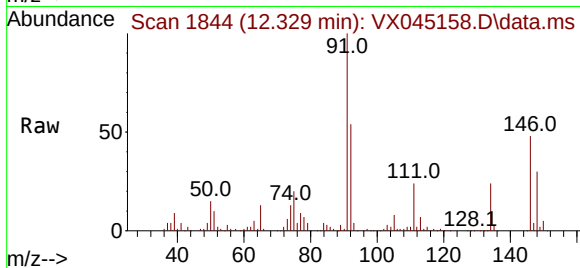
134 23.9 12.2 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#90

Hexachloroethane

Concen: 19.200 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX045158.D

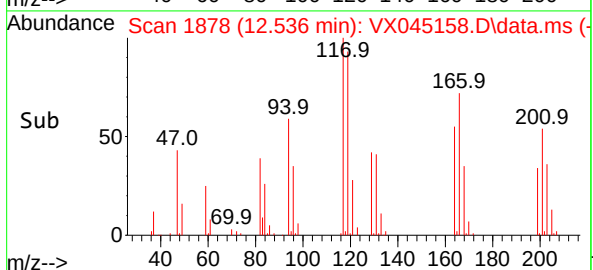
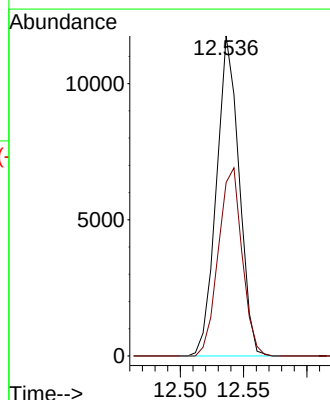
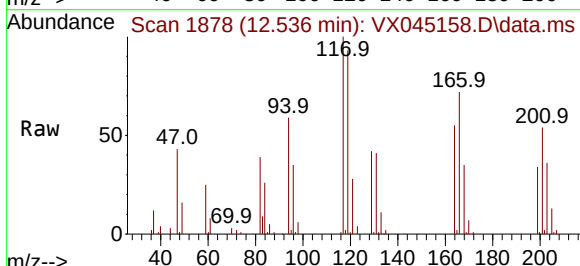
Acq: 06 Mar 2025 11:10

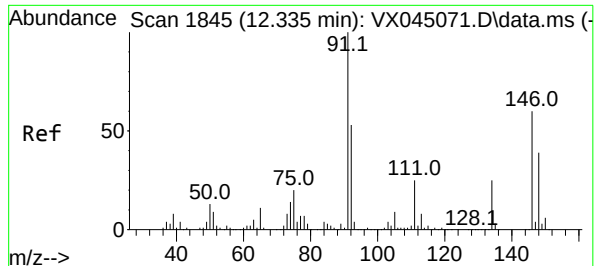
Tgt Ion:117 Resp: 14633

Ion Ratio Lower Upper

117 100

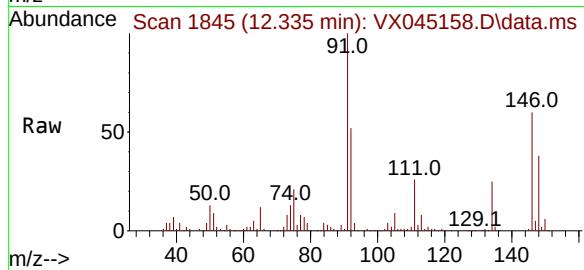
201 61.6 31.9 95.9





#91
1,2-Dichlorobenzene
Concen: 21.087 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

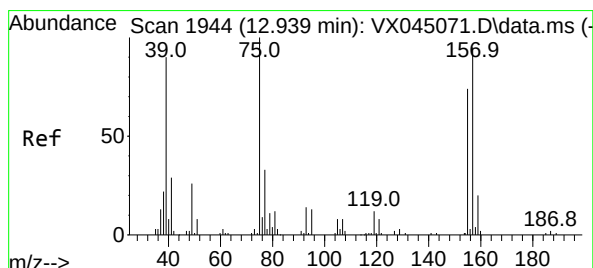
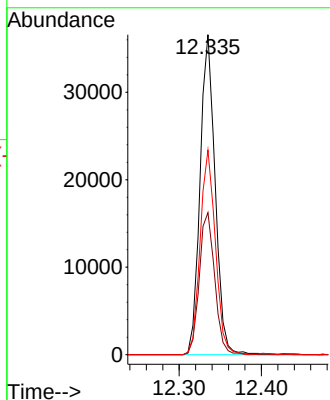
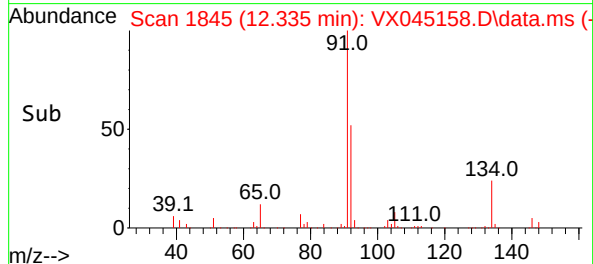
Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01



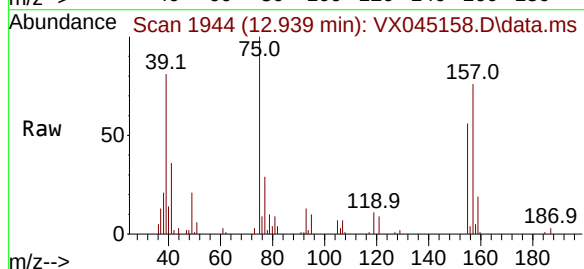
Tgt Ion:146 Resp: 4664
Ion Ratio Lower Upper
146 100
111 45.4 21.6 65.0
148 64.5 31.9 95.9

Manual Integrations
APPROVED

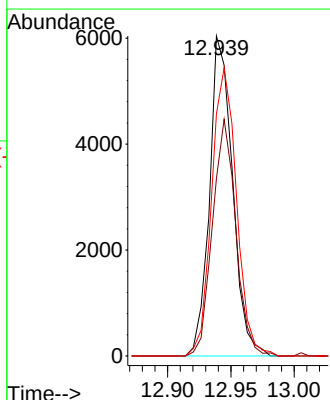
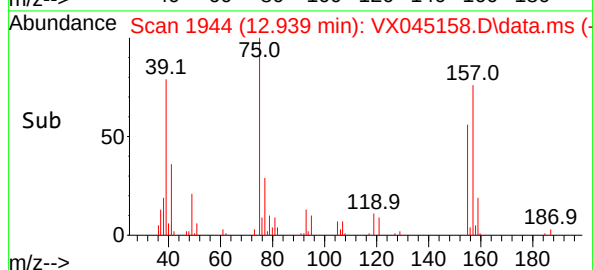
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

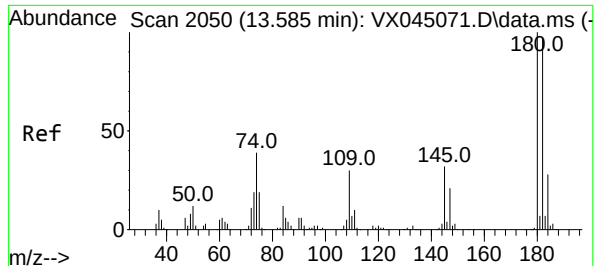


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.400 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10



Tgt Ion: 75 Resp: 7641
Ion Ratio Lower Upper
75 100
155 74.8 39.6 118.7
157 97.2 51.1 153.4





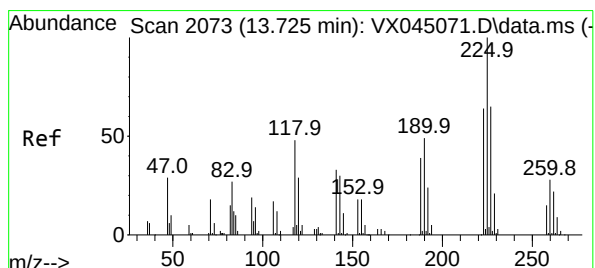
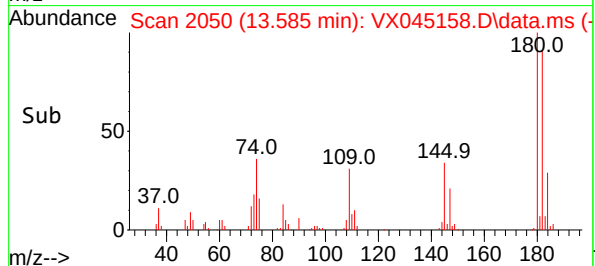
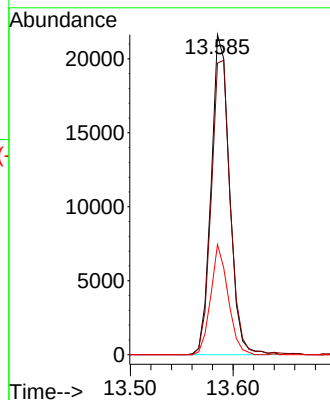
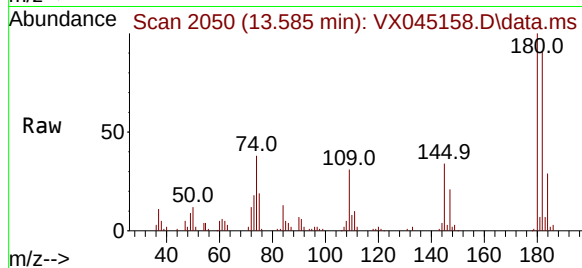
#93
1,2,4-Trichlorobenzene
Concen: 21.219 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Tgt Ion:180 Resp: 26728
Ion Ratio Lower Upper
180 100
182 96.0 47.3 141.9
145 32.6 16.3 48.9

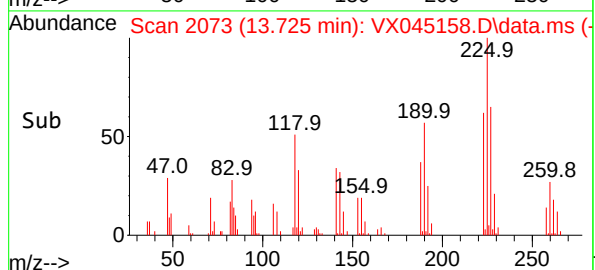
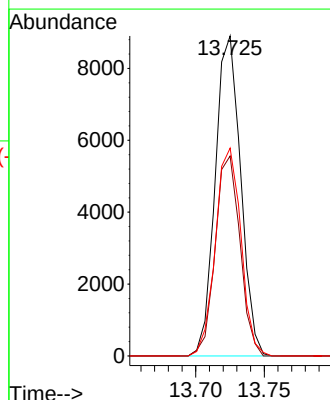
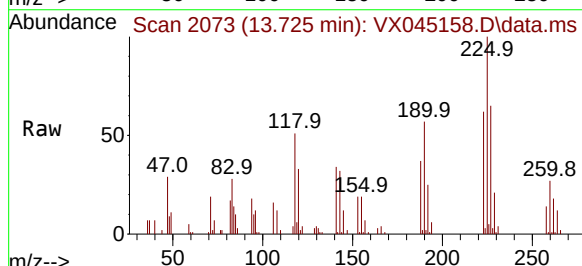
Manual Integrations
APPROVED

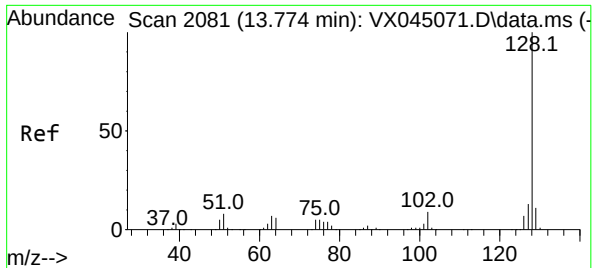
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#94
Hexachlorobutadiene
Concen: 22.224 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

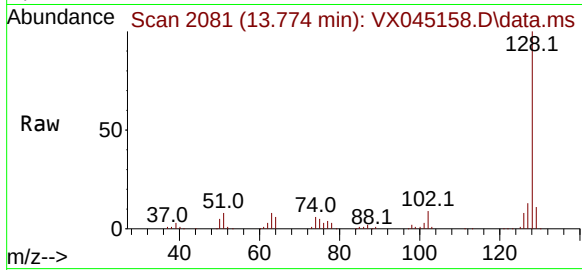
Tgt Ion:225 Resp: 11477
Ion Ratio Lower Upper
225 100
223 60.8 31.9 95.7
227 65.2 31.4 94.0





#95
Naphthalene
Concen: 21.254 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

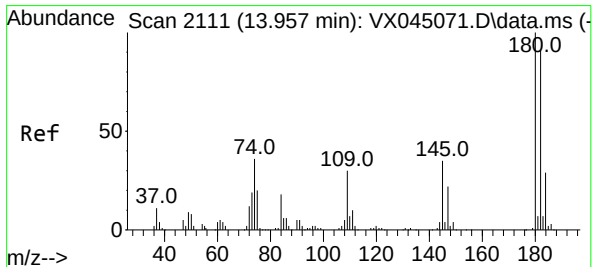
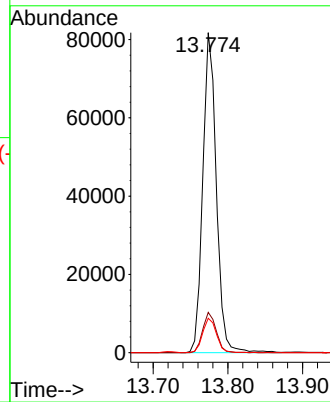
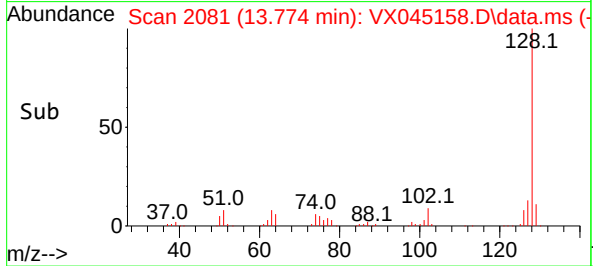
Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01



Tgt Ion:128 Resp: 102859
Ion Ratio Lower Upper
128 100
127 12.6 10.3 15.5
129 11.0 8.7 13.1

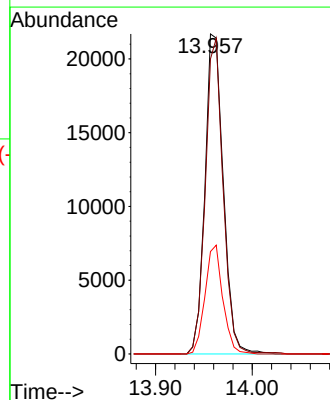
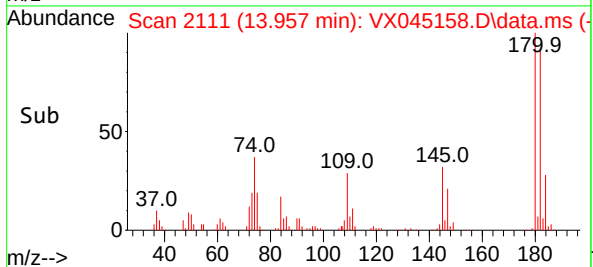
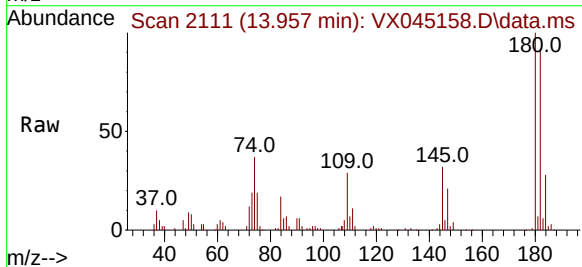
Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#96
1,2,3-Trichlorobenzene
Concen: 21.647 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:180 Resp: 28765
Ion Ratio Lower Upper
180 100
182 95.4 47.5 142.6
145 32.9 17.0 50.9



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/05/25
Client Sample ID:	BR-05-465-030525MS	SDG No.:	Q1488
Lab Sample ID:	Q1501-05MS	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045163.D	1		03/06/25 13:09	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	47.4		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	70.0		0.26	1.00	ug/L
78-93-3	2-Butanone	290		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	50.1		0.25	1.00	ug/L
67-66-3	Chloroform	50.2		0.26	1.00	ug/L
71-43-2	Benzene	51.7		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	51.6		0.24	1.00	ug/L
79-01-6	Trichloroethene	94.9		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	88.9		0.25	1.00	ug/L
108-90-7	Chlorobenzene	51.6		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.4		70 (74) - 130 (125)	103%	SPK: 50
1868-53-7	Dibromofluoromethane	0	*	70 (75) - 130 (124)	0%	SPK: 50
2037-26-5	Toluene-d8	53.2		70 (86) - 130 (113)	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.7		70 (77) - 130 (121)	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	101000	5.543			
540-36-3	1,4-Difluorobenzene	179000	6.757			
3114-55-4	Chlorobenzene-d5	156000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	67200	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045163.D
 Acq On : 06 Mar 2025 13:09
 Operator : JC/MD
 Sample : Q1501-05MS
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BR-05-465-030525MS

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/10/2025
 Supervised By : Mahesh Dadoda 03/10/2025

Quant Time: Mar 07 00:40:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.543	168	101112	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	179083	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	156313	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	67219	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	82650	51.389	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 102.780%	
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount	50.000	Range	75 - 124	Recovery	= 0.000%#	
50) Toluene-d8	8.646	98	230975	53.204	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 106.400%	
62) 4-Bromofluorobenzene	11.079	95	78735	54.731	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 109.460%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	60860	47.817	ug/l	98
3) Chloromethane	1.306	50	74253	47.672	ug/l	95
4) Vinyl Chloride	1.373	62	73181	47.362	ug/l	96
5) Bromomethane	1.593	94	28933	47.633	ug/l	96
6) Chloroethane	1.666	64	39700	55.703	ug/l	98
7) Trichlorofluoromethane	1.873	101	103012	50.360	ug/l	100
8) Diethyl Ether	2.129	74	36356	45.441	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.318	101	60302	51.313	ug/l	99
10) Methyl Iodide	2.440	142	78618	53.532	ug/l	98
11) Tert butyl alcohol	2.983	59	59207	194.348	ug/l	100
12) 1,1-Dichloroethene	2.312	96	86935	69.970	ug/l	94
13) Acrolein	2.239	56	17262	49.018	ug/l	98
14) Allyl chloride	2.654	41	112939	51.066	ug/l	97
15) Acrylonitrile	3.062	53	199269	244.058	ug/l	99
16) Acetone	2.385	43	266010	356.478	ug/l	100
17) Carbon Disulfide	2.501	76	102631	31.014	ug/l	97
18) Methyl Acetate	2.708	43	9884	5.506	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	208471	50.012	ug/l	99
20) Methylene Chloride	2.782	84	70867	47.942	ug/l	97
21) trans-1,2-Dichloroethene	3.086	96	62346	50.793	ug/l	96
22) Diisopropyl ether	3.763	45	220358	48.991	ug/l #	86
24) 1,1-Dichloroethane	3.605	63	126603	50.224	ug/l	99
25) 2-Butanone	4.556	43	325439	289.732	ug/l	99
26) 2,2-Dichloropropane	4.470	77	80790	68.329	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	76731	50.639	ug/l	96
28) Bromochloromethane	4.897	49	62516	52.031	ug/l	99
29) Tetrahydrofuran	5.007	42	191259	253.553	ug/l	99
30) Chloroform	5.092	83	125714	50.192	ug/l	97
31) Cyclohexane	5.464	56	109491	50.038	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	100914	49.885	ug/l	98
36) 1,1-Dichloropropene	5.684	75	83195	50.660	ug/l	98
38) Carbon Tetrachloride	5.671	117	83458	50.057	ug/l	99
39) Methylcyclohexane	7.378	83	103797	52.749	ug/l	99
40) Benzene	6.031	78	268012	51.682	ug/l	99
41) Methacrylonitrile	4.915	41	62416	54.549	ug/l	99
42) 1,2-Dichloroethane	6.080	62	96342	51.592	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045163.D
 Acq On : 06 Mar 2025 13:09
 Operator : JC/MD
 Sample : Q1501-05MS
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BR-05-465-030525MS

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/10/2025
 Supervised By : Mahesh Dadoda 03/10/2025

Quant Time: Mar 07 00:40:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Trichloroethene	7.122	130	115549	94.894	ug/l	99
45) 1,2-Dichloropropane	7.427	63	68277	51.209	ug/l	99
46) Dibromomethane	7.580	93	49559	52.588	ug/l	98
47) Bromodichloromethane	7.817	83	76414	41.338	ug/l	97
49) 1,4-Dioxane	7.659	88	30248	913.440	ug/l	96
51) 4-Methyl-2-Pentanone	8.573	43	568444	270.554	ug/l	100
52) Toluene	8.713	92	188456	61.939	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	84014	54.366	ug/l	97
54) cis-1,3-Dichloropropene	8.360	75	96507	53.555	ug/l	95
55) 1,1,2-Trichloroethane	9.152	97	29577	23.613	ug/l	95
57) 1,3-Dichloropropane	9.305	76	111722	51.541	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	248600	267.664	ug/l	99
59) 2-Hexanone	9.427	43	417312	274.135	ug/l	99
60) Dibromochloromethane	9.518	129	60250	46.004	ug/l	99
61) 1,2-Dibromoethane	9.610	107	64009	51.190	ug/l	98
64) Tetrachloroethene	9.268	164	89022	88.922	ug/l	97
65) Chlorobenzene	10.079	112	170804	51.641	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.158	131	50008	45.401	ug/l	98
67) Ethyl Benzene	10.189	91	306222	53.134	ug/l	99
68) m/p-Xylenes	10.299	106	226689	107.448	ug/l	100
69) o-Xylene	10.640	106	111494	52.398	ug/l	100
70) Styrene	10.652	104	186579	54.191	ug/l	100
71) Bromoform	10.798	173	40798	49.118	ug/l #	99
73) Isopropylbenzene	10.963	105	285788	54.471	ug/l	99
76) 1,2,3-Trichloropropane	11.237	75	75260m	48.104	ug/l	
77) Bromobenzene	11.195	156	64652	52.227	ug/l	99
78) n-propylbenzene	11.304	91	334012	56.356	ug/l	99
79) 2-Chlorotoluene	11.359	91	196885	52.161	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	232590	54.826	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	23264	50.887	ug/l	92
82) 4-Chlorotoluene	11.451	91	222235	54.023	ug/l	100
83) tert-Butylbenzene	11.713	119	200520	46.003	ug/l	90
84) 1,2,4-Trimethylbenzene	11.750	105	233112	54.611	ug/l	100
85) sec-Butylbenzene	11.890	105	291621	55.852	ug/l	99
86) p-Isopropyltoluene	12.006	119	234622	55.603	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	117796	53.341	ug/l	99
88) 1,4-Dichlorobenzene	12.042	146	115251	51.585	ug/l	100
89) n-Butylbenzene	12.329	91	210010	57.787	ug/l	99
90) Hexachloroethane	12.536	117	38828	50.874	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	114665	51.761	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.938	75	9203	24.536	ug/l	95
93) 1,2,4-Trichlorobenzene	13.585	180	68791	54.535	ug/l	100
94) Hexachlorobutadiene	13.725	225	28043	54.226	ug/l	99
95) Naphthalene	13.774	128	265803	54.845	ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	70129	52.700	ug/l	97

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

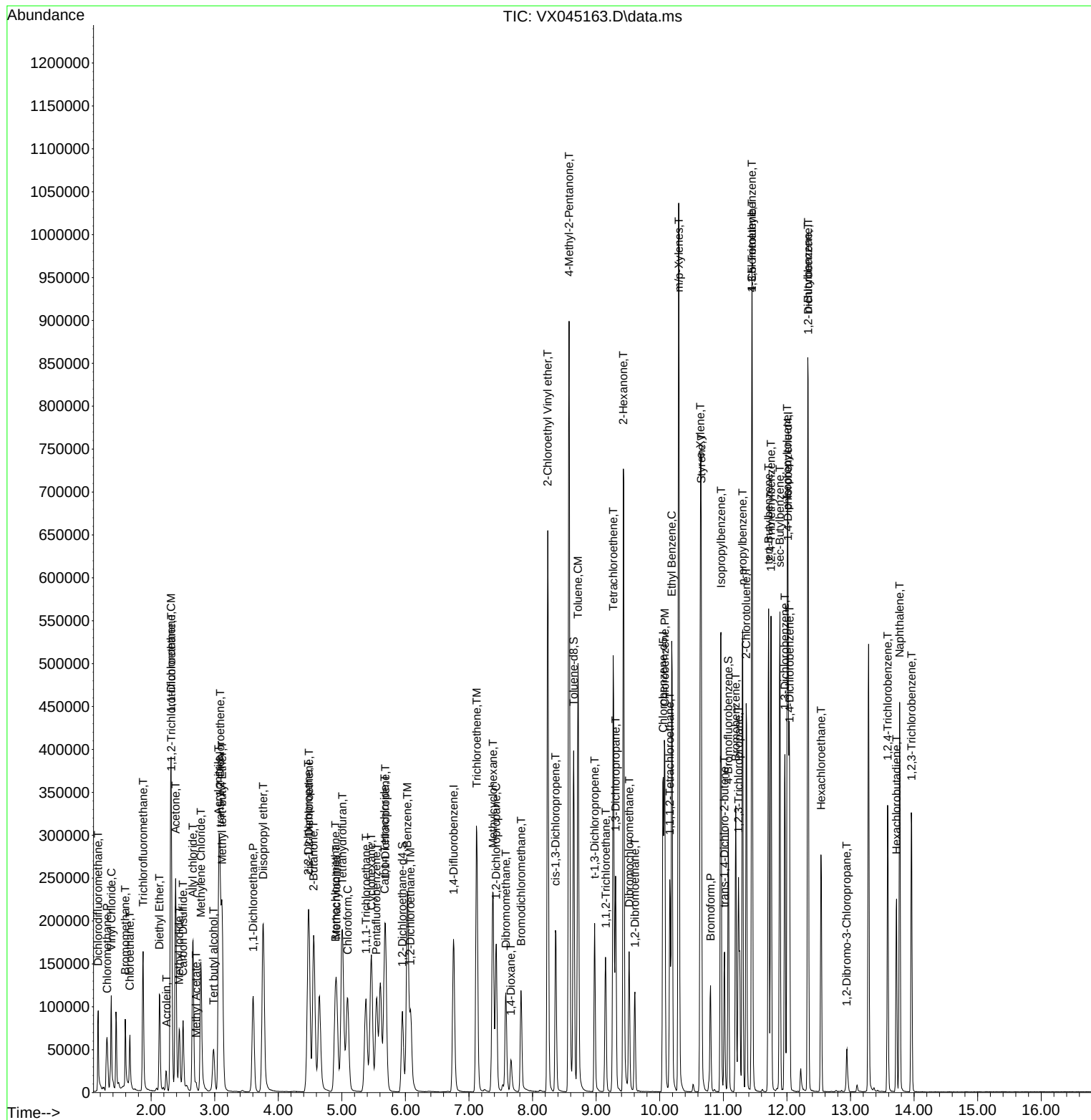
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045163.D
Acq On    : 06 Mar 2025 13:09
Operator  : JC/MD
Sample    : Q1501-05MS
Misc      : 5.0mL/MSVOA_X/WATER
ALS Vial  : 11 Sample Multiplier: 1
```

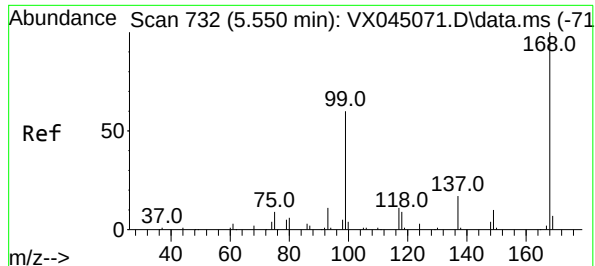
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Quant Time: Mar 07 00:40:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025





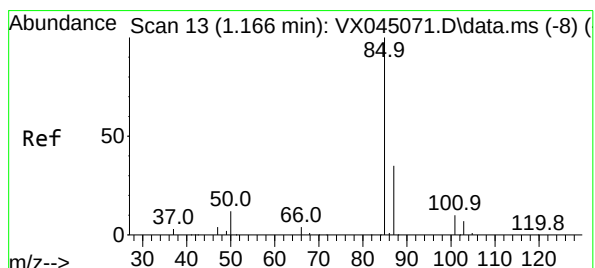
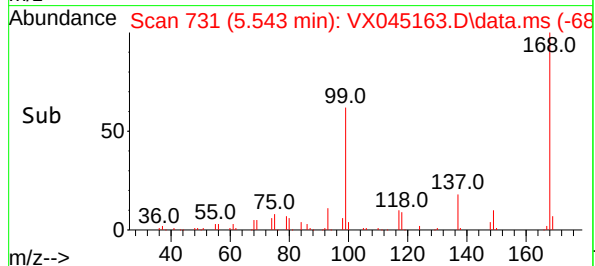
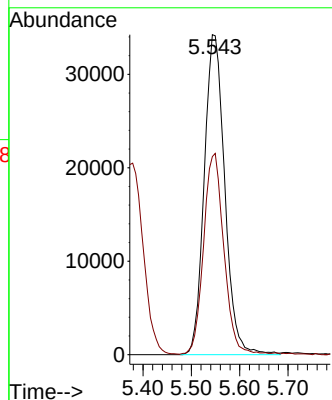
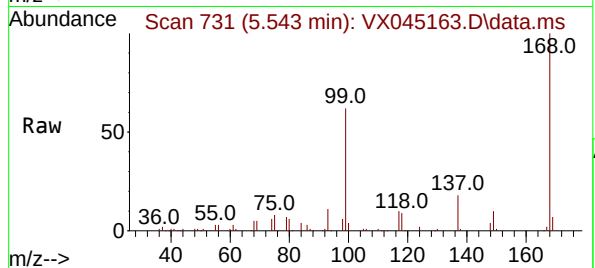
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 71
Delta R.T. -0.007 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Tgt Ion:168 Resp: 10111
Ion Ratio Lower Upper
168 100
99 61.7 48.2 72.4

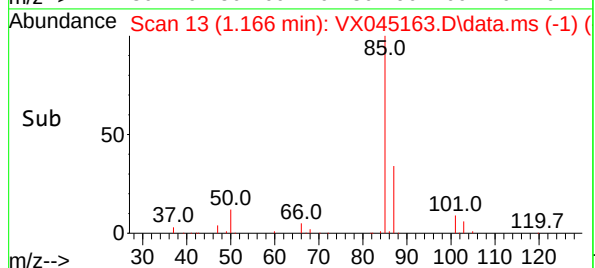
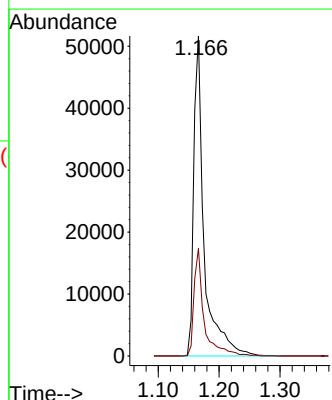
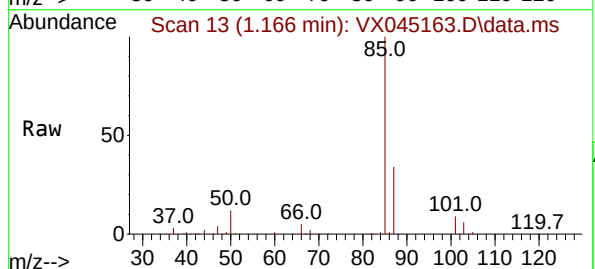
Manual Integrations
APPROVED

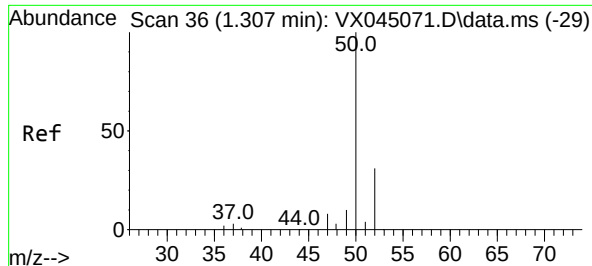
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#2
Dichlorodifluoromethane
Concen: 47.817 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 85 Resp: 60860
Ion Ratio Lower Upper
85 100
87 33.6 17.4 52.3





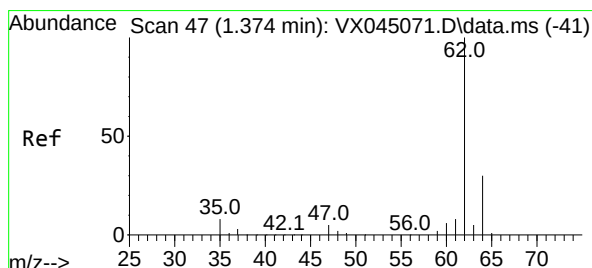
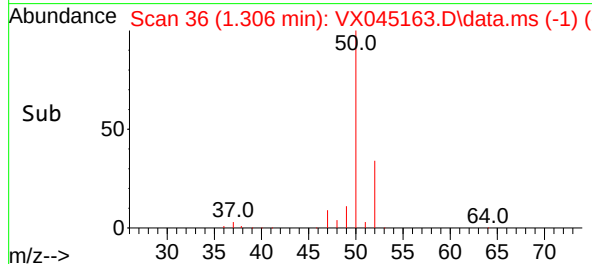
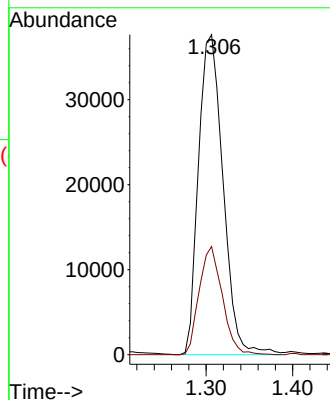
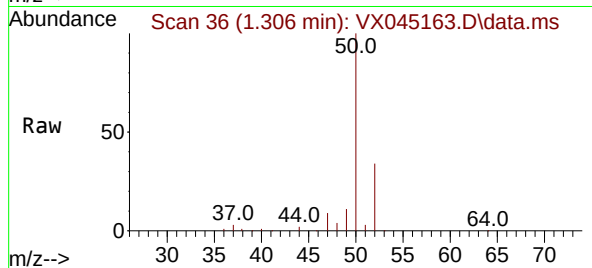
#3
Chloromethane
Concen: 47.672 ug/l
RT: 1.306 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Tgt Ion: 50 Resp: 7425
Ion Ratio Lower Upper
50 100
52 33.8 25.0 37.4

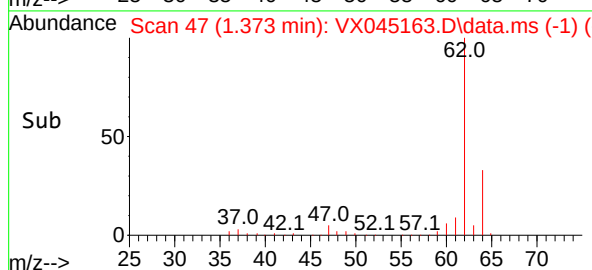
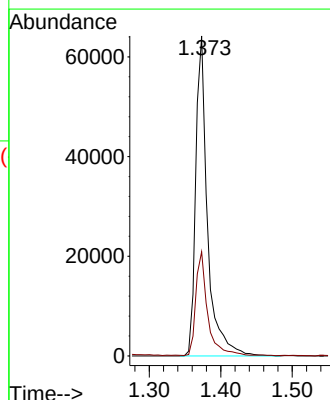
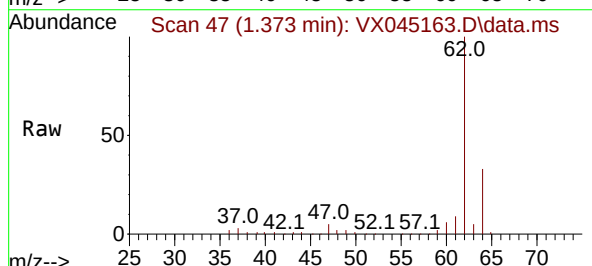
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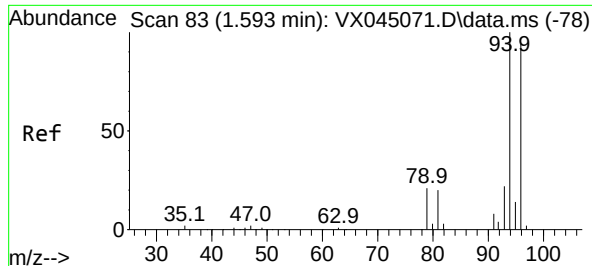
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#4
Vinyl Chloride
Concen: 47.362 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 62 Resp: 73181
Ion Ratio Lower Upper
62 100
64 32.4 24.3 36.5





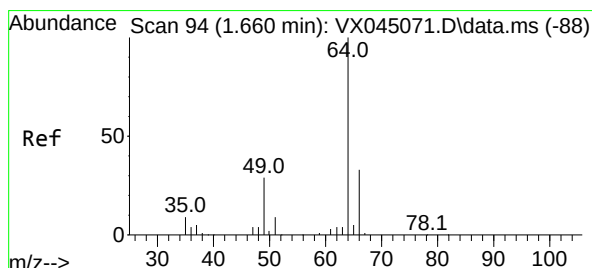
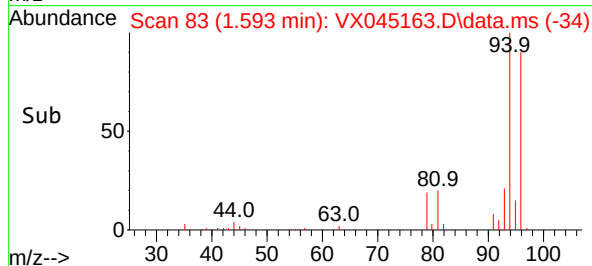
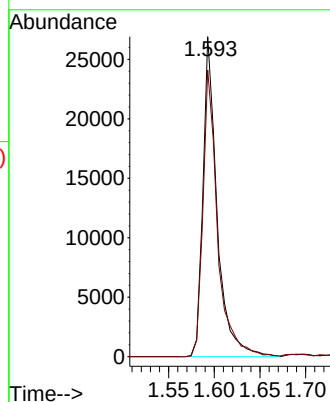
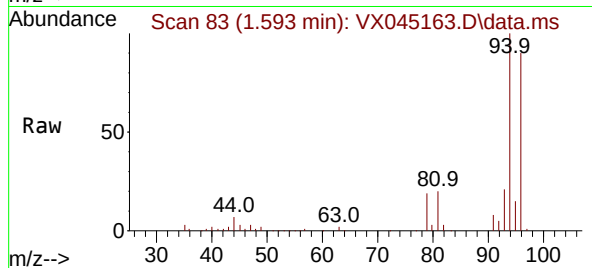
#5
Bromomethane
Concen: 47.633 ug/l
RT: 1.593 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Tgt Ion: 94 Resp: 2893
Ion Ratio Lower Upper
94 100
96 89.6 75.0 112.4

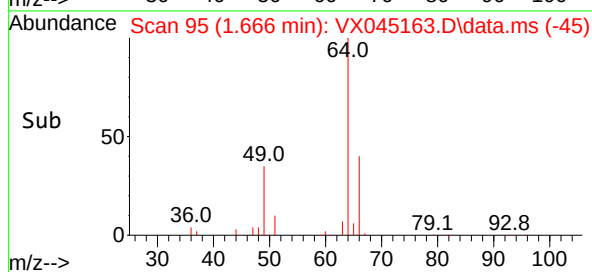
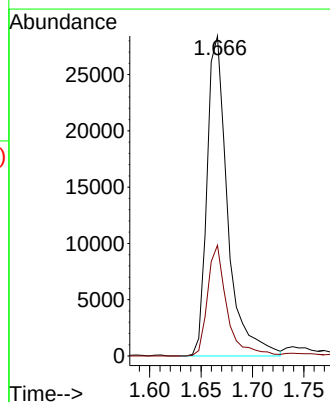
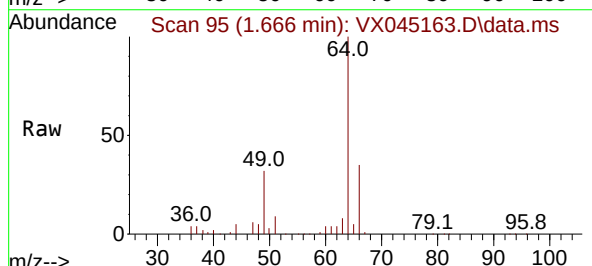
Manual Integrations
APPROVED

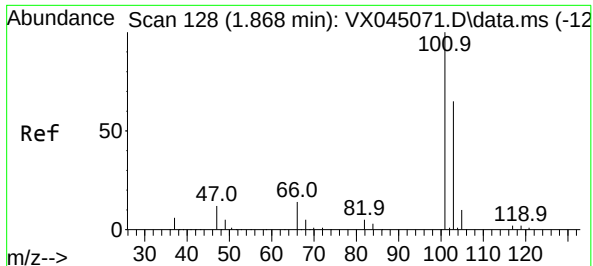
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#6
Chloroethane
Concen: 55.703 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 64 Resp: 39700
Ion Ratio Lower Upper
64 100
66 34.6 26.7 40.1





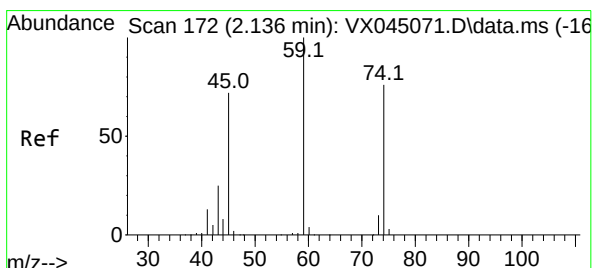
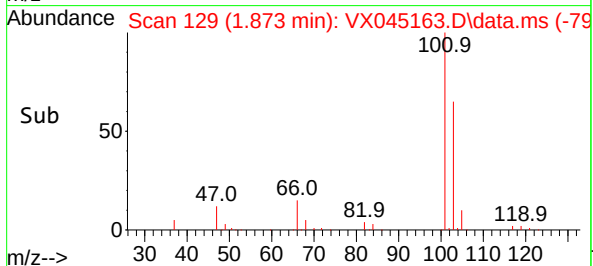
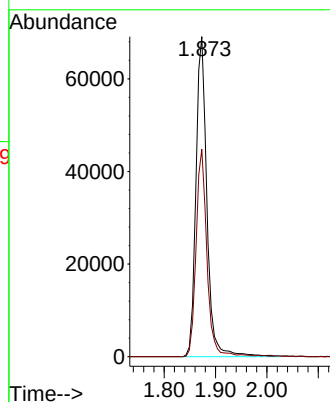
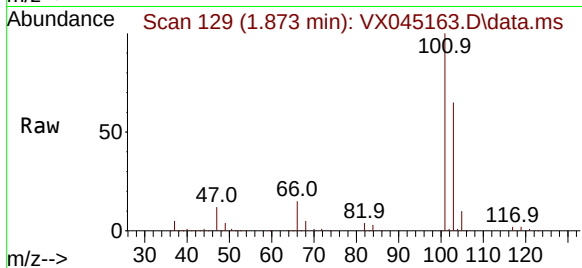
#7
Trichlorofluoromethane
Concen: 50.360 ug/l
RT: 1.873 min Scan# 101
Delta R.T. 0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Tgt Ion:101 Resp: 10301
Ion Ratio Lower Upper
101 100
103 64.8 52.1 78.1

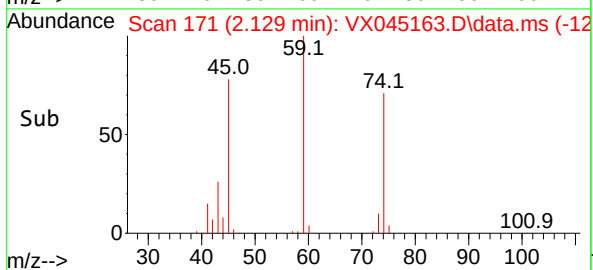
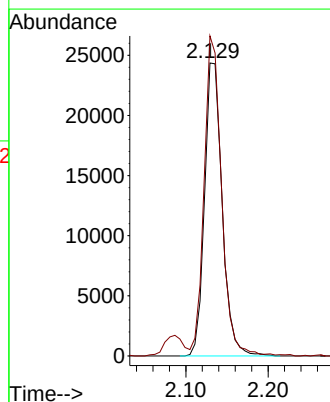
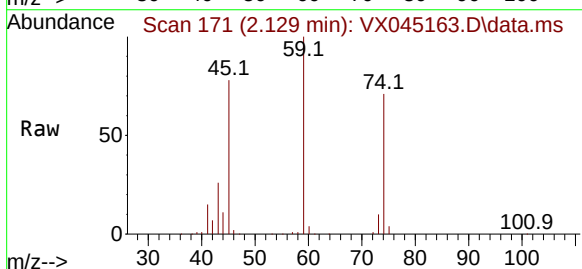
Manual Integrations
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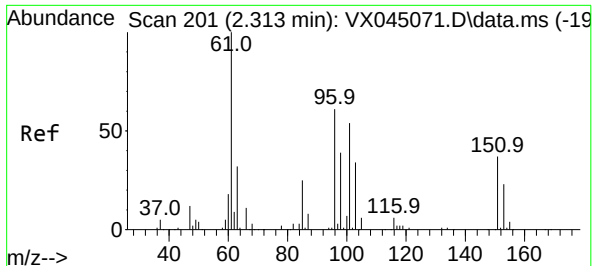
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#8
Diethyl Ether
Concen: 45.441 ug/l
RT: 2.129 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 74 Resp: 36356
Ion Ratio Lower Upper
74 100
45 107.9 51.5 154.5





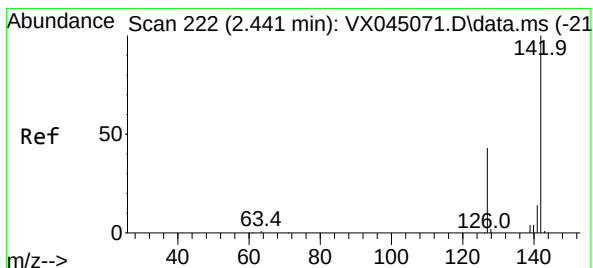
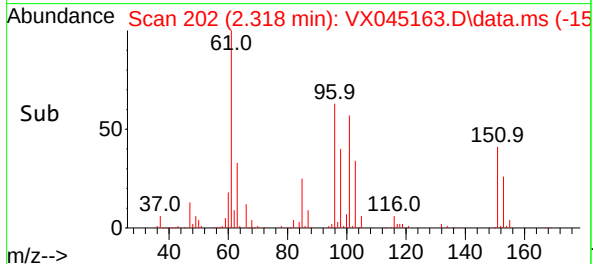
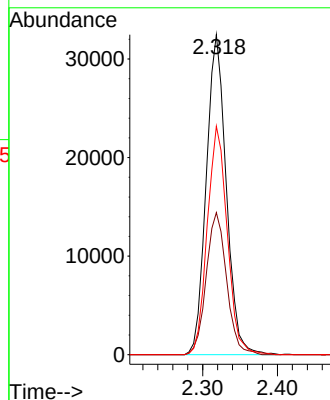
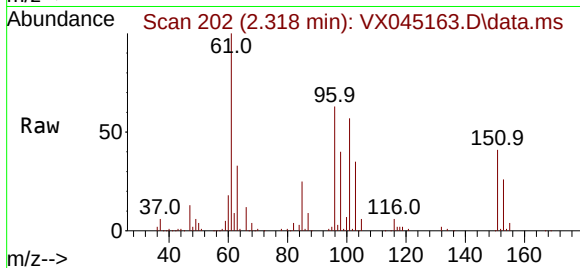
#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.313 ug/l
RT: 2.318 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Tgt Ion:101 Resp: 60302
Ion Ratio Lower Upper
101 100
85 45.2 36.2 54.4
151 71.5 56.4 84.6

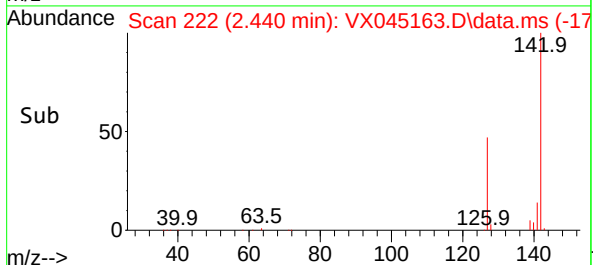
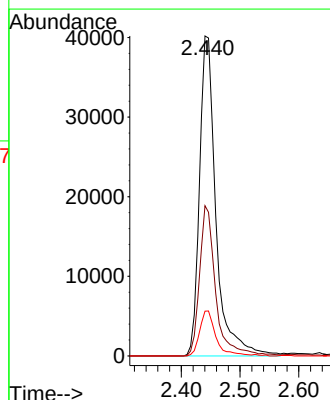
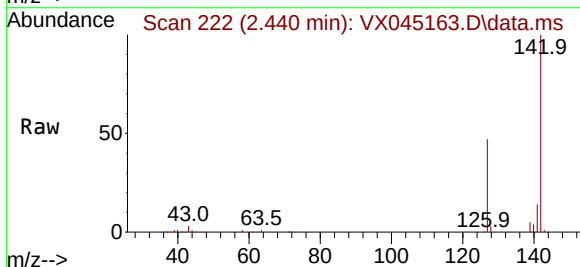
Manual Integrations
APPROVED

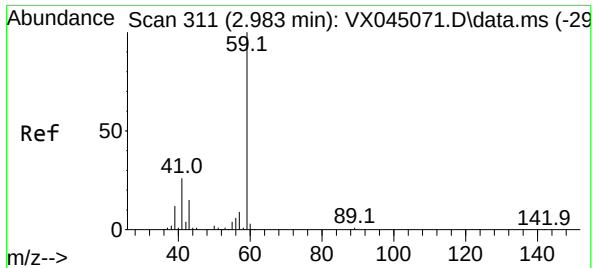
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#10
Methyl Iodide
Concen: 53.532 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:142 Resp: 78618
Ion Ratio Lower Upper
142 100
127 45.9 35.4 53.2
141 14.0 11.6 17.4





#11

Tert butyl alcohol

Concen: 194.348 ug/l

RT: 2.983 min Scan# 311

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS

Tgt Ion: 59 Resp: 5920

Ion Ratio Lower Upper

59 100

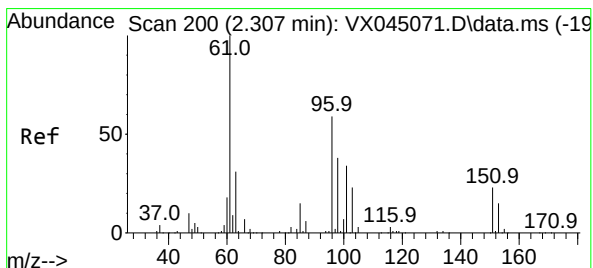
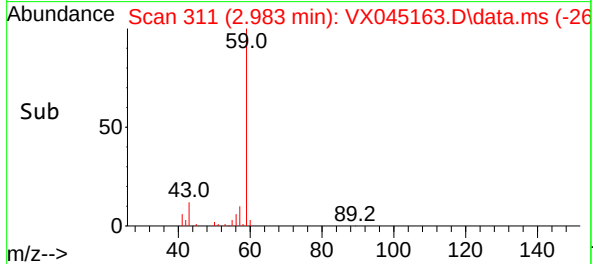
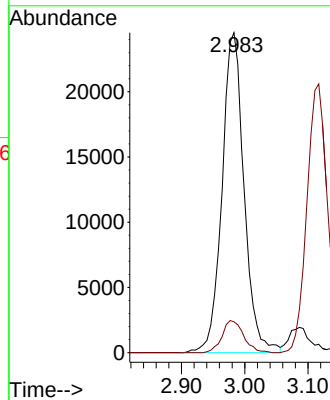
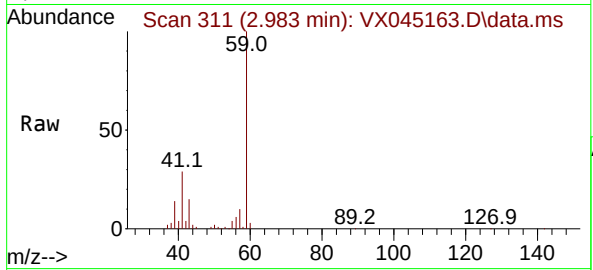
57 9.9 7.8 11.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#12

1,1-Dichloroethene

Concen: 69.970 ug/l

RT: 2.312 min Scan# 201

Delta R.T. 0.006 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

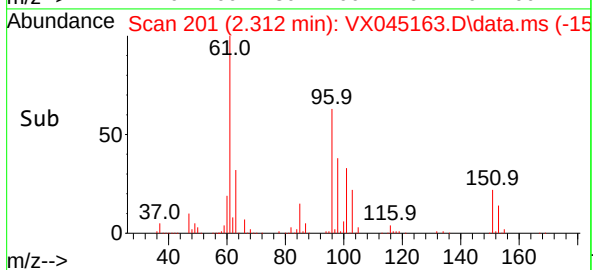
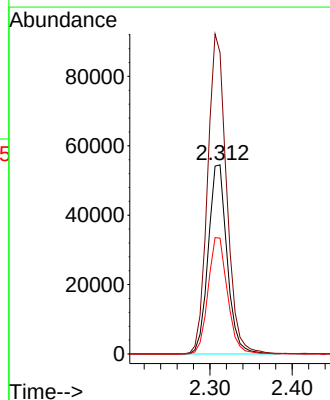
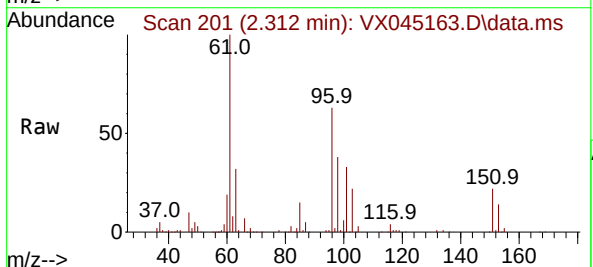
Tgt Ion: 96 Resp: 86935

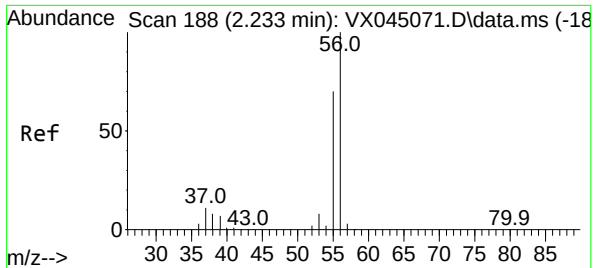
Ion Ratio Lower Upper

96 100

61 159.3 134.6 202.0

98 61.3 51.0 76.6





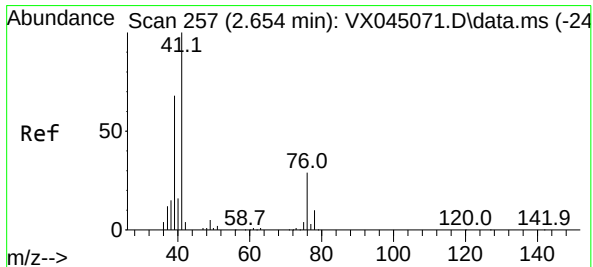
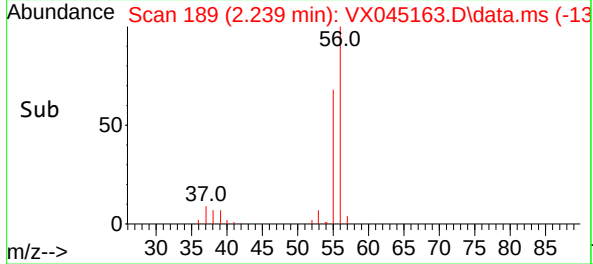
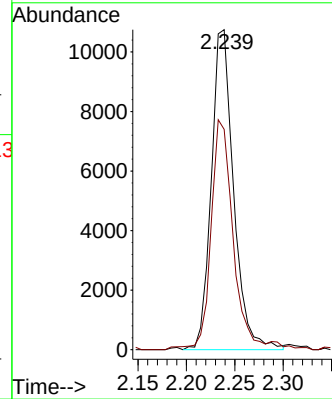
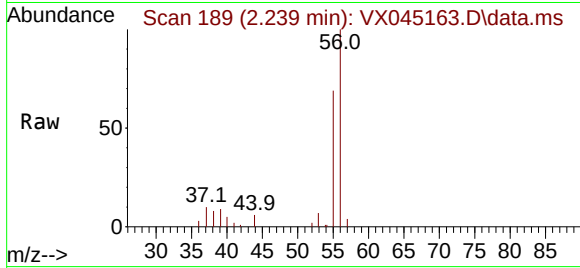
#13
Acrolein
Concen: 49.018 ug/l
RT: 2.239 min Scan# 188
Delta R.T. 0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Tgt Ion: 56 Resp: 17262
Ion Ratio Lower Upper
56 100
55 72.4 56.2 84.4

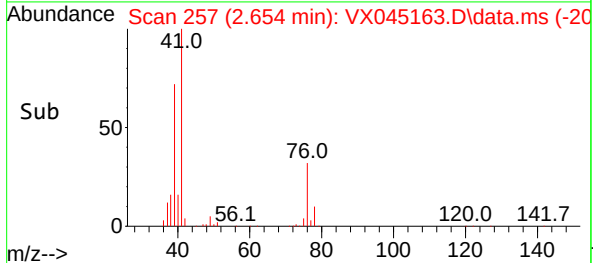
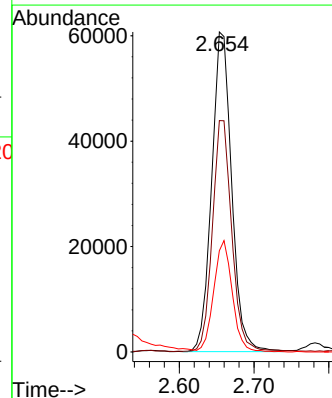
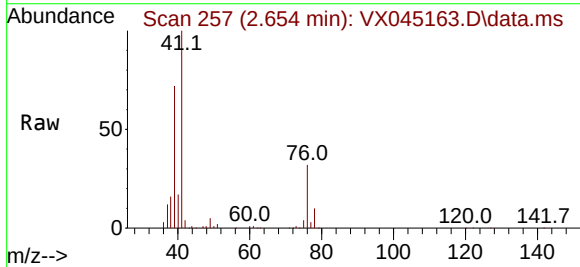
Manual Integrations
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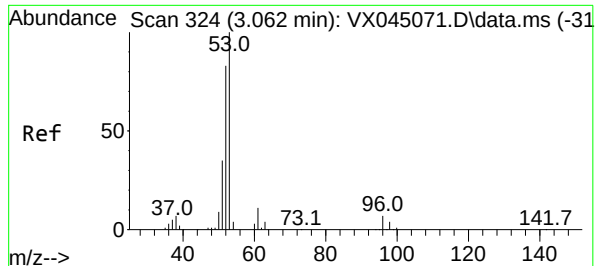
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#14
Allyl chloride
Concen: 51.066 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 41 Resp: 112939
Ion Ratio Lower Upper
41 100
39 69.9 53.8 80.8
76 32.4 25.2 37.8





#15

Acrylonitrile

Concen: 244.058 ug/l

RT: 3.062 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS

Tgt Ion: 53 Resp: 199269

Ion Ratio Lower Upper

53 100

52 83.5 66.2 99.2

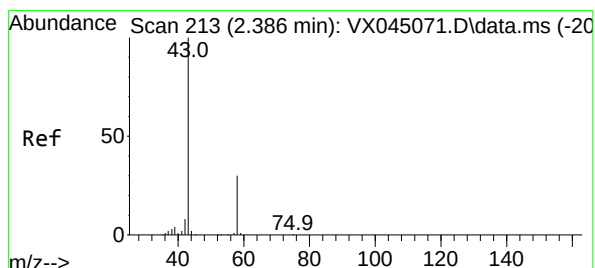
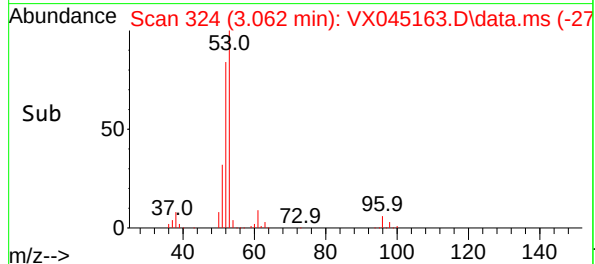
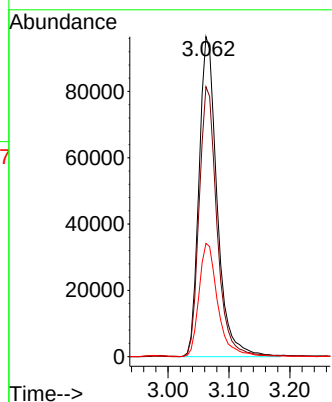
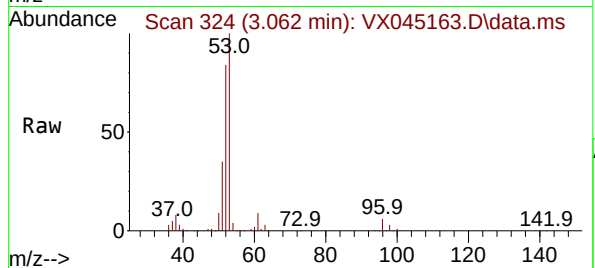
51 37.1 29.0 43.4

Manual Integrations

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Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#16

Acetone

Concen: 356.478 ug/l

RT: 2.385 min Scan# 213

Delta R.T. -0.000 min

Lab File: VX045163.D

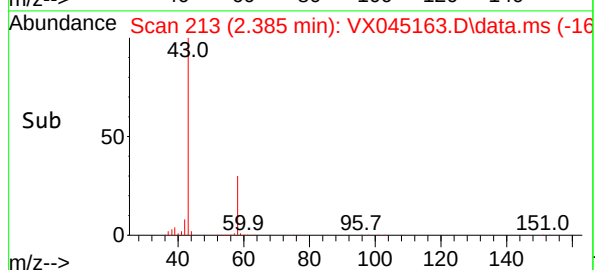
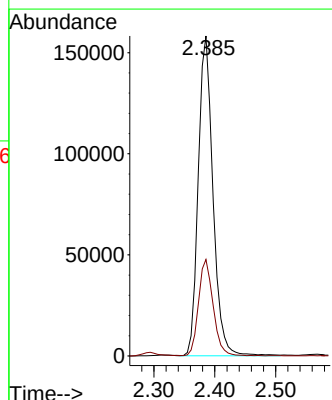
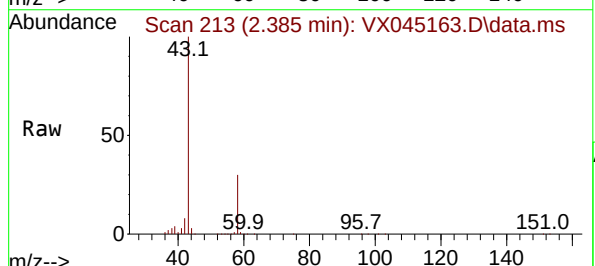
Acq: 06 Mar 2025 13:09

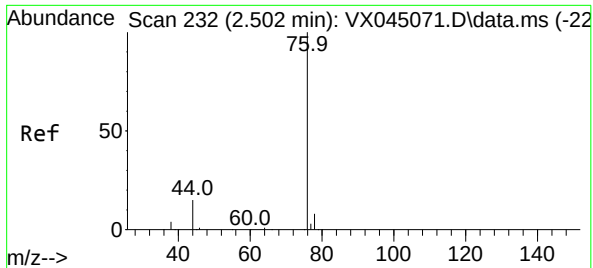
Tgt Ion: 43 Resp: 266010

Ion Ratio Lower Upper

43 100

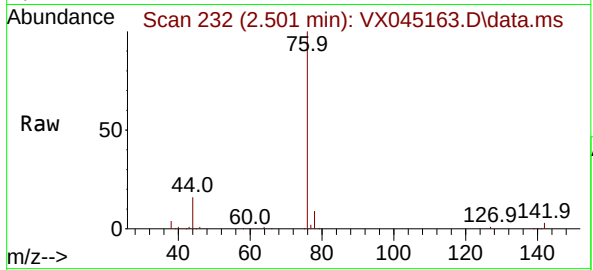
58 30.1 24.2 36.4





#17
Carbon Disulfide
Concen: 31.014 ug/l
RT: 2.501 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

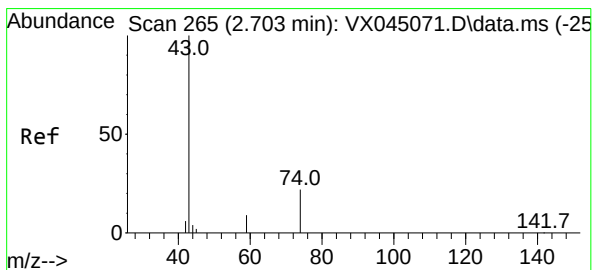
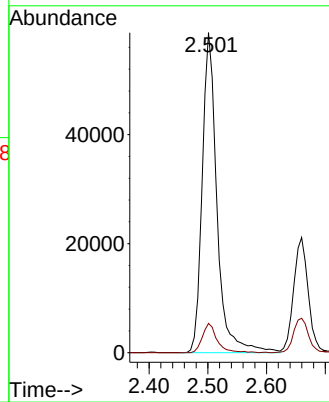
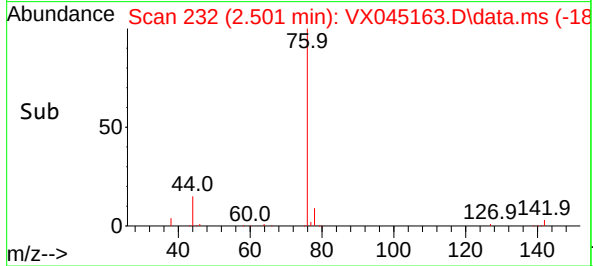
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS



Tgt Ion: 76 Resp: 10263
Ion Ratio Lower Upper
76 100
78 9.1 6.6 9.8

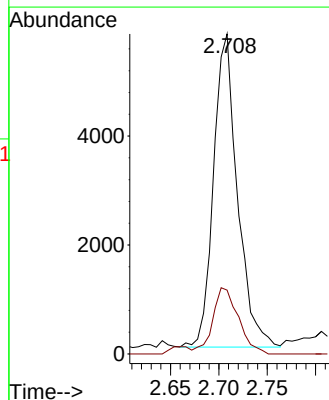
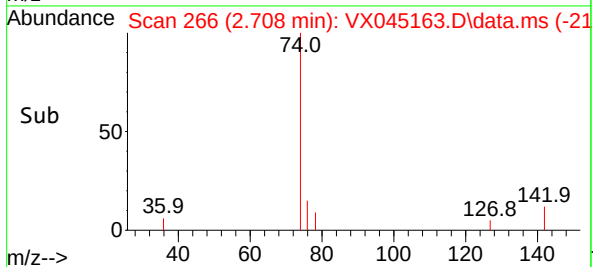
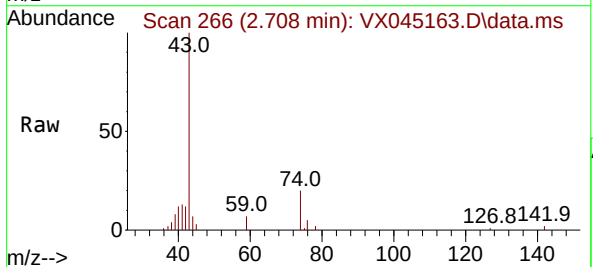
Manual Integrations
APPROVED

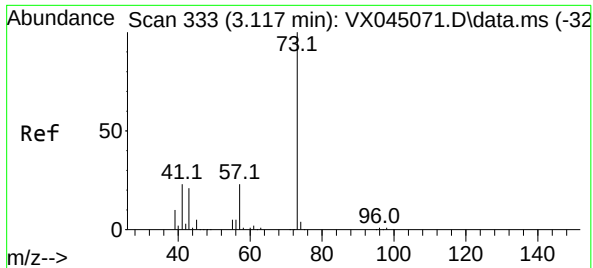
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#18
Methyl Acetate
Concen: 5.506 ug/l
RT: 2.708 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 43 Resp: 9884
Ion Ratio Lower Upper
43 100
74 22.7 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 50.012 ug/l

RT: 3.117 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS

Tgt Ion: 73 Resp: 20847

Ion Ratio Lower Upper

73 100

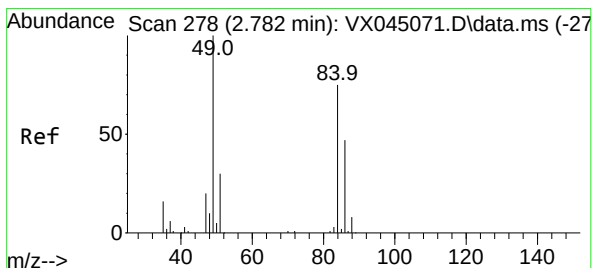
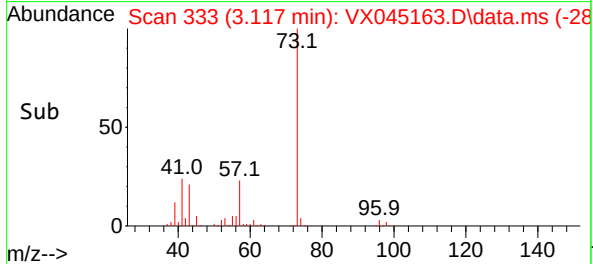
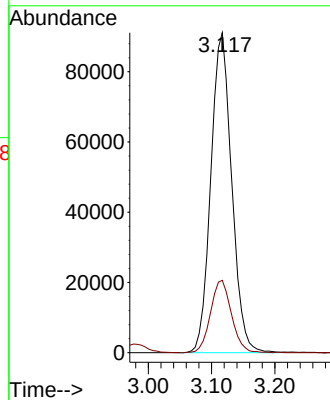
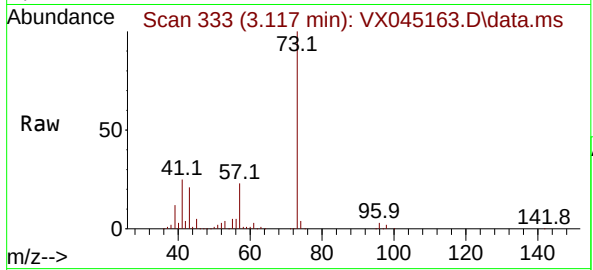
57 22.6 18.5 27.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#20

Methylene Chloride

Concen: 47.942 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Tgt Ion: 84 Resp: 70867

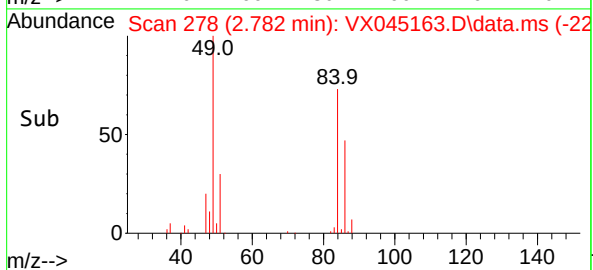
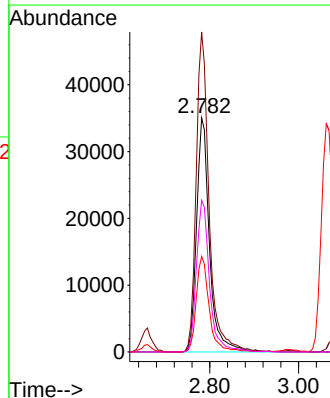
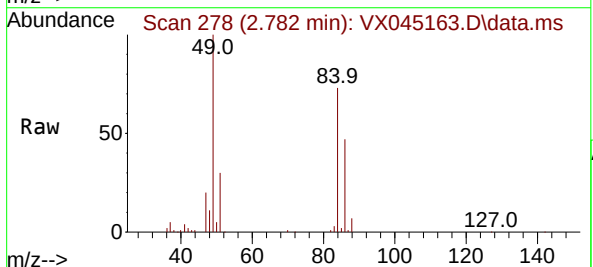
Ion Ratio Lower Upper

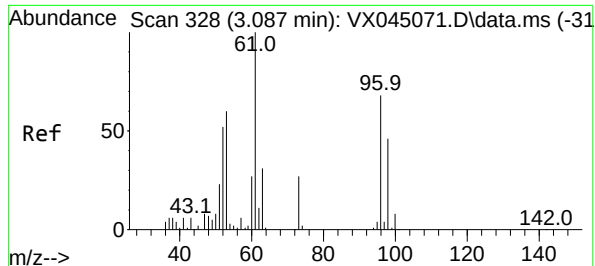
84 100

49 136.7 106.5 159.7

51 40.8 32.1 48.1

86 64.8 50.0 75.0





#21

trans-1,2-Dichloroethene

Concen: 50.793 ug/l

RT: 3.086 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS

Tgt Ion: 96 Resp: 62340

Ion Ratio Lower Upper

96 100

61 140.3 117.0 175.4

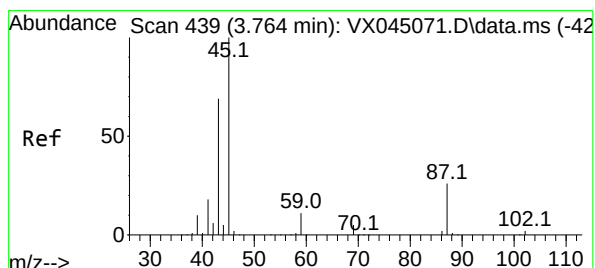
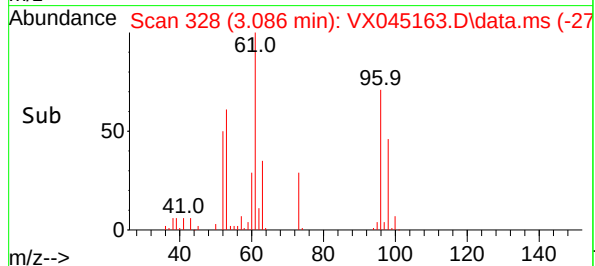
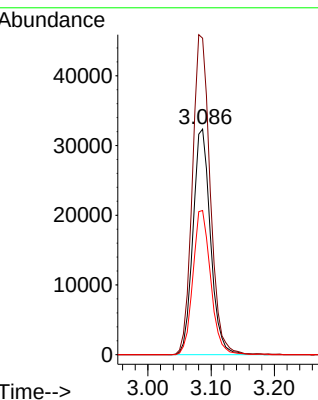
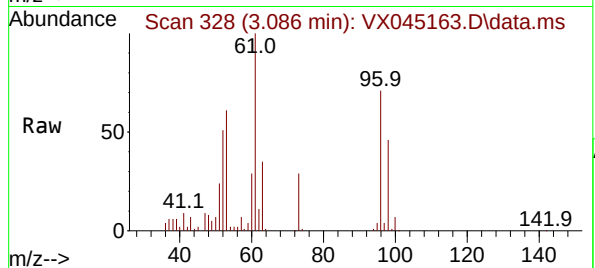
98 63.9 53.4 80.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#22

Diisopropyl ether

Concen: 48.991 ug/l

RT: 3.763 min Scan# 439

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Tgt Ion: 45 Resp: 220358

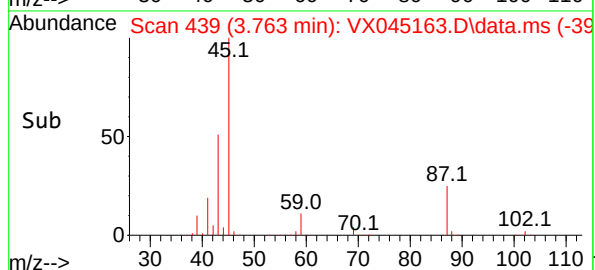
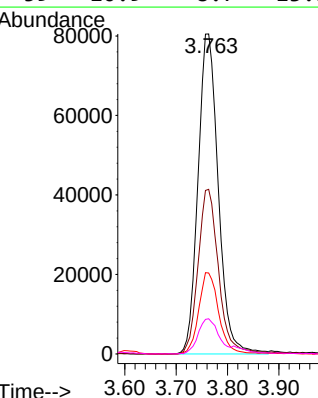
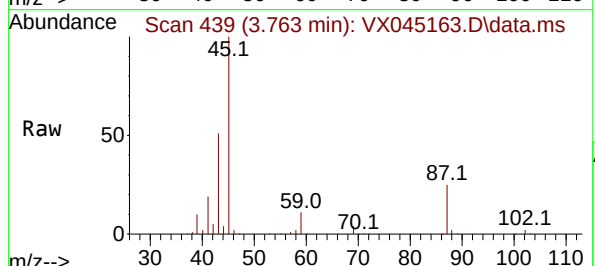
Ion Ratio Lower Upper

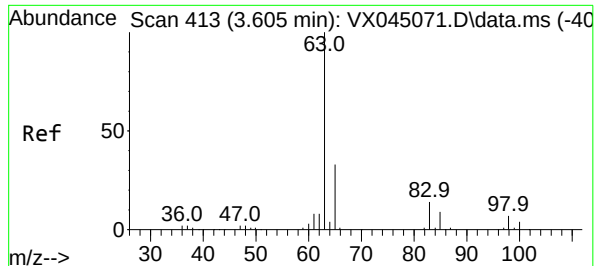
45 100

43 51.5 54.9 82.3#

87 25.3 21.0 31.4

59 10.9 8.7 13.1





#24

1,1-Dichloroethane

Concen: 50.224 ug/l

RT: 3.605 min Scan# 41

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS

Tgt Ion: 63 Resp: 12660

Ion Ratio Lower Upper

63 100

98 7.3 3.4 10.2

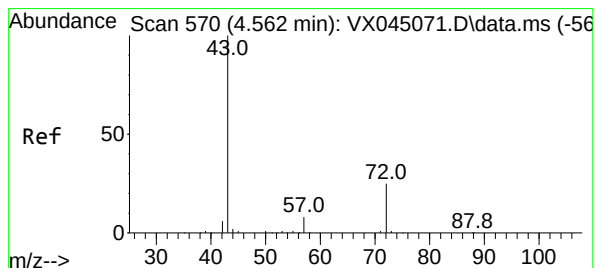
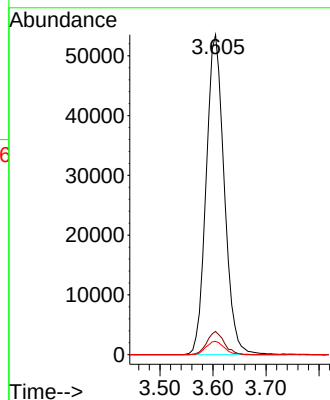
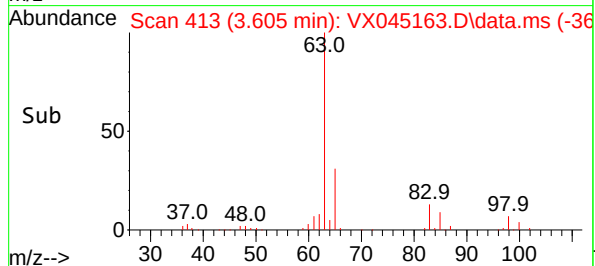
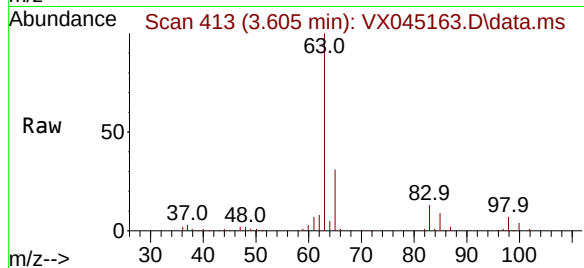
100 4.1 2.1 6.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#25

2-Butanone

Concen: 289.732 ug/l

RT: 4.556 min Scan# 569

Delta R.T. -0.006 min

Lab File: VX045163.D

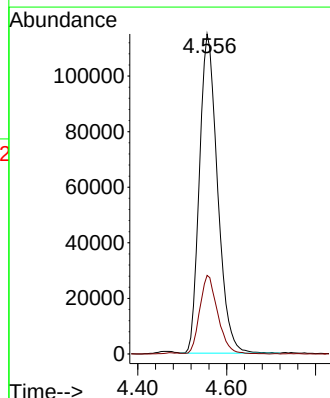
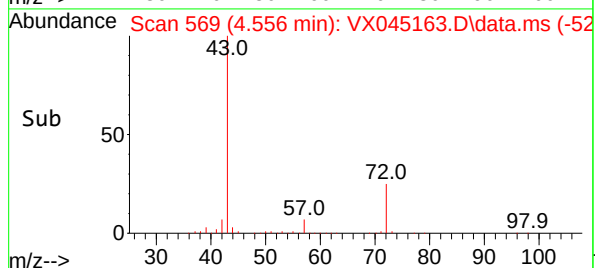
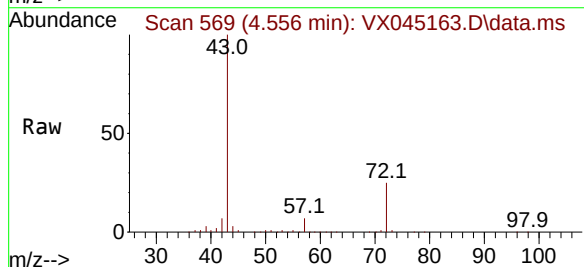
Acq: 06 Mar 2025 13:09

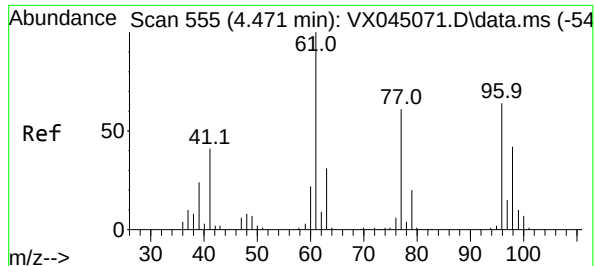
Tgt Ion: 43 Resp: 325439

Ion Ratio Lower Upper

43 100

72 24.6 20.0 30.0





#26

2,2-Dichloropropane

Concen: 68.329 ug/l

RT: 4.470 min Scan# 555

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS

Tgt Ion: 77 Resp: 80790

Ion Ratio Lower Upper

77 100

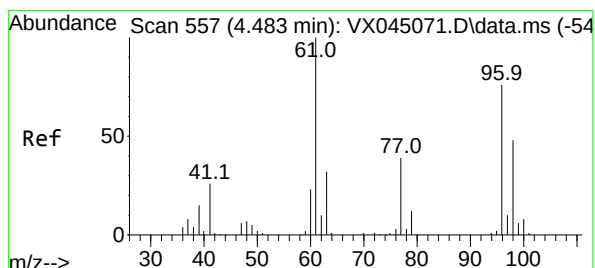
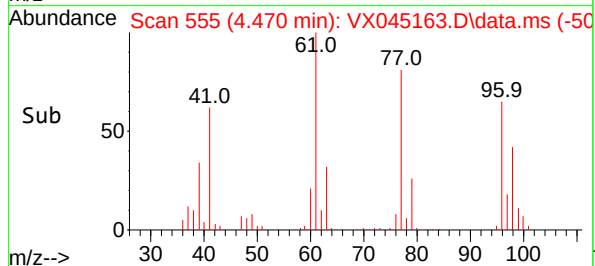
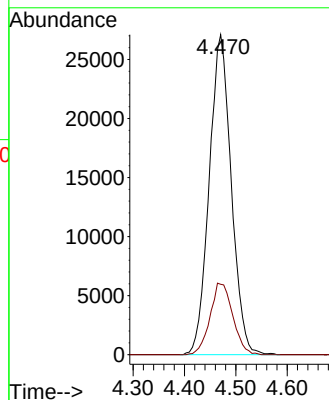
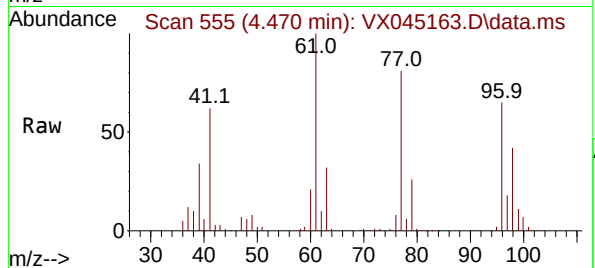
97 23.0 12.4 37.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#27

cis-1,2-Dichloroethene

Concen: 50.639 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

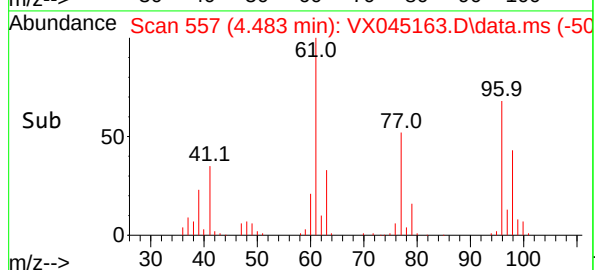
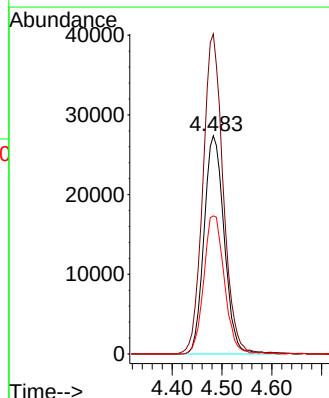
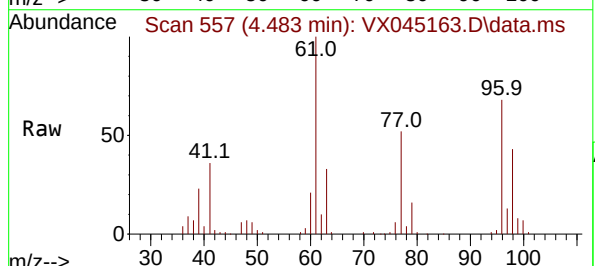
Tgt Ion: 96 Resp: 76731

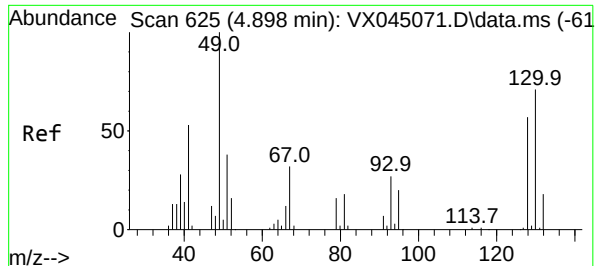
Ion Ratio Lower Upper

96 100

61 147.6 0.0 283.2

98 64.4 0.0 128.0





#28

Bromochloromethane

Concen: 52.031 ug/l

RT: 4.897 min Scan# 61

Delta R.T. -0.000 min

Lab File: VX045163.D

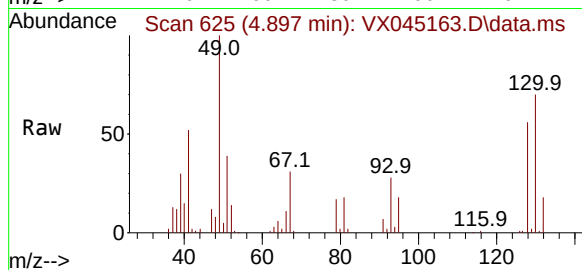
Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS



Tgt Ion: 49 Resp: 62510

Ion Ratio Lower Upper

49 100

129 1.9 0.0 3.4

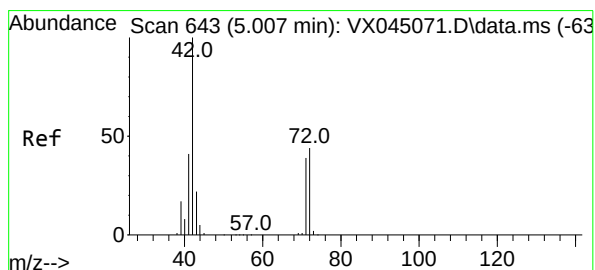
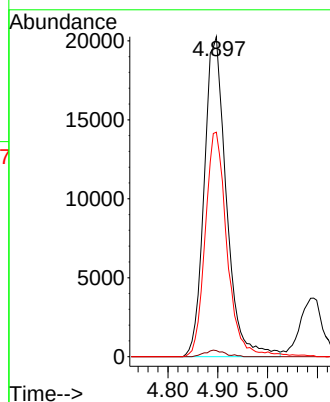
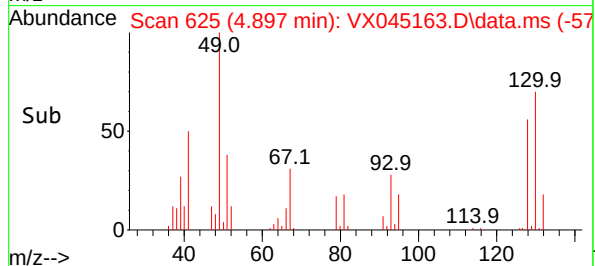
130 69.5 56.1 84.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#29

Tetrahydrofuran

Concen: 253.553 ug/l

RT: 5.007 min Scan# 643

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

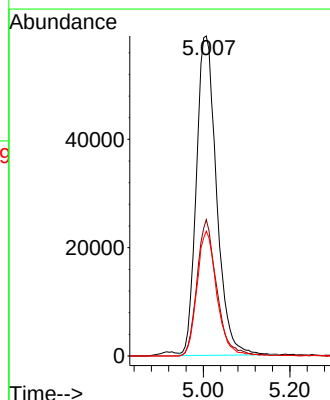
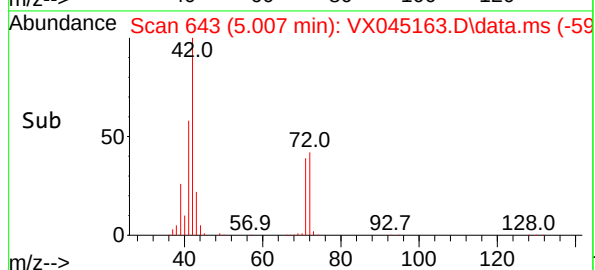
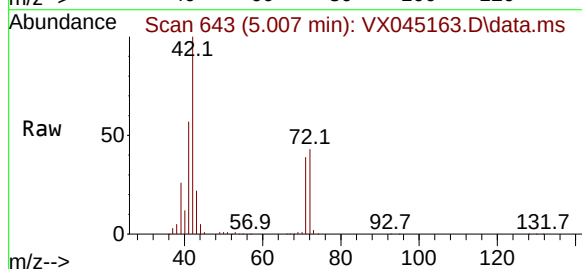
Tgt Ion: 42 Resp: 191259

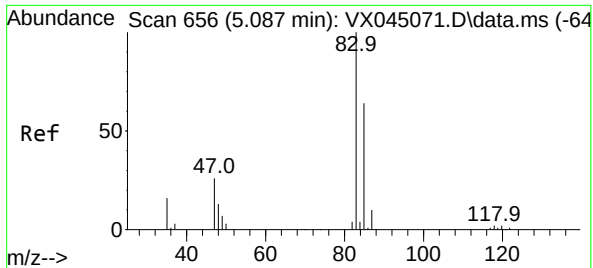
Ion Ratio Lower Upper

42 100

72 41.7 34.1 51.1

71 38.5 31.4 47.0





#30

Chloroform

Concen: 50.192 ug/l

RT: 5.092 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS

Tgt Ion: 83 Resp: 125714

Ion Ratio Lower Upper

83 100

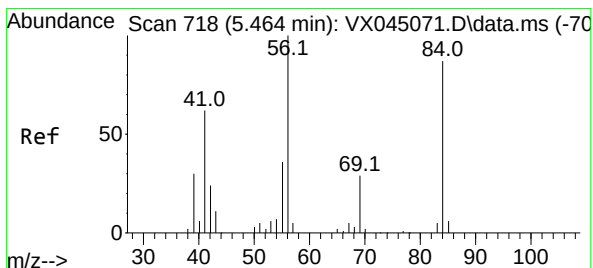
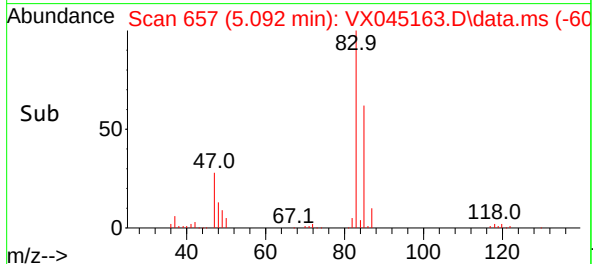
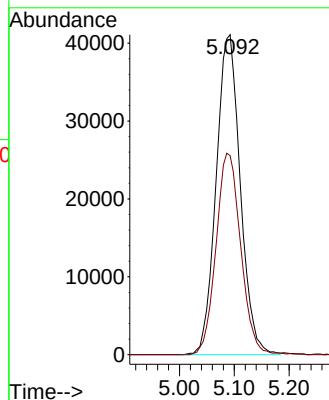
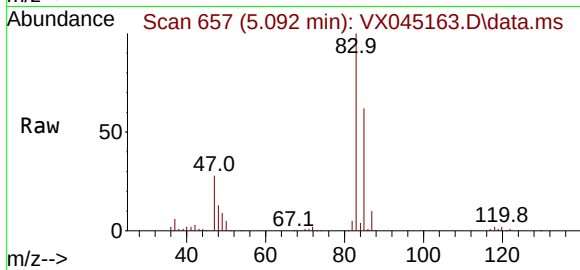
85 62.2 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#31

Cyclohexane

Concen: 50.038 ug/l

RT: 5.464 min Scan# 718

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

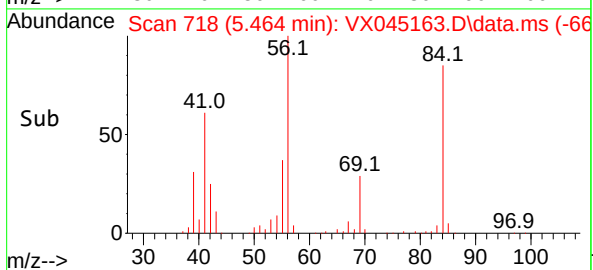
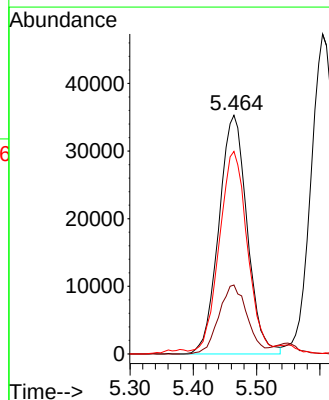
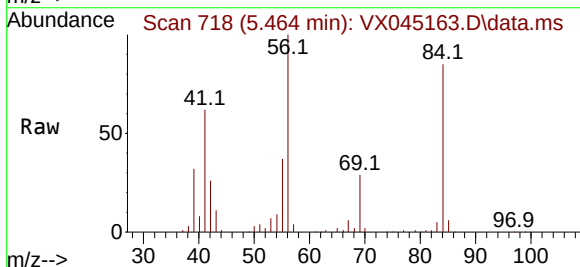
Tgt Ion: 56 Resp: 109491

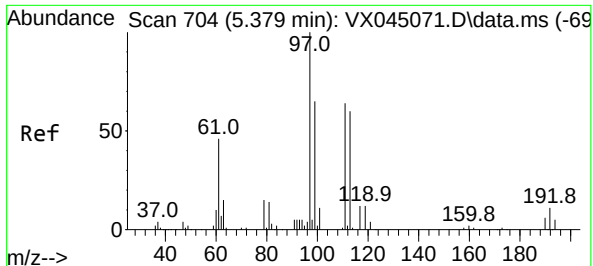
Ion Ratio Lower Upper

56 100

69 28.9 23.4 35.2

84 83.0 69.4 104.2





#32

1,1,1-Trichloroethane

Concen: 49.885 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX045163.D

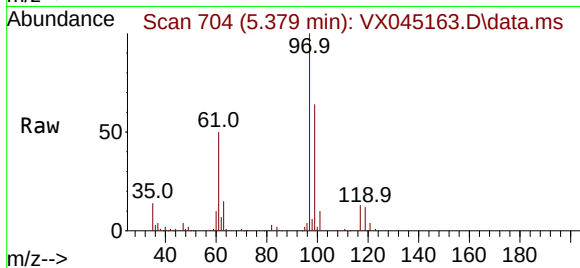
Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS



Tgt Ion: 97 Resp: 100914

Ion Ratio Lower Upper

97 100

99 65.2 51.6 77.4

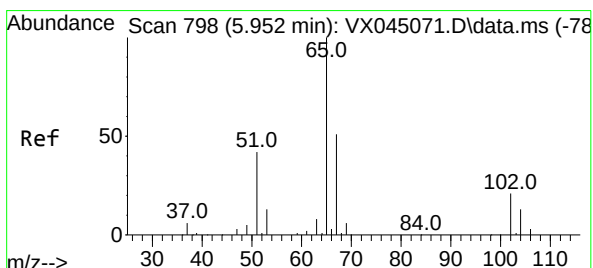
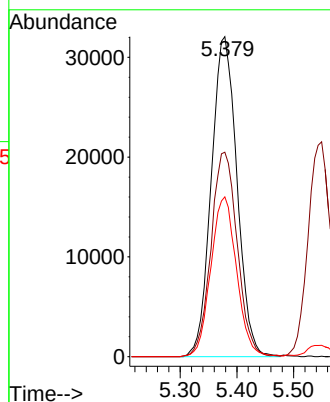
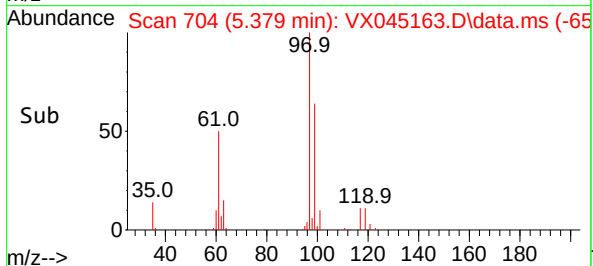
61 50.2 38.4 57.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#33

1,2-Dichloroethane-d4

Concen: 51.389 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX045163.D

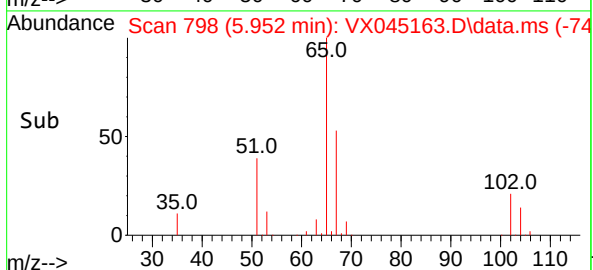
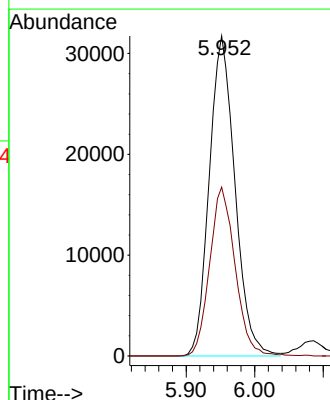
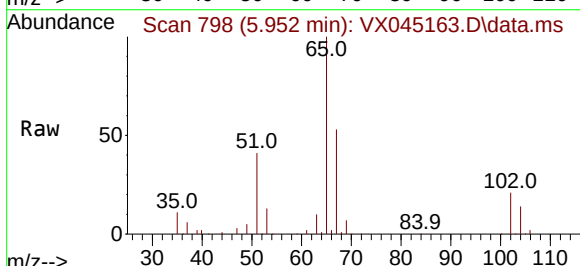
Acq: 06 Mar 2025 13:09

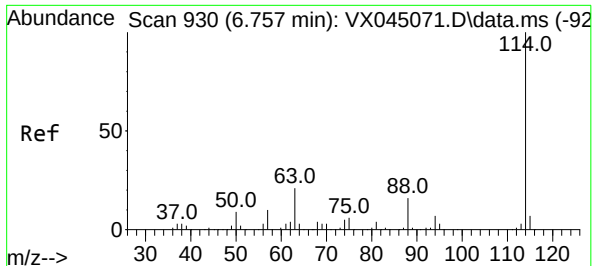
Tgt Ion: 65 Resp: 82650

Ion Ratio Lower Upper

65 100

67 52.2 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS

Tgt Ion:114 Resp: 17908

Ion Ratio Lower Upper

114 100

63 21.4 0.0 41.8

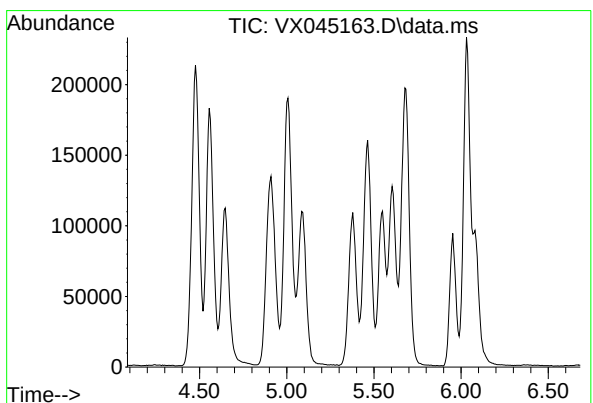
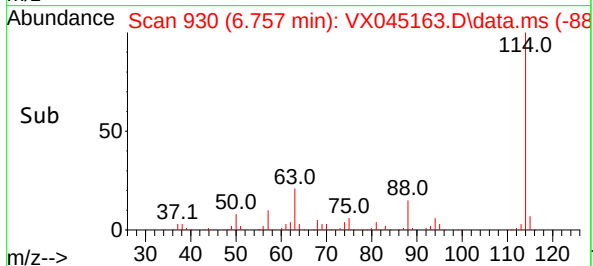
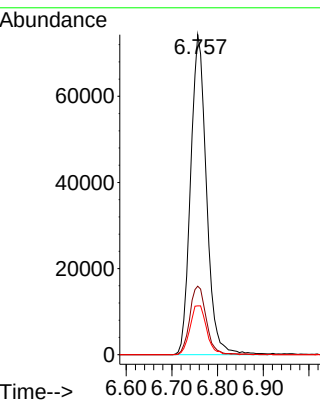
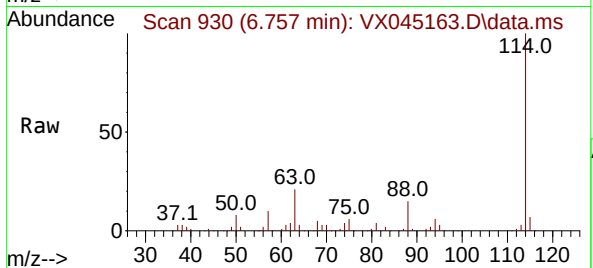
88 15.3 0.0 32.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 5.39 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

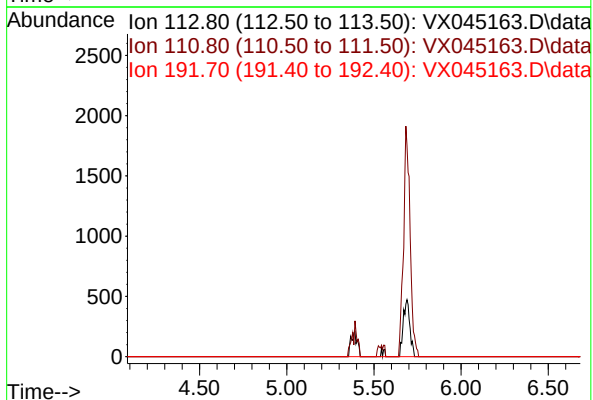
Tgt Ion: 113

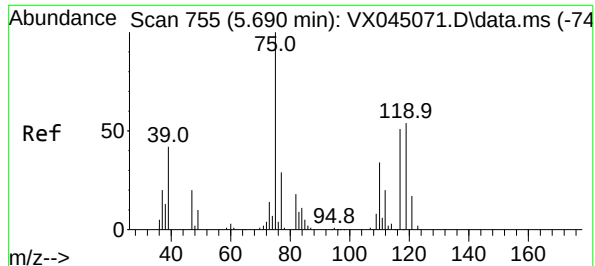
Sig Exp Ratio

113 100

111 102.2

192 17.9





#36

1,1-Dichloropropene

Concen: 50.660 ug/l

RT: 5.684 min Scan# 755

Delta R.T. -0.006 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS

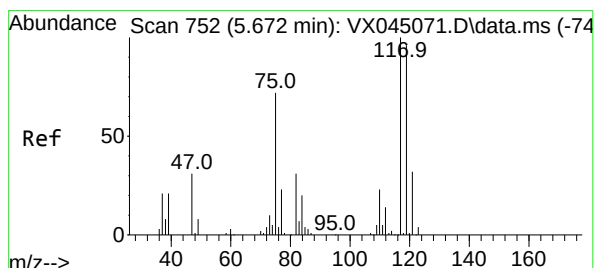
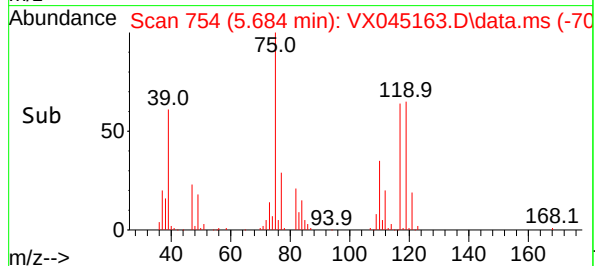
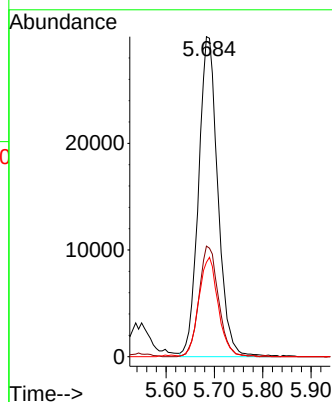
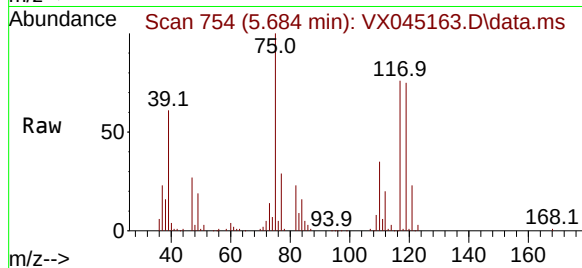
Tgt Ion:	75	Resp:	8319
Ion Ratio	Lower	Upper	
75	100		
110	34.9	16.9	50.6
77	31.4	24.5	36.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#38

Carbon Tetrachloride

Concen: 50.057 ug/l

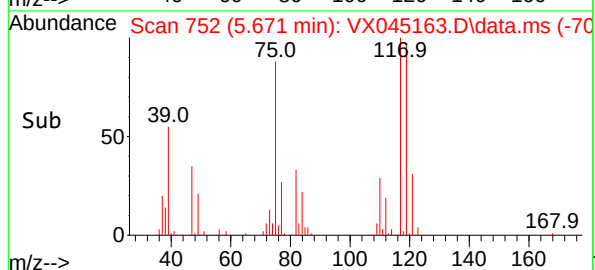
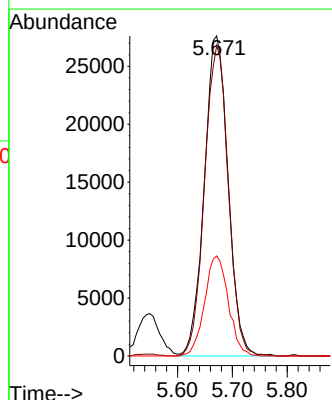
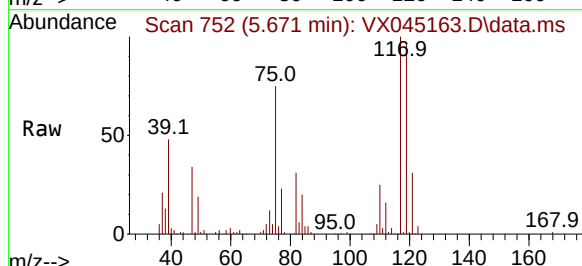
RT: 5.671 min Scan# 752

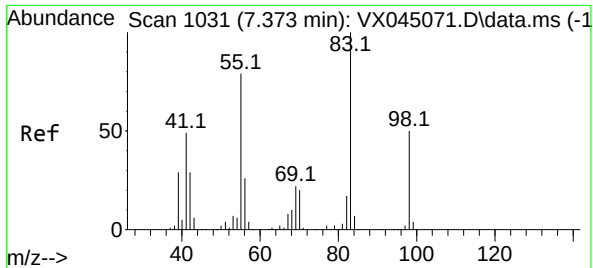
Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Tgt Ion:	117	Resp:	83458
Ion Ratio	Lower	Upper	
117	100		
119	97.1	76.7	115.1
121	31.2	25.5	38.3





#39

Methylcyclohexane

Concen: 52.749 ug/l

RT: 7.378 min Scan# 1031

Delta R.T. 0.006 min

Lab File: VX045163.D

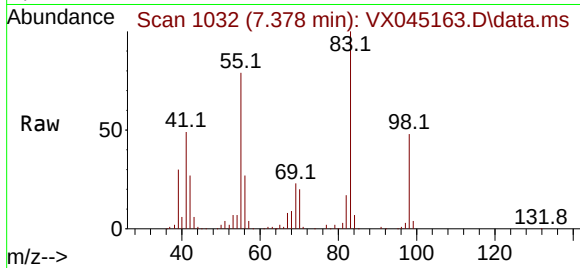
Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS



Tgt Ion: 83 Resp: 10379

Ion Ratio Lower Upper

83 100

55 79.1 63.0 94.4

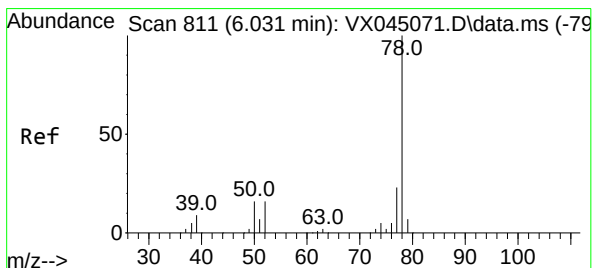
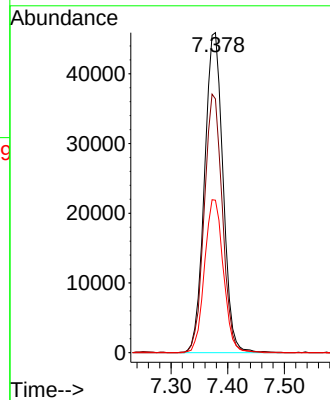
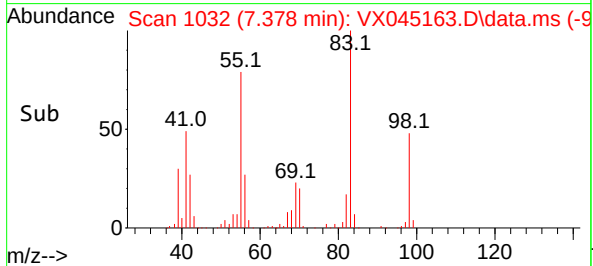
98 47.7 39.7 59.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#40

Benzene

Concen: 51.682 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX045163.D

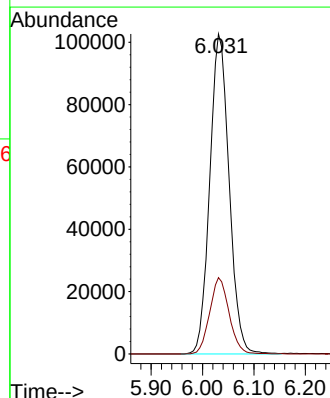
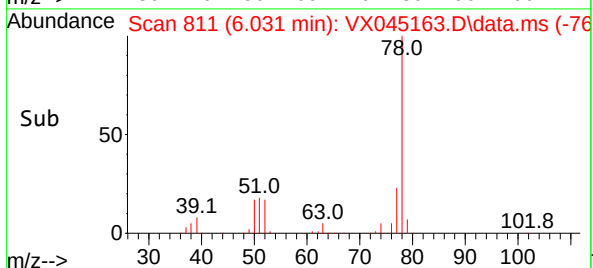
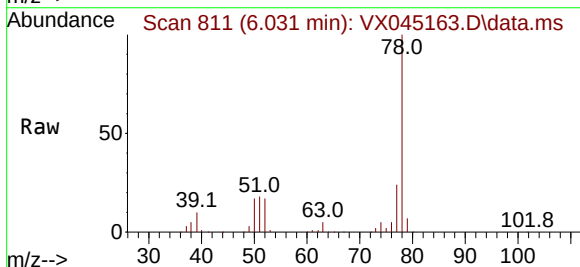
Acq: 06 Mar 2025 13:09

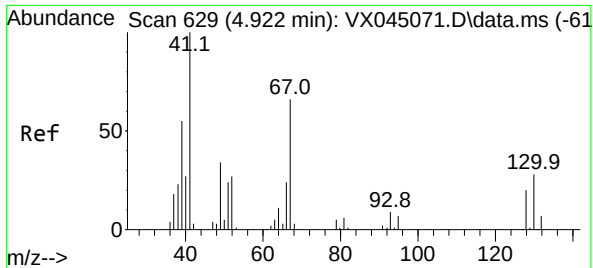
Tgt Ion: 78 Resp: 268012

Ion Ratio Lower Upper

78 100

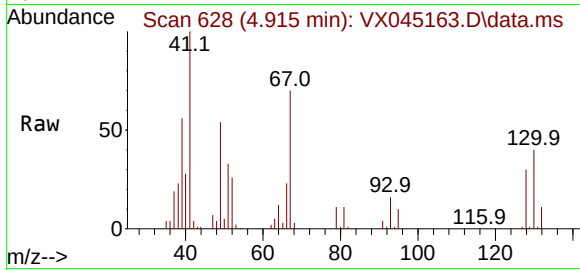
77 23.9 18.8 28.2





#41
Methacrylonitrile
Concen: 54.549 ug/l
RT: 4.915 min Scan# 628
Delta R.T. -0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

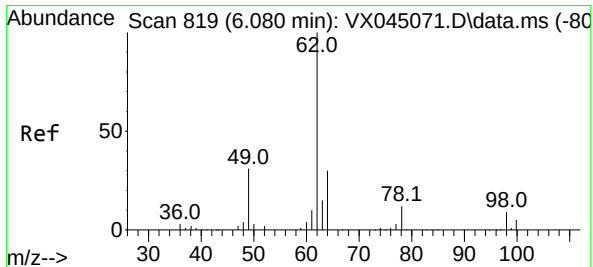
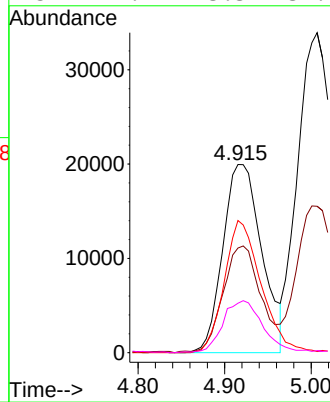
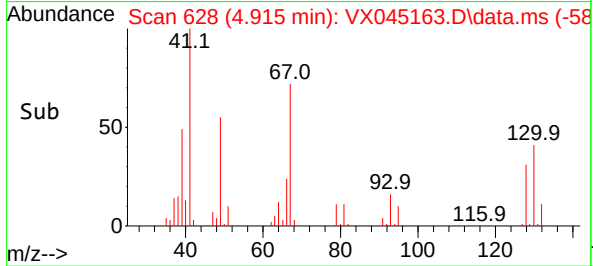
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS



Tgt Ion: 41 Resp: 62410
Ion Ratio Lower Upper
41 100
39 54.1 44.6 67.0
67 66.6 53.9 80.9
52 29.2 23.3 34.9

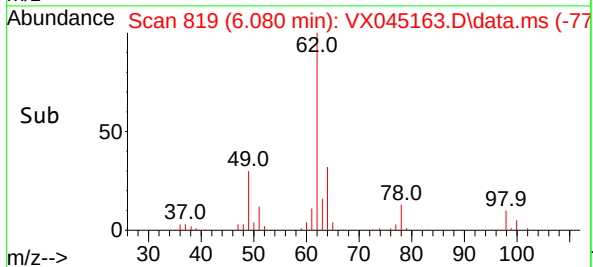
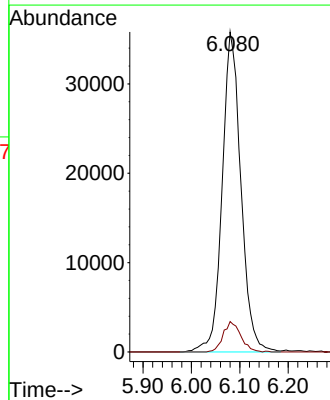
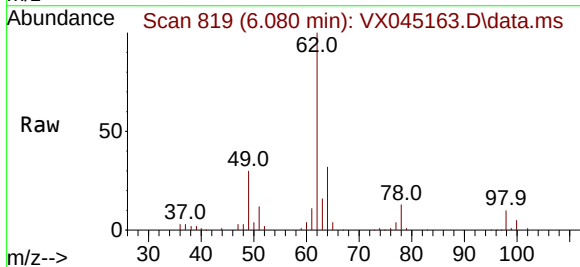
Manual Integrations
APPROVED

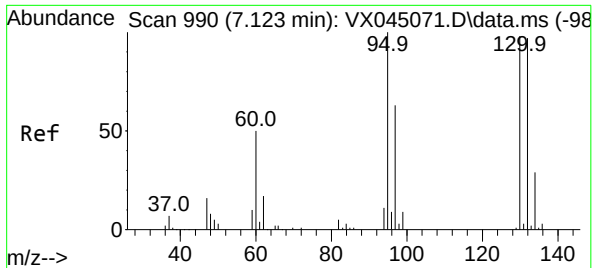
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#42
1,2-Dichloroethane
Concen: 51.592 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 62 Resp: 96342
Ion Ratio Lower Upper
62 100
98 8.9 0.0 18.2





#44

Trichloroethene

Concen: 94.894 ug/l

RT: 7.122 min Scan# 990

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS

Tgt Ion:130 Resp: 115549

Ion Ratio Lower Upper

130 100

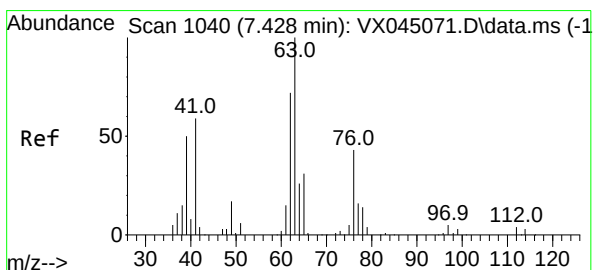
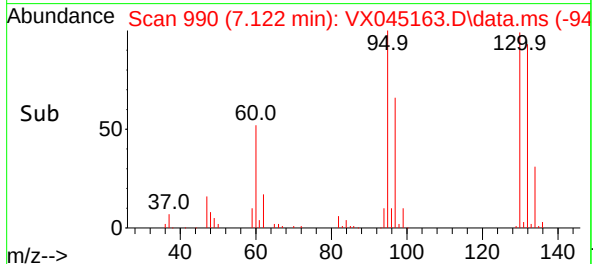
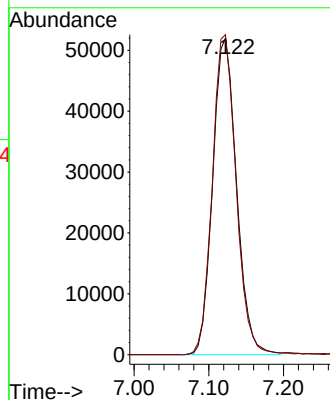
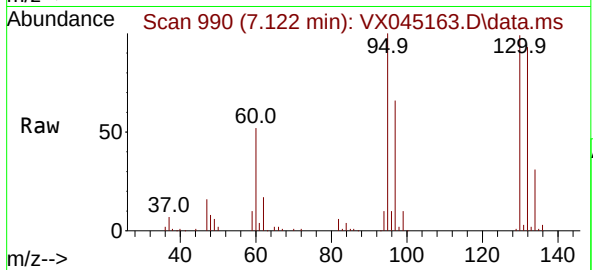
95 101.0 0.0 205.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#45

1,2-Dichloropropane

Concen: 51.209 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX045163.D

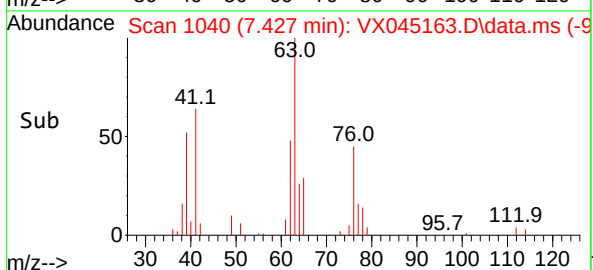
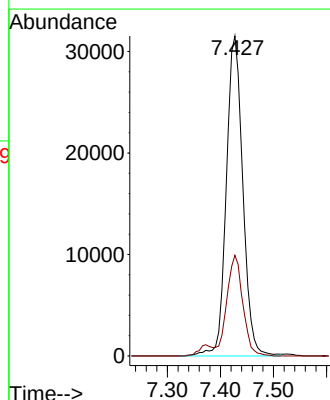
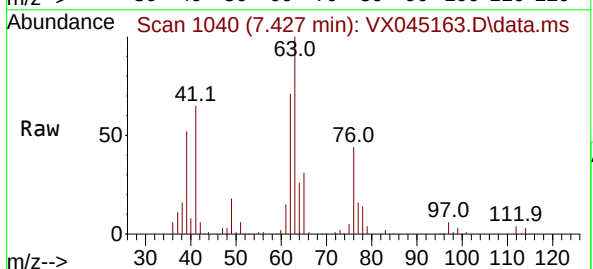
Acq: 06 Mar 2025 13:09

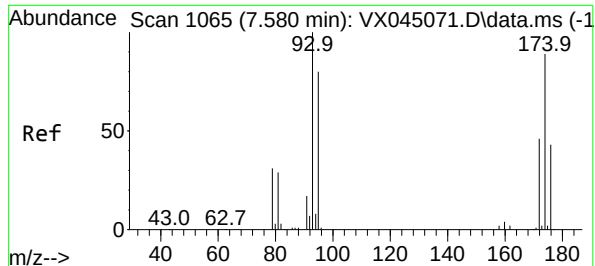
Tgt Ion: 63 Resp: 68277

Ion Ratio Lower Upper

63 100

65 31.5 24.7 37.1





#46

Dibromomethane

Concen: 52.588 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS

Tgt Ion: 93 Resp: 4955

Ion Ratio Lower Upper

93 100

95 83.8 65.8 98.8

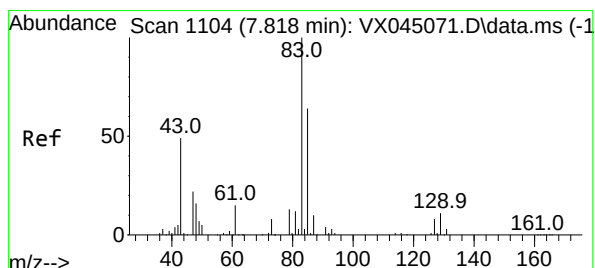
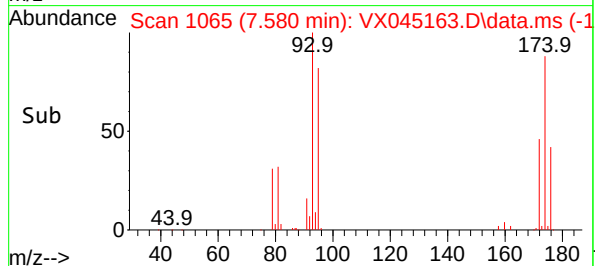
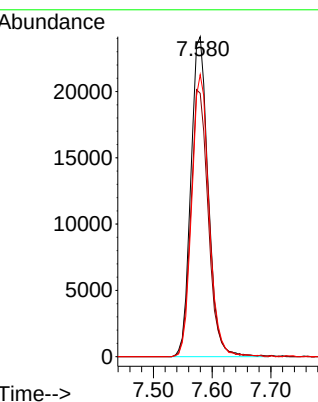
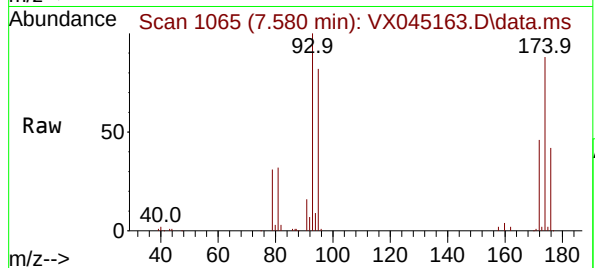
174 87.8 72.2 108.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#47

Bromodichloromethane

Concen: 41.338 ug/l

RT: 7.817 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

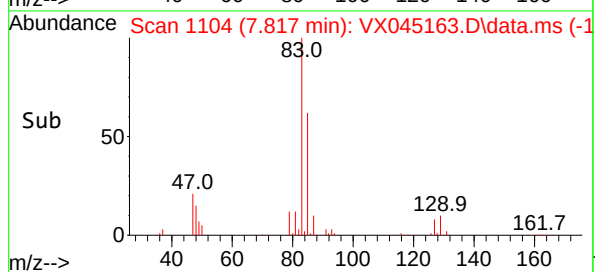
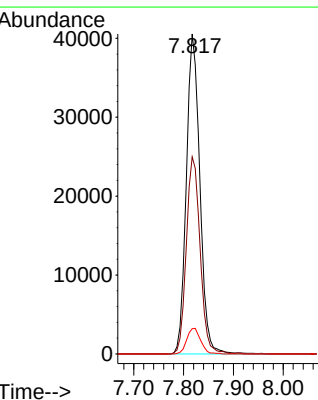
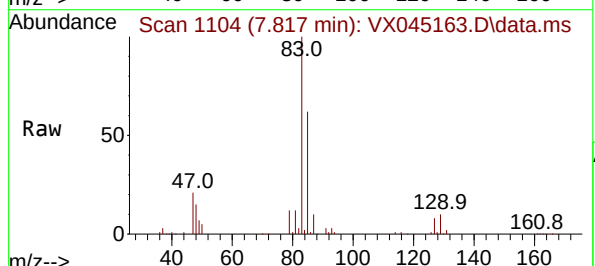
Tgt Ion: 83 Resp: 76414

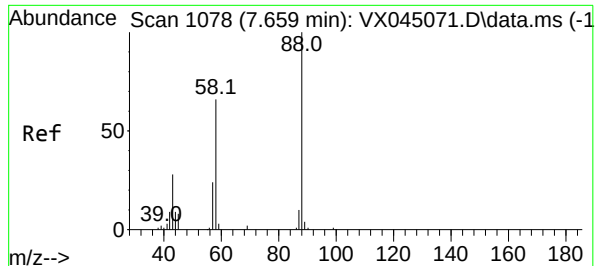
Ion Ratio Lower Upper

83 100

85 61.6 51.1 76.7

127 7.9 6.4 9.6





#49

1,4-Dioxane

Concen: 913.440 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS

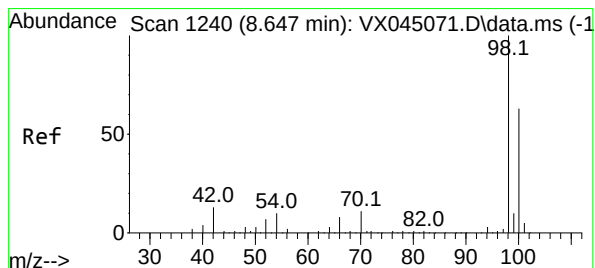
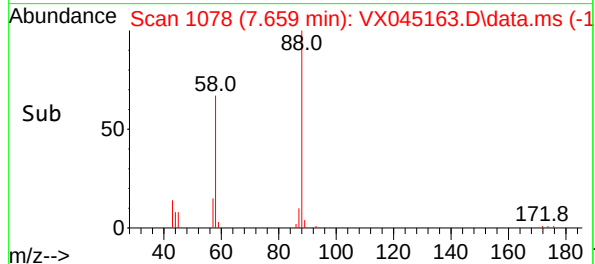
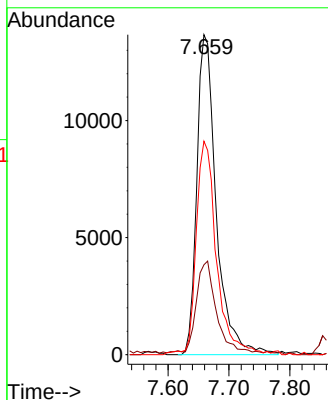
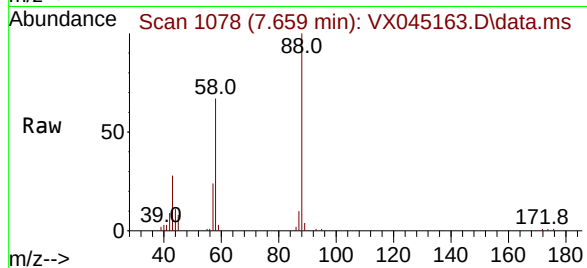
Tgt Ion:	88	Resp:	3024
Ion	Ratio	Lower	Upper
88	100		
43	29.3	28.7	43.1
58	69.7	55.8	83.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#50

Toluene-d8

Concen: 53.204 ug/l

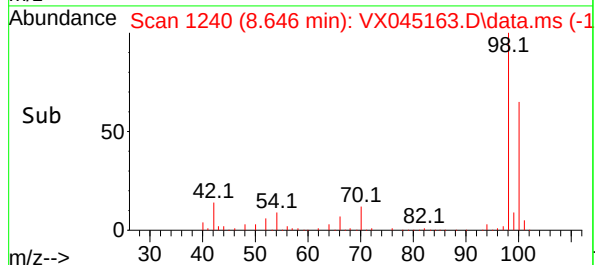
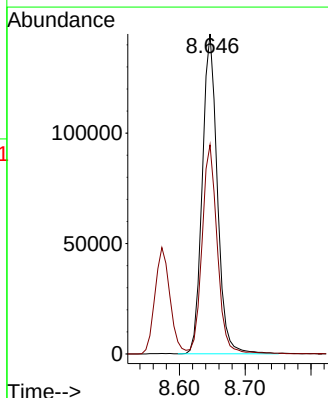
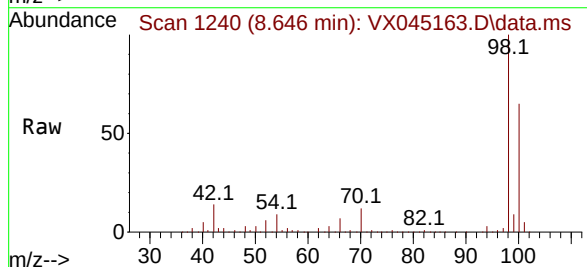
RT: 8.646 min Scan# 1240

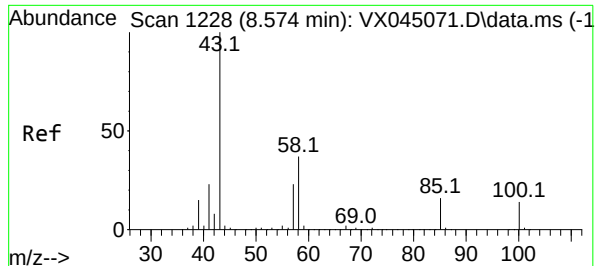
Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Tgt Ion:	98	Resp:	230975
Ion	Ratio	Lower	Upper
98	100		
100	66.0	52.0	78.0





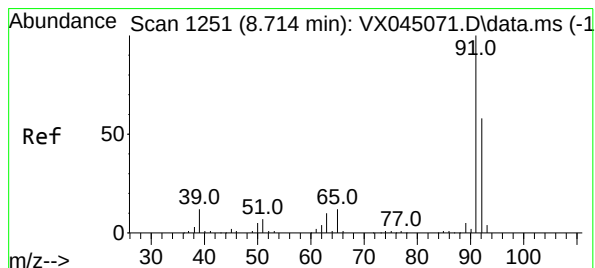
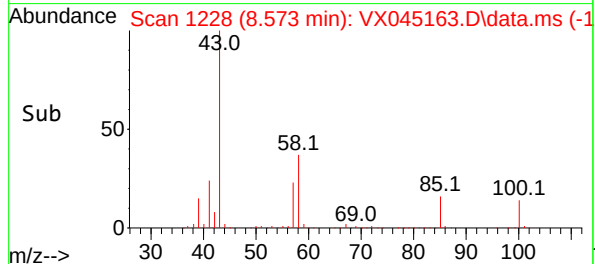
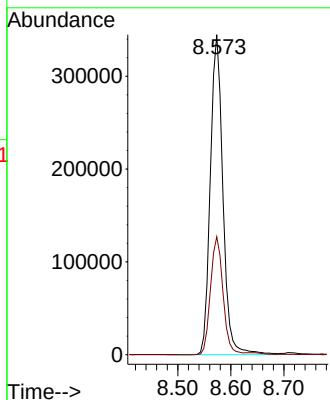
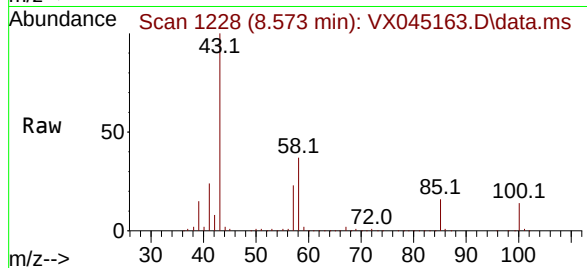
#51
4-Methyl-2-Pentanone
Concen: 270.554 ug/l
RT: 8.573 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Tgt Ion: 43 Resp: 56844
Ion Ratio Lower Upper
43 100
58 36.8 29.2 43.8

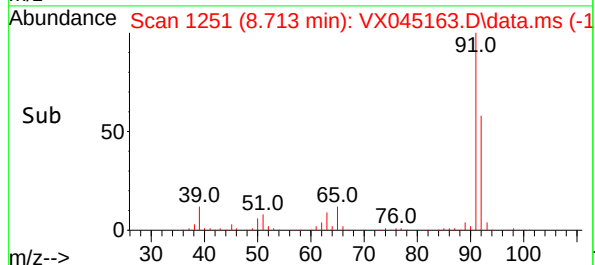
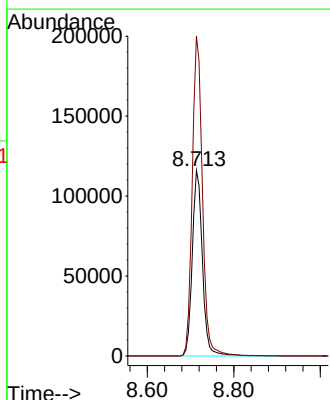
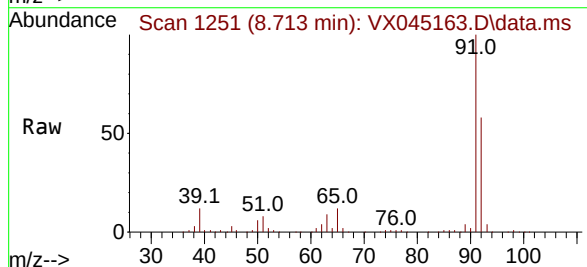
Manual Integrations
APPROVED

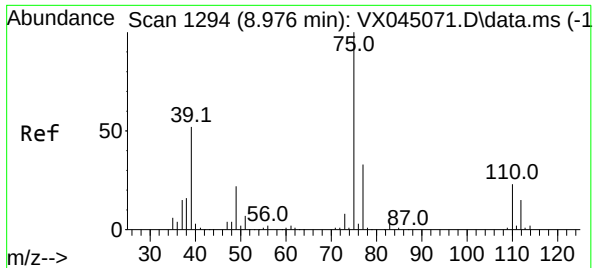
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#52
Toluene
Concen: 61.939 ug/l
RT: 8.713 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

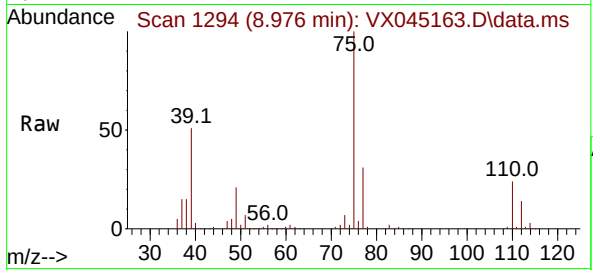
Tgt Ion: 92 Resp: 188456
Ion Ratio Lower Upper
92 100
91 173.0 138.9 208.3





#53
t-1,3-Dichloropropene
Concen: 54.366 ug/l
RT: 8.976 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

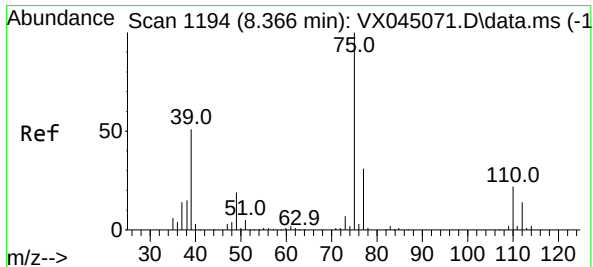
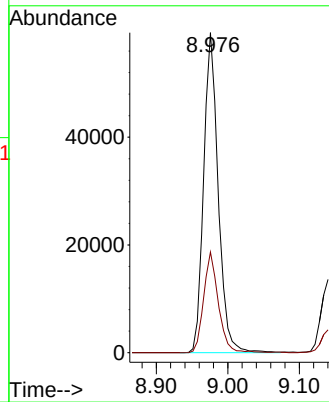
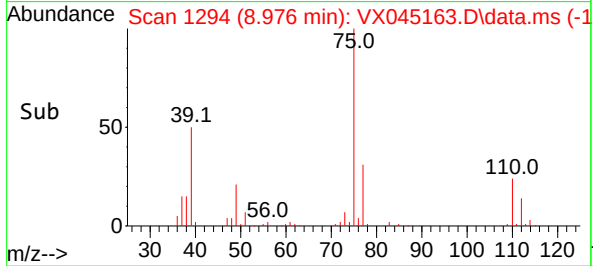
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS



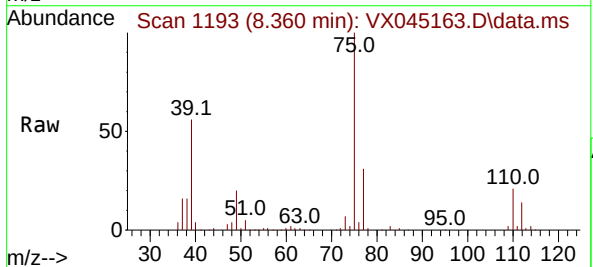
Tgt Ion: 75 Resp: 84014
Ion Ratio Lower Upper
75 100
77 31.5 26.5 39.7

Manual Integrations
APPROVED

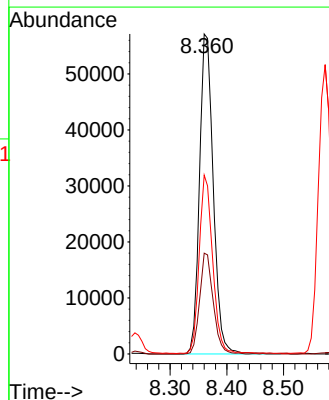
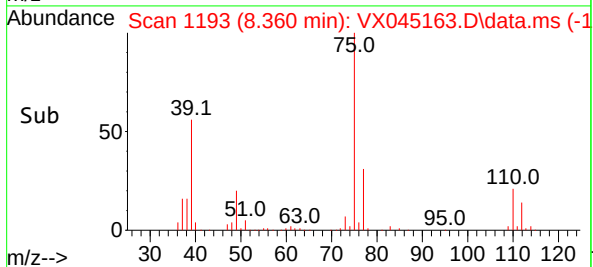
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

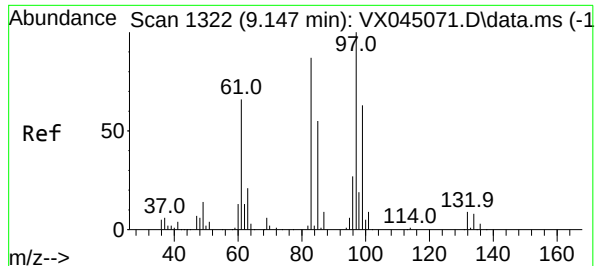


#54
cis-1,3-Dichloropropene
Concen: 53.555 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.007 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09



Tgt Ion: 75 Resp: 96507
Ion Ratio Lower Upper
75 100
77 31.5 24.7 37.1
39 55.7 40.7 61.1





#55

1,1,2-Trichloroethane

Concen: 23.613 ug/l

RT: 9.152 min Scan# 1323

Delta R.T. 0.006 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS

Tgt Ion: 97 Resp: 2957

Ion Ratio Lower Upper

97 100

83 83.4 69.4 104.2

85 58.8 44.1 66.1

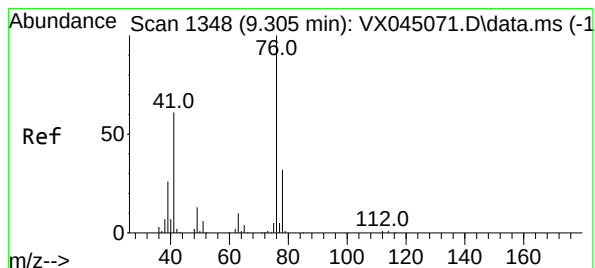
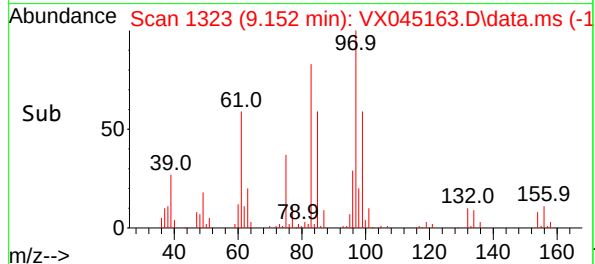
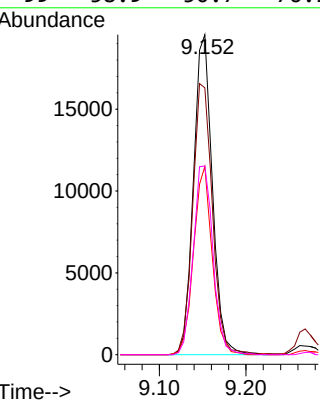
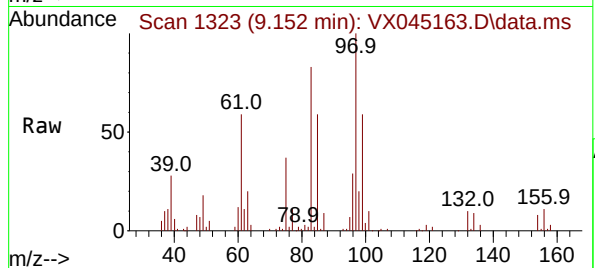
99 58.9 50.7 76.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#57

1,3-Dichloropropane

Concen: 51.541 ug/l

RT: 9.305 min Scan# 1348

Delta R.T. -0.000 min

Lab File: VX045163.D

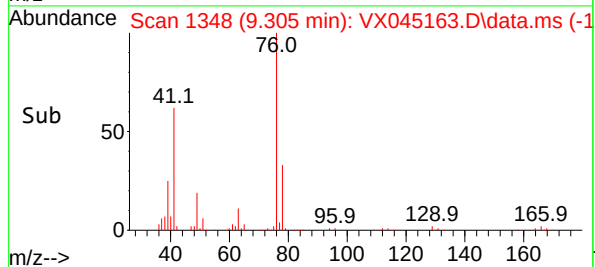
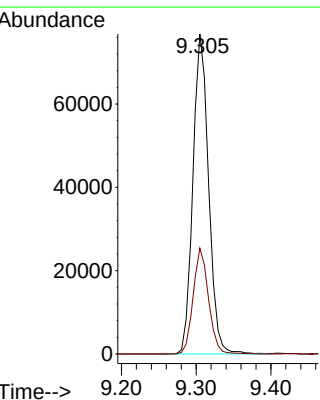
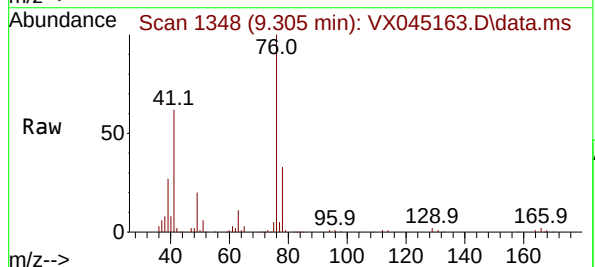
Acq: 06 Mar 2025 13:09

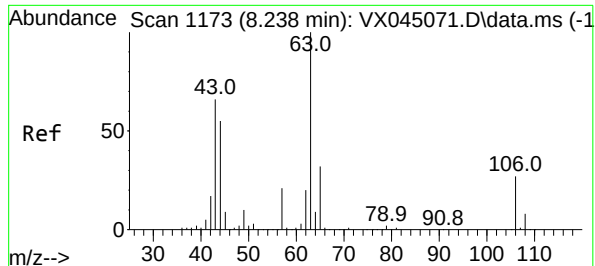
Tgt Ion: 76 Resp: 111722

Ion Ratio Lower Upper

76 100

78 32.4 25.5 38.3





#58

2-Chloroethyl Vinyl ether

Concen: 267.664 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS

Tgt Ion: 63 Resp: 248600

Ion Ratio Lower Upper

63 100

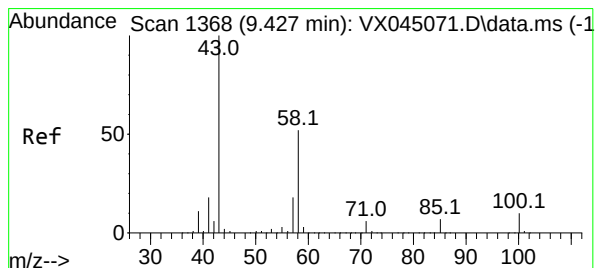
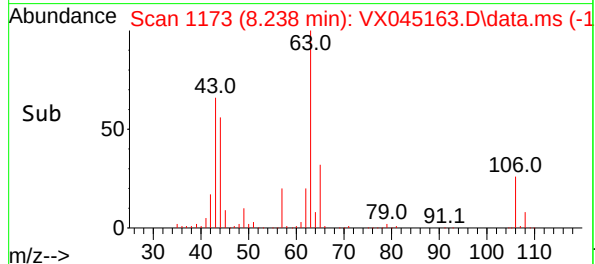
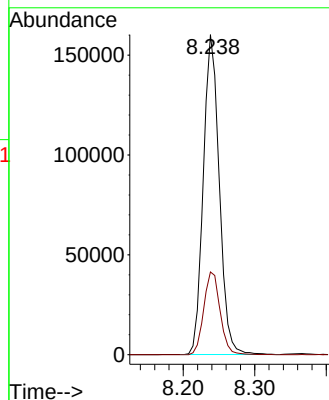
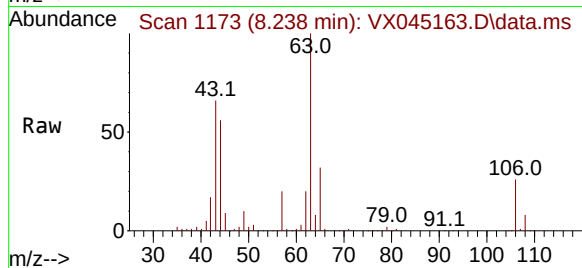
106 26.4 21.5 32.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#59

2-Hexanone

Concen: 274.135 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.000 min

Lab File: VX045163.D

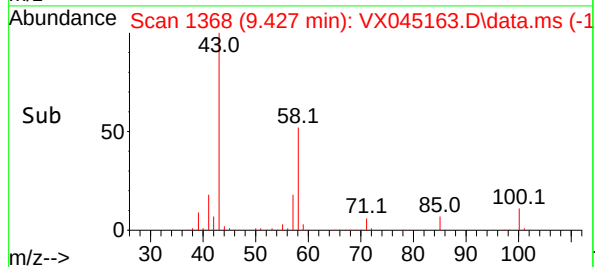
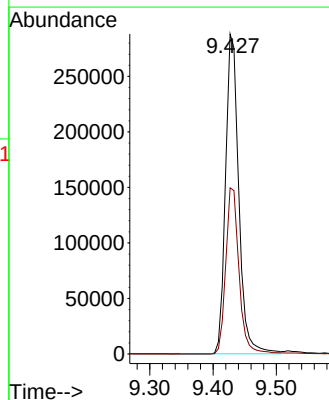
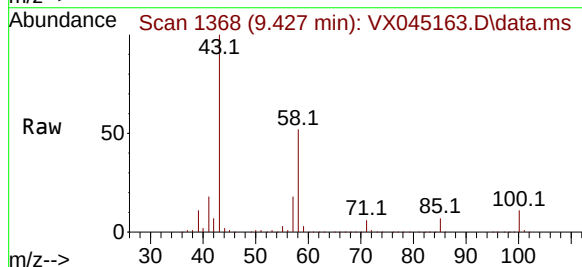
Acq: 06 Mar 2025 13:09

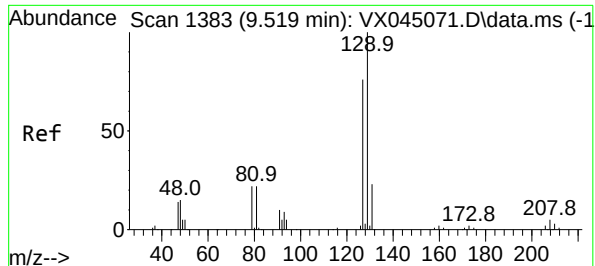
Tgt Ion: 43 Resp: 417312

Ion Ratio Lower Upper

43 100

58 52.6 25.9 77.6





#60

Dibromochloromethane

Concen: 46.004 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS

Tgt Ion:129 Resp: 60250

Ion Ratio Lower Upper

129 100

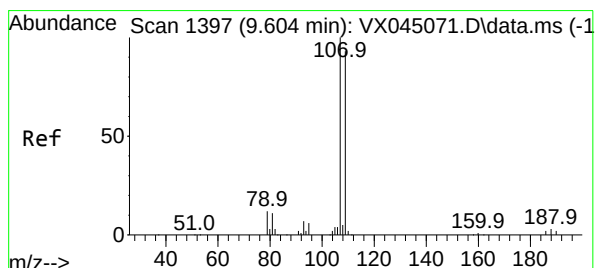
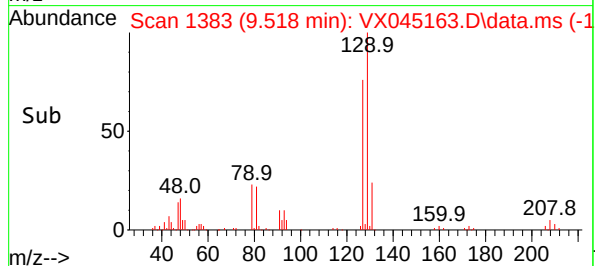
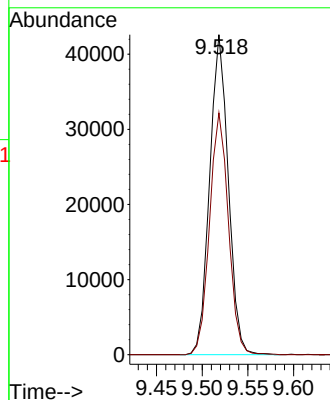
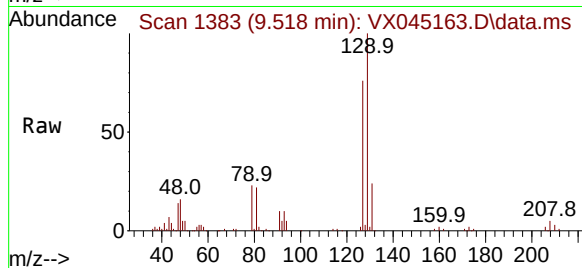
127 76.6 38.5 115.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#61

1,2-Dibromoethane

Concen: 51.190 ug/l

RT: 9.610 min Scan# 1398

Delta R.T. 0.006 min

Lab File: VX045163.D

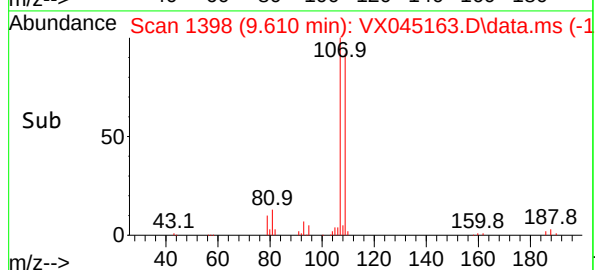
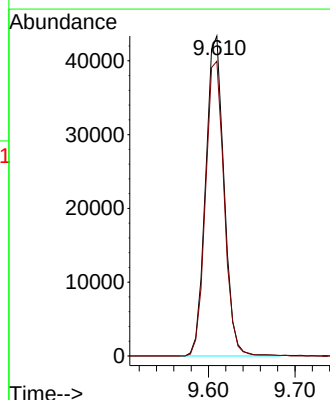
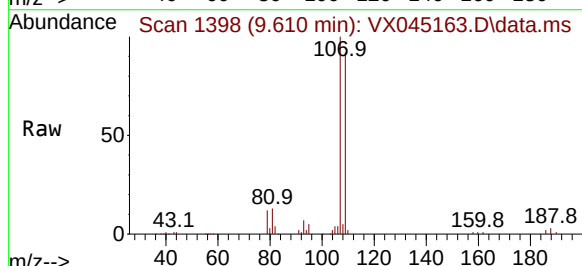
Acq: 06 Mar 2025 13:09

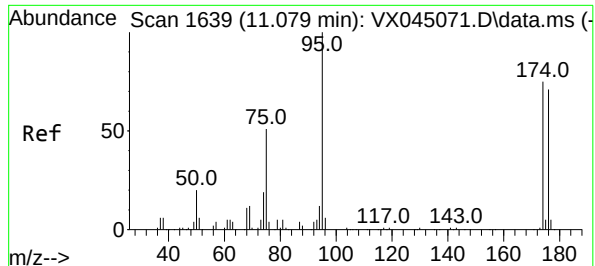
Tgt Ion:107 Resp: 64009

Ion Ratio Lower Upper

107 100

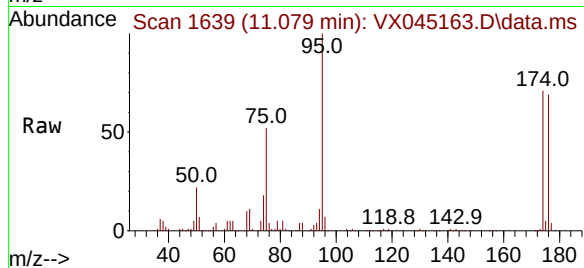
109 93.3 76.1 114.1





#62
4-Bromofluorobenzene
Concen: 54.731 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

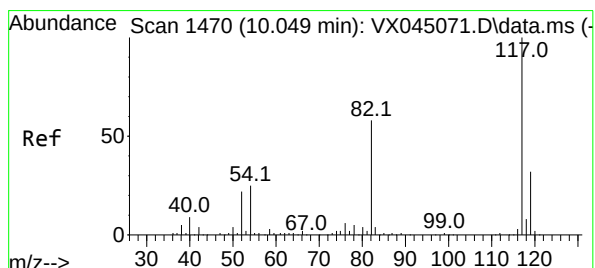
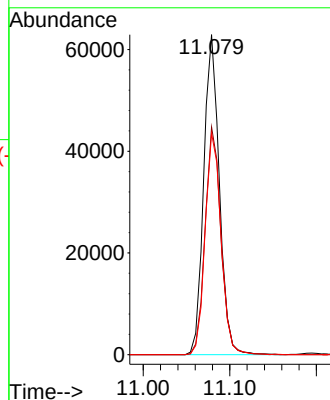
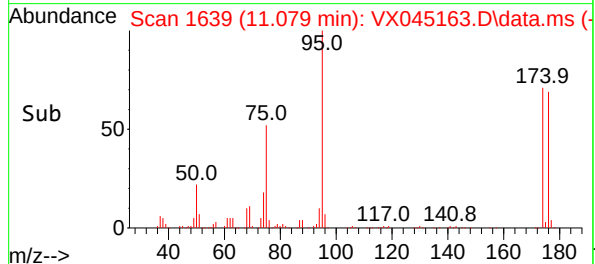
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS



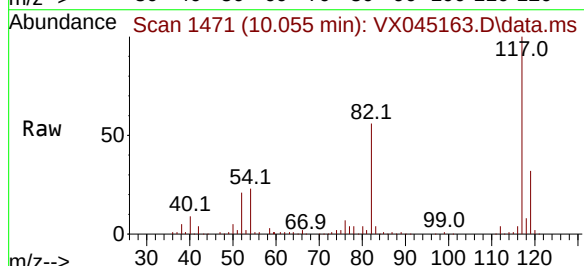
Tgt Ion: 95 Resp: 78735
Ion Ratio Lower Upper
95 100
174 72.1 0.0 148.2
176 70.5 0.0 141.4

Manual Integrations
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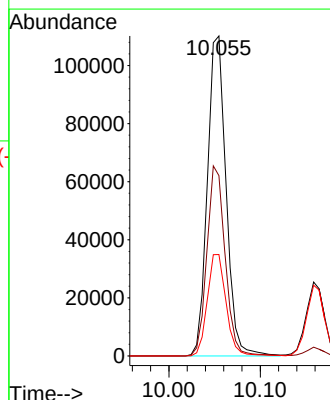
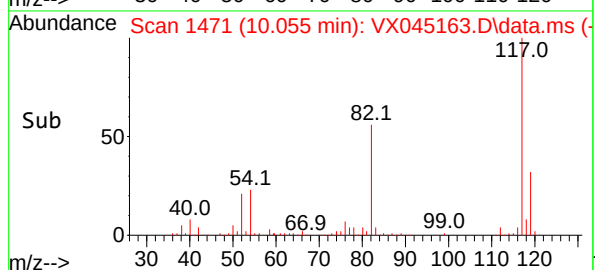
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

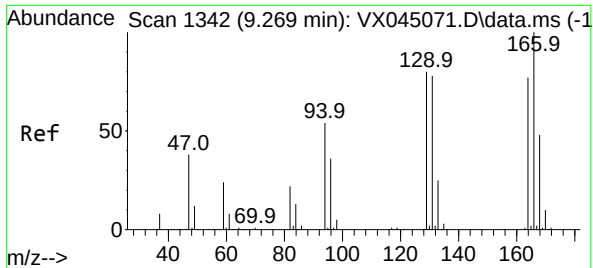


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09



Tgt Ion:117 Resp: 156313
Ion Ratio Lower Upper
117 100
82 56.4 46.3 69.5
119 31.7 25.7 38.5





#64

Tetrachloroethene

Concen: 88.922 ug/l

RT: 9.268 min Scan# 1342

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS

Tgt Ion:164 Resp: 8902

Ion Ratio Lower Upper

164 100

166 126.4 103.6 155.4

129 101.7 82.7 124.1

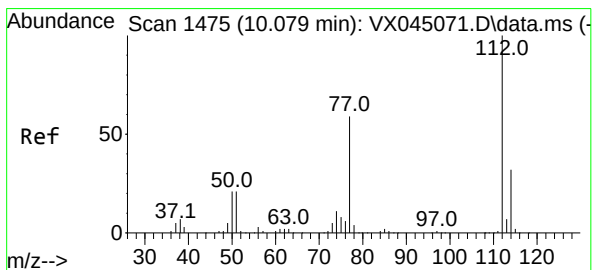
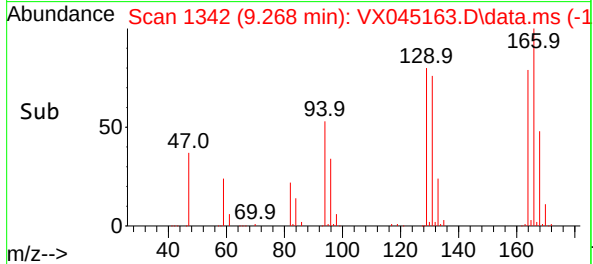
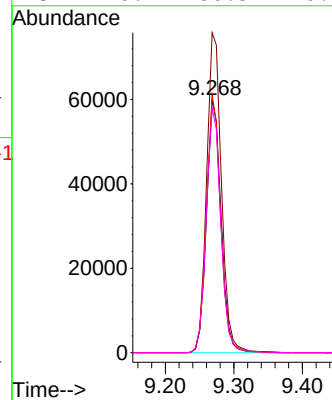
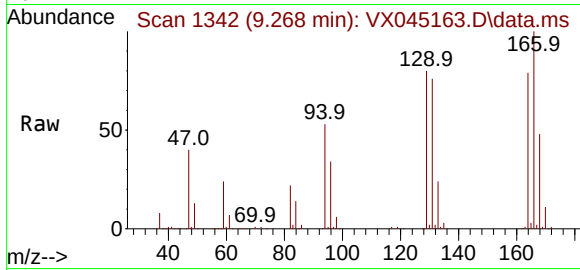
131 96.4 80.5 120.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#65

Chlorobenzene

Concen: 51.641 ug/l

RT: 10.079 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VX045163.D

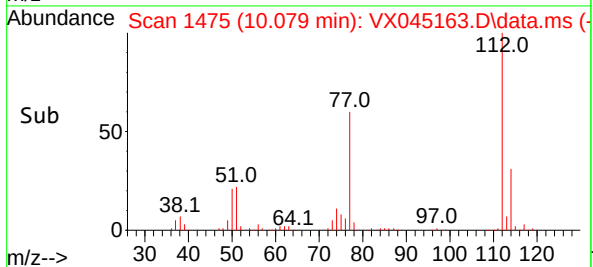
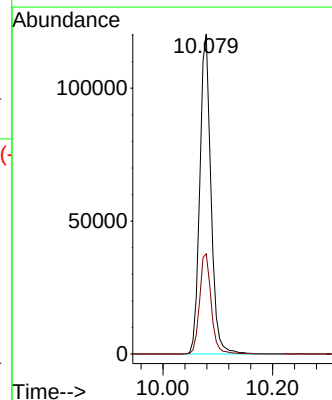
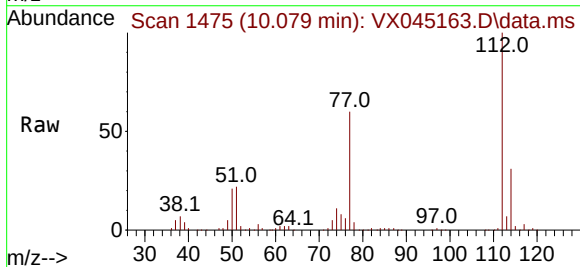
Acq: 06 Mar 2025 13:09

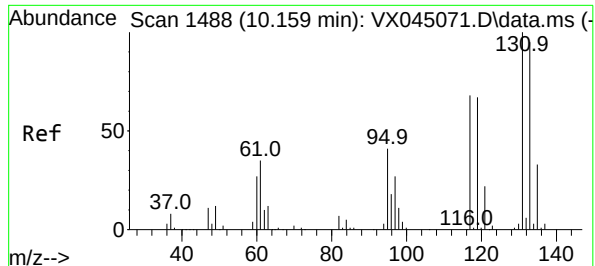
Tgt Ion:112 Resp: 170804

Ion Ratio Lower Upper

112 100

114 31.3 26.0 39.0





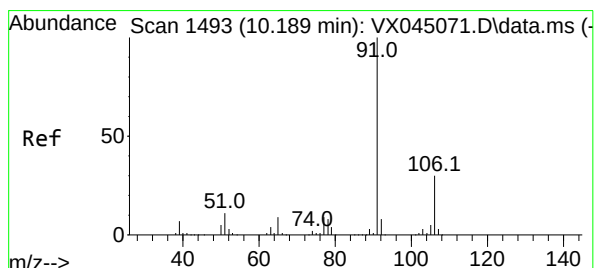
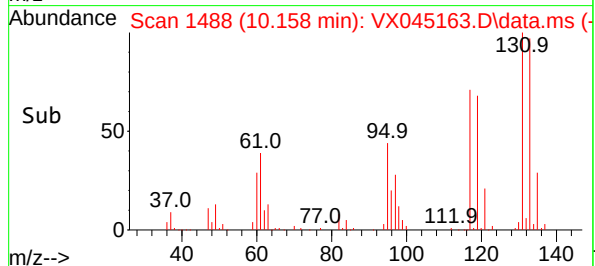
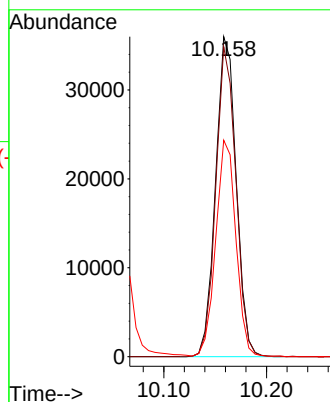
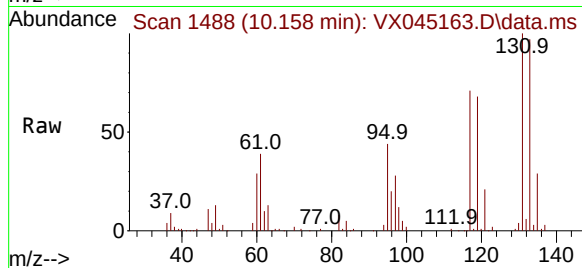
#66
1,1,1,2-Tetrachloroethane
Concen: 45.401 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Tgt Ion:131 Resp: 50000
Ion Ratio Lower Upper
131 100
133 94.5 48.6 145.9
119 66.4 33.9 101.7

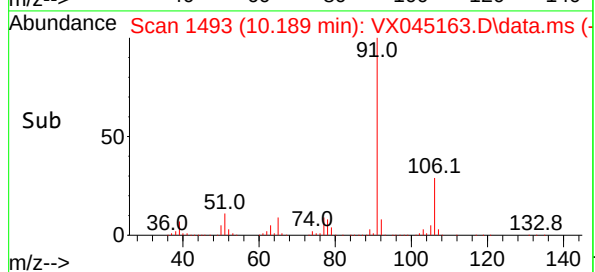
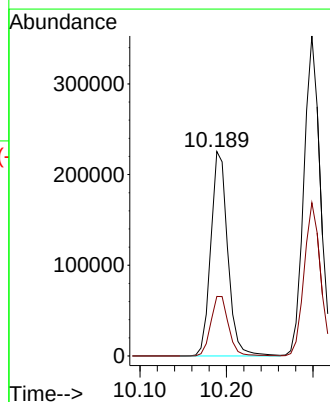
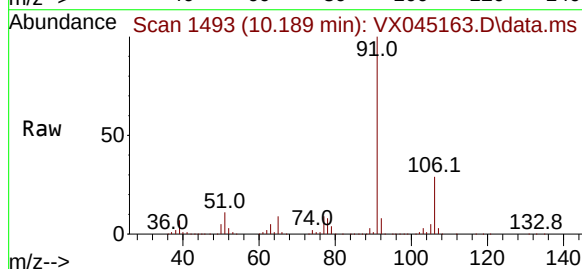
Manual Integrations
APPROVED

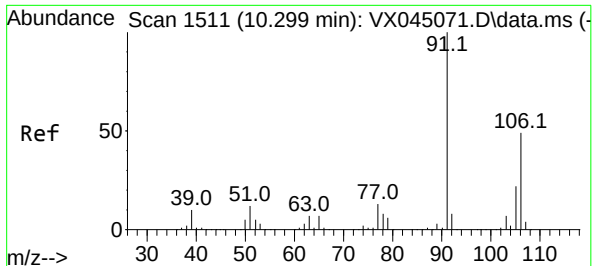
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#67
Ethyl Benzene
Concen: 53.134 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 91 Resp: 306222
Ion Ratio Lower Upper
91 100
106 29.1 23.9 35.9





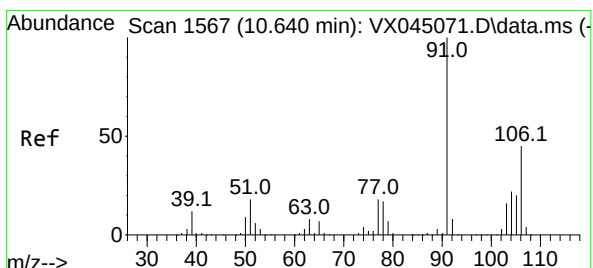
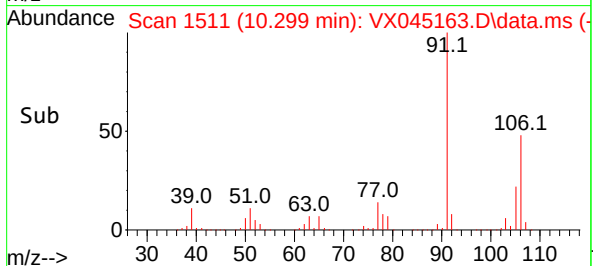
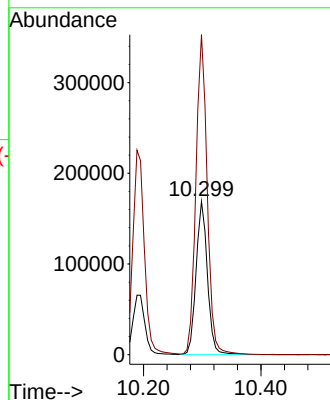
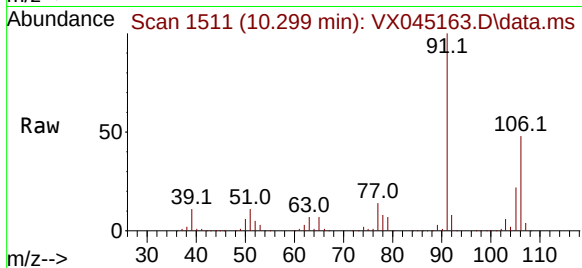
#68
m/p-Xylenes
Concen: 107.448 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Tgt Ion:106 Resp: 226689
Ion Ratio Lower Upper
106 100
91 207.2 165.4 248.0

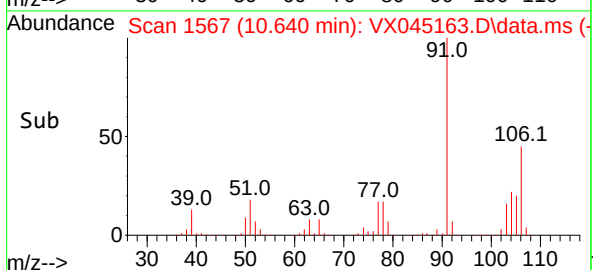
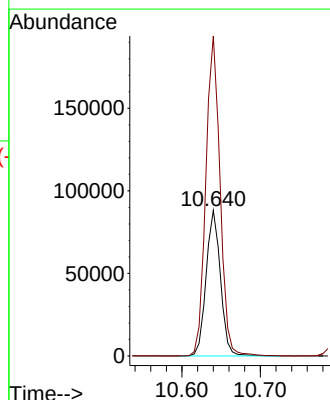
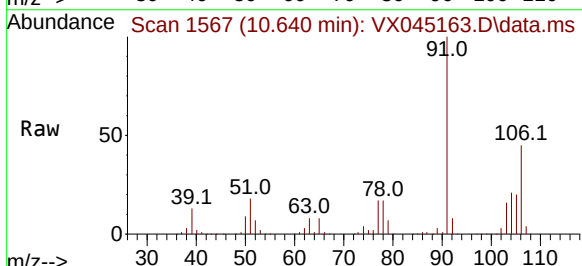
Manual Integrations
APPROVED

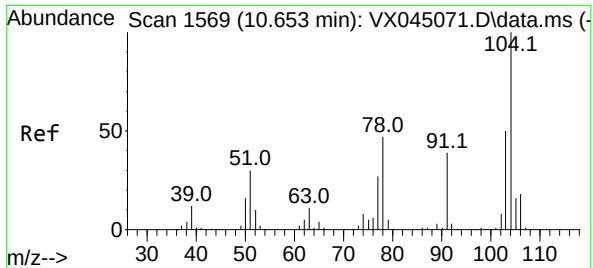
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#69
o-Xylene
Concen: 52.398 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:106 Resp: 111494
Ion Ratio Lower Upper
106 100
91 219.3 109.9 329.6





#70

Styrene

Concen: 54.191 ug/l

RT: 10.652 min Scan# 1569

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS

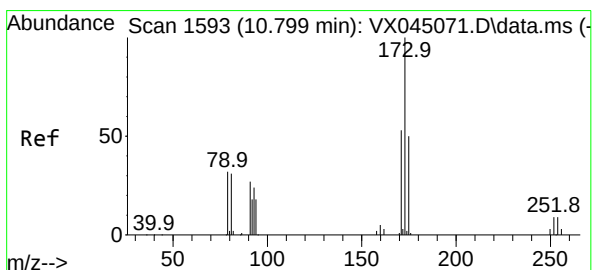
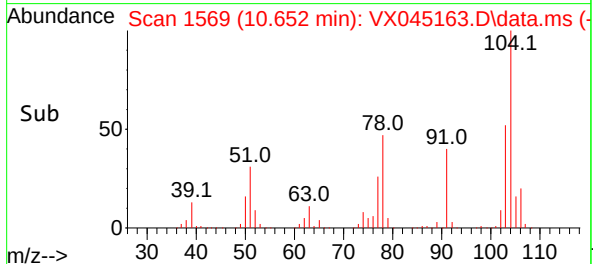
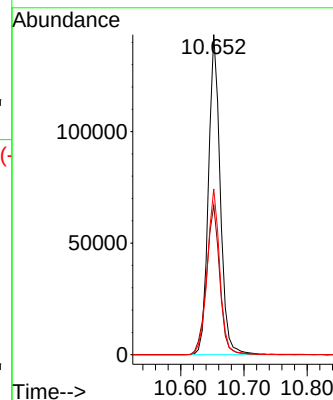
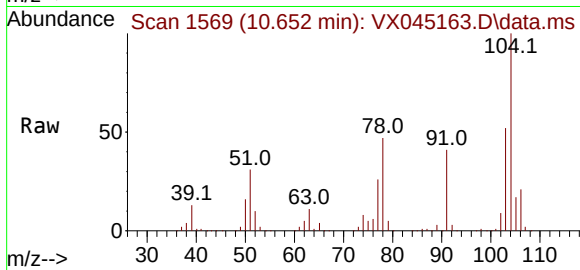
Tgt Ion:104	Resp: 186579
Ion Ratio	Lower Upper
104 100	
78 52.5	42.2 63.4
103 55.1	43.8 65.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#71

Bromoform

Concen: 49.118 ug/l

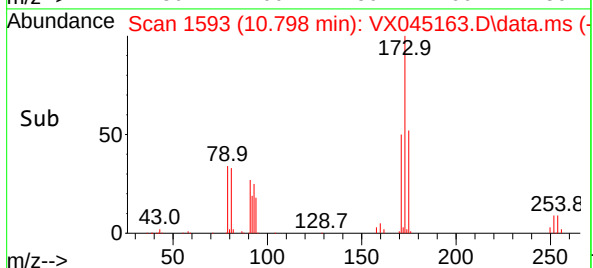
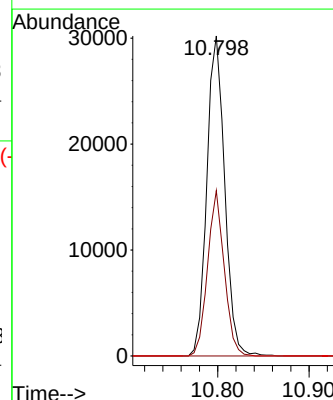
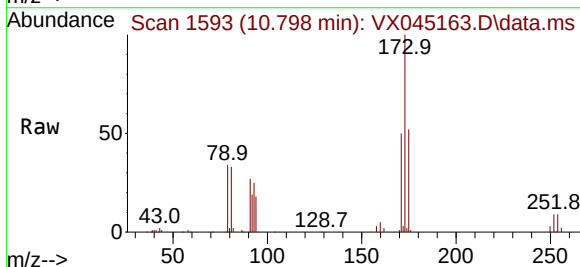
RT: 10.798 min Scan# 1593

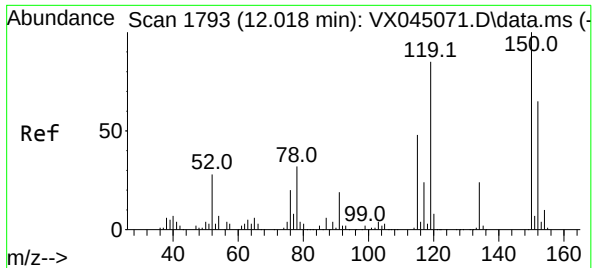
Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

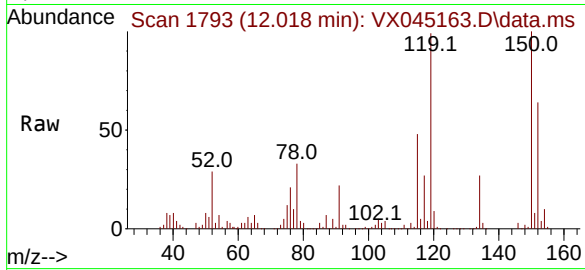
Tgt Ion:173	Resp: 40798
Ion Ratio	Lower Upper
173 100	
175 48.3	24.6 73.6
254 0.0	0.0 0.0





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

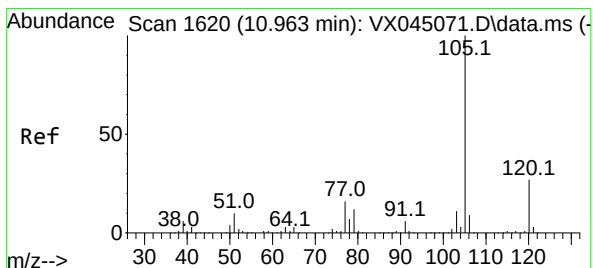
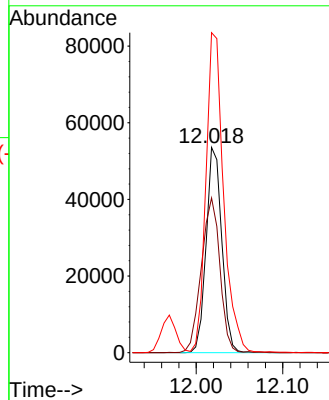
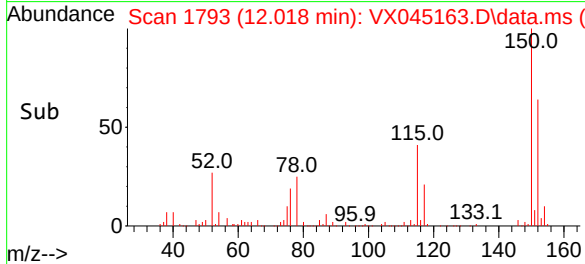
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS



Tgt Ion:152 Resp: 67219
Ion Ratio Lower Upper
152 100
115 89.6 44.2 132.6
150 176.3 0.0 349.0

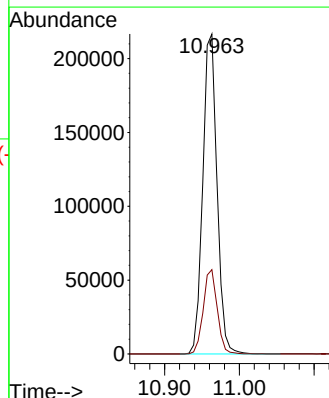
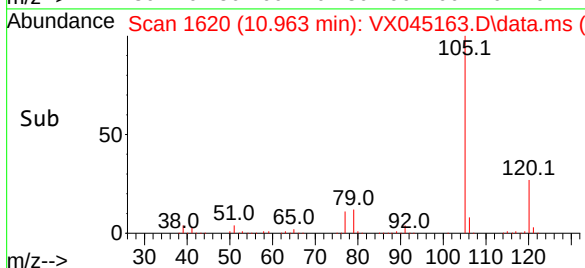
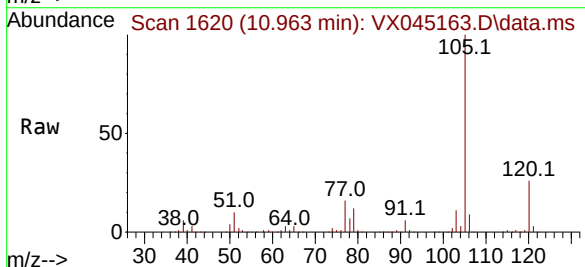
Manual Integrations
APPROVED

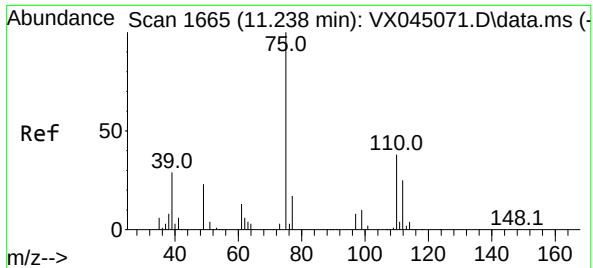
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#73
Isopropylbenzene
Concen: 54.471 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

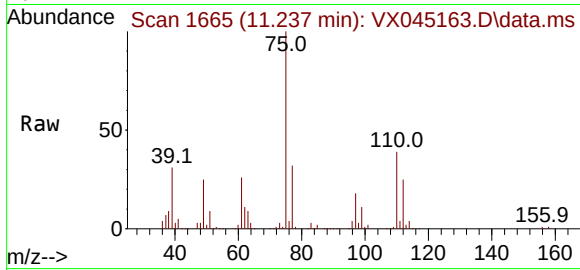
Tgt Ion:105 Resp: 285788
Ion Ratio Lower Upper
105 100
120 25.9 13.2 39.5





#76
1,2,3-Trichloropropane
Concen: 48.104 ug/l m
RT: 11.237 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

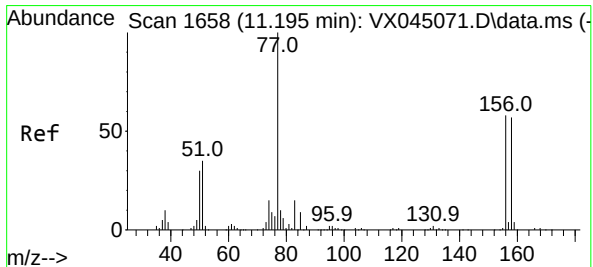
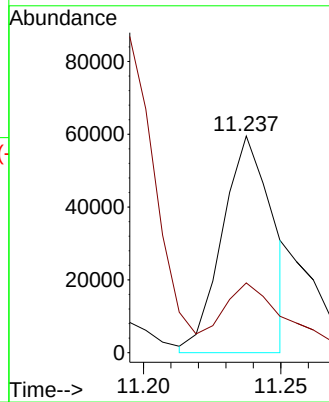
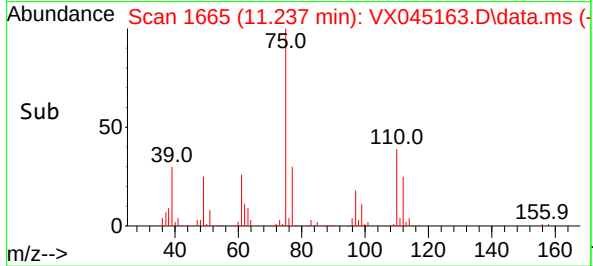
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS



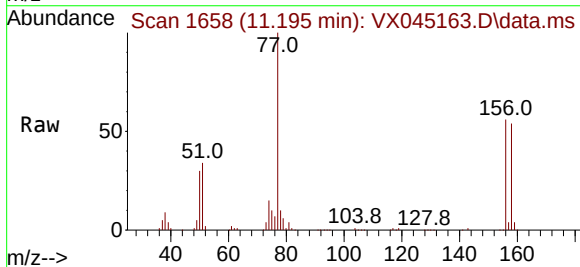
Tgt Ion: 75 Resp: 75260
Ion Ratio Lower Upper
75 100
77 41.8 20.7 62.1

Manual Integrations
APPROVED

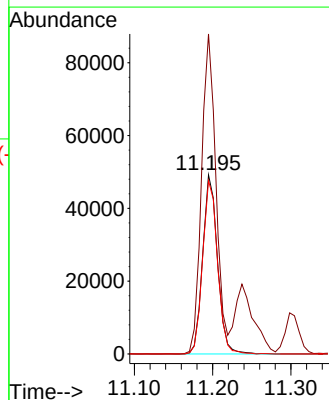
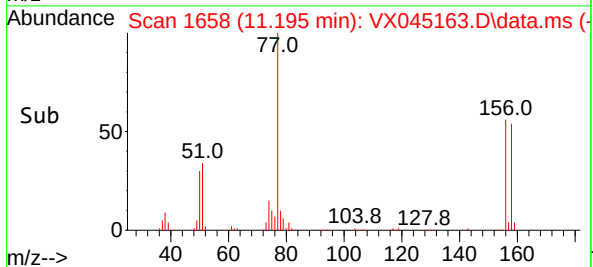
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

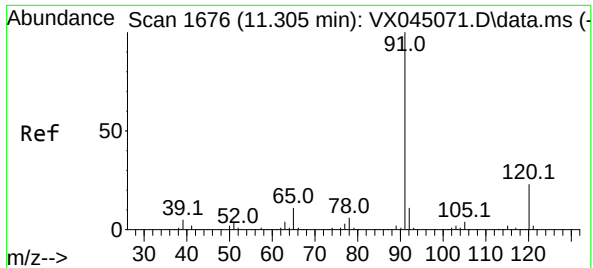


#77
Bromobenzene
Concen: 52.227 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09



Tgt Ion:156 Resp: 64652
Ion Ratio Lower Upper
156 100
77 173.8 85.8 257.4
158 97.2 48.4 145.2





#78

n-propylbenzene

Concen: 56.356 ug/l

RT: 11.304 min Scan# 1676

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS

Tgt Ion: 91 Resp: 33401

Ion Ratio Lower Upper

91 100

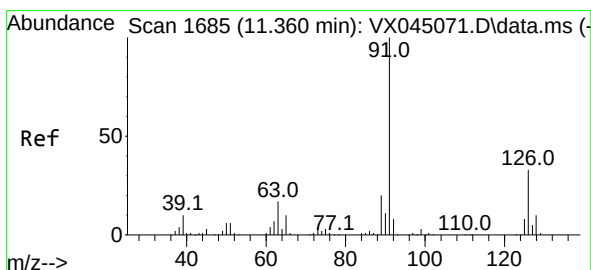
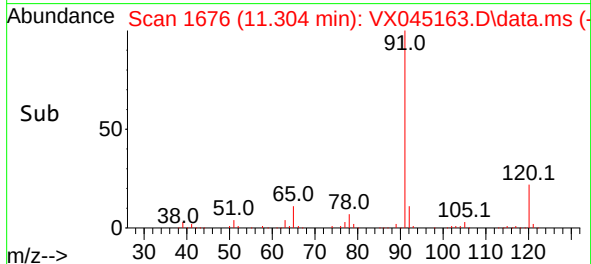
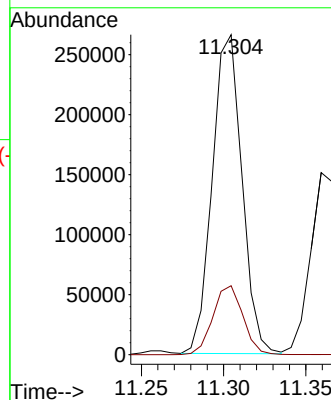
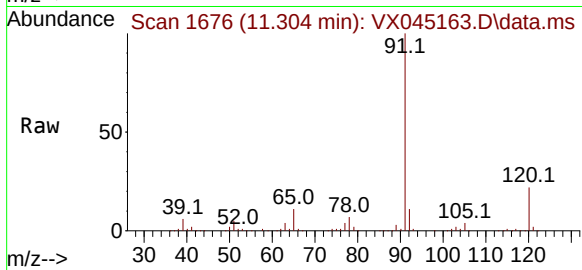
120 21.9 11.2 33.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#79

2-Chlorotoluene

Concen: 52.161 ug/l

RT: 11.359 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VX045163.D

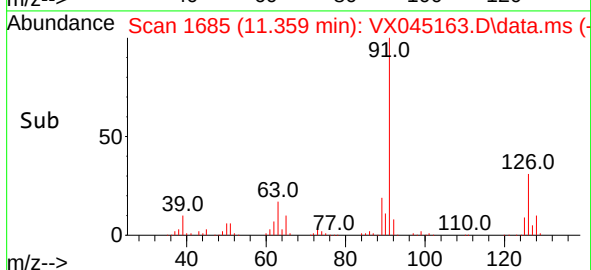
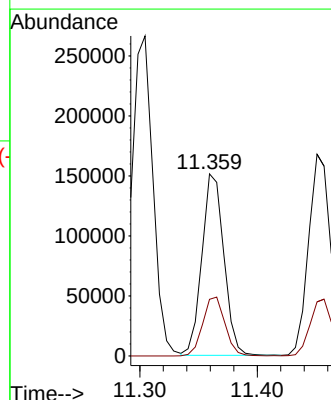
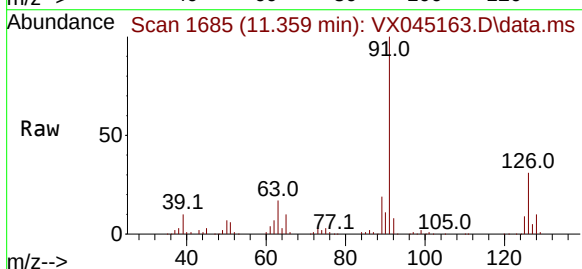
Acq: 06 Mar 2025 13:09

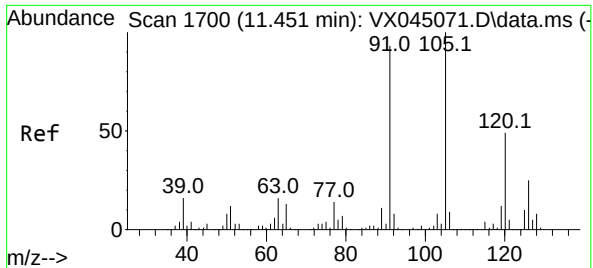
Tgt Ion: 91 Resp: 196885

Ion Ratio Lower Upper

91 100

126 33.0 16.4 49.4





#80

1,3,5-Trimethylbenzene

Concen: 54.826 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS

Tgt Ion:105 Resp: 232590

Ion Ratio Lower Upper

105 100

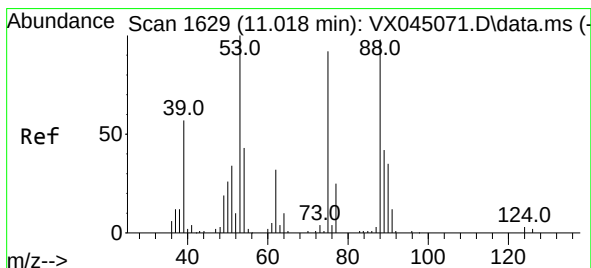
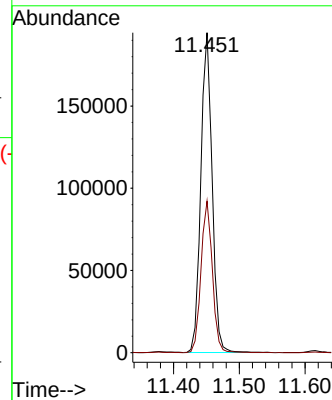
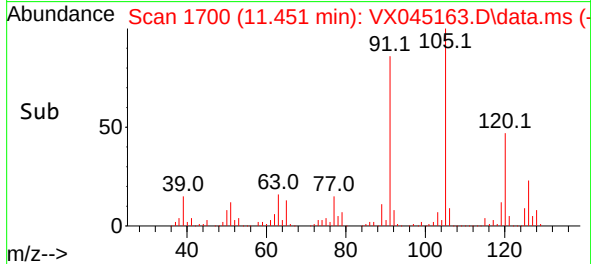
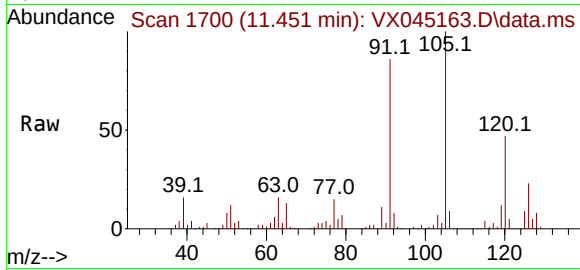
120 47.6 24.1 72.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#81

trans-1,4-Dichloro-2-butene

Concen: 50.887 ug/l

RT: 11.018 min Scan# 1629

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

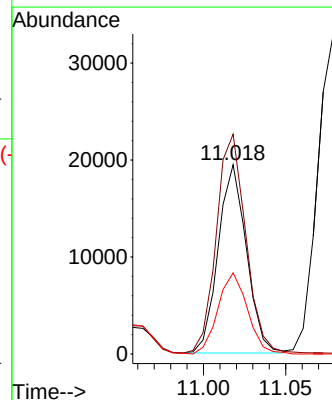
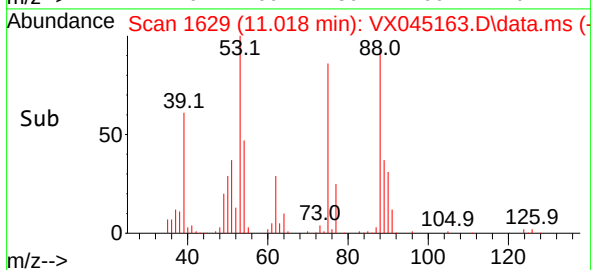
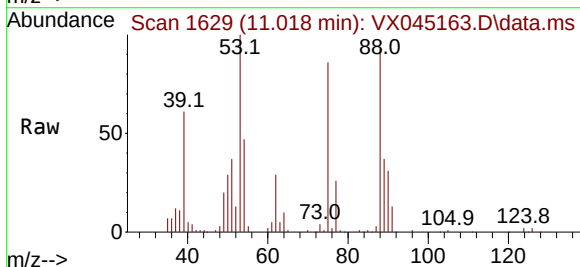
Tgt Ion: 75 Resp: 23264

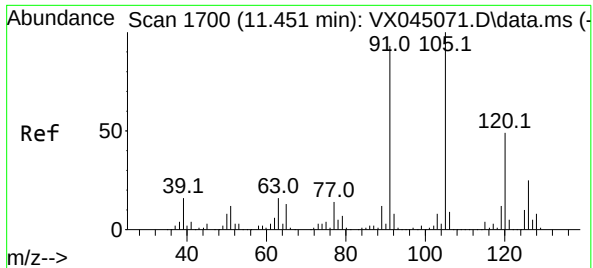
Ion Ratio Lower Upper

75 100

53 122.9 88.5 132.7

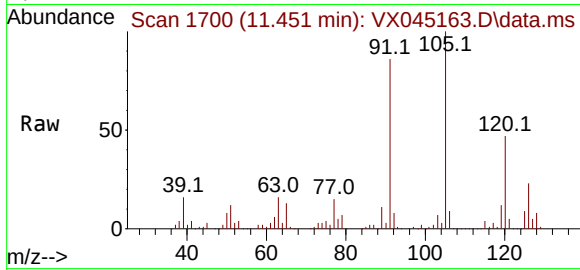
89 44.8 36.2 54.4





#82
4-Chlorotoluene
Concen: 54.023 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

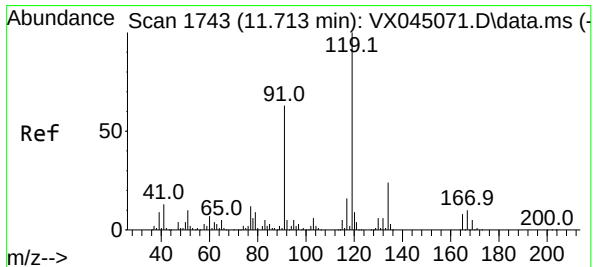
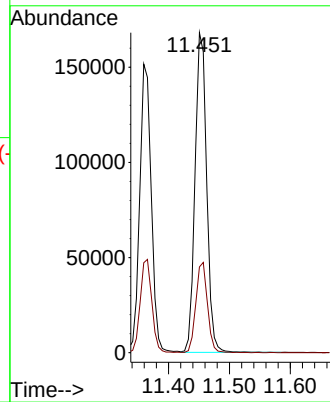
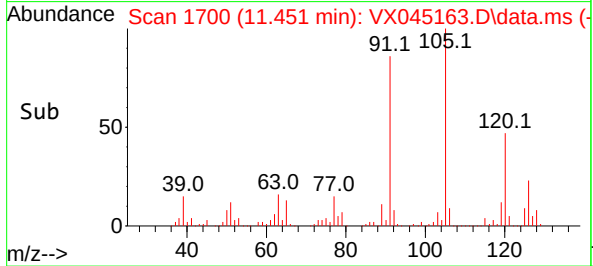
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS



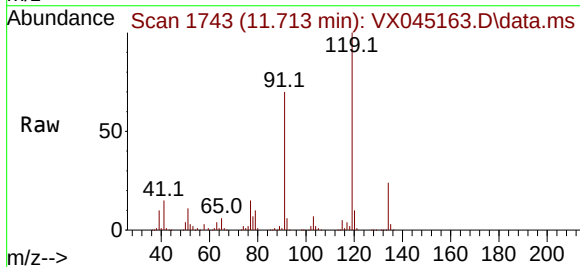
Tgt Ion: 91 Resp: 222235
Ion Ratio Lower Upper
91 100
126 28.2 14.1 42.4

Manual Integrations
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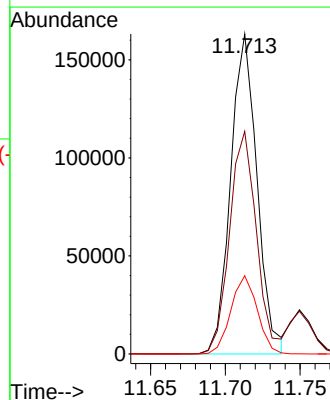
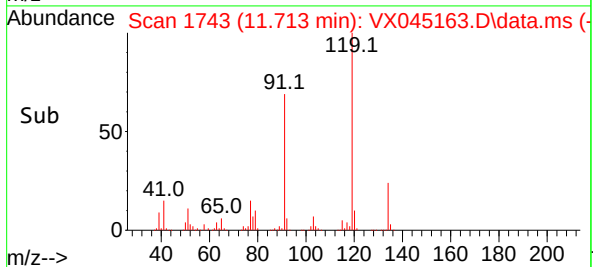
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

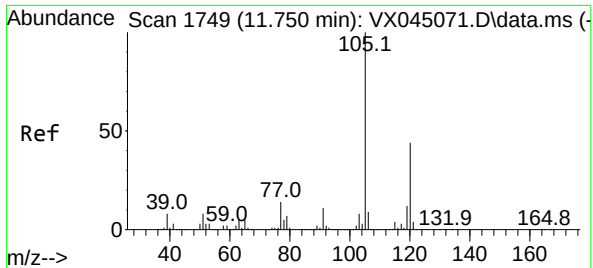


#83
tert-Butylbenzene
Concen: 46.003 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09



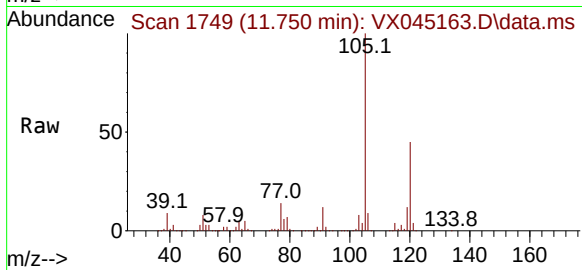
Tgt Ion:119 Resp: 200520
Ion Ratio Lower Upper
119 100
91 71.1 30.7 92.1
134 24.4 11.7 35.0





#84
1,2,4-Trimethylbenzene
Concen: 54.611 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

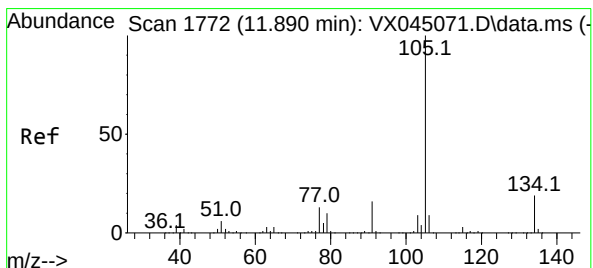
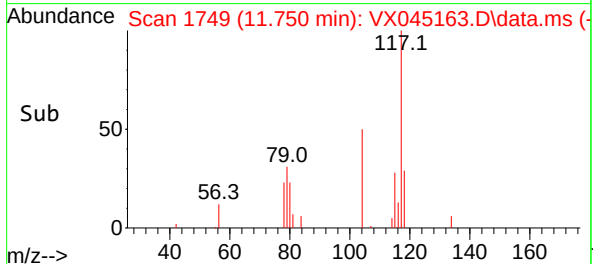
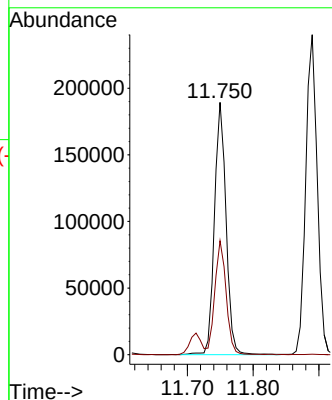
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS



Tgt Ion:105 Resp: 233112
Ion Ratio Lower Upper
105 100
120 44.2 22.1 66.1

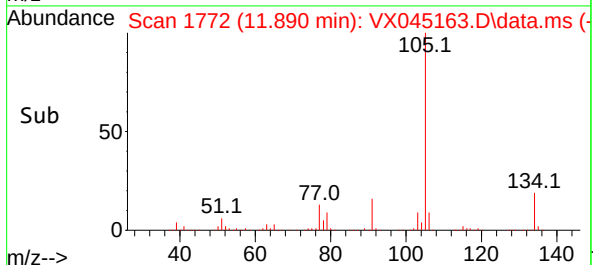
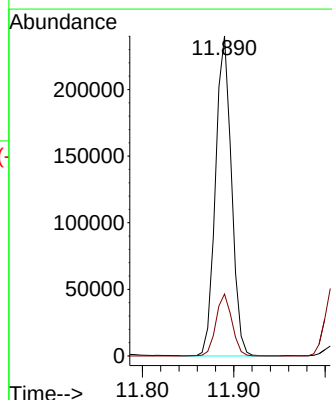
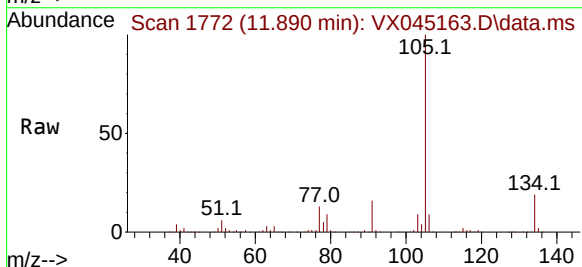
Manual Integrations
APPROVED

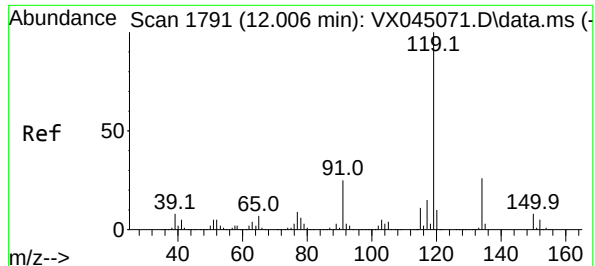
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#85
sec-Butylbenzene
Concen: 55.852 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

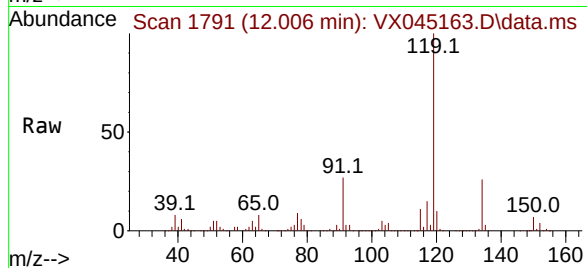
Tgt Ion:105 Resp: 291621
Ion Ratio Lower Upper
105 100
134 19.3 9.8 29.4





#86
p-Isopropyltoluene
Concen: 55.603 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

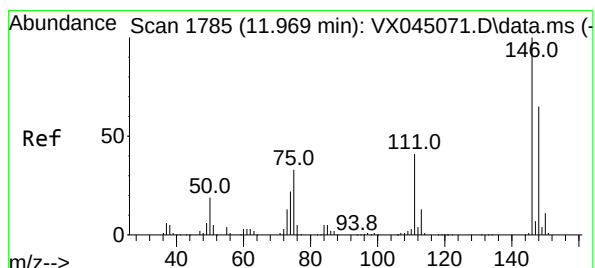
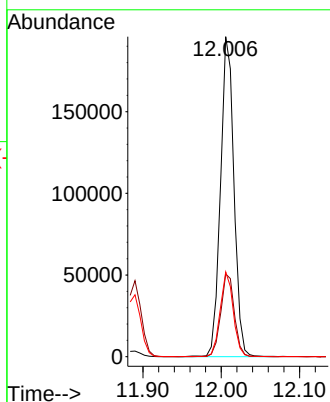
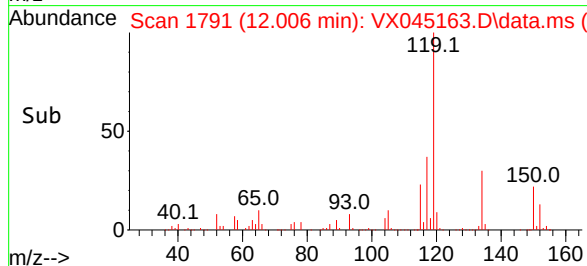
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS



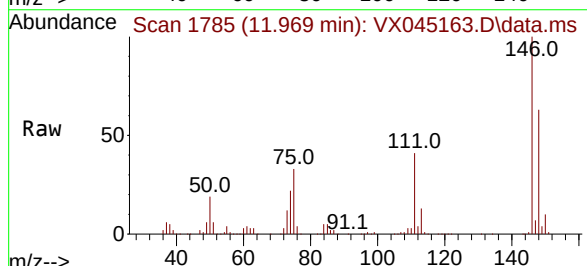
Tgt Ion:119 Resp: 23462
Ion Ratio Lower Upper
119 100
134 26.2 12.9 38.6
91 25.8 12.7 38.0

Manual Integrations
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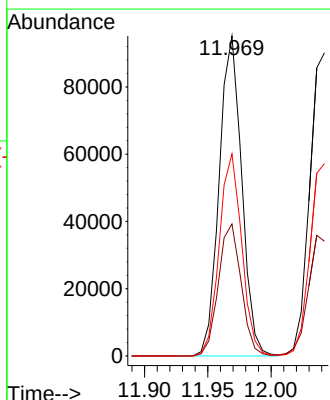
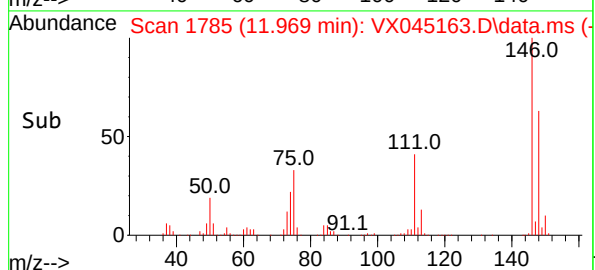
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

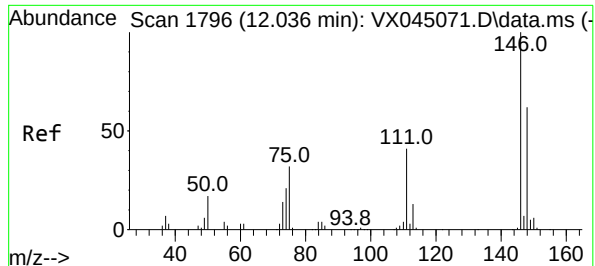


#87
1,3-Dichlorobenzene
Concen: 53.341 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09



Tgt Ion:146 Resp: 117796
Ion Ratio Lower Upper
146 100
111 41.7 21.1 63.4
148 63.0 31.9 95.7





#88

1,4-Dichlorobenzene

Concen: 51.585 ug/l

RT: 12.042 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS

Tgt Ion:146 Resp: 11525

Ion Ratio Lower Upper

146 100

111 40.5 20.2 60.5

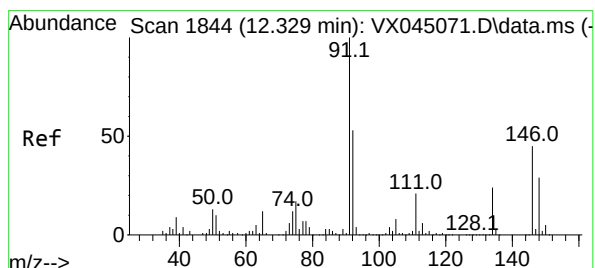
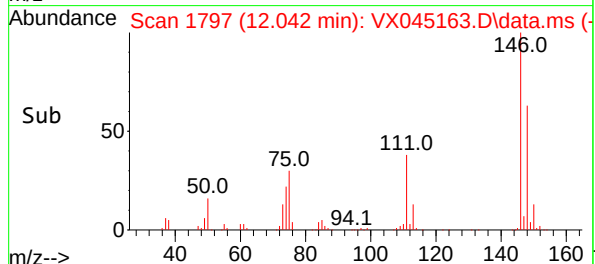
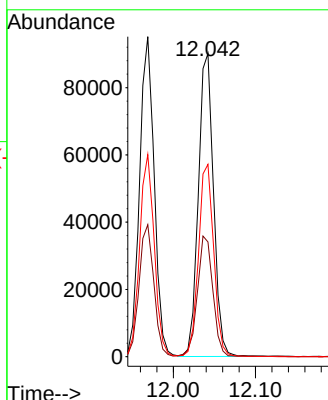
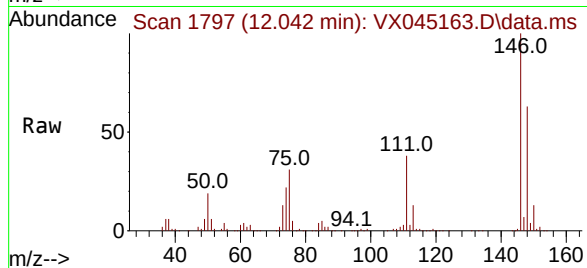
148 64.0 31.9 95.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#89

n-Butylbenzene

Concen: 57.787 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

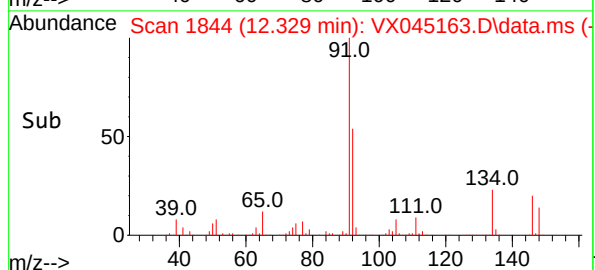
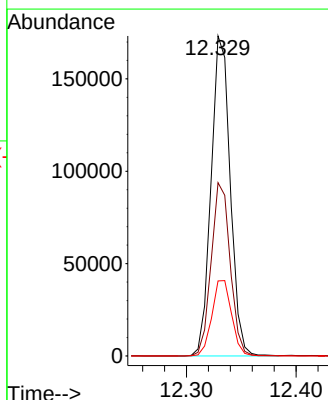
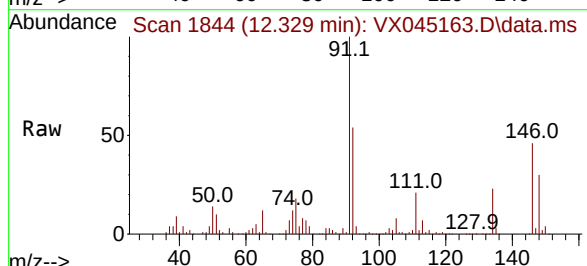
Tgt Ion: 91 Resp: 210010

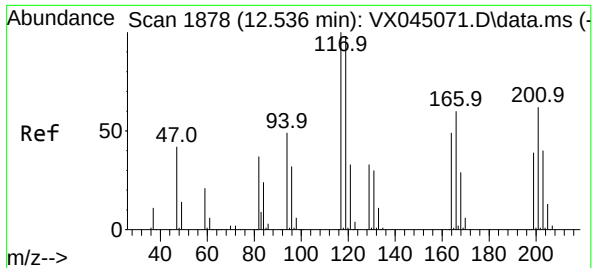
Ion Ratio Lower Upper

91 100

92 53.9 26.7 80.0

134 24.3 12.2 36.6





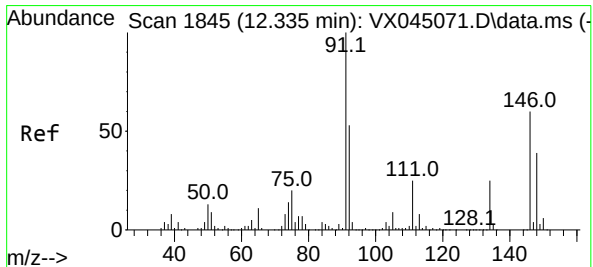
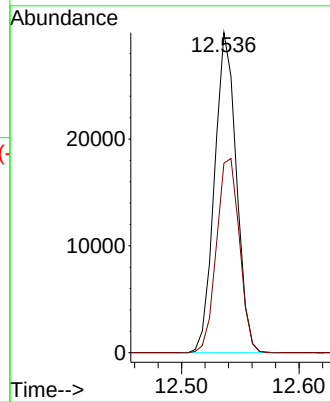
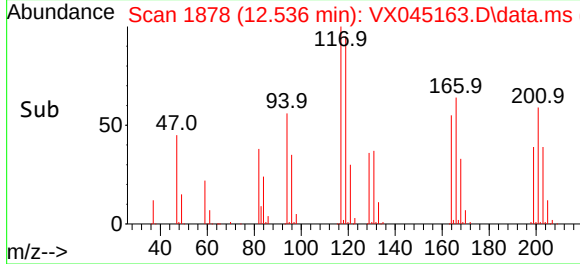
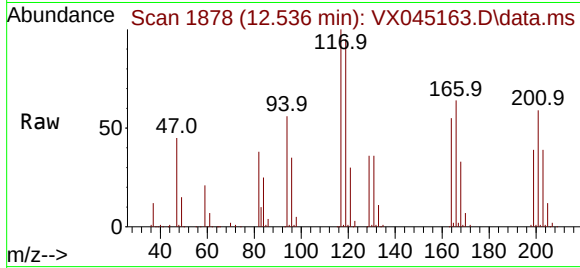
#90
Hexachloroethane
Concen: 50.874 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Tgt Ion:117 Resp: 38828
Ion Ratio Lower Upper
117 100
201 63.7 31.9 95.9

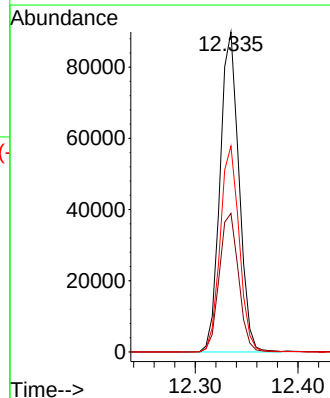
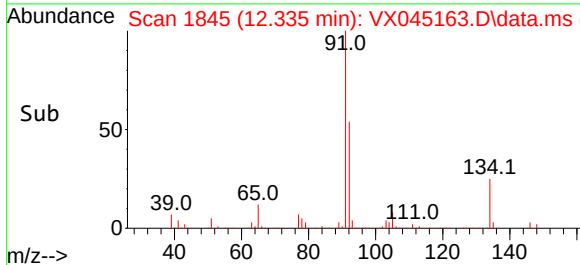
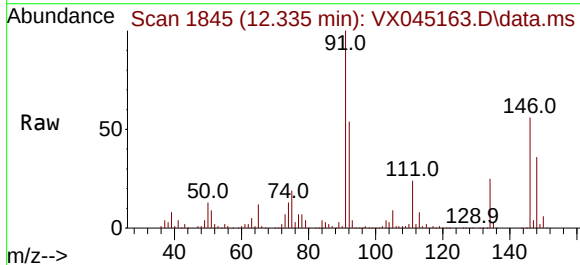
Manual Integrations
APPROVED

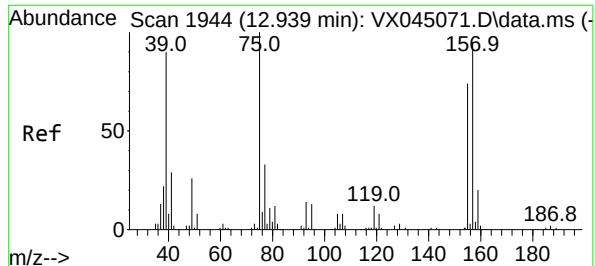
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#91
1,2-Dichlorobenzene
Concen: 51.761 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:146 Resp: 114665
Ion Ratio Lower Upper
146 100
111 44.2 21.6 65.0
148 64.9 31.9 95.9





#92

1,2-Dibromo-3-Chloropropane

Concen: 24.536 ug/l

RT: 12.938 min Scan# 1944

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS

Tgt Ion: 75 Resp: 920

Ion Ratio Lower Upper

75 100

155 81.2 39.6 118.7

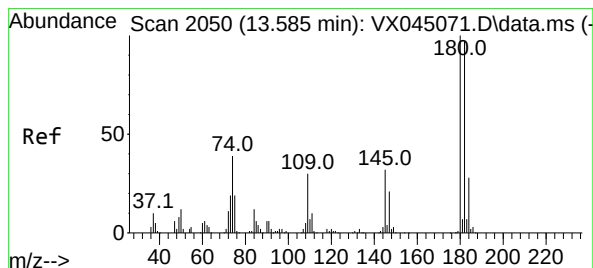
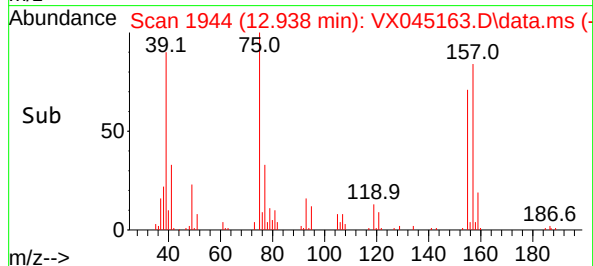
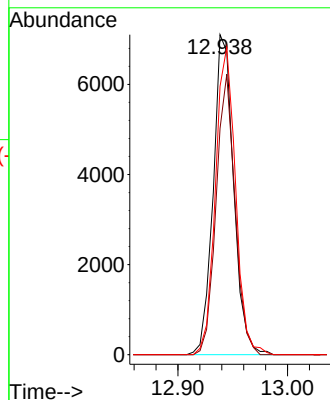
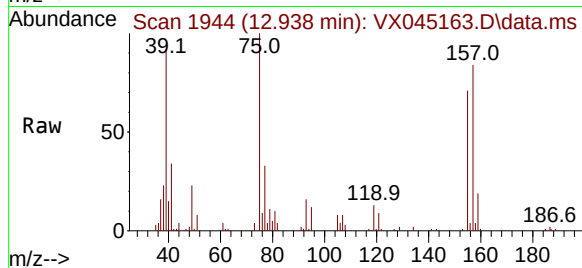
157 94.5 51.1 153.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#93

1,2,4-Trichlorobenzene

Concen: 54.535 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

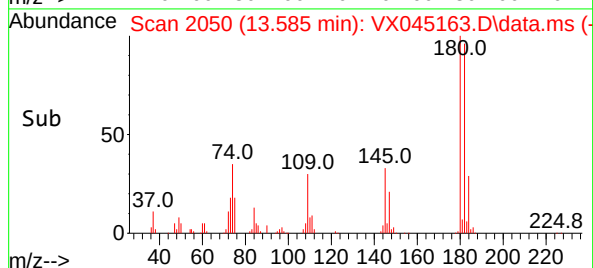
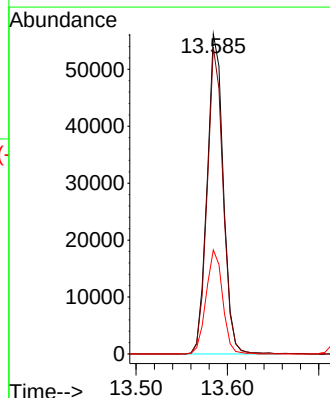
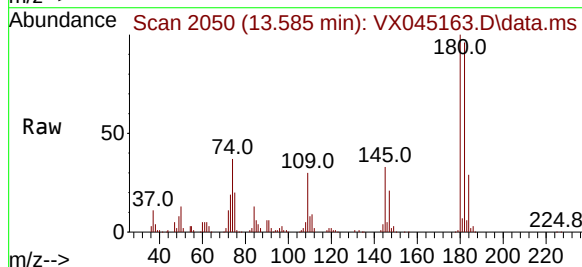
Tgt Ion:180 Resp: 68791

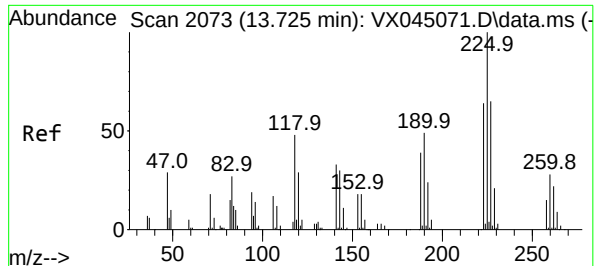
Ion Ratio Lower Upper

180 100

182 94.4 47.3 141.9

145 33.2 16.3 48.9





#94

Hexachlorobutadiene

Concen: 54.226 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MS

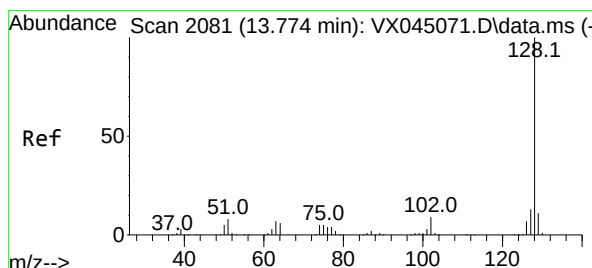
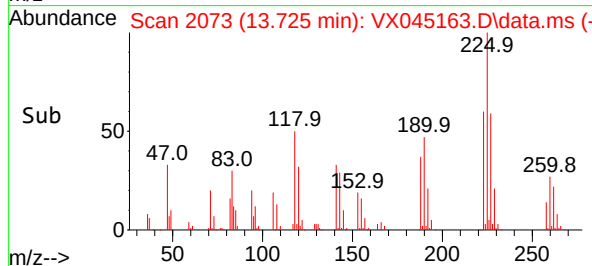
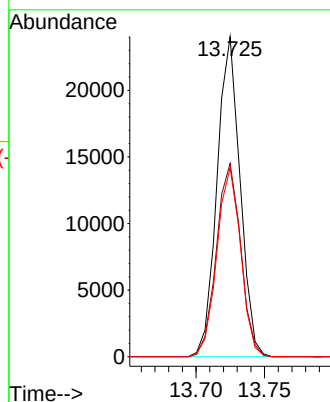
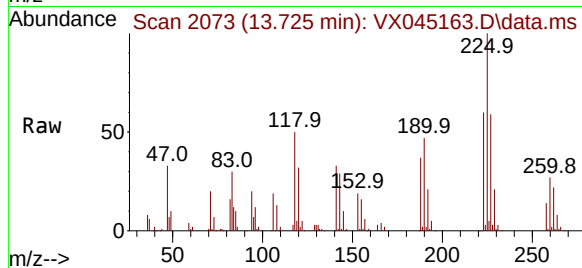
Tgt Ion:	225	Resp:	2804
Ion Ratio	Lower	Upper	
225	100		
223	63.6	31.9	95.7
227	60.8	31.4	94.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#95

Naphthalene

Concen: 54.845 ug/l

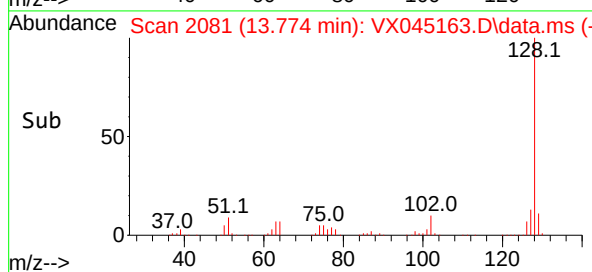
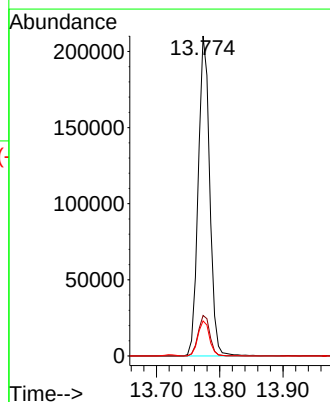
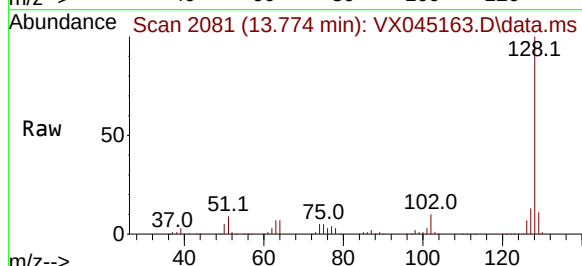
RT: 13.774 min Scan# 2081

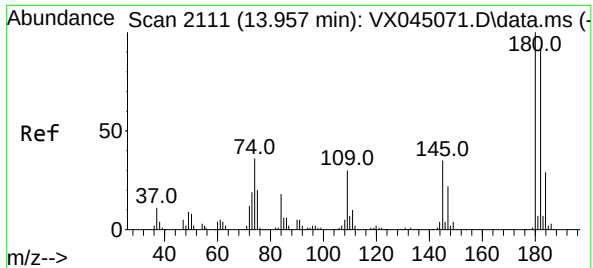
Delta R.T. -0.000 min

Lab File: VX045163.D

Acq: 06 Mar 2025 13:09

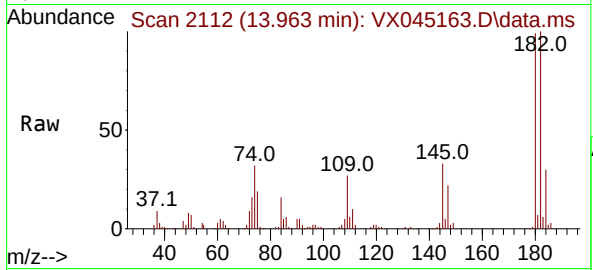
Tgt Ion:	128	Resp:	265803
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.3	15.5
129	11.1	8.7	13.1





#96
1,2,3-Trichlorobenzene
Concen: 52.700 ug/l
RT: 13.963 min Scan# 2111
Delta R.T. 0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

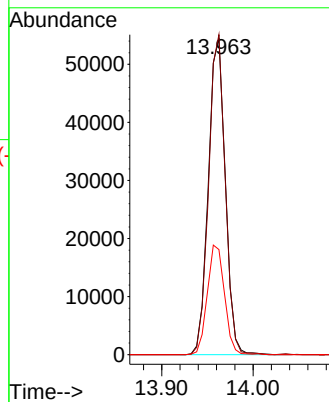
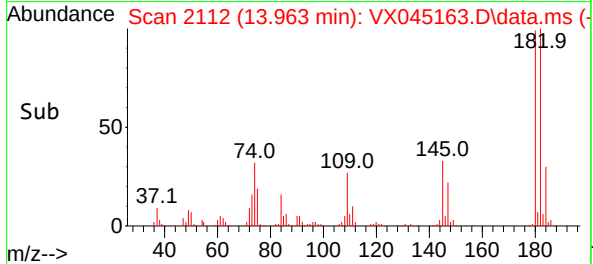
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS



Tgt Ion:180 Resp: 70129
Ion Ratio Lower Upper
180 100
182 98.5 47.5 142.6
145 35.1 17.0 50.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/05/25
Client Sample ID:	BR-05-465-030525MSD	SDG No.:	Q1488
Lab Sample ID:	Q1501-06MSD	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045164.D	1		03/06/25 13:33	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	43.3		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	73.0		0.26	1.00	ug/L
78-93-3	2-Butanone	280		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	47.3		0.25	1.00	ug/L
67-66-3	Chloroform	48.6		0.26	1.00	ug/L
71-43-2	Benzene	49.0		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	49.8		0.24	1.00	ug/L
79-01-6	Trichloroethene	91.5		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	85.3		0.25	1.00	ug/L
108-90-7	Chlorobenzene	49.8		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.2		70 (74) - 130 (125)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	0	*	70 (75) - 130 (124)	0%	SPK: 50
2037-26-5	Toluene-d8	48.1		70 (86) - 130 (113)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.8		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	101000	5.55			
540-36-3	1,4-Difluorobenzene	183000	6.757			
3114-55-4	Chlorobenzene-d5	155000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	68400	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045164.D
 Acq On : 06 Mar 2025 13:33
 Operator : JC/MD
 Sample : Q1501-06MSD
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BR-05-465-030525MSD

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/10/2025
 Supervised By : Mahesh Dadoda 03/10/2025

Quant Time: Mar 07 00:41:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	100565	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	182698	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	154927	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	68360	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	78636	49.159	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.320%		
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.000%#		
50) Toluene-d8	8.647	98	212901	48.071	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.140%		
62) 4-Bromofluorobenzene	11.079	95	71643	48.816	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	97.640%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	52592	41.546	ug/l	96
3) Chloromethane	1.307	50	67681	43.689	ug/l	100
4) Vinyl Chloride	1.374	62	66508	43.277	ug/l	97
5) Bromomethane	1.593	94	27968	46.294	ug/l	96
6) Chloroethane	1.672	64	37111	52.353	ug/l	99
7) Trichlorofluoromethane	1.874	101	94521	46.461	ug/l	100
8) Diethyl Ether	2.136	74	36224	45.522	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	54209	46.379	ug/l	99
10) Methyl Iodide	2.447	142	73533	50.342	ug/l	99
11) Tert butyl alcohol	2.977	59	59447	196.197	ug/l	99
12) 1,1-Dichloroethene	2.313	96	90255	73.038	ug/l	96
13) Acrolein	2.233	56	16708	47.702	ug/l	98
14) Allyl chloride	2.660	41	111224	50.564	ug/l	98
15) Acrylonitrile	3.062	53	192121	236.583	ug/l	100
16) Acetone	2.380	43	261029	351.705	ug/l	100
17) Carbon Disulfide	2.502	76	86177	26.183	ug/l	99
18) Methyl Acetate	2.709	43	4472	2.505	ug/l #	88
19) Methyl tert-butyl Ether	3.117	73	204923	49.428	ug/l	100
20) Methylene Chloride	2.782	84	68883	46.854	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	60413	49.486	ug/l	97
22) Diisopropyl ether	3.757	45	212844	47.578	ug/l #	84
24) 1,1-Dichloroethane	3.605	63	122367	48.807	ug/l	100
25) 2-Butanone	4.556	43	316746	283.527	ug/l	99
26) 2,2-Dichloropropane	4.465	77	77718	66.088	ug/l	97
27) cis-1,2-Dichloroethene	4.489	96	73559	48.810	ug/l	96
28) Bromochloromethane	4.891	49	56433	47.224	ug/l	100
29) Tetrahydrofuran	5.001	42	186941	249.177	ug/l	99
30) Chloroform	5.086	83	121146	48.631	ug/l	99
31) Cyclohexane	5.464	56	98498	45.259	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	99374	49.391	ug/l	98
36) 1,1-Dichloropropene	5.690	75	80938	48.310	ug/l	100
38) Carbon Tetrachloride	5.672	117	80499	47.327	ug/l	99
39) Methylcyclohexane	7.373	83	90498	45.080	ug/l	98
40) Benzene	6.031	78	259017	48.959	ug/l	98
41) Methacrylonitrile	4.916	41	59324	50.821	ug/l	97
42) 1,2-Dichloroethane	6.080	62	94946	49.838	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045164.D
 Acq On : 06 Mar 2025 13:33
 Operator : JC/MD
 Sample : Q1501-06MSD
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BR-05-465-030525MSD

Manual Integrations
 APPROVED

Reviewed By :John Carlone 03/10/2025
 Supervised By :Mahesh Dadoda 03/10/2025

Quant Time: Mar 07 00:41:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Trichloroethene	7.123	130	113651	91.488	ug/l	99
45) 1,2-Dichloropropane	7.428	63	65772	48.354	ug/l	98
46) Dibromomethane	7.580	93	48250	50.186	ug/l	99
47) Bromodichloromethane	7.818	83	65772	34.877	ug/l	98
49) 1,4-Dioxane	7.659	88	29006	858.601	ug/l #	94
51) 4-Methyl-2-Pentanone	8.574	43	554203	258.557	ug/l	99
52) Toluene	8.714	92	180949	58.295	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	80501	51.062	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	92567	50.352	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	19996	15.648	ug/l	97
57) 1,3-Dichloropropane	9.305	76	107755	48.727	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	266560	281.323	ug/l	99
59) 2-Hexanone	9.427	43	411304	264.842	ug/l	99
60) Dibromochloromethane	9.519	129	54948	41.126	ug/l	99
61) 1,2-Dibromoethane	9.610	107	62043	48.636	ug/l	100
64) Tetrachloroethene	9.269	164	84629	85.290	ug/l	99
65) Chlorobenzene	10.079	112	163317	49.819	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	45565	41.737	ug/l	98
67) Ethyl Benzene	10.189	91	291242	50.987	ug/l	99
68) m/p-Xylenes	10.299	106	215055	102.845	ug/l	100
69) o-Xylene	10.640	106	106073	50.296	ug/l	99
70) Styrene	10.653	104	175907	51.549	ug/l	99
71) Bromoform	10.799	173	39363	47.814	ug/l #	99
73) Isopropylbenzene	10.957	105	270349	50.668	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	73469m	46.175	ug/l	
77) Bromobenzene	11.195	156	62298	49.485	ug/l	100
78) n-propylbenzene	11.299	91	313137	51.952	ug/l	99
79) 2-Chlorotoluene	11.360	91	187387	48.816	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	219930	50.977	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	22368	48.110	ug/l	93
82) 4-Chlorotoluene	11.451	91	210926	50.418	ug/l	100
83) tert-Butylbenzene	11.713	119	191439	43.186	ug/l	90
84) 1,2,4-Trimethylbenzene	11.750	105	224549	51.727	ug/l	100
85) sec-Butylbenzene	11.890	105	274996	51.789	ug/l	99
86) p-Isopropyltoluene	12.006	119	222566	51.865	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	111489	49.643	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	109759	48.307	ug/l	99
89) n-Butylbenzene	12.329	91	198557	53.723	ug/l	99
90) Hexachloroethane	12.536	117	38087	49.070	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	110193	48.912	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	6556	17.187	ug/l	96
93) 1,2,4-Trichlorobenzene	13.585	180	64085	49.957	ug/l	99
94) Hexachlorobutadiene	13.725	225	25380	48.257	ug/l	98
95) Naphthalene	13.774	128	258663	52.481	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	68914	50.923	ug/l	98

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

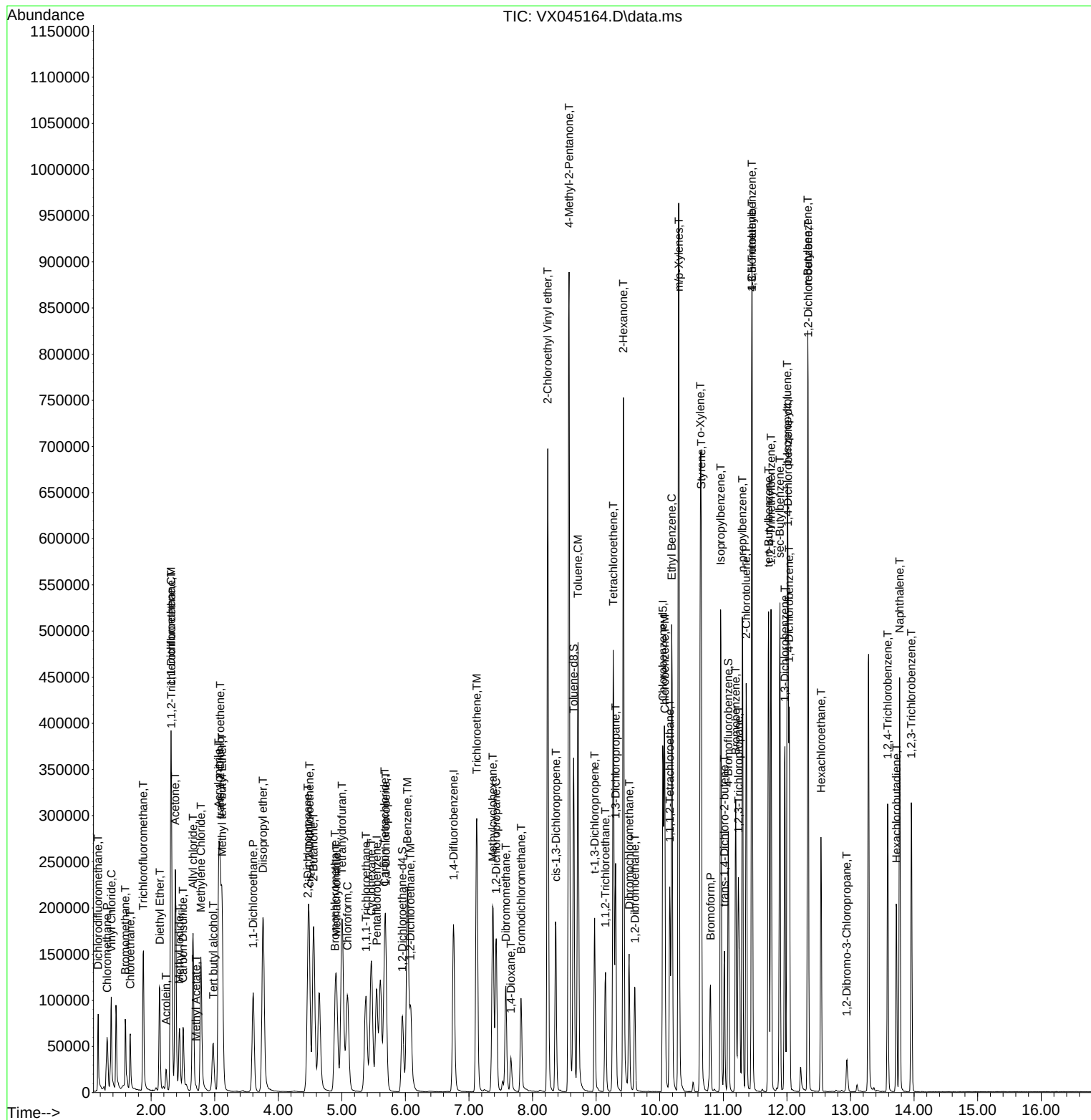
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045164.D
Acq On    : 06 Mar 2025  13:33
Operator  : JC/MD
Sample    : Q1501-06MSD
Misc      : 5.0mL/MSVOA_X/WATER
ALS Vial  : 12   Sample Multiplier: 1
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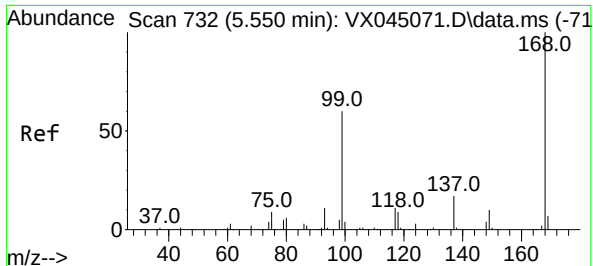
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

Quant Time: Mar 07 00:41:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration





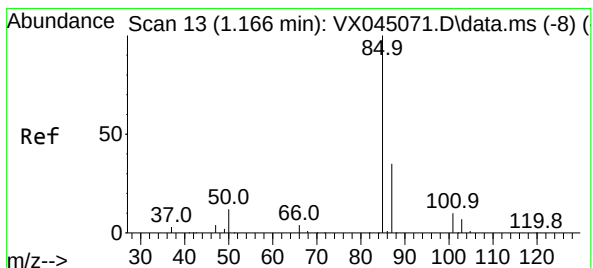
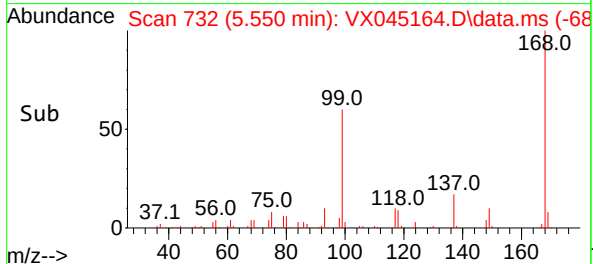
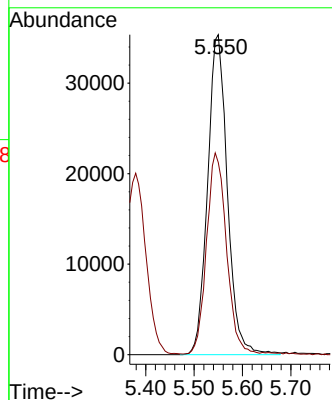
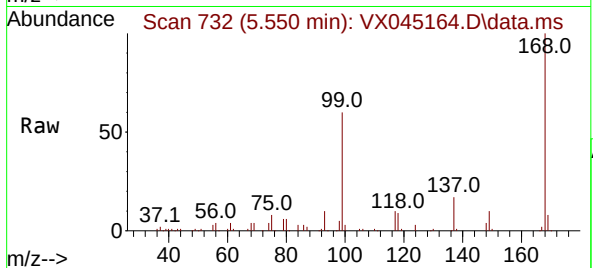
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Tgt Ion:168 Resp: 10056
Ion Ratio Lower Upper
168 100
99 59.8 48.2 72.4

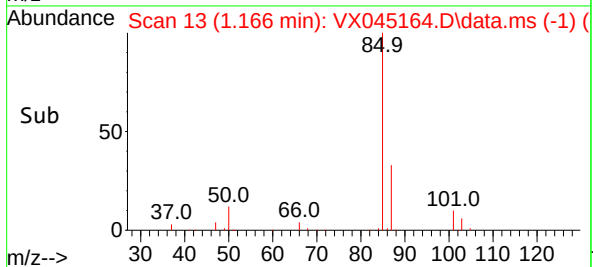
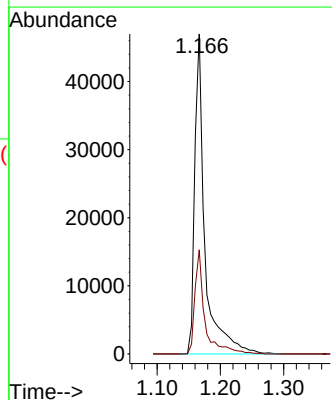
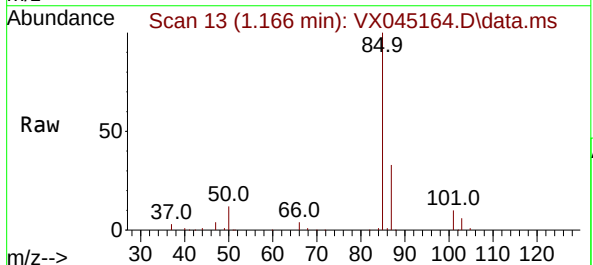
Manual Integrations
APPROVED

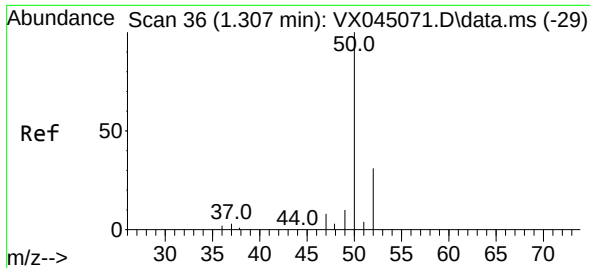
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#2
Dichlorodifluoromethane
Concen: 41.546 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 85 Resp: 52592
Ion Ratio Lower Upper
85 100
87 32.5 17.4 52.3





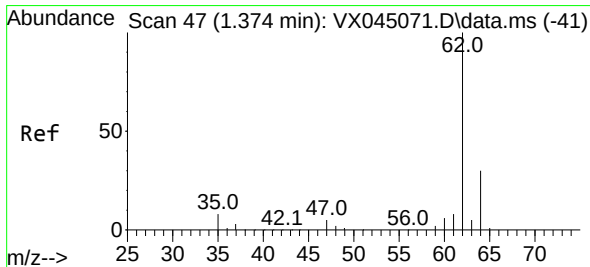
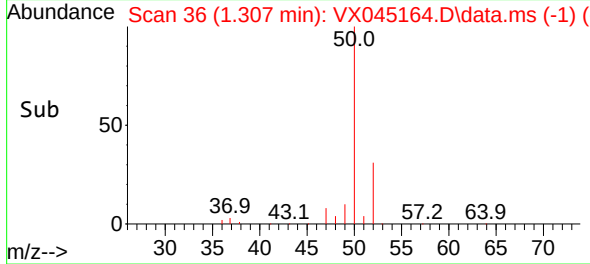
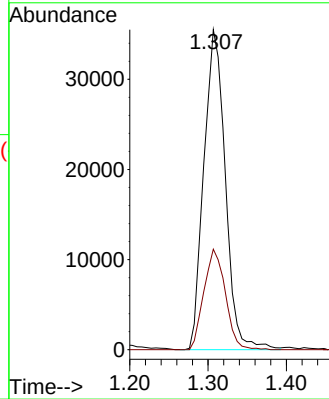
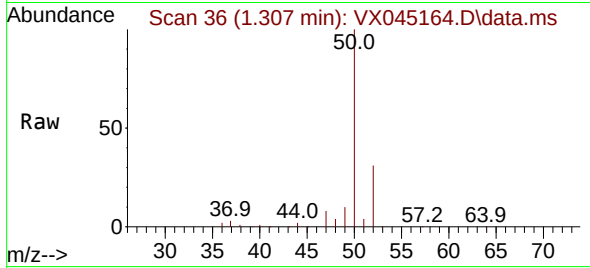
#3
Chloromethane
Concen: 43.689 ug/l
RT: 1.307 min Scan# 30
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Tgt Ion: 50 Resp: 6768
Ion Ratio Lower Upper
50 100
52 31.4 25.0 37.4

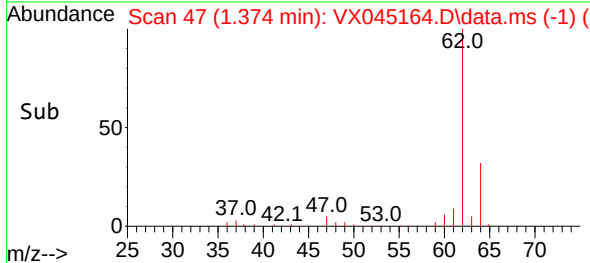
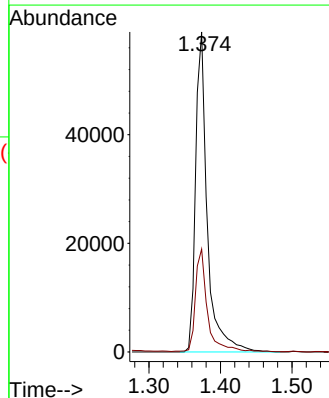
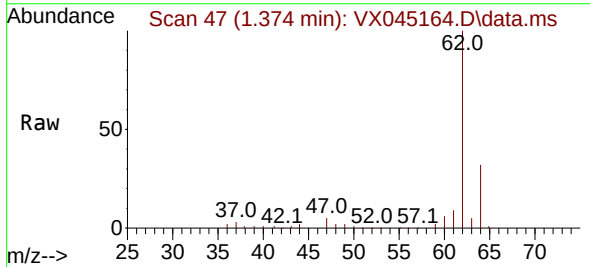
Manual Integrations
APPROVED

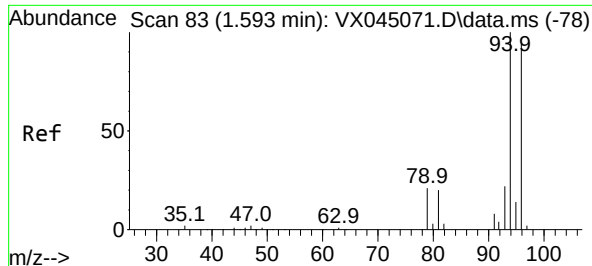
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#4
Vinyl Chloride
Concen: 43.277 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 62 Resp: 66508
Ion Ratio Lower Upper
62 100
64 32.1 24.3 36.5





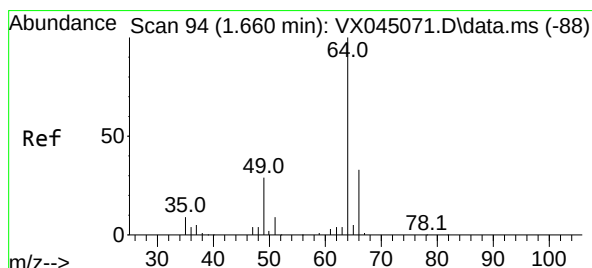
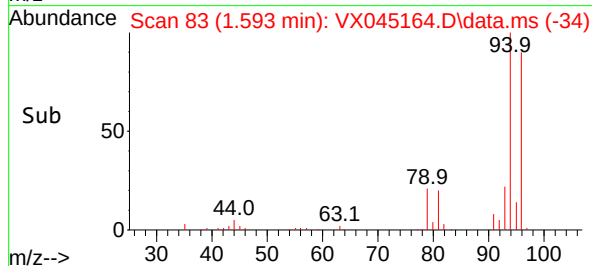
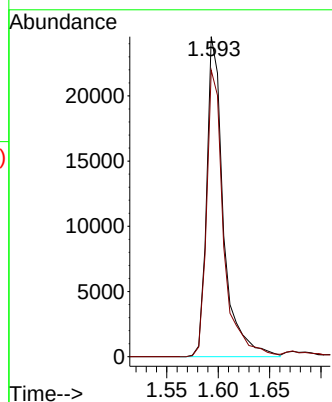
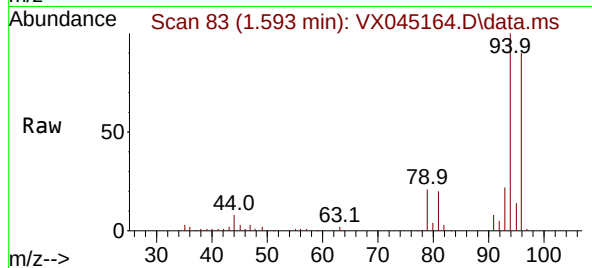
#5
Bromomethane
Concen: 46.294 ug/l
RT: 1.593 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Tgt Ion: 94 Resp: 27968
Ion Ratio Lower Upper
94 100
96 89.5 75.0 112.4

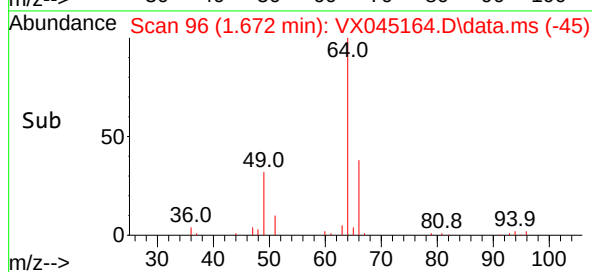
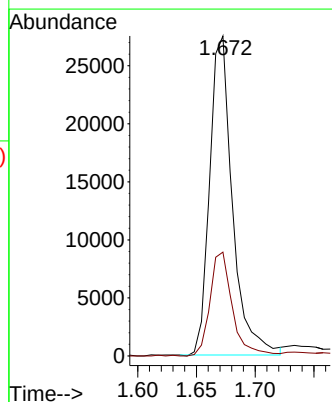
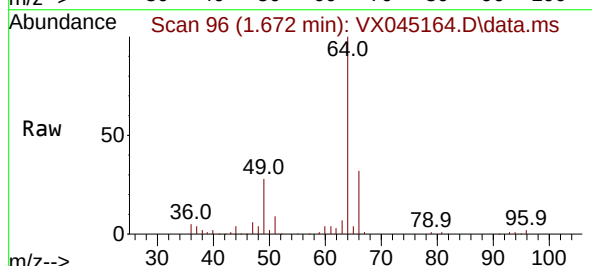
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APPROVED

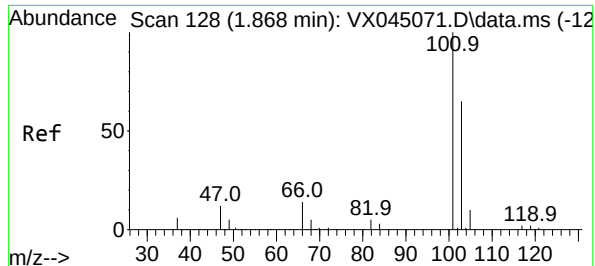
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#6
Chloroethane
Concen: 52.353 ug/l
RT: 1.672 min Scan# 96
Delta R.T. 0.012 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

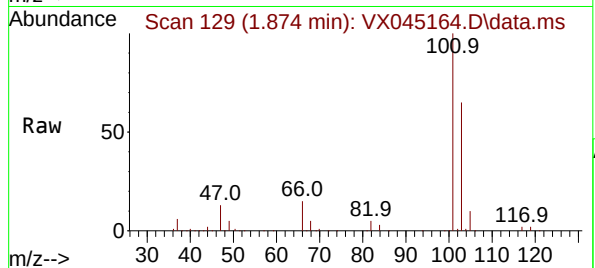
Tgt Ion: 64 Resp: 37111
Ion Ratio Lower Upper
64 100
66 32.5 26.7 40.1





#7
Trichlorofluoromethane
Concen: 46.461 ug/l
RT: 1.874 min Scan# 101
Delta R.T. 0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

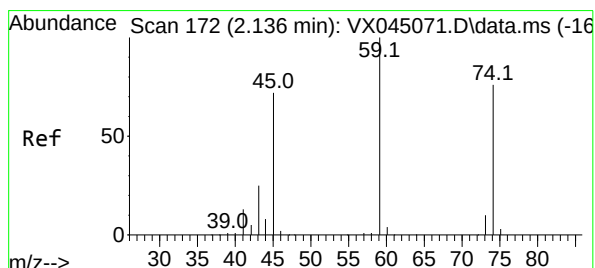
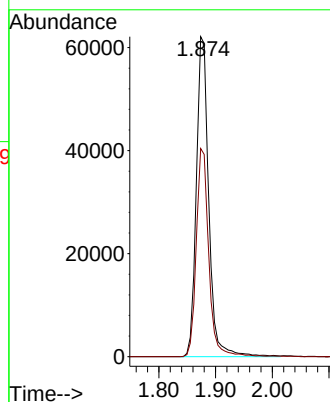
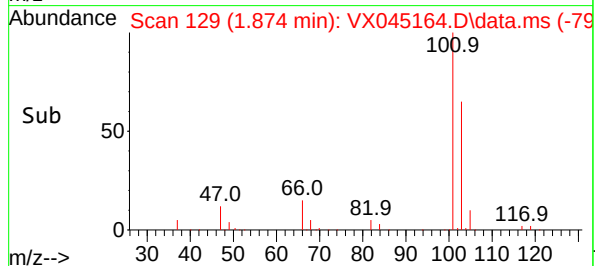
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD



Tgt Ion:101 Resp: 9452
Ion Ratio Lower Upper
101 100
103 65.0 52.1 78.1

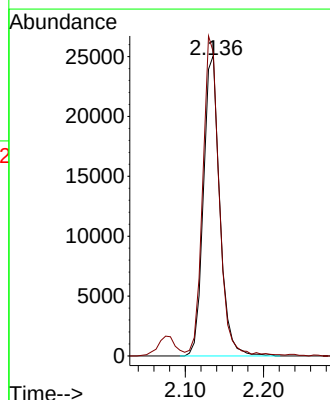
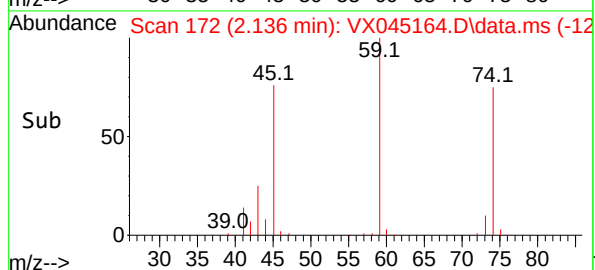
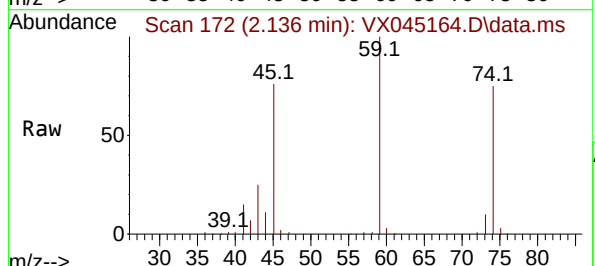
Manual Integrations
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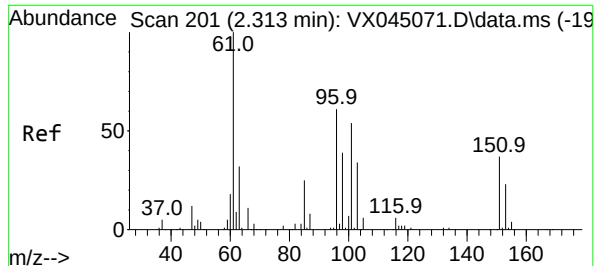
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#8
Diethyl Ether
Concen: 45.522 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 74 Resp: 36224
Ion Ratio Lower Upper
74 100
45 106.3 51.5 154.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.379 ug/l

RT: 2.319 min Scan# 201

Delta R.T. 0.006 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MSD

Tgt Ion:101 Resp: 54209

Ion Ratio Lower Upper

101 100

85 45.5 36.2 54.4

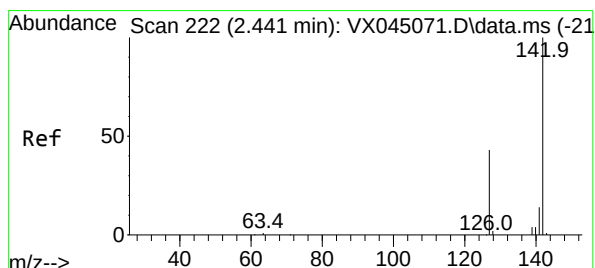
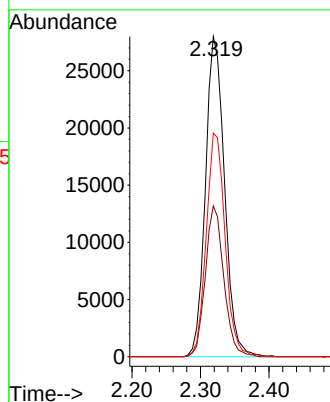
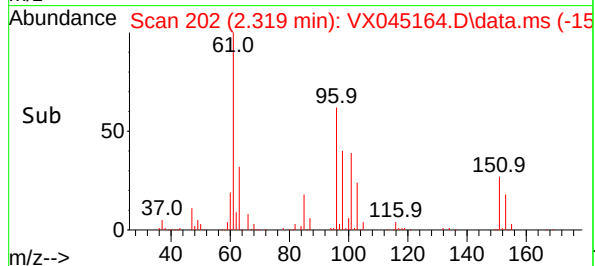
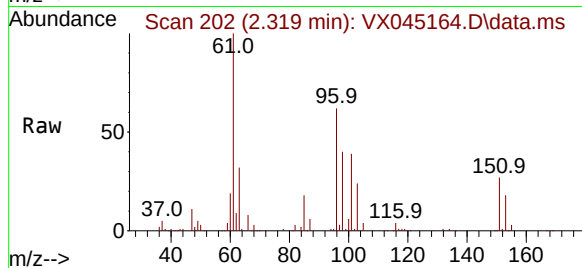
151 69.1 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#10

Methyl Iodide

Concen: 50.342 ug/l

RT: 2.447 min Scan# 223

Delta R.T. 0.006 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

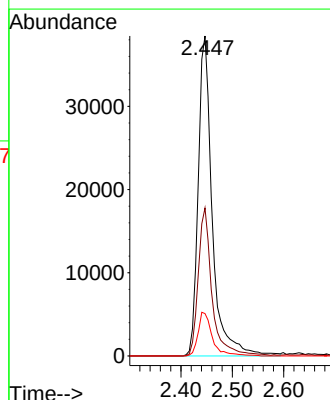
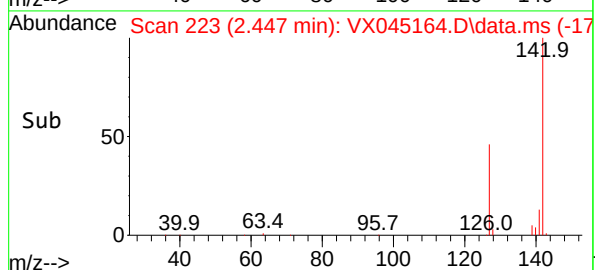
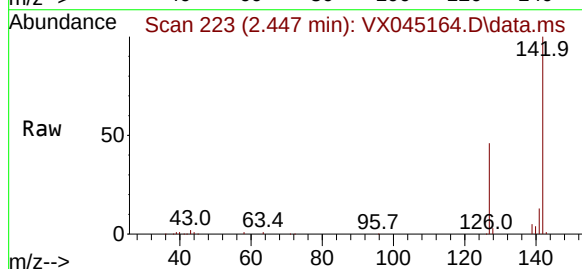
Tgt Ion:142 Resp: 73533

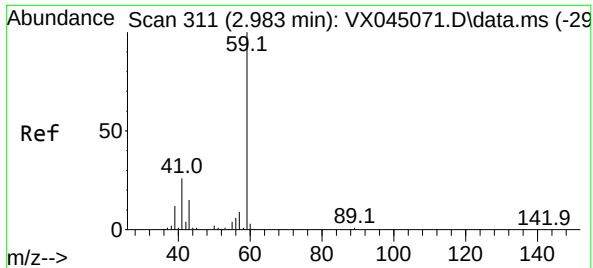
Ion Ratio Lower Upper

142 100

127 45.2 35.4 53.2

141 13.8 11.6 17.4





#11

Tert butyl alcohol

Concen: 196.197 ug/l

RT: 2.977 min Scan# 311

Delta R.T. -0.006 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MSD

Tgt Ion: 59 Resp: 5944

Ion Ratio Lower Upper

59 100

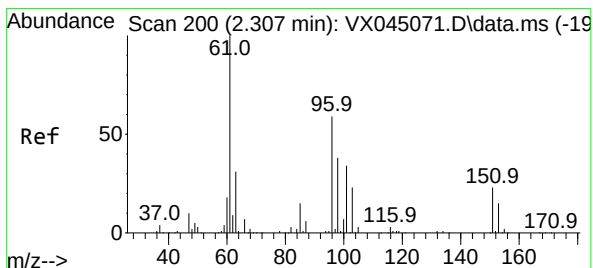
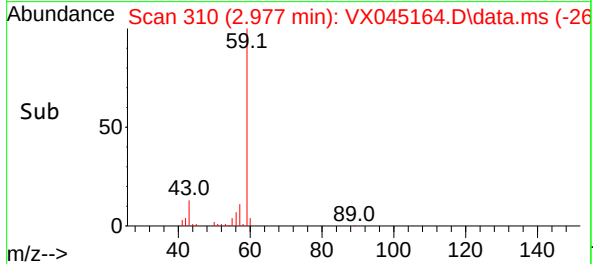
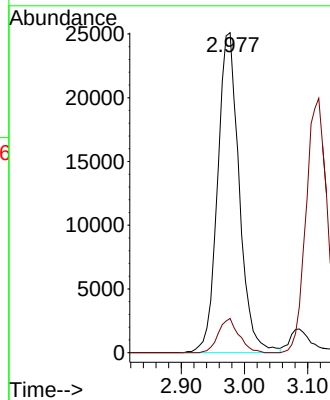
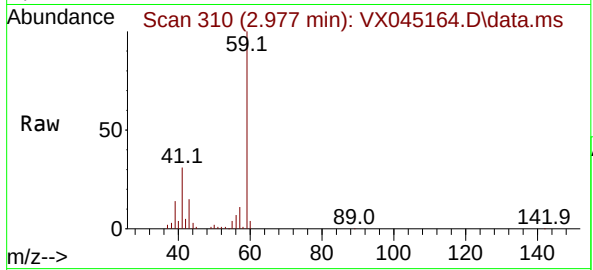
57 10.2 7.8 11.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#12

1,1-Dichloroethene

Concen: 73.038 ug/l

RT: 2.313 min Scan# 201

Delta R.T. 0.006 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

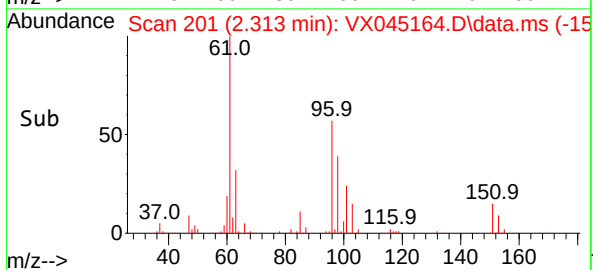
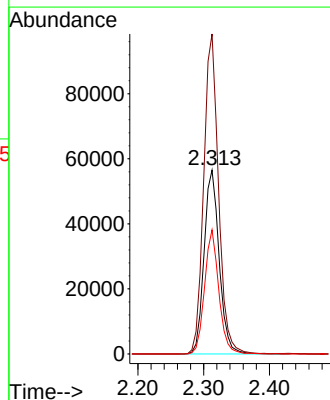
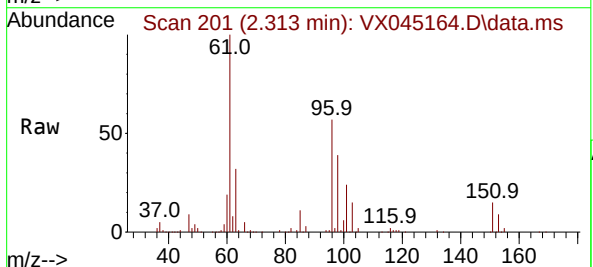
Tgt Ion: 96 Resp: 90255

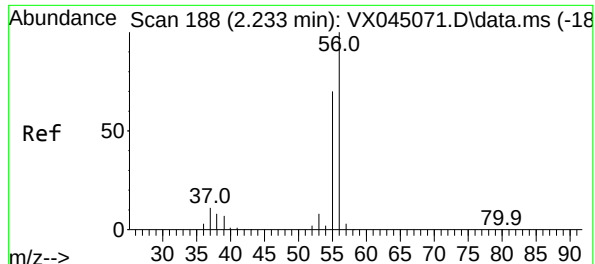
Ion Ratio Lower Upper

96 100

61 174.0 134.6 202.0

98 67.5 51.0 76.6





#13

Acrolein

Concen: 47.702 ug/l

RT: 2.233 min Scan# 188

Delta R.T. 0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MSD

Tgt Ion: 56 Resp: 16708

Ion Ratio Lower Upper

56 100

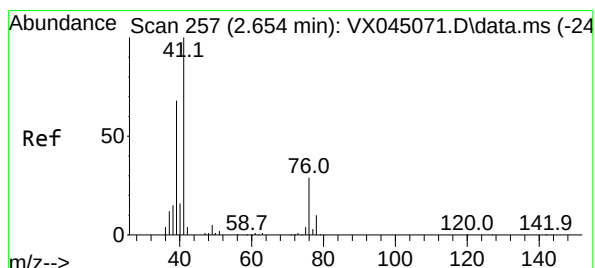
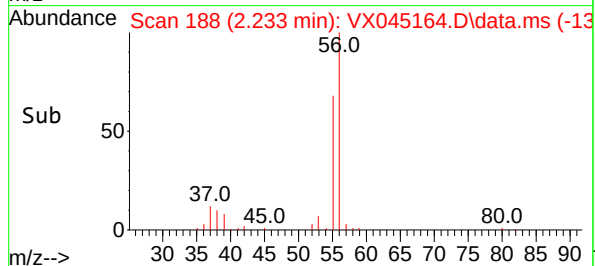
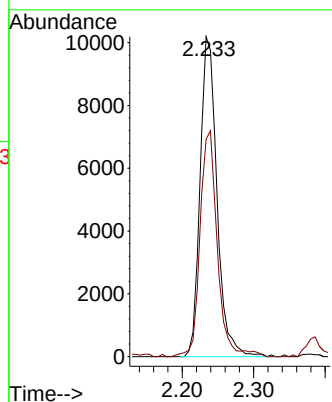
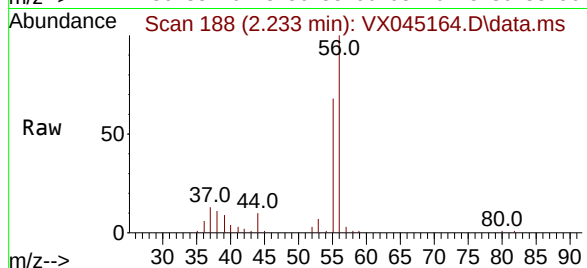
55 72.2 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#14

Allyl chloride

Concen: 50.564 ug/l

RT: 2.660 min Scan# 258

Delta R.T. 0.006 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

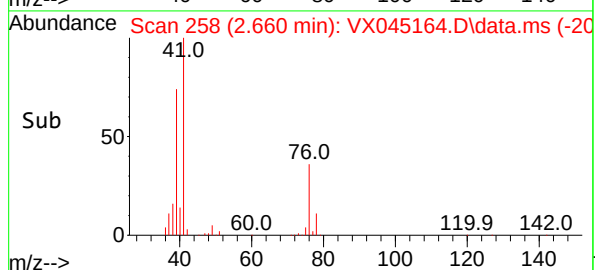
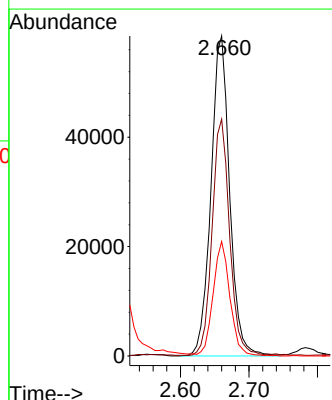
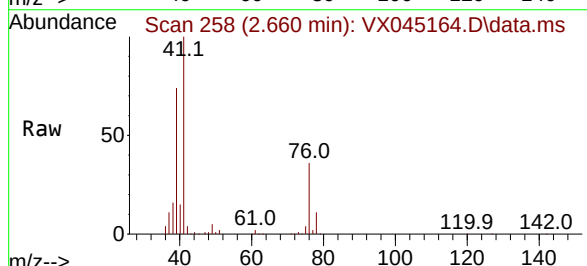
Tgt Ion: 41 Resp: 111224

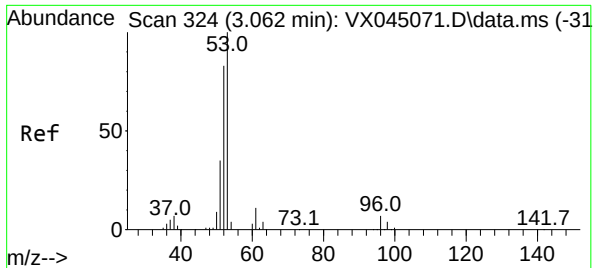
Ion Ratio Lower Upper

41 100

39 68.8 53.8 80.8

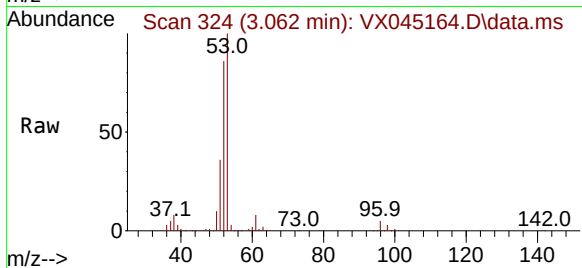
76 32.4 25.2 37.8





#15
Acrylonitrile
Concen: 236.583 ug/l
RT: 3.062 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

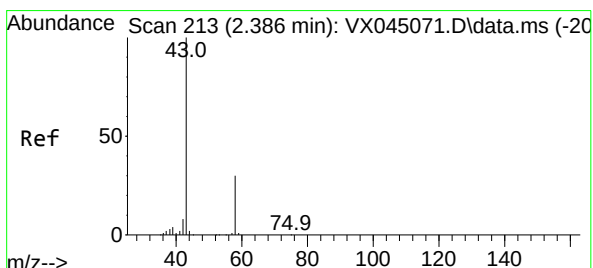
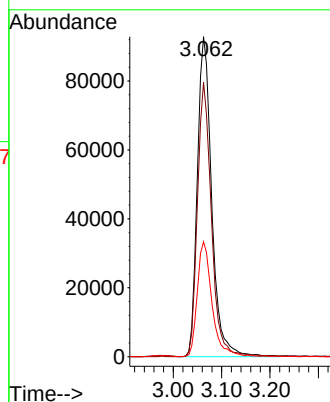
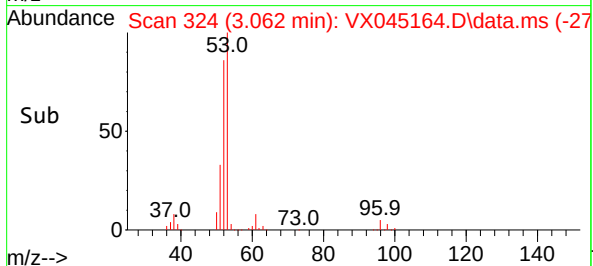
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD



Tgt Ion: 53 Resp: 19212
Ion Ratio Lower Upper
53 100
52 83.1 66.2 99.2
51 36.4 29.0 43.4

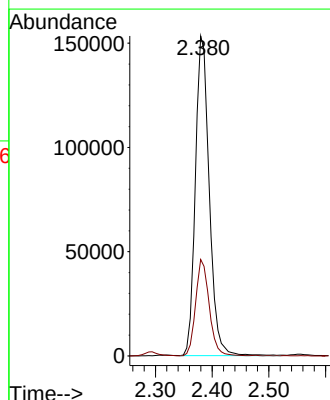
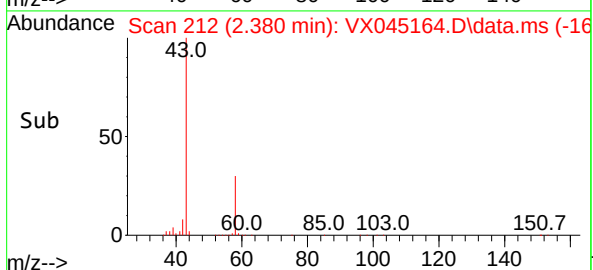
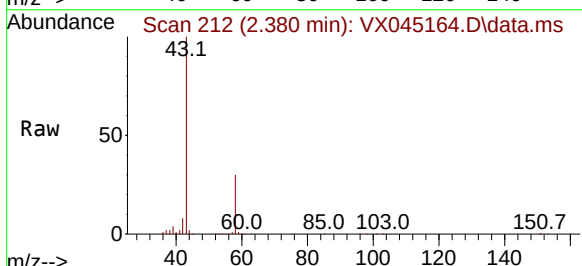
Manual Integrations
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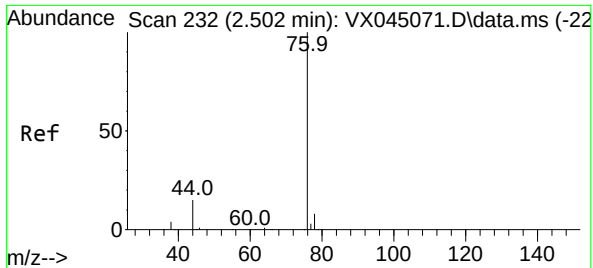
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#16
Acetone
Concen: 351.705 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 43 Resp: 261029
Ion Ratio Lower Upper
43 100
58 30.1 24.2 36.4





#17

Carbon Disulfide

Concen: 26.183 ug/l

RT: 2.502 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MSD

Tgt Ion: 76 Resp: 8617

Ion Ratio Lower Upper

76 100

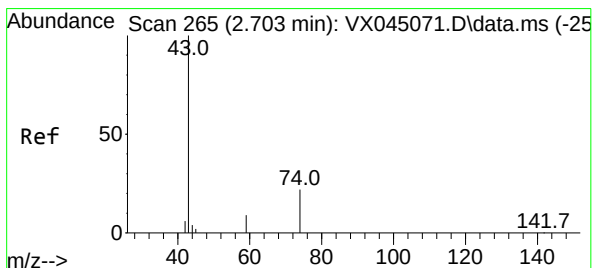
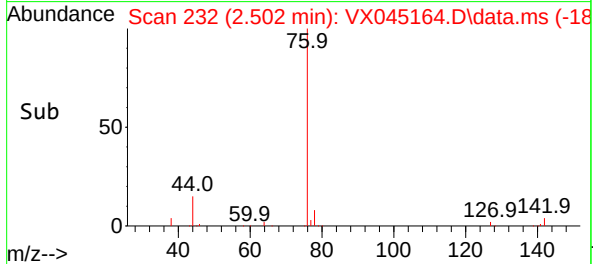
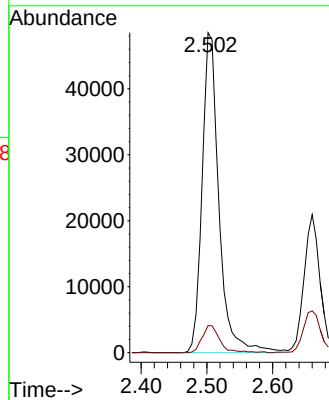
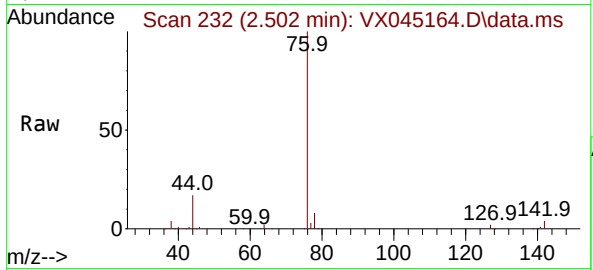
78 8.5 6.6 9.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#18

Methyl Acetate

Concen: 2.505 ug/l

RT: 2.709 min Scan# 266

Delta R.T. 0.006 min

Lab File: VX045164.D

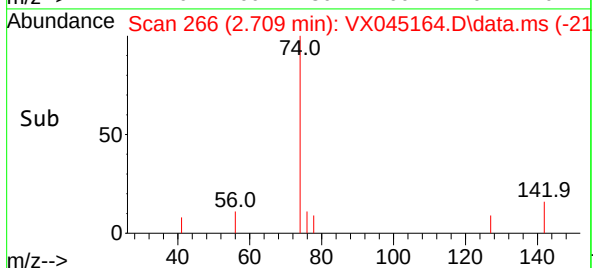
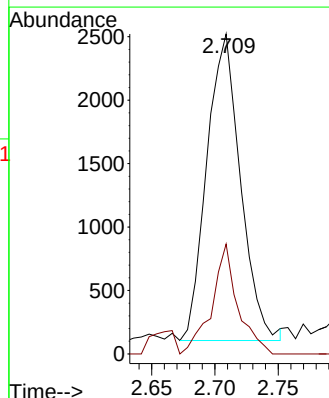
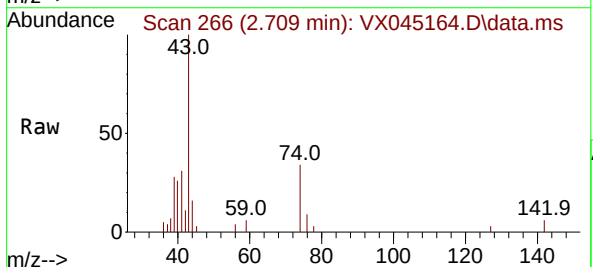
Acq: 06 Mar 2025 13:33

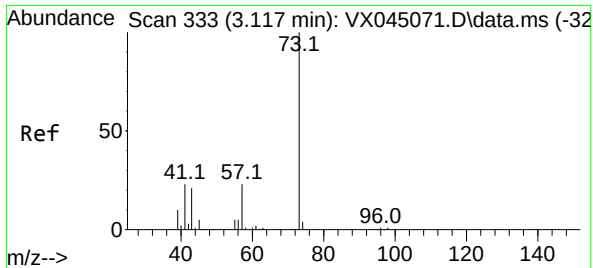
Tgt Ion: 43 Resp: 4472

Ion Ratio Lower Upper

43 100

74 27.5 17.4 26.2#





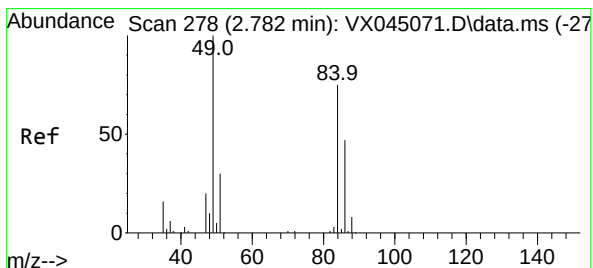
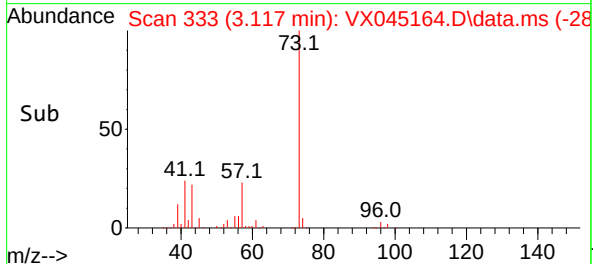
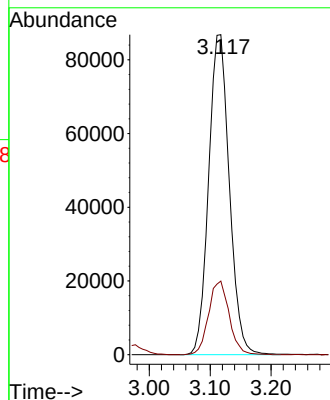
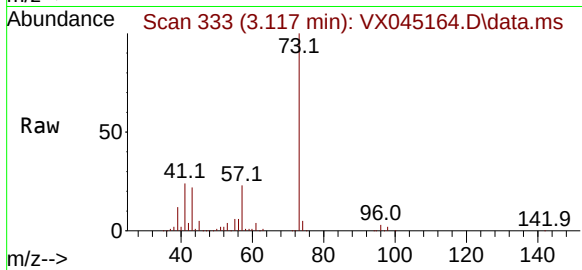
#19
Methyl tert-butyl Ether
Concen: 49.428 ug/l
RT: 3.117 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Tgt Ion: 73 Resp: 20492
Ion Ratio Lower Upper
73 100
57 23.0 18.5 27.7

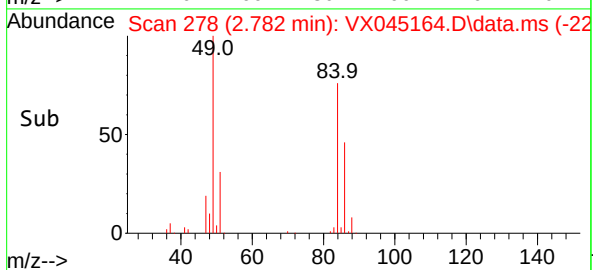
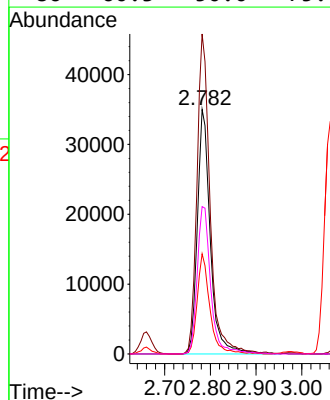
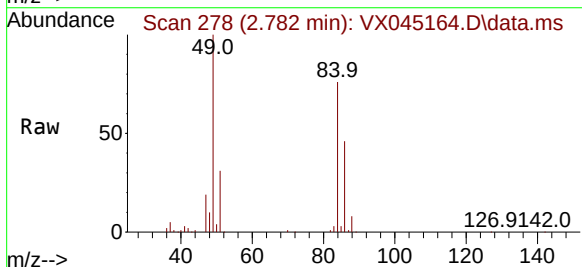
Manual Integrations
APPROVED

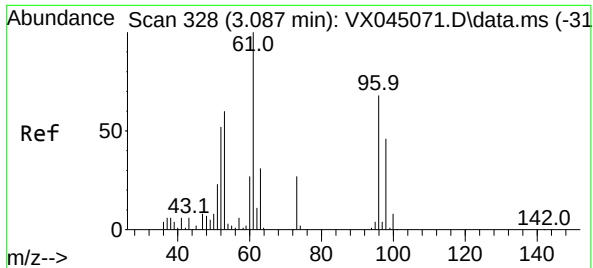
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#20
Methylene Chloride
Concen: 46.854 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

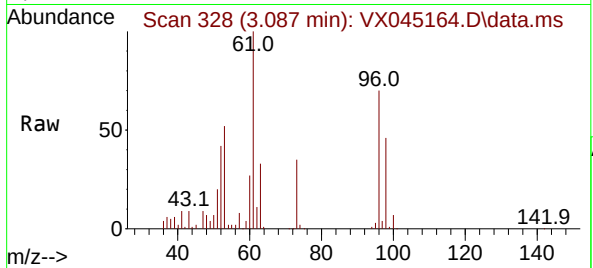
Tgt Ion: 84 Resp: 68883
Ion Ratio Lower Upper
84 100
49 130.9 106.5 159.7
51 40.9 32.1 48.1
86 60.3 50.0 75.0





#21
trans-1,2-Dichloroethene
Concen: 49.486 ug/l
RT: 3.087 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

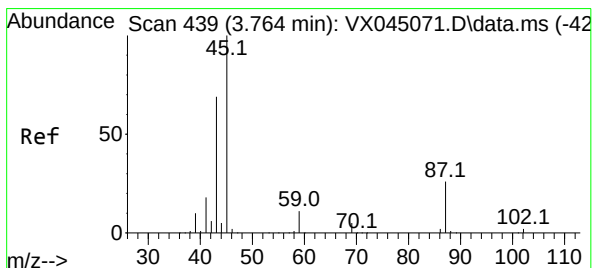
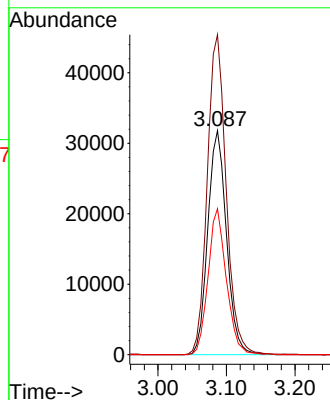
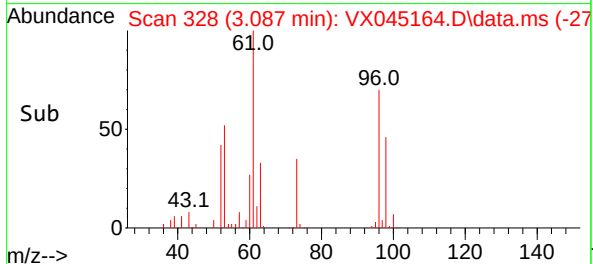
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD



Tgt Ion: 96 Resp: 6041
Ion Ratio Lower Upper
96 100
61 142.8 117.0 175.4
98 65.1 53.4 80.2

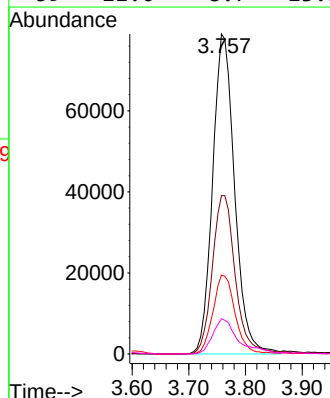
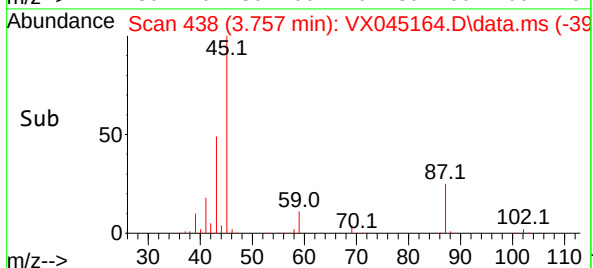
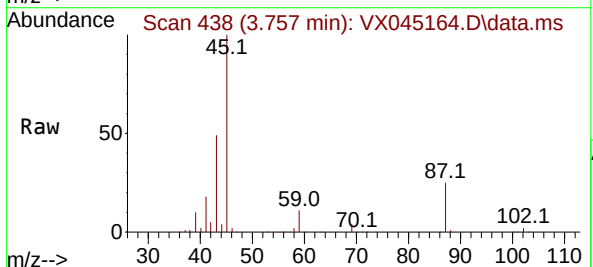
Manual Integrations
APPROVED

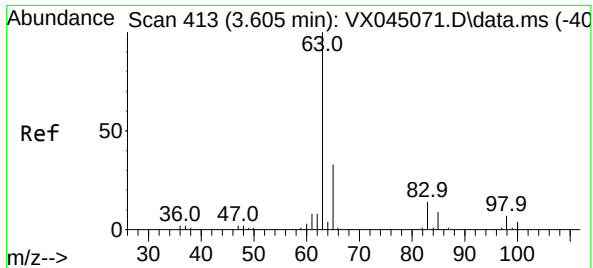
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#22
Diisopropyl ether
Concen: 47.578 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 45 Resp: 212844
Ion Ratio Lower Upper
45 100
43 49.5 54.9 82.3#
87 24.7 21.0 31.4
59 11.0 8.7 13.1





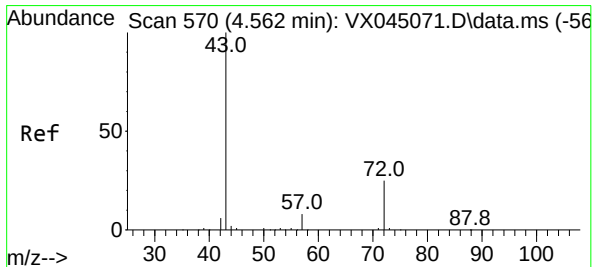
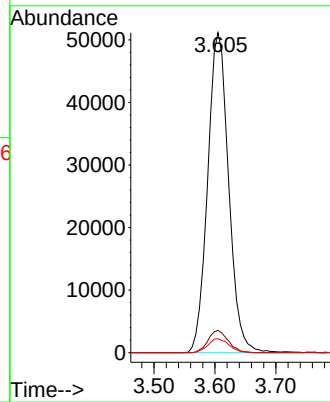
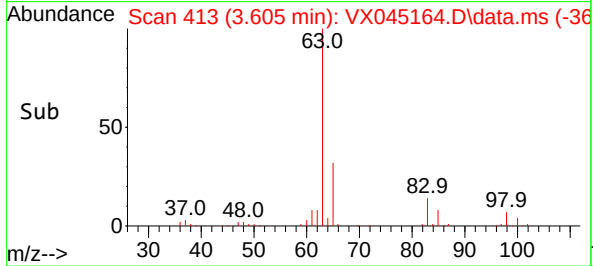
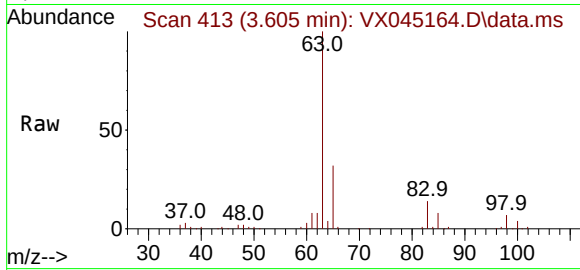
#24
1,1-Dichloroethane
Concen: 48.807 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Tgt Ion: 63 Resp: 12236
Ion Ratio Lower Upper
63 100
98 7.0 3.4 10.2
100 4.4 2.1 6.5

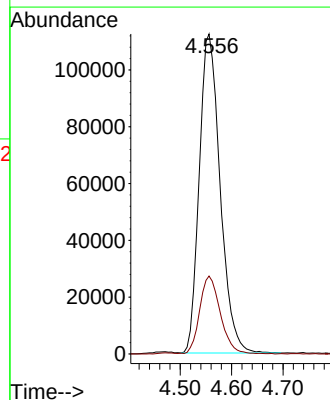
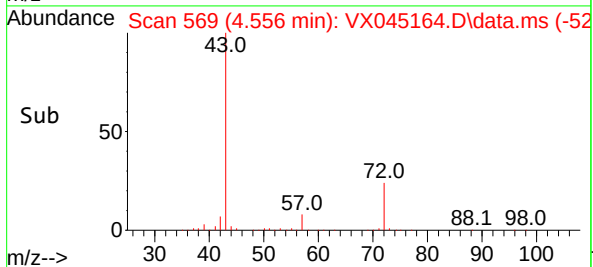
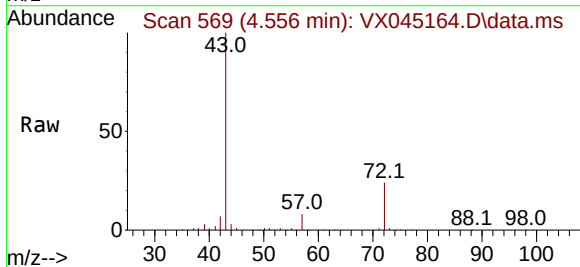
Manual Integrations
APPROVED

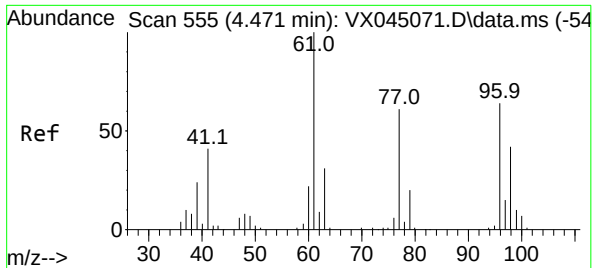
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#25
2-Butanone
Concen: 283.527 ug/l
RT: 4.556 min Scan# 569
Delta R.T. -0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

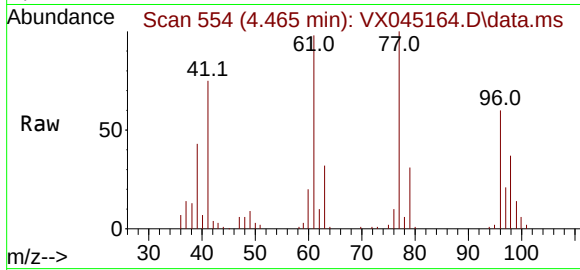
Tgt Ion: 43 Resp: 316746
Ion Ratio Lower Upper
43 100
72 24.3 20.0 30.0





#26
2,2-Dichloropropane
Concen: 66.088 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

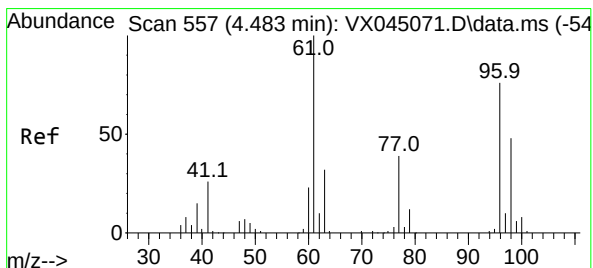
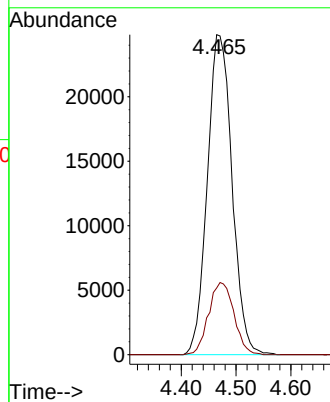
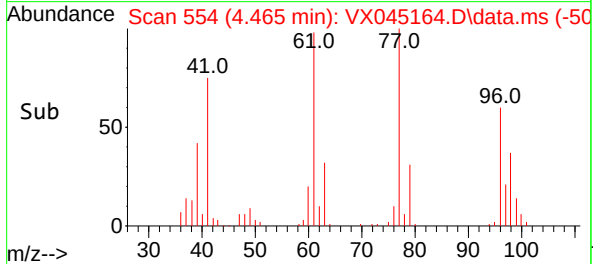
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD



Tgt Ion: 77 Resp: 77718
Ion Ratio Lower Upper
77 100
97 23.1 12.4 37.0

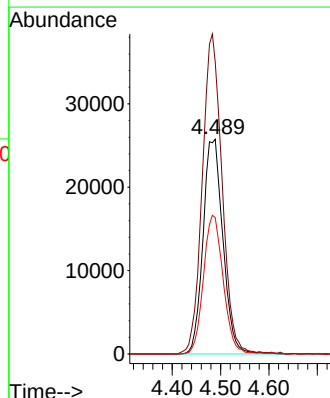
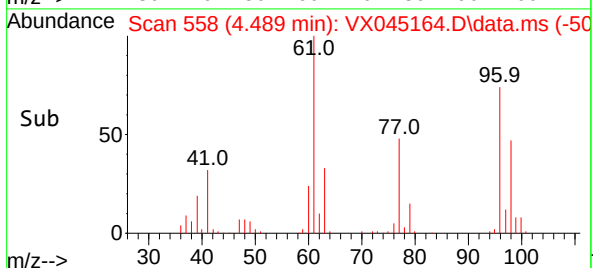
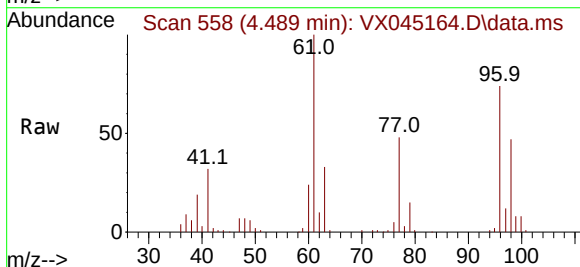
Manual Integrations
APPROVED

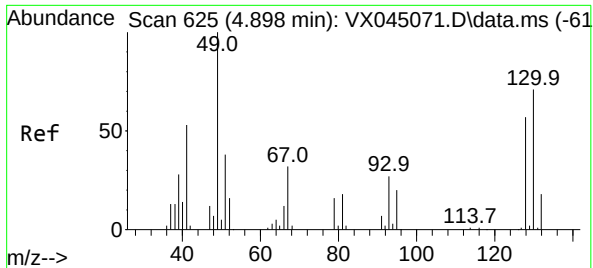
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#27
cis-1,2-Dichloroethene
Concen: 48.810 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

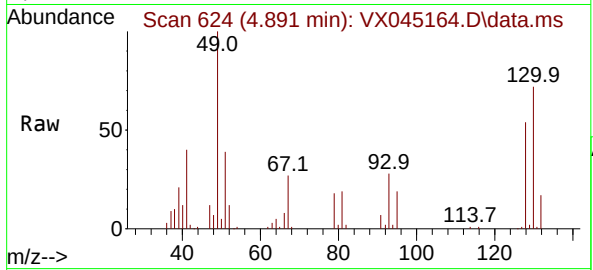
Tgt Ion: 96 Resp: 73559
Ion Ratio Lower Upper
96 100
61 148.4 0.0 283.2
98 64.0 0.0 128.0





#28
Bromochloromethane
Concen: 47.224 ug/l
RT: 4.891 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

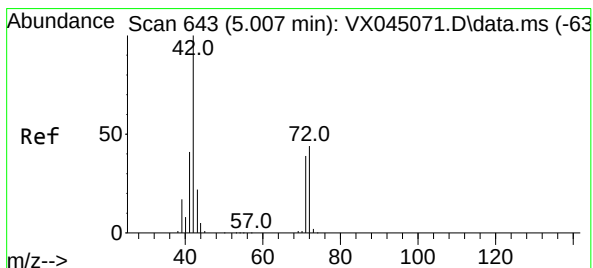
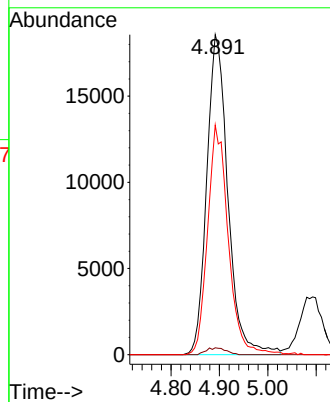
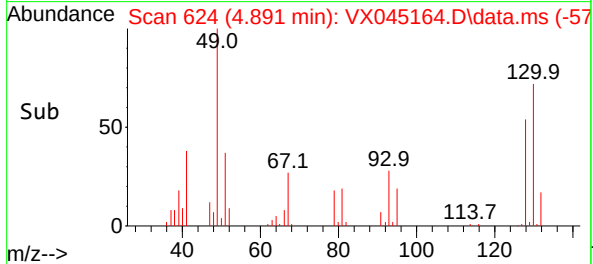
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD



Tgt Ion: 49 Resp: 5643
Ion Ratio Lower Upper
49 100
129 2.0 0.0 3.4
130 70.1 56.1 84.1

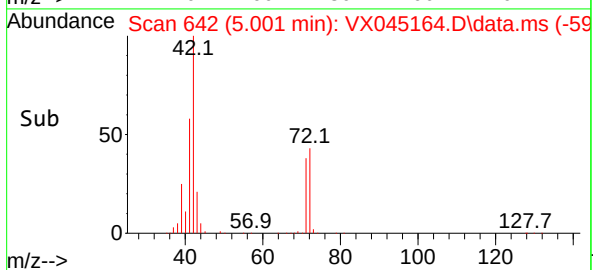
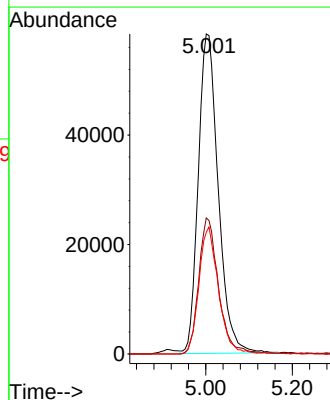
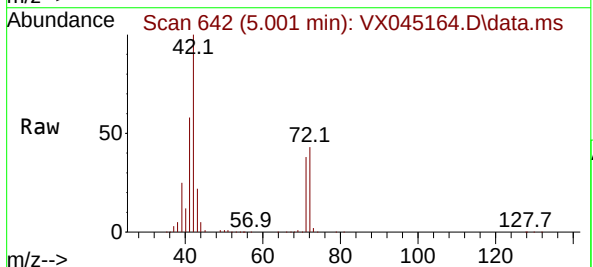
Manual Integrations
APPROVED

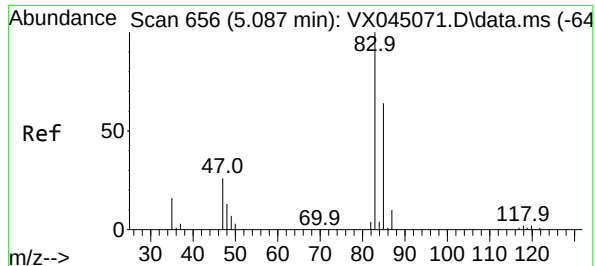
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#29
Tetrahydrofuran
Concen: 249.177 ug/l
RT: 5.001 min Scan# 642
Delta R.T. -0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 42 Resp: 186941
Ion Ratio Lower Upper
42 100
72 42.3 34.1 51.1
71 38.8 31.4 47.0





#30

Chloroform

Concen: 48.631 ug/l

RT: 5.086 min Scan# 61

Delta R.T. -0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MSD

Tgt Ion: 83 Resp: 121140

Ion Ratio Lower Upper

83 100

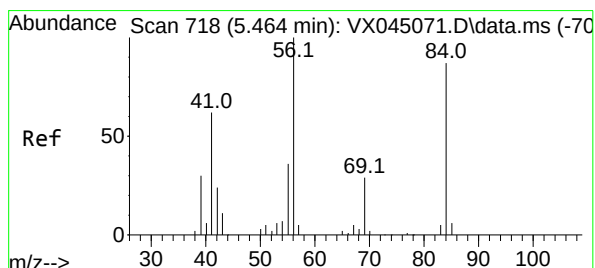
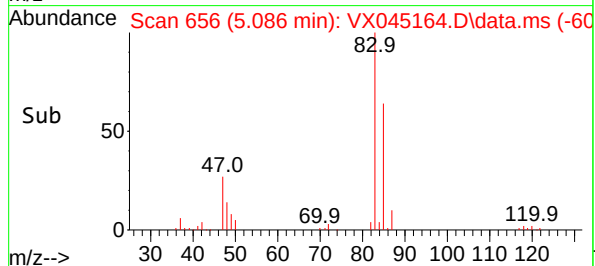
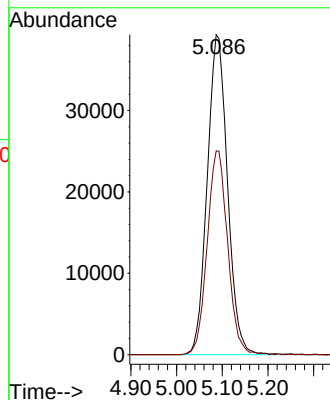
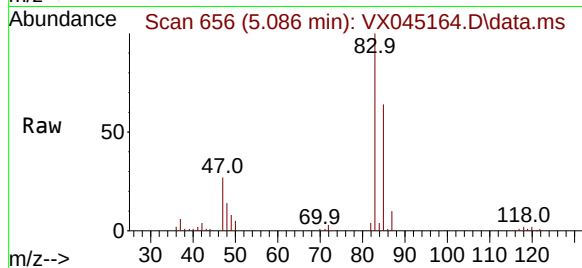
85 63.7 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#31

Cyclohexane

Concen: 45.259 ug/l

RT: 5.464 min Scan# 718

Delta R.T. 0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

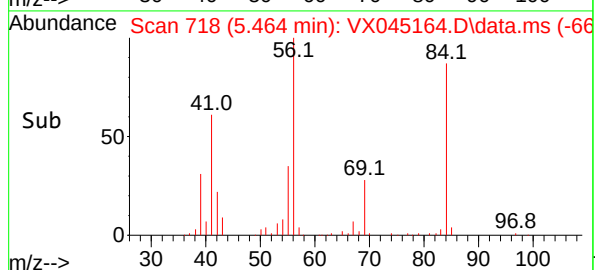
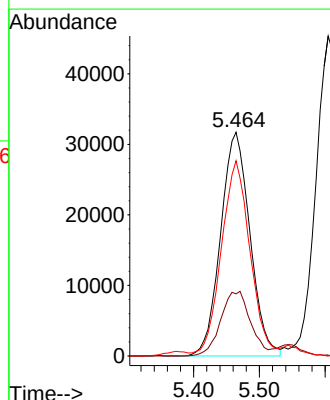
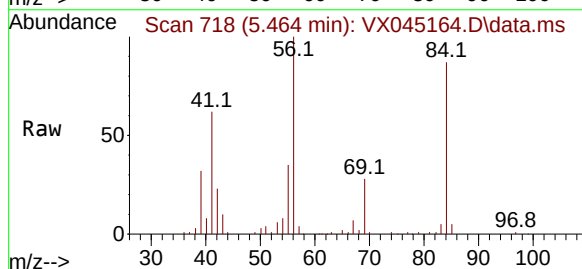
Tgt Ion: 56 Resp: 98498

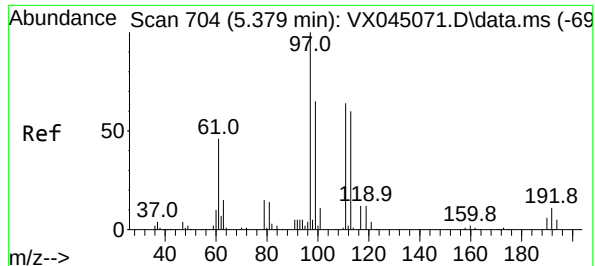
Ion Ratio Lower Upper

56 100

69 27.8 23.4 35.2

84 85.4 69.4 104.2





#32

1,1,1-Trichloroethane

Concen: 49.391 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MSD

Tgt Ion: 97 Resp: 99374

Ion Ratio Lower Upper

97 100

99 62.7 51.6 77.4

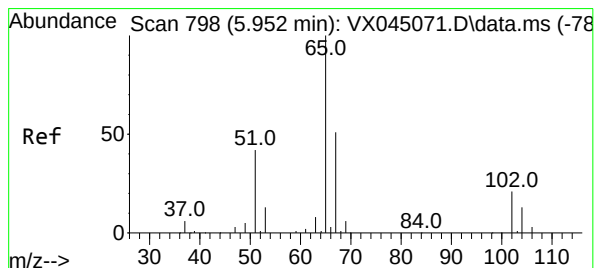
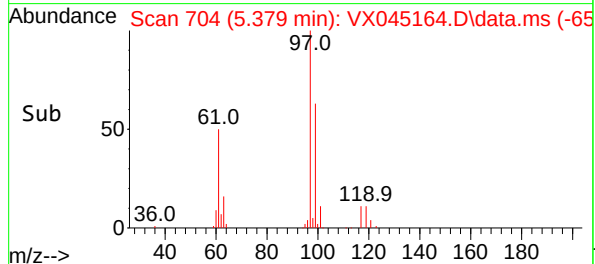
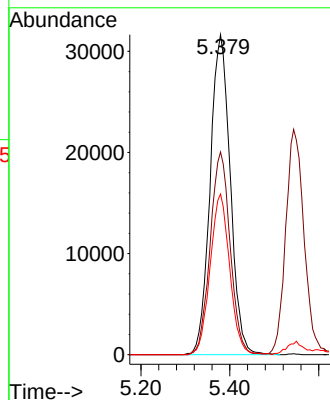
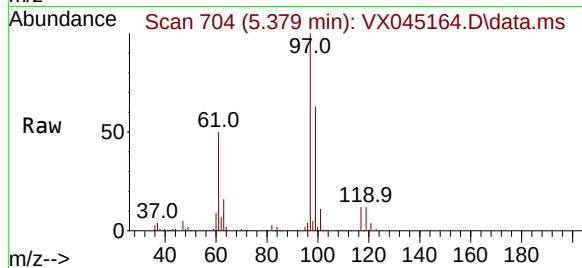
61 49.1 38.4 57.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#33

1,2-Dichloroethane-d4

Concen: 49.159 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX045164.D

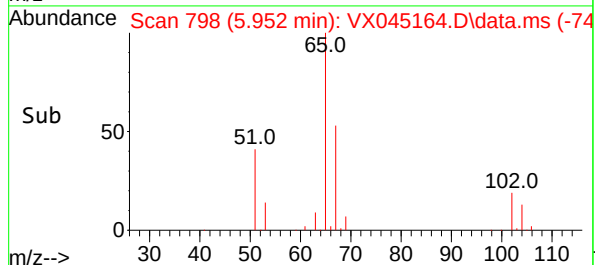
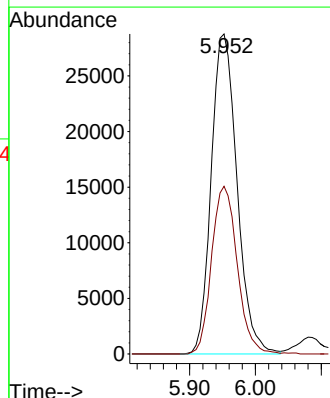
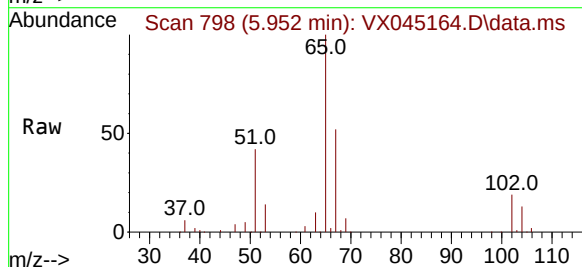
Acq: 06 Mar 2025 13:33

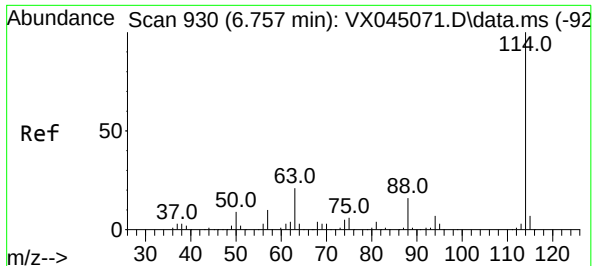
Tgt Ion: 65 Resp: 78636

Ion Ratio Lower Upper

65 100

67 52.1 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MSD

Tgt Ion:114 Resp: 182698

Ion Ratio Lower Upper

114 100

63 22.5 0.0 41.8

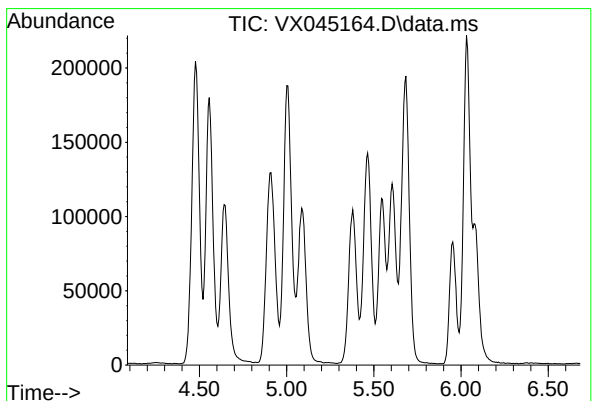
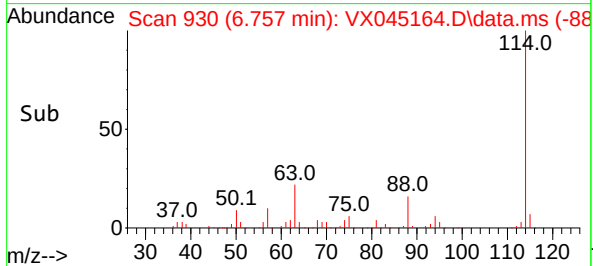
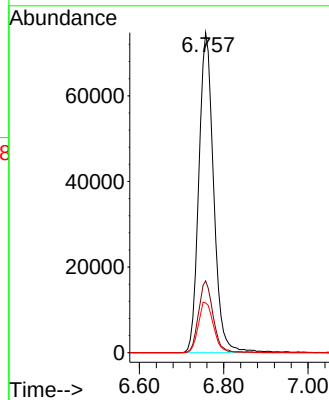
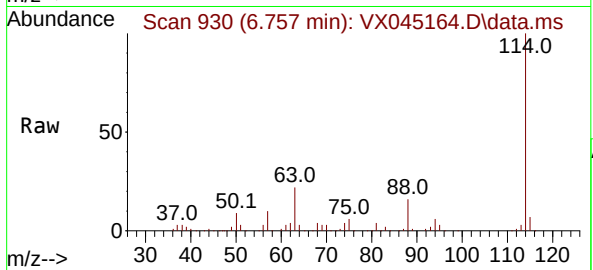
88 15.5 0.0 32.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 5.39 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

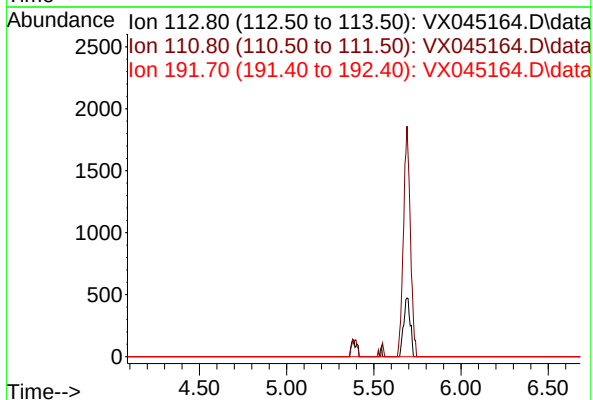
Tgt Ion: 113

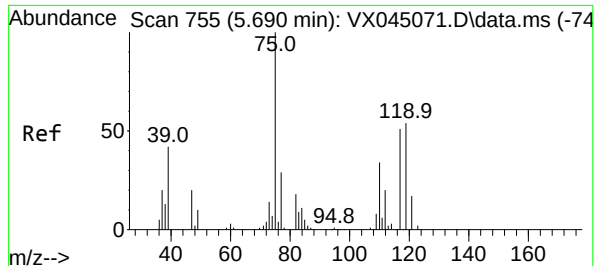
Sig Exp Ratio

113 100

111 102.2

192 17.9





#36

1,1-Dichloropropene

Concen: 48.310 ug/l

RT: 5.690 min Scan# 755

Delta R.T. -0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MSD

Tgt Ion: 75 Resp: 80938

Ion Ratio Lower Upper

75 100

110 33.8 16.9 50.6

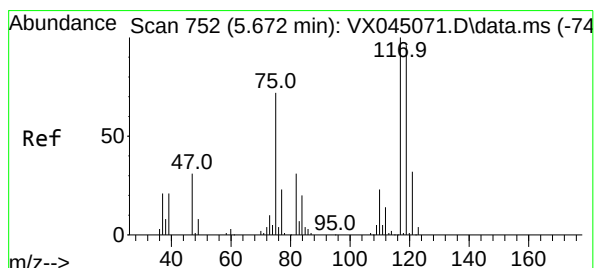
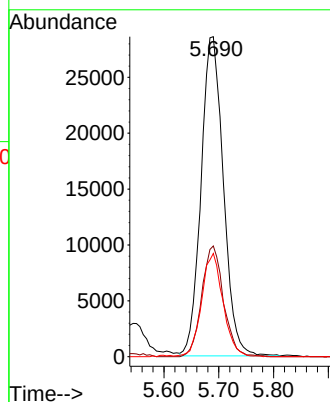
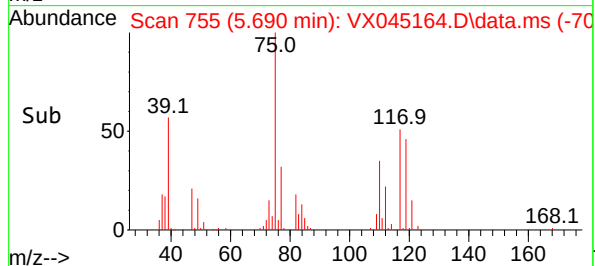
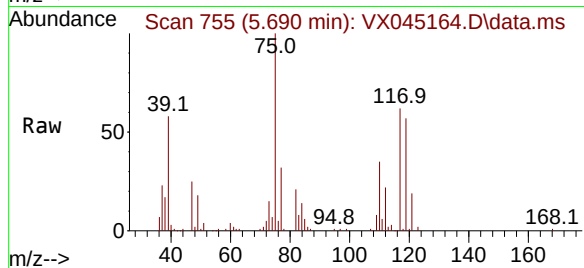
77 31.1 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#38

Carbon Tetrachloride

Concen: 47.327 ug/l

RT: 5.672 min Scan# 752

Delta R.T. 0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

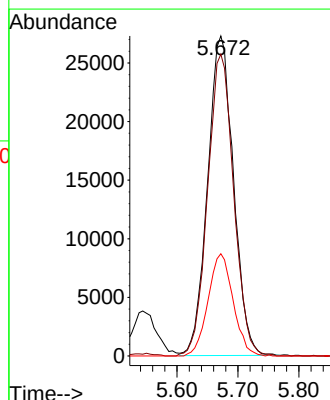
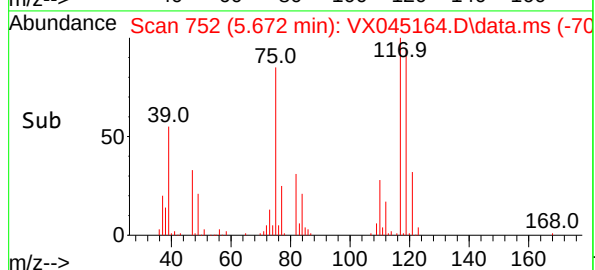
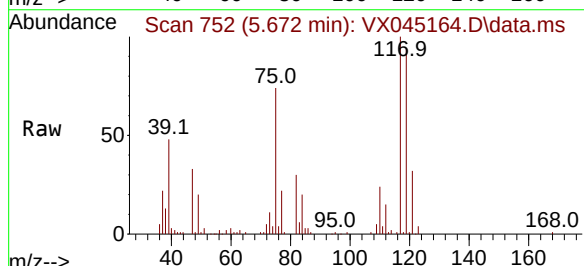
Tgt Ion:117 Resp: 80499

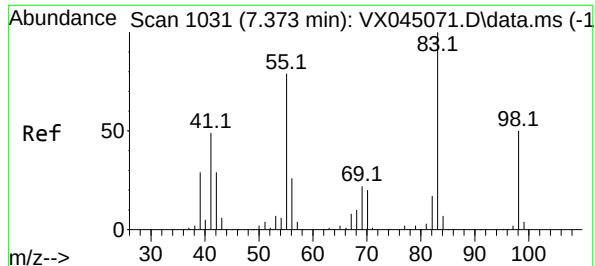
Ion Ratio Lower Upper

117 100

119 94.5 76.7 115.1

121 32.0 25.5 38.3





#39

Methylcyclohexane

Concen: 45.080 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MSD

Tgt Ion: 83 Resp: 90498

Ion Ratio Lower Upper

83 100

55 80.2 63.0 94.4

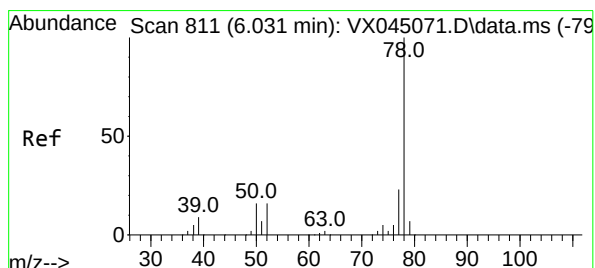
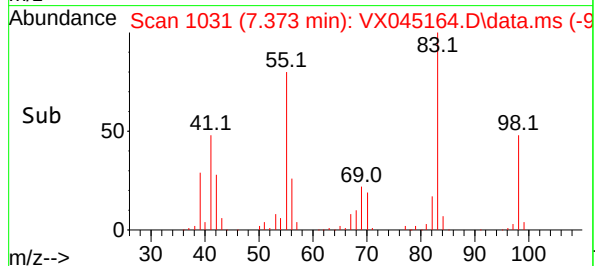
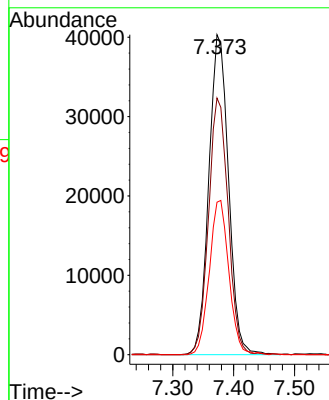
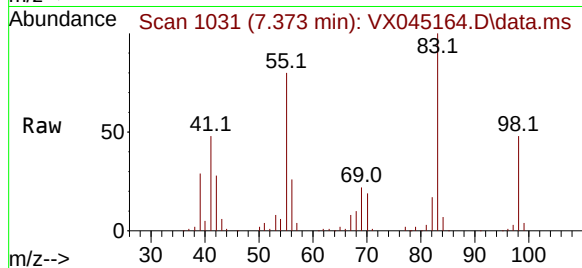
98 47.6 39.7 59.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#40

Benzene

Concen: 48.959 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX045164.D

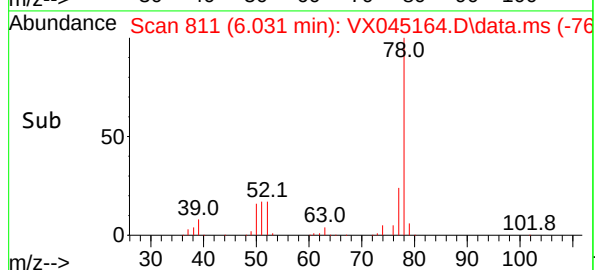
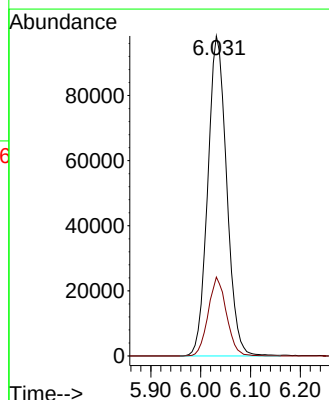
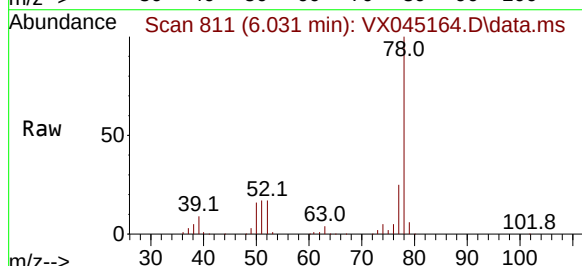
Acq: 06 Mar 2025 13:33

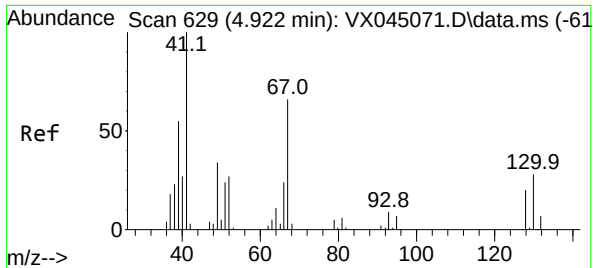
Tgt Ion: 78 Resp: 259017

Ion Ratio Lower Upper

78 100

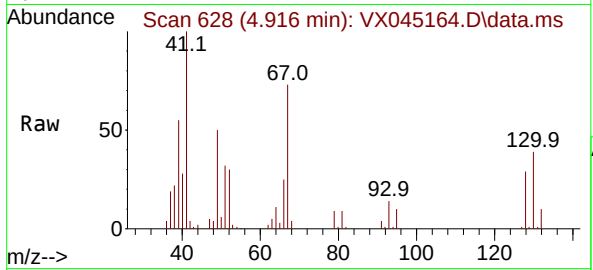
77 24.6 18.8 28.2





#41
Methacrylonitrile
Concen: 50.821 ug/l
RT: 4.916 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

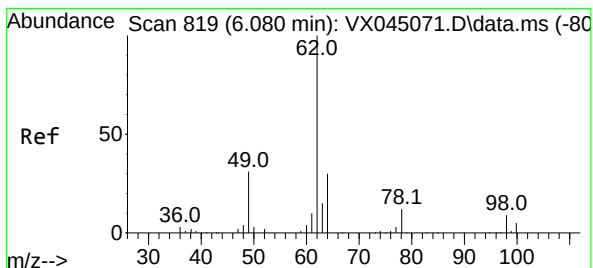
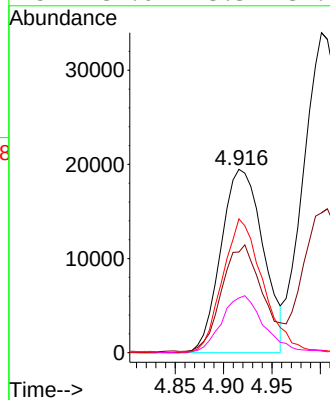
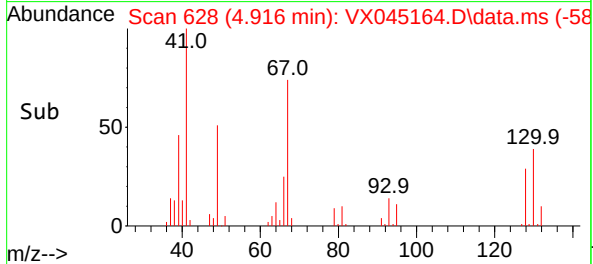
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD



Tgt Ion: 41 Resp: 59324
Ion Ratio Lower Upper
41 100
39 57.1 44.6 67.0
67 69.9 53.9 80.9
52 31.6 23.3 34.9

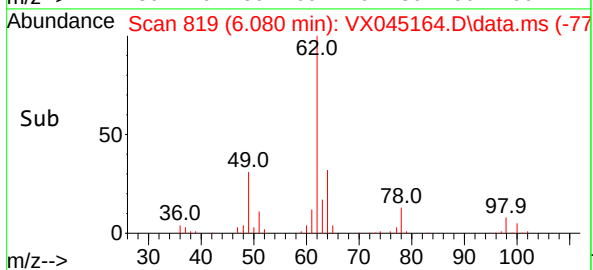
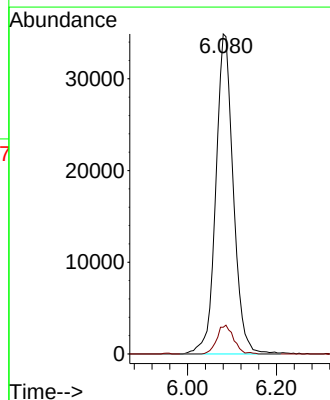
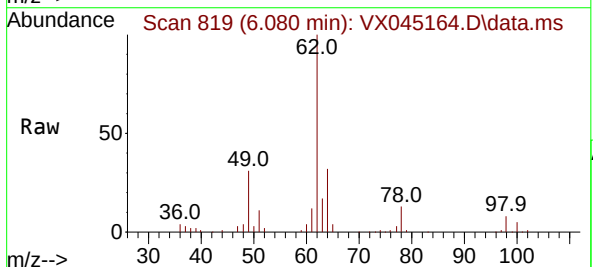
Manual Integrations
APPROVED

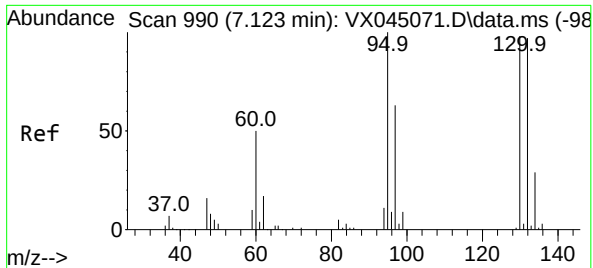
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#42
1,2-Dichloroethane
Concen: 49.838 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

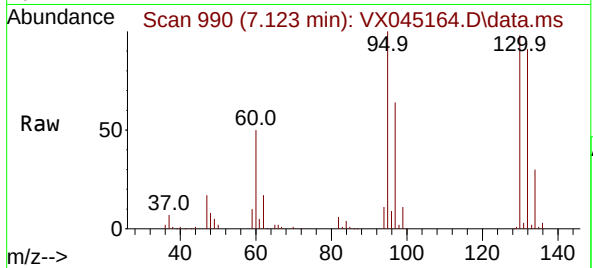
Tgt Ion: 62 Resp: 94946
Ion Ratio Lower Upper
62 100
98 8.6 0.0 18.2





#44
Trichloroethene
Concen: 91.488 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

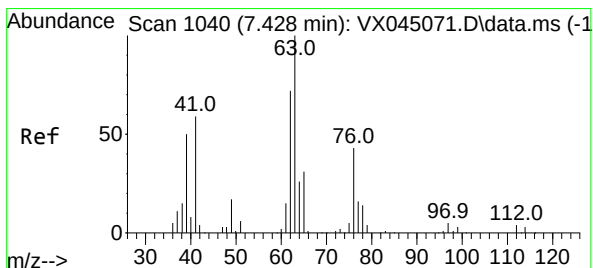
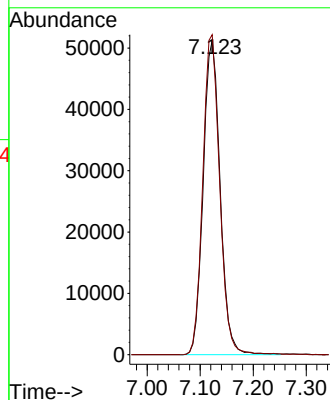
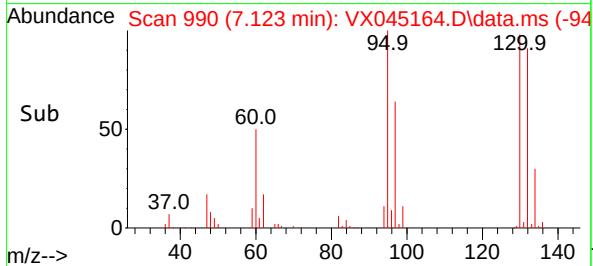
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD



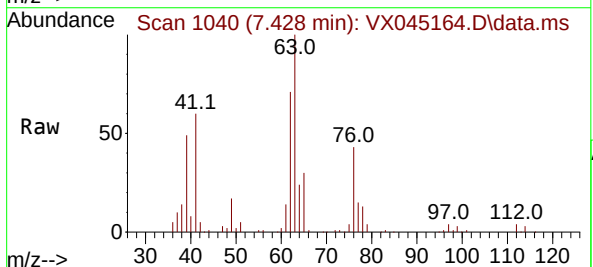
Tgt Ion:130 Resp: 11365
Ion Ratio Lower Upper
130 100
95 101.9 0.0 205.0

Manual Integrations
APPROVED

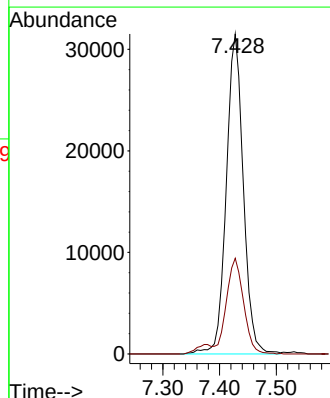
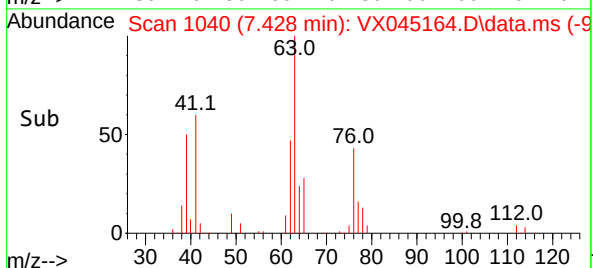
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

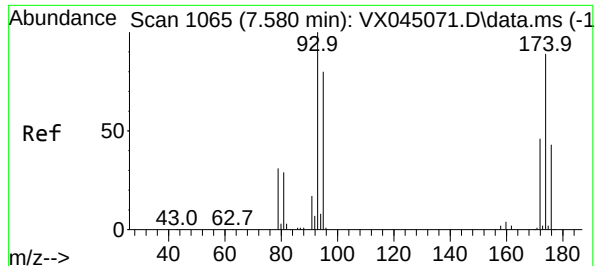


#45
1,2-Dichloropropane
Concen: 48.354 ug/l
RT: 7.428 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33



Tgt Ion: 63 Resp: 65772
Ion Ratio Lower Upper
63 100
65 29.9 24.7 37.1





#46

Dibromomethane

Concen: 50.186 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. 0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MSD

Tgt Ion: 93 Resp: 48250

Ion Ratio Lower Upper

93 100

95 82.3 65.8 98.8

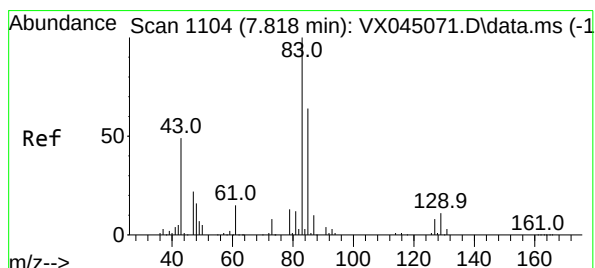
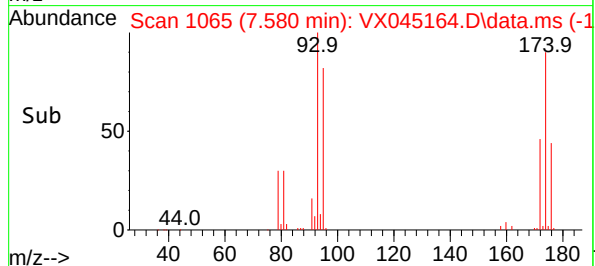
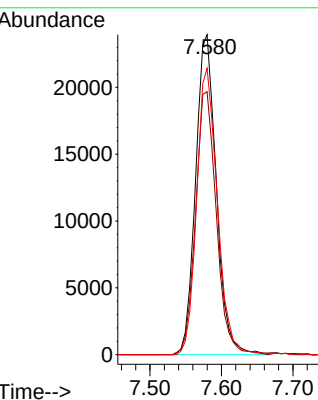
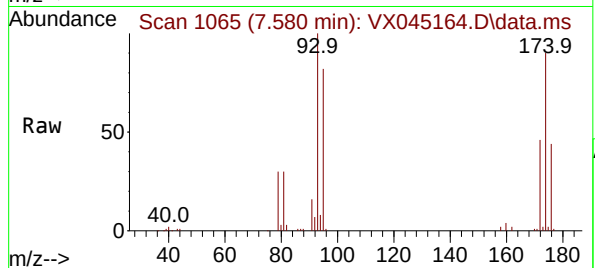
174 89.0 72.2 108.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#47

Bromodichloromethane

Concen: 34.877 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

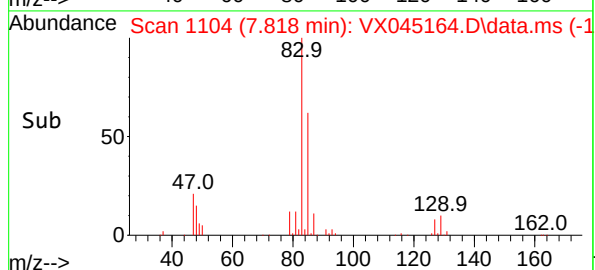
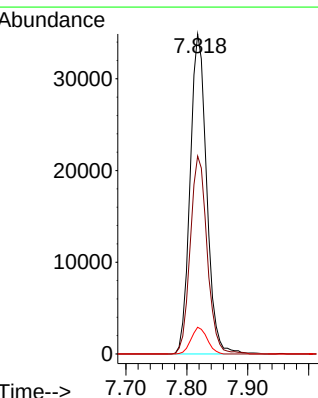
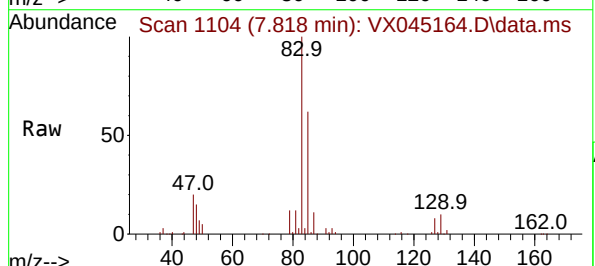
Tgt Ion: 83 Resp: 65772

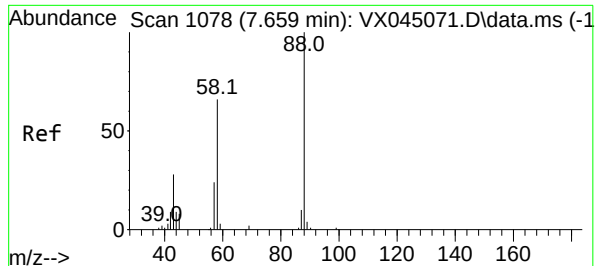
Ion Ratio Lower Upper

83 100

85 61.9 51.1 76.7

127 8.3 6.4 9.6





#49

1,4-Dioxane

Concen: 858.601 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. 0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MSD

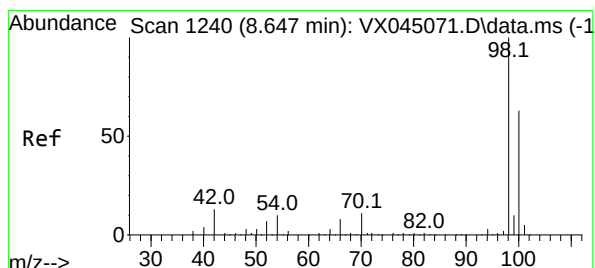
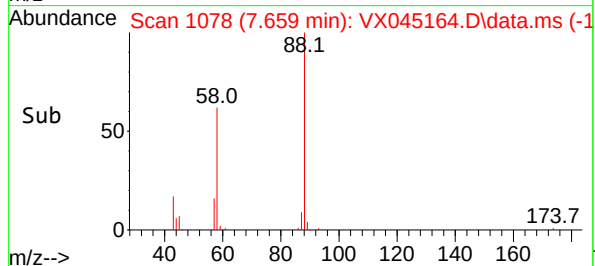
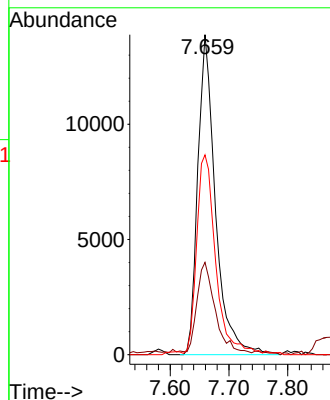
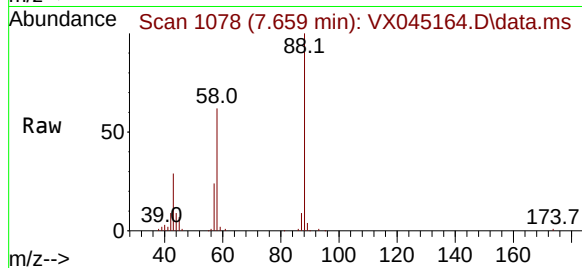
Tgt Ion:	88	Resp:	29000
Ion Ratio	Lower	Upper	
88	100		
43	28.5	28.7	43.1
58	67.7	55.8	83.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#50

Toluene-d8

Concen: 48.071 ug/l

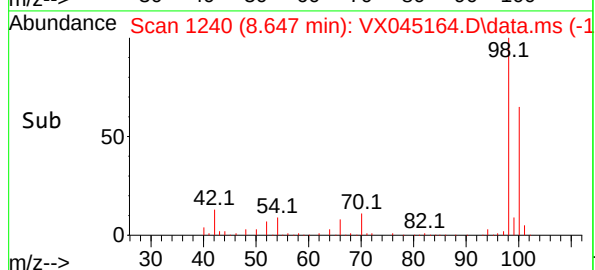
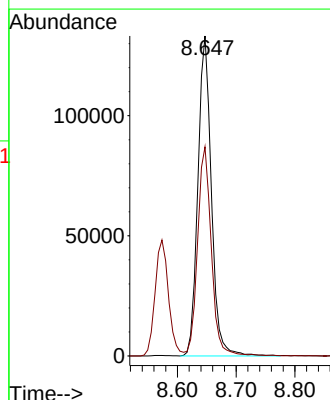
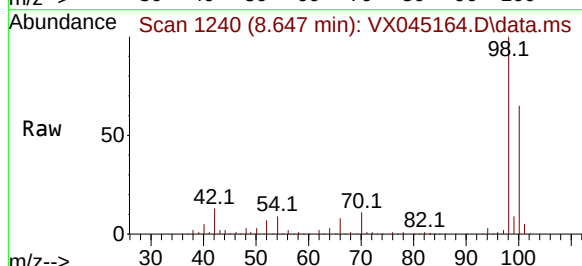
RT: 8.647 min Scan# 1240

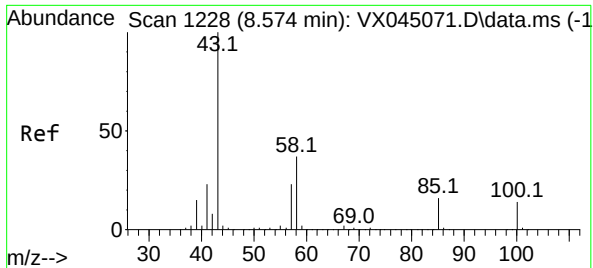
Delta R.T. -0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

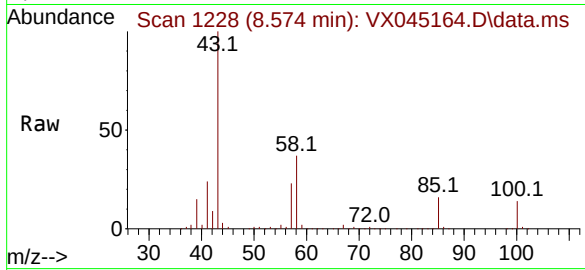
Tgt Ion:	98	Resp:	212901
Ion Ratio	Lower	Upper	
98	100		
100	66.1	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 258.557 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

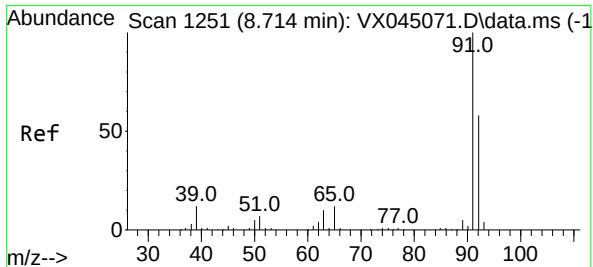
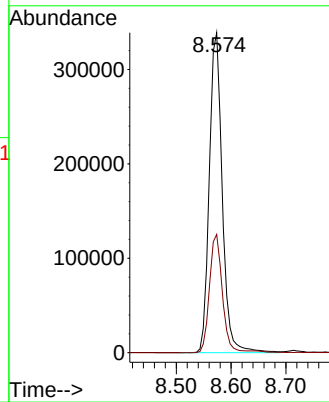
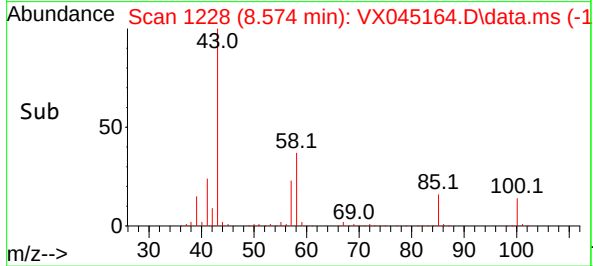
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD



Tgt Ion: 43 Resp: 55420
Ion Ratio Lower Upper
43 100
58 37.3 29.2 43.8

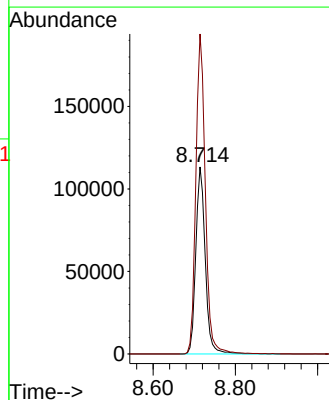
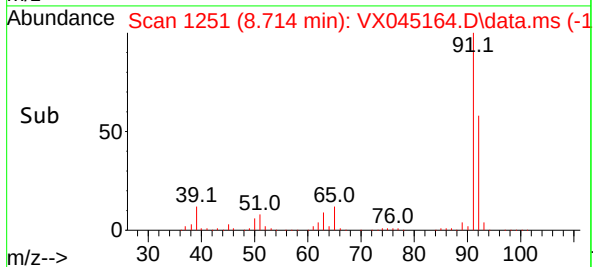
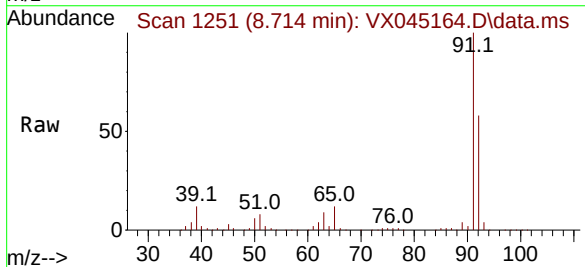
Manual Integrations
APPROVED

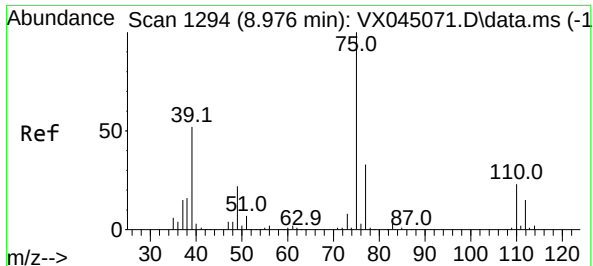
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#52
Toluene
Concen: 58.295 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

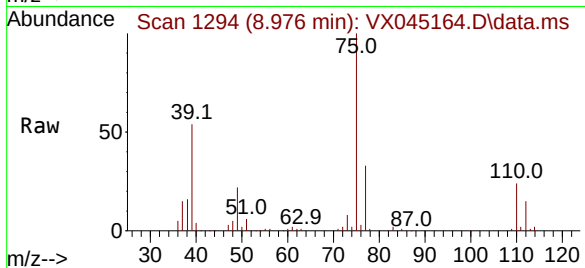
Tgt Ion: 92 Resp: 180949
Ion Ratio Lower Upper
92 100
91 171.8 138.9 208.3





#53
t-1,3-Dichloropropene
Concen: 51.062 ug/l
RT: 8.976 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

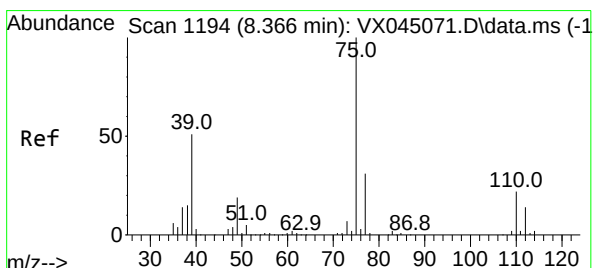
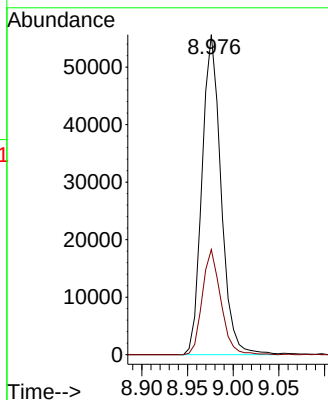
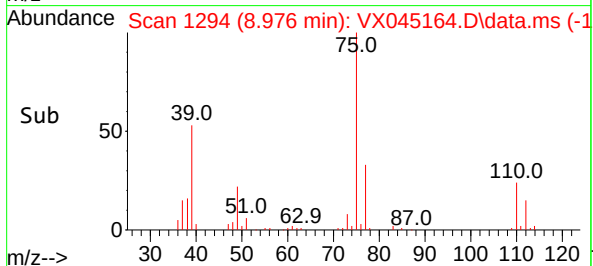
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD



Tgt Ion: 75 Resp: 8050
Ion Ratio Lower Upper
75 100
77 32.9 26.5 39.7

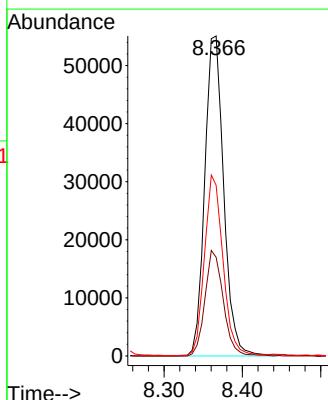
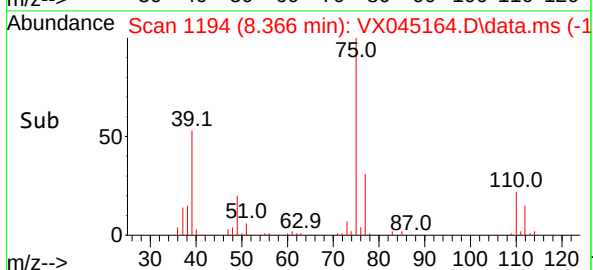
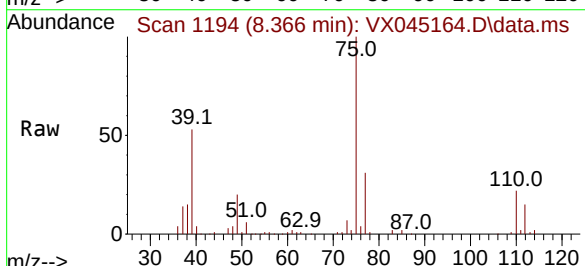
Manual Integrations
APPROVED

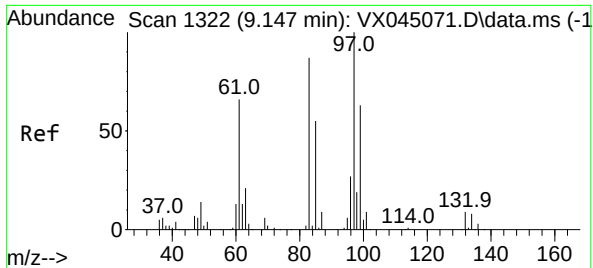
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#54
cis-1,3-Dichloropropene
Concen: 50.352 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 75 Resp: 92567
Ion Ratio Lower Upper
75 100
77 30.8 24.7 37.1
39 53.2 40.7 61.1





#55

1,1,2-Trichloroethane

Concen: 15.648 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MSD

Tgt Ion: 97 Resp: 1999

Ion Ratio Lower Upper

97 100

83 87.8 69.4 104.2

85 54.6 44.1 66.1

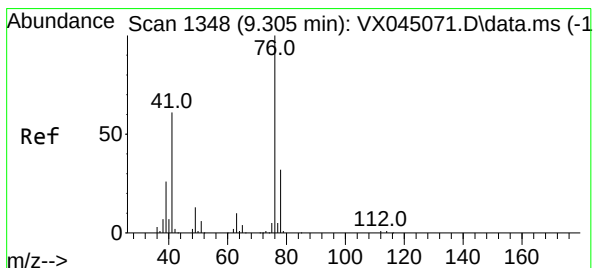
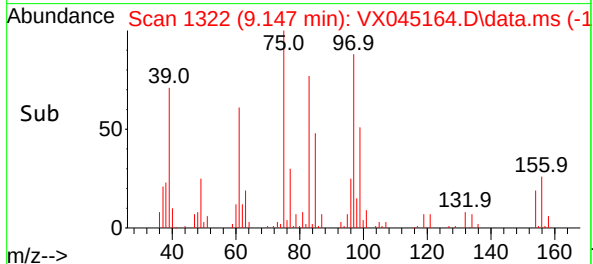
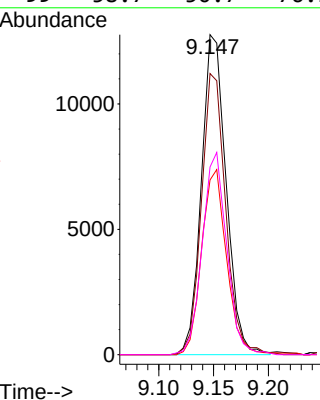
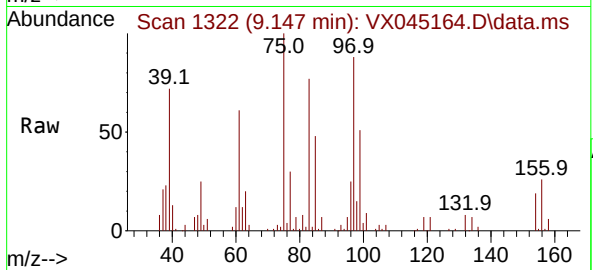
99 58.7 50.7 76.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#57

1,3-Dichloropropane

Concen: 48.727 ug/l

RT: 9.305 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VX045164.D

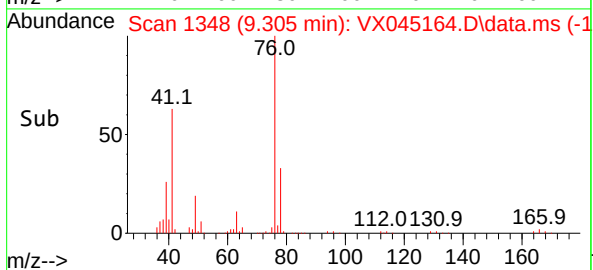
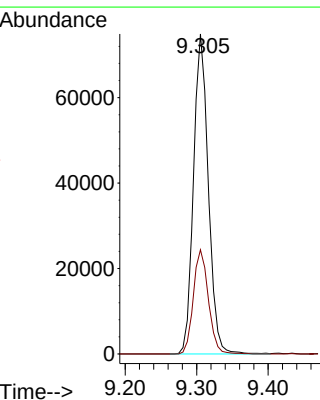
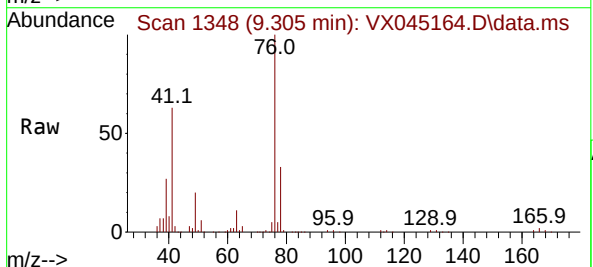
Acq: 06 Mar 2025 13:33

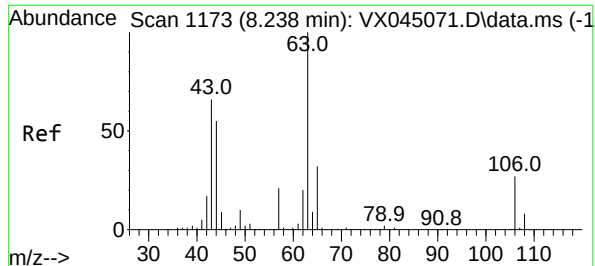
Tgt Ion: 76 Resp: 107755

Ion Ratio Lower Upper

76 100

78 33.1 25.5 38.3





#58

2-Chloroethyl Vinyl ether

Concen: 281.323 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MSD

Tgt Ion: 63 Resp: 266560

Ion Ratio Lower Upper

63 100

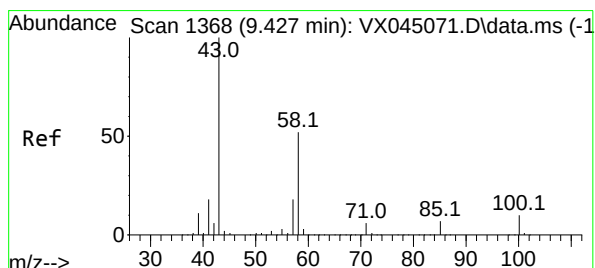
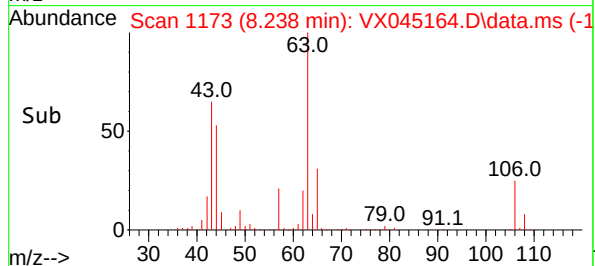
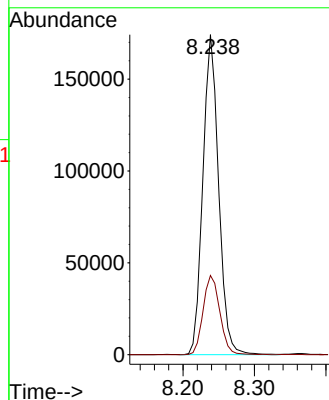
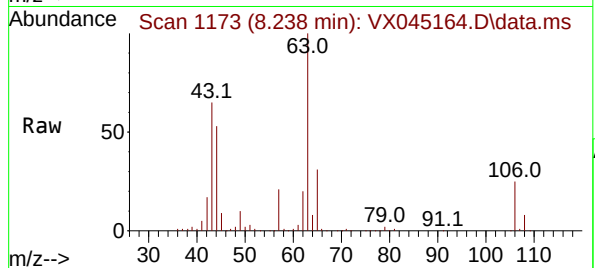
106 26.2 21.5 32.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#59

2-Hexanone

Concen: 264.842 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.000 min

Lab File: VX045164.D

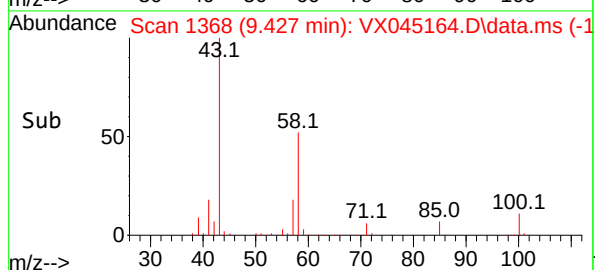
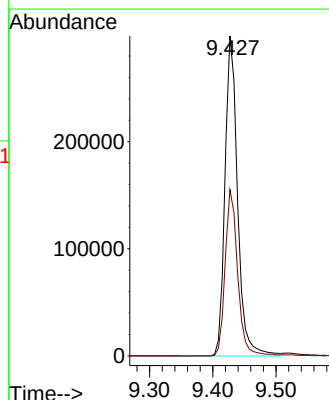
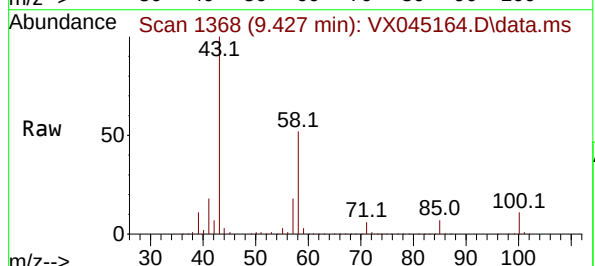
Acq: 06 Mar 2025 13:33

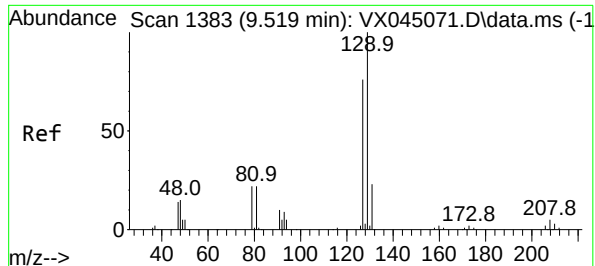
Tgt Ion: 43 Resp: 411304

Ion Ratio Lower Upper

43 100

58 52.2 25.9 77.6





#60

Dibromochloromethane

Concen: 41.126 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MSD

Tgt Ion:129 Resp: 54948

Ion Ratio Lower Upper

129 100

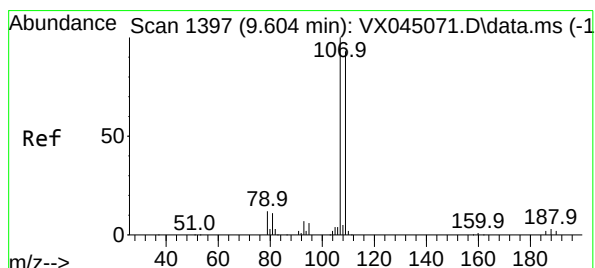
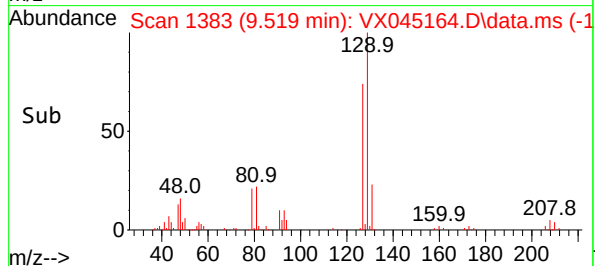
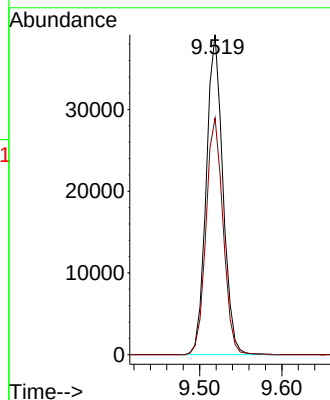
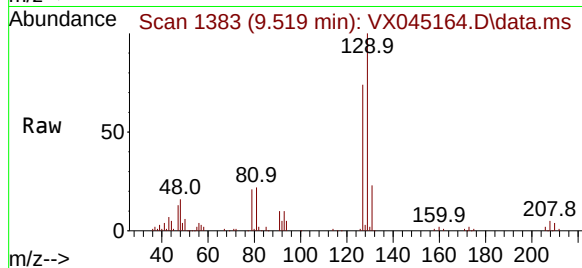
127 75.9 38.5 115.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#61

1,2-Dibromoethane

Concen: 48.636 ug/l

RT: 9.610 min Scan# 1398

Delta R.T. 0.006 min

Lab File: VX045164.D

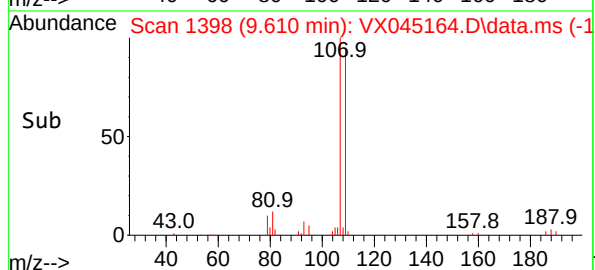
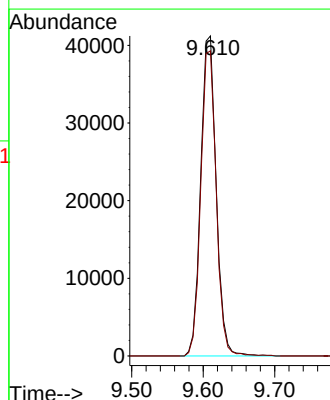
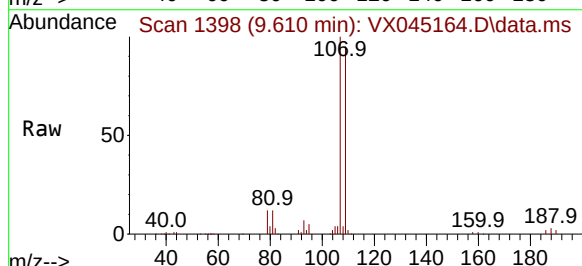
Acq: 06 Mar 2025 13:33

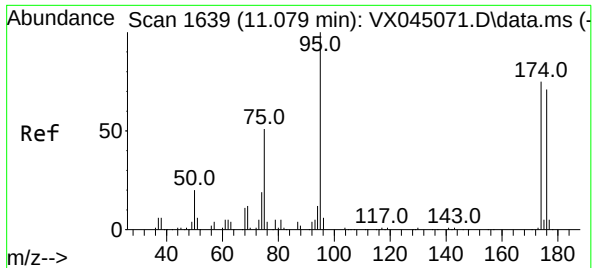
Tgt Ion:107 Resp: 62043

Ion Ratio Lower Upper

107 100

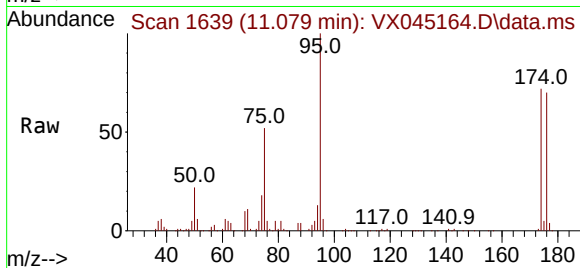
109 94.9 76.1 114.1





#62
4-Bromofluorobenzene
Concen: 48.816 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

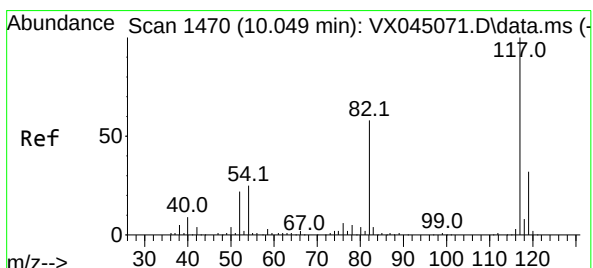
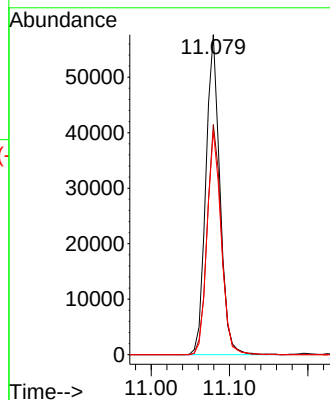
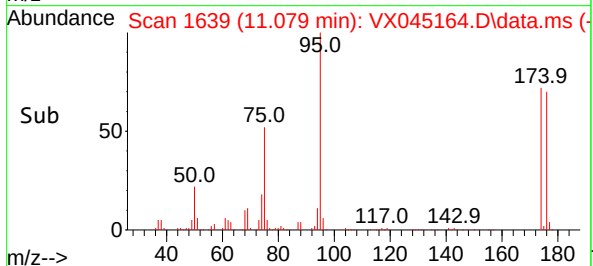
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD



Tgt Ion: 95 Resp: 7164
Ion Ratio Lower Upper
95 100
174 72.4 0.0 148.2
176 70.3 0.0 141.4

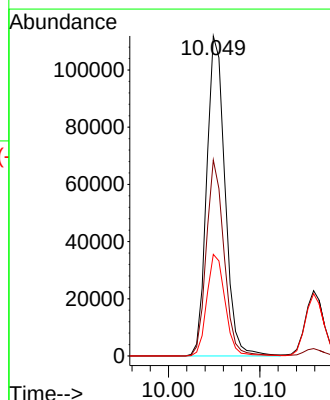
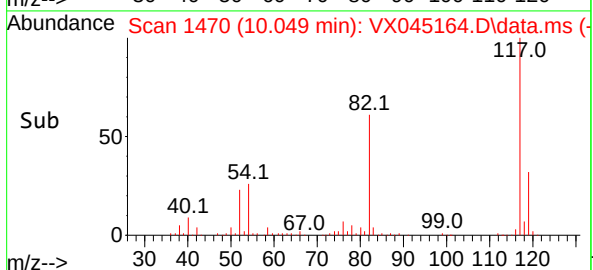
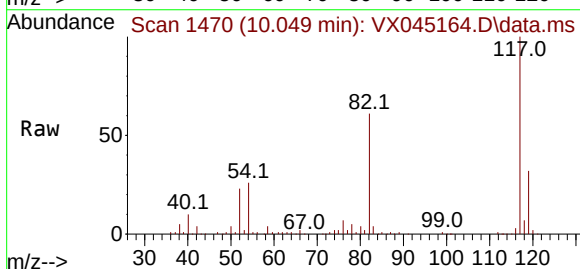
Manual Integrations
APPROVED

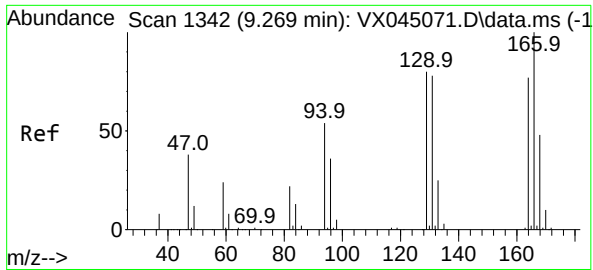
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

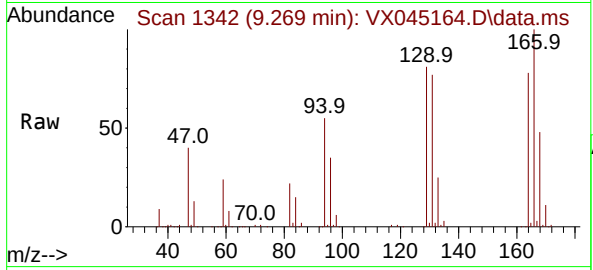
Tgt Ion:117 Resp: 154927
Ion Ratio Lower Upper
117 100
82 61.3 46.3 69.5
119 31.7 25.7 38.5





#64
Tetrachloroethene
Concen: 85.290 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

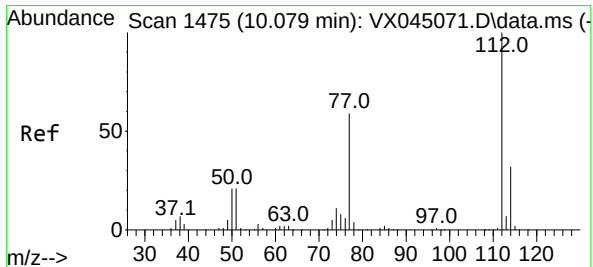
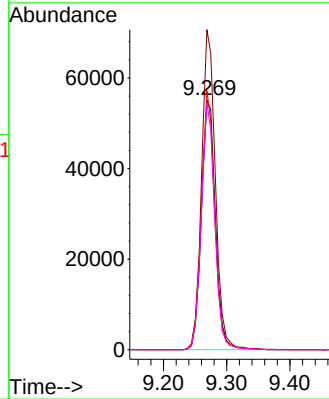
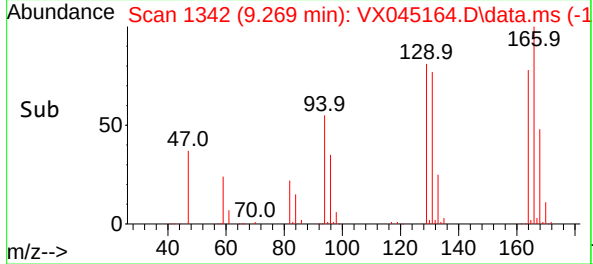
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD



Tgt Ion:164 Resp: 84629
Ion Ratio Lower Upper
164 100
166 128.3 103.6 155.4
129 103.8 82.7 124.1
131 99.0 80.5 120.7

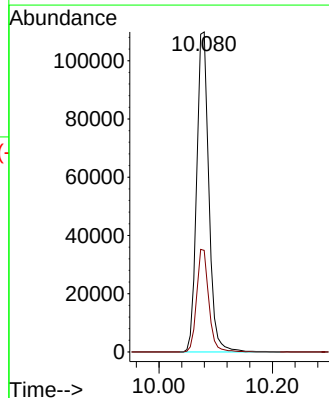
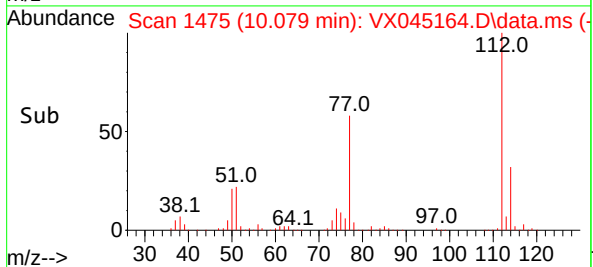
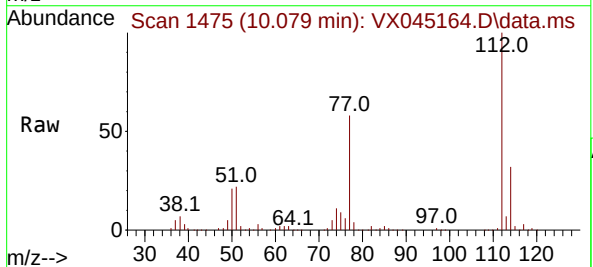
Manual Integrations
APPROVED

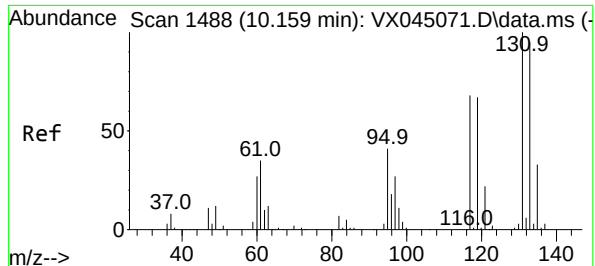
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#65
Chlorobenzene
Concen: 49.819 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:112 Resp: 163317
Ion Ratio Lower Upper
112 100
114 31.8 26.0 39.0





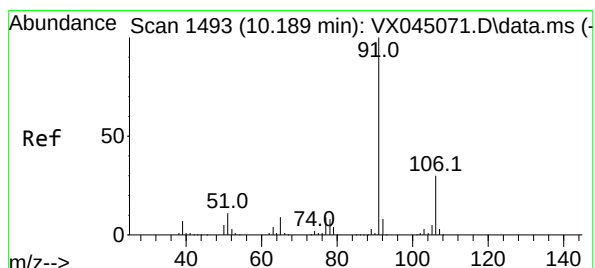
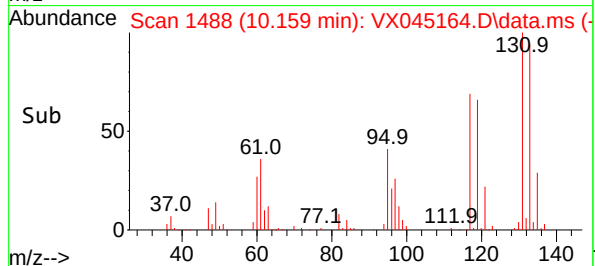
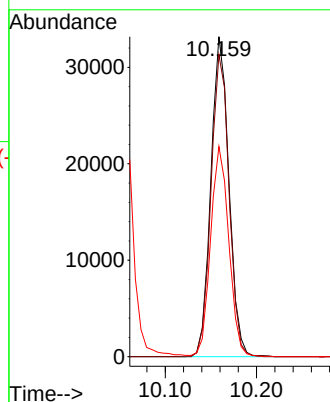
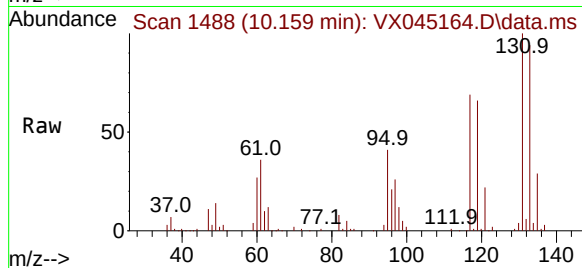
#66
1,1,1,2-Tetrachloroethane
Concen: 41.737 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Tgt Ion:131 Resp: 4556
Ion Ratio Lower Upper
131 100
133 94.4 48.6 145.9
119 66.4 33.9 101.7

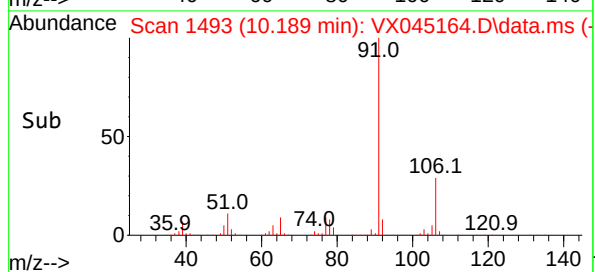
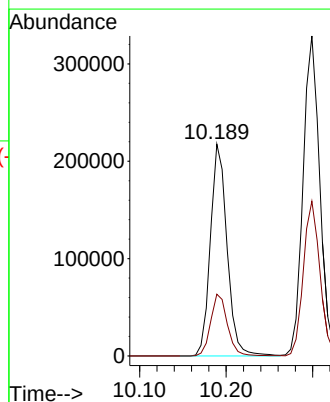
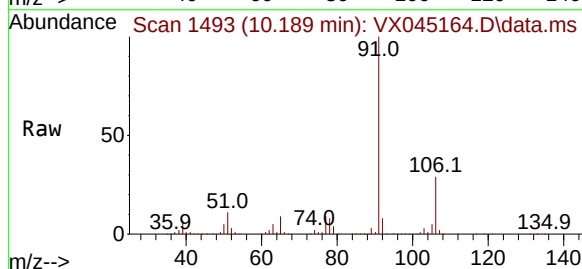
Manual Integrations
APPROVED

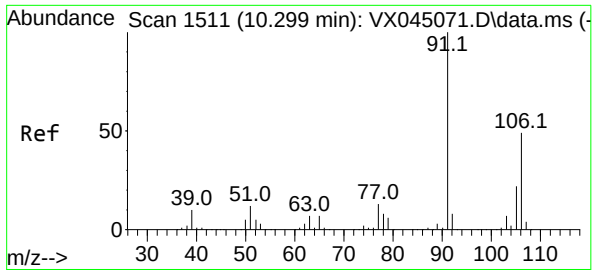
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#67
Ethyl Benzene
Concen: 50.987 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 91 Resp: 291242
Ion Ratio Lower Upper
91 100
106 29.2 23.9 35.9





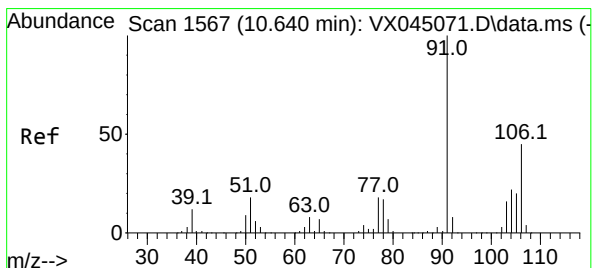
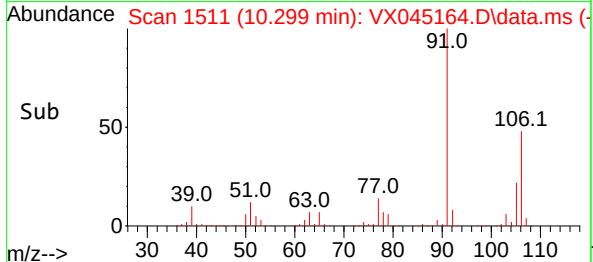
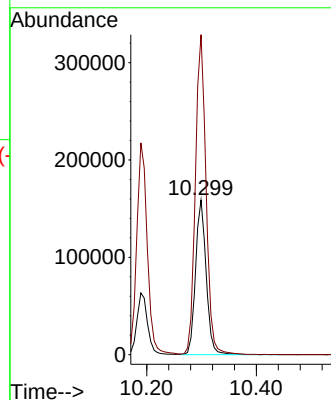
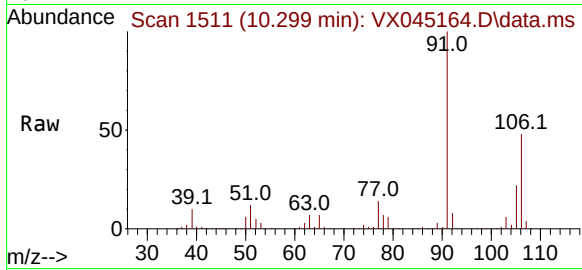
#68
m/p-Xylenes
Concen: 102.845 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Tgt Ion:106 Resp: 21505
Ion Ratio Lower Upper
106 100
91 207.1 165.4 248.0

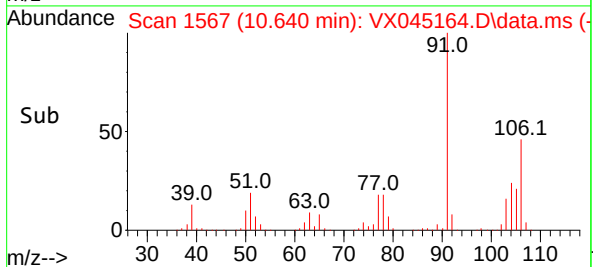
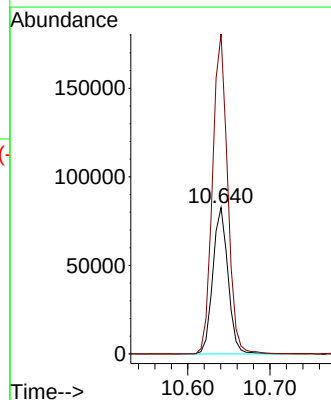
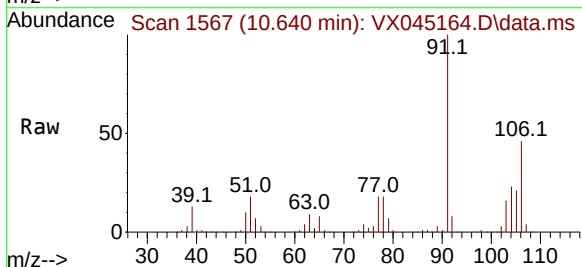
Manual Integrations
APPROVED

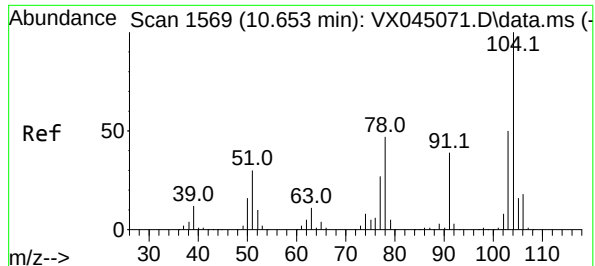
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#69
o-Xylene
Concen: 50.296 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:106 Resp: 106073
Ion Ratio Lower Upper
106 100
91 218.1 109.9 329.6





#70

Styrene

Concen: 51.549 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MSD

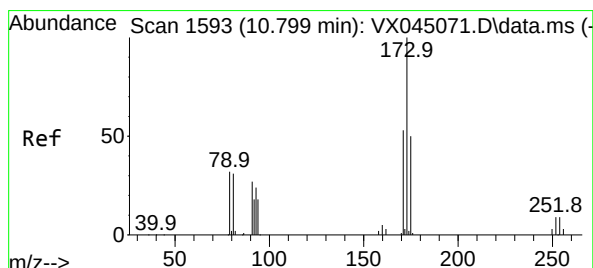
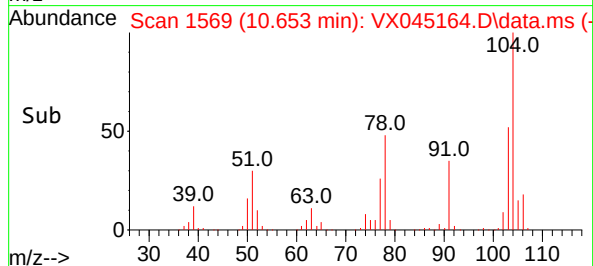
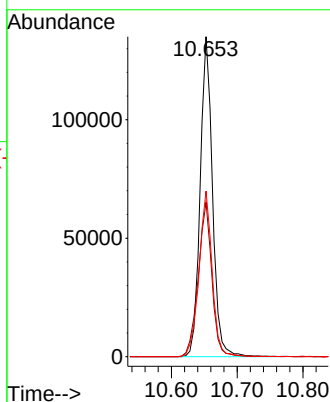
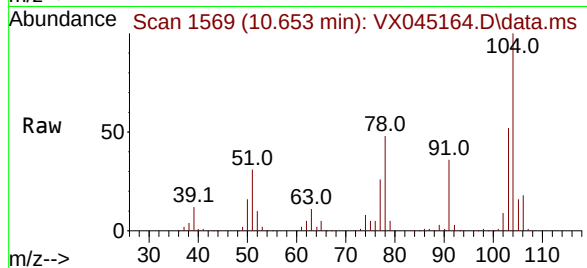
Tgt Ion:104	Resp:	17590
Ion Ratio	Lower	Upper
104	100	
78	53.5	42.2 63.4
103	55.4	43.8 65.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#71

Bromoform

Concen: 47.814 ug/l

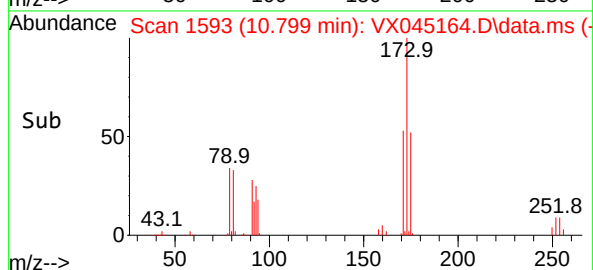
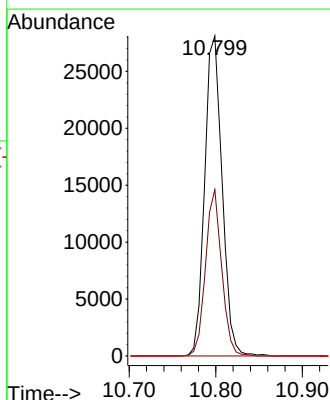
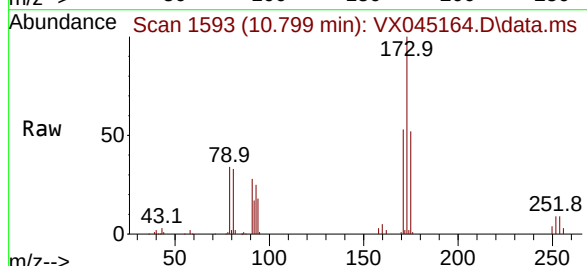
RT: 10.799 min Scan# 1593

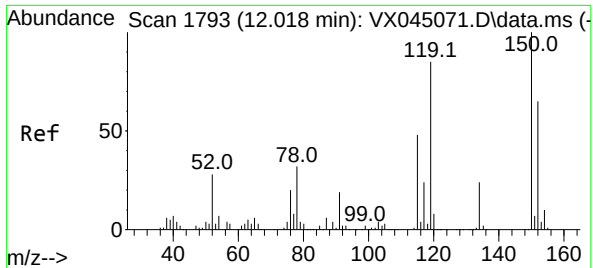
Delta R.T. 0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

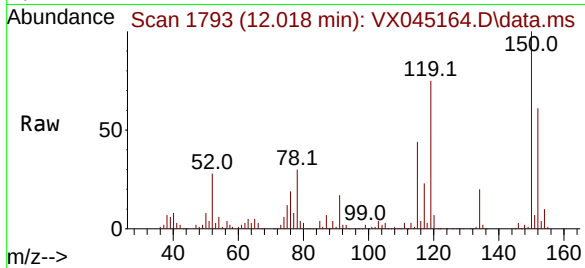
Tgt Ion:173	Resp:	39363
Ion Ratio	Lower	Upper
173	100	
175	48.2	24.6 73.6
254	0.0	0.0 0.0





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

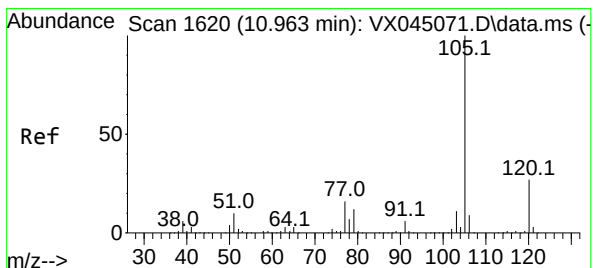
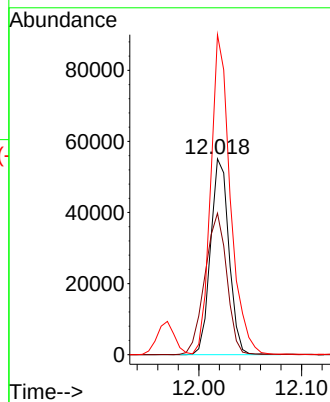
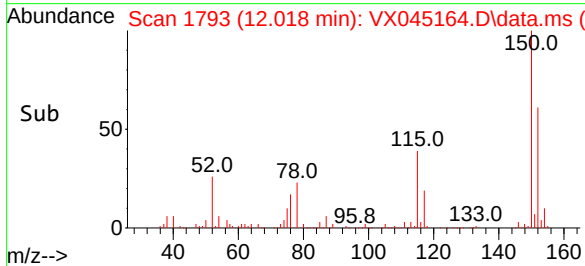
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD



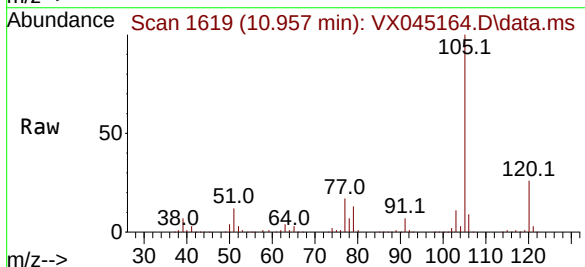
Tgt Ion:152 Resp: 68360
Ion Ratio Lower Upper
152 100
115 86.3 44.2 132.6
150 174.3 0.0 349.0

Manual Integrations
APPROVED

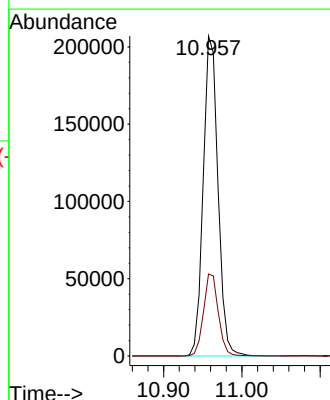
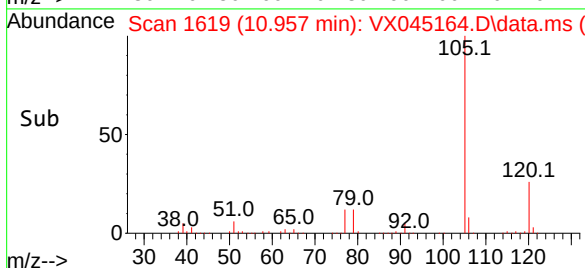
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

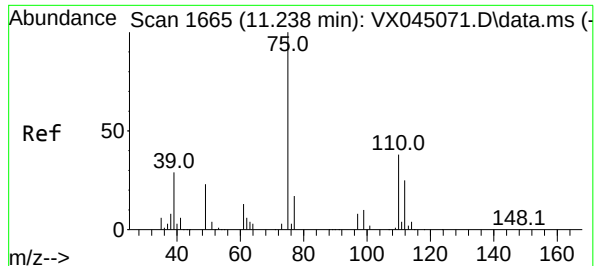


#73
Isopropylbenzene
Concen: 50.668 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33



Tgt Ion:105 Resp: 270349
Ion Ratio Lower Upper
105 100
120 25.8 13.2 39.5





#76

1,2,3-Trichloropropane

Concen: 46.175 ug/l m

RT: 11.238 min Scan# 1665

Delta R.T. -0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MSD

Tgt Ion: 75 Resp: 73469

Ion Ratio Lower Upper

75 100

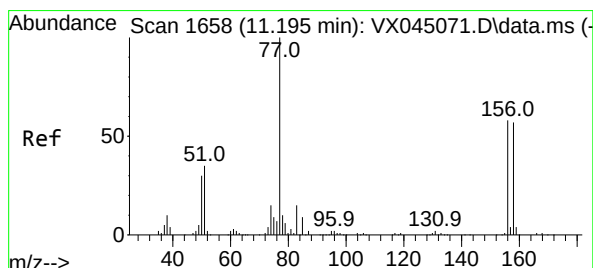
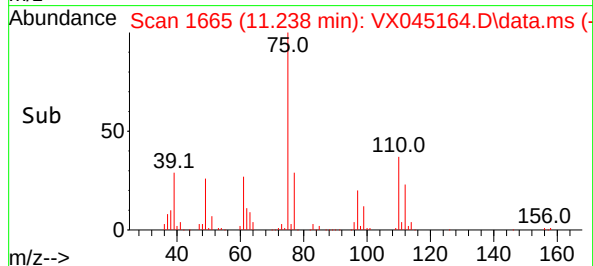
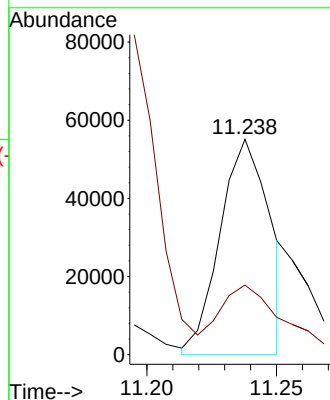
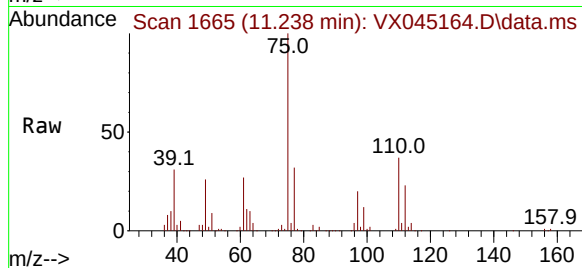
77 41.7 20.7 62.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#77

Bromobenzene

Concen: 49.485 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. 0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

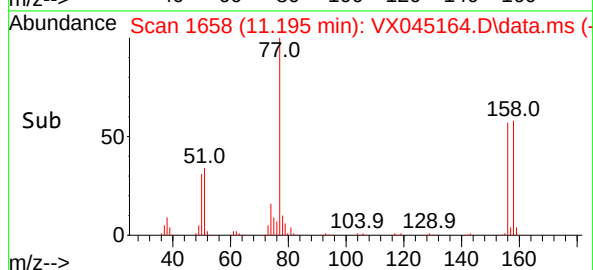
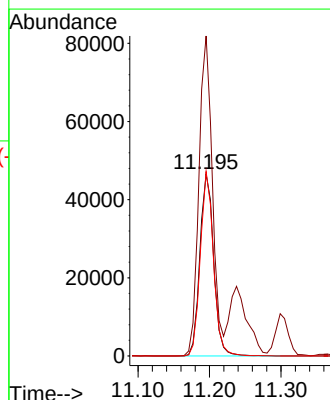
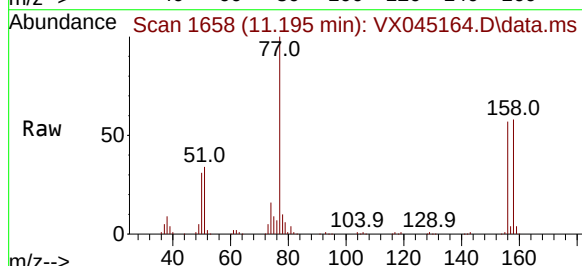
Tgt Ion:156 Resp: 62298

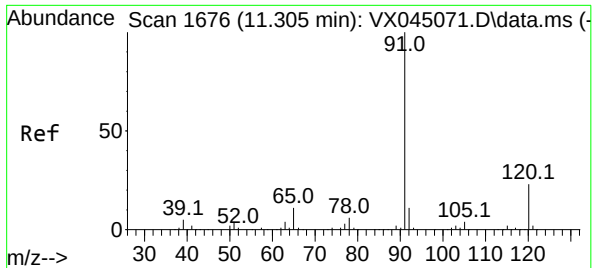
Ion Ratio Lower Upper

156 100

77 172.0 85.8 257.4

158 96.9 48.4 145.2





#78

n-propylbenzene

Concen: 51.952 ug/l

RT: 11.299 min Scan# 1675

Delta R.T. -0.006 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MSD

Tgt Ion: 91 Resp: 31313

Ion Ratio Lower Upper

91 100

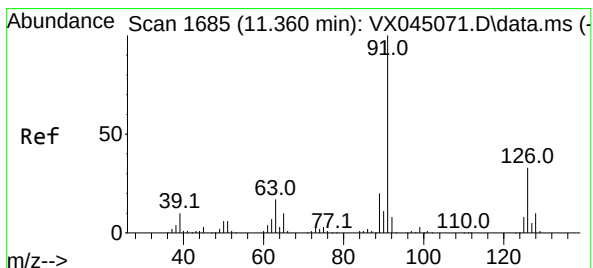
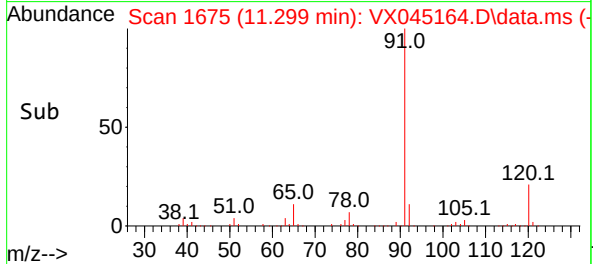
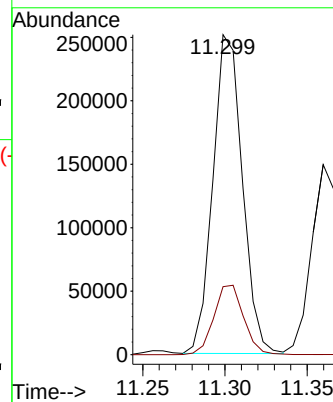
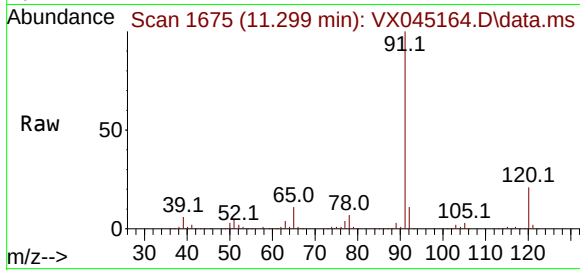
120 22.1 11.2 33.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#79

2-Chlorotoluene

Concen: 48.816 ug/l

RT: 11.360 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VX045164.D

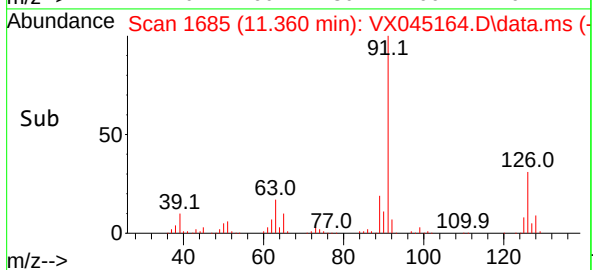
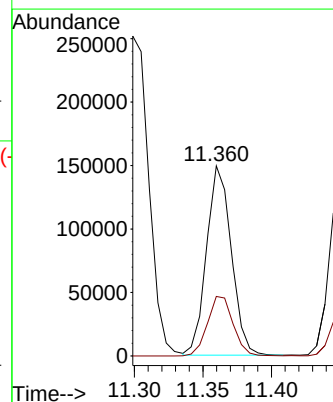
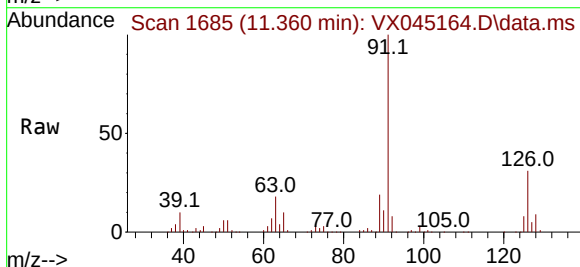
Acq: 06 Mar 2025 13:33

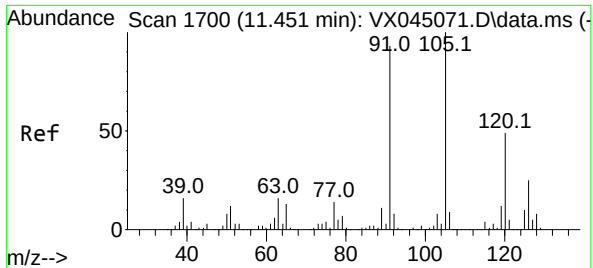
Tgt Ion: 91 Resp: 187387

Ion Ratio Lower Upper

91 100

126 32.8 16.4 49.4





#80

1,3,5-Trimethylbenzene

Concen: 50.977 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX045164.D

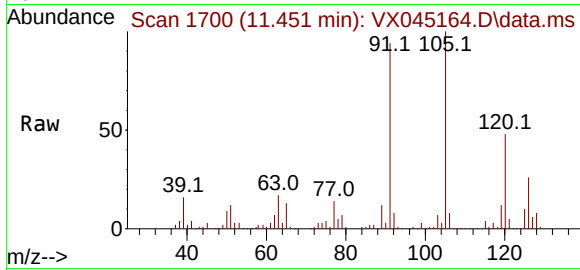
Acq: 06 Mar 2025 13:33

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MSD



Tgt Ion:105 Resp: 219930

Ion Ratio Lower Upper

105 100

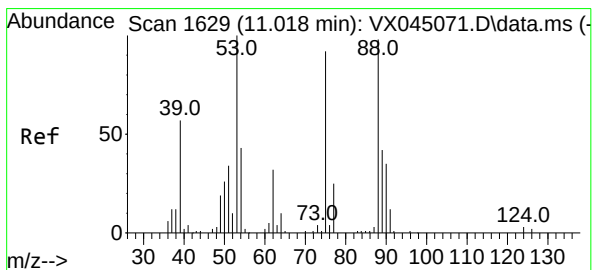
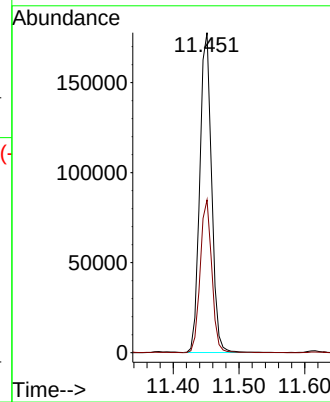
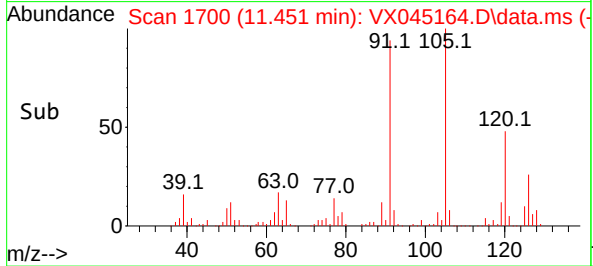
120 47.2 24.1 72.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#81

trans-1,4-Dichloro-2-butene

Concen: 48.110 ug/l

RT: 11.018 min Scan# 1629

Delta R.T. 0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

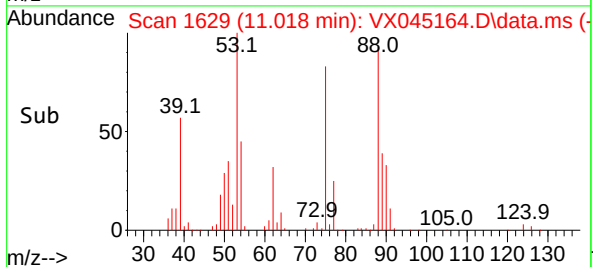
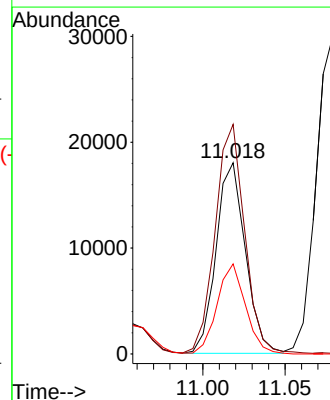
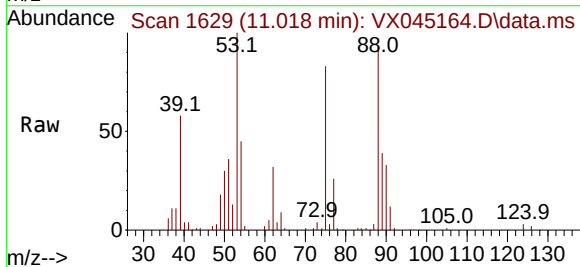
Tgt Ion: 75 Resp: 22368

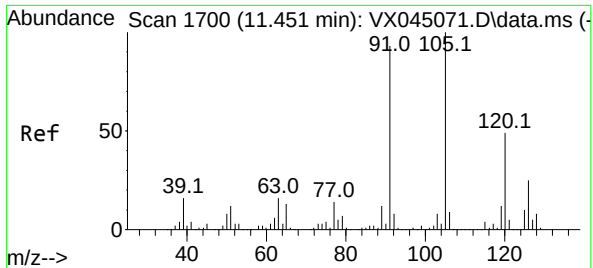
Ion Ratio Lower Upper

75 100

53 120.5 88.5 132.7

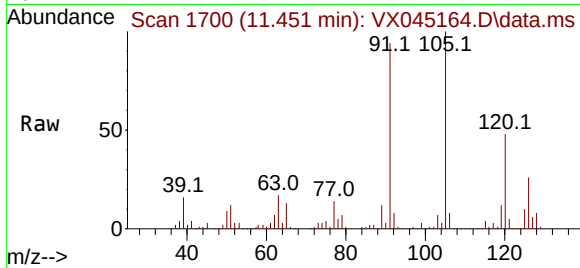
89 45.9 36.2 54.4





#82
4-Chlorotoluene
Concen: 50.418 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

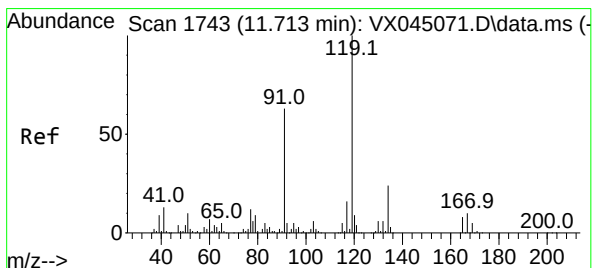
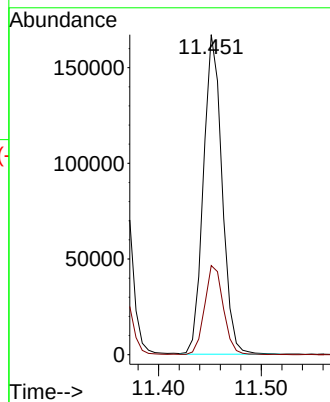
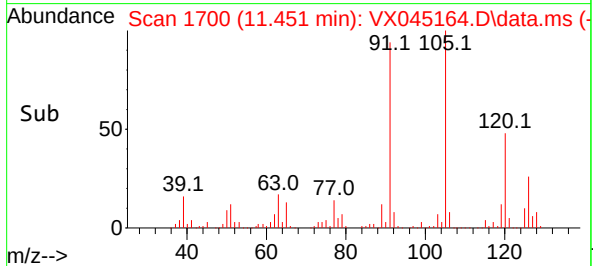
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD



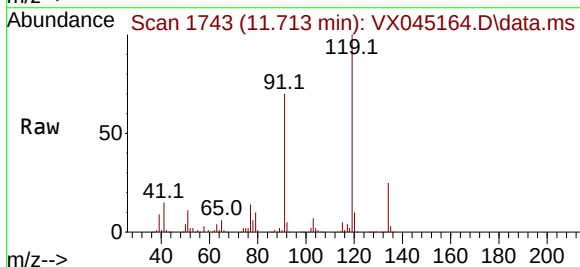
Tgt Ion: 91 Resp: 210920
Ion Ratio Lower Upper
91 100
126 28.2 14.1 42.4

Manual Integrations
APPROVED

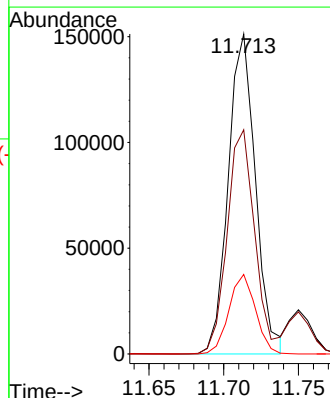
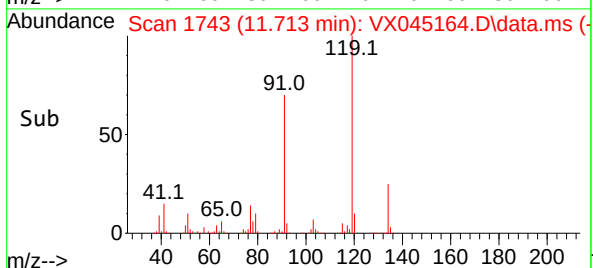
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

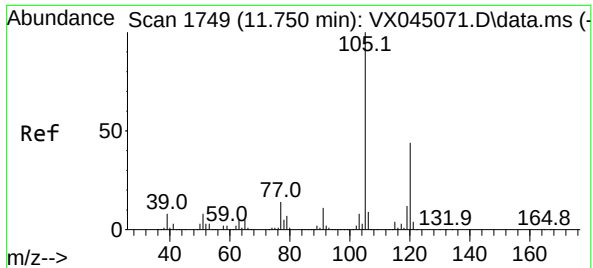


#83
tert-Butylbenzene
Concen: 43.186 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33



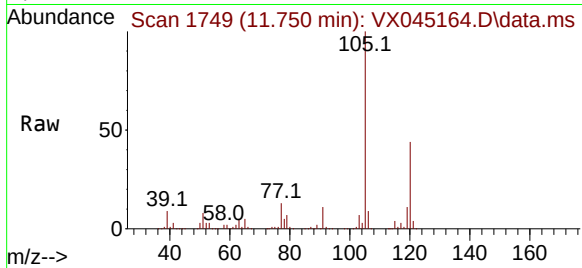
Tgt Ion:119 Resp: 191439
Ion Ratio Lower Upper
119 100
91 71.8 30.7 92.1
134 24.2 11.7 35.0





#84
1,2,4-Trimethylbenzene
Concen: 51.727 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

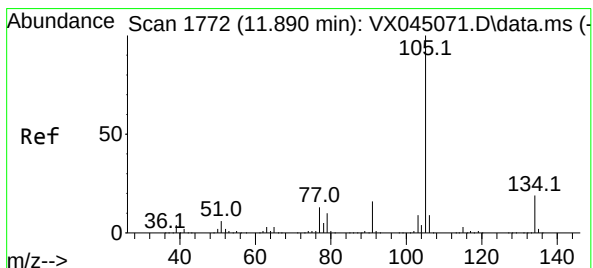
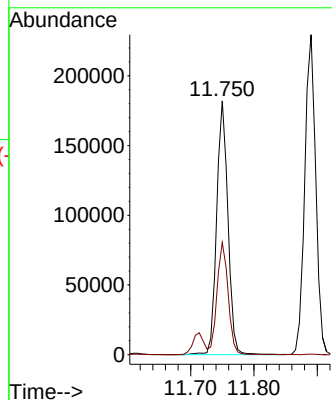
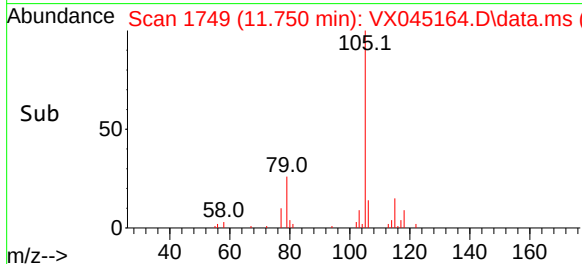
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD



Tgt Ion:105 Resp: 224549
Ion Ratio Lower Upper
105 100
120 43.9 22.1 66.1

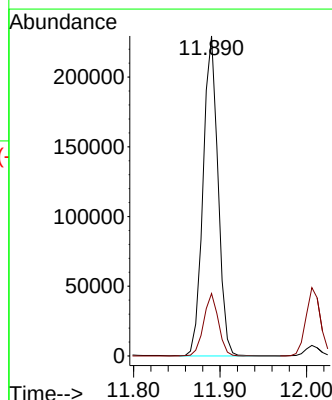
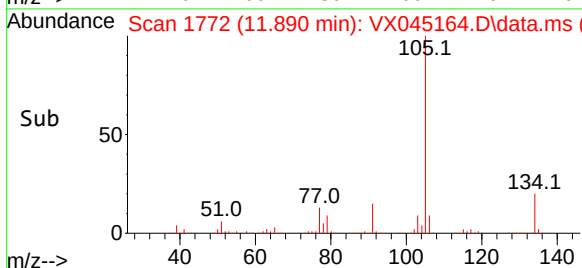
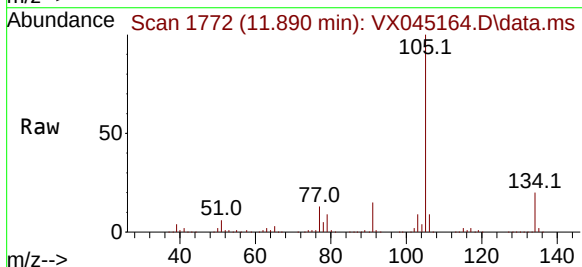
Manual Integrations
APPROVED

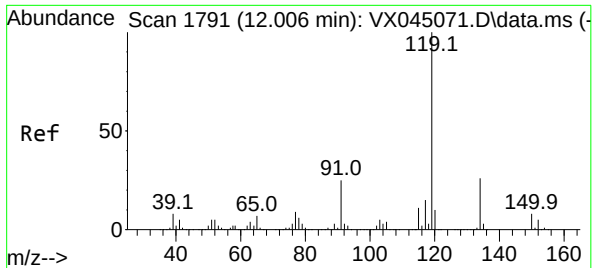
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



#85
sec-Butylbenzene
Concen: 51.789 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

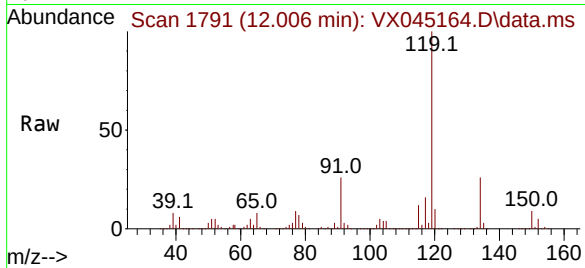
Tgt Ion:105 Resp: 274996
Ion Ratio Lower Upper
105 100
134 19.2 9.8 29.4





#86
p-Isopropyltoluene
Concen: 51.865 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

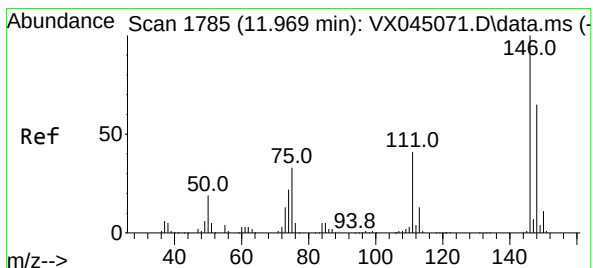
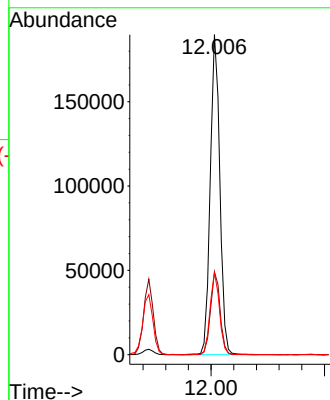
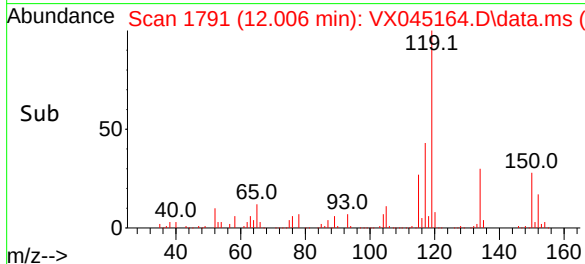
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD



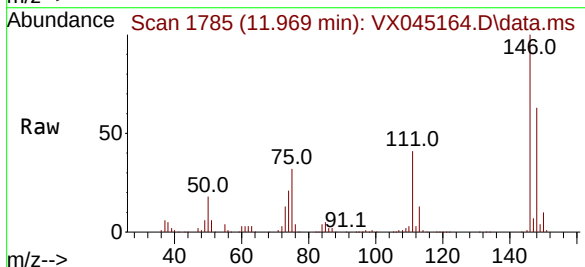
Tgt Ion:119 Resp: 222560
Ion Ratio Lower Upper
119 100
134 25.8 12.9 38.6
91 25.3 12.7 38.0

Manual Integrations
APPROVED

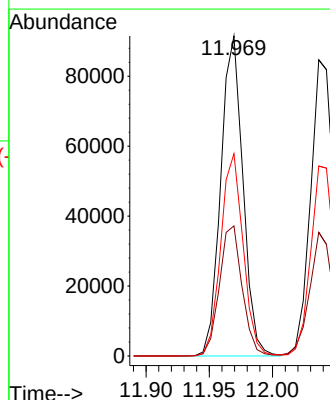
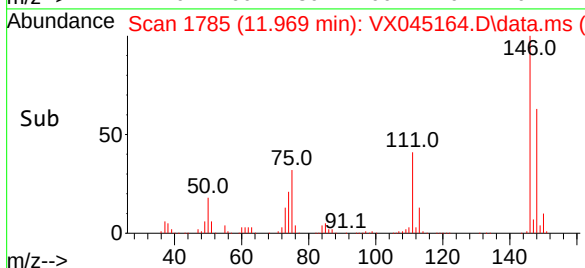
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

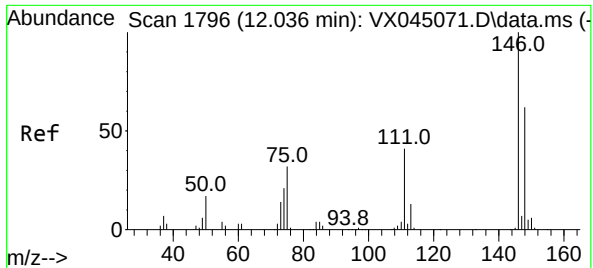


#87
1,3-Dichlorobenzene
Concen: 49.643 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33



Tgt Ion:146 Resp: 111489
Ion Ratio Lower Upper
146 100
111 41.8 21.1 63.4
148 63.8 31.9 95.7





#88

1,4-Dichlorobenzene

Concen: 48.307 ug/l

RT: 12.036 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MSD

Tgt Ion:146 Resp: 109759

Ion Ratio Lower Upper

146 100

111 40.9 20.2 60.5

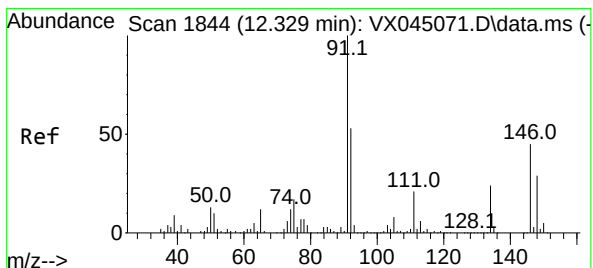
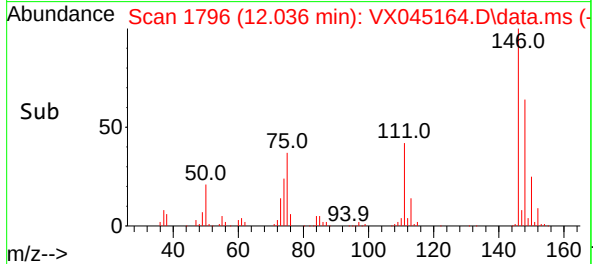
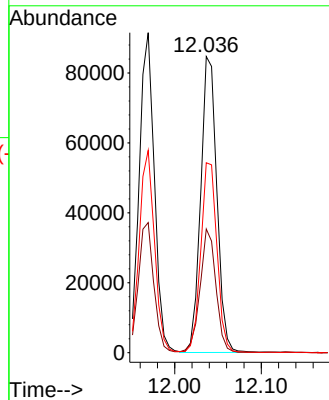
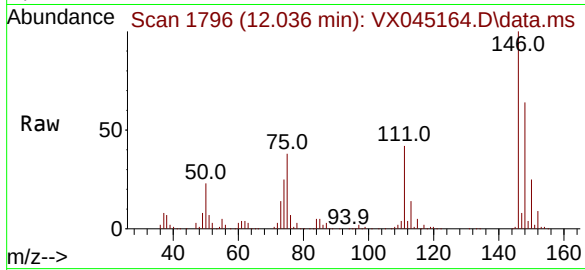
148 64.5 31.9 95.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#89

n-Butylbenzene

Concen: 53.723 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

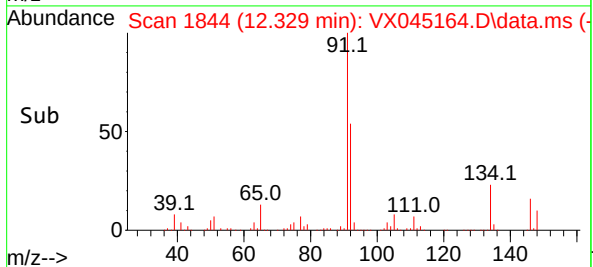
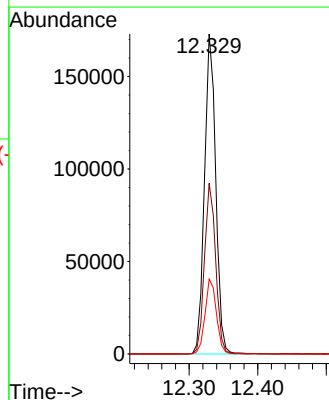
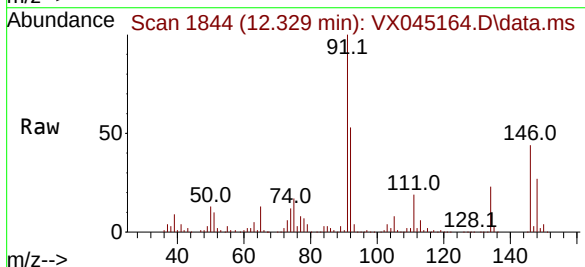
Tgt Ion: 91 Resp: 198557

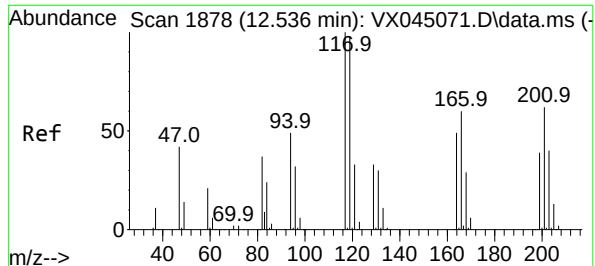
Ion Ratio Lower Upper

91 100

92 53.1 26.7 80.0

134 23.6 12.2 36.6





#90

Hexachloroethane

Concen: 49.070 ug/l

RT: 12.536 min Scan# 117

Delta R.T. 0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MSD

Tgt Ion:117 Resp: 3808

Ion Ratio Lower Upper

117 100

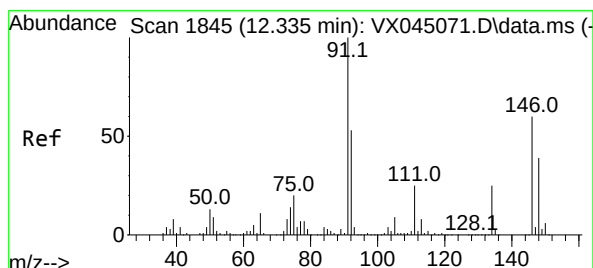
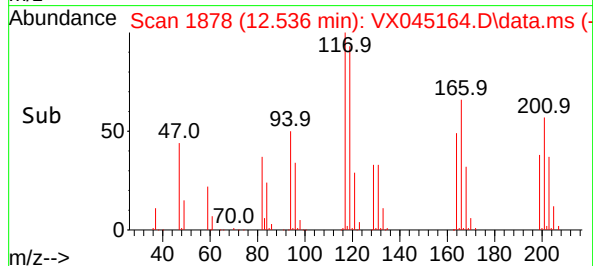
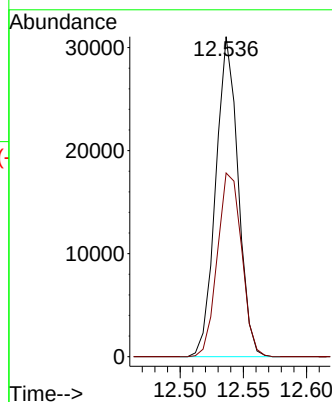
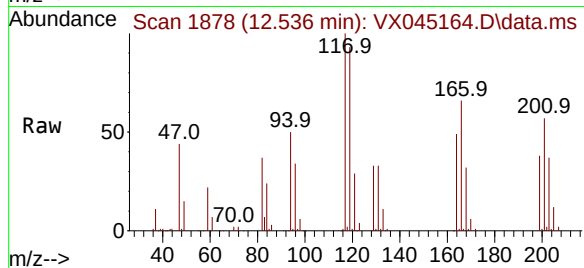
201 62.5 31.9 95.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#91

1,2-Dichlorobenzene

Concen: 48.912 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

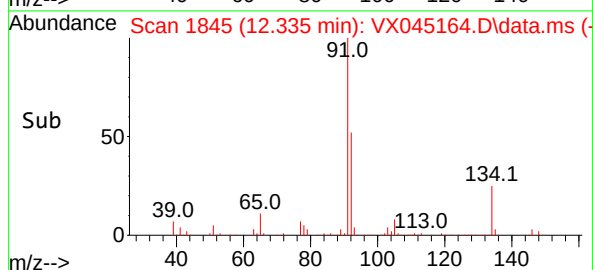
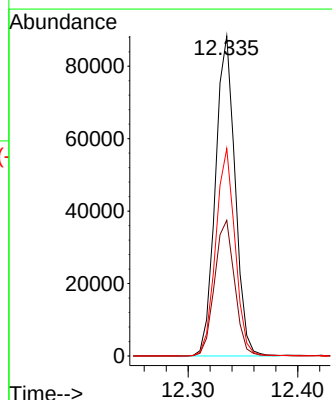
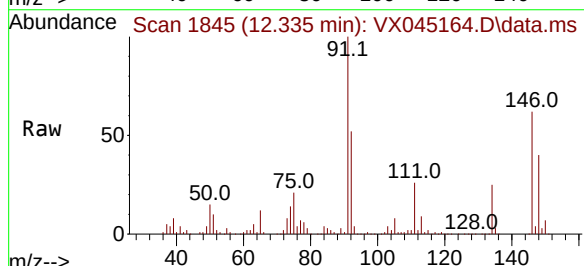
Tgt Ion:146 Resp: 110193

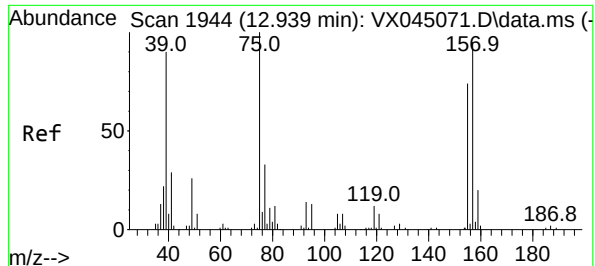
Ion Ratio Lower Upper

146 100

111 43.2 21.6 65.0

148 63.9 31.9 95.9





#92

1,2-Dibromo-3-Chloropropane

Concen: 17.187 ug/l

RT: 12.939 min Scan# 1944

Delta R.T. 0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

Instrument :

MSVOA_X

ClientSampleId :

BR-05-465-030525MSD

Tgt Ion: 75 Resp: 6550

Ion Ratio Lower Upper

75 100

155 77.0 39.6 118.7

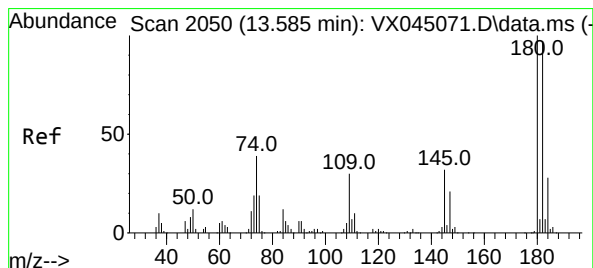
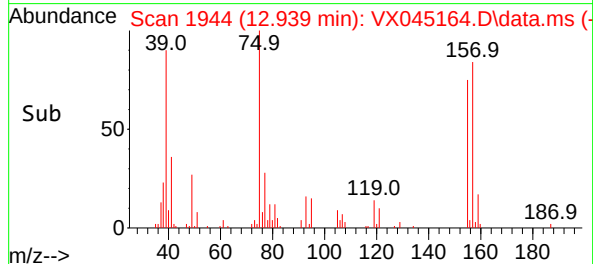
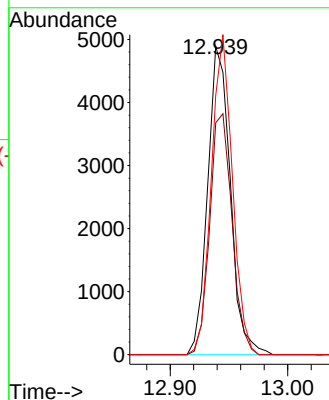
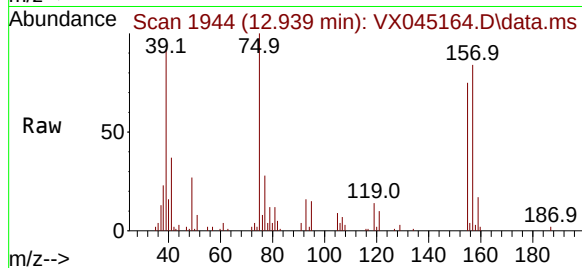
157 96.5 51.1 153.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/10/2025

Supervised By :Mahesh Dadoda 03/10/2025



#93

1,2,4-Trichlorobenzene

Concen: 49.957 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX045164.D

Acq: 06 Mar 2025 13:33

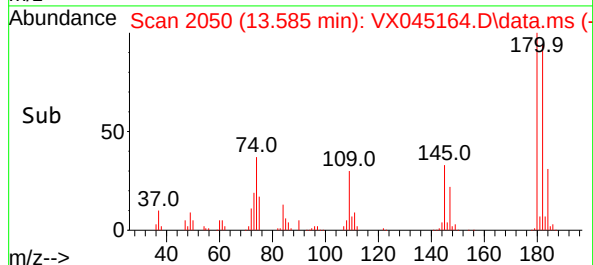
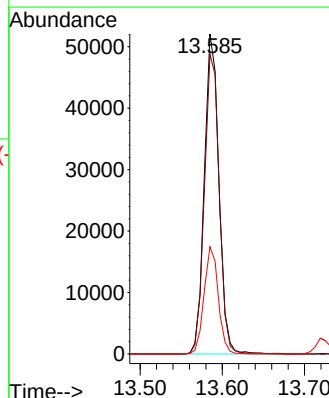
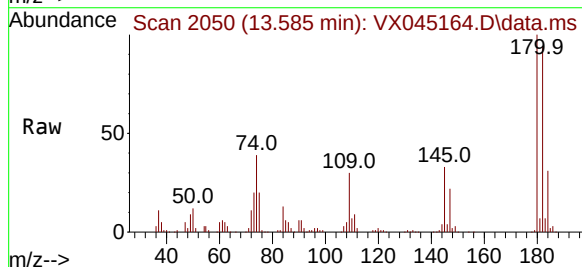
Tgt Ion:180 Resp: 64085

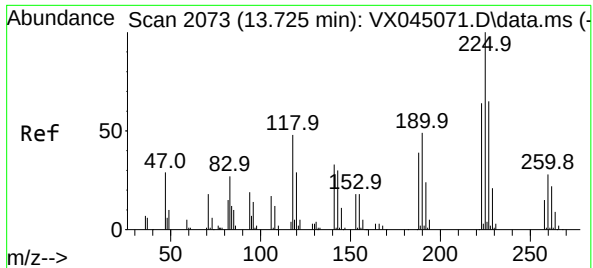
Ion Ratio Lower Upper

180 100

182 95.3 47.3 141.9

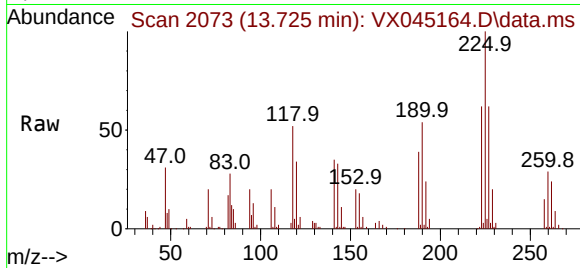
145 32.7 16.3 48.9





#94
Hexachlorobutadiene
Concen: 48.257 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

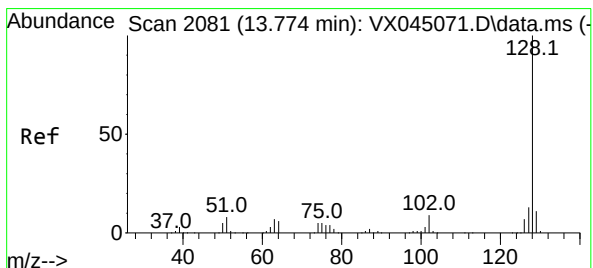
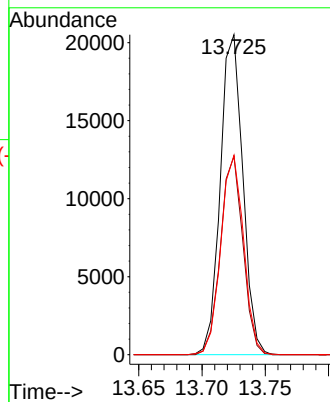
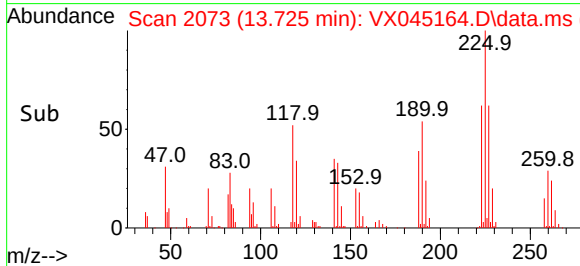
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD



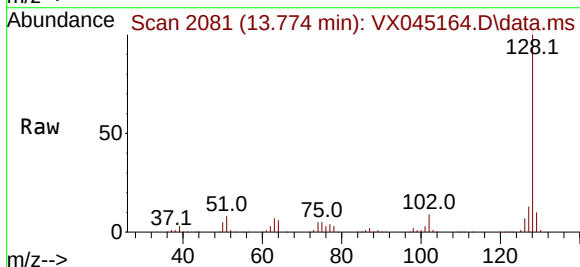
Tgt Ion:225 Resp: 25380
Ion Ratio Lower Upper
225 100
223 61.6 31.9 95.7
227 63.0 31.4 94.0

Manual Integrations
APPROVED

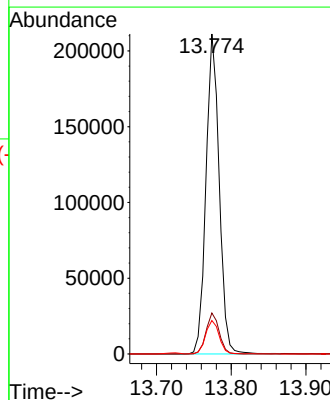
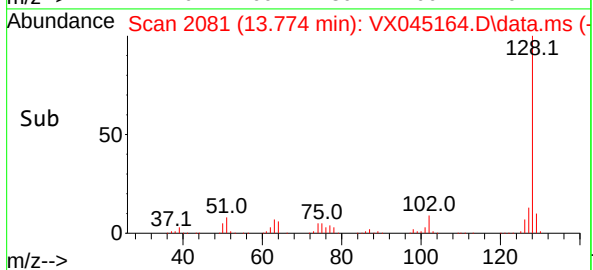
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

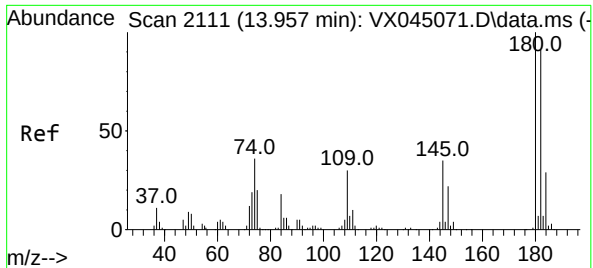


#95
Naphthalene
Concen: 52.481 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33



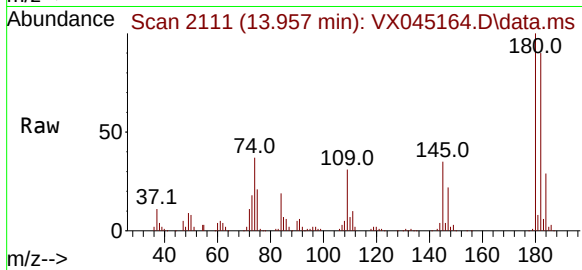
Tgt Ion:128 Resp: 258663
Ion Ratio Lower Upper
128 100
127 12.7 10.3 15.5
129 10.7 8.7 13.1





#96
1,2,3-Trichlorobenzene
Concen: 50.923 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

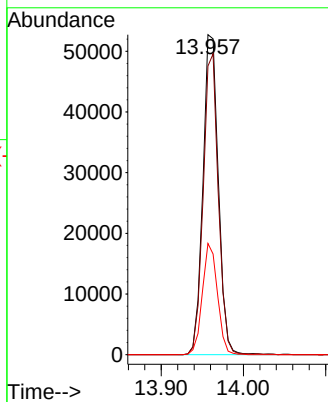
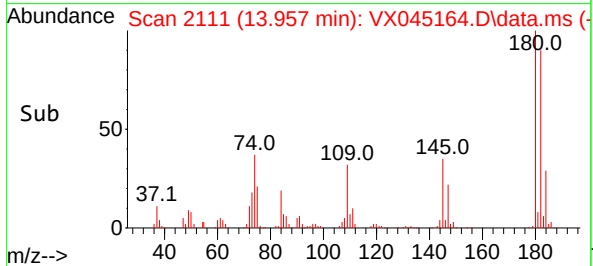
Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD



Tgt Ion:180 Resp: 68914
Ion Ratio Lower Upper
180 100
182 92.2 47.5 142.6
145 33.9 17.0 50.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



Manual Integration Report

Sequence:

VX022825

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX045068.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	1,4-Dichlorobenzene	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Carbon Tetrachloride	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Chloroethane	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Ethyl Acetate	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Methacrylonitrile	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Methyl methacrylate	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC005	VX045069.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:14 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC005	VX045069.D	Tert butyl alcohol	JOHN	2/28/2025 10:05:14 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC020	VX045070.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:21 AM	MMDadoda	2/28/2025 11:09:33 AM	Peak Integrated by Software
VSTDICCC050	VX045071.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:25 AM	MMDadoda	2/28/2025 11:09:35 AM	Peak Integrated by Software
VSTDICC100	VX045072.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:30 AM	MMDadoda	2/28/2025 11:09:37 AM	Peak Integrated by Software
VSTDICC150	VX045073.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:33 AM	MMDadoda	2/28/2025 11:09:42 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VX022825

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VX045075.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:38 AM	MMDadoda	2/28/2025 11:09:44 AM	Peak Integrated by Software
VSTDCCC050	VX045077.D	1,2,3-Trichloropropane	JOHN	3/3/2025 8:20:45 AM	MMDadoda	3/3/2025 1:49:43 PM	Peak Integrated by Software
VSTDCCC050	VX045077.D	Tert butyl alcohol	JOHN	3/3/2025 8:20:45 AM	MMDadoda	3/3/2025 1:49:43 PM	Peak Integrated by Software
VSTDCCC050	VX045098.D	1,2,3-Trichloropropane	JOHN	3/3/2025 8:20:59 AM	MMDadoda	3/3/2025 1:49:50 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VX030625

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX045155.D	1,2,3-Trichloropropane	JOHN	3/10/2025 9:41:16 AM	MMDadoda	3/10/2025 2:26:53 PM	Peak Integrated by Software
VX0306WBS01	VX045158.D	1,2,3-Trichloropropane	JOHN	3/10/2025 9:41:21 AM	MMDadoda	3/10/2025 2:26:53 PM	Peak Integrated by Software
Q1501-05MS	VX045163.D	1,2,3-Trichloropropane	JOHN	3/10/2025 9:41:30 AM	MMDadoda	3/10/2025 2:26:56 PM	Peak Integrated by Software
Q1501-06MSD	VX045164.D	1,2,3-Trichloropropane	JOHN	3/10/2025 9:41:34 AM	MMDadoda	3/10/2025 2:26:57 PM	Peak Integrated by Software
VSTDCCC050	VX045181.D	1,2,3-Trichloropropane	JOHN	3/10/2025 9:42:04 AM	MMDadoda	3/10/2025 2:27:00 PM	Peak Integrated by Software

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX022825

Review By	Mahesh Dadoda	Review On	2/28/2025 11:09:50 AM
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:09 AM
SubDirectory	VX022825	HP Acquire Method	HP Processing Method 82X022825W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133187,VP133189		
Initial Calibration Stds	VP133194,VP133195,VP133196,VP133197,VP133198,VP133199		
CCC	VP133188,VP133190		
Internal Standard/PEM			
ICV/I.BLK	VP133200		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045067.D	28 Feb 2025 01:03	JC/MD	Ok
2	VSTDICC001	VX045068.D	28 Feb 2025 01:27	JC/MD	Ok,M
3	VSTDICC005	VX045069.D	28 Feb 2025 02:13	JC/MD	Ok,M
4	VSTDICC020	VX045070.D	28 Feb 2025 02:37	JC/MD	Ok,M
5	VSTDICCC050	VX045071.D	28 Feb 2025 03:00	JC/MD	Ok,M
6	VSTDICC100	VX045072.D	28 Feb 2025 03:23	JC/MD	Ok,M
7	VSTDICC150	VX045073.D	28 Feb 2025 03:47	JC/MD	Ok,M
8	IBLK	VX045074.D	28 Feb 2025 04:10	JC/MD	Ok
9	VSTDICV050	VX045075.D	28 Feb 2025 04:33	JC/MD	Ok,M
10	BFB	VX045076.D	28 Feb 2025 10:03	JC/MD	Ok
11	VSTDCCC050	VX045077.D	28 Feb 2025 10:32	JC/MD	Ok,M
12	VX0228MBL01	VX045078.D	28 Feb 2025 11:00	JC/MD	Ok
13	VX0228WBL01	VX045079.D	28 Feb 2025 11:23	JC/MD	Ok
14	VX0228WBS01	VX045080.D	28 Feb 2025 11:46	JC/MD	Ok,M
15	VX0228WBSD01	VX045081.D	28 Feb 2025 12:13	JC/MD	Ok,M
16	Q1401-03	VX045082.D	28 Feb 2025 12:37	JC/MD	Ok
17	Q1401-06	VX045083.D	28 Feb 2025 13:00	JC/MD	Ok
18	Q1423-01	VX045084.D	28 Feb 2025 13:23	JC/MD	Ok
19	Q1423-03	VX045085.D	28 Feb 2025 13:47	JC/MD	Ok
20	Q1403-01	VX045086.D	28 Feb 2025 14:10	JC/MD	Ok
21	Q1403-02	VX045087.D	28 Feb 2025 14:33	JC/MD	Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX022825

Review By	Maresh Dadoda	Review On	2/28/2025 11:09:50 AM
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:09 AM
SubDirectory	VX022825	HP Acquire Method	HP Processing Method 82X022825W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133187,VP133189		
Initial Calibration Stds	VP133194,VP133195,VP133196,VP133197,VP133198,VP133199		
CCC	VP133188,VP133190		
Internal Standard/PEM			
ICV/I.BLK	VP133200		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q1435-01	VX045088.D	28 Feb 2025 14:57	JC/MD	Ok
23	Q1403-04	VX045089.D	28 Feb 2025 15:20	JC/MD	Ok
24	Q1462-02	VX045090.D	28 Feb 2025 15:44	JC/MD	Ok
25	Q1469-01	VX045091.D	28 Feb 2025 16:07	JC/MD	Ok
26	Q1469-02	VX045092.D	28 Feb 2025 16:31	JC/MD	Ok
27	Q1469-03	VX045093.D	28 Feb 2025 16:54	JC/MD	Ok
28	Q1469-04	VX045094.D	28 Feb 2025 17:17	JC/MD	Ok
29	Q1403-03	VX045095.D	28 Feb 2025 17:41	JC/MD	Ok
30	Q1462-01	VX045096.D	28 Feb 2025 18:04	JC/MD	Ok,M
31	IBLK	VX045097.D	28 Feb 2025 18:27	JC/MD	Ok
32	VSTDCCC050	VX045098.D	28 Feb 2025 18:50	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX030625

Review By	John Carlone	Review On	3/10/2025 9:58:48 AM
Supervise By	Maresh Dadoda	Supervise On	3/10/2025 2:27:03 PM
SubDirectory	VX030625	HP Acquire Method	HP Processing Method 82X022825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133226		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133227,VP133228		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045154.D	06 Mar 2025 09:09	JC/MD	Ok
2	VSTDCCC050	VX045155.D	06 Mar 2025 09:56	JC/MD	Ok,M
3	VX0306MBL01	VX045156.D	06 Mar 2025 10:23	JC/MD	Ok
4	VX0306WBL01	VX045157.D	06 Mar 2025 10:46	JC/MD	Ok
5	VX0306WBS01	VX045158.D	06 Mar 2025 11:10	JC/MD	Ok,M
6	Q1501-01	VX045159.D	06 Mar 2025 11:36	JC/MD	Ok
7	Q1501-02	VX045160.D	06 Mar 2025 12:00	JC/MD	Ok
8	Q1488-14DL	VX045161.D	06 Mar 2025 12:23	JC/MD	Ok,M
9	Q1501-04	VX045162.D	06 Mar 2025 12:46	JC/MD	ReRun
10	Q1501-05MS	VX045163.D	06 Mar 2025 13:09	JC/MD	Ok,M
11	Q1501-06MSD	VX045164.D	06 Mar 2025 13:33	JC/MD	Ok,M
12	Q1484-06	VX045165.D	06 Mar 2025 13:56	JC/MD	Ok
13	Q1494-01	VX045166.D	06 Mar 2025 14:19	JC/MD	Ok
14	Q1501-04RE	VX045167.D	06 Mar 2025 14:43	JC/MD	Confirms
15	PB166989TB	VX045168.D	06 Mar 2025 15:06	JC/MD	Ok
16	Q1481-02	VX045169.D	06 Mar 2025 15:29	JC/MD	Ok,M
17	Q1488-02	VX045170.D	06 Mar 2025 15:52	JC/MD	Ok
18	Q1488-04	VX045171.D	06 Mar 2025 16:16	JC/MD	Ok
19	Q1488-06	VX045172.D	06 Mar 2025 16:39	JC/MD	Ok
20	Q1488-08	VX045173.D	06 Mar 2025 17:02	JC/MD	Ok
21	Q1488-10	VX045174.D	06 Mar 2025 17:25	JC/MD	Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX030625

Review By	John Carlone	Review On	3/10/2025 9:58:48 AM
Supervise By	Mahesh Dadoda	Supervise On	3/10/2025 2:27:03 PM
SubDirectory	VX030625	HP Acquire Method	HP Processing Method 82X022825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133226		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133227,VP133228		

22	Q1488-12	VX045175.D	06 Mar 2025 17:49	JC/MD	Ok
23	Q1490-02	VX045176.D	06 Mar 2025 18:12	JC/MD	Ok
24	Q1494-04	VX045177.D	06 Mar 2025 18:35	JC/MD	Ok
25	Q1494-06	VX045178.D	06 Mar 2025 18:59	JC/MD	Ok
26	Q1494-08	VX045179.D	06 Mar 2025 19:22	JC/MD	Ok
27	Q1478-15	VX045180.D	06 Mar 2025 19:45	JC/MD	Ok
28	VSTDCCC050	VX045181.D	06 Mar 2025 20:09	JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX022825

Review By	Mahesh Dadoda	Review On	2/28/2025 11:09:50 AM
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:09 AM
SubDirectory	VX022825	HP Acquire Method	HP Processing Method 82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133187,VP133189
Initial Calibration Stds	VP133194,VP133195,VP133196,VP133197,VP133198,VP133199
CCC	VP133188,VP133190
Internal Standard/PEM	
ICV/I.BLK	VP133200
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045067.D	28 Feb 2025 01:03		JC/MD	Ok
2	VSTDIC001	VSTDIC001	VX045068.D	28 Feb 2025 01:27		JC/MD	Ok,M
3	VSTDIC005	VSTDIC005	VX045069.D	28 Feb 2025 02:13		JC/MD	Ok,M
4	VSTDIC020	VSTDIC020	VX045070.D	28 Feb 2025 02:37		JC/MD	Ok,M
5	VSTDIC050	VSTDIC050	VX045071.D	28 Feb 2025 03:00		JC/MD	Ok,M
6	VSTDIC100	VSTDIC100	VX045072.D	28 Feb 2025 03:23		JC/MD	Ok,M
7	VSTDIC150	VSTDIC150	VX045073.D	28 Feb 2025 03:47		JC/MD	Ok,M
8	IBLK	IBLK	VX045074.D	28 Feb 2025 04:10		JC/MD	Ok
9	VSTDICV050	ICVVX022825	VX045075.D	28 Feb 2025 04:33		JC/MD	Ok,M
10	BFB	BFB	VX045076.D	28 Feb 2025 10:03		JC/MD	Ok
11	VSTDIC050	VSTDIC050	VX045077.D	28 Feb 2025 10:32	V12668	JC/MD	Ok,M
12	VX0228MBL01	VX0228MBL01	VX045078.D	28 Feb 2025 11:00		JC/MD	Ok
13	VX0228WBL01	VX0228WBL01	VX045079.D	28 Feb 2025 11:23		JC/MD	Ok
14	VX0228WBS01	VX0228WBS01	VX045080.D	28 Feb 2025 11:46		JC/MD	Ok,M
15	VX0228WBSD01	VX0228WBSD01	VX045081.D	28 Feb 2025 12:13		JC/MD	Ok,M
16	Q1401-03	BP-VPB-192-GW-840-8	VX045082.D	28 Feb 2025 12:37	vial B pH<2	JC/MD	Ok
17	Q1401-06	BP-VPB-192-GW-900-9	VX045083.D	28 Feb 2025 13:00	vial B pH<2	JC/MD	Ok
18	Q1423-01	BP-VPB-192-TB-20250	VX045084.D	28 Feb 2025 13:23	vial B pH<2 TB	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX022825

Review By	Maresh Dadoda	Review On	2/28/2025 11:09:50 AM
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:09 AM
SubDirectory	VX022825	HP Acquire Method	HP Processing Method 82X022825W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133187,VP133189		
Initial Calibration Stds	VP133194,VP133195,VP133196,VP133197,VP133198,VP133199		
CCC	VP133188,VP133190		
Internal Standard/PEM			
ICV/I.BLK	VP133200		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q1423-03	BP-VPB-192-EB-20250	VX045085.D	28 Feb 2025 13:47	vial B pH<2 EB	JC/MD	Ok
20	Q1403-01	Storage-Blank-SOIL-RE	VX045086.D	28 Feb 2025 14:10	vial B pH<2	JC/MD	Ok
21	Q1403-02	Storage-Blank-WATER-	VX045087.D	28 Feb 2025 14:33	vial B pH<2	JC/MD	Ok
22	Q1435-01	286107	VX045088.D	28 Feb 2025 14:57	vial A pH<2	JC/MD	Ok
23	Q1403-04	Storage-Blank-SAMPLE	VX045089.D	28 Feb 2025 15:20	vial B pH<2	JC/MD	Ok
24	Q1462-02	FB	VX045090.D	28 Feb 2025 15:44	vial A pH<2 FB	JC/MD	Ok
25	Q1469-01	Storage-Blank-SOIL-RE	VX045091.D	28 Feb 2025 16:07	vial A pH<2	JC/MD	Ok
26	Q1469-02	Storage-Blank-WATER-	VX045092.D	28 Feb 2025 16:31	vial A pH<2	JC/MD	Ok
27	Q1469-03	Storage-Blank-WATER-	VX045093.D	28 Feb 2025 16:54	vial A pH<2	JC/MD	Ok
28	Q1469-04	Storage-Blank-SAMPLE	VX045094.D	28 Feb 2025 17:17	vial A pH<2	JC/MD	Ok
29	Q1403-03	Storage-Blank-WATER-	VX045095.D	28 Feb 2025 17:41	vial B pH<2	JC/MD	Ok
30	Q1462-01	MW2	VX045096.D	28 Feb 2025 18:04	vial A pH<2	JC/MD	Ok,M
31	IBLK	IBLK	VX045097.D	28 Feb 2025 18:27		JC/MD	Ok
32	VSTDCCC050	VSTDCCC050EC	VX045098.D	28 Feb 2025 18:50		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX030625

Review By	John Carlone	Review On	3/10/2025 9:58:48 AM
Supervise By	Maresh Dadoda	Supervise On	3/10/2025 2:27:03 PM
SubDirectory	VX030625	HP Acquire Method	HP Processing Method 82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP133226
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133227,VP133228

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045154.D	06 Mar 2025 09:09		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX045155.D	06 Mar 2025 09:56	pH#Lot#V12668	JC/MD	Ok,M
3	VX0306MBL01	VX0306MBL01	VX045156.D	06 Mar 2025 10:23		JC/MD	Ok
4	VX0306WBL01	VX0306WBL01	VX045157.D	06 Mar 2025 10:46		JC/MD	Ok
5	VX0306WBS01	VX0306WBS01	VX045158.D	06 Mar 2025 11:10		JC/MD	Ok,M
6	Q1501-01	MW-16B-87.5-030425	VX045159.D	06 Mar 2025 11:36	vial A pH<2	JC/MD	Ok
7	Q1501-02	MW-16B-87.5-030425	VX045160.D	06 Mar 2025 12:00	vial A pH<2	JC/MD	Ok
8	Q1488-14DL	ENV-104-GW01DL	VX045161.D	06 Mar 2025 12:23	vial B pH<2	JC/MD	Ok,M
9	Q1501-04	BR-05-465-030525	VX045162.D	06 Mar 2025 12:46	vial A pH<2 Surrogate Fail	JC/MD	ReRun
10	Q1501-05MS	BR-05-465-030525MS	VX045163.D	06 Mar 2025 13:09	vial A pH<2	JC/MD	Ok,M
11	Q1501-06MSD	BR-05-465-030525MSD	VX045164.D	06 Mar 2025 13:33	vial A pH<2	JC/MD	Ok,M
12	Q1484-06	TR-OTR-COMP-01	VX045165.D	06 Mar 2025 13:56	vial A pH#5.0	JC/MD	Ok
13	Q1494-01	PURGE-WATER	VX045166.D	06 Mar 2025 14:19	vial B pH<2	JC/MD	Ok
14	Q1501-04RE	BR-05-465-030525RE	VX045167.D	06 Mar 2025 14:43	vial B pH<2 Surrogate Fail	JC/MD	Confirms
15	PB166989TB	PB166989TB	VX045168.D	06 Mar 2025 15:06		JC/MD	Ok
16	Q1481-02	WC-K1311	VX045169.D	06 Mar 2025 15:29	vial A pH#5.0	JC/MD	Ok,M
17	Q1488-02	ENV-101-SB01	VX045170.D	06 Mar 2025 15:52	vial A pH#5.0	JC/MD	Ok
18	Q1488-04	ENV-101-SB02	VX045171.D	06 Mar 2025 16:16	vial A pH#5.0	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX030625

Review By	John Carlone	Review On	3/10/2025 9:58:48 AM
Supervise By	Maresh Dadoda	Supervise On	3/10/2025 2:27:03 PM
SubDirectory	VX030625	HP Acquire Method	HP Processing Method 82X022825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133226		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133227,VP133228		

19	Q1488-06	ENV-102-SB01	VX045172.D	06 Mar 2025 16:39	vial A pH#5.0	JC/MD	Ok
20	Q1488-08	ENV-102-SB02	VX045173.D	06 Mar 2025 17:02	vial A pH#5.0	JC/MD	Ok
21	Q1488-10	ENV-104-SB01	VX045174.D	06 Mar 2025 17:25	vial A pH#5.0	JC/MD	Ok
22	Q1488-12	ENV-104-SB02	VX045175.D	06 Mar 2025 17:49	vial A pH#5.0	JC/MD	Ok
23	Q1490-02	CLAY-SLUDGE-DRUM	VX045176.D	06 Mar 2025 18:12	vial A pH#5.0	JC/MD	Ok
24	Q1494-04	ASPHALT-SOIL	VX045177.D	06 Mar 2025 18:35	vial A pH#5.0	JC/MD	Ok
25	Q1494-06	SOIL	VX045178.D	06 Mar 2025 18:59	vial A pH#5.0	JC/MD	Ok
26	Q1494-08	SOIL-COMP	VX045179.D	06 Mar 2025 19:22	vial A pH#5.0	JC/MD	Ok
27	Q1478-15	IDW-SO-DRUM-582-02	VX045180.D	06 Mar 2025 19:45	vial A pH#5.0	JC/MD	Ok
28	VSTDCCC050	VSTDCCC050EC	VX045181.D	06 Mar 2025 20:09		JC/MD	Ok,M

M : Manual Integration

SOP ID : M1311-TCLP-15
SDG No : N/A
Weigh By : JP
Balance ID : WC SC-7
pH Meter ID : WC PH METER-1
Extraction By : JP
Filter By : JP
Pipette ID : WC
Tumbler ID : ZHE-1 / ZHE-2
TCLP Filter ID : 50223706

Start Prep Date : 03/05/2025 Time : 16:30

End Prep Date : 03/06/2025 Time : 10:35

Combination Ratio : 20

ZHE Cleaning Batch : N/A V1030625

Initial Room Temperature: 24 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : *JP*

Supervisor By : *12*

Standard Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP110802
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
40ml VOA Vials	23237	N/A

Extraction Conformance/Non-Conformance Comments:

Tumbler ZHE-1 /ZHE-2 checked,30 rpm. ALL ZHE samples are extracted and given as vial A & B. Leak checked after 10 minties of tumbling.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/06/25 11:35	<i>JP</i> /CLP ROOM	<i>MD</i> /OCC Lab
	Preparation Group	Analysis Group

Sample ID	ClientID	ZHE Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB166989TB	LEB989	14	N/A	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1478-15	IDW-SO-DRUM-582-022825	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1481-02	WC-K1311	02	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1484-06	TR-OTR-COMP-01	03	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1488-02	ENV-101-SB01	04	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1488-04	ENV-101-SB02	05	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1488-06	ENV-102-SB01	06	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1488-08	ENV-102-SB02	07	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1488-10	ENV-104-SB01	08	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1488-12	ENV-104-SB02	09	25.05	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1490-02	CLAY-SLUDGE-DRUMS	10	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1494-04	ASPHALT-SOIL	11	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1494-06	SOIL	12	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1494-08	SOIL-COMP	13	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB166989TB	LEB989	N/A	N/A	N/A	N/A	N/A	N/A
Q1478-15	IDW-SO-DRUM-582-022825	N/A	N/A	N/A	N/A	100	N/A
Q1481-02	WC-K1311	N/A	N/A	N/A	N/A	100	N/A
Q1484-06	TR-OTR-COMP-01	N/A	N/A	N/A	N/A	100	N/A
Q1488-02	ENV-101-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1488-04	ENV-101-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1488-06	ENV-102-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1488-08	ENV-102-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1488-10	ENV-104-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1488-12	ENV-104-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1490-02	CLAY-SLUDGE-DRUMS	N/A	N/A	N/A	N/A	100	N/A
Q1494-04	ASPHALT-SOIL	N/A	N/A	N/A	N/A	100	N/A
Q1494-06	SOIL	N/A	N/A	N/A	N/A	100	N/A
Q1494-08	SOIL-COMP	N/A	N/A	N/A	N/A	100	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP ZHE Q1490 WorkList ID : 188041 Department : TCLP Extraction Date : 03-05-2025 12:45:26

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1478-15	IDW-SO-DRUM-582-022825	Solid	TCLP ZHE Extraction	Cool 4 deg C	JACO05	H31	02/28/2025	1311 ZHE
Q1481-02	WC-K1311	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	H31	03/04/2025	1311 ZHE
Q1484-06	TR-OTR-COMP-01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	H31	03/04/2025	1311 ZHE
Q1488-02	ENV-101-SB01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311 ZHE
Q1488-04	ENV-101-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311 ZHE
Q1488-06	ENV-102-SB01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311 ZHE
Q1488-08	ENV-102-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311 ZHE
Q1488-10	ENV-104-SB01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311 ZHE
Q1488-12	ENV-104-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311 ZHE
Q1490-02	CLAY-SLUDGE-DRUMS	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311 ZHE
Q1494-04	ASPHALT-SOIL	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	I21	03/05/2025	1311 ZHE
Q1494-06	SOIL	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	I31	03/05/2025	1311 ZHE
Q1494-08	SOIL-COMP	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	I31	03/05/2025	1311 ZHE

Date/Time 03/05/25 15:30
 Raw Sample Received by: SO wcl
 Raw Sample Relinquished by: SO wcl

Date/Time 03/05/25 17:30
 Raw Sample Received by: SO wcl
 Raw Sample Relinquished by: SO wcl

Prep Standard - Chemical Standard Summary

Order ID : Q1488

Test : TCLP VOA

Prepbatch ID :

Sequence ID/Qc Batch ID: VX030625,

Standard ID :

VP131746,VP131767,VP132035,VP132096,VP133036,VP133174,VP133178,VP133226,VP133227,VP133228,

Chemical ID :

V13391,V13457,V13460,V13465,V13466,V13706,V14154,V14175,V14176,V14289,V14433,V14439,V14521,V14522,V
14613,V14614,V14624,V14630,V14631,V14632,V14633,V14722,V14723,V14724,V14744,V14754,V14809,V14814,V14
842,V14872,V14873,V14874,V14875,W3112,

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
247	8260 Internal Standard, 250PPM	VP131746	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
11/23/2024								

FROM 0.50000ml of V14289 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
218	BFB, 25PPM	VP131767	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
11/27/2024								

FROM 0.50000ml of V13391 + 49.50000ml of V14154 = Final Quantity: 50.000 ml



VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1810	8260 Working Std(2-CVE)-800ppm	VP132035	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024

FROM 1.00000ml of V14630 + 1.00000ml of V14631 + 1.00000ml of V14632 + 1.00000ml of V14633 + 46.00000ml of V14614 = Final
Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
719	8260 Working STD (BCM)-First source, 400PPM	VP132096	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 1.00000ml of V13465 + 1.00000ml of V13466 + 1.50000ml of V13457 + 1.50000ml of V13460 + 20.00000ml of V14614 = Final
Quantity: 25.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
51	8260 Working STD (Acrolein) -first source, 800PPM	VP133036	02/14/2025	03/13/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								02/18/2025

FROM 1.00000ml of V14872 + 1.00000ml of V14873 + 1.00000ml of V14874 + 1.00000ml of V14875 + 21.00000ml of V14624 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
617	8260 Surrogate, 400PPM	VP133174	02/27/2025	08/27/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								03/04/2025

FROM 0.40000ml of V13706 + 24.60000ml of V14613 = Final Quantity: 25.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP133178	02/27/2025	03/31/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda 03/04/2025

FROM 0.40000ml of V14842 + 1.00000ml of V14175 + 1.00000ml of V14176 + 1.00000ml of V14433 + 1.00000ml of V14439 + 1.00000ml of V14521 + 1.00000ml of V14522 + 1.00000ml of V14724 + 1.00000ml of V14744 + 1.00000ml of V14754 + 1.00000ml of V14809 + 1.00000ml of V14814 + 1.50000ml of V14722 + 1.50000ml of V14723 + 10.60000ml of V14613 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
589	BFB TUNE CHECK	VP133226	03/06/2025	03/07/2025	John Carlone	None	None	Maresh Dadoda 03/11/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 ml

[illegible]

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
620	50 PPB CCC, 8260-Water	VP133228	03/06/2025	03/07/2025	John Carlone	None	None	Mahesh Dadoda 03/11/2025
<u>FROM</u>	39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP133036 + 0.01250ml of VP133178 = Final Quantity: 40.000 ml							

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13457

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13460

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13466

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	02/27/2026	02/27/2025 / SAM	04/12/2023 / SAM	V13706

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	05/18/2025	11/18/2024 / pedro	02/06/2024 / SAM	V14154

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14175

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14176

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	11/22/2025	11/22/2024 / SAM	04/15/2024 / SAM	V14289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	07/10/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14433

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	07/10/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14439

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	07/10/2025	01/10/2025 / SAM	09/18/2024 / SAM	V14521

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	07/10/2025	01/10/2025 / SAM	09/18/2024 / SAM	V14522

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	08/27/2025	02/27/2025 / SAM	11/26/2024 / SAM	V14613

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	06/10/2025	12/10/2024 / SAM	11/26/2024 / SAM	V14614

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	07/13/2025	01/13/2025 / SAM	11/26/2024 / SAM	V14624

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14630

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14631

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14632

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14633

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14722

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14723

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14724

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	08/27/2025	02/27/2025 / SAM	12/17/2024 / SAM	V14744

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	05/31/2031	01/10/2025 / SAM	12/17/2024 / SAM	V14754

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220471	07/10/2025	01/10/2025 / SAM	01/08/2025 / SAM	V14809

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220471	07/10/2025	01/10/2025 / SAM	01/08/2025 / SAM	V14814

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0217535	08/27/2025	02/27/2025 / SAM	01/21/2025 / SAM	V14842

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	021325	03/13/2025	02/14/2025 / SAM	02/14/2025 / SAM	V14872

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	021325	03/13/2025	02/14/2025 / SAM	02/14/2025 / SAM	V14873

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	021325	03/13/2025	02/14/2025 / SAM	02/14/2025 / SAM	V14874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	021325	03/13/2025	02/14/2025 / SAM	02/14/2025 / SAM	V14875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

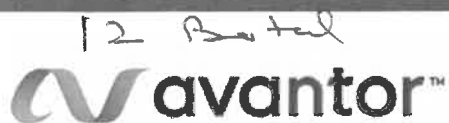
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



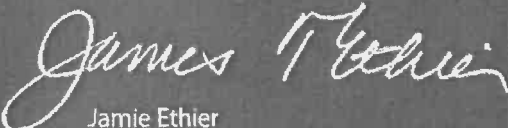
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

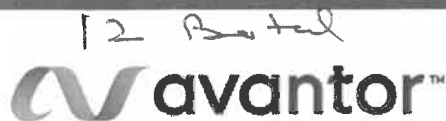
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



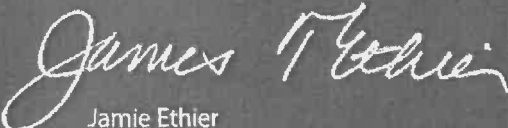
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality



5 JUL



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 021325
Description: Acrolein

Expiration Date: 031325
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Solvent(s): Lot#
Water 072324Q

✓ 14872 to
✓ 14876

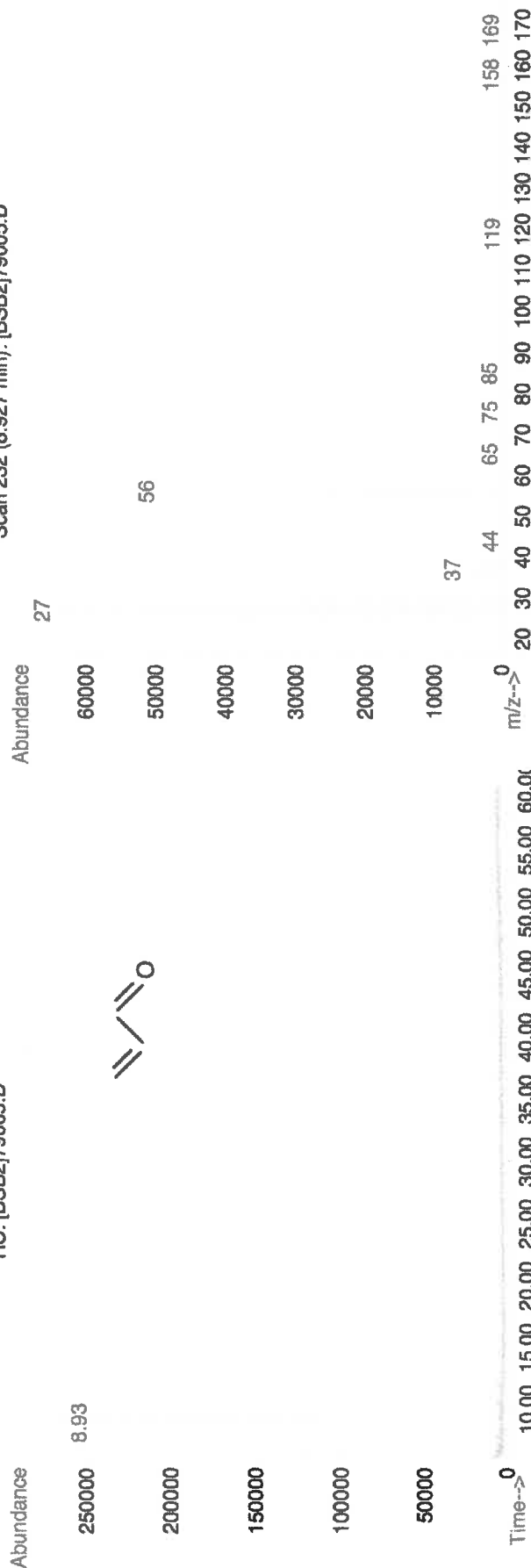
Formulated By:	Anthony Mahoney	021325	DATE
Reviewed By:	Pedro L. Rentas	021325	DATE

SDS Information			
Expanded			
Compound	Uncertainty	(Solvent Safety Info. On Attached pg.)	LDSO
	(+/-) (µg/mL)	CAS#	OSHA PEL (TWA)

1. Acrolein 5 103755V10F 5000 0.05166 0.05178 5011.8 52.6 107-02-8 0.1 ppm ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D



• The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
• Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
• Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
• All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
• Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)
GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

P271 Use in ventilated area	P302,332 If on skin, wash with soap and water	H315 Causes skin and eye irritation.	P305,351,338 If in eyes, remove contacts, rinse with water
Signal Word: DANGER			



See Certified Weight Report For Other Analytes Present At Trace Quantities.
INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice
If inhaled
If in case of skin contact
If in case of eye contact
If swallowed
Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Wash with soap and water. Consult a physician.
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire
Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products
Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions
Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up
Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water
CAS#: 7732-18-5
TWA: 500 ppm
Personal protective equipment
Respiratory protection
Handle with gloves. Gloves must be inspected prior to use.
Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)		NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water		Completely miscible		
Appearance and Odor				

CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

NA

Conditions to avoid

NA

Materials to avoid

NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat

NA

LC50 Inhalation - Rat

NA

LD50 Dermal - Guinea pig

NA

Causes skin irritation.

Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50

NA

EC50

NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

Proper shipping name: Water

IATA

Not dangerous goods

Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential users are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER. ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



5 JUL



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 021325
Description: Acrolein
Expiration Date: 031325
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water
Lot# 072324Q

✓ 14872 to
✓ 14876

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

Formulated By:	Anthony Mahoney	021325	DATE
Reviewed By:	Pedro L. Rentas	021325	DATE

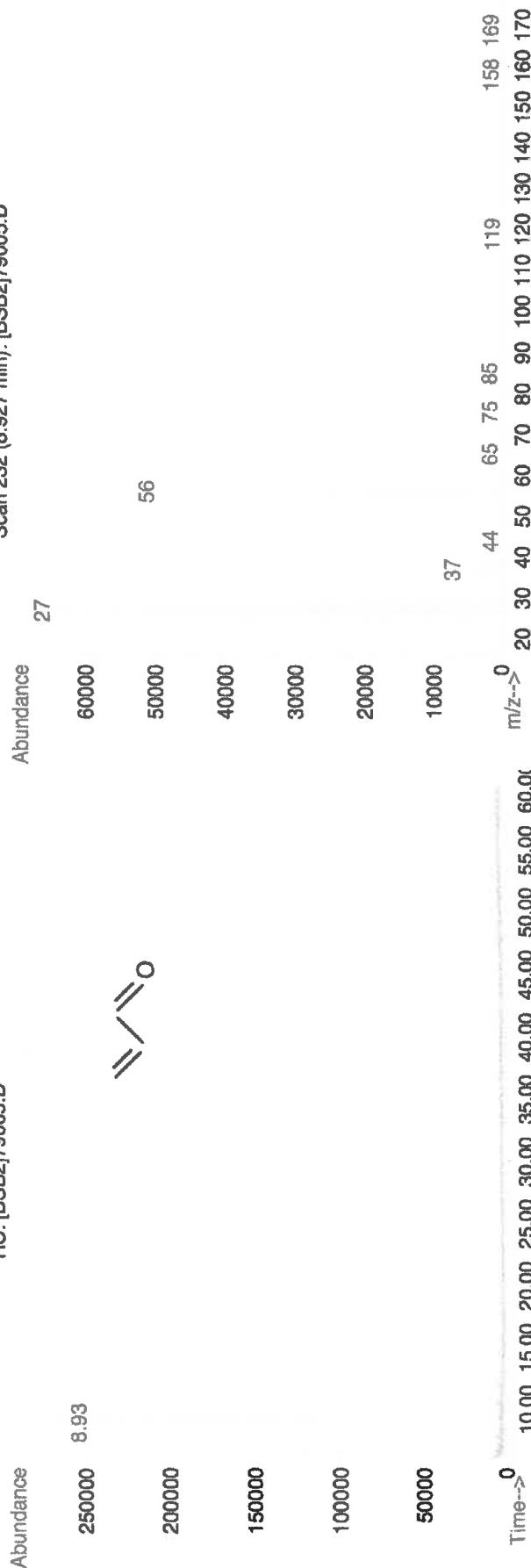
SDS Information			
Expanded			
Compound	Uncertainty	(Solvent Safety Info. On Attached pg.)	LDSO
	(+/-) (µg/mL)	CAS#	OSHA PEL (TWA)

1. Acrolein 5 103755V10F 5000 0.05166 0.05178 5011.8 52.6 107-02-8 0.1 ppm ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)
GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

P271 P302,332		Signal Word: DANGER
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)		
H315 P280 P305,351,338		
Use in ventilated area If on skin, wash with soap and water		
Causes skin and eye irritation. Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water		

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice
If inhaled
If in case of skin contact
If in case of eye contact
If swallowed
Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Wash with soap and water. Consult a physician.
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media
Protective equipment for fire
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Wear self contained breathing apparatus for fire fighting if necessary.
Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions
Environmental precautions
Clean up
Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling
Storage Conditions
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water
CAS#: 7732-18-5
TWA: 500 ppm
Personal protective equipment
Respiratory protection
Handle with gloves. Gloves must be inspected prior to use.
Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)		NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water		Completely miscible		
Appearance and Odor				

CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
NA

Conditions to avoid
NA

Materials to avoid
NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat
NA

LC50 Inhalation - Rat
NA

LD50 Dermal - Guinea pig
NA

Causes skin irritation.

Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50
NA

EC50
NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential users are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER. ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



5 J14



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

91980
021325
Acrolein

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

031325
Refrigerate (4 °C)
5000
6UTB

Solvent(s):
Water

Lot#
072324Q

✓ 14872 to
✓ 14876

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL):

10.0

5E-05 Balance Uncertainty

0.001 Flask Uncertainty

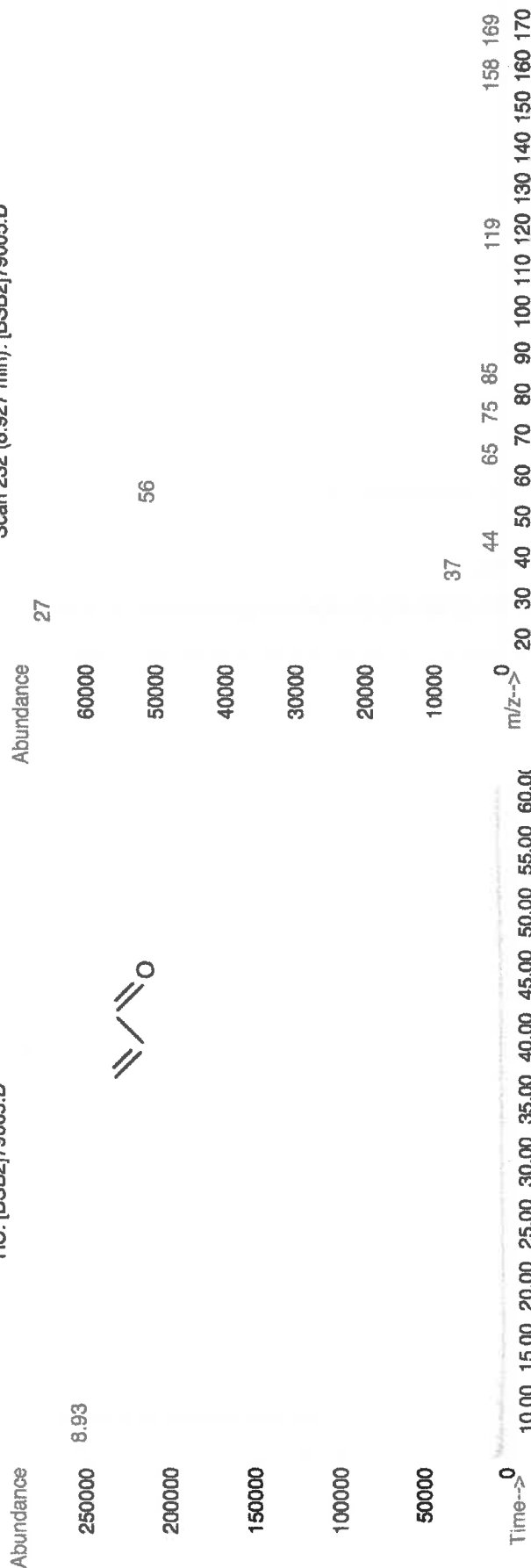
Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	CAS#	OSHA PEL (TWA)	LDSO

1. Acrolein 5 10375SV10F 5000 97 0.5 0.05166 0.05178 5011.8 52.6 107-02-8 0.1 ppm ori-rat 46mg/kg

Method: GC6MSD-1, Detector: Mass Selective Detector (Scan mode), Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C, Analyst: Pedro Rentas, NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D



• The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
• Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
• Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
• All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
• Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)
GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

P271 P302,332		Signal Word: DANGER
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)		
H315 P280 P305,351,338		
Use in ventilated area If on skin, wash with soap and water		
Causes skin and eye irritation. Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water		

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice
If inhaled
If in case of skin contact
If in case of eye contact
If swallowed

Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Wash with soap and water. Consult a physician.
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media
Protective equipment for fire
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Wear self contained breathing apparatus for fire fighting if necessary.
Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions
Environmental precautions
Clean up

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling
Storage Conditions

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water
CAS#: 7732-18-5
TWA: 500 ppm

Personal protective equipment
Respiratory protection
Handle with gloves. Gloves must be inspected prior to use.
Eye protection.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)		NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water		Completely miscible		
Appearance and Odor				

CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

NA

Conditions to avoid

NA

Materials to avoid

NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat

NA

LC50 Inhalation - Rat

NA

LD50 Dermal - Guinea pig

NA

Causes skin irritation.

Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50

NA

EC50

NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

Proper shipping name: Water

IATA

Not dangerous goods

Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential users are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER. ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM

5 J14



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 021325
Description: Acrolein

Expiration Date: 031325
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Solvent(s): Lot#
Water 072324Q

✓ 14872 to
✓ 14876

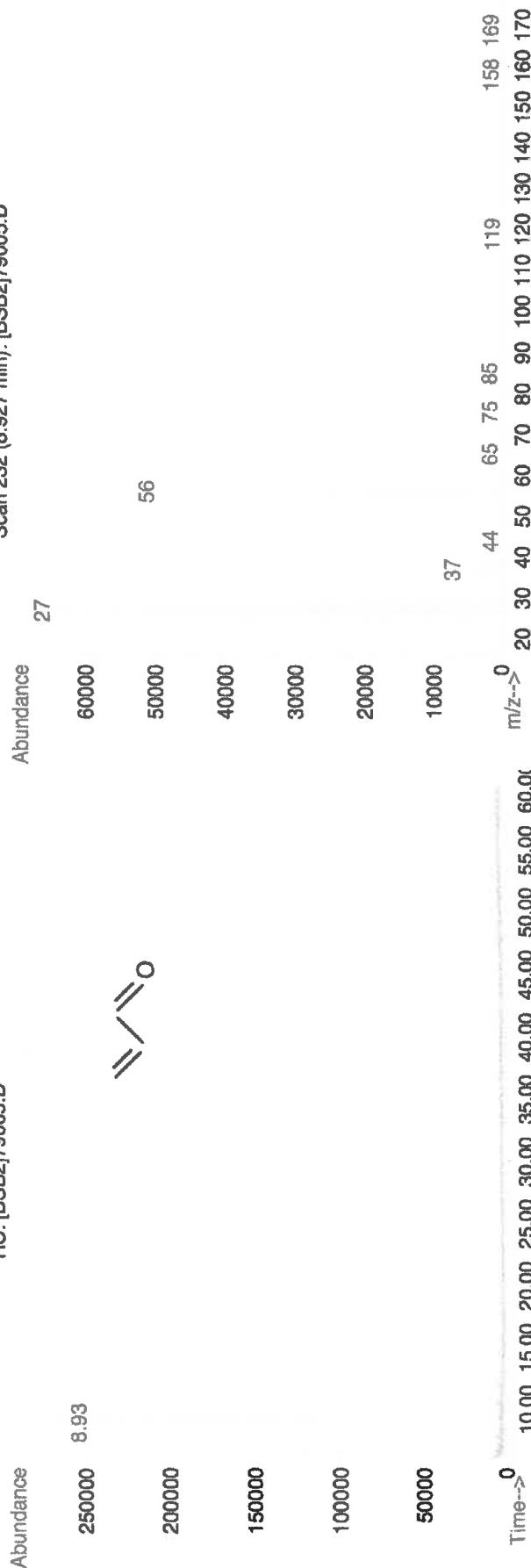
Formulated By:	Anthony Mahoney	021325	DATE
Reviewed By:	Pedro L. Rentas	021325	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (Solvent Safety Info. On Attached pg.)		
									(+/-) (µg/mL)	CAS#	OSHA PEL (TWA)

1. Acrolein 5 10375SV10F 5000 97 0.5 0.05166 0.05178 5011.8 52.6 107-02-8 0.1 ppm ori-rat 46mg/kg

Method: GC6MSD-1, Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D



• The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
• Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
• Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
• All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
• Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

P271	Use in ventilated area	GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)	H315
P302,332	If on skin, wash with soap and water		P280
		Causes skin and eye irritation.	P305,351,338
		Use gloves, eye protection/face shield	
		If in eyes, remove contacts, rinse with water	

Signal Word: DANGER



See Certified Weight Report For Other Analytes Present At Trace Quantities.
INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice
If inhaled
If in case of skin contact
If in case of eye contact
If swallowed
Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Wash with soap and water. Consult a physician.
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media
Protective equipment for fire
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Wear self contained breathing apparatus for fire fighting if necessary.
Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions
Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up
Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water
CAS#: 7732-18-5
TWA: 500 ppm
Personal protective equipment
Respiratory protection
Handle with gloves. Gloves must be inspected prior to use.
Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)		NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water		Completely miscible		
Appearance and Odor				

CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
NA

Conditions to avoid
NA

Materials to avoid
NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat
NA

LC50 Inhalation - Rat
NA

LD50 Dermal - Guinea pig
NA

Causes skin irritation.

Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50
NA

EC50
NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential users are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER. ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

CERTIFIED WEIGHT REPORT

Part Number: **95317**
Lot Number: **021624**
Description: **Universal VOA Megamix**
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

Solvent(s): **Methanol**
Lot# **EG359-USQ12**

Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty
Flask Uncertainty

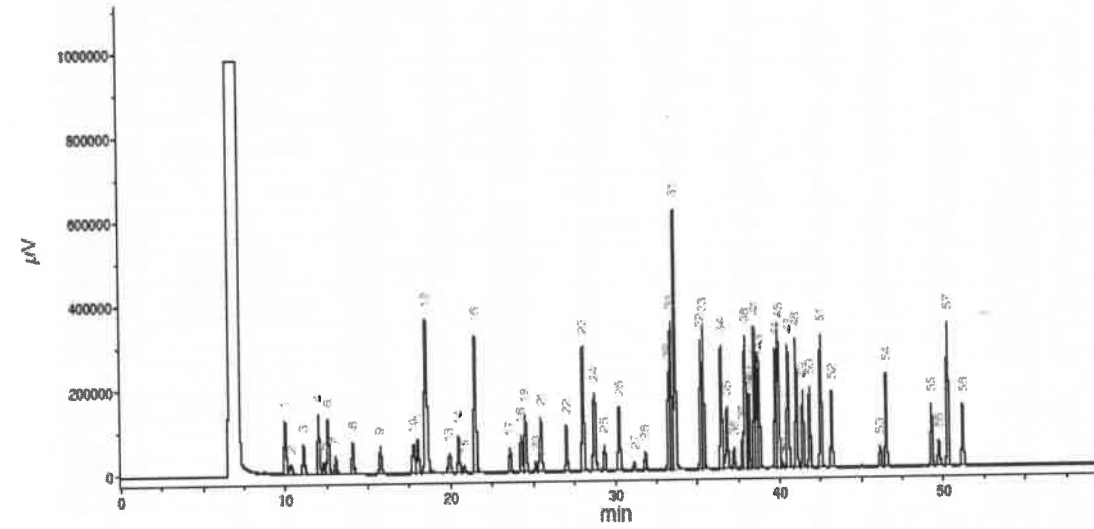
		021624
Formulated By:	Prashant Chauhan	DATE
		021624
Reviewed By:	Pedro L. Rentes	DATE

Compound	(RM#)	Lot	Di.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
	Part Number	Number	Factor	Vol. (mL)	Conc. (µg/mL)	Conc. (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	(+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102395	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg
3. Carbon disulfide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CA5000K	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06126PK	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	N/A
8. Iodomethane	(0489)	5HBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	or-rat 14800mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 70mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 1200mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8H) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Perfluorooctane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7800mg/m3/8H)	or-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 840mg/kg
19. cis-1,2-Dichloroethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.6	22.9	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 930mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-68-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-85-3	N/A	or-rat 105mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	N/A	or-rat 108mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	100 ppm	or-rat 725mg/kg
29. Tetrachloroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	1999.8	20.4	584-20-7	N/A	N/A
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
32. 1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-6	0.001 ppm	or-rat 170mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	106-93-4	20 ppm (8H)	or-rat 108mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2000.2	22.9	107-08-2	50 ppm (8H)	or-rat 870mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	78-57-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg
36. 1,1-Dichloropropane	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	un-rat 3600mg/kg
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.1	22.9	563-56-6	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-01-5	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	22.9	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H) (skin)	or-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	80 ppm (270mg/m3/8H)	or-rat 2400mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (50mg/m3/8H)	or-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4694mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	99-87-6	N/A	or-rat 4750mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
51. Styrene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-98-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	or-rat 1390mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	N/A	or-rat 5g/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-57-8	N/A	or-rat 5000mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	or-rat 2240mg/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	80 ppm (250mg/m3/8H)	or-rat 3900mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	541-73-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-50-1	78 ppm (450mg/m3/8H)	or-rat 900mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05													

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.24
11	cis-1,2-Dichloroethane	18.00
12	Methacrylonitrile/methyl acrylate/Chloroform	18.46
13	Isobutane/1,1,1-Trichloroethane	19.01
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethane	23.58
18	1,2-Dichloropropane	24.38
19	Methyl methacrylate	24.52
20	Bromochloromethane	25.13
21	Dibromomethane/2-Hitropropane	25.46
22	cis-1,3-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	35.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoforn	36.18
35	cis-1,4-Dichloro-3-butene	36.48
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.74
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection. Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC. DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



CERTIFIED WEIGHT REPORT

Part Number: **95317**
Lot Number: **021624**
Description: **Universal VOA Megamix**
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

Solvent(s): **Methanol**
Lot# **EG359-USQ12**

Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty
0.021 Flask Uncertainty

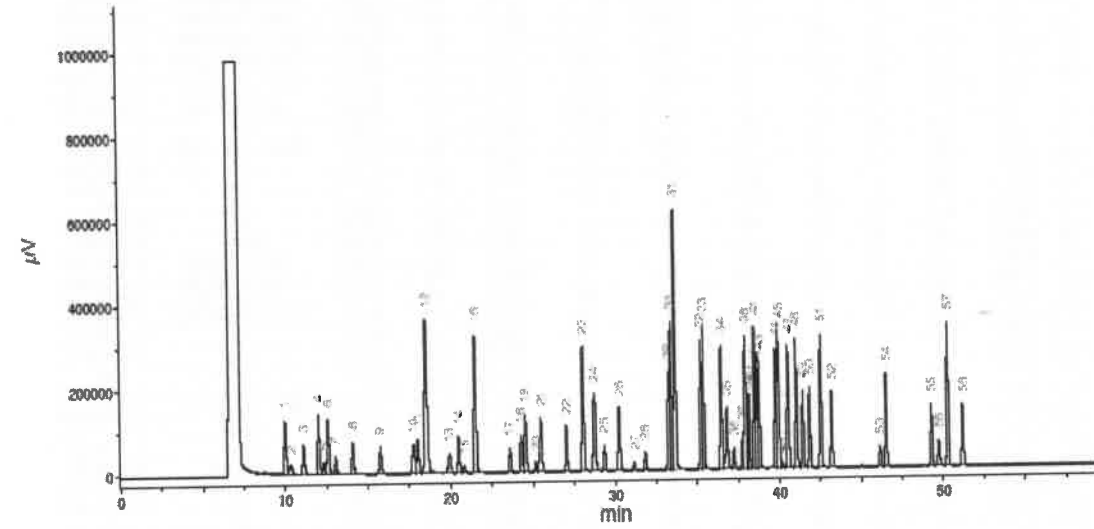
Formulated By:	<i>Prashant Chauhan</i>	021624
	Prashant Chauhan	DATE
Reviewed By:	<i>Pedro L. Rentes</i>	021624
	Pedro L. Rentes	DATE

Compound	(RM#)	Lot	Di.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
														(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)
	Part Number	Number	Factor	Vol. (mL)	Conc.(µg/mL)	Conc.(µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	(+/-) (µg/mL)			
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102395	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8581	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1198)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1478-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CA5000K	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06126PK	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	N/A
8. Iodomethane	(0489)	5HBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	or-rat 14800mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 70mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 1200mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8H) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Perfluorooctane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7800mg/m3/8H)	or-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 840mg/kg
19. cis-1,2-Dichloroethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.6	22.9	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 930mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-85-3	N/A	or-rat 105mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	or-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29. Tetrachloroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-6	0.001 ppm	or-rat 170mg/kg
32. 1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	or-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-08-2	50 ppm (8H)	or-rat 870mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-57-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	un-rat 3600mg/kg
36. 1,1-Dichloropropane	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-56-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H) (skin)	or-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	80 ppm (270mg/m3/8H)	or-rat 2400mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (50mg/m3/8H)	or-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4694mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	99-87-6	N/A	or-rat 4750mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
51. Styrene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-98-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	87-61-6	N/A	or-rat 1390mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	N/A	or-rat 5g/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-67-8	N/A	or-rat 5000mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	or-rat 2240mg/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	80 ppm (250mg/m3/8H)	or-rat 3900mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	541-73-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	96-46-7		

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.24
11	cis-1,2-Dichloroethane	18.00
12	Methacrylonitrile/methyl acrylate/Chloroform	18.46
13	Isobutane/1,1,1-Trichloroethane	19.01
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethane	23.58
18	1,2-Dichloropropane	24.38
19	Methyl methacrylate	24.52
20	Bromochloromethane	25.13
21	Dibromomethane/2-Hitroprene	25.46
22	cis-1,3-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	35.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoforn	36.18
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.74
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection. Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC. DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



Dec 09/17/24

CERTIFIED WEIGHT REPORT

Part Number:

91980

Lot Number:

091424

Description:

Acrolein

Solvent(s):

Water

Lot#

072324Q

Expiration Date:

101424

Recommended Storage:

Refrigerate (4 °C)

Nominal Concentration (µg/mL):

5000

NIST Test ID#:

6UTB

Weight(s) shown below were combined and diluted to (mL):

10.0

5E-05 Balance Uncertainty

0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50

1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC/MSD-1, Detector: Mass Selective Detector (Scan mode). Columns: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 0min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas, NOTE: Due to the instability of acrolein in solution, all solutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D

Abundance

27

250000

8.93

200000

C=CC=O

50000

56

150000

40000

30000

20000

50000

10000

37

Time-->

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00

m/z-->

0

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

44 65 75 85 119 158 169

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
 * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
 * Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
 * All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM



Dec 09/17/24

CERTIFIED WEIGHT REPORT

Part Number:

91980

Lot Number:

091424

Description:

Acrolein

Solvent(s):

Water

Lot#

072324Q

Expiration Date:

101424

Recommended Storage:

Refrigerate (4 °C)

Nominal Concentration (µg/mL):

5000

NIST Test ID#:

6UTB

5E-05 Balance Uncertainty

0.001 Flask Uncertainty

10.0

Weight(s) shown below were combined and diluted to (mL):

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50

1. Acrolein	5	103755V10F	5000	97	0.5	0.05186	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC/MSD-1, Detector: Mass Selective Detector (Scan mode). Columns: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 0min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas, NOTE: Due to the instability of acrolein in solution, all solutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D

Abundance

27

250000

8.93

200000

C=CC=O

50000

56

150000

40000

30000

20000

10000

37

Time-->

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00

m/z-->

0

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

119

158 169

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
 * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
 * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
 * All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

95318
120524
2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

120527
Refrigerate (4 °C)
10000
6UTB

Weight(s) shown below were combined and diluted to (mL):

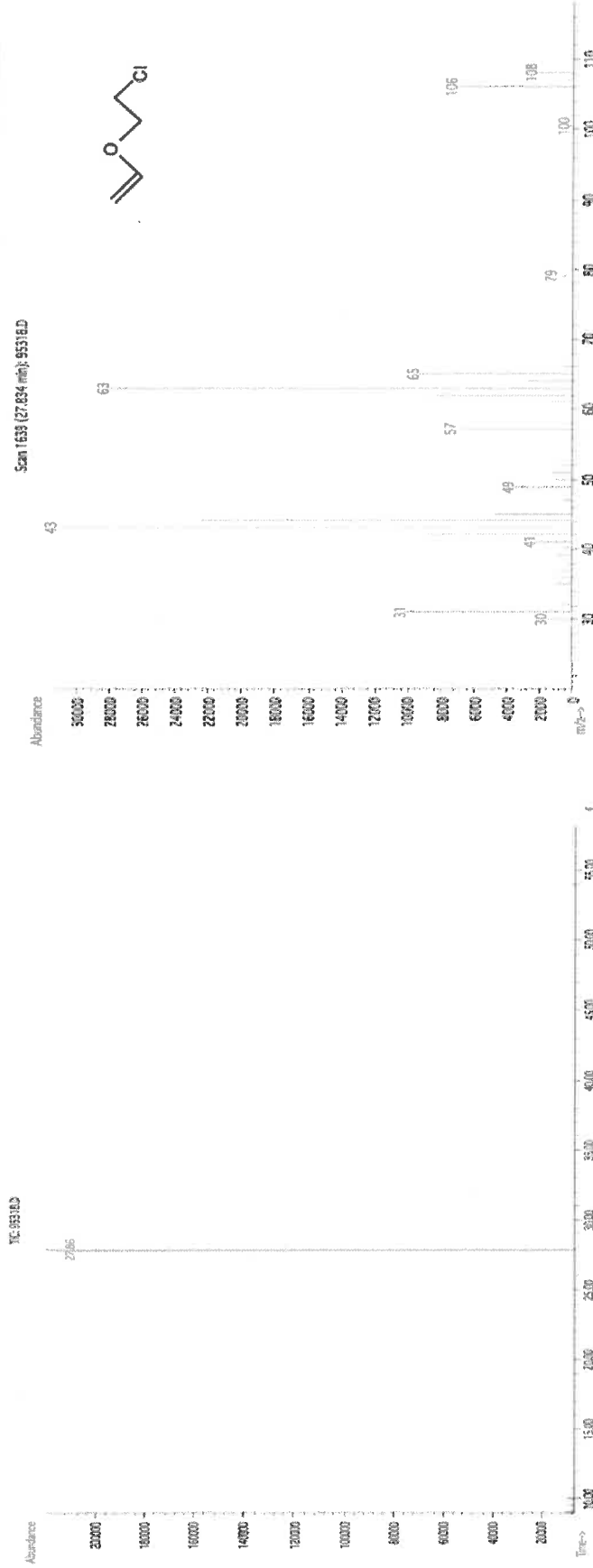
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524	DATE
Reviewed By:	Pedro L. Rentas	120524	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50

1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp. = 220°C. Analyst: Candice Warren.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	67-56-1	TWA 200 ppm
Skin notation			TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.			
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.	Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.			

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



See 1216124
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date:
Recommended Storage:
Refrigerate (4 °C)
Nominal Concentration (µg/mL):
10000
NIST Test ID#:
6UTB

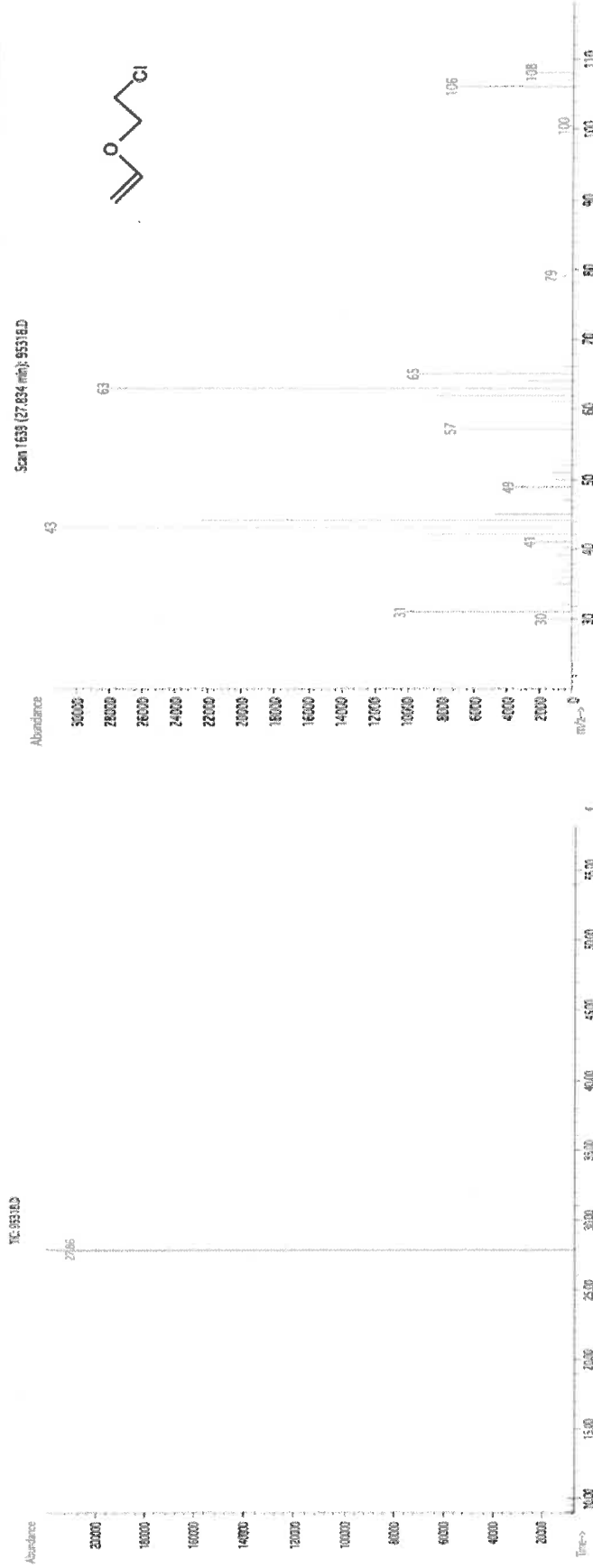
✓ 14630 to
✓ 14649

Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8 N/A or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp. = 220°C. Analyst: Candice Warren.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rosotto Dr. Hamden CT. 06514	Emergency Telephone International Date Prepared/Revised	1-352-323-3500 January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#	% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1
		> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm		
Skin notation	TWA 200 ppm		
Potential for skin absorption, ingestion and inhalation.			
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.	Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.			

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Dec 12/6/24
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

✓ 14630 to
✓ 14649

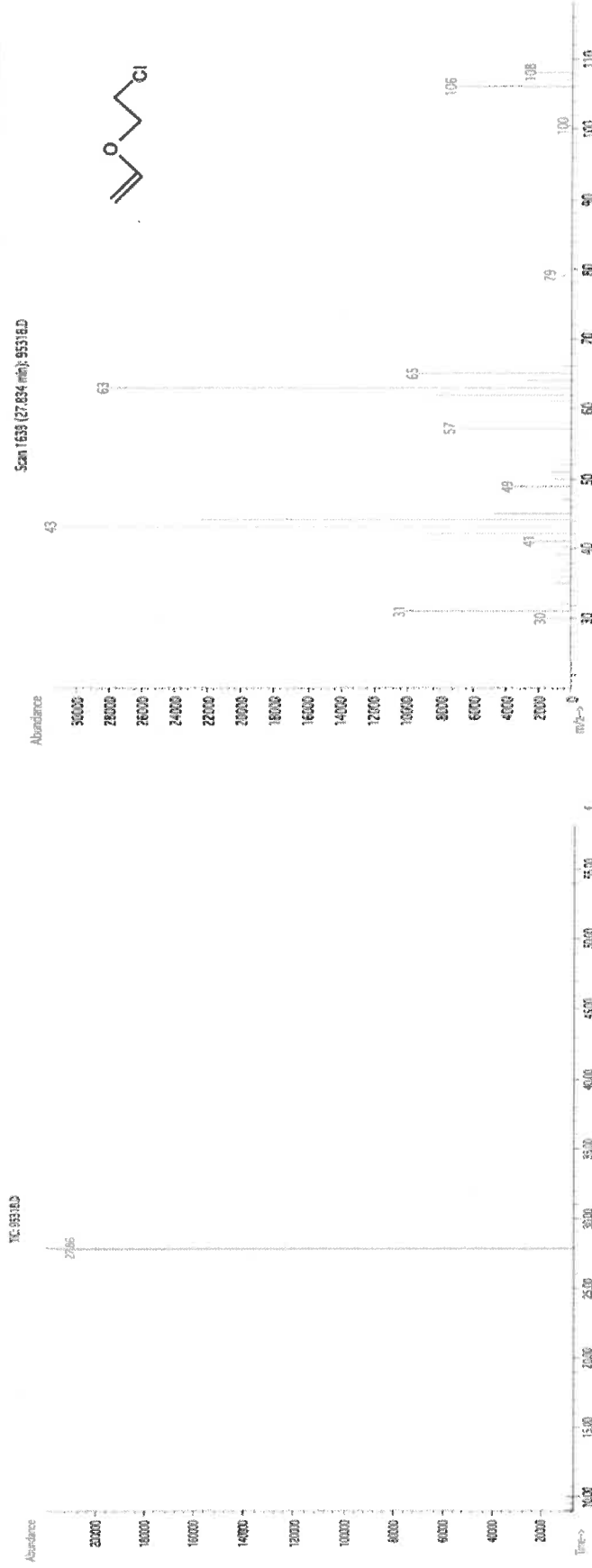
Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50

1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp. = 220°C. Analyst: Candice Warren.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	67-56-1	TWA 200 ppm
Skin notation			TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.			
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.	Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.			

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Dec 12/16/24
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

✓ 14630 to
✓ 14649

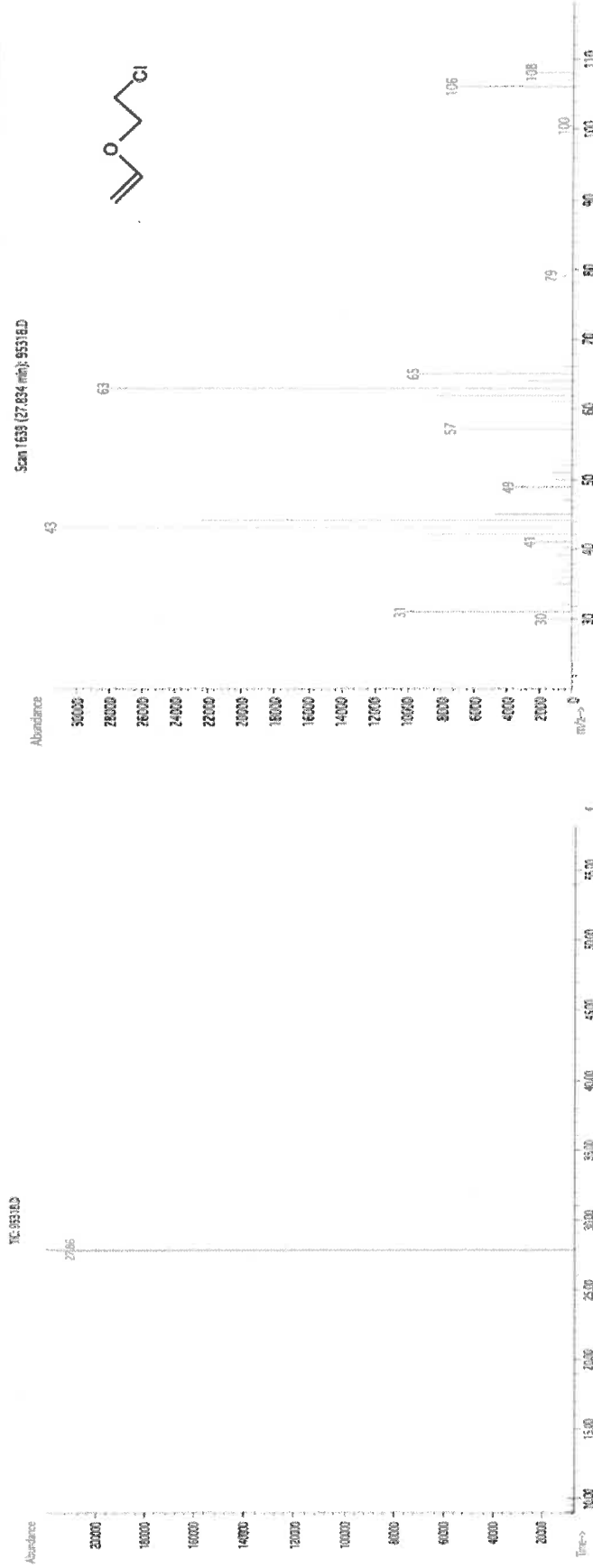
Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50

1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp. = 220°C. Analyst: Candice Warren.



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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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Signal Word: DANGER

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Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

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LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

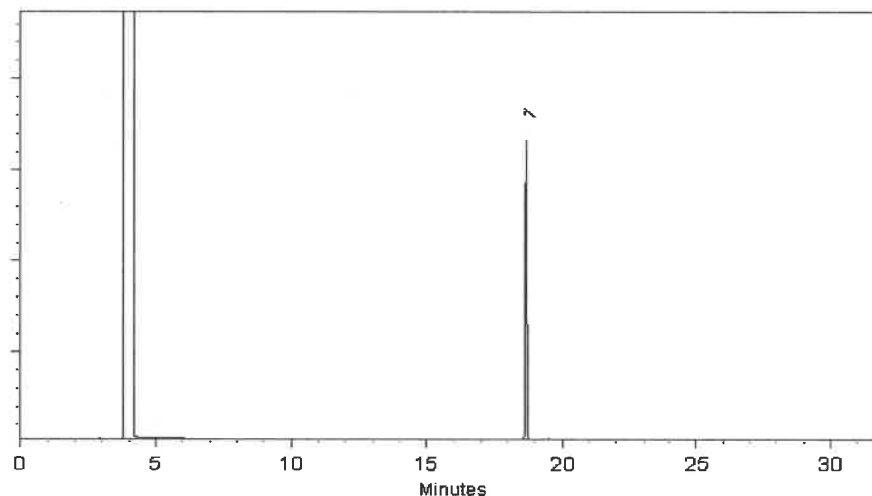
FID

Split Vent:

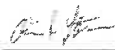
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022

Balance Serial # B251644995


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

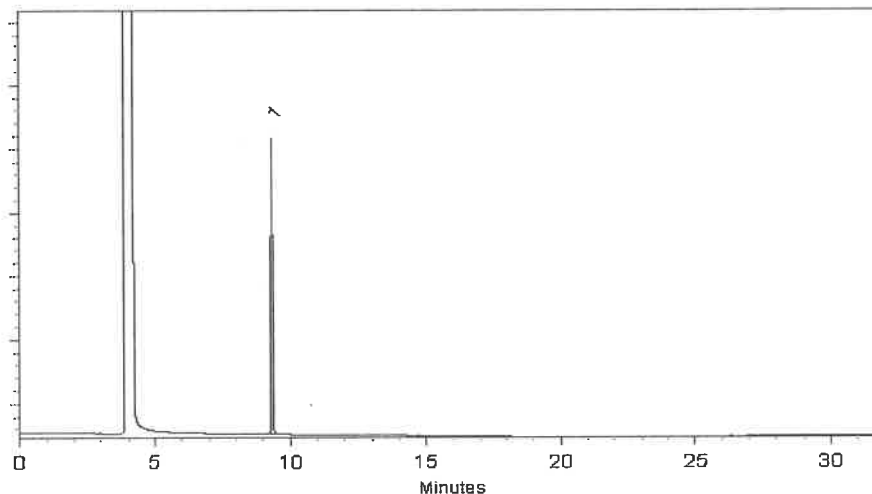
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

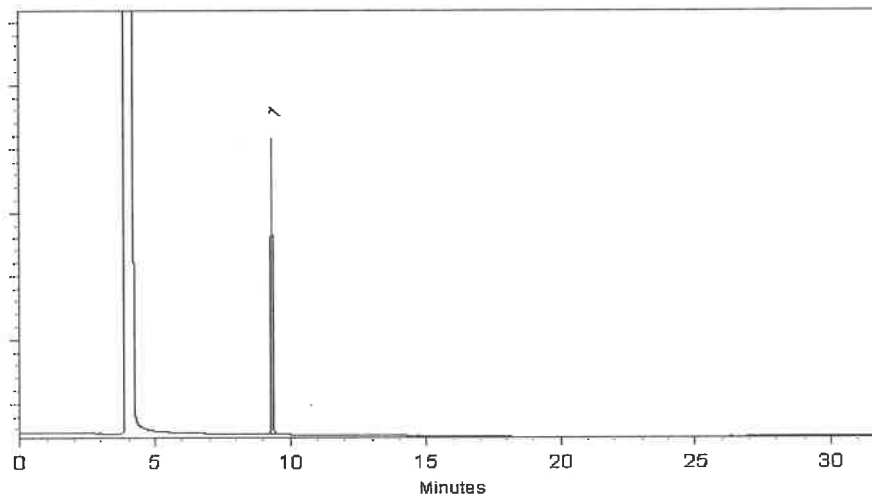
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
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Certificate #FM 80397

General Certified Reference Material Notes

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Manufacturing Notes:

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Handling Notes:

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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Catalog No. : 30225 **Lot No.:** A0193071
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

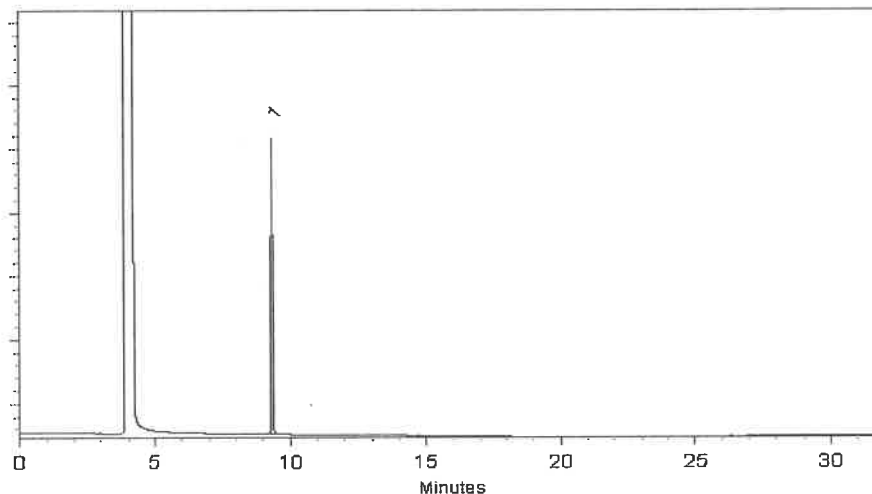
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Manufacturing Notes:

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Handling Notes:

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Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

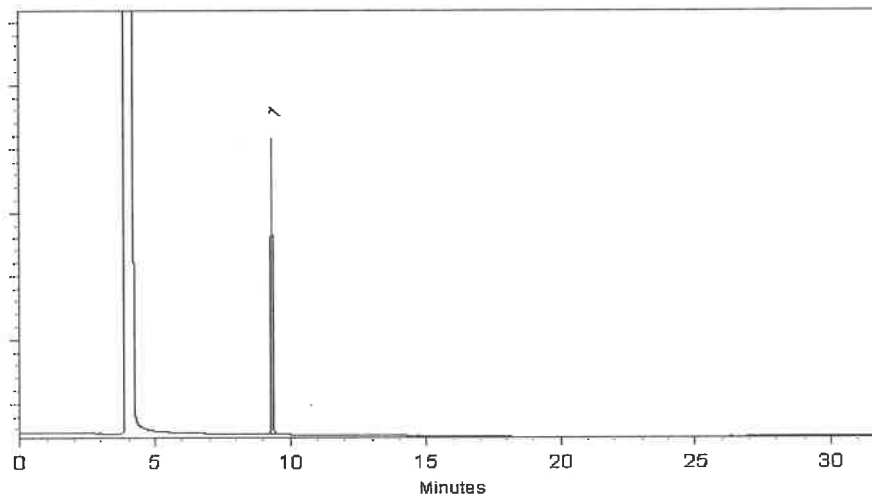
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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CERTIFIED REFERENCE MATERIAL

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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0196865

Description : Custom 8260A/B Surrogate Mix
Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-32845	99%	25,036.0 µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0 µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0 µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0 µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023

Balance: 1127510105

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix
8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

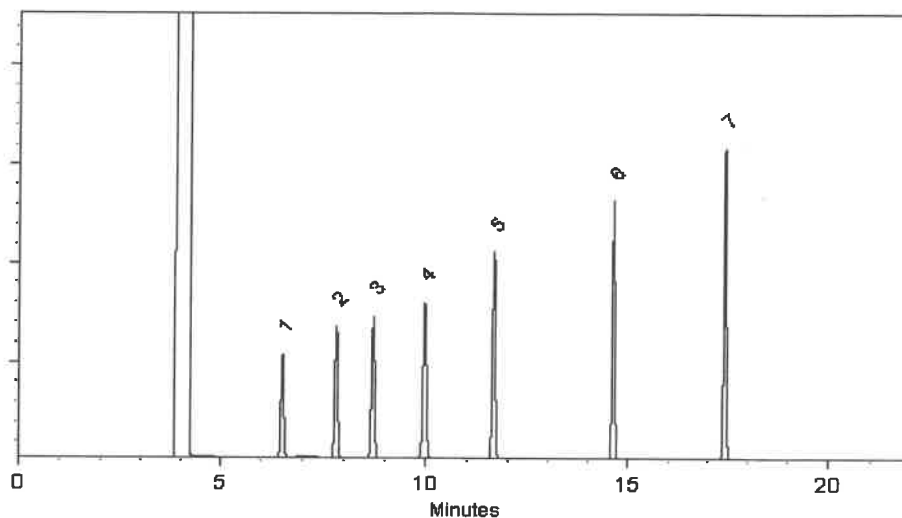
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024

Balance Serial # B707717271

Dillon Murphy
Dillon Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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chromatographic plus



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Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix
8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

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Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

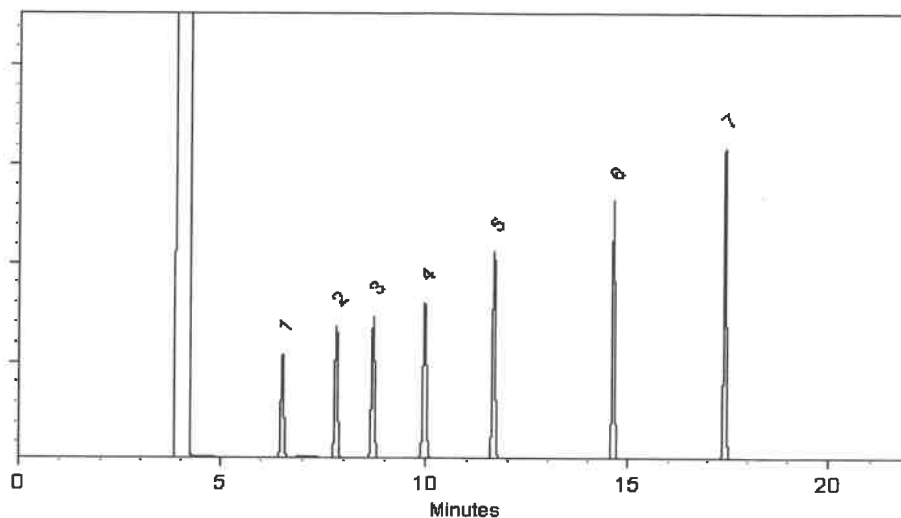
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024

Balance Serial # B707717271

Dillon Murphy
Dillon Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



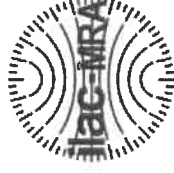
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 555581 **Lot No.:** A0210184

Description: Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size: 2 mL **Pkg Amt:** > 1 mL

Expiration Date: April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024

Balance: 11275.10105



Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

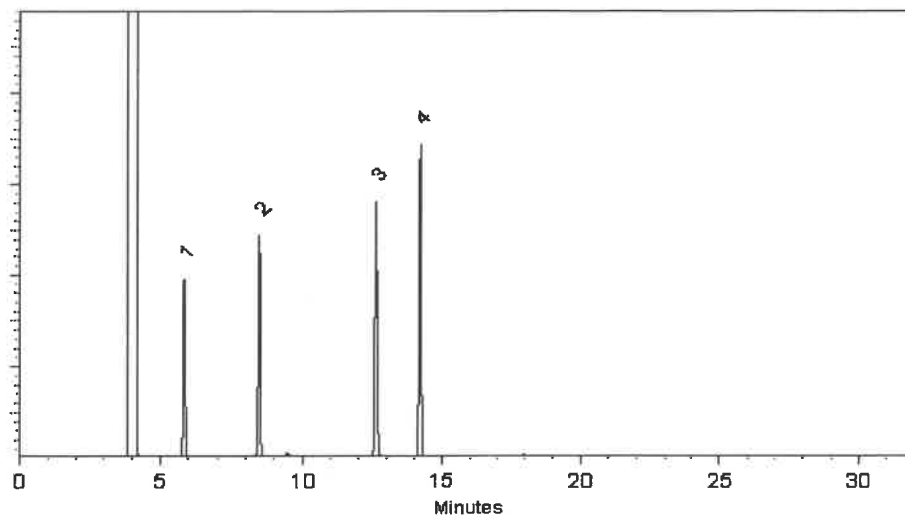
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

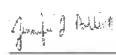


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

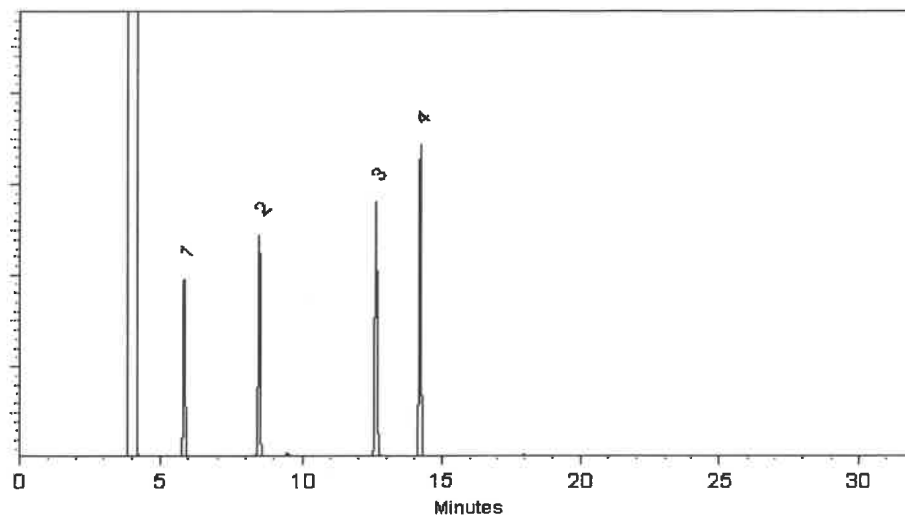
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

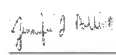


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

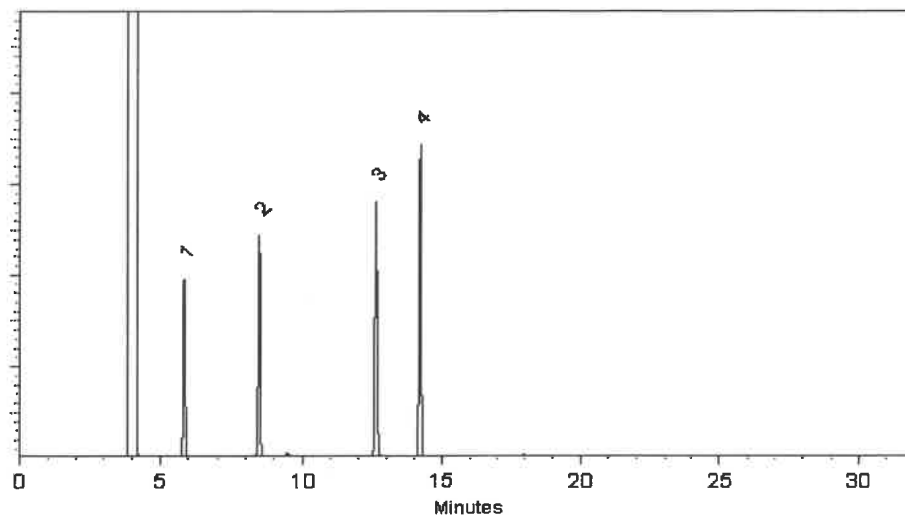
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

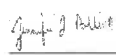


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

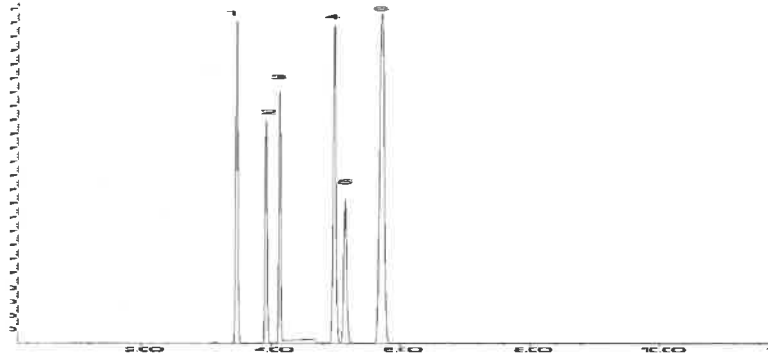
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.



Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271



Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

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Rec 12/17/24
CERTIFIED REFERENCE MATERIAL

30 ml
Certificate of Analysis
chromatographic plus

V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2031 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

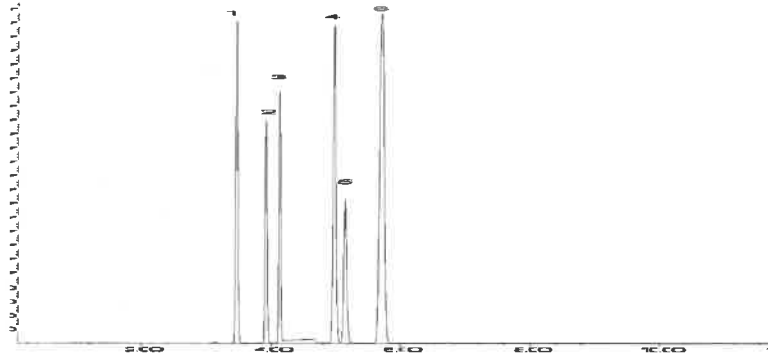
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.



Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271



Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

✓ 14842 to 14846



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535
Description : tert-Butanol Standard
tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : October 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

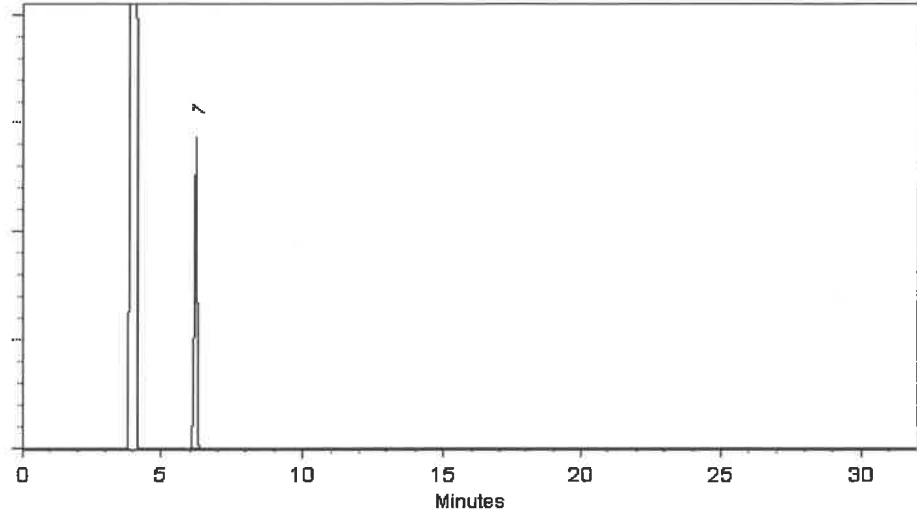
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

A. O. E.
Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024

Balance Serial # B251644995

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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2014 Dec 01/08/21
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

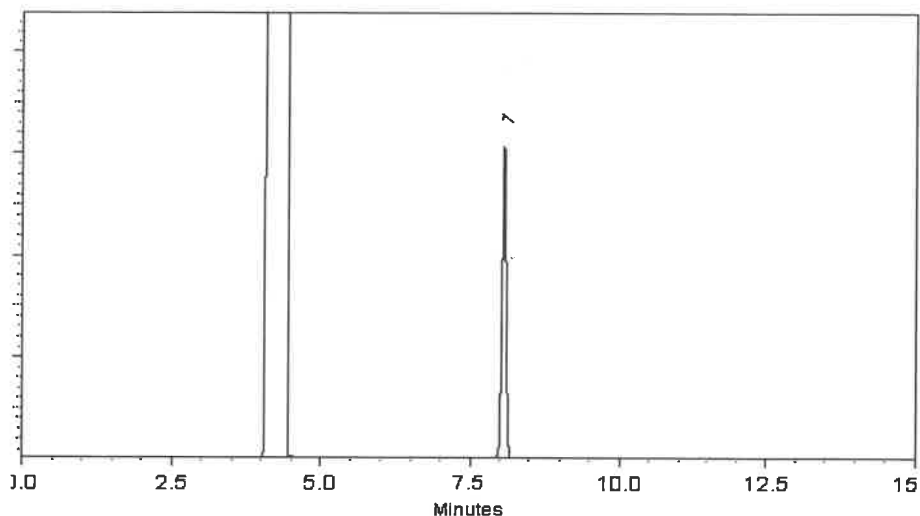
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By: Jennifer Pollock at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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Handling Notes:

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2014 Dec 01/08/21
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

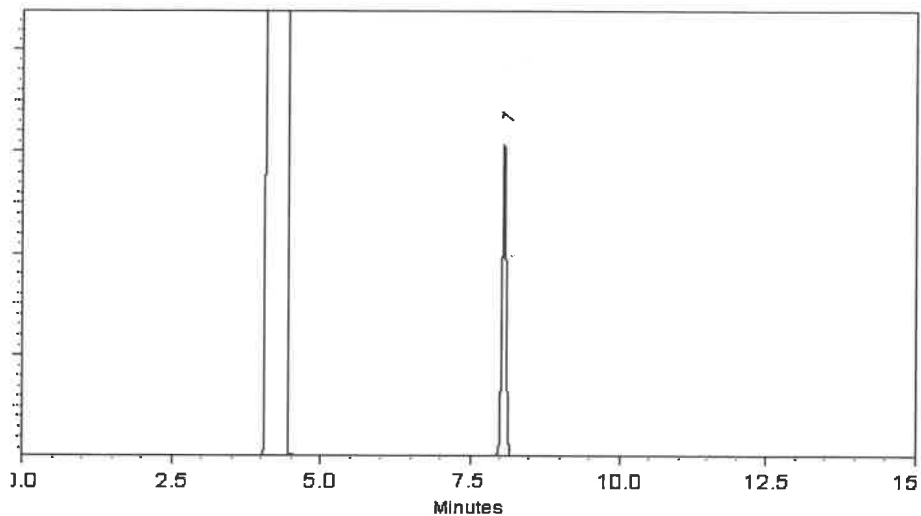
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pollock at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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Handling Notes:

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Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (µeq/g)	≤ 0.3	0.2
Titration Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Gannett Fleming
ADDRESS: 1010 Adams Ave
CITY: Audubon STATE: PA ZIP: 19405
ATTENTION: Joe Krupansky
PHONE: 610-301-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak replacement of SB
PROJECT NO: 9500000819 LOCATION: Kearny NJ
PROJECT MANAGER: Joe Krupansky
e-mail: JAKR@BEMEX.COM
PHONE: 610-301-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: Alliance PO#:
ADDRESS: 284 Sheffield St
CITY: Mountainside STATE: NJ ZIP: 07093
ATTENTION: Samantha Peashu PHONE: 908-788-3148

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☒ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT BEM EXD

1. PCBs
2. TAN Metals
3. TCL-VOC+10
4. Hex Chromium
5. TCL-SVOCs-BNM-20
6. EPM
7. PCRA
8. TCLP
9.

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	ENV-101-SB01	S		X	3/4/25	910	9	X	X	X	X	X	X	X	X		
2.	ENV-101-SB02	S				920	8	X	X	X	X	X	X	X	X		
3.	ENV-102-SB01	S				1005	9	X	X	X	X	X	X	X	X		
4.	ENV-102-SB02	S				1025	9	X	X	X	X	X	X	X	X		
5.	ENV-102-GW01	GW				1045	8	X	X	X	X	X	X				
6.	ENV-104-SB01	S				1200	9	X	X	X	X	X	X	X	X		
7.	ENV-104-SB02	S				1210	9	X	X	X	X	X	X	X	X		
8.	ENV-104-GW01	GW		V		1230	8	X	X	X	X	X	X				
9.	TB03042025	W				N/A	2			X							
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME: 142	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.7 °C
1. [Signature]	3/4/25	1. [Signature]	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2.		2.	
RELINQUISHED BY SAMPLER:	DATE/TIME: 1527	RECEIVED BY:	
3. [Signature]	3-4-25	3.	

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete

☐ YES ☐ NO

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1488	PORT06	Order Date : 3/4/2025 3:39:00 PM	Project Mgr :
Client Name : Portal Partners Tri-Venture		Project Name : Amtrak Sawtooth Bridges 2	Report Type : NJ Reduced
Client Contact : Joseph Krupansky		Receive DateTime : 3/4/2025 3:27:00 PM	EDD Type : EXCEL NJCLEANUP
Invoice Name : Portal Partners Tri-Venture		Purchase Order :	Hard Copy Date :
Invoice Contact : Joseph Krupansky			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1488-01	ENV-101-SB01	Solid	03/04/2025	09:10					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1488-03	ENV-101-SB02	Solid	03/04/2025	09:20					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1488-05	ENV-102-SB01	Solid	03/04/2025	10:05					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1488-07	ENV-102-SB02	Solid	03/04/2025	10:25					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1488-09	ENV-104-SB01	Solid	03/04/2025	12:00					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1488-11	ENV-104-SB02	Solid	03/04/2025	12:10					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1488-13	ENV-102-GW01	Water	03/04/2025	10:45					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q1488-14	ENV-104-GW01	Water	03/04/2025	12:30					

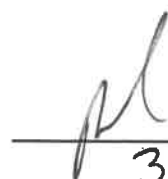
LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1488	PORT06	Order Date : 3/4/2025 3:39:00 PM	Project Mgr :
Client Name : Portal Partners Tri-Venture		Project Name : Amtrak Sawtooth Bridges 2	Report Type : NJ Reduced
Client Contact : Joseph Krupansky		Receive DateTime : 3/4/2025 3:27:00 PM	EDD Type : EXCEL NJCLEANUP
Invoice Name : Portal Partners Tri-Venture		Purchase Order :	Hard Copy Date :
Invoice Contact : Joseph Krupansky			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1488-15	TB03042025	Water	03/04/2025	00:00	VOC-TCLVOA-10		8260-Low	10 Bus. Days	
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	

Relinquished By: 

Date / Time : 3-4-25 1615

Received By: 

Date / Time : 3-4-25 16:15

Storage Area : VOA Refridgerator Room