

DATA REPORTING QUALIFIERS- ORGANIC

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

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

LAB CHRONICLE

OrderID:	Q1576	OrderDate:	3/14/2025 11:28:00 AM
Client:	G Environmental	Project:	Ave L
Contact:	Gary Landis	Location:	I31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1576-01	MW14	Water	VOC-TCLVOA-10	8260-Low	03/12/25		03/18/25	03/14/25

Hit Summary Sheet
SW-846

SDG No.: Q1576
Client: G Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	MW14							
Q1576-01	MW14	Water	Acetone	3.80	J	1.50	5.00	ug/L
Q1576-01	MW14	Water	1,1-Dichloroethane	0.79	J	0.23	1.00	ug/L
Q1576-01	MW14	Water	Trichloroethene	0.92	J	0.090	1.00	ug/L
			Total Voc :			5.51		
Q1576-01	MW14	Water	Diethyl Ether	* 1.50	J	0.31	1.00	ug/L
			Total Tics :			1.50		
			Total Concentration:			7.01		



QC SUMMARY

Surrogate Summary

SDG No.: **Q1576**

Client: **G Environmental**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1576-01	MW14	1,2-Dichloroethane-d4	50	57.2	114	70 (74)	130 (125)
		Dibromofluoromethane	50	51.8	104	70 (75)	130 (124)
		Toluene-d8	50	51.5	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	55.7	111	70 (77)	130 (121)
VX0318WBL01	VX0318WBL01	1,2-Dichloroethane-d4	50	56.3	113	70 (74)	130 (125)
		Dibromofluoromethane	50	54.0	108	70 (75)	130 (124)
		Toluene-d8	50	52.3	105	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.2	104	70 (77)	130 (121)
VX0318WBS01	VX0318WBS01	1,2-Dichloroethane-d4	50	53.2	106	70 (74)	130 (125)
		Dibromofluoromethane	50	52.9	106	70 (75)	130 (124)
		Toluene-d8	50	51.2	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.1	108	70 (77)	130 (121)
VX0318WBSD0	VX0318WBSD01	1,2-Dichloroethane-d4	50	54.3	109	70 (74)	130 (125)
		Dibromofluoromethane	50	52.5	105	70 (75)	130 (124)
		Toluene-d8	50	51.0	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.4	109	70 (77)	130 (121)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1576

Client: G Environmental

Analytical Method: SW8260-Low

Datafile : VX045315.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0318WBS01	Dichlorodifluoromethane	20	18.6	ug/L	93			40 (69)	160 (116)	
	Chloromethane	20	16.7	ug/L	84			40 (65)	160 (116)	
	Vinyl chloride	20	15.9	ug/L	79			70 (65)	130 (117)	
	Bromomethane	20	18.2	ug/L	91			40 (58)	160 (125)	
	Chloroethane	20	20.3	ug/L	102			40 (56)	160 (128)	
	Trichlorofluoromethane	20	18.6	ug/L	93			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	20.8	ug/L	104			70 (80)	130 (112)	
	1,1-Dichloroethene	20	18.5	ug/L	93			70 (74)	130 (110)	
	Acetone	100	99.4	ug/L	99			40 (60)	160 (125)	
	Carbon disulfide	20	14.6	ug/L	73			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	19.8	ug/L	99			70 (78)	130 (114)	
	Methyl Acetate	20	24.5	ug/L	123			70 (67)	130 (125)	
	Methylene Chloride	20	18.8	ug/L	94			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	18.7	ug/L	94			70 (75)	130 (108)	
	1,1-Dichloroethane	20	19.7	ug/L	99			70 (78)	130 (112)	
	Cyclohexane	20	18.6	ug/L	93			70 (75)	130 (110)	
	2-Butanone	100	100	ug/L	100			40 (65)	160 (122)	
	Carbon Tetrachloride	20	19.7	ug/L	99			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	19.6	ug/L	98			70 (77)	130 (110)	
	Bromochloromethane	20	21.8	ug/L	109			70 (70)	130 (124)	
	Chloroform	20	20.5	ug/L	103			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	20.0	ug/L	100			70 (80)	130 (108)	
	Methylcyclohexane	20	19.8	ug/L	99			70 (72)	130 (115)	
	Benzene	20	19.7	ug/L	99			70 (82)	130 (109)	
	1,2-Dichloroethane	20	21.3	ug/L	106			70 (80)	130 (115)	
	Trichloroethene	20	18.9	ug/L	95			70 (77)	130 (113)	
	1,2-Dichloropropane	20	19.8	ug/L	99			70 (83)	130 (111)	
	Bromodichloromethane	20	20.6	ug/L	103			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	110	ug/L	110			40 (74)	160 (118)	
	Toluene	20	20.5	ug/L	103			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	20.4	ug/L	102			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	21.2	ug/L	106			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	20.5	ug/L	103			70 (83)	130 (112)	
	2-Hexanone	100	110	ug/L	110			40 (73)	160 (117)	
	Dibromochloromethane	20	20.3	ug/L	102			70 (82)	130 (110)	
	1,2-Dibromoethane	20	20.4	ug/L	102			70 (81)	130 (110)	
	Tetrachloroethene	20	20.0	ug/L	100			70 (67)	130 (123)	
	Chlorobenzene	20	19.9	ug/L	100			70 (82)	130 (109)	
	Ethyl Benzene	20	20.3	ug/L	102			70 (83)	130 (109)	
	m/p-Xylenes	40	41.2	ug/L	103			70 (82)	130 (110)	
	o-Xylene	20	20.1	ug/L	101			70 (83)	130 (109)	
	Styrene	20	20.9	ug/L	104			70 (80)	130 (111)	
	Bromoform	20	20.0	ug/L	100			70 (79)	130 (109)	
	Isopropylbenzene	20	21.0	ug/L	105			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	20.2	ug/L	101			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	20.2	ug/L	101			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	19.9	ug/L	100			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	20.5	ug/L	103			70 (82)	130 (109)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1576

Client: G Environmental

Analytical Method: SW8260-Low

Datafile : VX045315.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0318WBS01	1,2-Dibromo-3-Chloropropane	20	20.1	ug/L	101			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	19.7	ug/L	99			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	19.7	ug/L	99			70 (76)	130 (114)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1576

Client: G Environmental

Analytical Method: SW8260-Low

Datafile : VX045316.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0318WBSD01	Dichlorodifluoromethane	20	18.7	ug/L	94	1		40 (69)	160 (116)	20 (20)
	Chloromethane	20	16.8	ug/L	84	0		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	15.8	ug/L	79	0		70 (65)	130 (117)	20 (20)
	Bromomethane	20	18.4	ug/L	92	1		40 (58)	160 (125)	20 (20)
	Chloroethane	20	19.8	ug/L	99	3		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	17.9	ug/L	90	3		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	21.2	ug/L	106	2		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	18.4	ug/L	92	1		70 (74)	130 (110)	20 (20)
	Acetone	100	100	ug/L	100	1		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	14.8	ug/L	74	1		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	20.5	ug/L	103	4		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	25.7	ug/L	129	5		70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	19.1	ug/L	96	2		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	18.4	ug/L	92	2		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	19.7	ug/L	99	0		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	18.7	ug/L	94	1		70 (75)	130 (110)	20 (20)
	2-Butanone	100	110	ug/L	110	10		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	19.7	ug/L	99	0		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	19.5	ug/L	98	0		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	22.4	ug/L	112	3		70 (70)	130 (124)	20 (20)
	Chloroform	20	20.1	ug/L	101	2		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	19.8	ug/L	99	1		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	20.5	ug/L	103	4		70 (72)	130 (115)	20 (20)
	Benzene	20	19.7	ug/L	99	0		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	21.6	ug/L	108	2		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	19.0	ug/L	95	0		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	20.5	ug/L	103	4		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	20.4	ug/L	102	1		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	110	ug/L	110	0		40 (74)	160 (118)	20 (20)
	Toluene	20	20.4	ug/L	102	1		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	20.5	ug/L	103	1		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	21.6	ug/L	108	2		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	21.3	ug/L	106	3		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	110	ug/L	110	0		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	21.4	ug/L	107	5		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	21.3	ug/L	106	4		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	19.6	ug/L	98	2		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	20.0	ug/L	100	0		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	20.2	ug/L	101	1		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	41.3	ug/L	103	0		70 (82)	130 (110)	20 (20)
	o-Xylene	20	20.3	ug/L	102	1		70 (83)	130 (109)	20 (20)
	Styrene	20	21.2	ug/L	106	2		70 (80)	130 (111)	20 (20)
	Bromoform	20	20.4	ug/L	102	2		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	20.7	ug/L	104	1		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	20.8	ug/L	104	3		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	20.8	ug/L	104	3		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	20.3	ug/L	102	2		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	20.9	ug/L	104	1		70 (82)	130 (109)	20 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1576
Client: G Environmental
Analytical Method: SW8260-Low **Datafile :** VX045316.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0318WBSD01	1,2-Dibromo-3-Chloropropane	20	21.1	ug/L	106	5		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	20.1	ug/L	101	2		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	20.1	ug/L	101	2		70 (76)	130 (114)	20 (20)

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0318WBL01

Lab Name: CHEMTECH

Contract: GENV01

Lab Code: CHEM Case No.: Q1576

SAS No.: Q1576 SDG NO.: Q1576

Lab File ID: VX045314.D

Lab Sample ID: VX0318WBL01

Date Analyzed: 03/18/2025

Time Analyzed: 10:53

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
VX0318WBS01	VX0318WBS01	VX045315.D	03/18/2025
VX0318WBSD01	VX0318WBSD01	VX045316.D	03/18/2025
MW14	Q1576-01	VX045334.D	03/18/2025

COMMENTS: _____



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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GENV01
Lab Code: CHEM Case No.: Q1576 SAS No.: Q1576 SDG NO.: Q1576
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: GENV01
Lab Code: CHEM Case No.: Q1576 SAS No.: Q1576 SDG NO.: Q1576
Lab File ID: VX045311.D BFB Injection Date: 03/18/2025
Instrument ID: MSVOA_X BFB Injection Time: 09:33
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	22.5
75	30.0 - 60.0% of mass 95	54.6
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	1 (1.4) 1
174	50.0 - 100.0% of mass 95	70.3
175	5.0 - 9.0% of mass 174	5.5 (7.9) 1
176	95.0 - 101.0% of mass 174	67.9 (96.5) 1
177	5.0 - 9.0% of mass 176	4.4 (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	VX045312.D	03/18/2025	10:02
VX0318WBL01	VX0318WBL01	VX045314.D	03/18/2025	10:53
VX0318WBS01	VX0318WBS01	VX045315.D	03/18/2025	11:16
VX0318WBSD01	VX0318WBSD01	VX045316.D	03/18/2025	11:43
MW14	Q1576-01	VX045334.D	03/18/2025	18:43

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GENV01
 Lab Code: CHEM Case No.: Q1576 SAS No.: Q1576 SDG NO.: Q1576
 Lab File ID: VX045312.D Date Analyzed: 03/18/2025
 Instrument ID: MSVOA_X Time Analyzed: 10:02
 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	99818	5.54	175808	6.76	151375	10.05
UPPER LIMIT	199636	6.044	351616	7.257	302750	10.549
LOWER LIMIT	49909	5.044	87904	6.257	75687.5	9.549
EPA SAMPLE NO.						
MW14	70033	5.54	137531	6.76	128480	10.05
VX0318WBL01	66984	5.54	130552	6.76	117786	10.05
VX0318WBS01	101216	5.55	179978	6.76	159085	10.05
VX0318WBSD01	94187	5.54	168890	6.76	150181	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: GENV01
 Lab Code: CHEM Case No.: Q1576 SAS No.: Q1576 SDG NO.: Q1576
 Lab File ID: VX045312.D Date Analyzed: 03/18/2025
 Instrument ID: MSVOA_X Time Analyzed: 10:02
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	71356	12.018				
UPPER LIMIT	142712	12.518				
LOWER LIMIT	35678	11.518				
EPA SAMPLE NO.						
MW14	54246	12.02				
VX0318WBL01	46358	12.02				
VX0318WBS01	70581	12.02				
VX0318WBSD01	66832	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:	G Environmental	Date Collected:	03/12/25
Project:	Ave L	Date Received:	03/14/25
Client Sample ID:	MW14	SDG No.:	Q1576
Lab Sample ID:	Q1576-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045334.D	1		03/18/25 18:43	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	3.80	J	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.79	J	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.92	J	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

Report of Analysis

Client:	G Environmental	Date Collected:	03/12/25
Project:	Ave L	Date Received:	03/14/25
Client Sample ID:	MW14	SDG No.:	Q1576
Lab Sample ID:	Q1576-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045334.D	1		03/18/25 18:43	VX031825

[illegible]

Report of Analysis

Client:	G Environmental	Date Collected:	03/12/25
Project:	Ave L	Date Received:	03/14/25
Client Sample ID:	MW14	SDG No.:	Q1576
Lab Sample ID:	Q1576-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045334.D	1		03/18/25 18:43	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
60-29-7	Diethyl Ether	1.50	J		2.13	ug/L

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\VX031825\
 Data File : VX045334.D
 Acq On : 18 Mar 2025 18:43
 Operator : JC/MD
 Sample : Q1576-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW14

Quant Time: Mar 19 01:49:16 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)

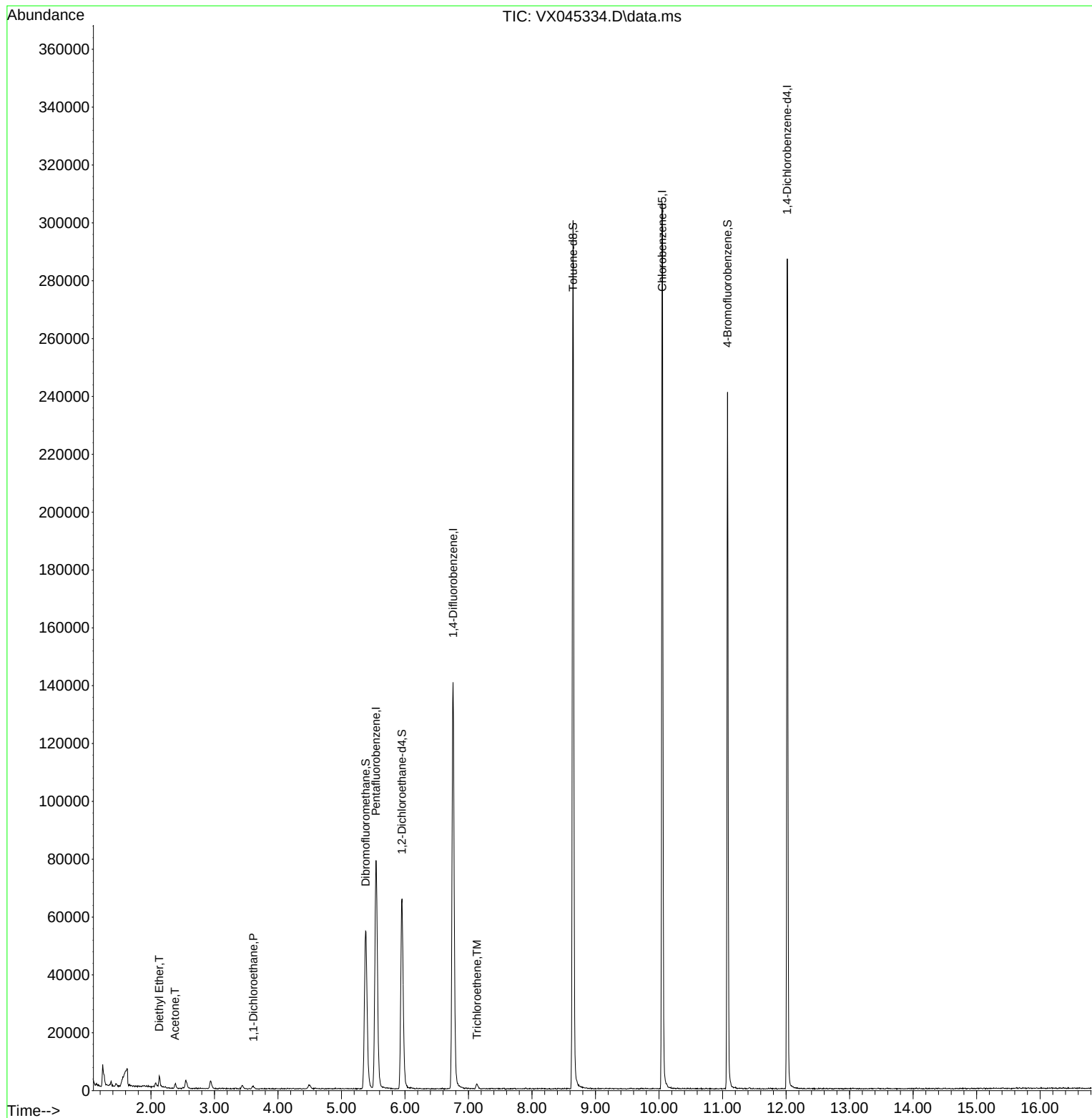
Internal Standards						
1) Pentafluorobenzene	5.544	168	70033	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	137531	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	128480	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	54246	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	63738	57.217	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	114.440%
35) Dibromofluoromethane	5.379	113	47622	51.784	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.560%
50) Toluene-d8	8.647	98	171547	51.454	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.900%
62) 4-Bromofluorobenzene	11.079	95	61548	55.710	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	111.420%
Target Compounds						
8) Diethyl Ether	2.130	74	818	1.476	ug/l	50
16) Acetone	2.379	43	1951	3.775	ug/l	96
24) 1,1-Dichloroethane	3.611	63	1375	0.788	ug/l #	83
44) Trichloroethene	7.135	130	860	0.920	ug/l	98

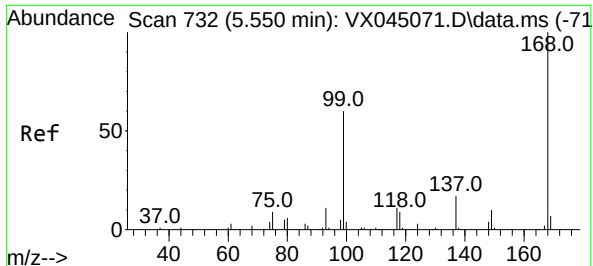
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031825\
Data File : VX045334.D
Acq On : 18 Mar 2025 18:43
Operator : JC/MD
Sample : Q1576-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW14

Quant Time: Mar 19 01:49:16 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: VX045334.D

Acq: 18 Mar 2025 18:43

Instrument :

MSVOA_X

ClientSampleId :

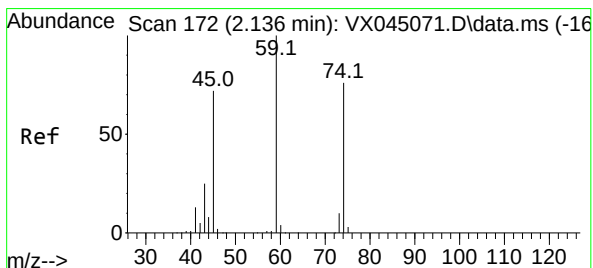
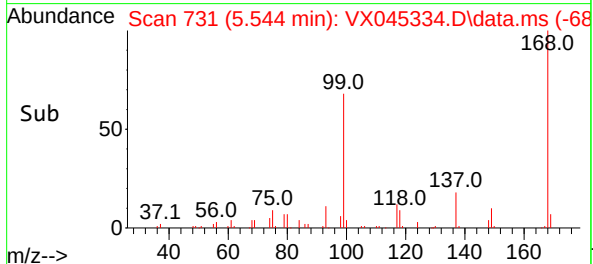
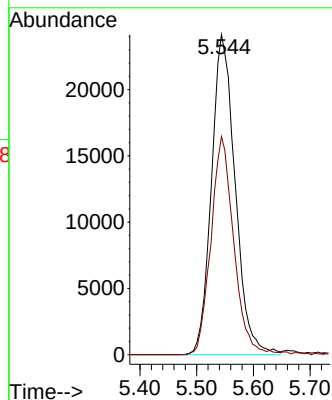
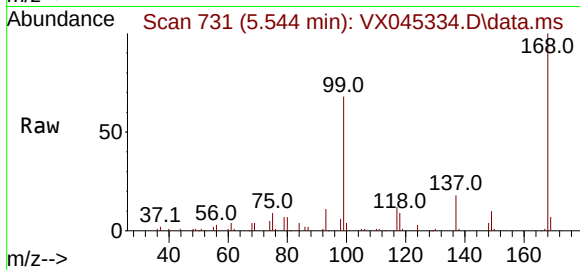
MW14

Tgt Ion:168 Resp: 70033

Ion Ratio Lower Upper

168 100

99 68.2 48.2 72.4



#8

Diethyl Ether

Concen: 1.476 ug/l

RT: 2.130 min Scan# 171

Delta R.T. -0.006 min

Lab File: VX045334.D

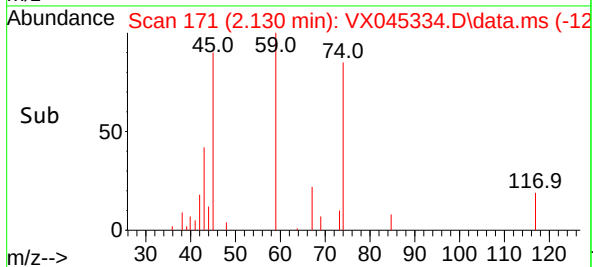
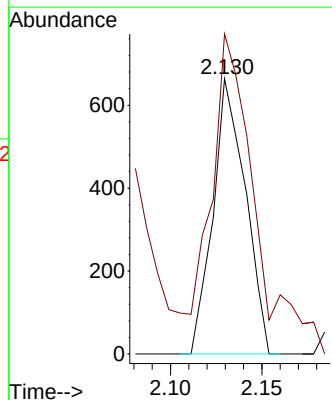
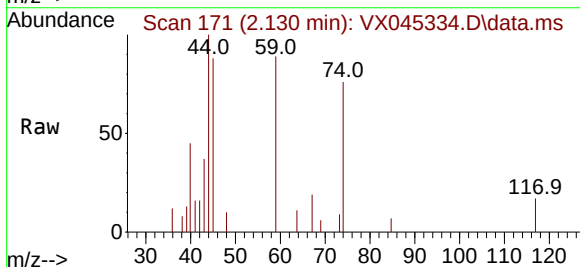
Acq: 18 Mar 2025 18:43

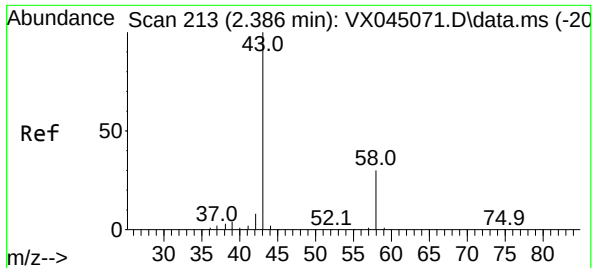
Tgt Ion: 74 Resp: 818

Ion Ratio Lower Upper

74 100

45 153.4 51.5 154.5





#16

Acetone

Concen: 3.775 ug/l

RT: 2.379 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX045334.D

Acq: 18 Mar 2025 18:43

Instrument :

MSVOA_X

ClientSampleId :

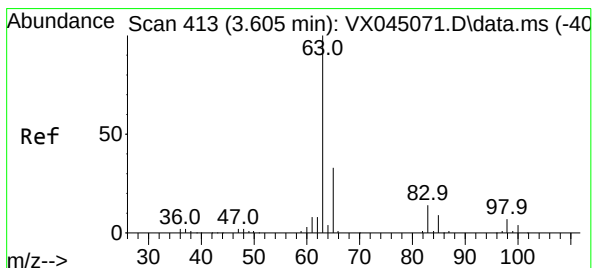
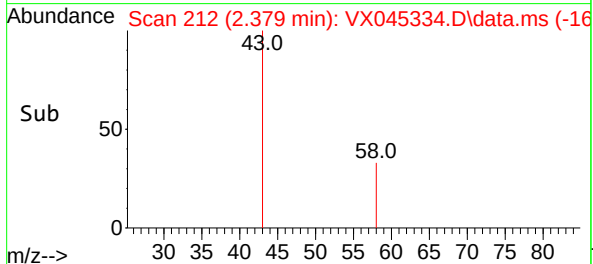
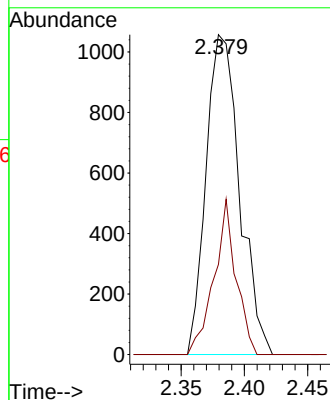
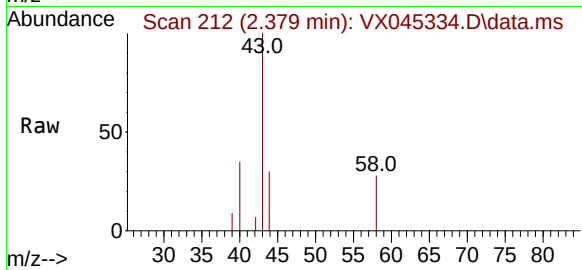
MW14

Tgt Ion: 43 Resp: 1951

Ion Ratio Lower Upper

43 100

58 28.2 24.2 36.4



#24

1,1-Dichloroethane

Concen: 0.788 ug/l

RT: 3.611 min Scan# 414

Delta R.T. 0.006 min

Lab File: VX045334.D

Acq: 18 Mar 2025 18:43

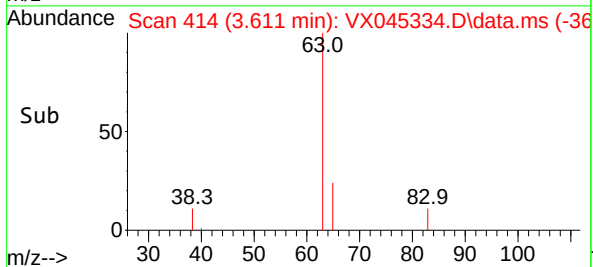
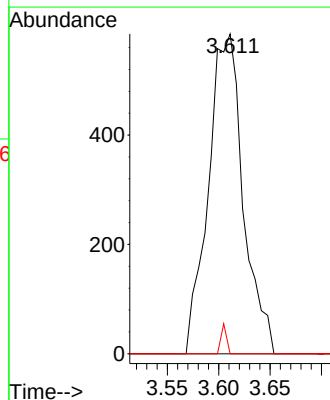
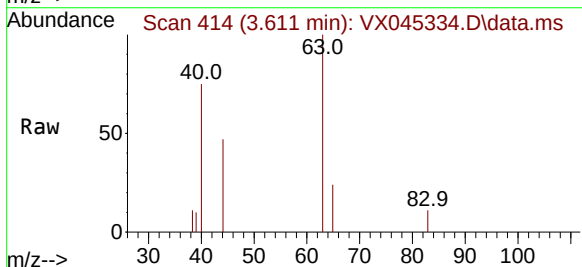
Tgt Ion: 63 Resp: 1375

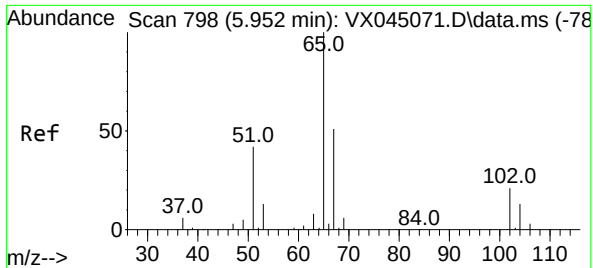
Ion Ratio Lower Upper

63 100

98 0.0 3.4 10.2#

100 0.0 2.1 6.5#





#33

1,2-Dichloroethane-d4

Concen: 57.217 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX045334.D

Acq: 18 Mar 2025 18:43

Instrument :

MSVOA_X

ClientSampleId :

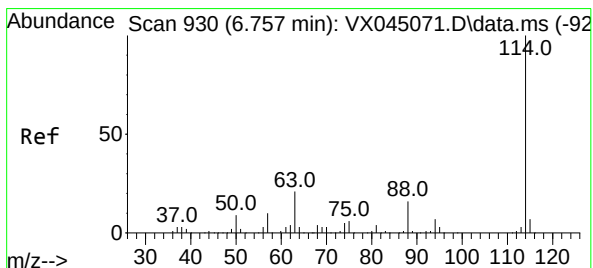
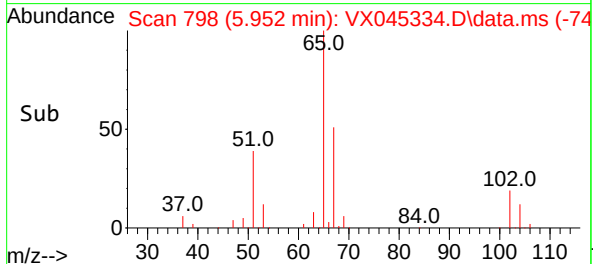
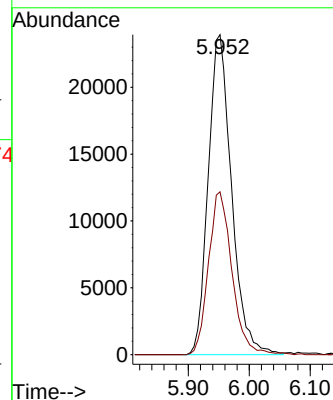
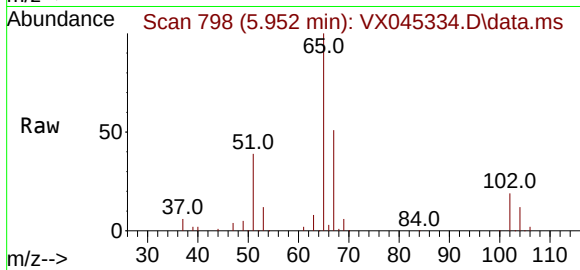
MW14

Tgt Ion: 65 Resp: 63738

Ion Ratio Lower Upper

65 100

67 51.0 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: VX045334.D

Acq: 18 Mar 2025 18:43

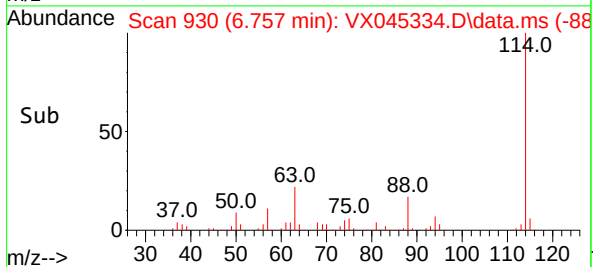
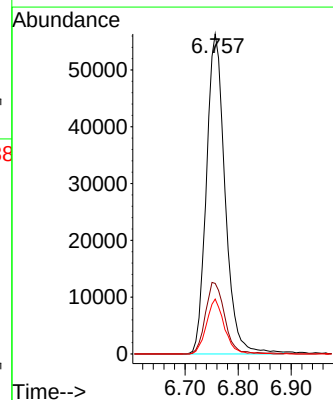
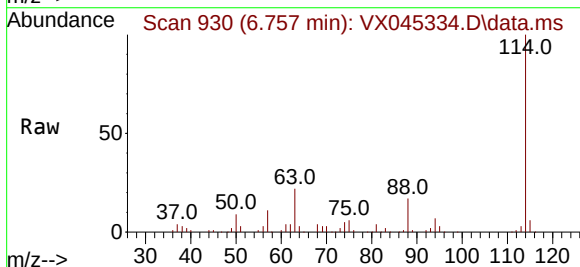
Tgt Ion: 114 Resp: 137531

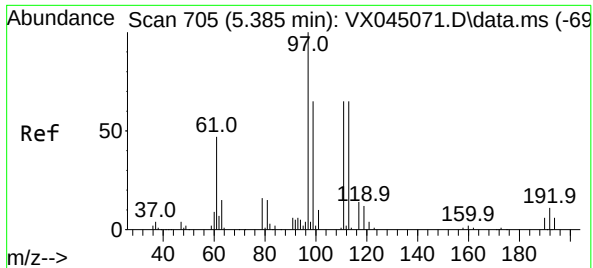
Ion Ratio Lower Upper

114 100

63 22.1 0.0 41.8

88 17.2 0.0 32.8





#35

Dibromofluoromethane

Concen: 51.784 ug/l

RT: 5.379 min Scan# 705

Delta R.T. -0.006 min

Lab File: VX045334.D

Acq: 18 Mar 2025 18:43

Instrument :

MSVOA_X

ClientSampleId :

MW14

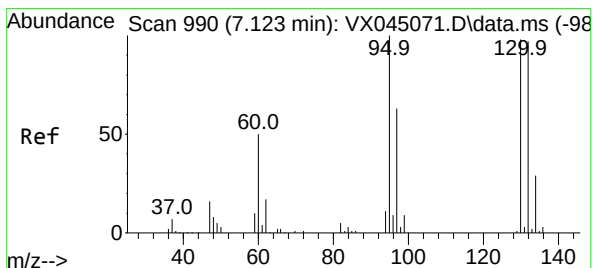
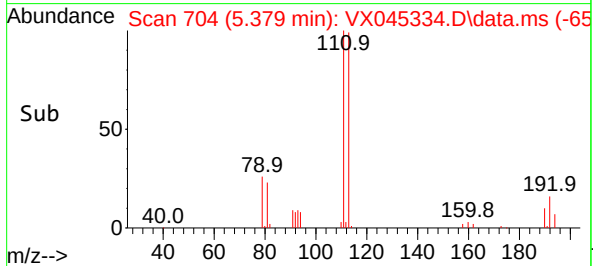
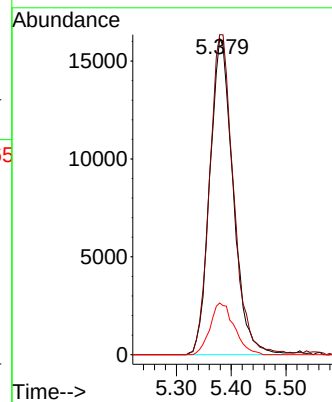
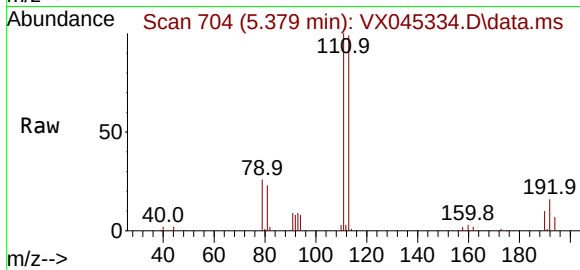
Tgt Ion:113 Resp: 47622

Ion Ratio Lower Upper

113 100

111 103.5 81.8 122.6

192 17.0 14.3 21.5



#44

Trichloroethene

Concen: 0.920 ug/l

RT: 7.135 min Scan# 992

Delta R.T. 0.012 min

Lab File: VX045334.D

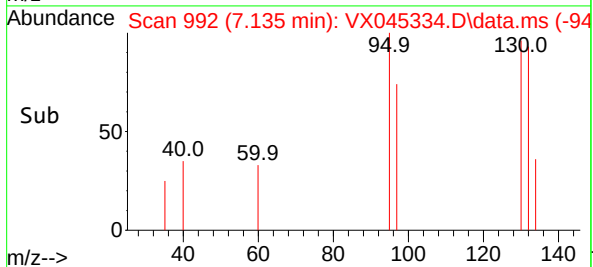
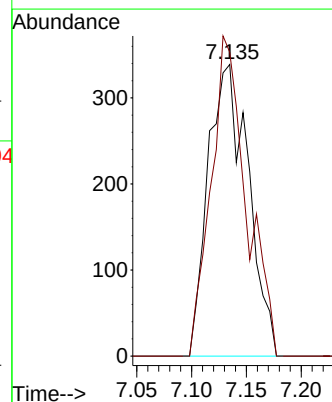
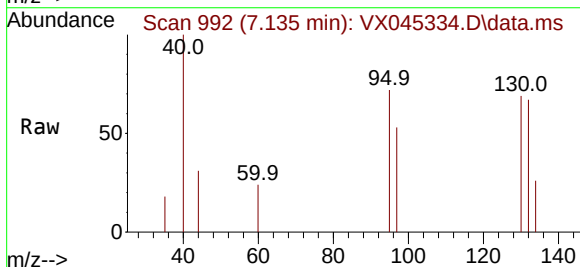
Acq: 18 Mar 2025 18:43

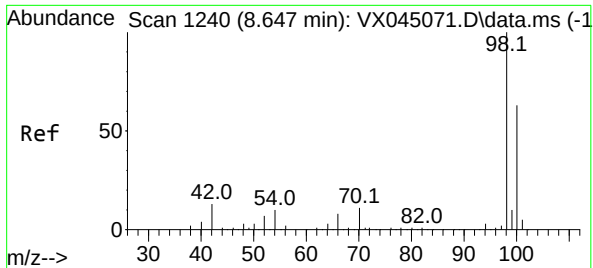
Tgt Ion:130 Resp: 860

Ion Ratio Lower Upper

130 100

95 104.1 0.0 205.0

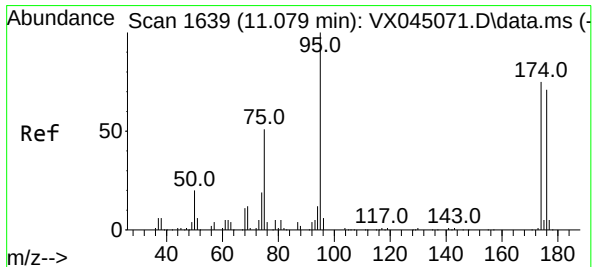
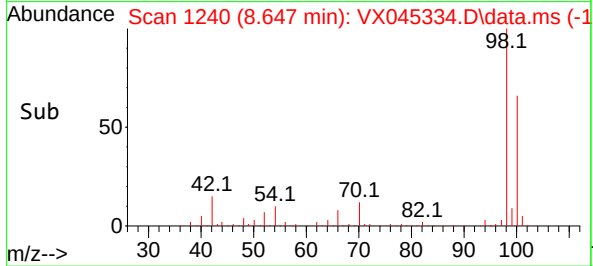
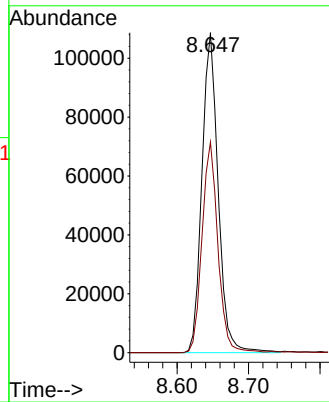
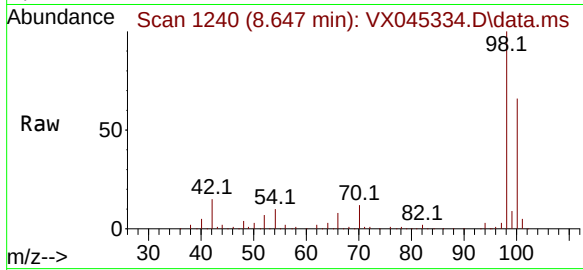




#50
Toluene-d8
Concen: 51.454 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045334.D
Acq: 18 Mar 2025 18:43

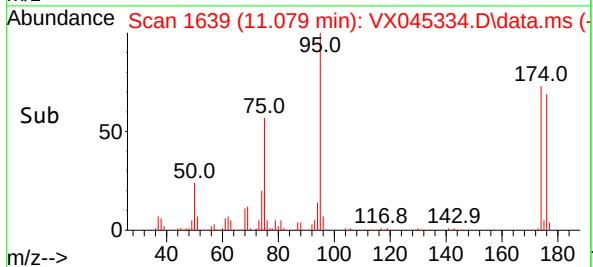
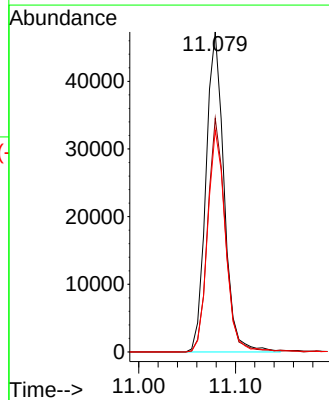
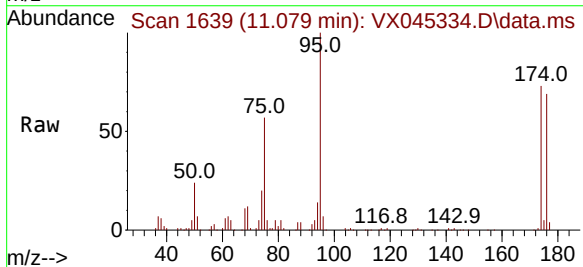
Instrument :
MSVOA_X
ClientSampleId :
MW14

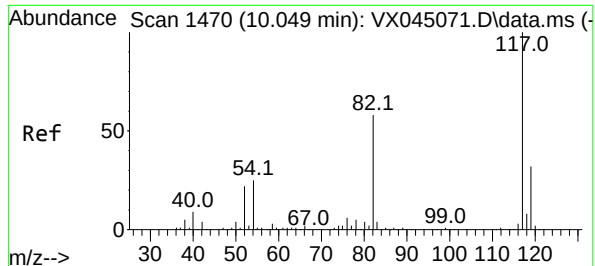
Tgt Ion: 98 Resp: 171547
Ion Ratio Lower Upper
98 100
100 64.3 52.0 78.0



#62
4-Bromofluorobenzene
Concen: 55.710 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045334.D
Acq: 18 Mar 2025 18:43

Tgt Ion: 95 Resp: 61548
Ion Ratio Lower Upper
95 100
174 71.3 0.0 148.2
176 69.2 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: VX045334.D

Acq: 18 Mar 2025 18:43

Instrument :

MSVOA_X

ClientSampleId :

MW14

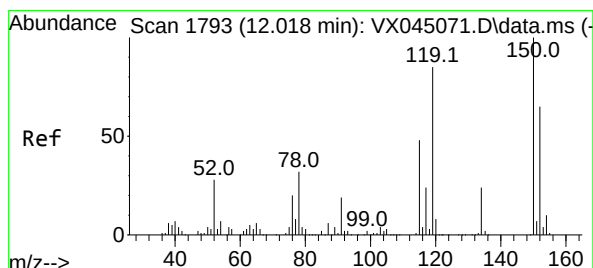
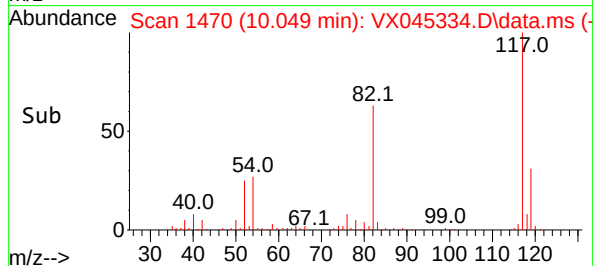
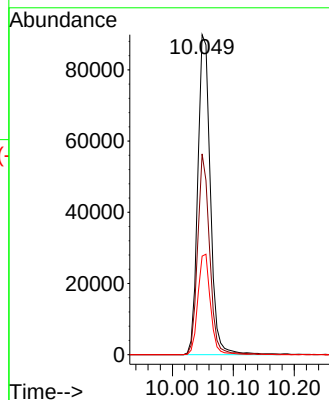
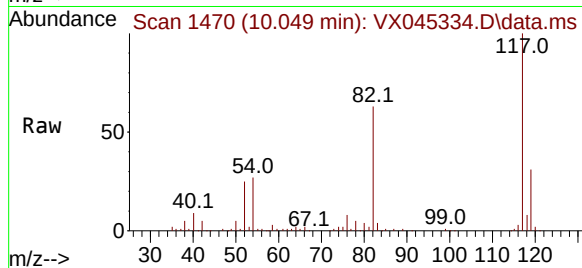
Tgt Ion:117 Resp: 128480

Ion Ratio Lower Upper

117 100

82 62.8 46.3 69.5

119 30.8 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: VX045334.D

Acq: 18 Mar 2025 18:43

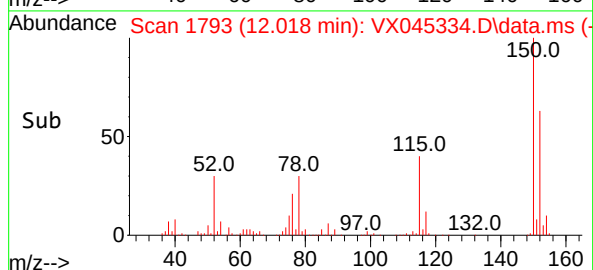
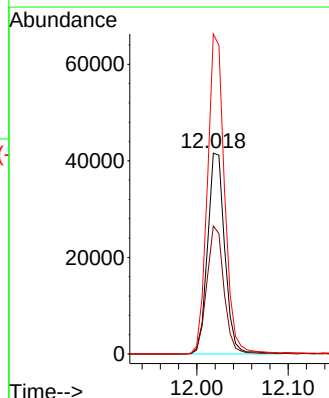
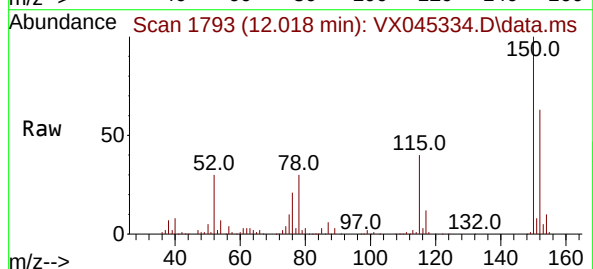
Tgt Ion:152 Resp: 54246

Ion Ratio Lower Upper

152 100

115 63.6 44.2 132.6

150 159.6 0.0 349.0





CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GENV01
 Lab Code: CHEM Case No.: Q1576 SAS No.: Q1576 SDG No.: Q1576
 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	
Dichlorodifluoromethane	0.624	0.646	0.646	0.627	0.626	0.607	0.629	2.4	
Chloromethane	0.755	0.821	0.828	0.753	0.721	0.744	0.770	5.7	
Vinyl Chloride	0.773	0.755	0.774	0.761	0.765	0.758	0.764	1	
Bromomethane		0.337	0.298	0.292	0.284	0.291	0.300	7	
Chloroethane	0.373	0.421	0.366	0.373	0.297	0.286	0.352	14.5	
Trichlorofluoromethane	0.978	1.061	1.050	1.050	0.982	0.948	1.012	4.7	
1,1,2-Trichlorotrifluoroethane	0.526	0.613	0.595	0.594	0.596	0.563	0.581	5.4	
1,1-Dichloroethene	0.609	0.620	0.612	0.623	0.620	0.603	0.614	1.3	
Acetone	0.414	0.363	0.384	0.351	0.345	0.356	0.369	7	
Carbon Disulfide	1.584	1.582	1.587	1.660	1.708	1.698	1.636	3.6	
Methyl tert-butyl Ether	1.955	1.913	2.127	2.083	2.132	2.158	2.061	5	
Methyl Acetate	0.954	0.835	0.903	0.867	0.869	0.899	0.888	4.6	
Methylene Chloride	0.806	0.730	0.752	0.698	0.694	0.706	0.731	5.8	
trans-1,2-Dichloroethene	0.540	0.619	0.603	0.631	0.634	0.616	0.607	5.7	
1,1-Dichloroethane	1.200	1.223	1.280	1.242	1.270	1.264	1.247	2.5	
Cyclohexane		1.021	1.087	1.108	1.142	1.052	1.082	4.3	
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	
cis-1,2-Dichloroethene	0.687	0.746	0.765	0.762	0.767	0.769	0.749	4.2	
Bromochloromethane	0.557	0.633	0.613	0.603	0.563	0.596	0.594	5	
Chloroform	1.206	1.247	1.278	1.246	1.230	1.225	1.239	2	
1,1,1-Trichloroethane	0.908	0.992	1.009	1.024	1.044	1.025	1.000	4.8	
Methylcyclohexane	0.464	0.530	0.560	0.585	0.607	0.550	0.549	9.1	
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	
1,2-Dichloropropane	0.354	0.378	0.382	0.371	0.376	0.373	0.372	2.7	
Bromodichloromethane	0.478	0.503	0.536	0.524	0.528	0.528	0.516	4.2	
4-Methyl-2-Pentanone	0.535	0.570	0.647	0.610	0.579	0.579	0.587	6.5	
Toluene	0.716	0.872	0.892	0.898	0.874	0.845	0.849	8	

* 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.



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GENV01
 Lab Code: CHEM Case No.: Q1576 SAS No.: Q1576 SDG No.: Q1576
 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	
t-1,3-Dichloropropene	0.304	0.389	0.436	0.469	0.490	0.502	0.431	17.3	
cis-1,3-Dichloropropene	0.404	0.463	0.509	0.535	0.555	0.553	0.503	11.8	
1,1,2-Trichloroethane	0.346	0.348	0.371	0.356	0.341	0.336	0.350	3.6	
2-Hexanone	0.349	0.412	0.476	0.448	0.431	0.436	0.425	10.1	
Dibromochloromethane	0.305	0.349	0.390	0.384	0.385	0.380	0.366	9	
1,2-Dibromoethane	0.311	0.352	0.371	0.356	0.355	0.350	0.349	5.7	
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	
Ethyl Benzene	1.566	1.794	1.889	1.952	1.972	1.888	1.843	8.1	
m/p-Xylenes	0.555	0.672	0.711	0.724	0.715	0.673	0.675	9.3	
o-Xylene	0.609	0.689	0.702	0.706	0.707	0.670	0.681	5.5	
Styrene	0.879	1.060	1.170	1.181	1.183	1.134	1.101	10.7	
Bromoform	0.209	0.234	0.276	0.276	0.300	0.300	0.266	13.9	
Isopropylbenzene	3.397	4.034	3.999	4.135	4.006	3.845	3.903	6.8	
1,1,2,2-Tetrachloroethane	1.395	1.479	1.513	1.419	1.391	1.396	1.432	3.6	
1,3-Dichlorobenzene	1.502	1.652	1.710	1.668	1.675	1.649	1.643	4.4	
1,4-Dichlorobenzene	1.605	1.702	1.665	1.687	1.669	1.643	1.662	2.1	
1,2-Dichlorobenzene	1.479	1.695	1.735	1.668	1.687	1.622	1.648	5.5	
1,2-Dibromo-3-Chloropropane	0.237	0.243	0.285	0.289	0.300	0.320	0.279	11.6	
1,2,4-Trichlorobenzene	0.668	0.821	0.978	1.009	1.074	1.080	0.938	17.3	
1,2,3-Trichlorobenzene	0.747	0.897	1.032	1.059	1.107	1.096	0.990	14.2	
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 : 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)

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

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 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

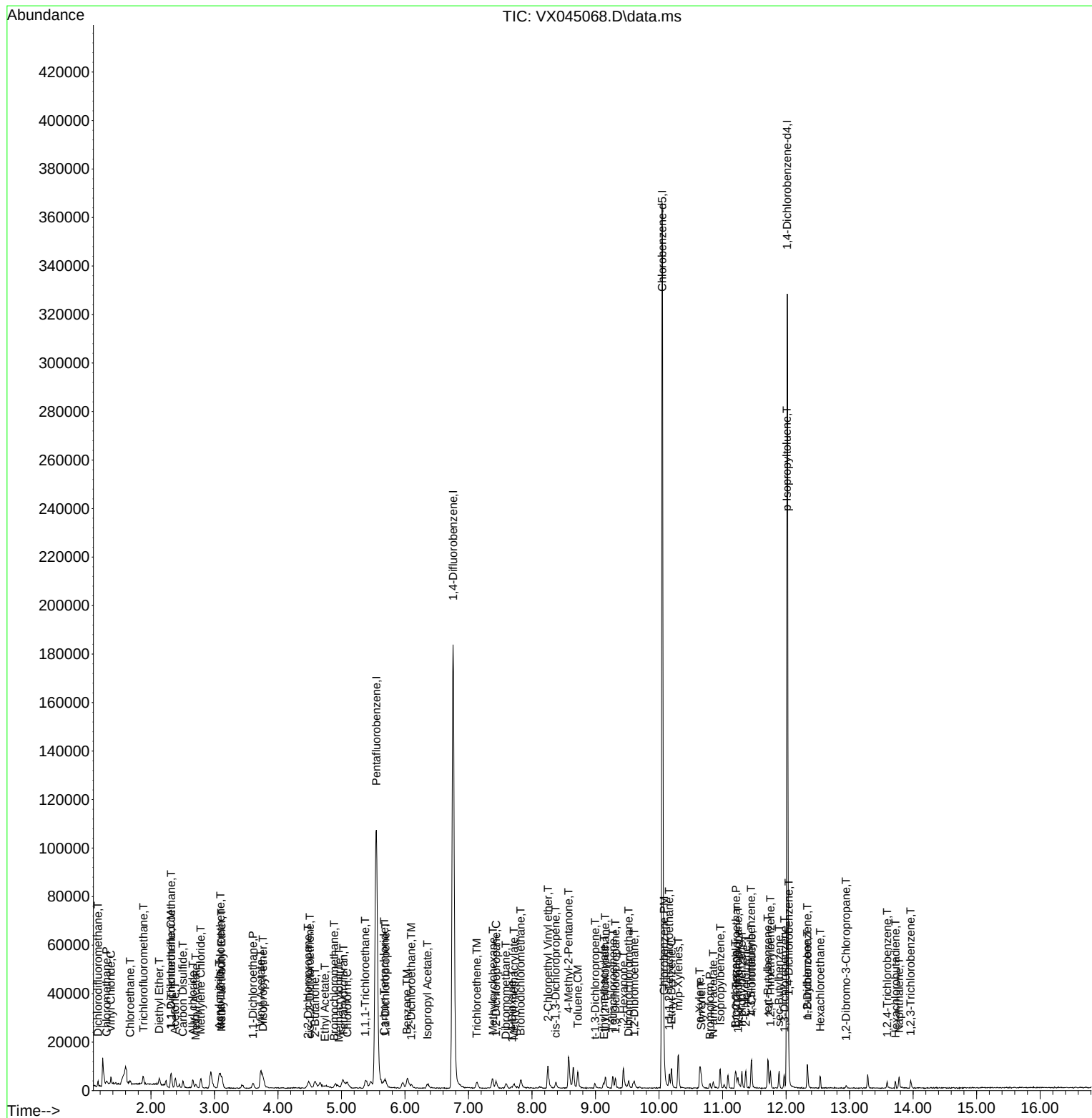
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	7.586	93	891	0.897	ug/l	92
47) Bromodichloromethane	7.818	83	1802	0.927	ug/l #	85
48) Methyl methacrylate	7.714	41	1328m	0.825	ug/l	
49) 1,4-Dioxane	7.684	88	639	18.144	ug/l #	81
51) 4-Methyl-2-Pentanone	8.574	43	10091	4.567	ug/l	95
52) 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

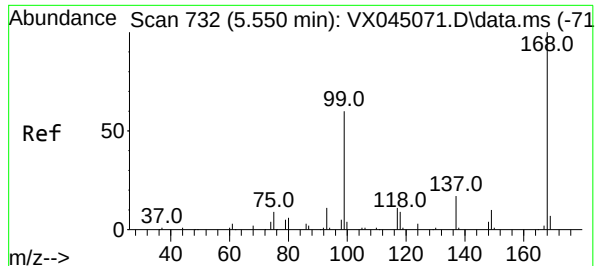
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations

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





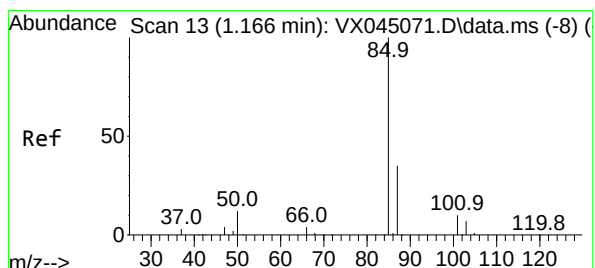
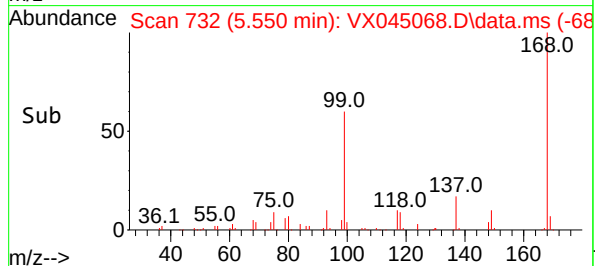
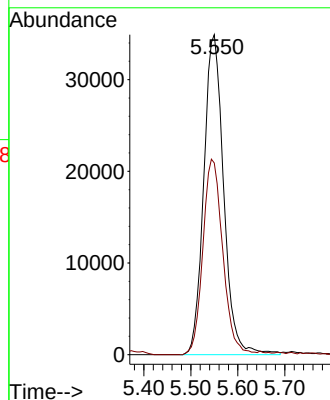
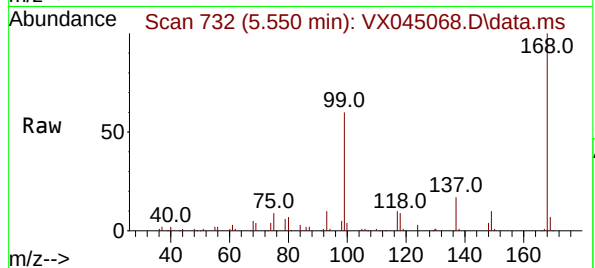
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

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

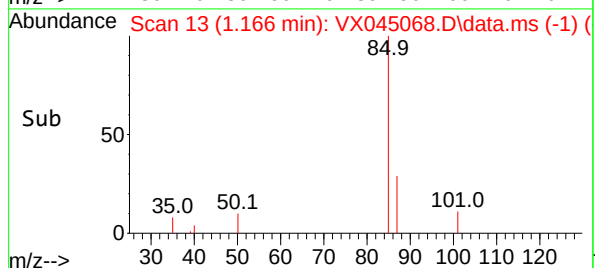
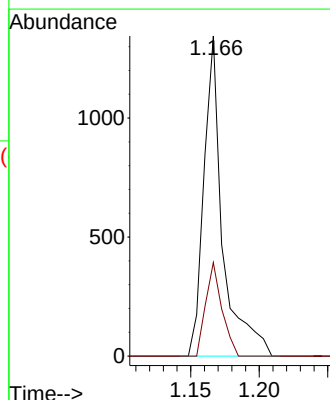
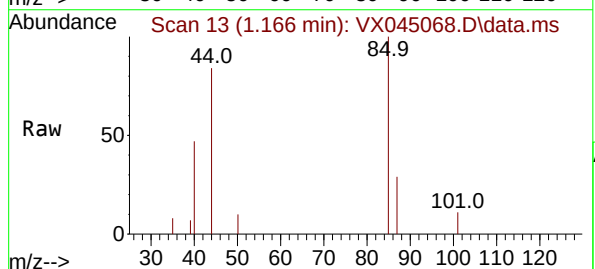
Manual Integrations
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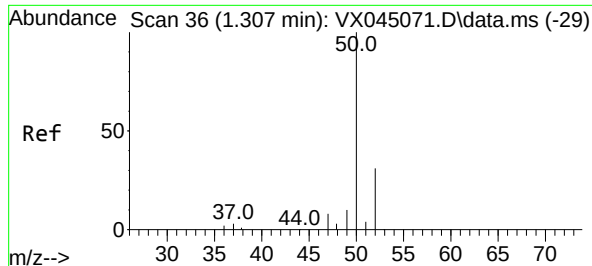
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





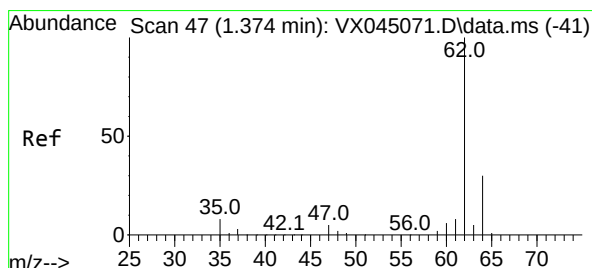
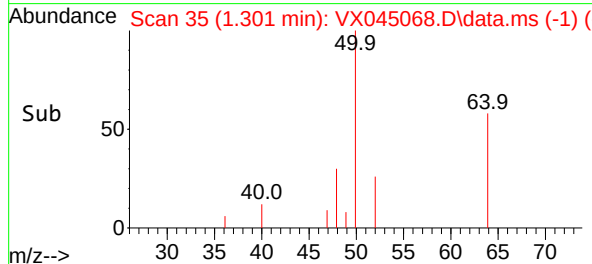
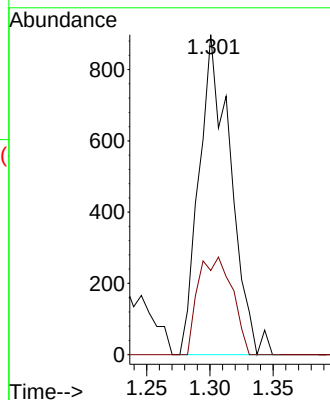
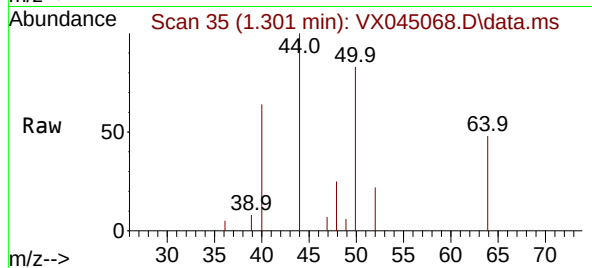
#3
Chloromethane
Concen: 0.975 ug/l
RT: 1.301 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

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

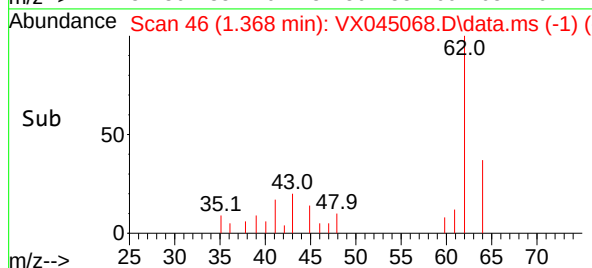
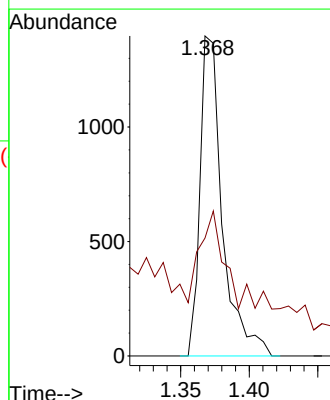
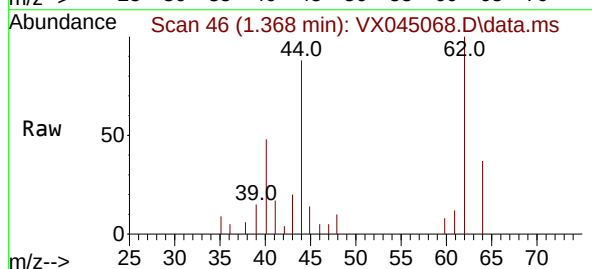
Manual Integrations
APPROVED

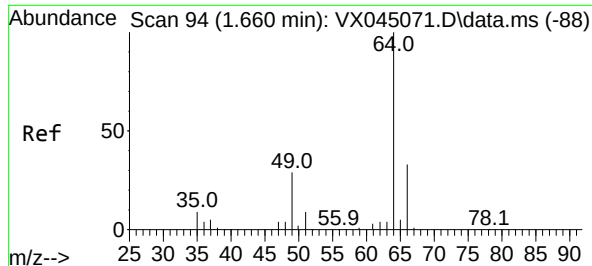
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

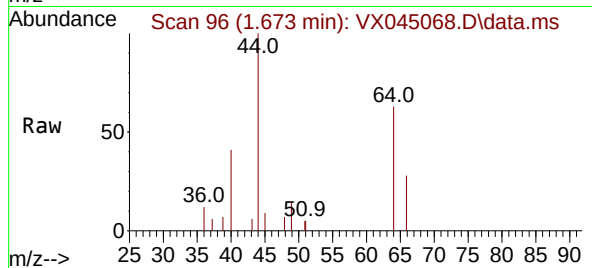
Tgt Ion: 62 Resp: 1588
Ion Ratio Lower Upper
62 100
64 22.0 24.3 36.5#





#6
Chloroethane
Concen: 0.992 ug/l m
RT: 1.673 min Scan# 90
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

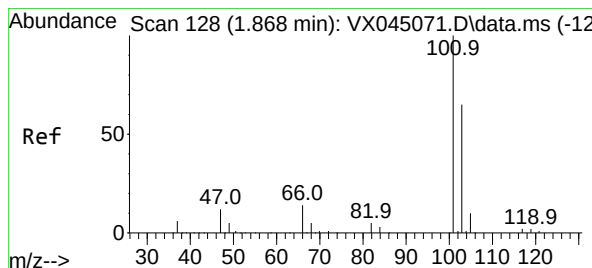
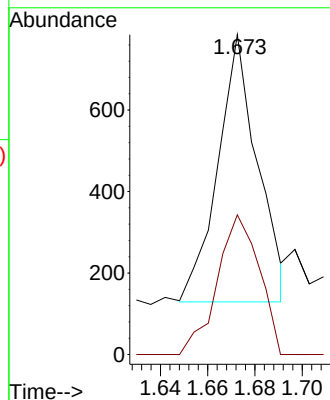
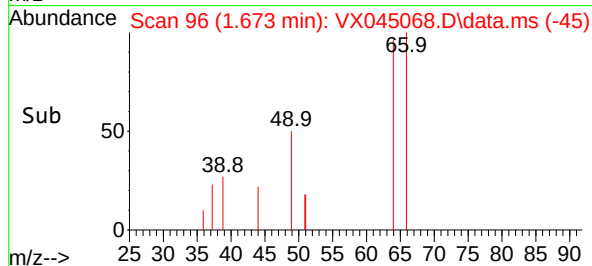
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



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

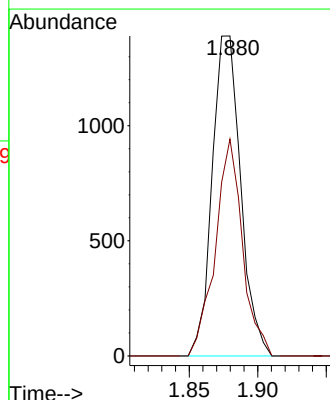
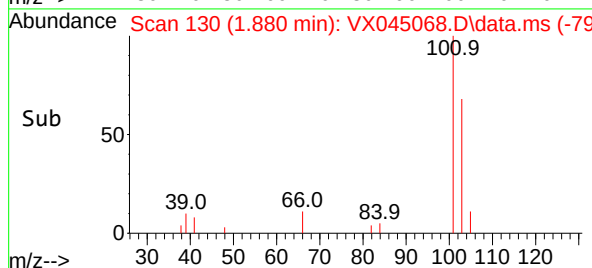
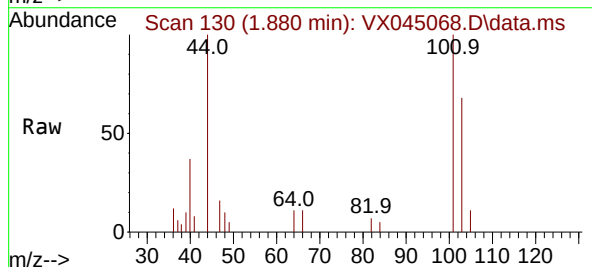
Manual Integrations
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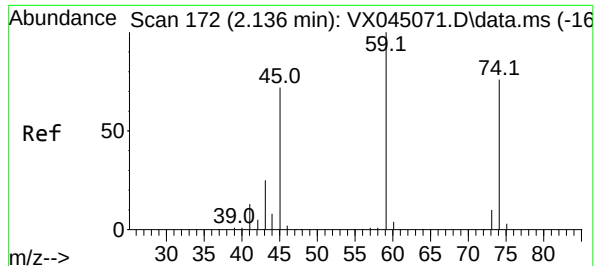
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

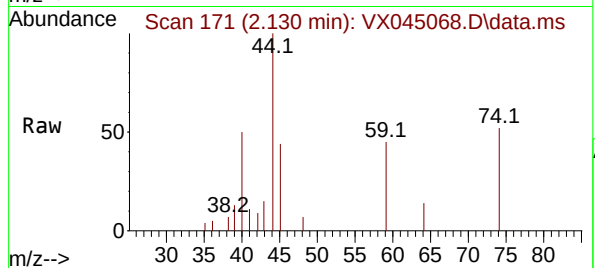
Tgt Ion:101 Resp: 2011
Ion Ratio Lower Upper
101 100
103 67.8 52.1 78.1





#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

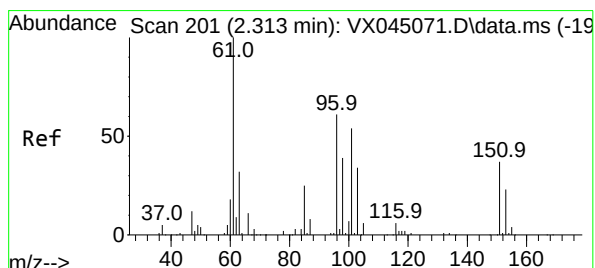
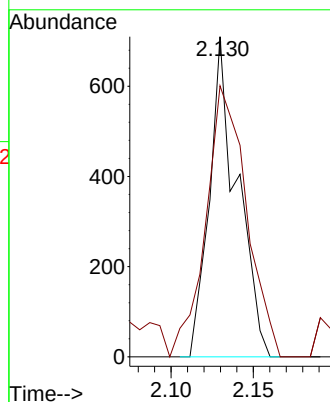
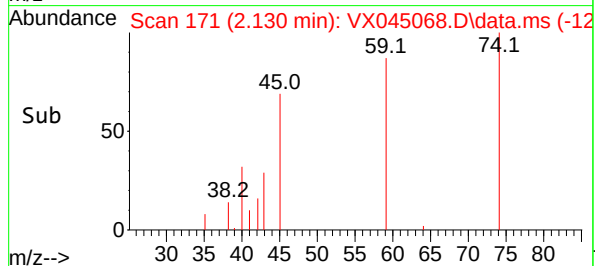
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



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

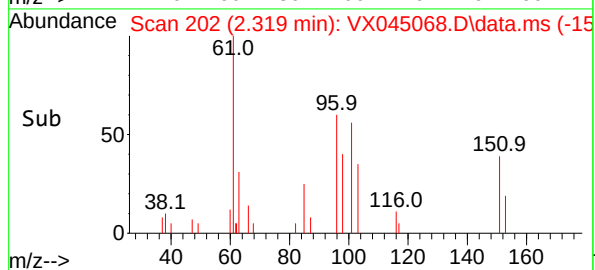
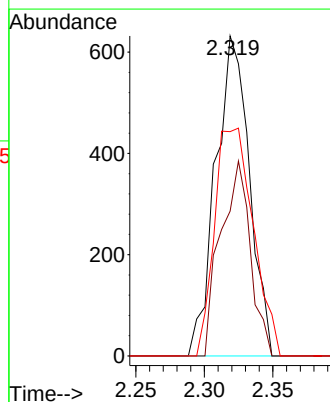
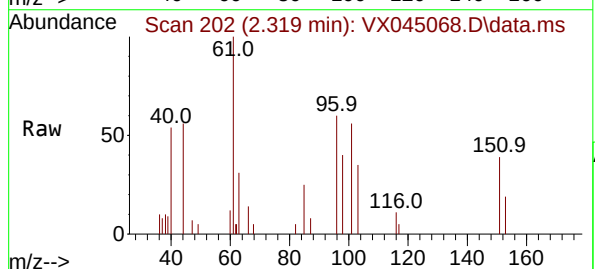
Manual Integrations
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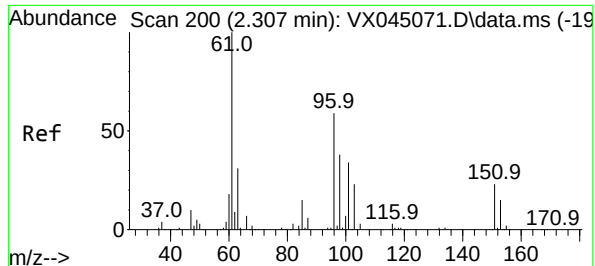
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

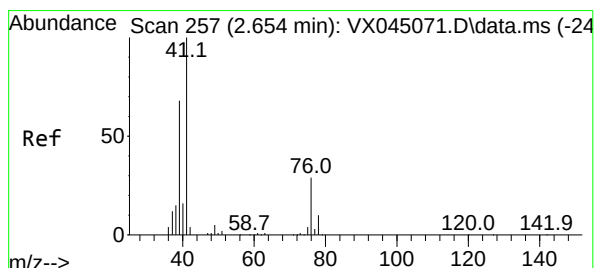
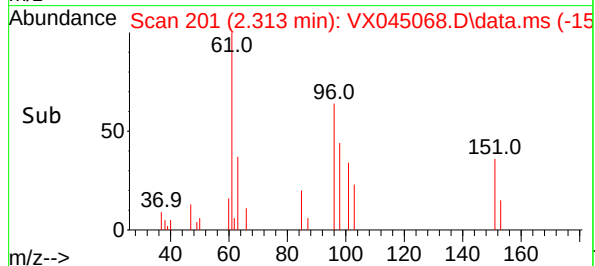
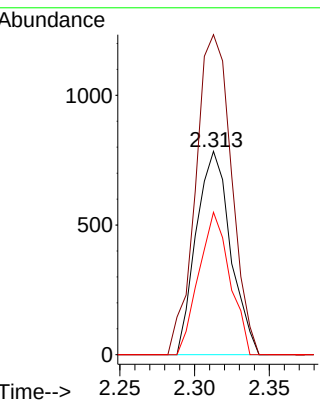
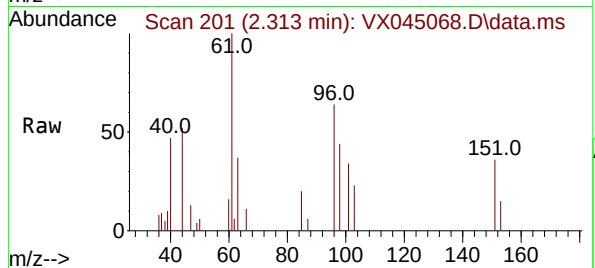
98 70.0 51.0 76.6

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

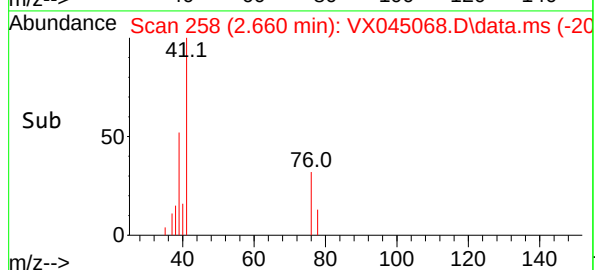
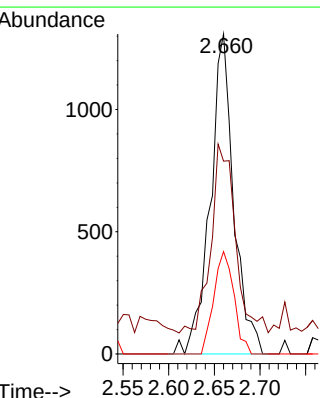
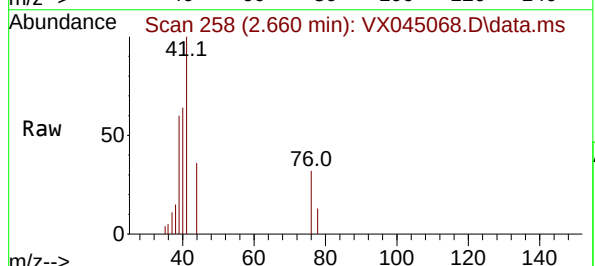
Tgt Ion: 41 Resp: 2343

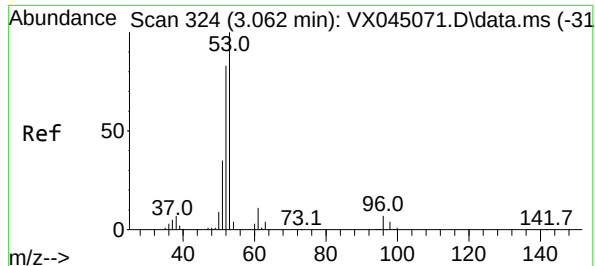
Ion Ratio Lower Upper

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 :

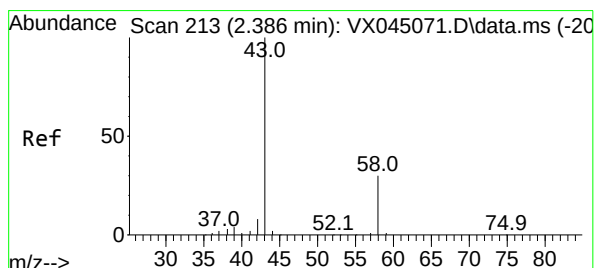
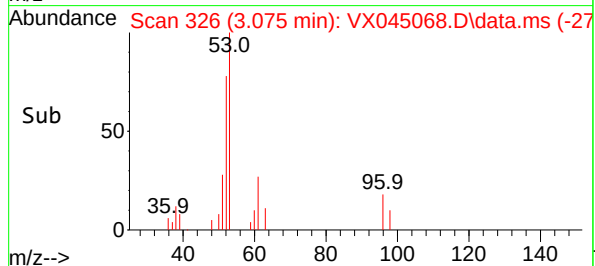
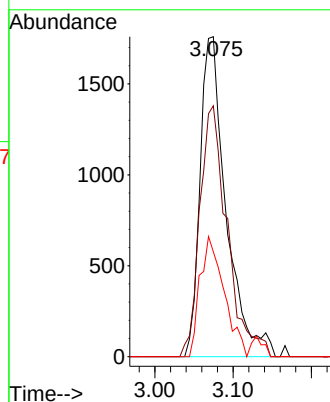
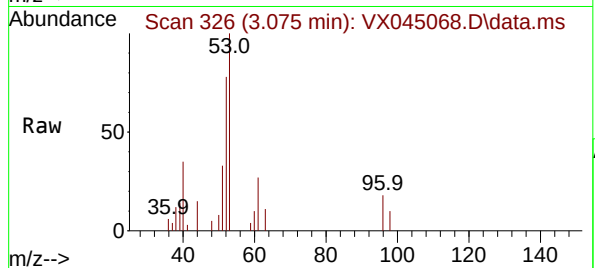
VSTDIC001

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

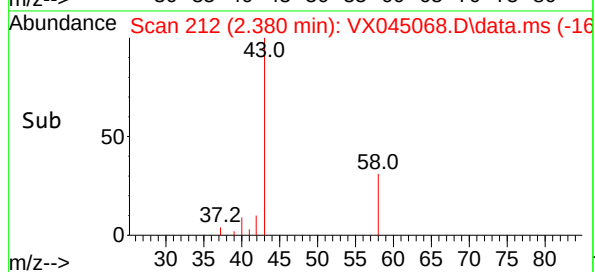
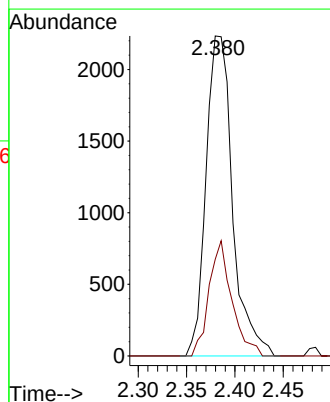
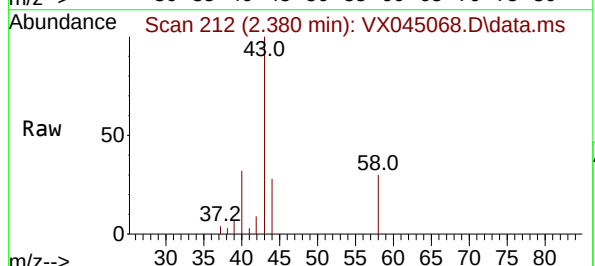
RT: 2.380 min Scan# 212

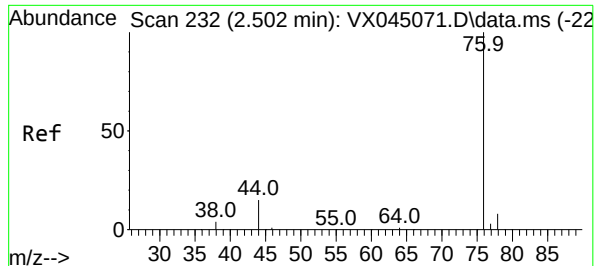
Delta R.T. -0.006 min

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

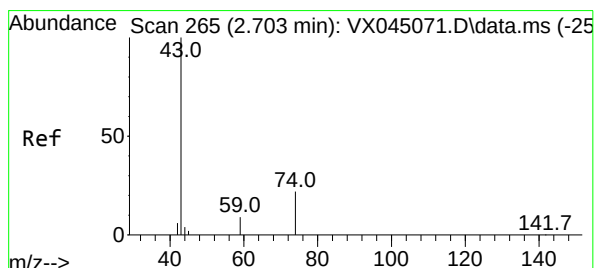
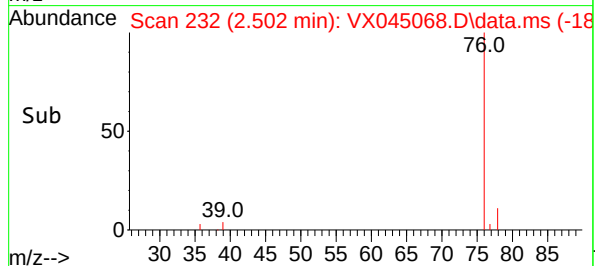
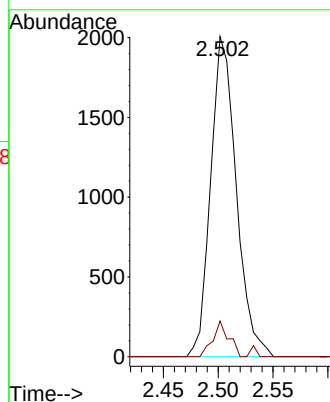
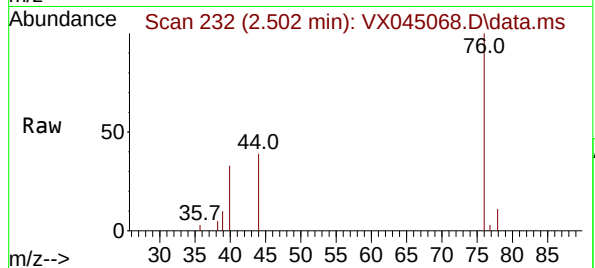
78 11.2 6.6 9.8

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

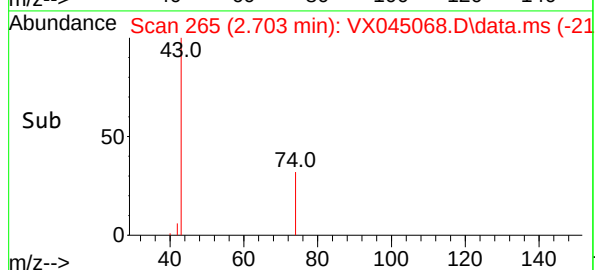
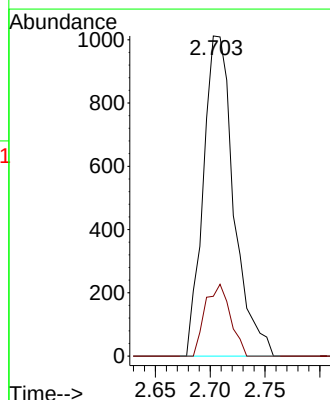
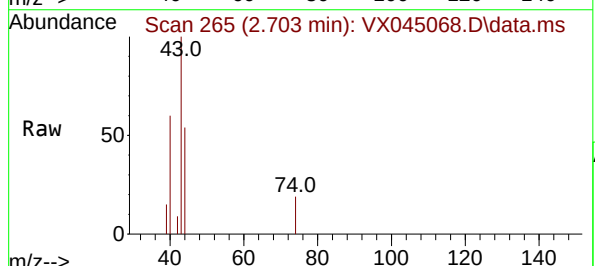
Acq: 28 Feb 2025 01:27

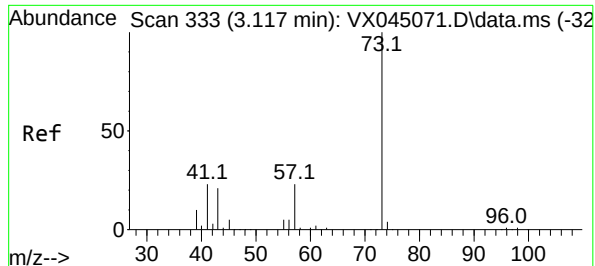
Tgt Ion: 43 Resp: 1960

Ion Ratio Lower Upper

43 100

74 18.5 17.4 26.2





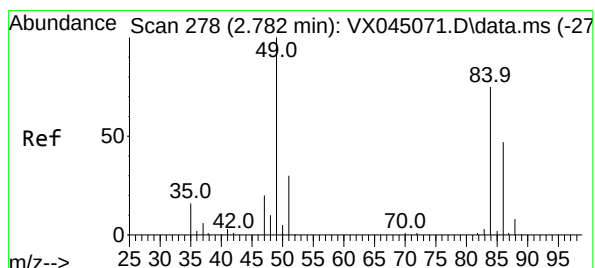
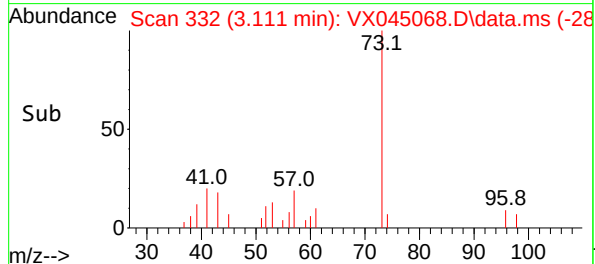
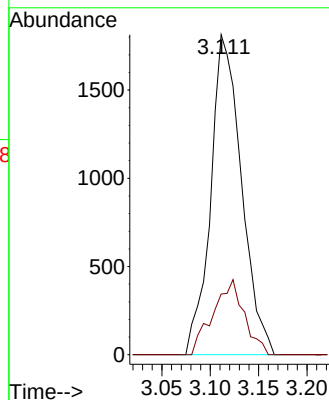
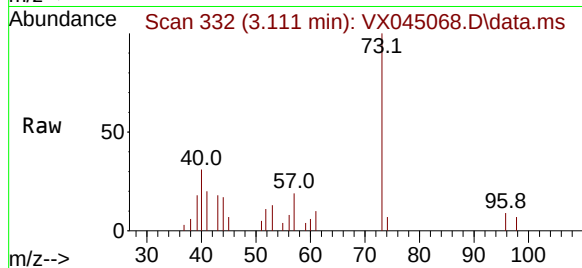
#19
Methyl tert-butyl Ether
Concen: 0.943 ug/l
RT: 3.111 min Scan# 311
Delta R.T. -0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 73 Resp: 401
Ion Ratio Lower Upper
73 100
57 19.0 18.5 27.7

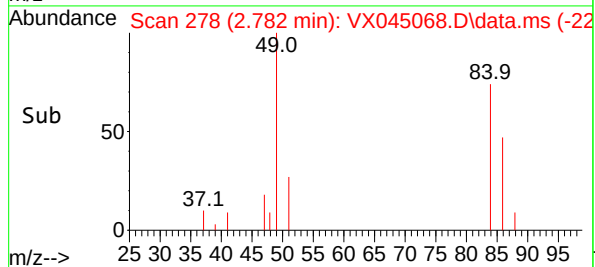
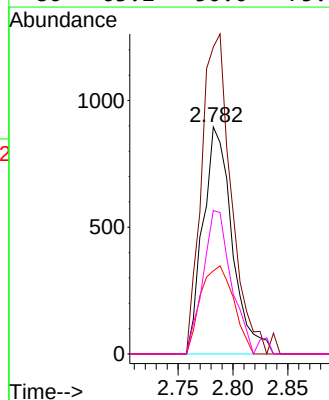
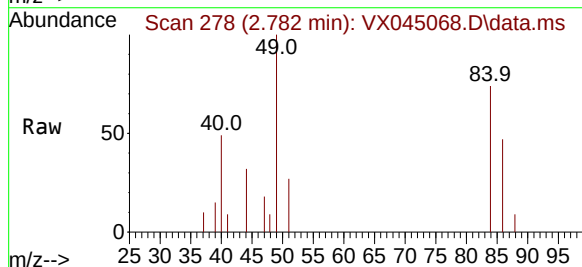
Manual Integrations
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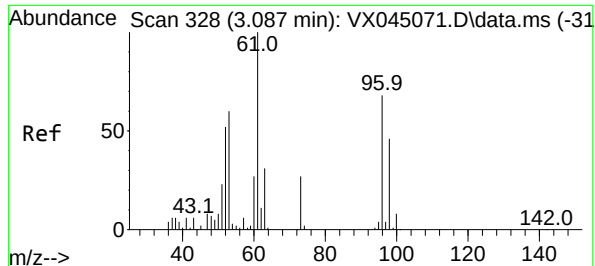
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

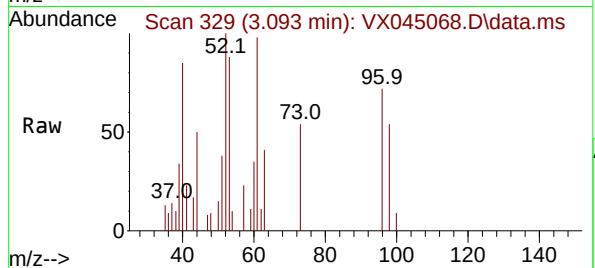
Tgt Ion: 84 Resp: 1656
Ion Ratio Lower Upper
84 100
49 135.2 106.5 159.7
51 36.6 32.1 48.1
86 63.2 50.0 75.0





#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

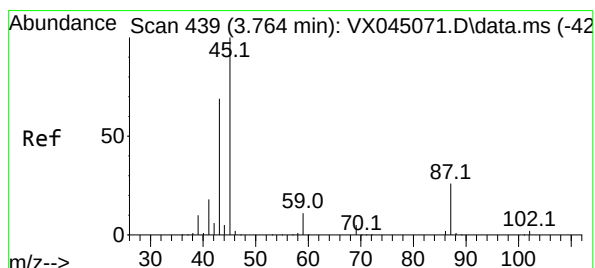
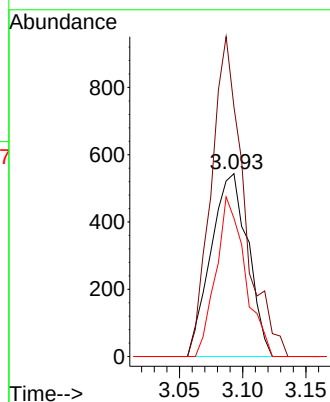
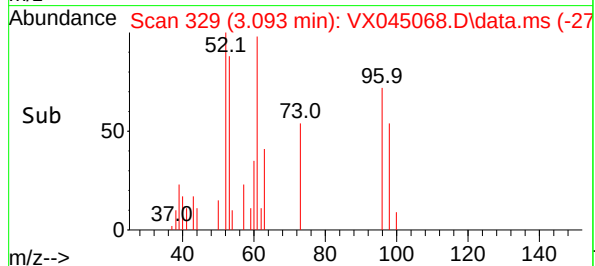
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



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

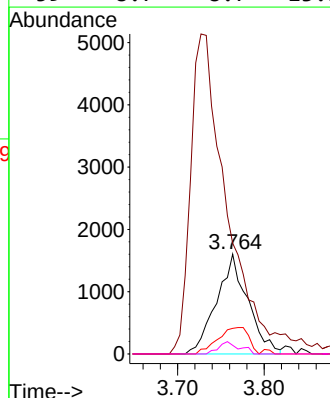
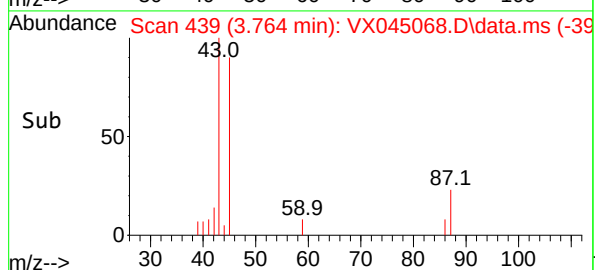
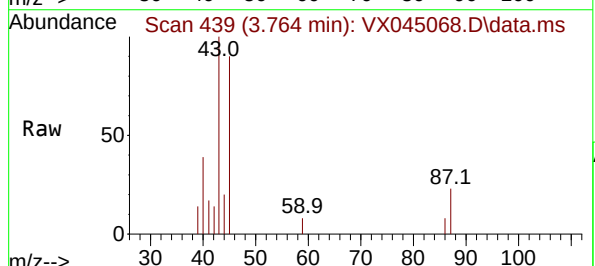
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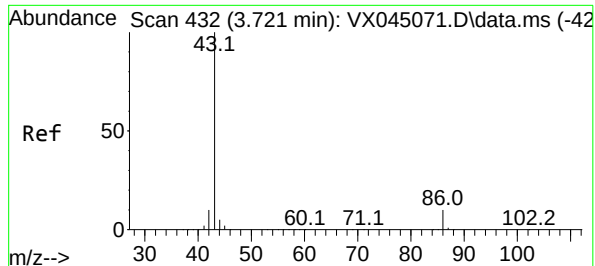
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





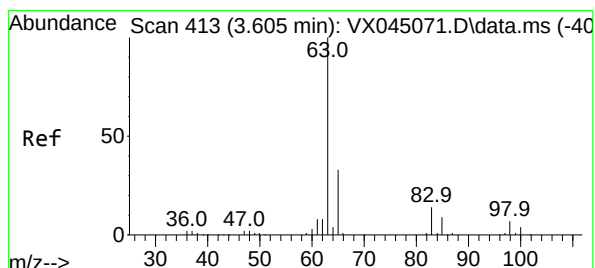
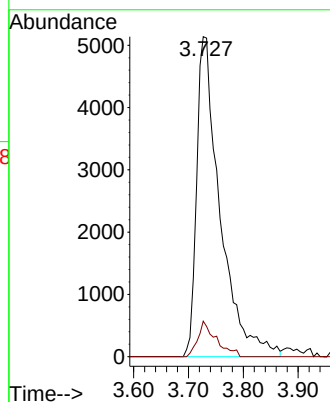
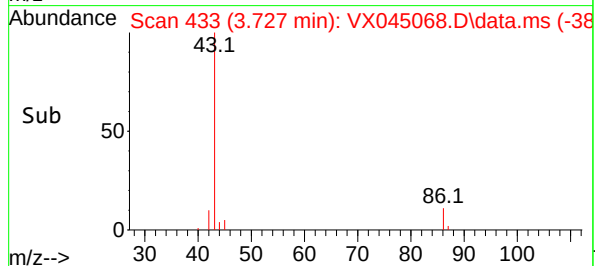
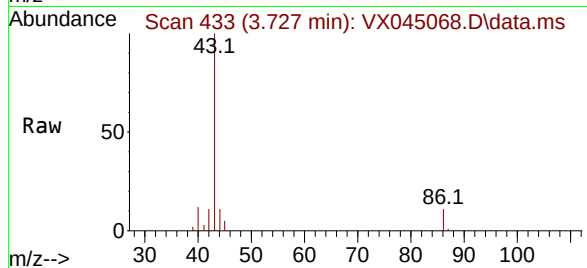
#23
Vinyl Acetate
Concen: 3.971 ug/l
RT: 3.727 min Scan# 413
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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

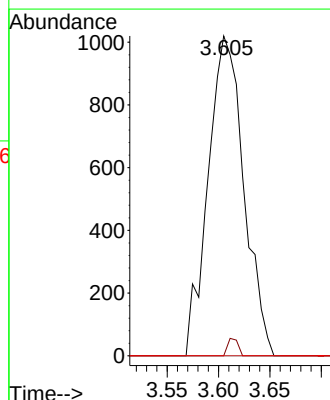
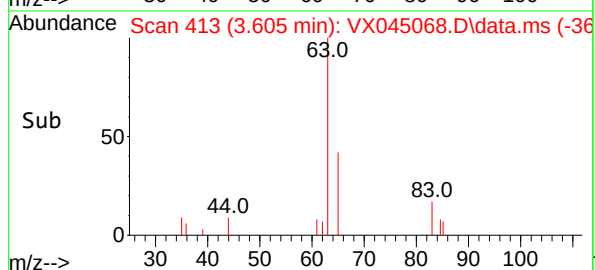
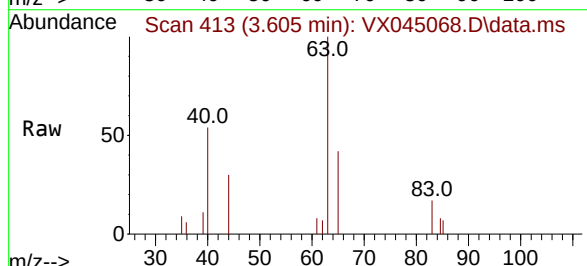
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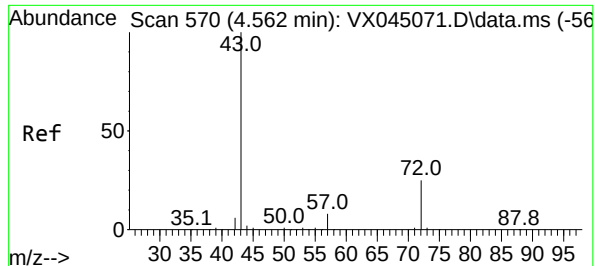
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

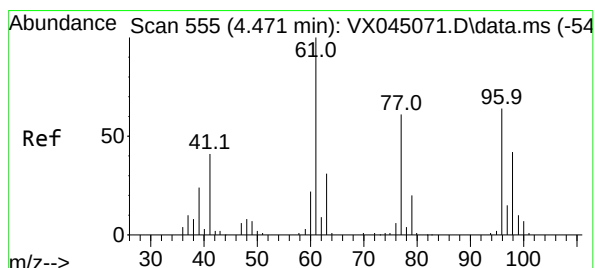
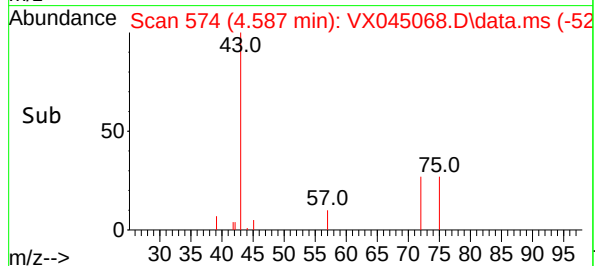
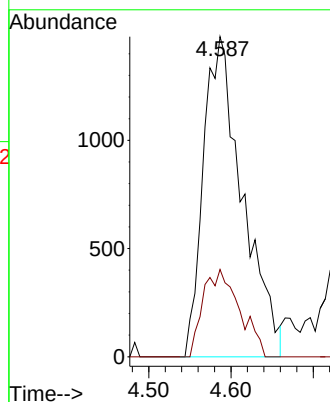
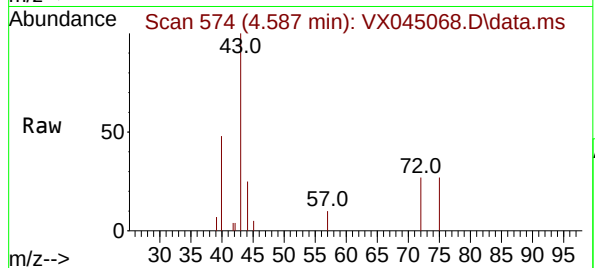
72 27.2 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

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

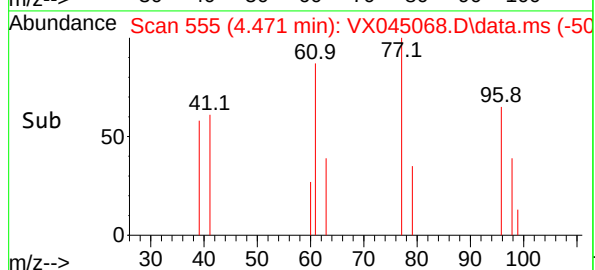
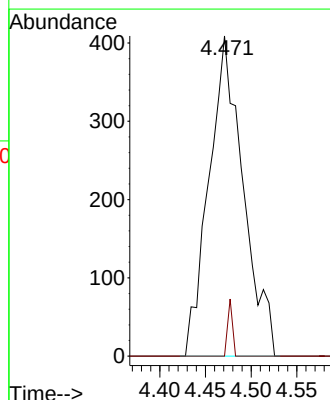
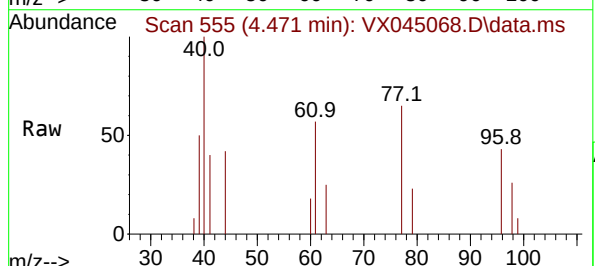
Acq: 28 Feb 2025 01:27

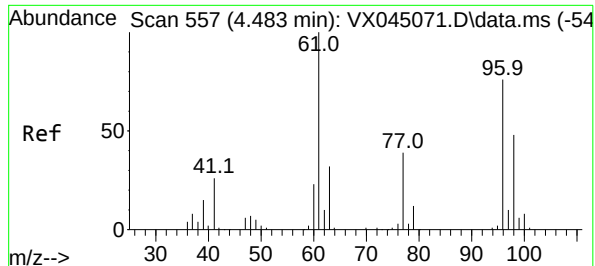
Tgt Ion: 77 Resp: 1066

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

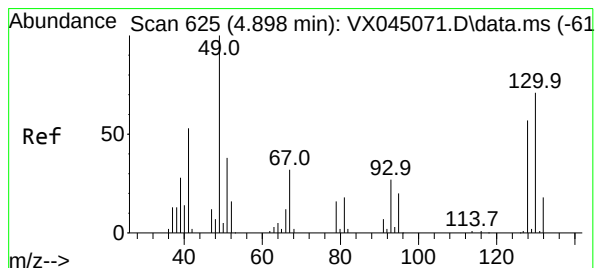
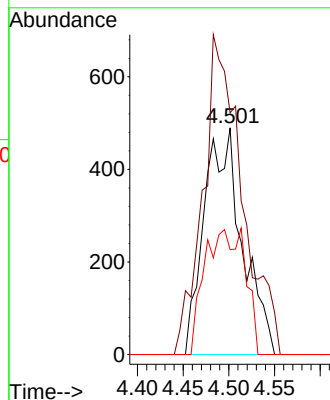
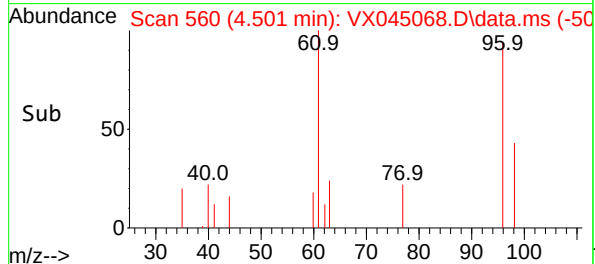
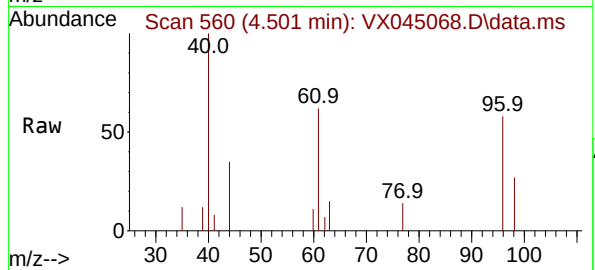
98 59.1 0.0 128.0

Manual Integrations

APPROVED

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

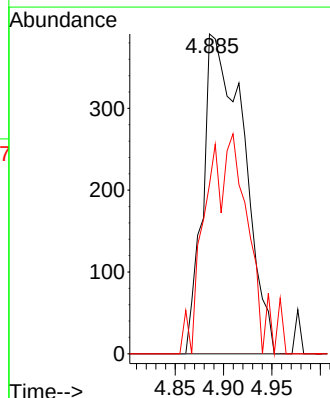
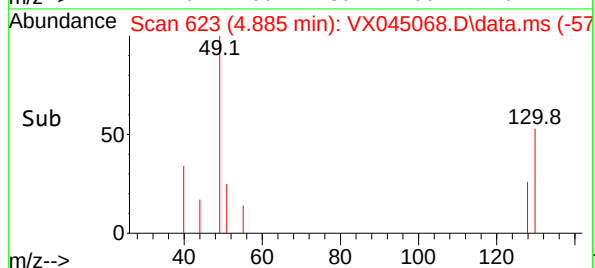
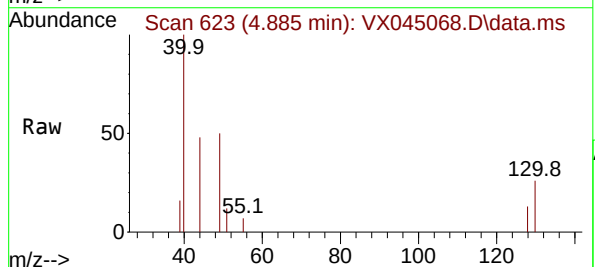
Tgt Ion: 49 Resp: 1144

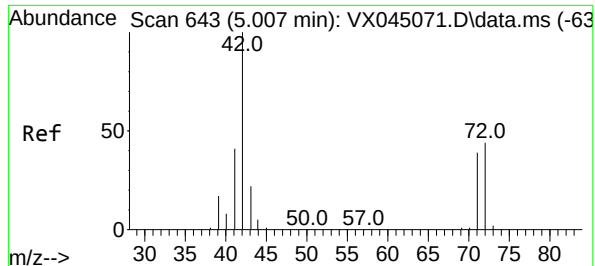
Ion Ratio Lower Upper

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

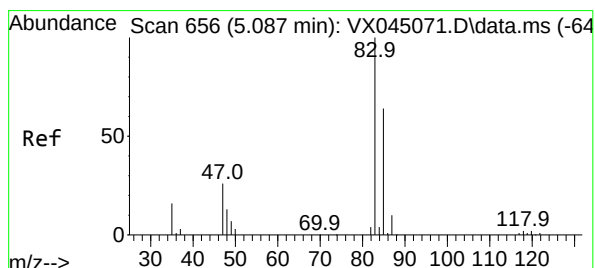
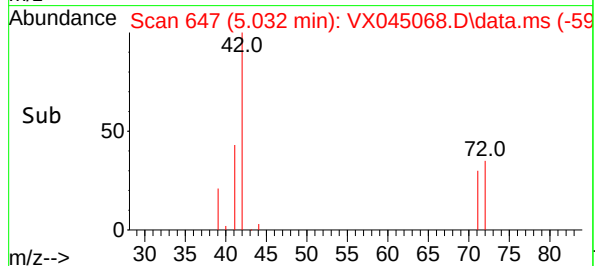
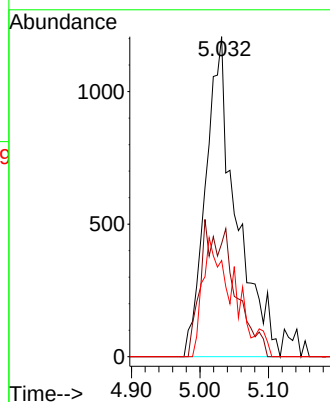
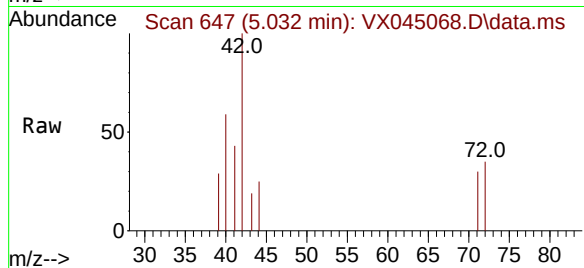
Tgt Ion:	42	Resp:	3719
Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.1	51.1
71	0.0	31.4	47.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#30

Chloroform

Concen: 0.978 ug/l

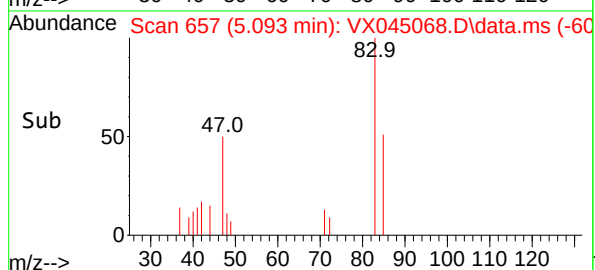
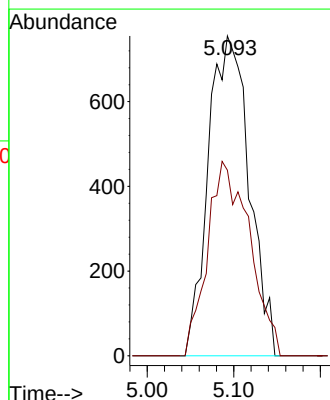
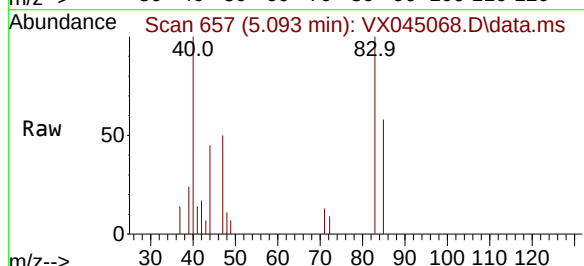
RT: 5.093 min Scan# 657

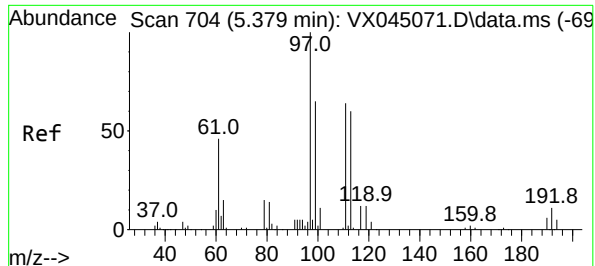
Delta R.T. 0.006 min

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

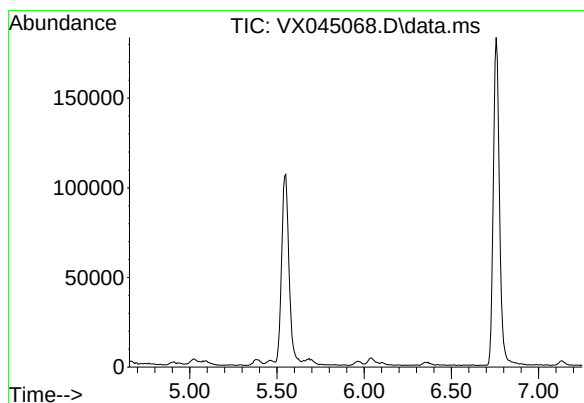
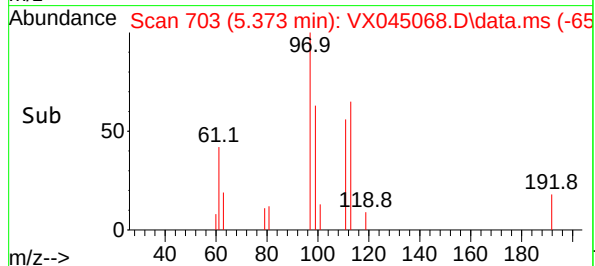
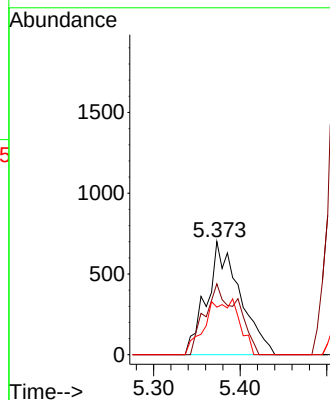
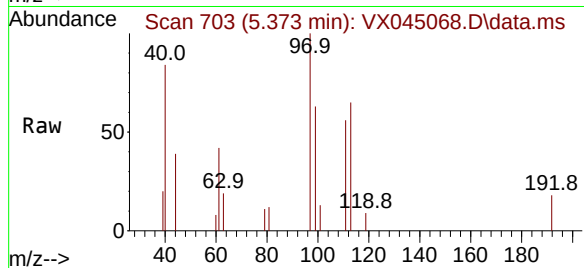
61 50.0 38.4 57.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 5.95 min

Lab File: VX045068.D

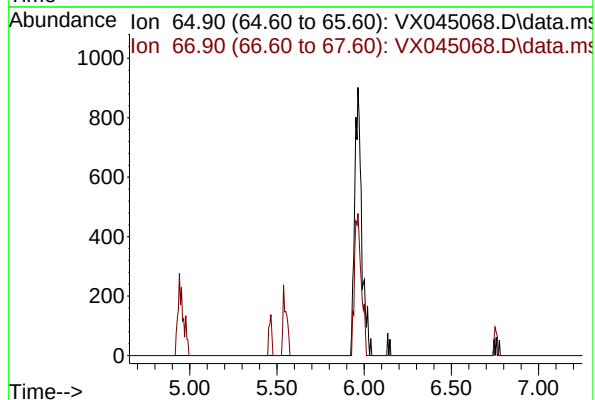
Acq: 28 Feb 2025 01:27

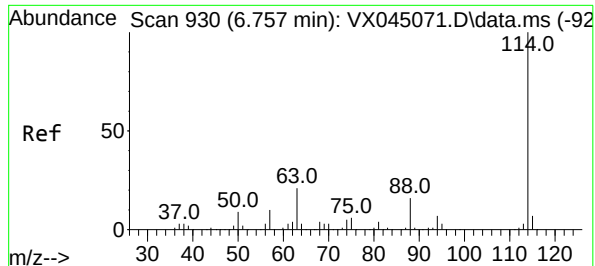
Tgt Ion: 65

Sig Exp Ratio

65 100

67 53.1





#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

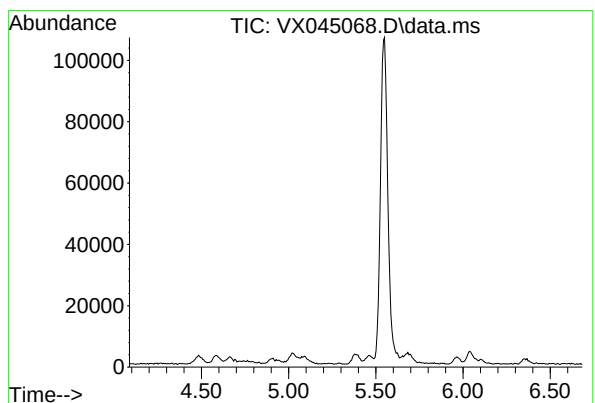
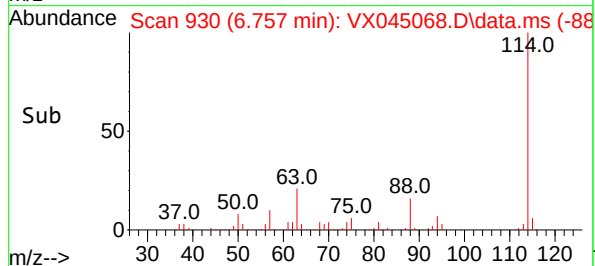
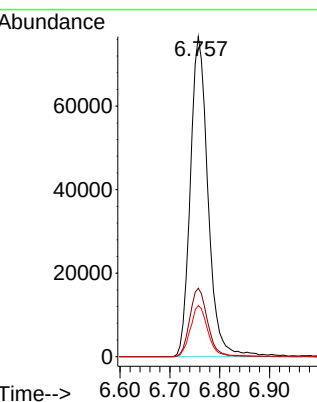
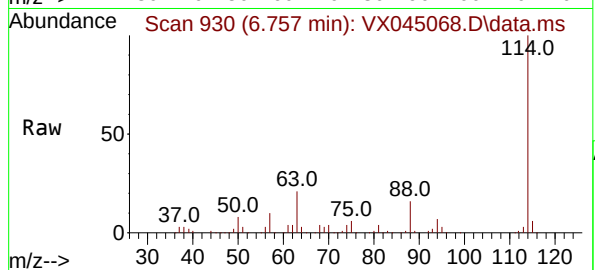
88 16.0 0.0 32.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

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

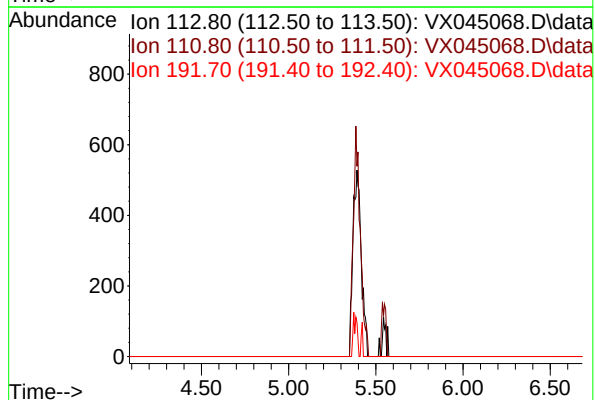
Tgt Ion: 113

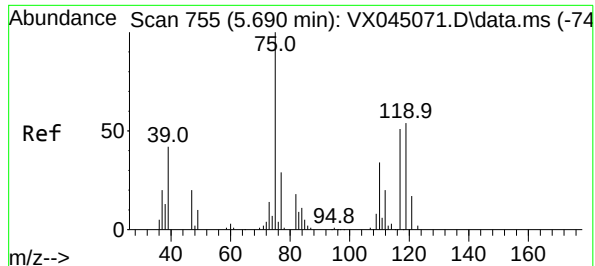
Sig Exp Ratio

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

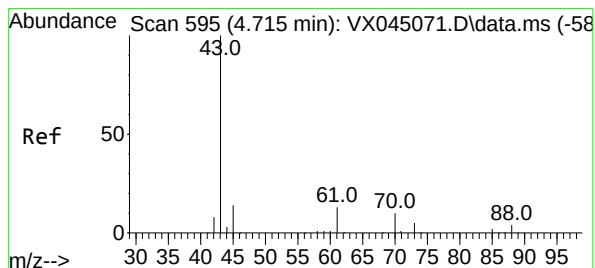
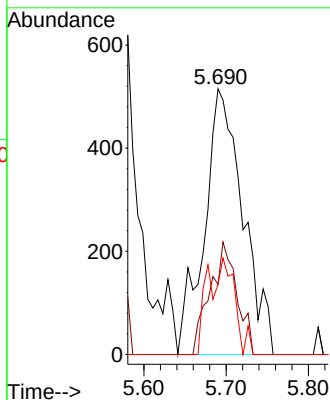
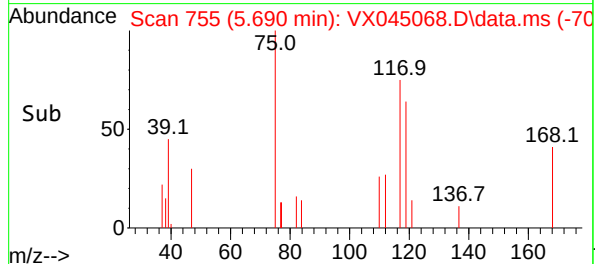
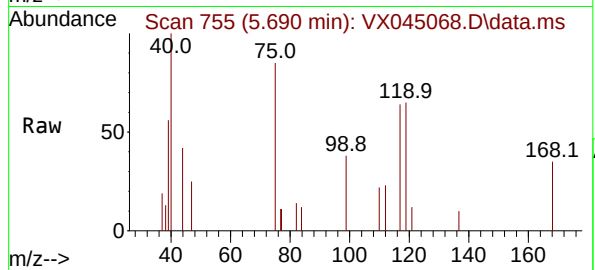
77 16.4 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

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

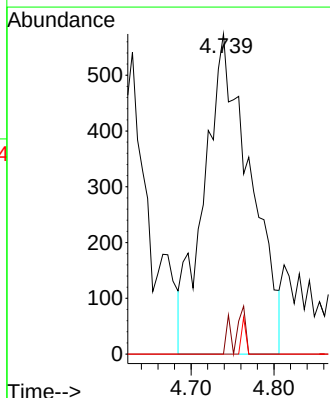
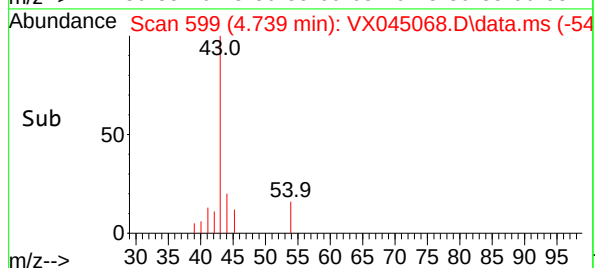
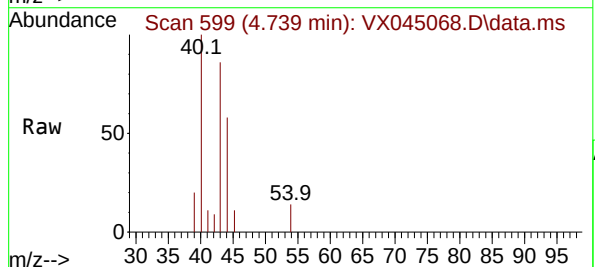
Tgt Ion: 43 Resp: 2223

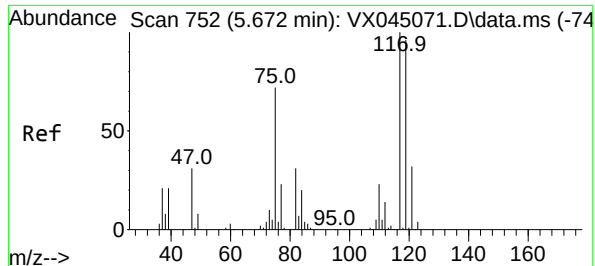
Ion Ratio Lower Upper

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

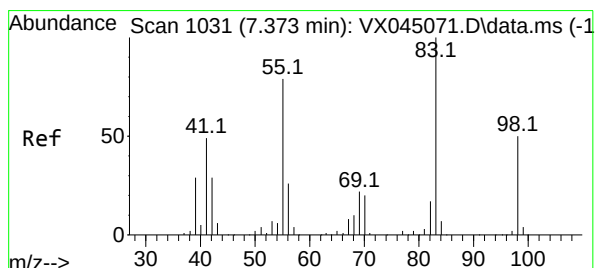
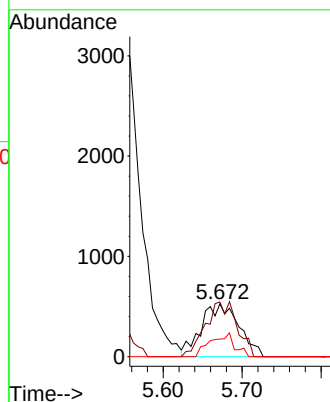
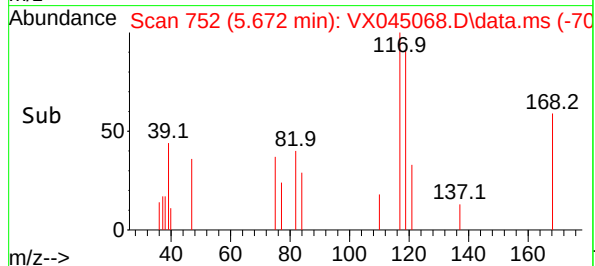
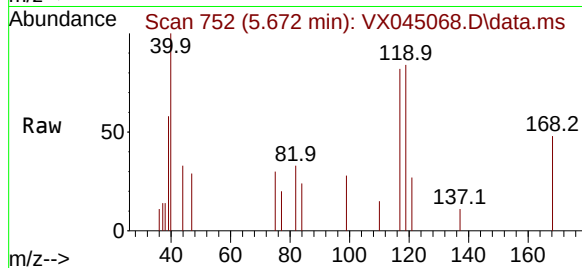
121 33.2 25.5 38.3

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

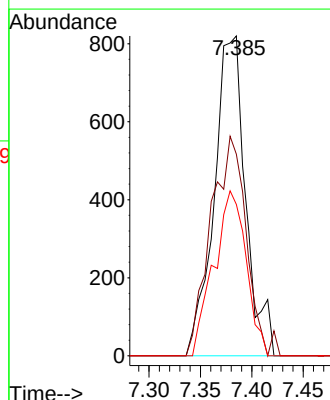
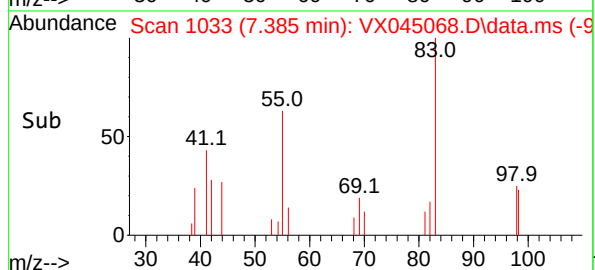
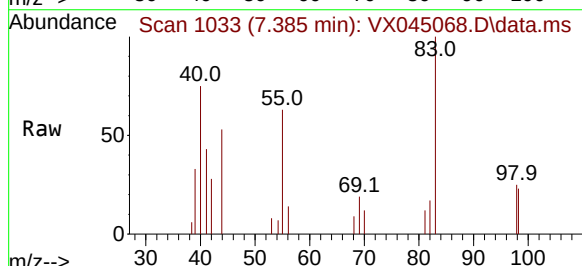
Tgt Ion: 83 Resp: 1750

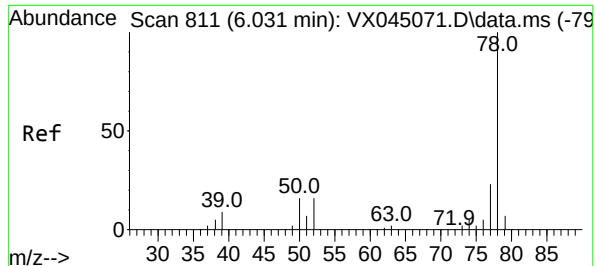
Ion Ratio Lower Upper

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

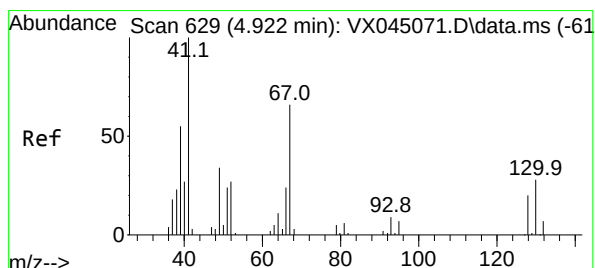
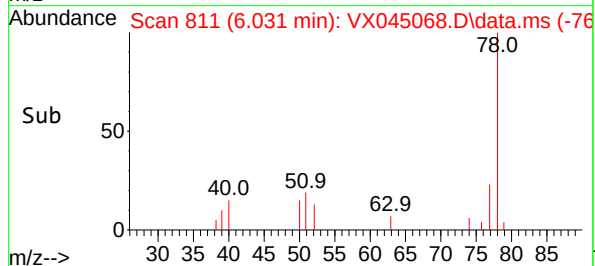
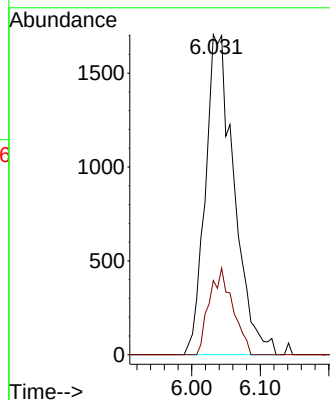
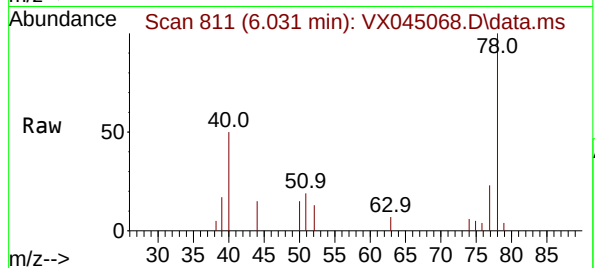
77 23.2 18.8 28.2

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

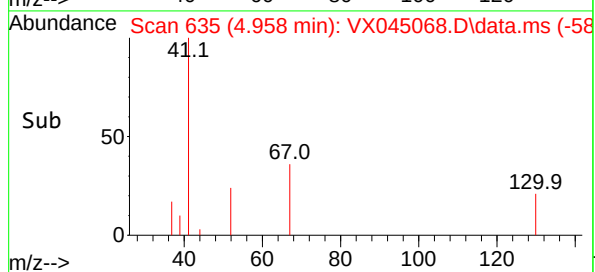
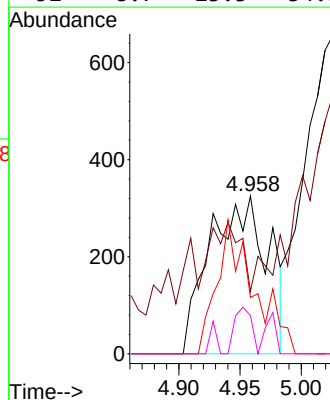
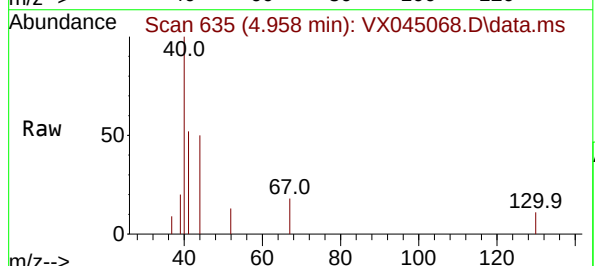
Ion Ratio Lower Upper

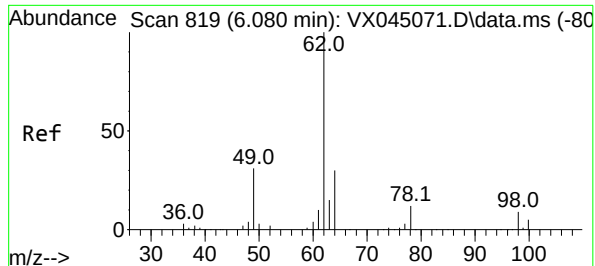
41 100

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 :

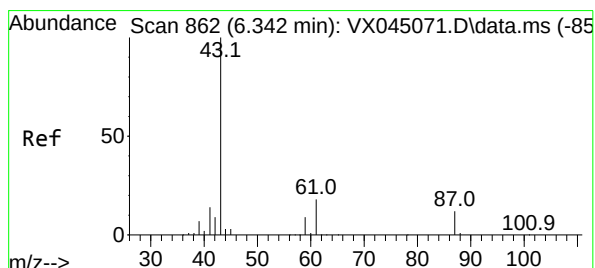
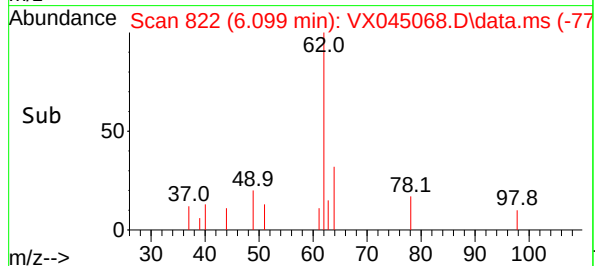
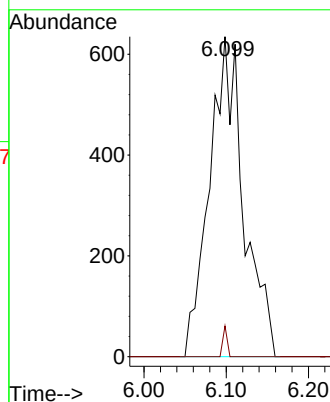
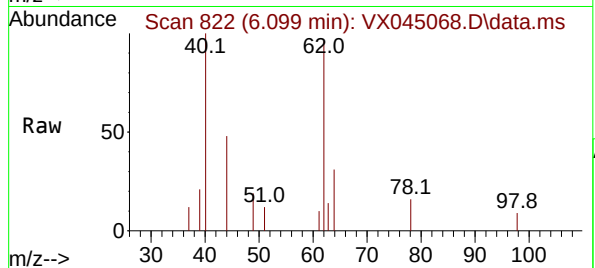
VSTDIC001

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

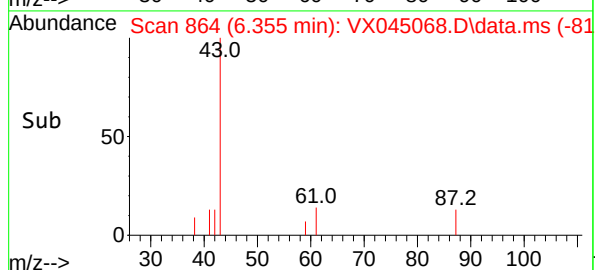
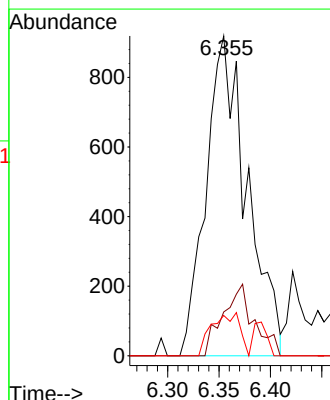
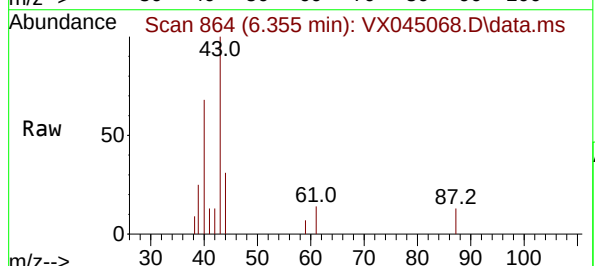
Tgt Ion: 43 Resp: 2545

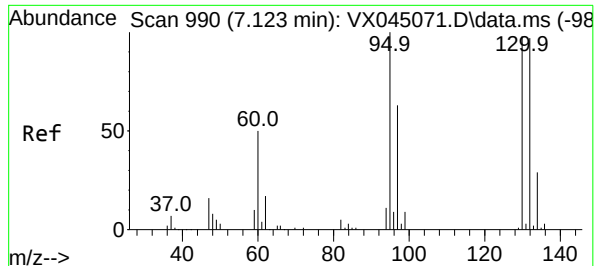
Ion Ratio Lower Upper

43 100

61 17.0 14.9 22.3

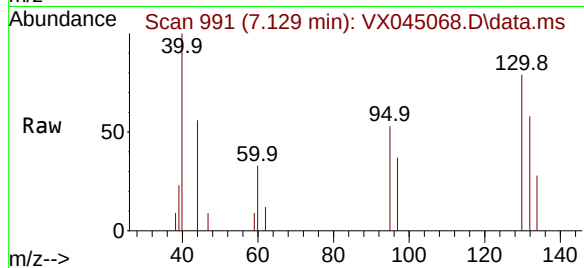
87 9.2 9.4 14.2#





#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

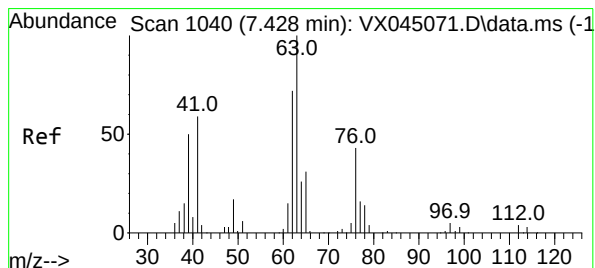
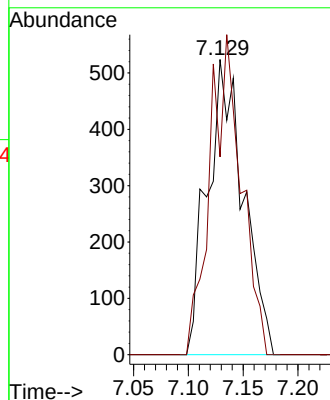
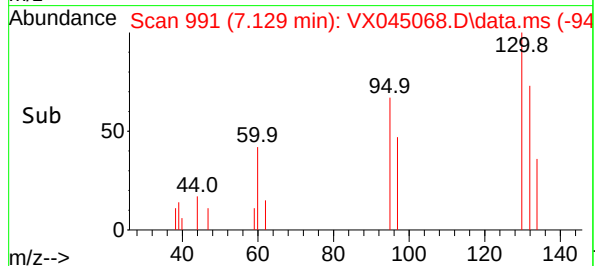
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



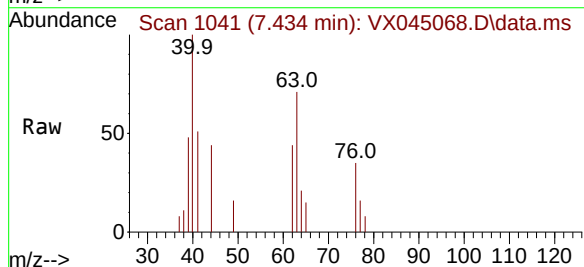
Tgt Ion:130 Resp: 120
Ion Ratio Lower Upper
130 100
95 67.0 0.0 205.0

Manual Integrations
APPROVED

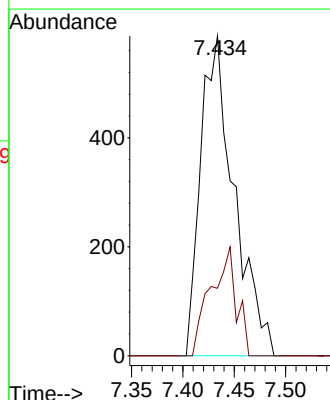
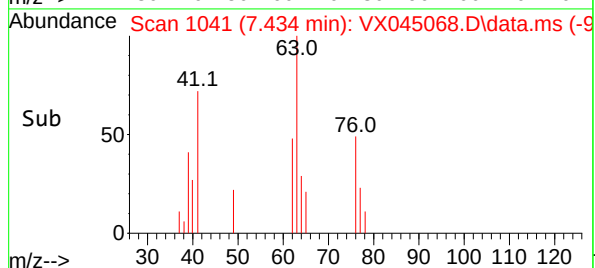
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

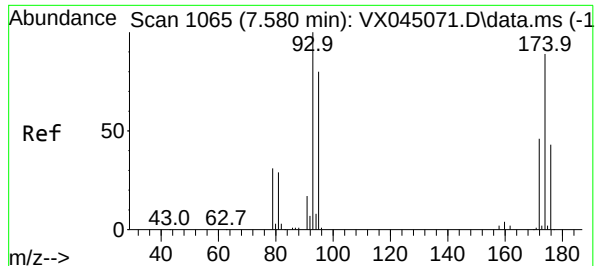


#45
1,2-Dichloropropane
Concen: 0.971 ug/l
RT: 7.434 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27



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# 1066

Delta R.T. 0.006 min

Lab File: VX045068.D

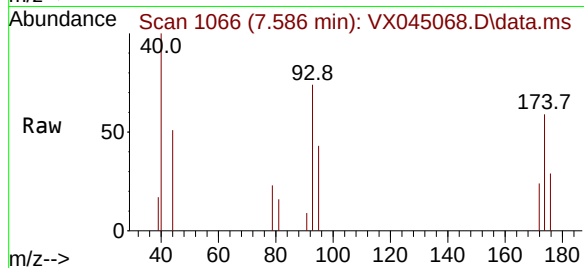
Acq: 28 Feb 2025 01:27

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001



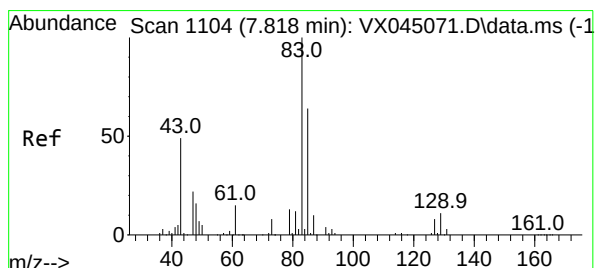
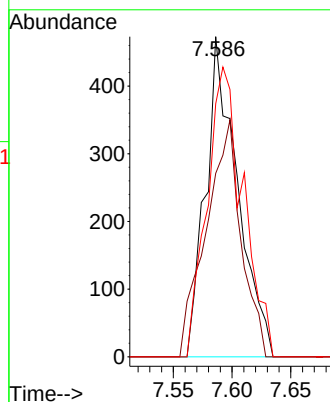
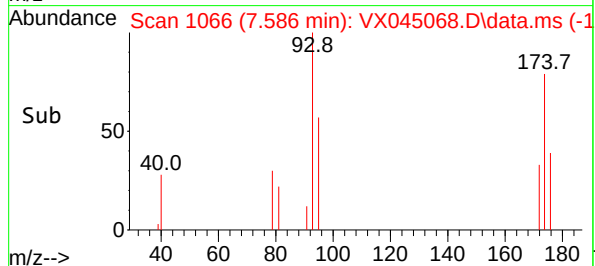
Tgt Ion:	93	Resp:	89
Ion	Ratio	Lower	Upper
93	100		
95	80.9	65.8	98.8
174	102.8	72.2	108.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#47

Bromodichloromethane

Concen: 0.927 ug/l

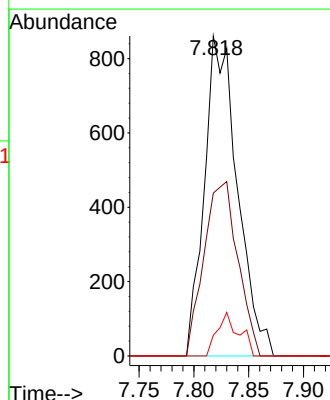
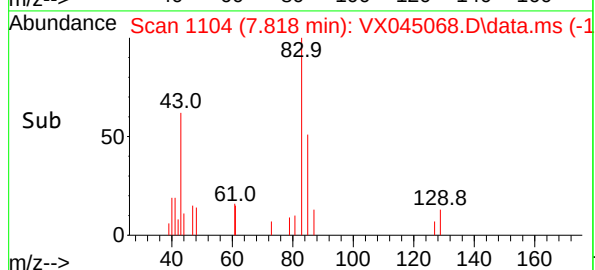
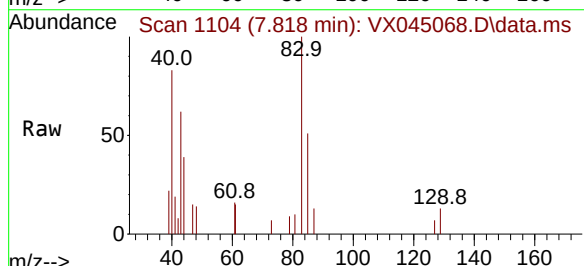
RT: 7.818 min Scan# 1104

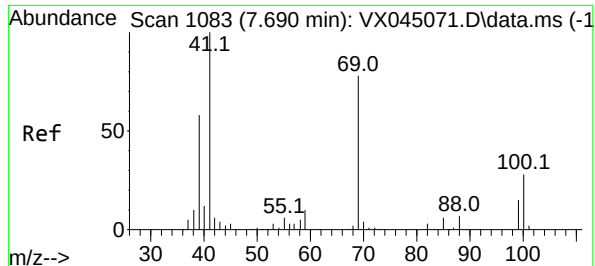
Delta R.T. 0.000 min

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

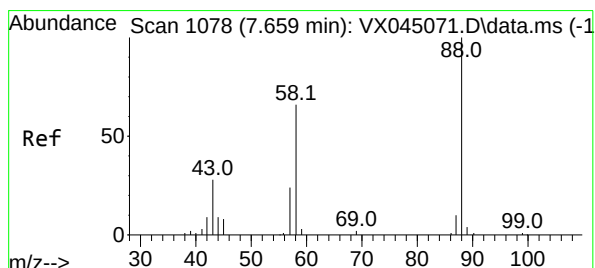
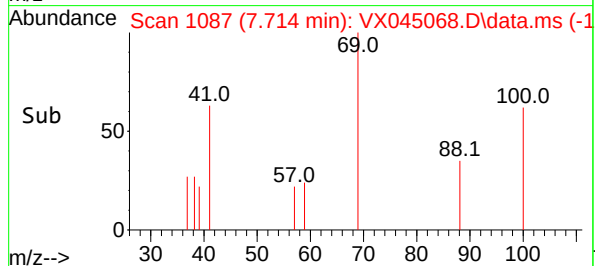
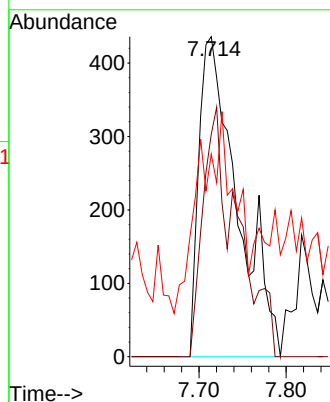
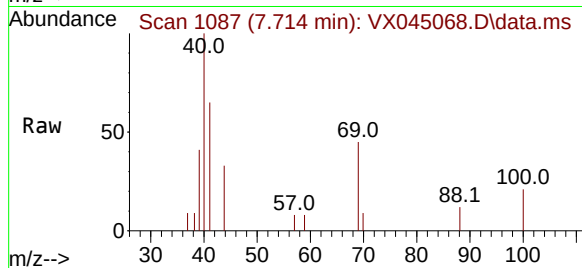
Tgt Ion: 41	Resp: 1328
Ion Ratio	Lower Upper
41	100
69	41.4 63.0 94.6
39	20.7 47.5 71.3

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

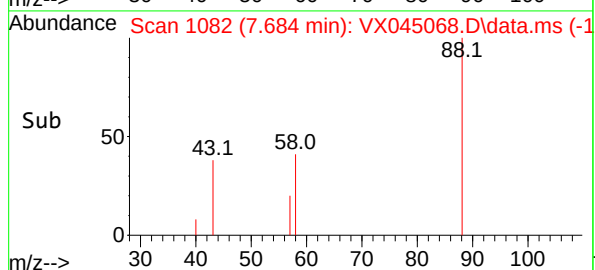
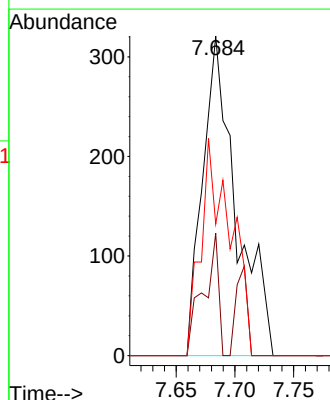
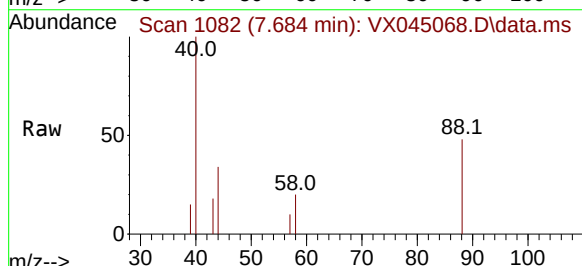
RT: 7.684 min Scan# 1082

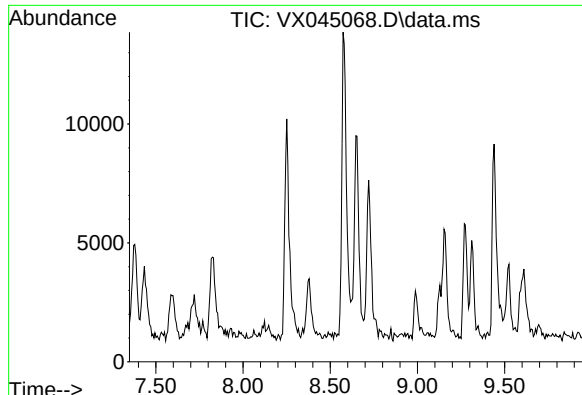
Delta R.T. 0.024 min

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

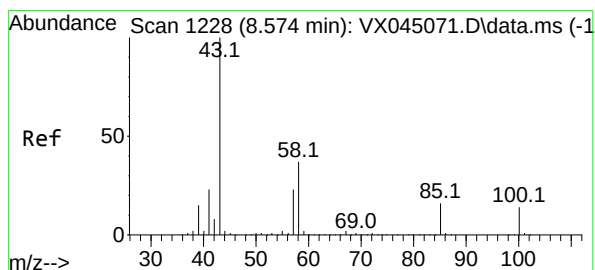
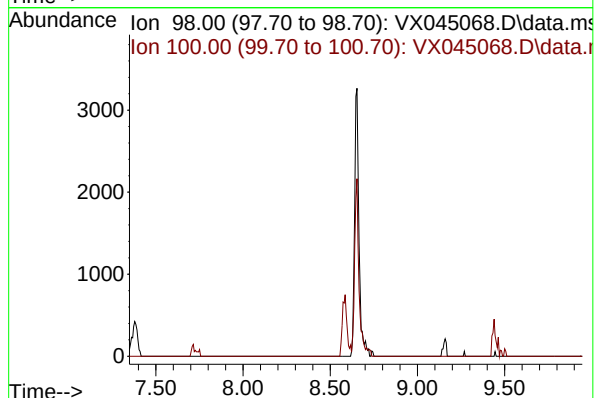
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 98
Sig Exp Ratio
98 100
100 65.0

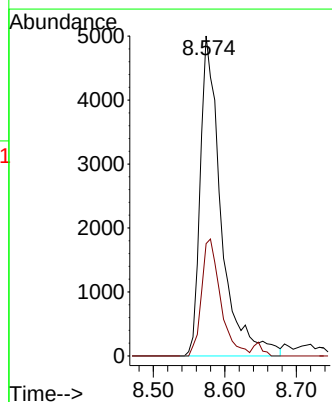
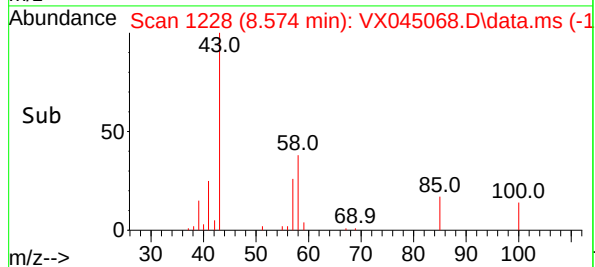
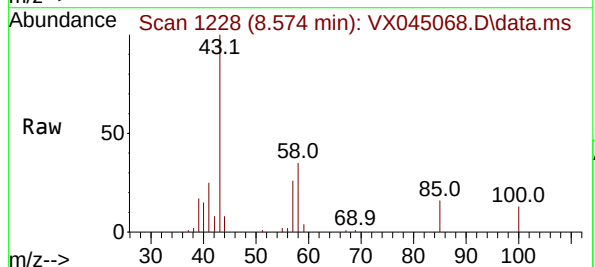
Manual Integrations
APPROVED

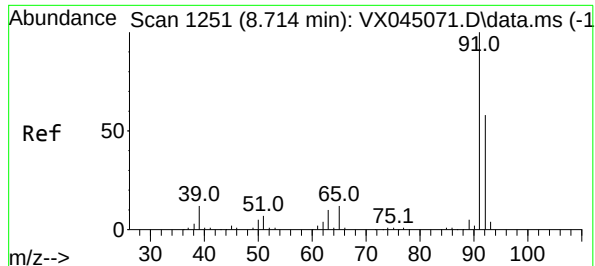
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

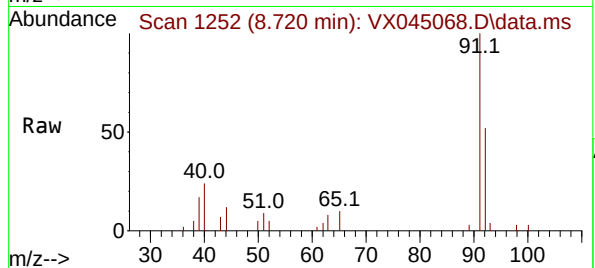
Tgt Ion: 43 Resp: 10091
Ion Ratio Lower Upper
43 100
58 33.5 29.2 43.8





#52
Toluene
Concen: 0.841 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

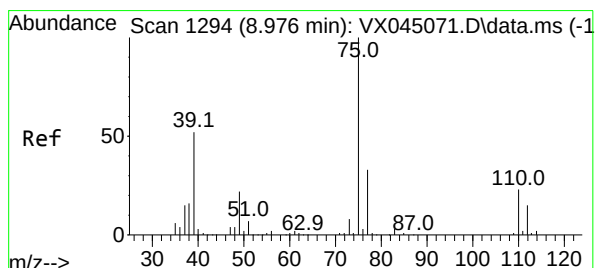
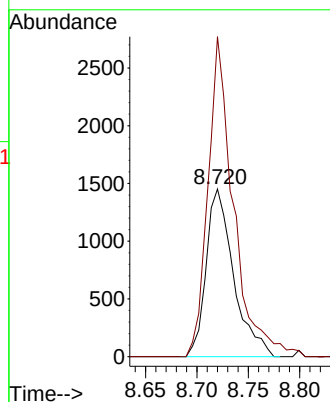
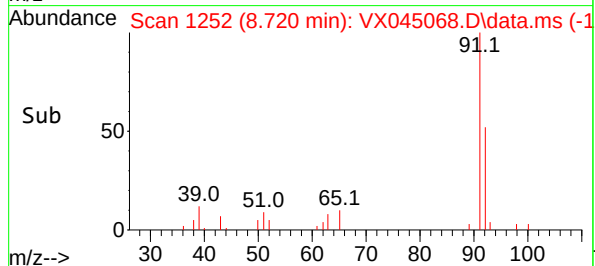
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



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

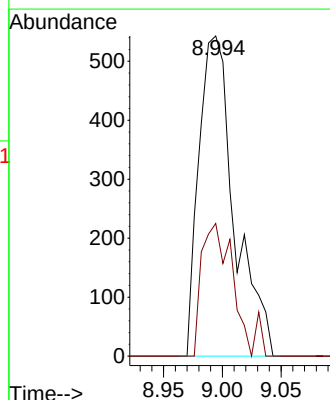
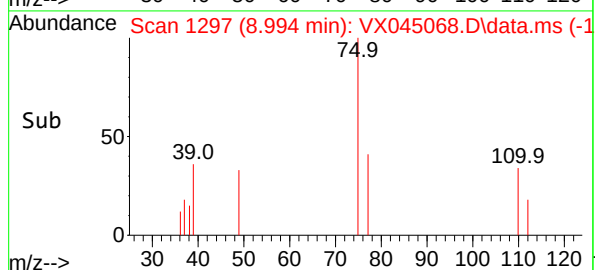
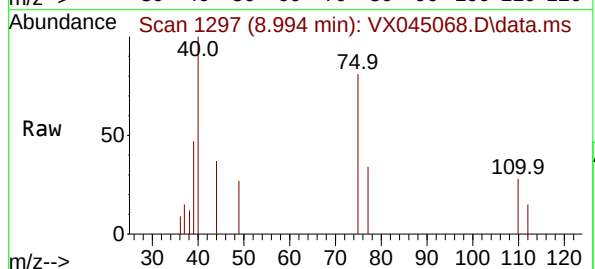
Manual Integrations
APPROVED

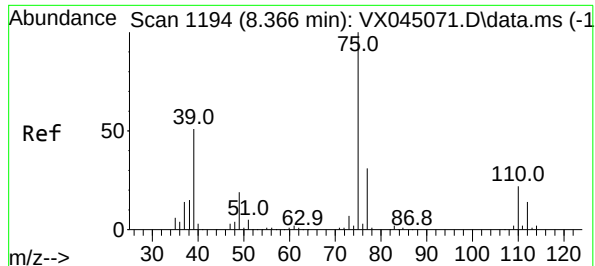
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

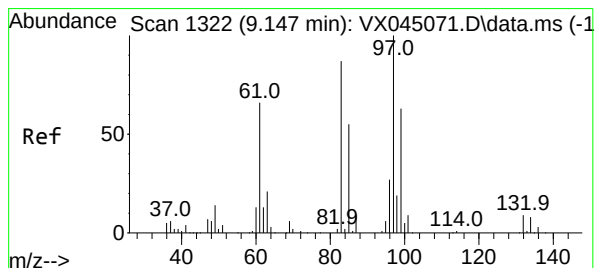
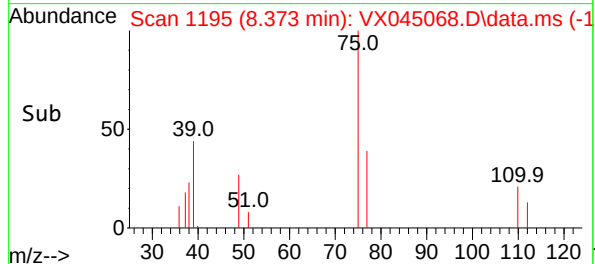
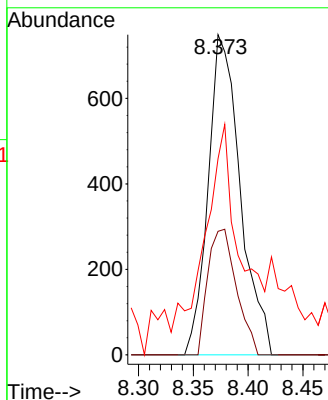
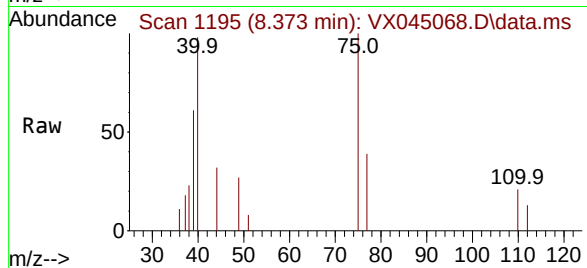
Tgt Ion:	75	Resp:	152
Ion	Ratio	Lower	Upper
75	100		
77	38.6	24.7	37.1
39	45.1	40.7	61.1

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

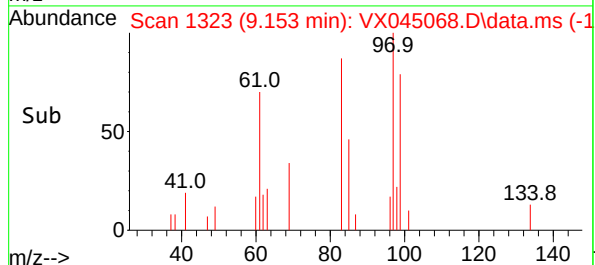
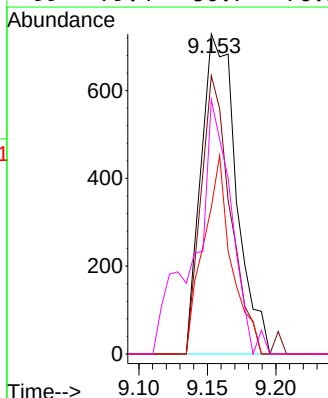
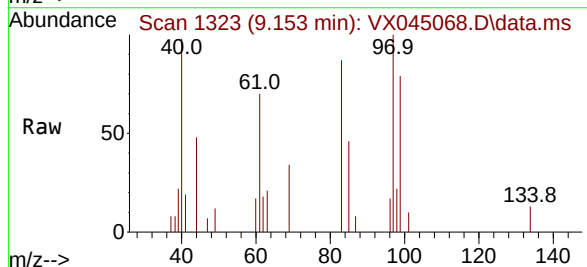
RT: 9.153 min Scan# 1323

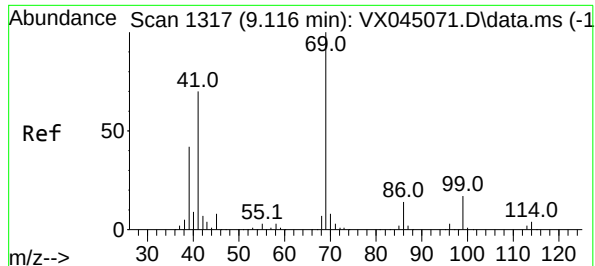
Delta R.T. 0.006 min

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

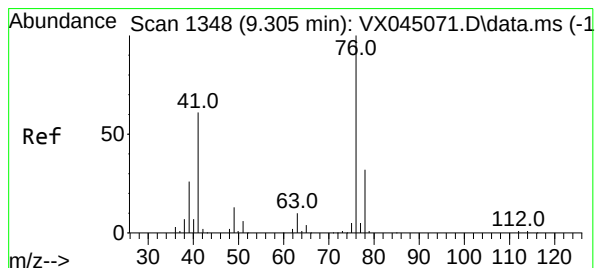
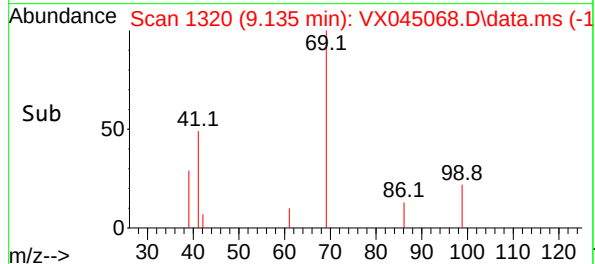
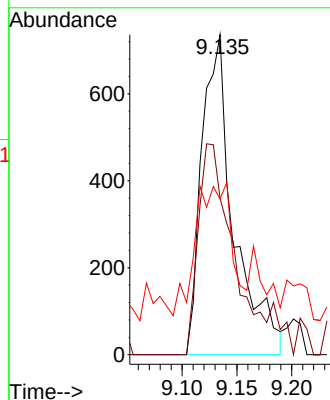
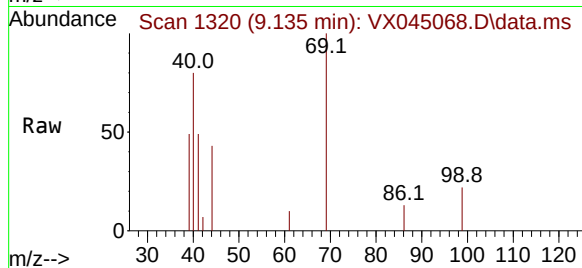
Tgt Ion:	69	Resp:	1494
Ion	Ratio	Lower	Upper
69	100		
41	71.5	57.0	85.4
39	54.6	34.2	51.4

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

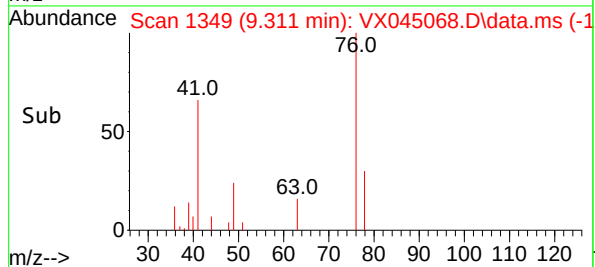
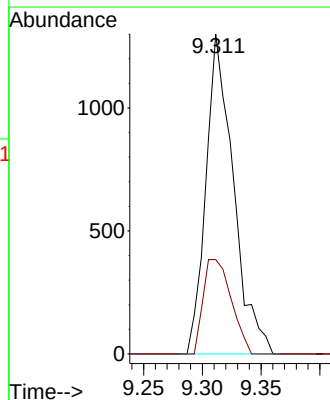
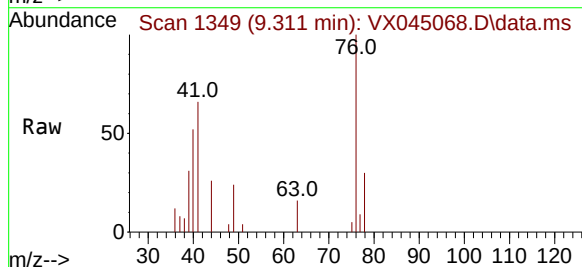
RT: 9.311 min Scan# 1349

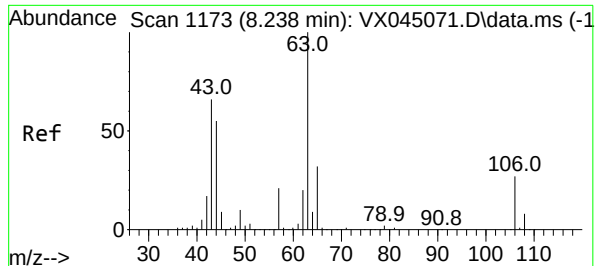
Delta R.T. 0.006 min

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





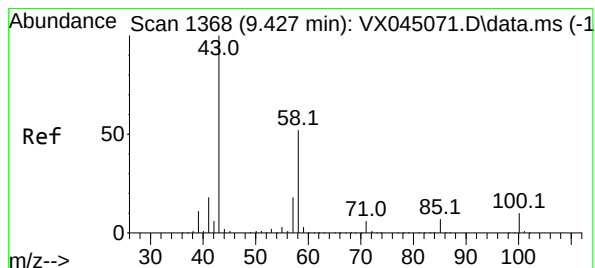
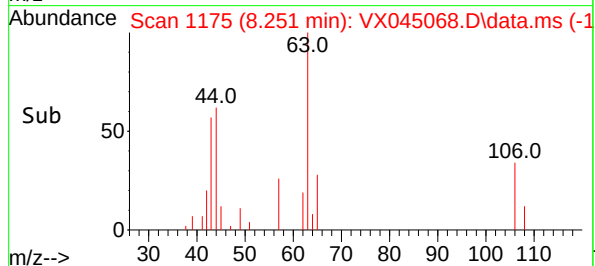
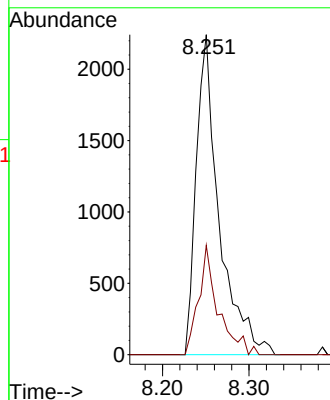
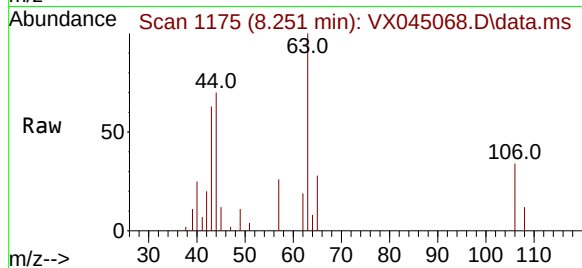
#58
2-Chloroethyl Vinyl ether
Concen: 4.320 ug/l
RT: 8.251 min Scan# 1175
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 411
Ion Ratio Lower Upper
63 100
106 29.2 21.5 32.3

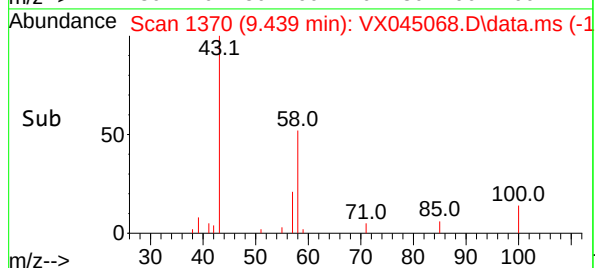
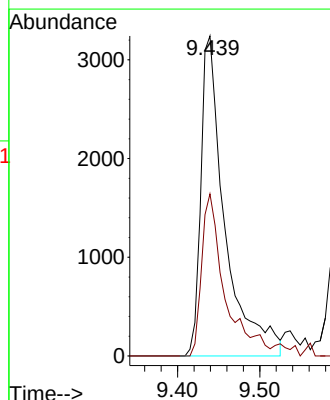
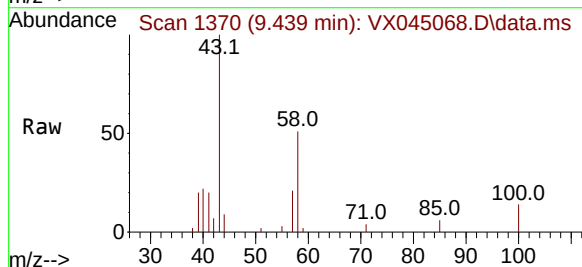
Manual Integrations
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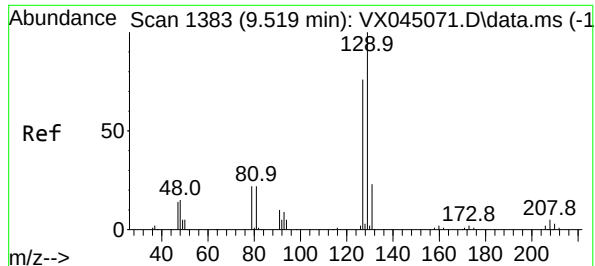
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

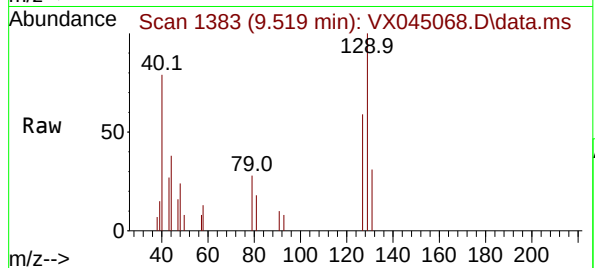
Tgt Ion: 43 Resp: 6582
Ion Ratio Lower Upper
43 100
58 48.7 25.9 77.6





#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

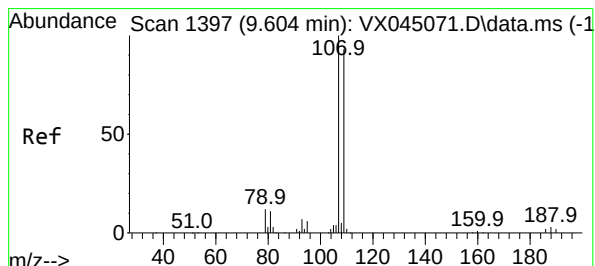
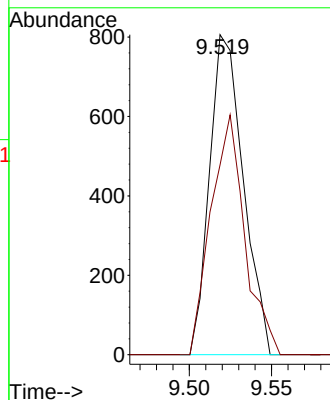
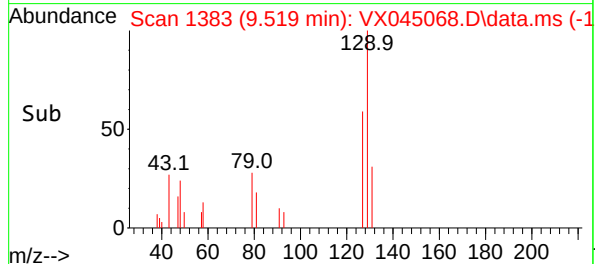
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



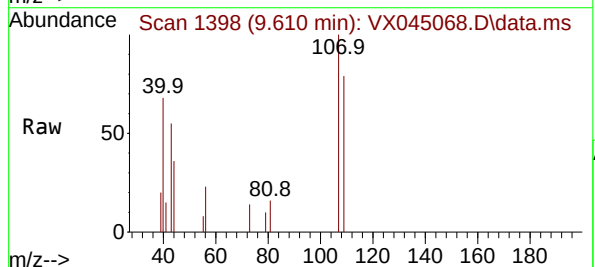
Tgt Ion:129 Resp: 1152
Ion Ratio Lower Upper
129 100
127 75.2 38.5 115.5

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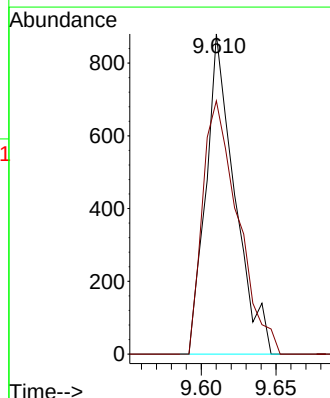
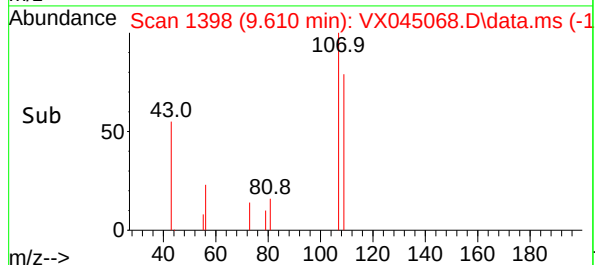
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

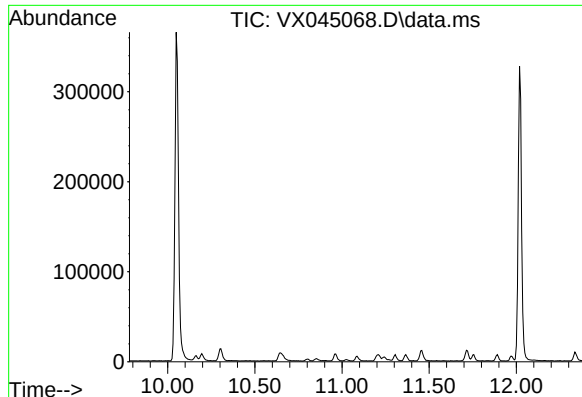


#61
1,2-Dibromoethane
Concen: 0.890 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27



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

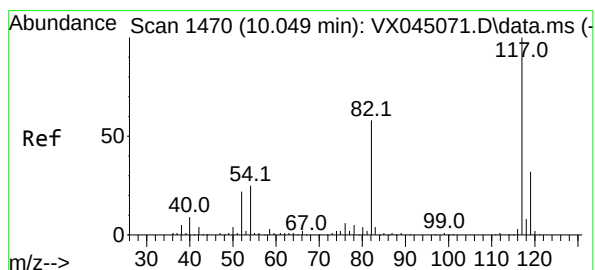
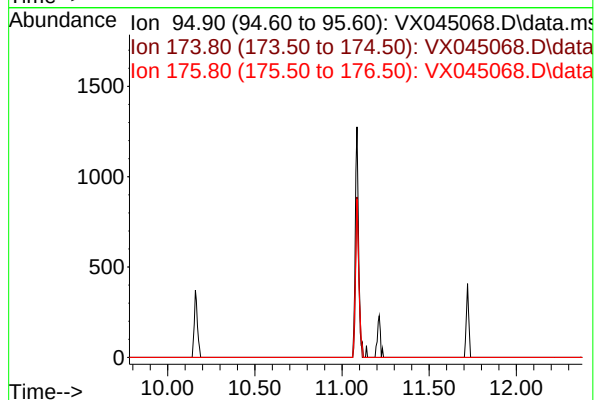
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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

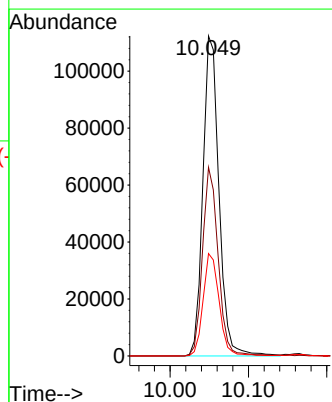
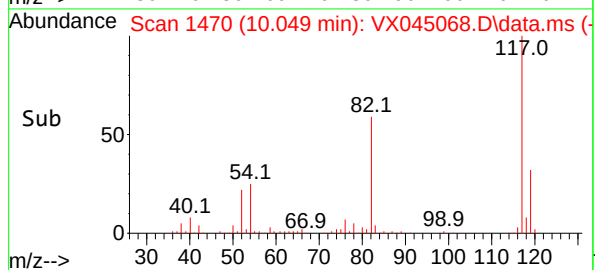
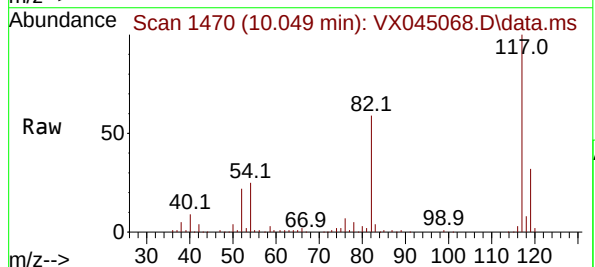
Manual Integrations
APPROVED

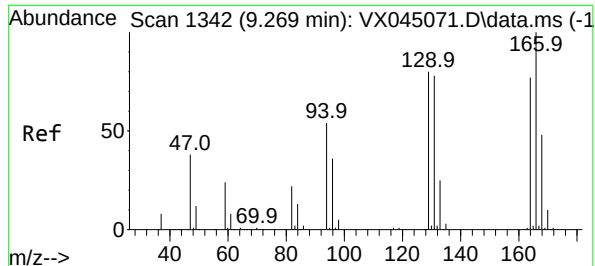
Reviewed By : John Carlone 02/28/2025
Supervised By : Mahesh Dadoda 02/28/2025



#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

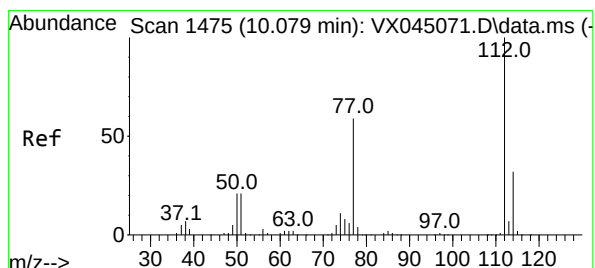
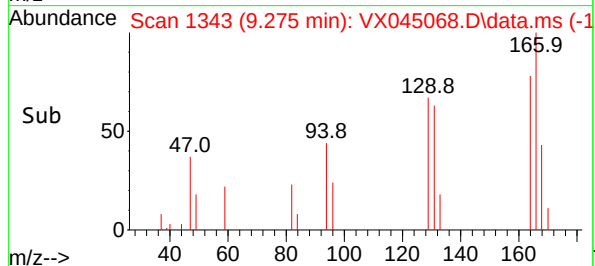
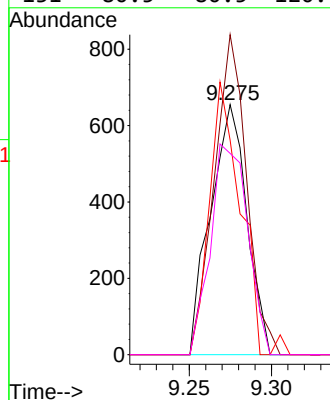
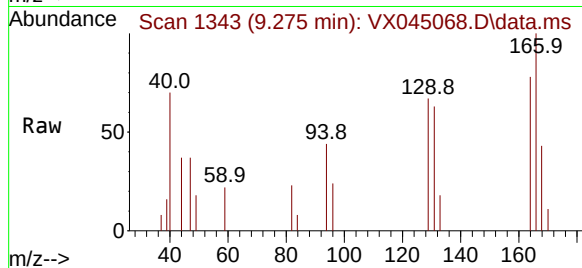
131 80.5 80.5 120.7#

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

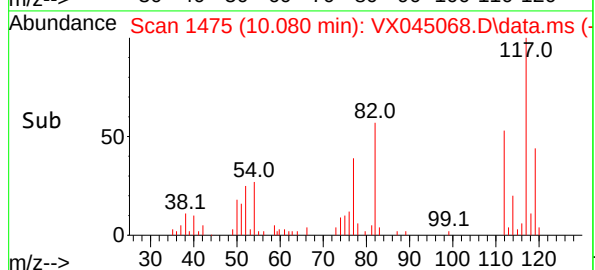
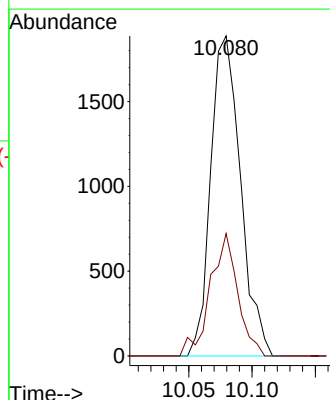
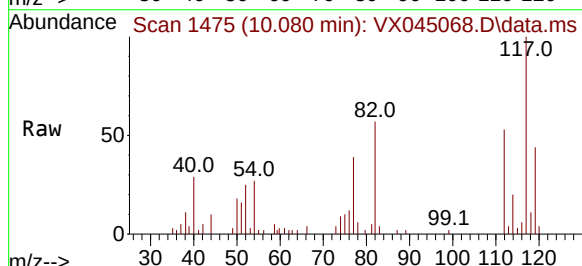
Acq: 28 Feb 2025 01:27

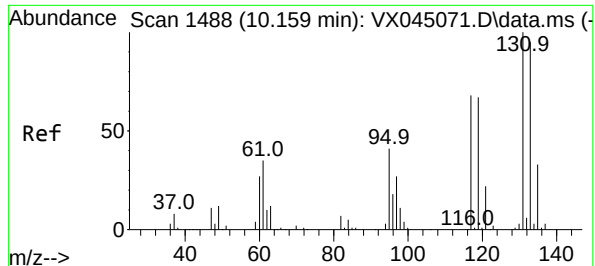
Tgt Ion:112 Resp: 3094

Ion Ratio Lower Upper

112 100

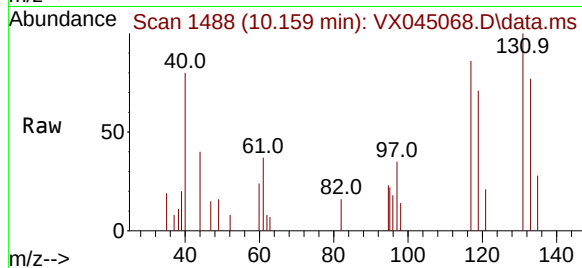
114 38.3 26.0 39.0





#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

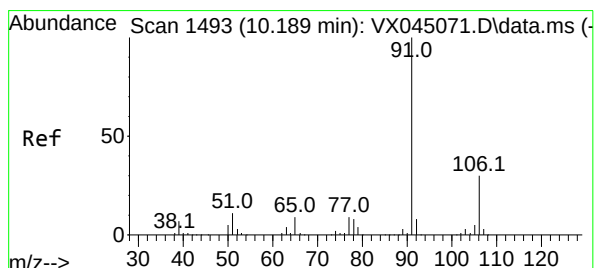
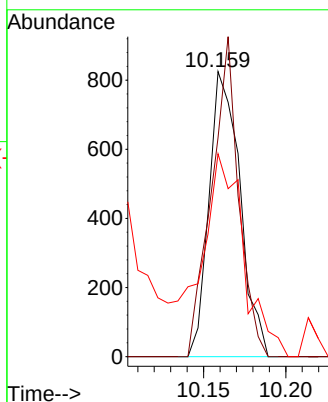
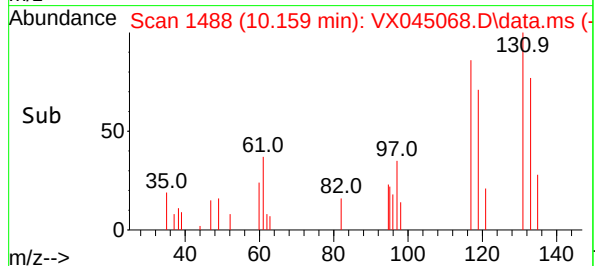
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



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

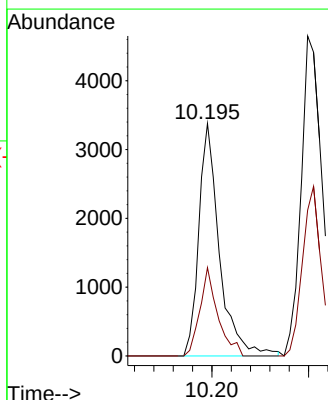
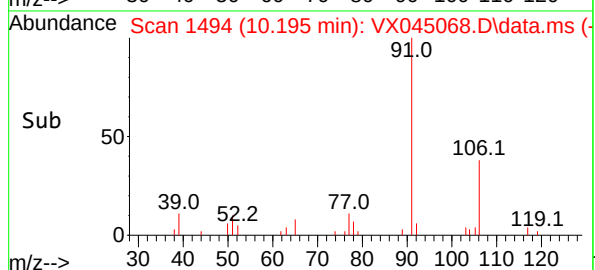
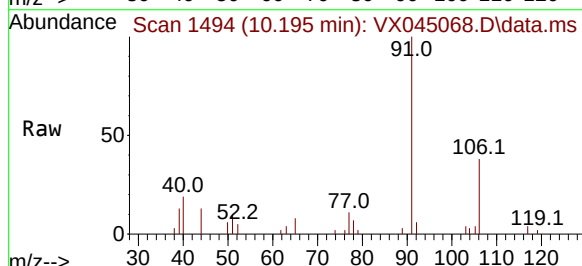
Manual Integrations
APPROVED

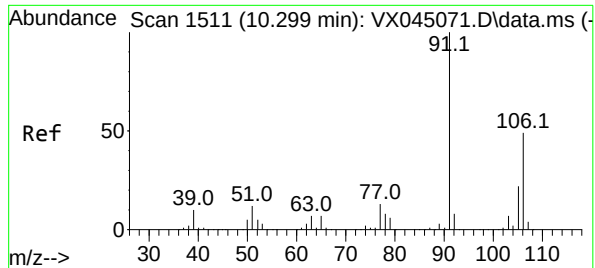
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

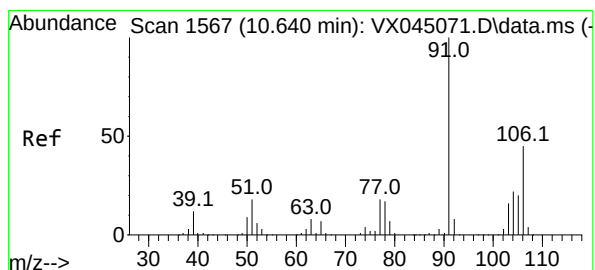
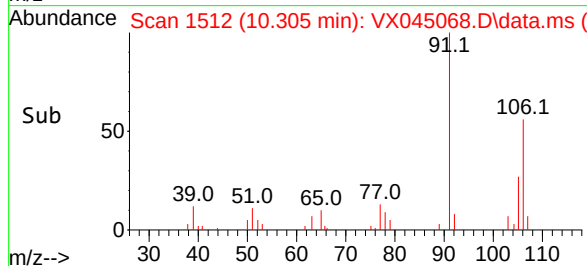
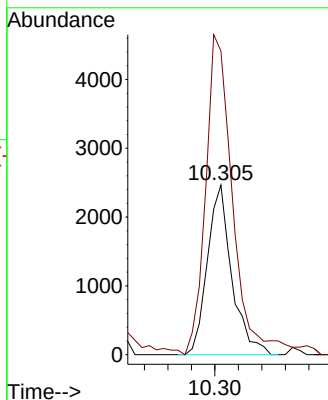
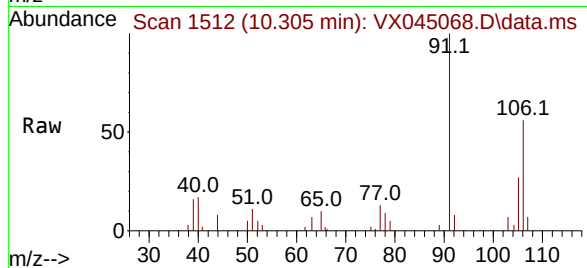
91 211.2 165.4 248.0

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

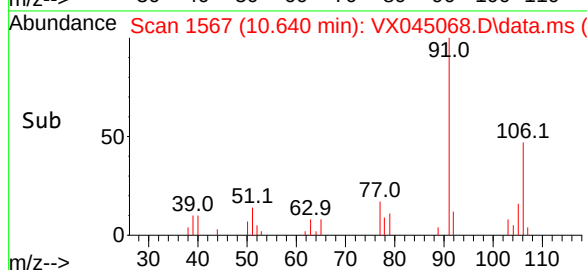
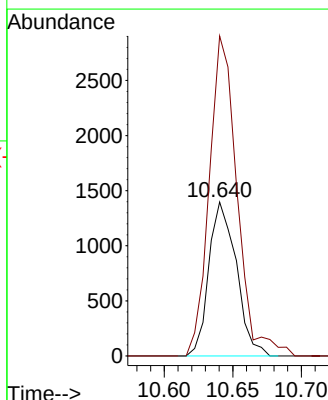
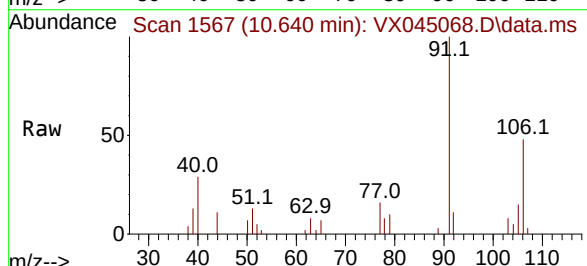
Acq: 28 Feb 2025 01:27

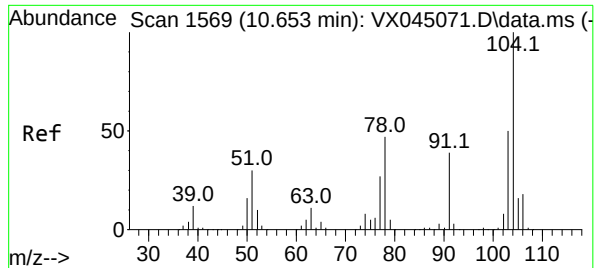
Tgt Ion:106 Resp: 1949

Ion Ratio Lower Upper

106 100

91 211.0 109.9 329.6





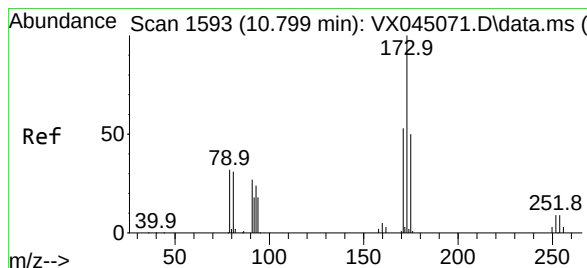
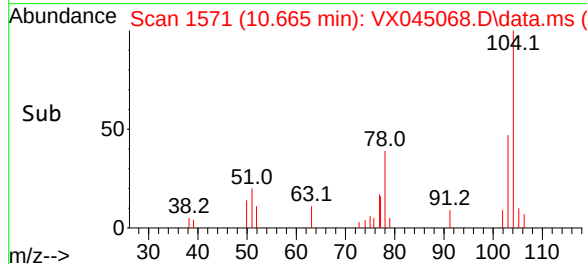
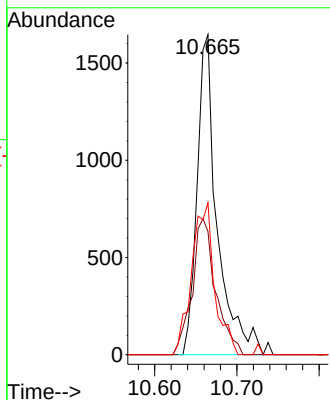
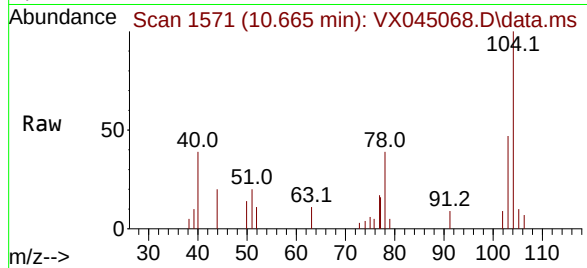
#70
Styrene
Concen: 0.802 ug/l
RT: 10.665 min Scan# 1571
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

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

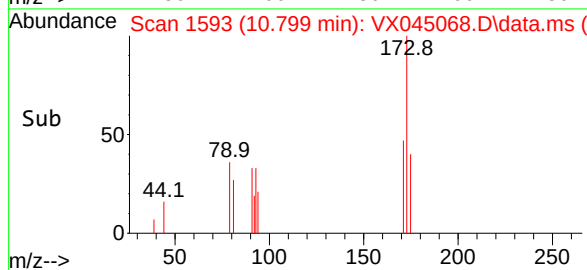
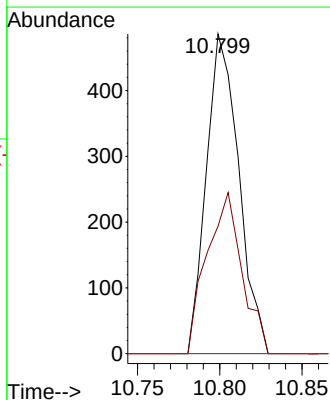
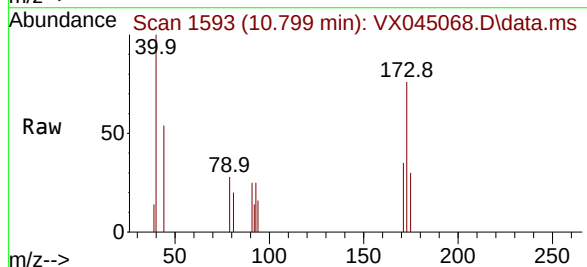
Manual Integrations
APPROVED

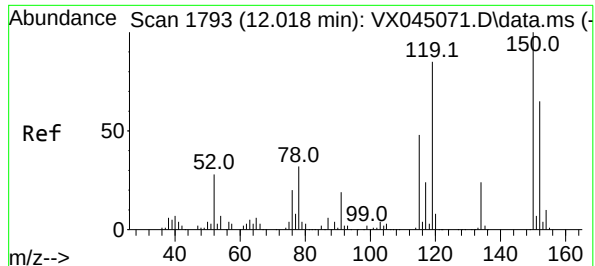
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

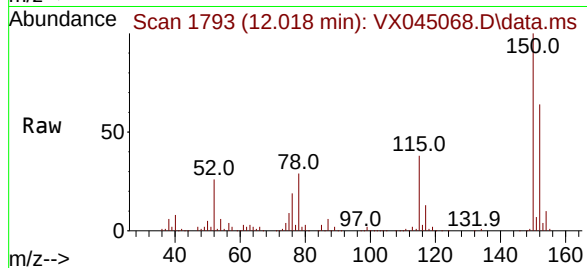
Tgt Ion:173 Resp: 667
Ion Ratio Lower Upper
173 100
175 54.7 24.6 73.6
254 0.0 0.0 0.0





#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

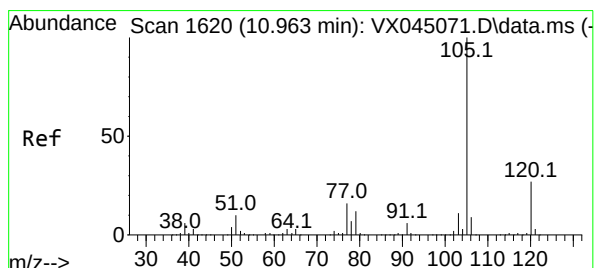
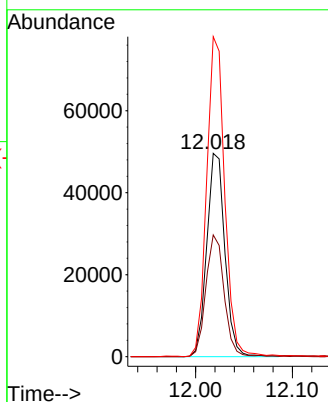
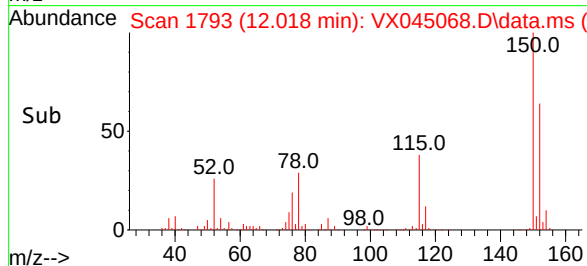
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



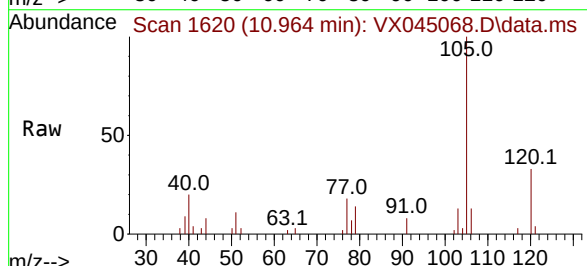
Tgt Ion:152 Resp: 6484
Ion Ratio Lower Upper
152 100
115 60.3 44.2 132.6
150 157.1 0.0 349.0

Manual Integrations
APPROVED

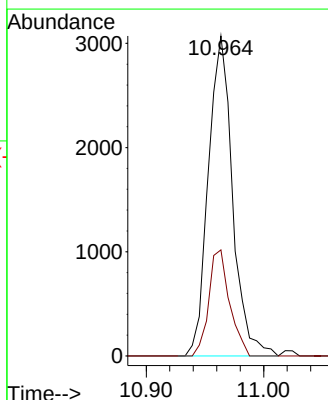
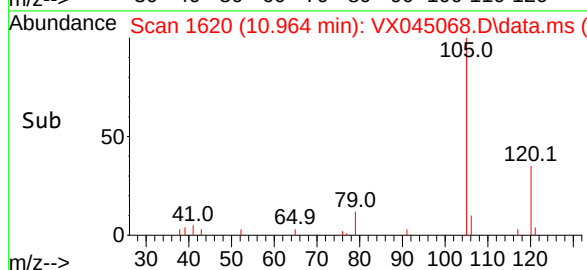
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

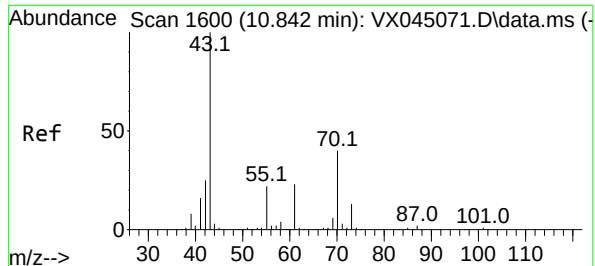


#73
Isopropylbenzene
Concen: 0.858 ug/l
RT: 10.964 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27



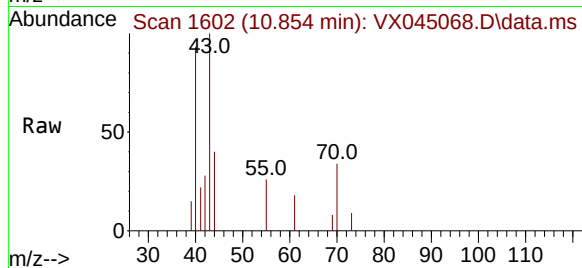
Tgt Ion:105 Resp: 4405
Ion Ratio Lower Upper
105 100
120 28.5 13.2 39.5





#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

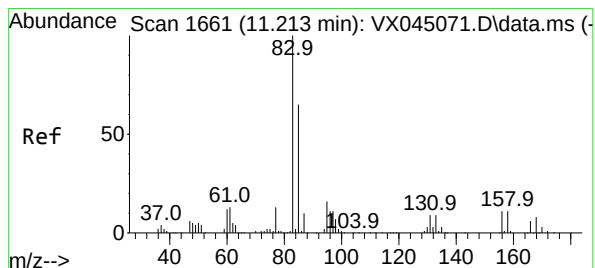
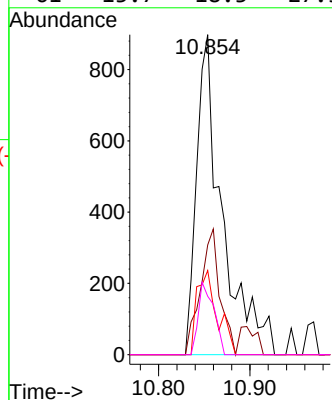
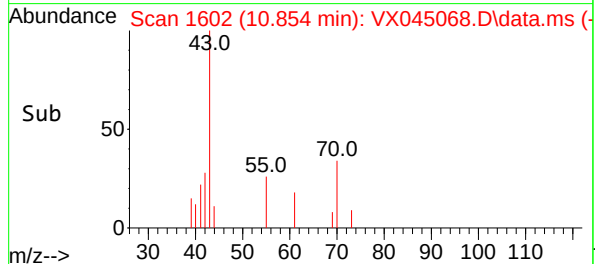
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



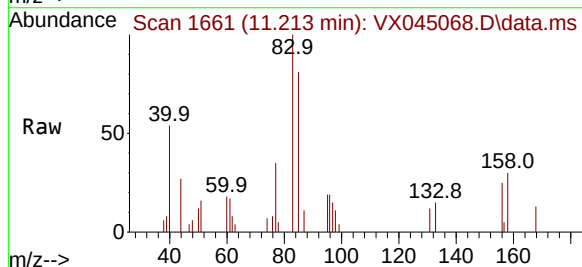
Tgt Ion: 43 Resp: 1750
Ion Ratio Lower Upper
43 100
70 30.1 31.8 47.6
55 20.9 18.3 27.5
61 13.7 18.3 27.5#

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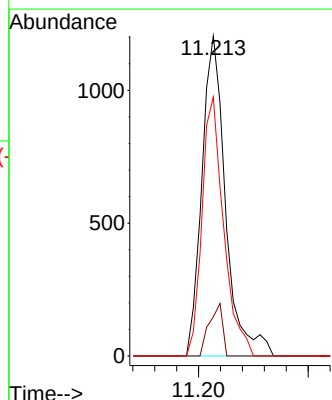
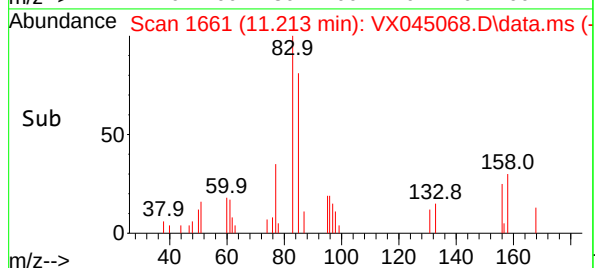
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

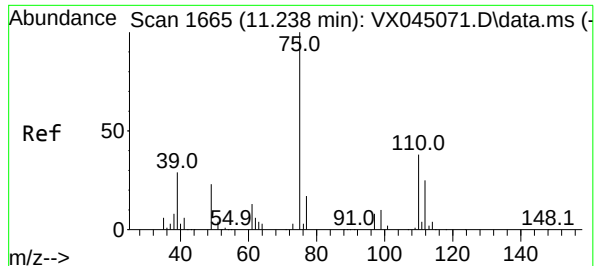


#75
1,1,2,2-Tetrachloroethane
Concen: 0.954 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27



Tgt Ion: 83 Resp: 1809
Ion Ratio Lower Upper
83 100
131 9.2 4.5 13.4
85 73.7 31.7 95.1





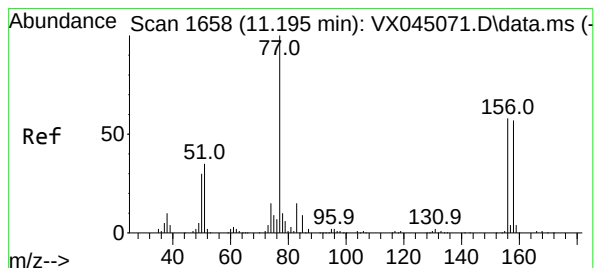
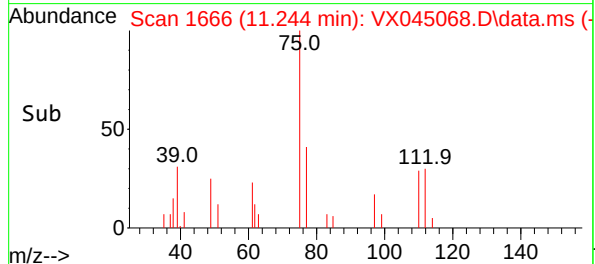
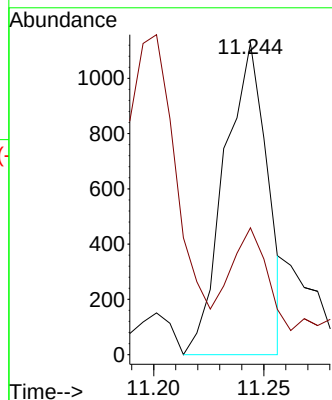
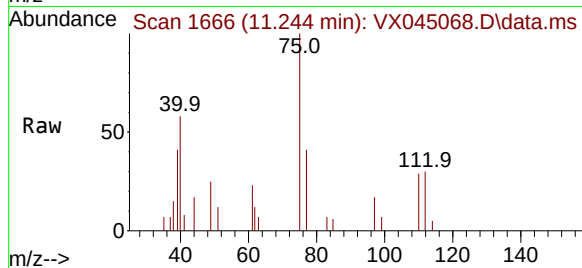
#76
1,2,3-Trichloropropane
Concen: 1.015 ug/l m
RT: 11.244 min Scan# 1666
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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

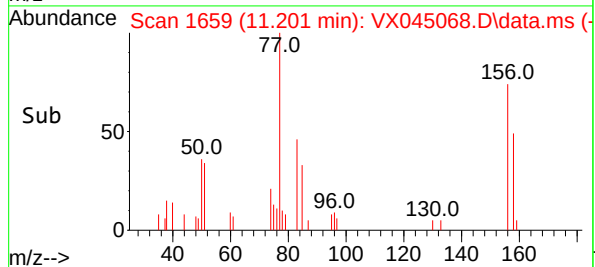
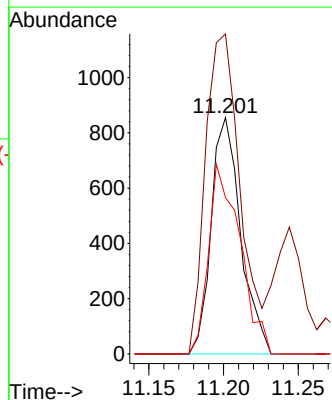
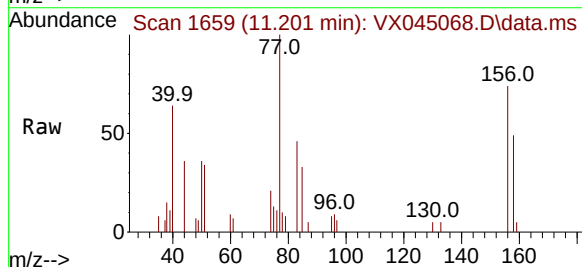
Manual Integrations
APPROVED

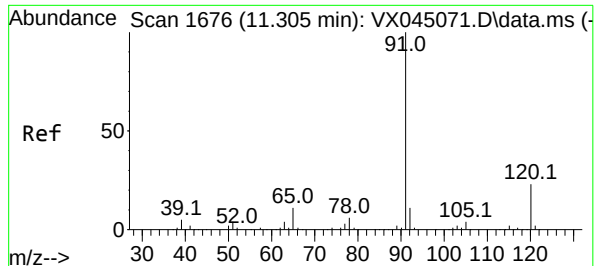
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





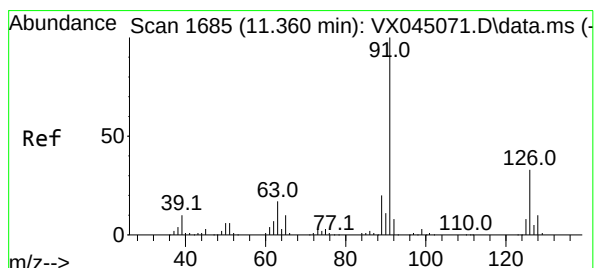
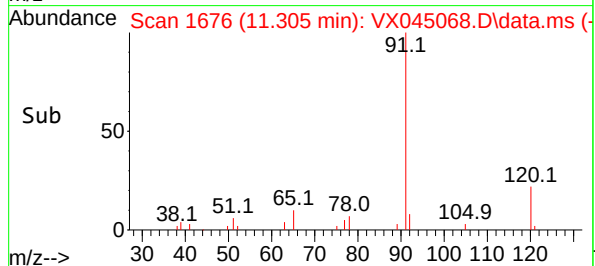
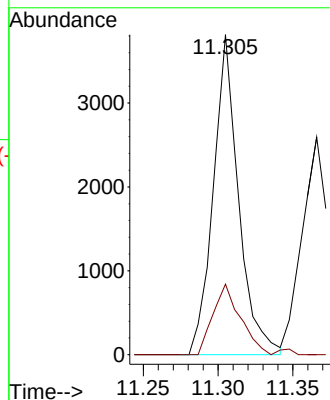
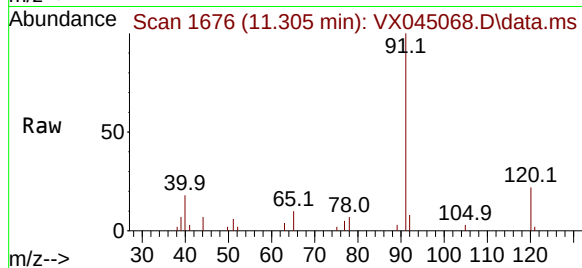
#78
n-propylbenzene
Concen: 0.773 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

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

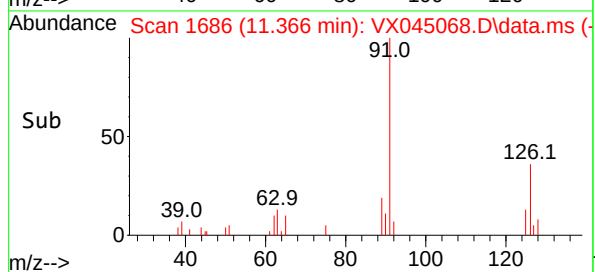
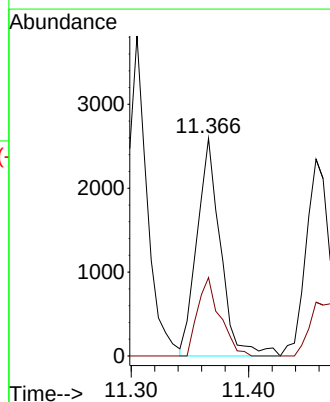
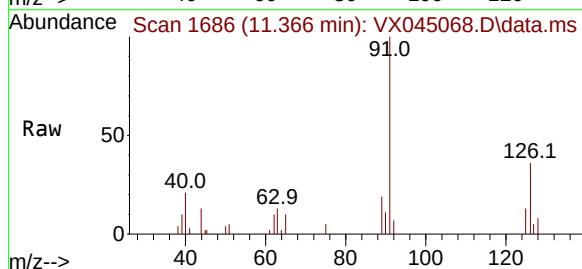
Manual Integrations
APPROVED

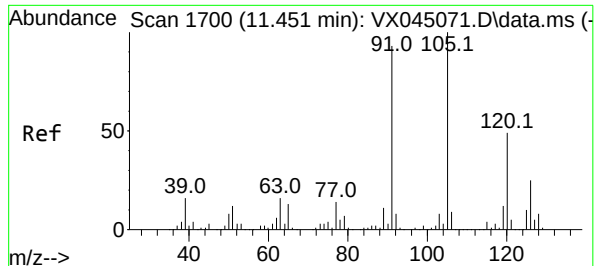
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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 :

VSTDIC001

Tgt Ion:105 Resp: 3380

Ion Ratio Lower Upper

105 100

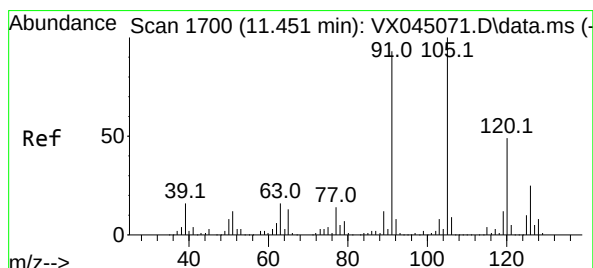
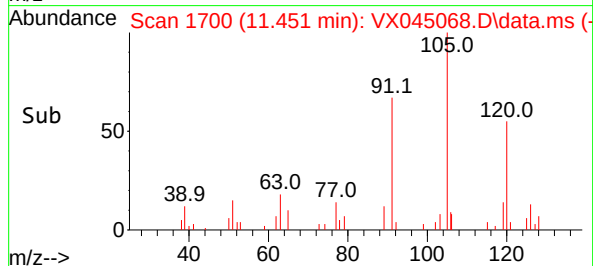
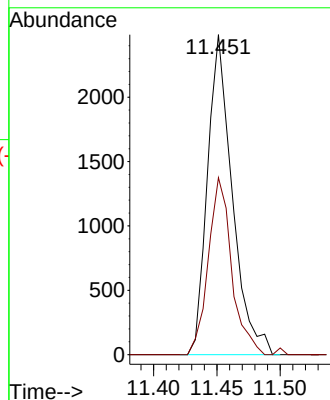
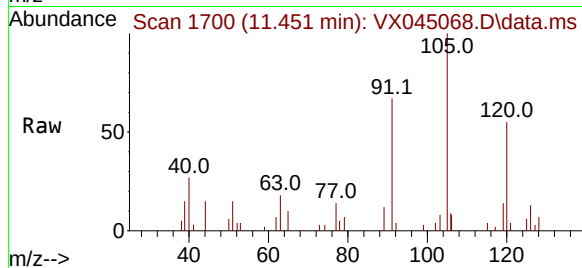
120 52.2 24.1 72.2

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

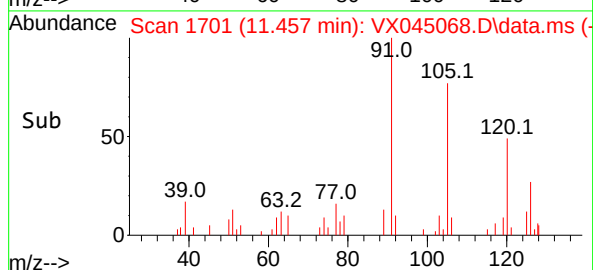
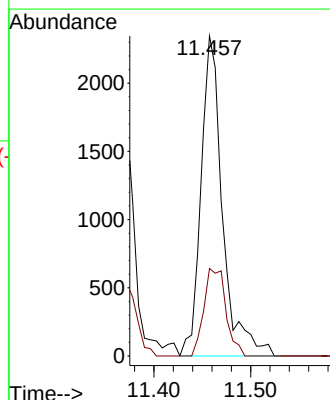
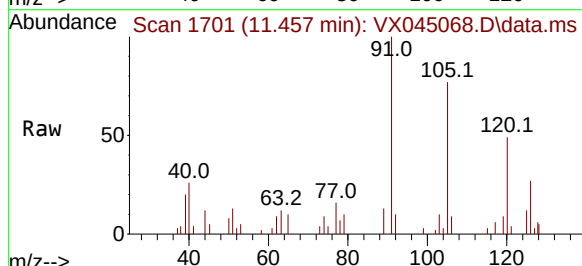
Acq: 28 Feb 2025 01:27

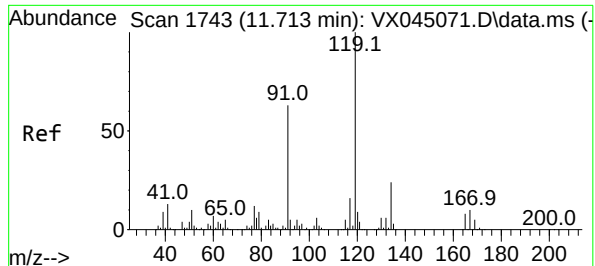
Tgt Ion: 91 Resp: 3631

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

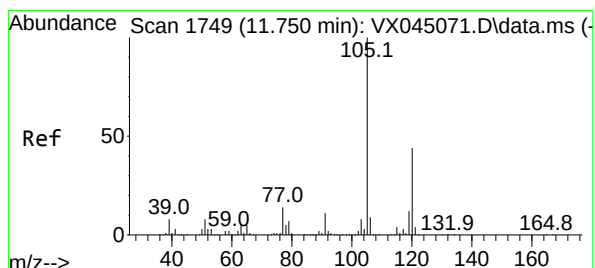
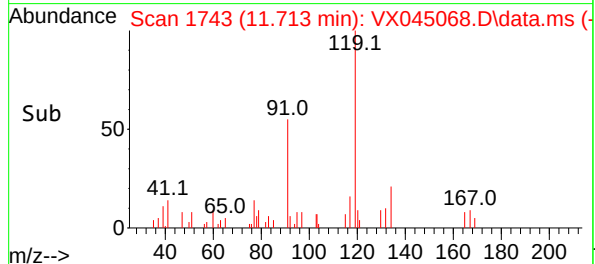
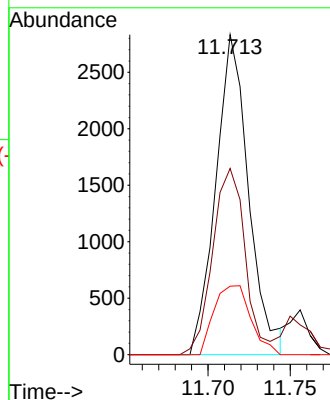
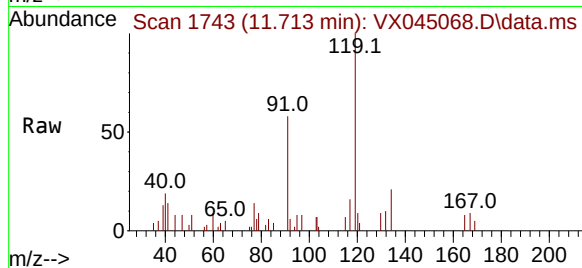
Tgt Ion:	119	Resp:	3928
Ion	Ratio	Lower	Upper
119	100		
91	57.7	30.7	92.1
134	24.2	11.7	35.0

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

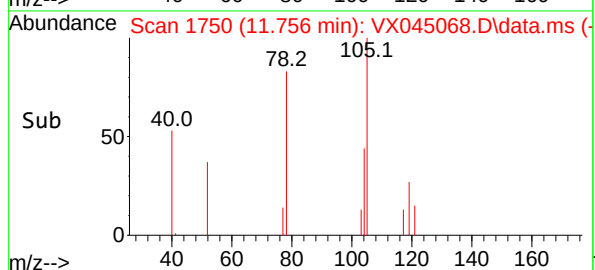
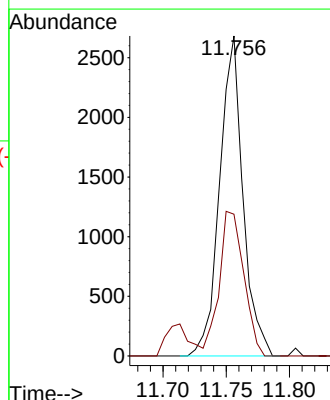
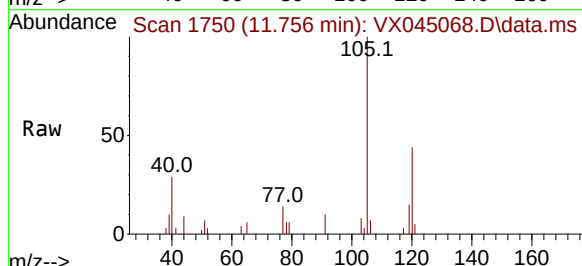
RT: 11.756 min Scan# 1750

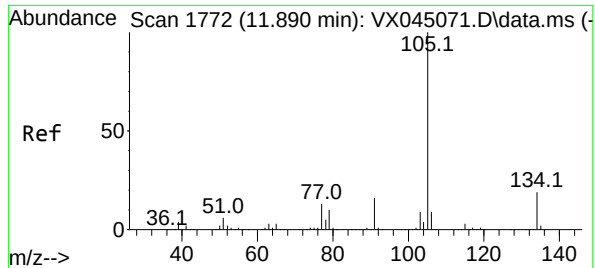
Delta R.T. 0.006 min

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





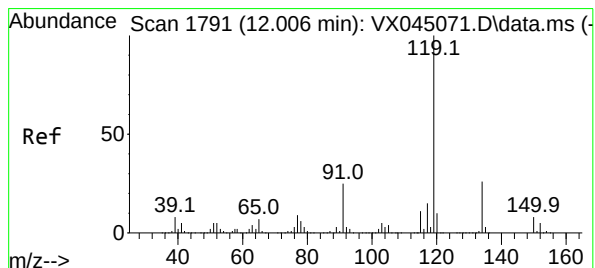
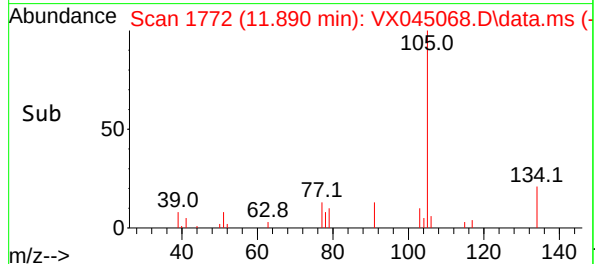
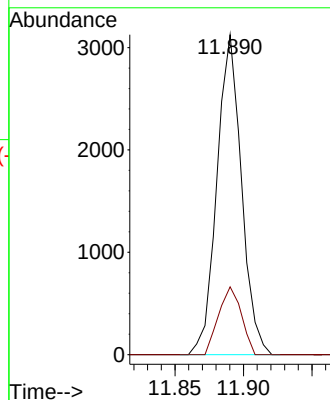
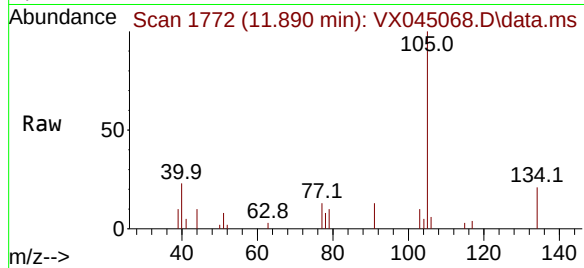
#85
sec-Butylbenzene
Concen: 0.752 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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

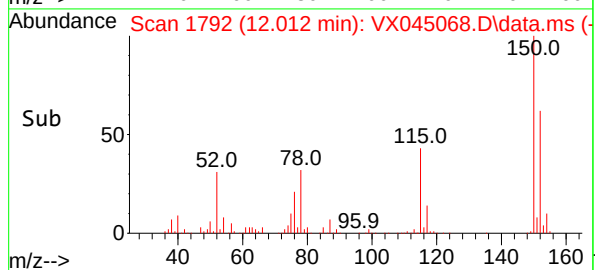
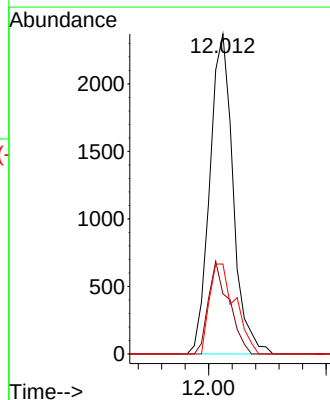
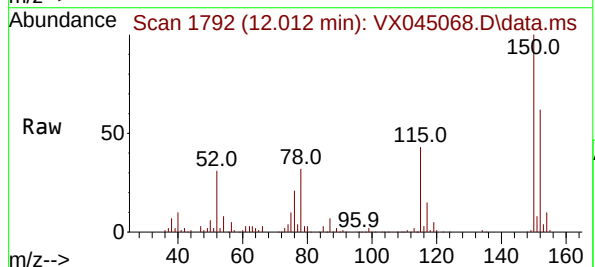
Manual Integrations
APPROVED

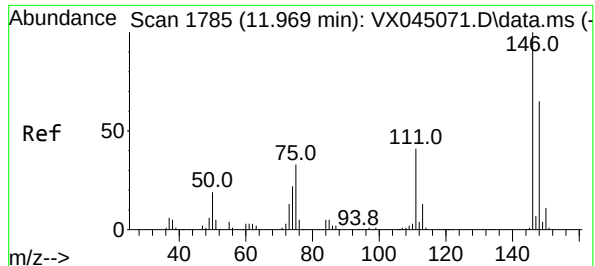
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

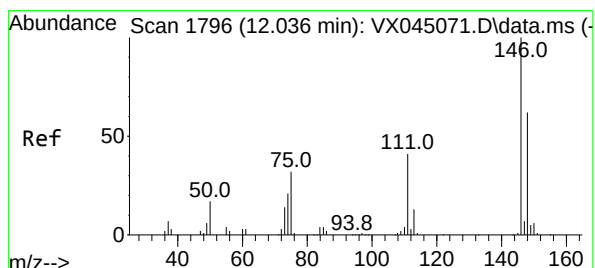
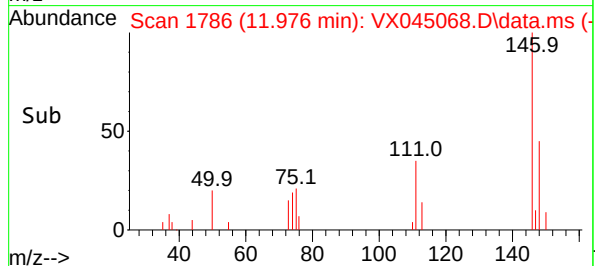
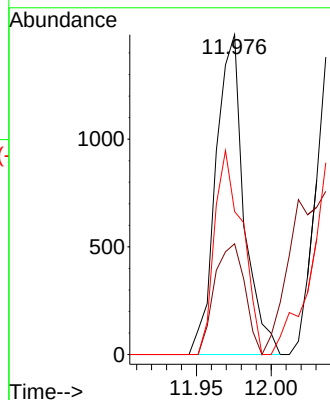
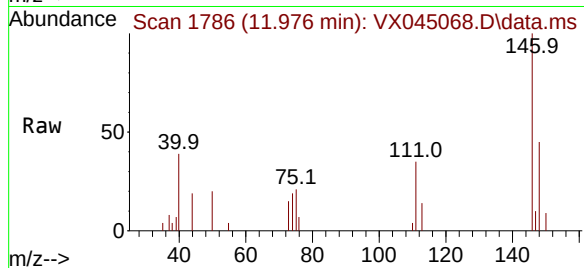
Tgt Ion:146	Resp:	1948
Ion Ratio	Lower	Upper
146	100	
111	37.1	21.1 63.4
148	62.4	31.9 95.7

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

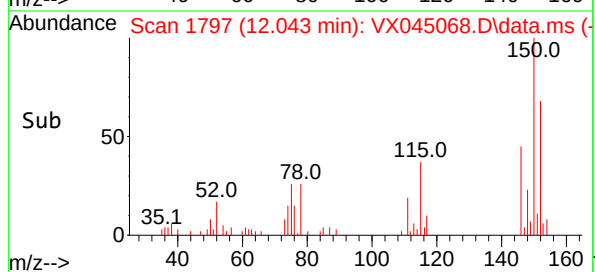
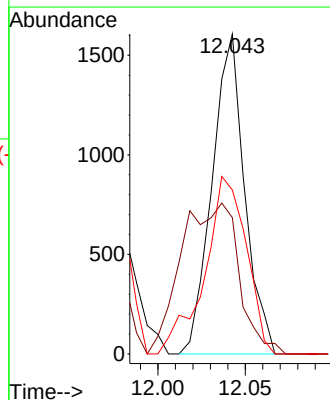
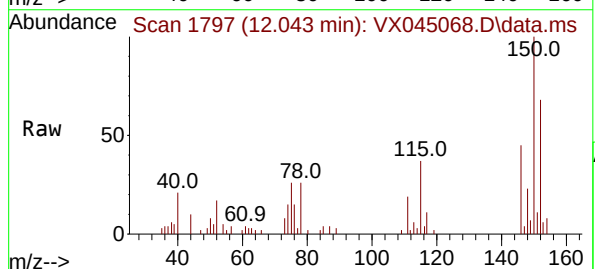
RT: 12.043 min Scan# 1797

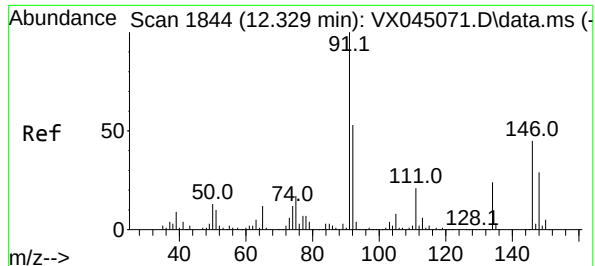
Delta R.T. 0.006 min

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

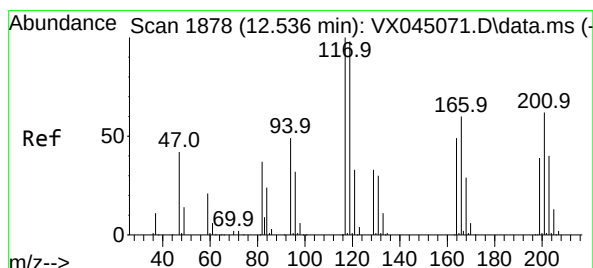
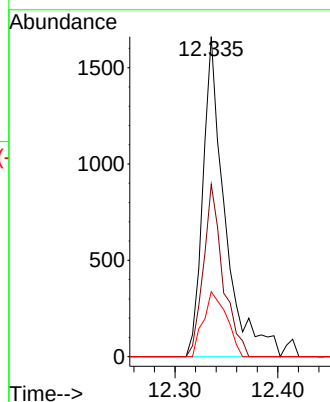
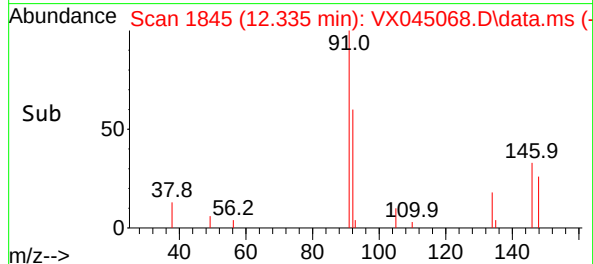
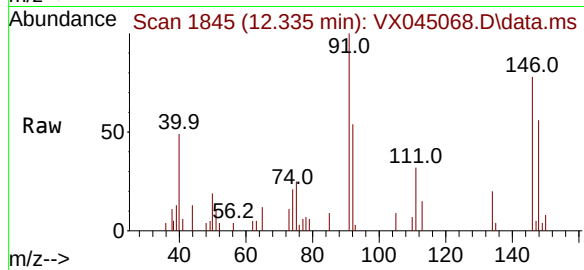
134 21.4 12.2 36.6

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

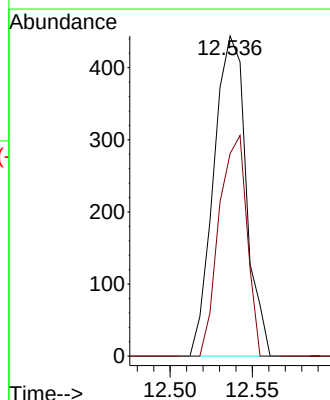
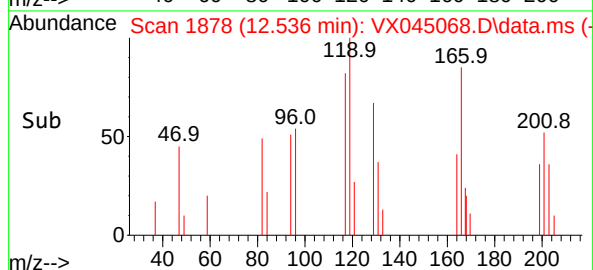
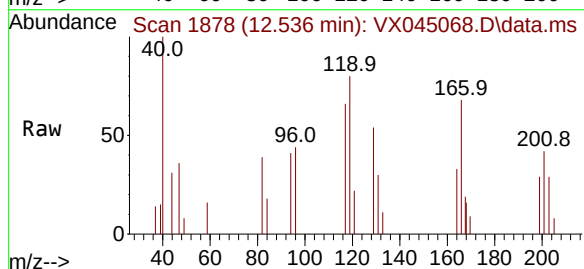
Acq: 28 Feb 2025 01:27

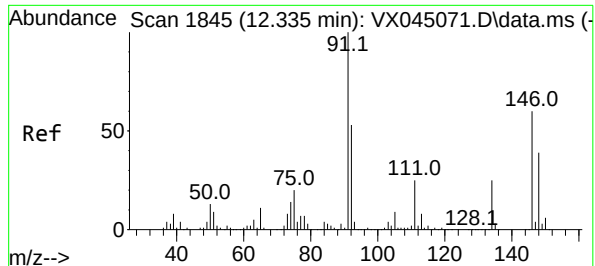
Tgt Ion:117 Resp: 609

Ion Ratio Lower Upper

117 100

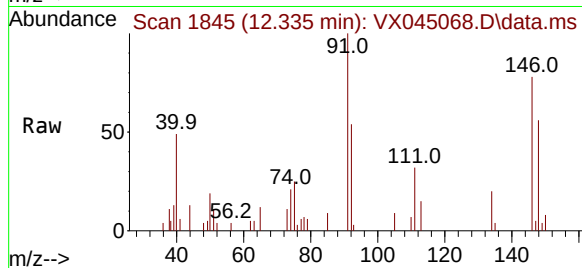
201 58.9 31.9 95.9





#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

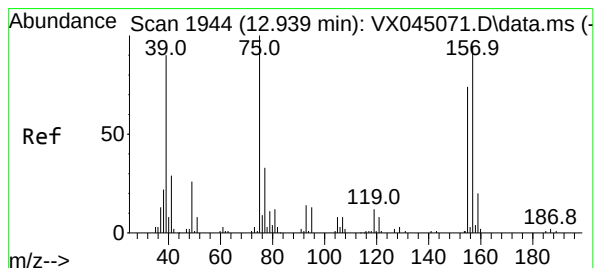
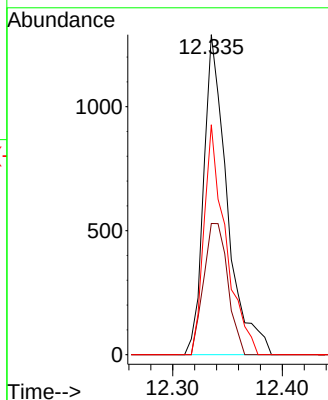
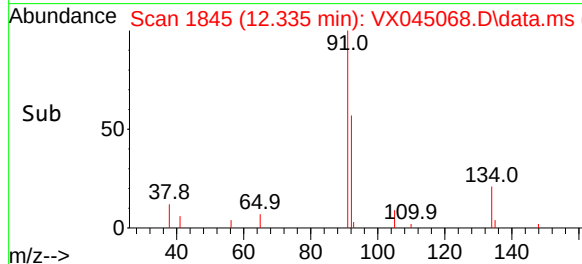
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



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

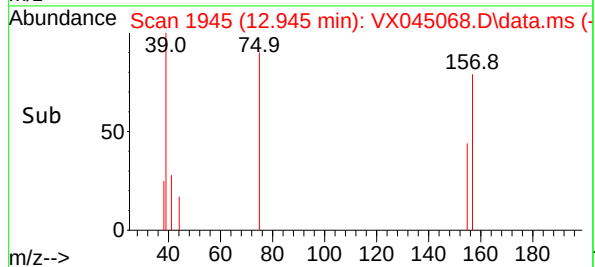
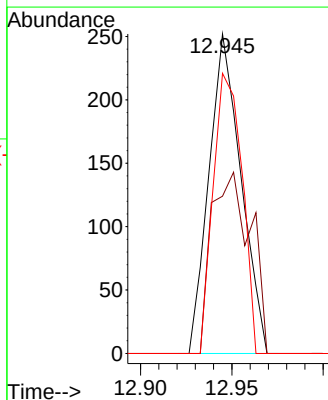
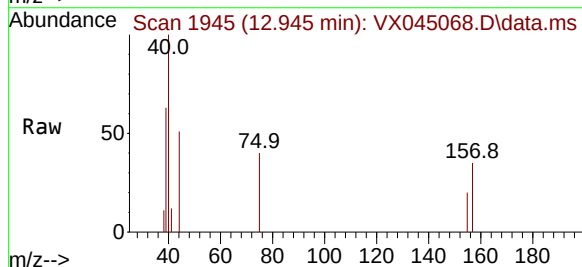
Manual Integrations
APPROVED

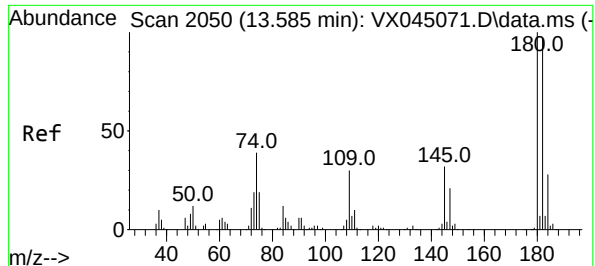
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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 :

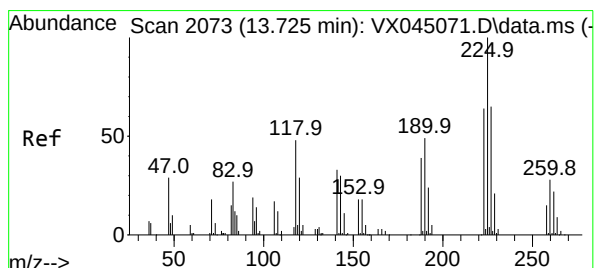
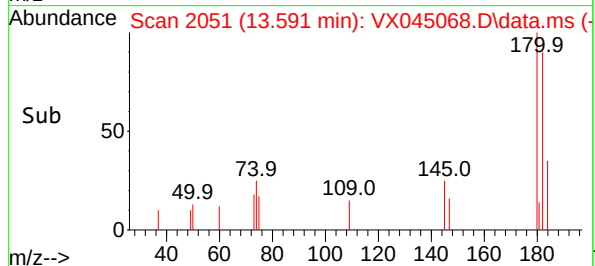
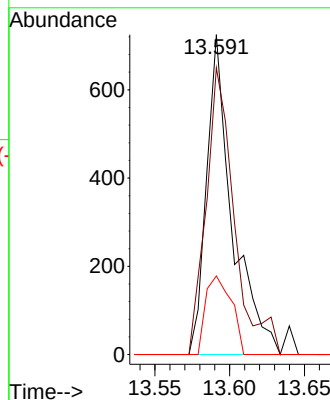
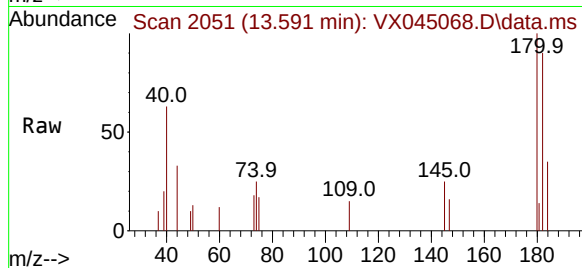
VSTDIC001

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

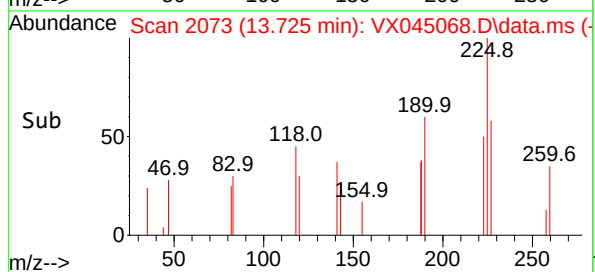
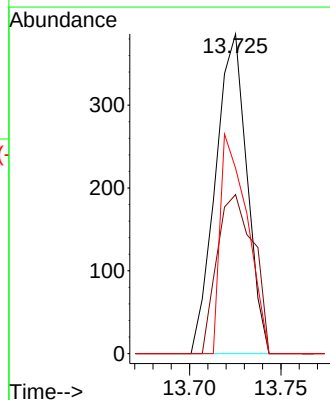
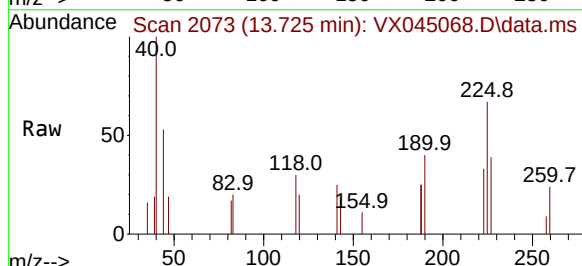
RT: 13.725 min Scan# 2073

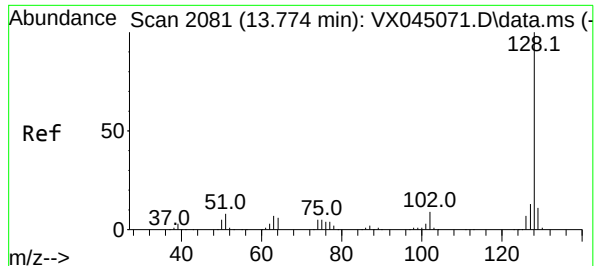
Delta R.T. 0.000 min

Lab File: VX045068.D

Acq: 28 Feb 2025 01:27

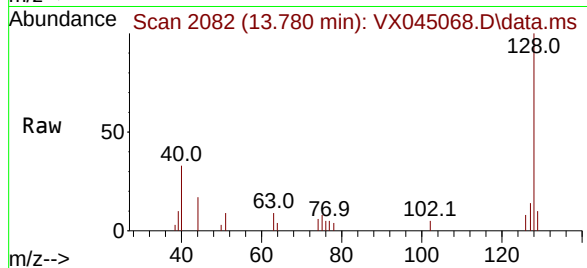
Tgt Ion:225	Resp:	462
Ion Ratio	Lower	Upper
225	100	
223	57.8	31.9 95.7
227	58.7	31.4 94.0





#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

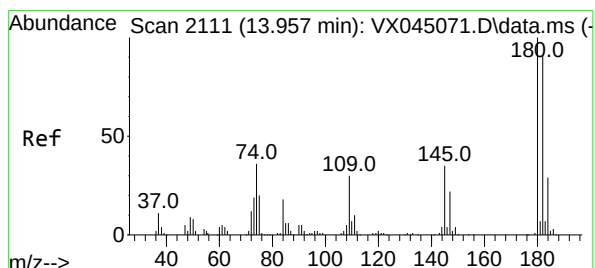
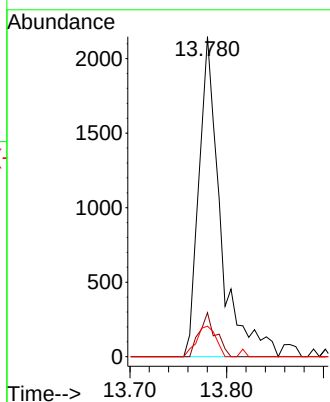
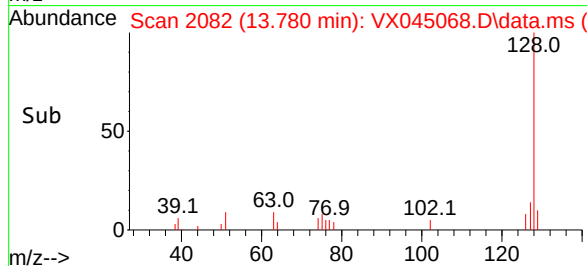
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



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

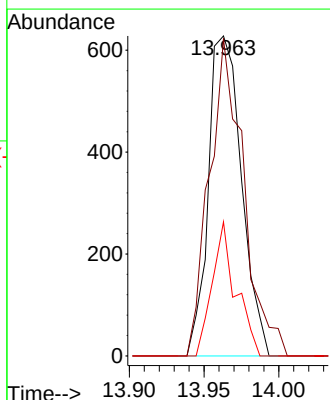
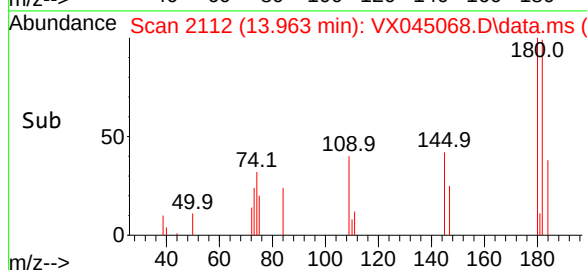
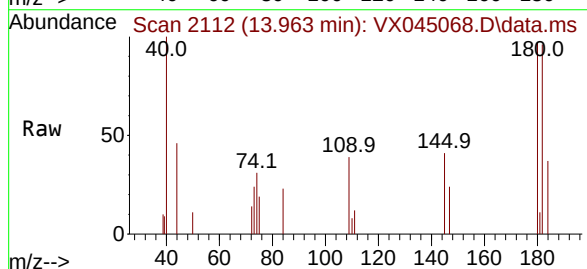
Manual Integrations
APPROVED

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

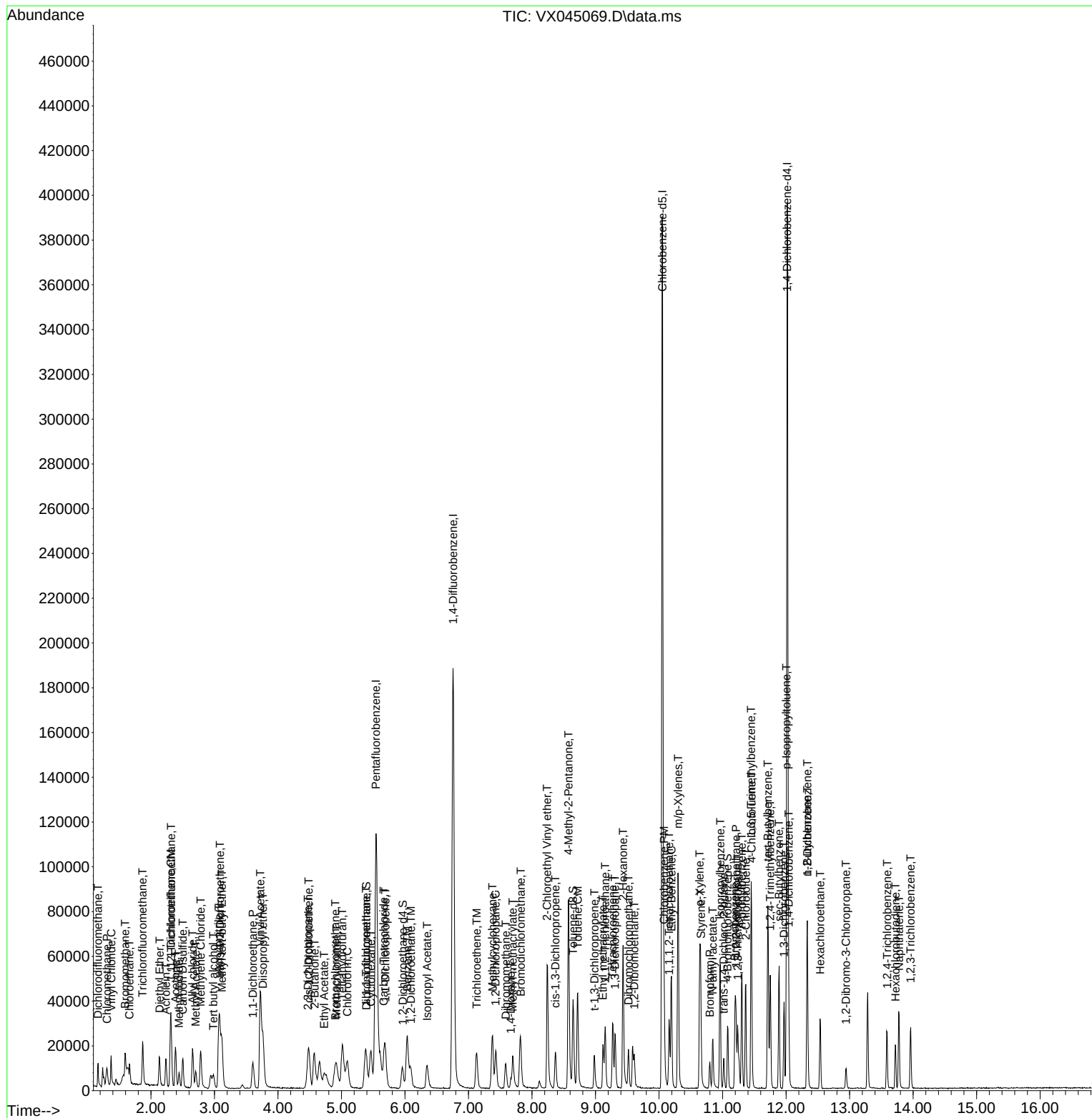
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\  
Data File : VX045069.D  
Acq On    : 28 Feb 2025   02:13  
Operator  : JC/MD  
Sample    : VSTDIC005  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 18   Sample Multiplier: 1
```

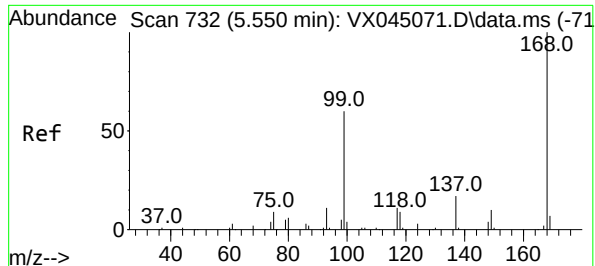
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations

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





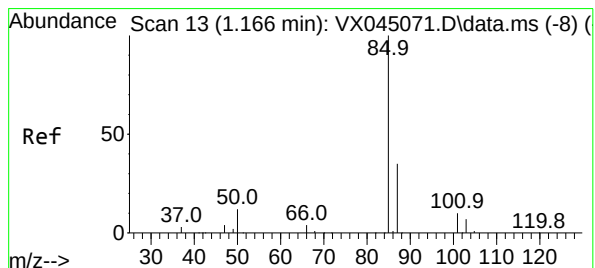
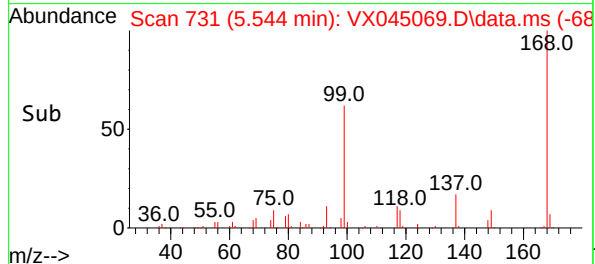
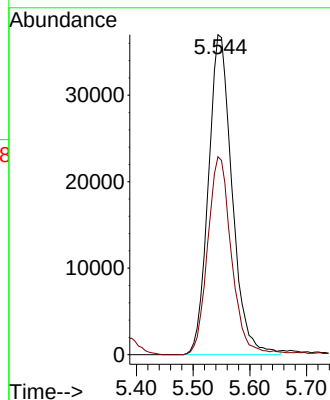
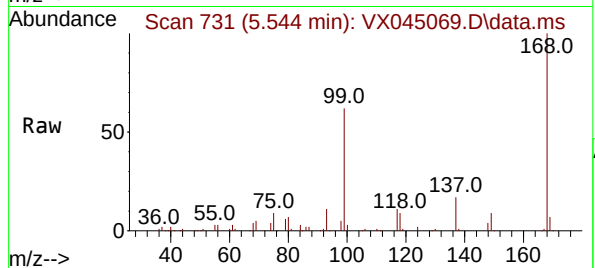
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

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

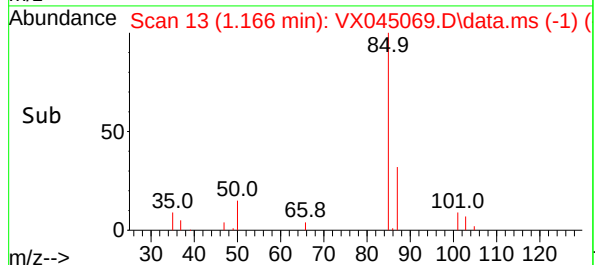
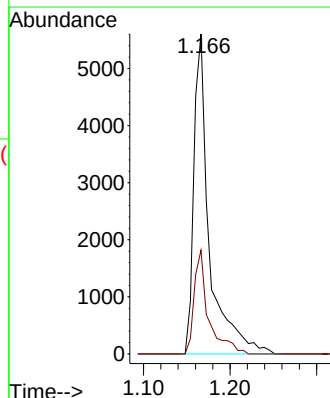
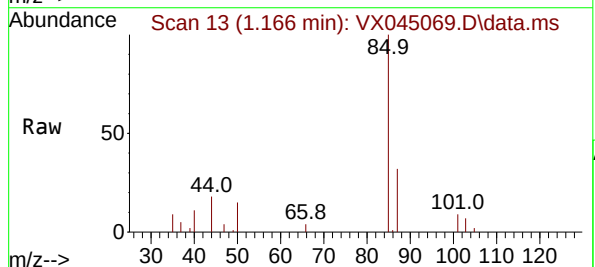
Manual Integrations
APPROVED

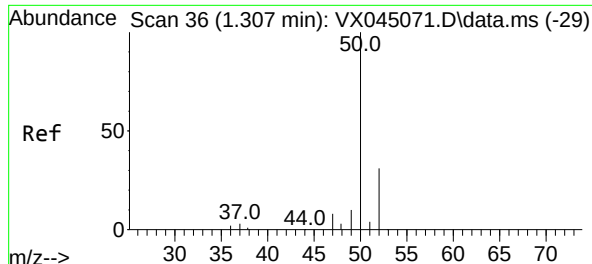
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





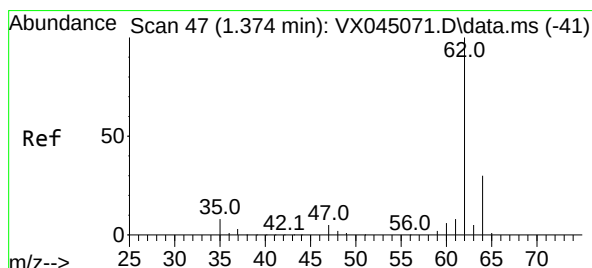
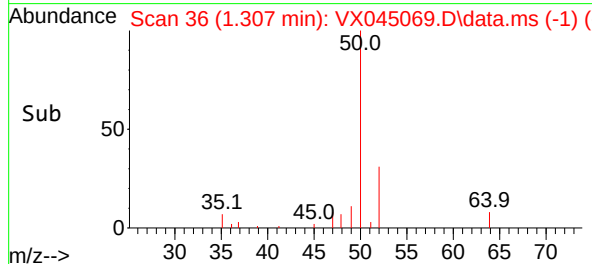
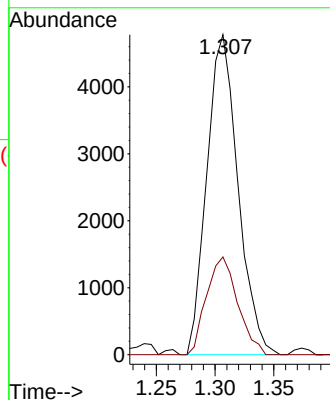
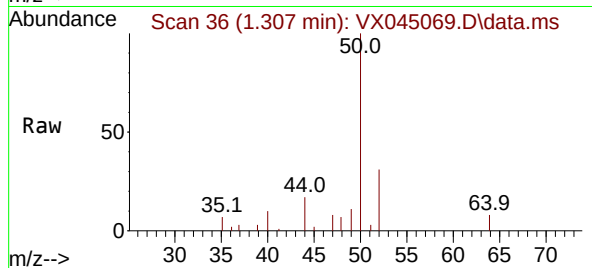
#3
Chloromethane
Concen: 4.896 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

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

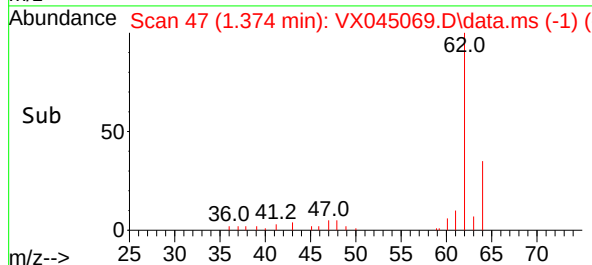
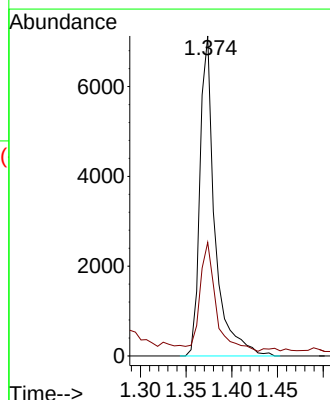
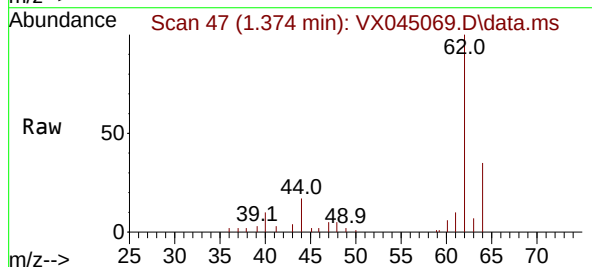
Manual Integrations
APPROVED

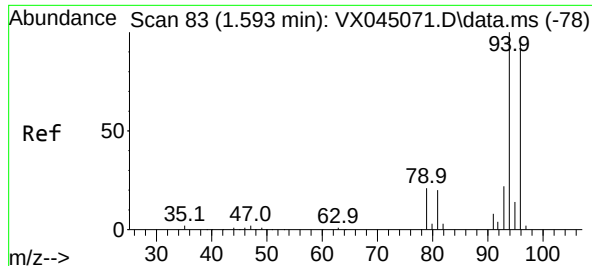
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





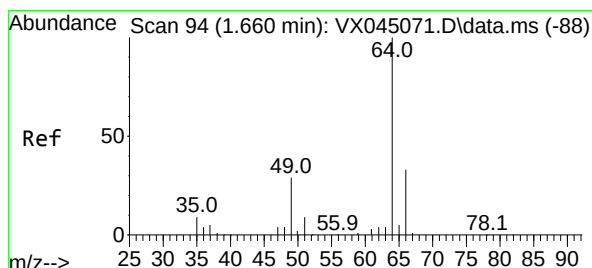
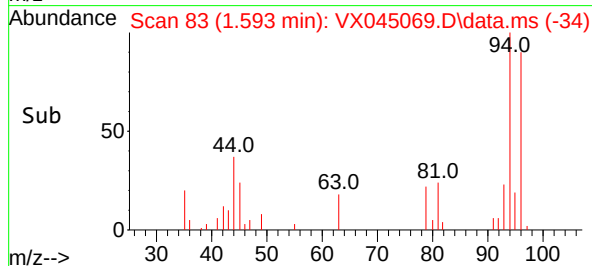
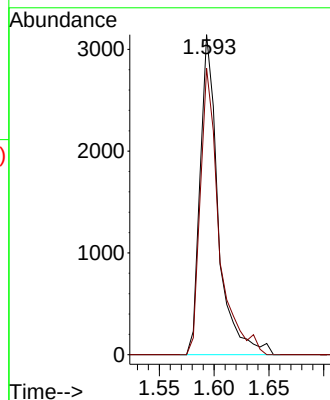
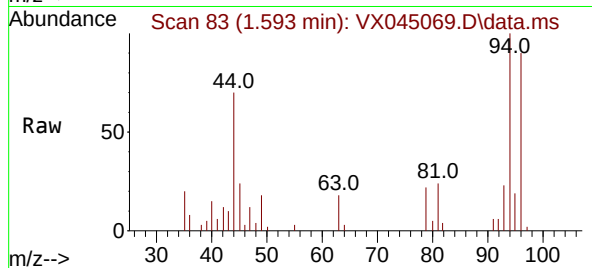
#5
Bromomethane
Concen: 6.582 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

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

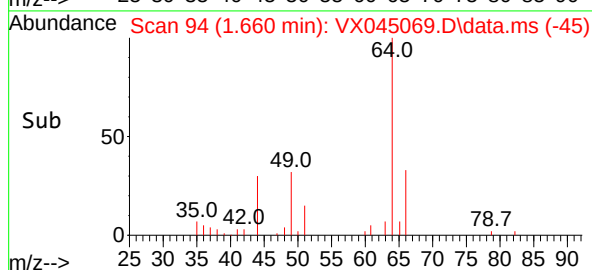
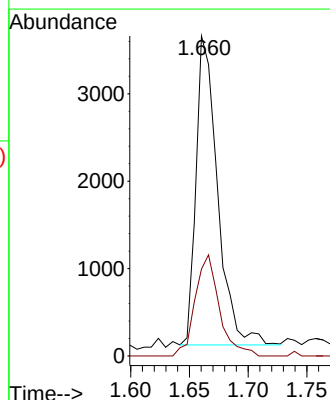
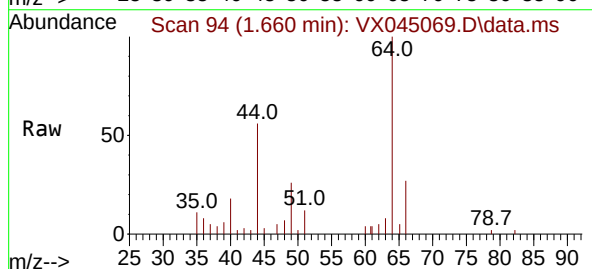
Manual Integrations
APPROVED

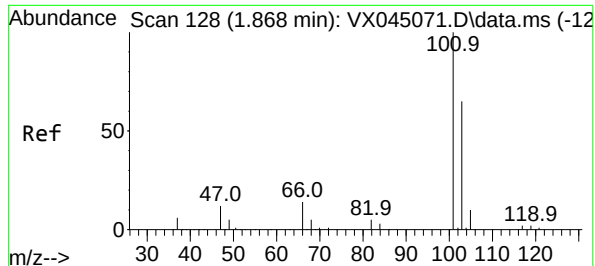
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

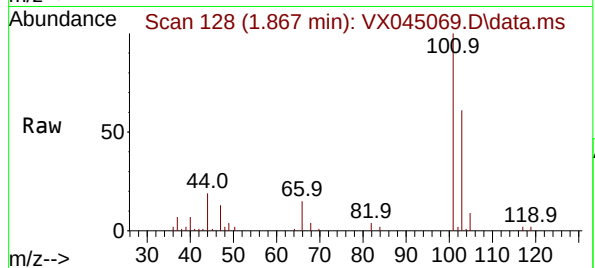
Tgt Ion: 64 Resp: 4517
Ion Ratio Lower Upper
64 100
66 28.1 26.7 40.1





#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

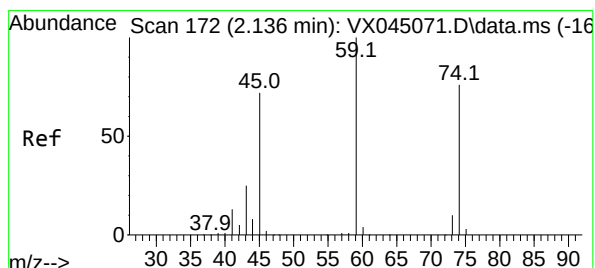
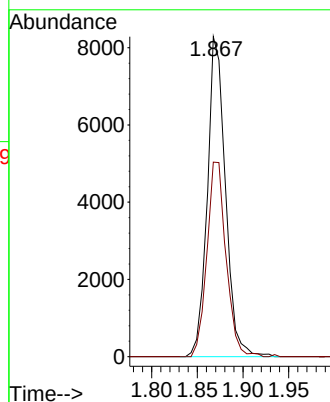
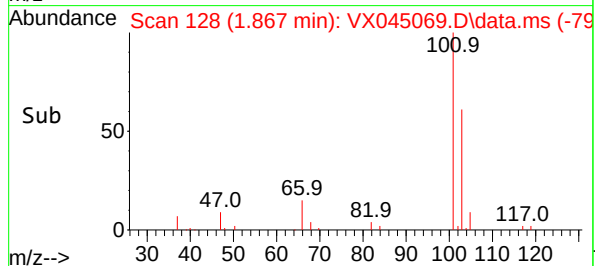
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



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

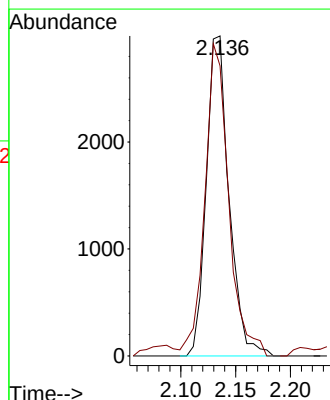
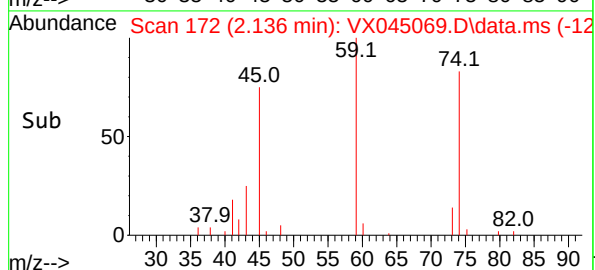
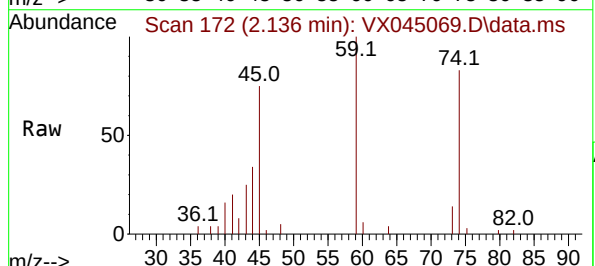
Manual Integrations
APPROVED

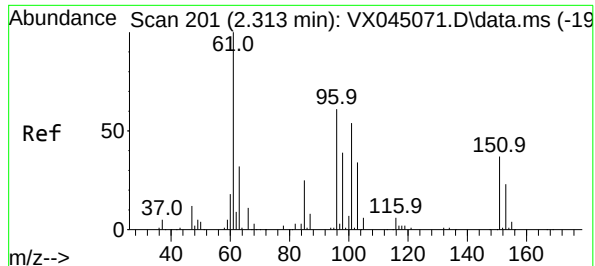
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





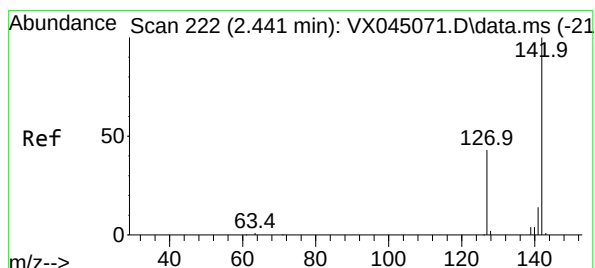
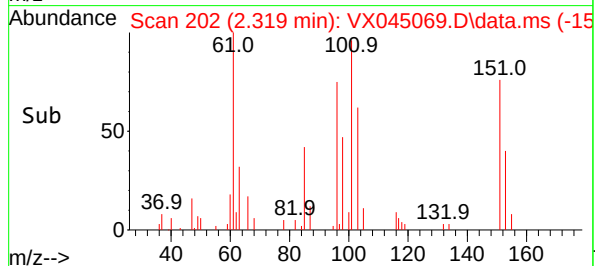
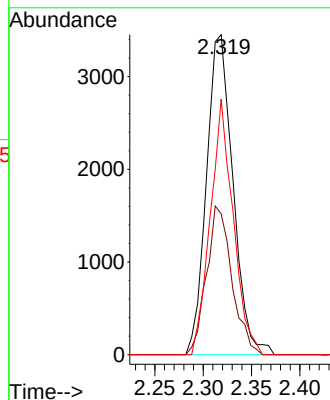
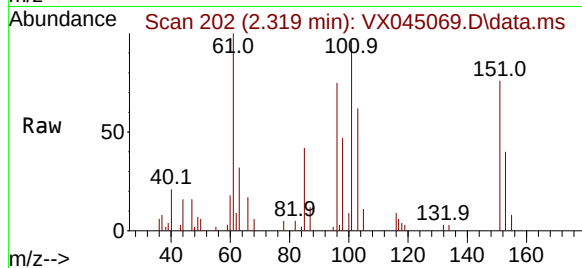
#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.894 ug/l
RT: 2.319 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

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

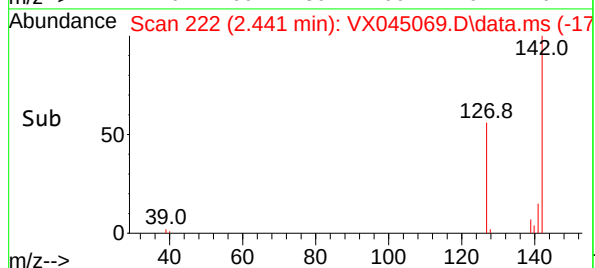
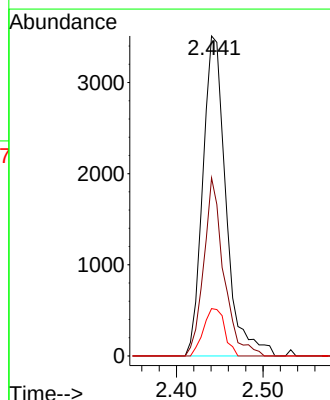
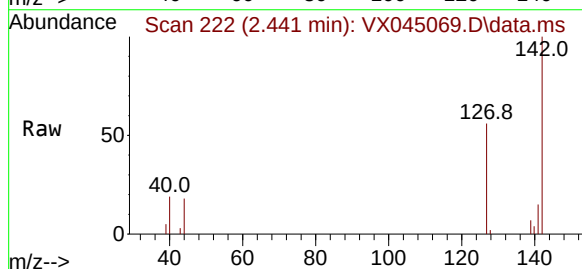
Manual Integrations
APPROVED

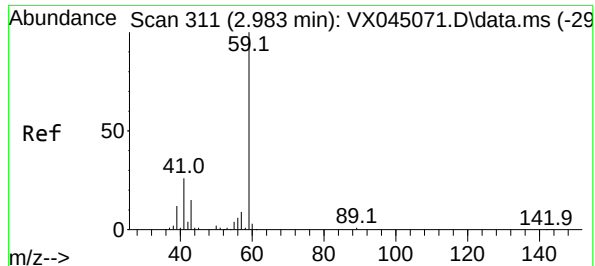
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

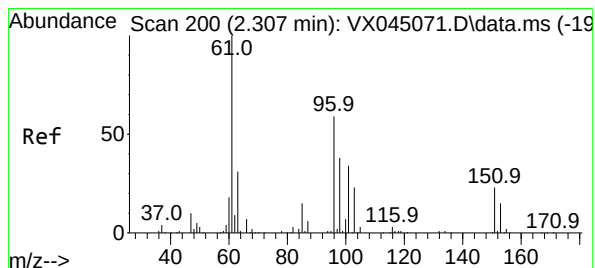
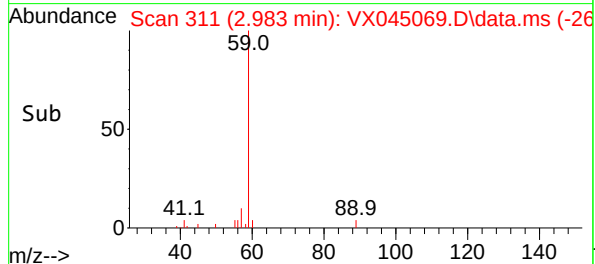
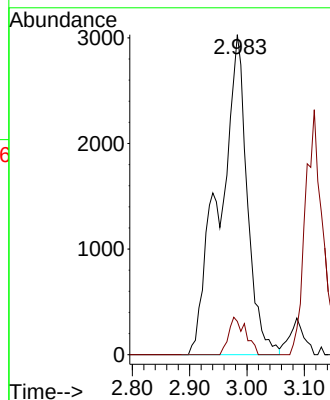
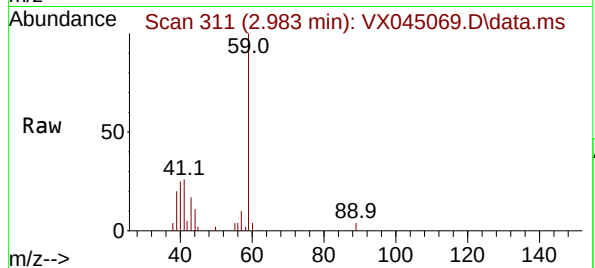
57 7.2 7.8 11.8

Manual Integrations

APPROVED

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

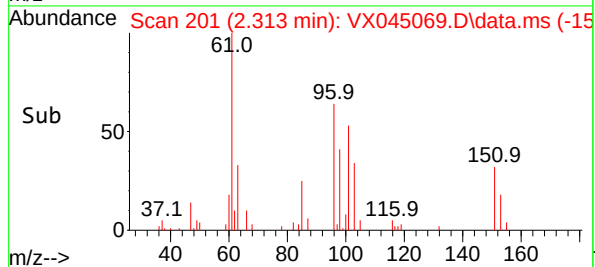
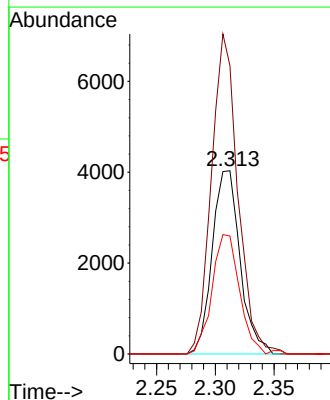
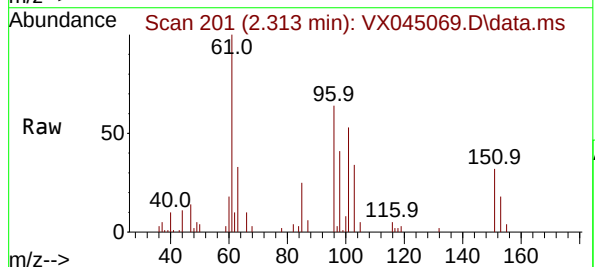
Tgt Ion: 96 Resp: 6658

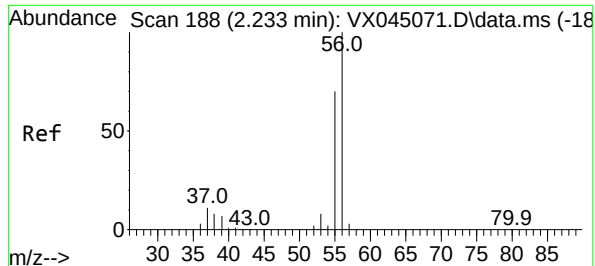
Ion Ratio Lower Upper

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

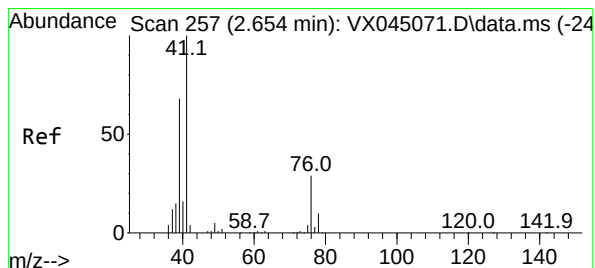
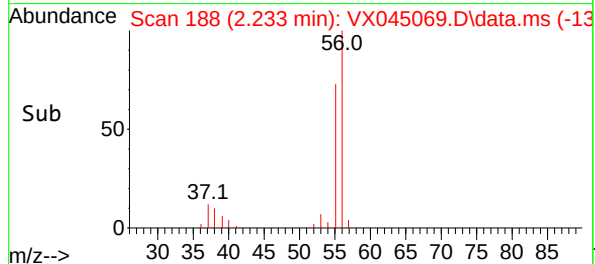
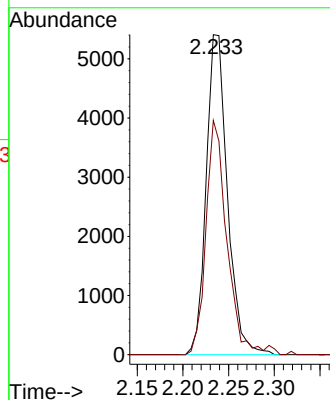
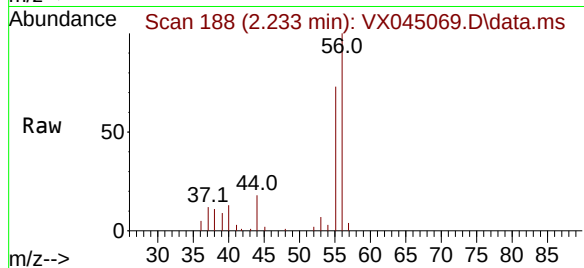
55 72.4 56.2 84.4

Manual Integrations

APPROVED

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

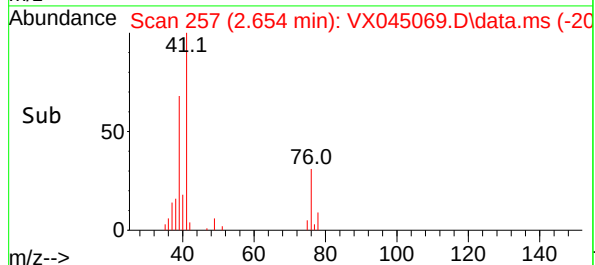
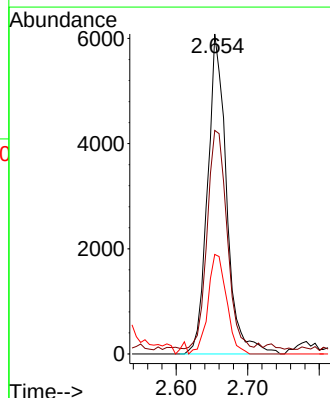
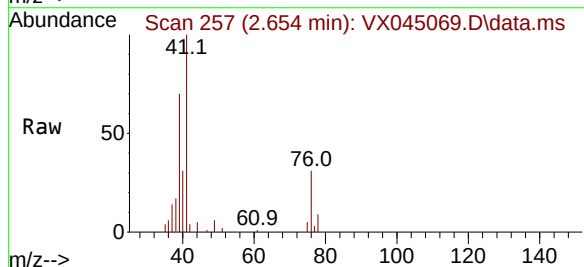
Tgt Ion: 41 Resp: 11244

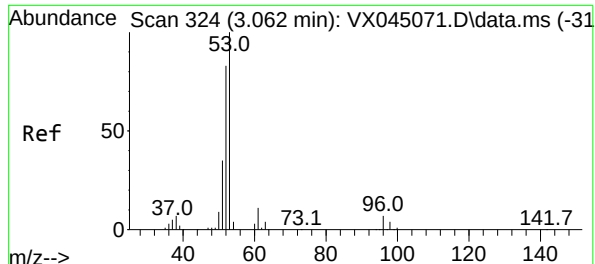
Ion Ratio Lower Upper

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

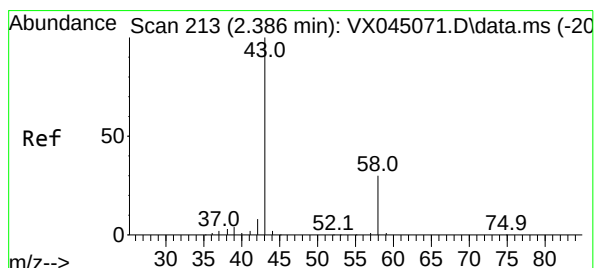
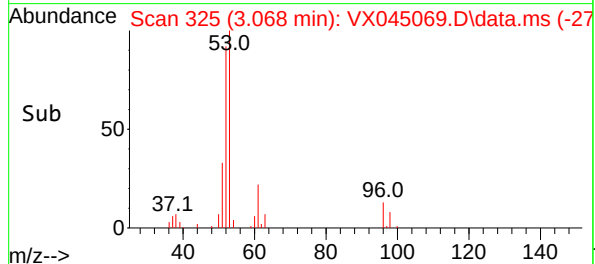
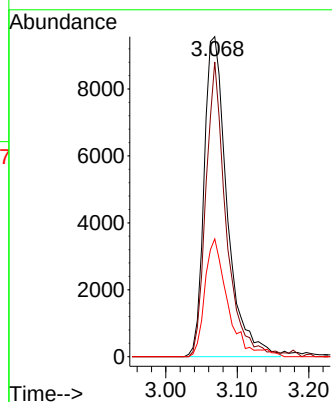
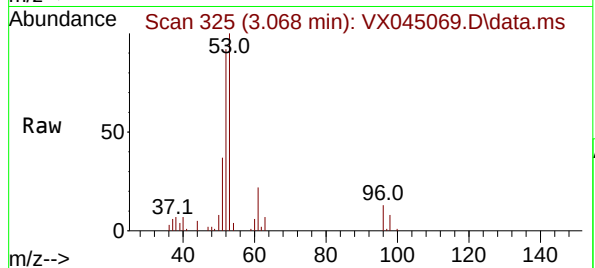
Tgt Ion:	53	Resp:	2138
Ion	Ratio	Lower	Upper
53	100		
52	81.1	66.2	99.2
51	36.7	29.0	43.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#16

Acetone

Concen: 29.891 ug/l

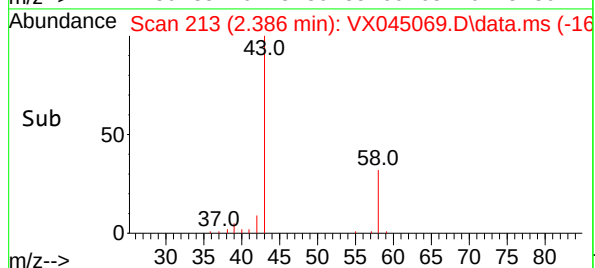
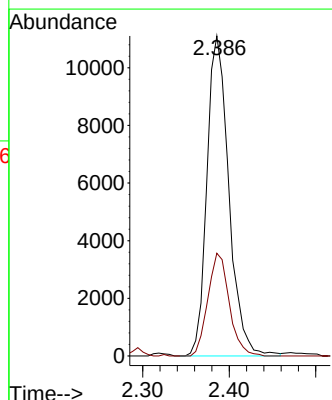
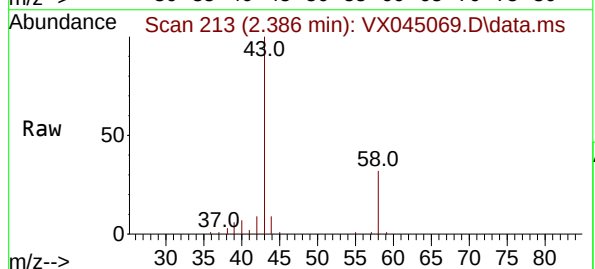
RT: 2.386 min Scan# 213

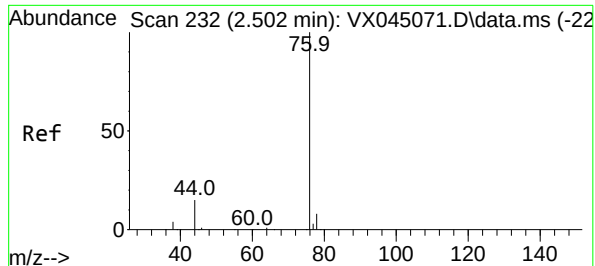
Delta R.T. -0.000 min

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 :

VSTDIC005

Tgt Ion: 76 Resp: 16984

Ion Ratio Lower Upper

76 100

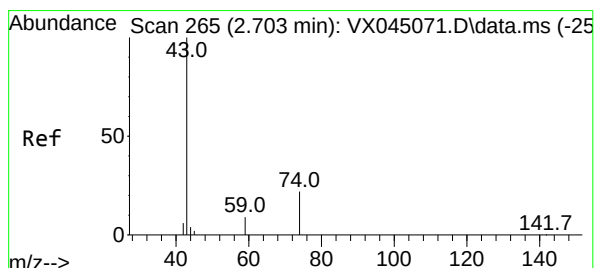
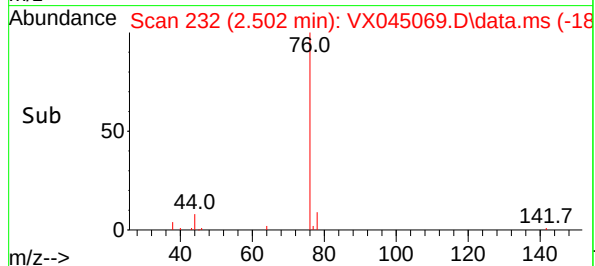
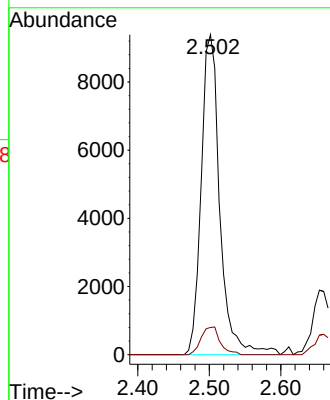
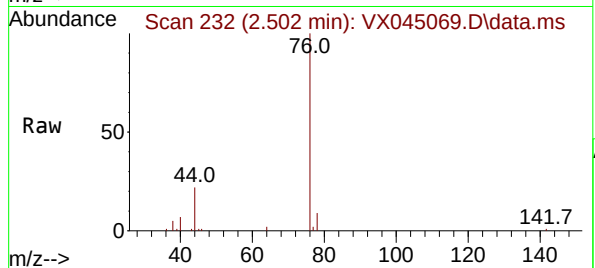
78 8.5 6.6 9.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#18

Methyl Acetate

Concen: 4.559 ug/l

RT: 2.703 min Scan# 265

Delta R.T. -0.000 min

Lab File: VX045069.D

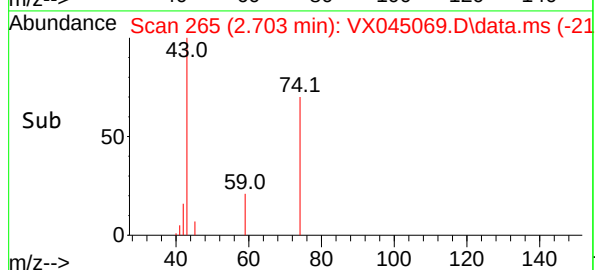
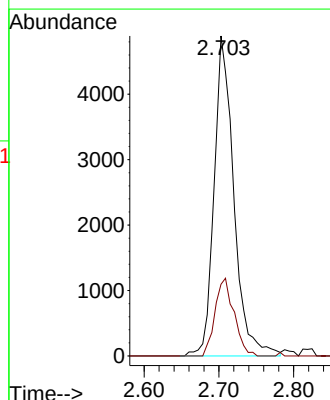
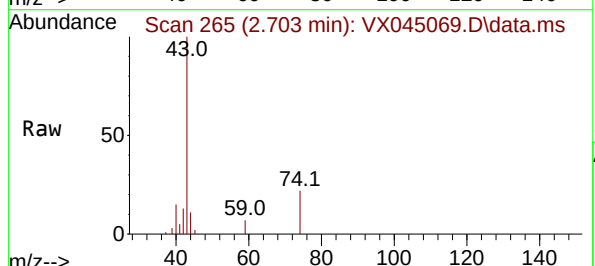
Acq: 28 Feb 2025 02:13

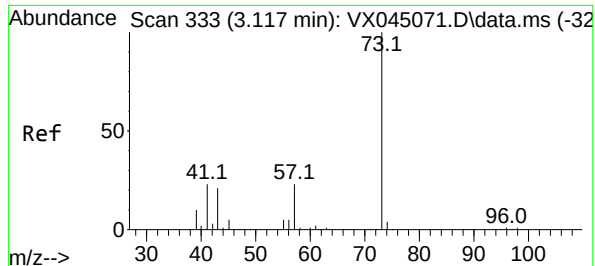
Tgt Ion: 43 Resp: 8964

Ion Ratio Lower Upper

43 100

74 23.3 17.4 26.2





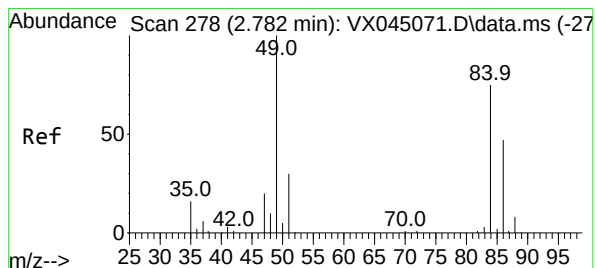
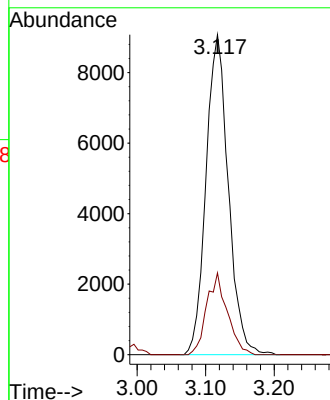
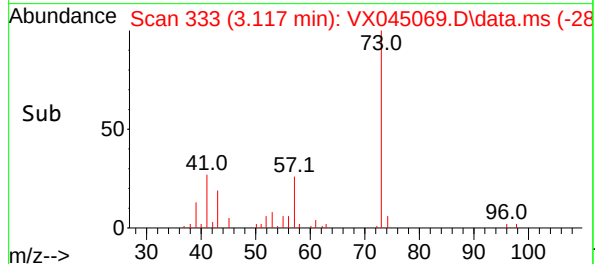
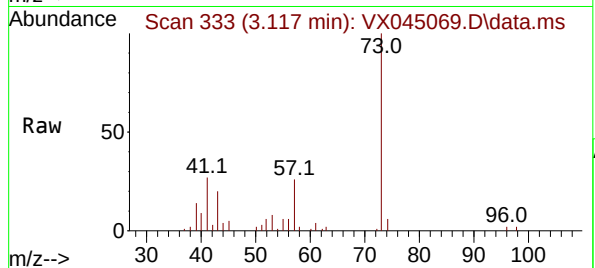
#19
Methyl tert-butyl Ether
Concen: 4.651 ug/l
RT: 3.117 min Scan# 311
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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

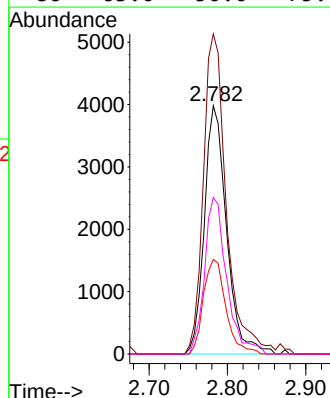
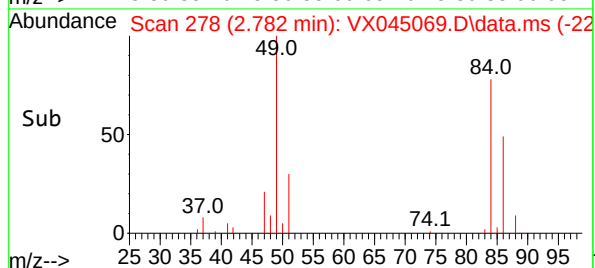
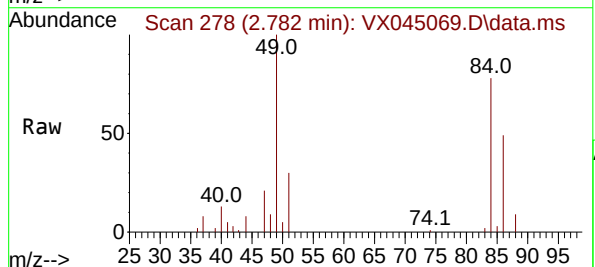
Manual Integrations
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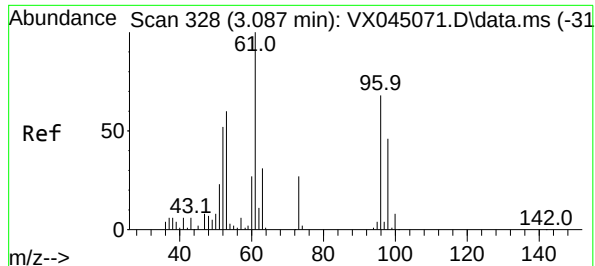
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





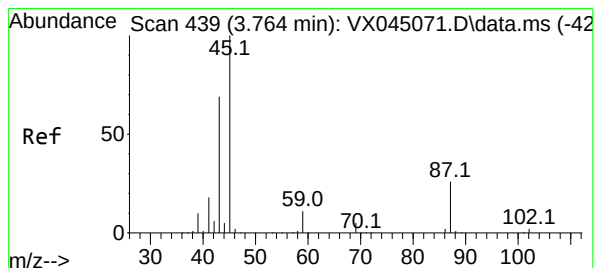
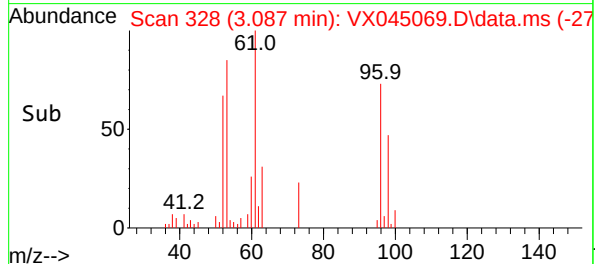
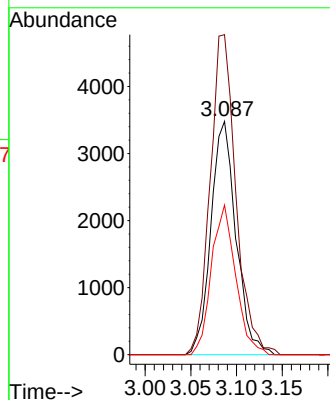
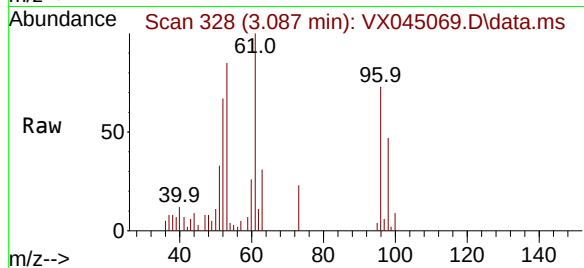
#21
trans-1,2-Dichloroethene
Concen: 4.895 ug/l
RT: 3.087 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

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

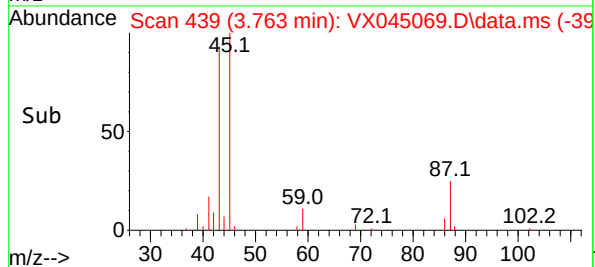
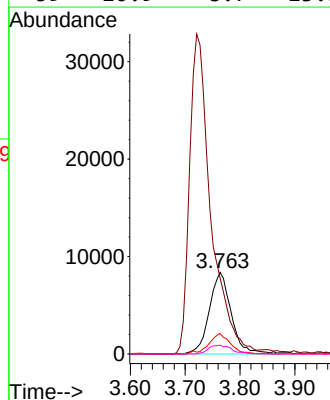
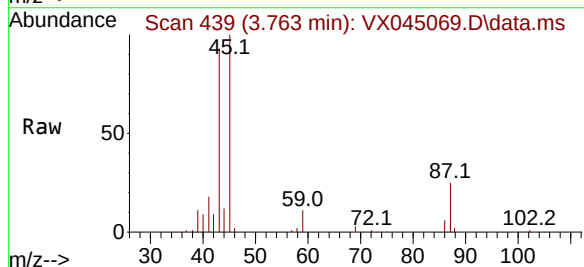
Manual Integrations
APPROVED

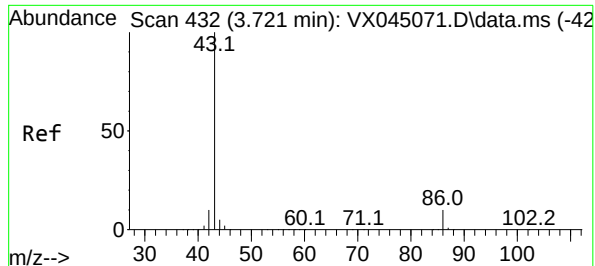
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





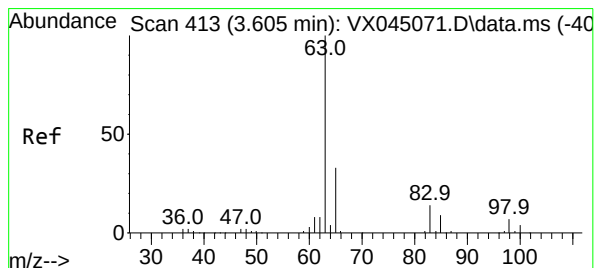
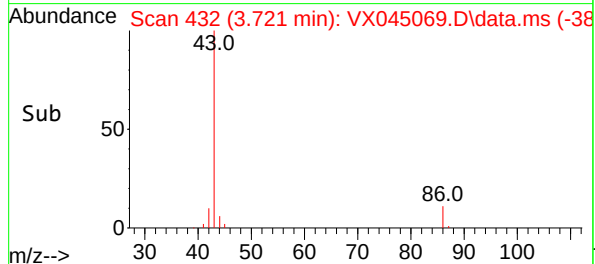
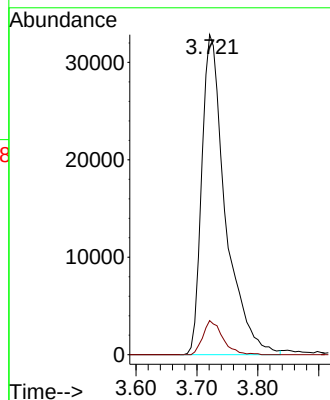
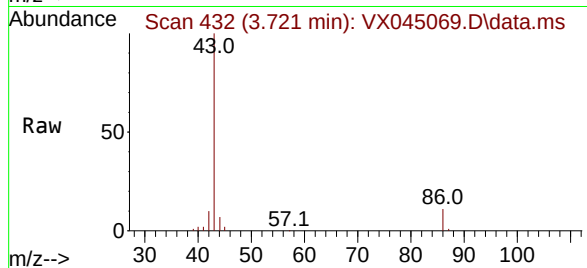
#23
Vinyl Acetate
Concen: 22.788 ug/l
RT: 3.721 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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

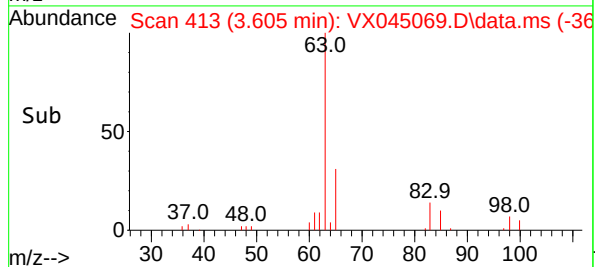
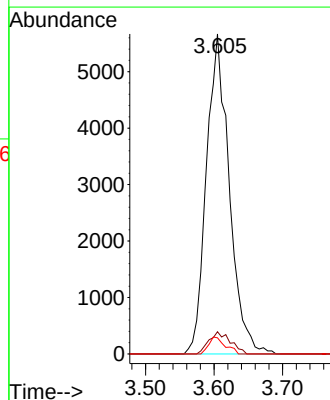
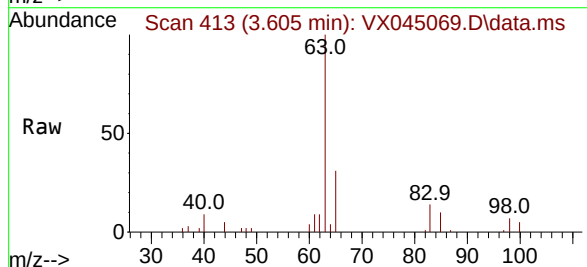
Manual Integrations
APPROVED

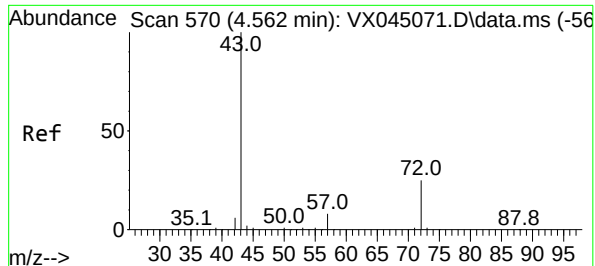
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

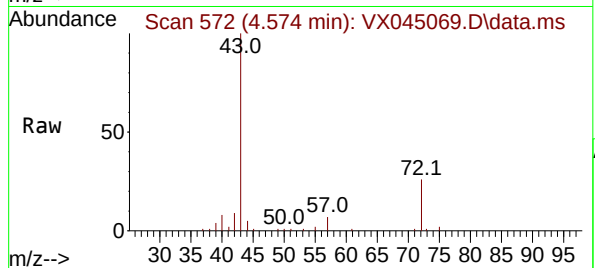
Tgt Ion: 63 Resp: 13132
Ion Ratio Lower Upper
63 100
98 7.0 3.4 10.2
100 5.1 2.1 6.5





#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

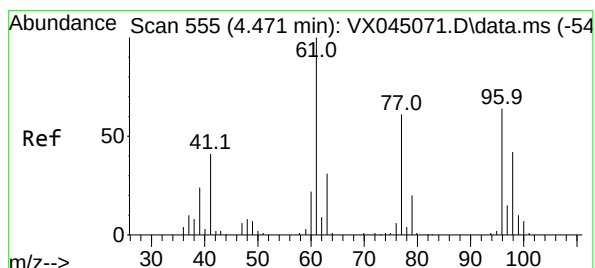
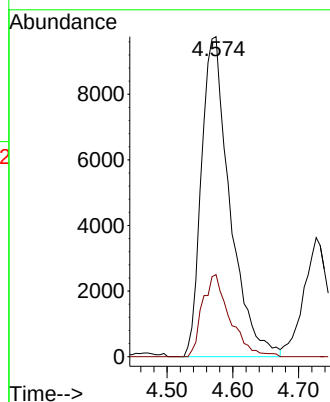
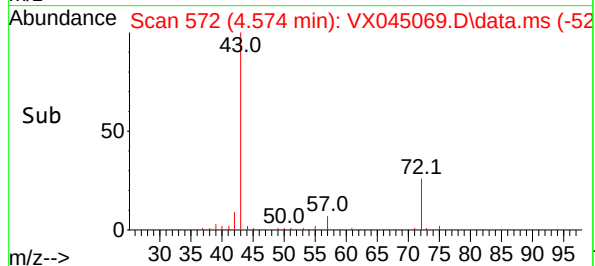
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion: 43 Resp: 2927
Ion Ratio Lower Upper
43 100
72 25.7 20.0 30.0

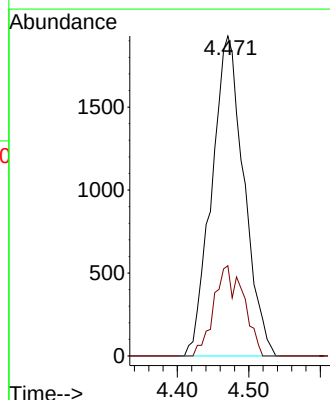
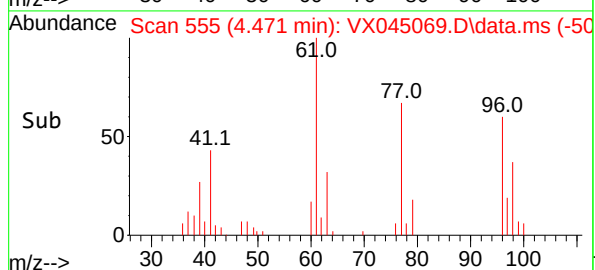
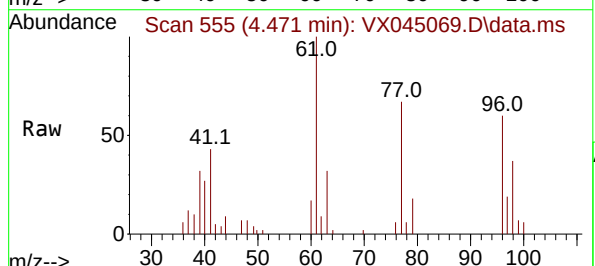
Manual Integrations
APPROVED

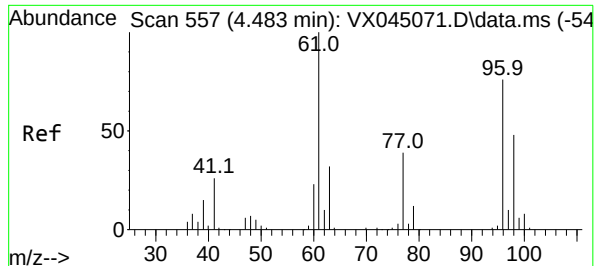
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

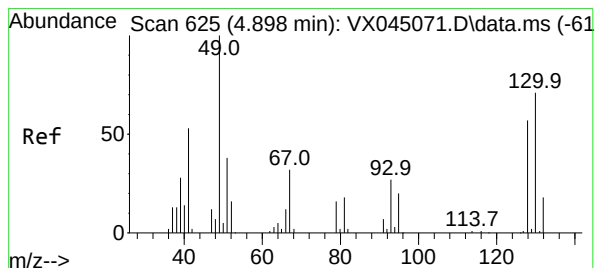
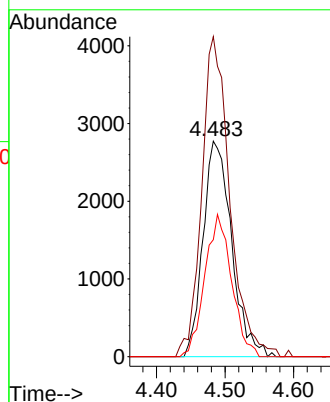
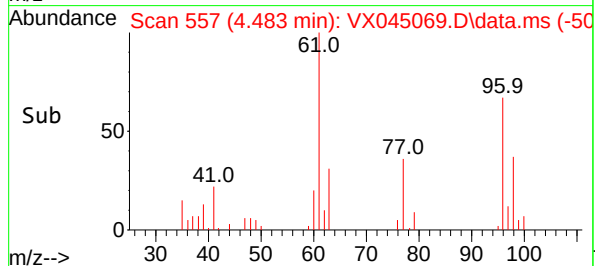
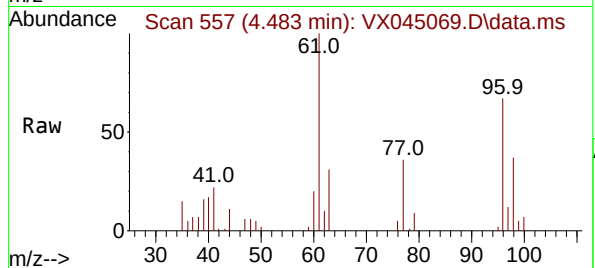
98 62.0 0.0 128.0

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

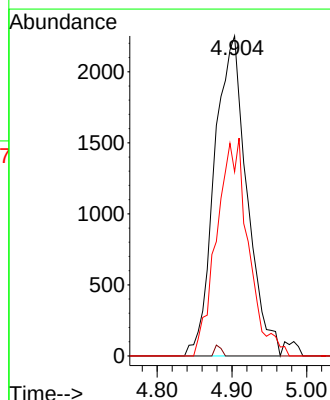
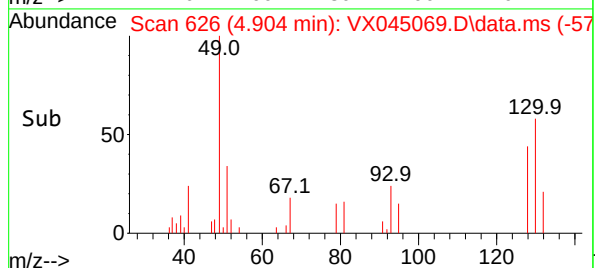
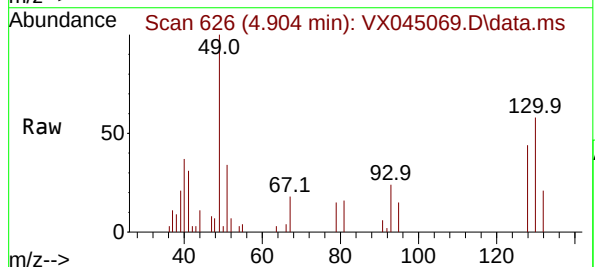
Tgt Ion: 49 Resp: 6797

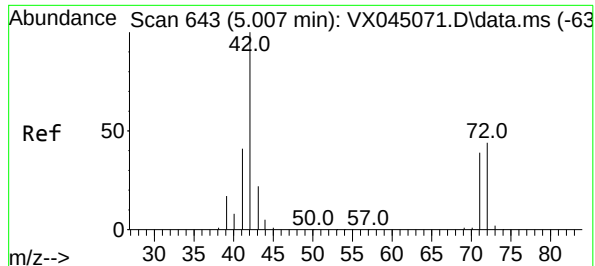
Ion Ratio Lower Upper

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

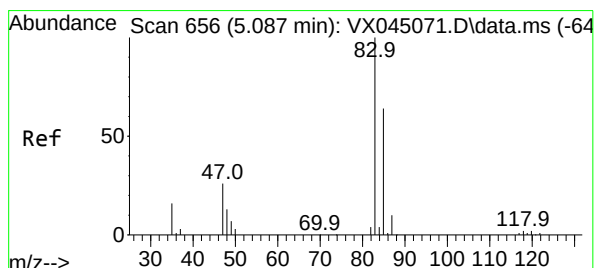
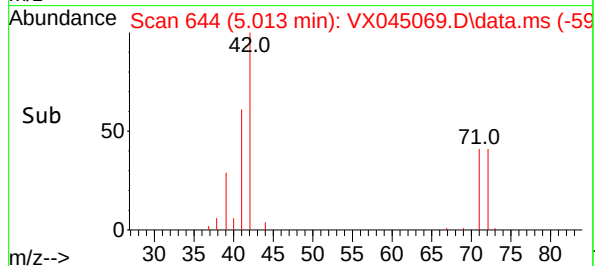
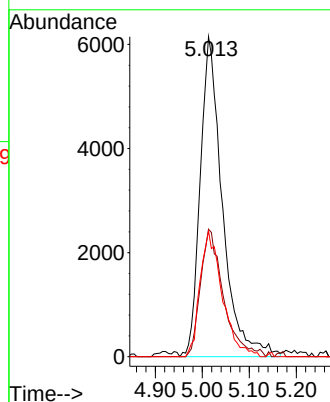
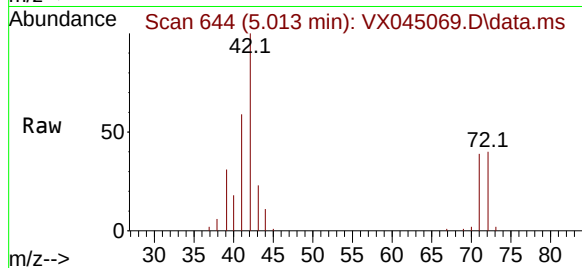
Tgt Ion:	42	Resp:	2018
Ion	Ratio	Lower	Upper
42	100		
72	41.2	34.1	51.1
71	39.3	31.4	47.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#30

Chloroform

Concen: 5.159 ug/l

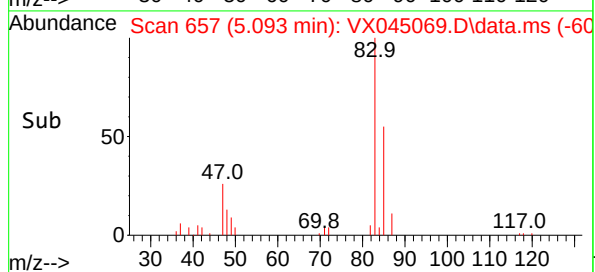
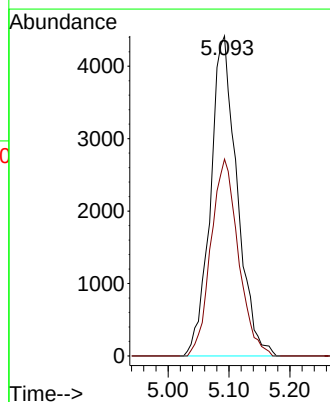
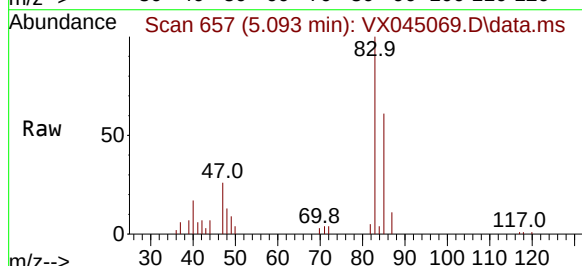
RT: 5.093 min Scan# 657

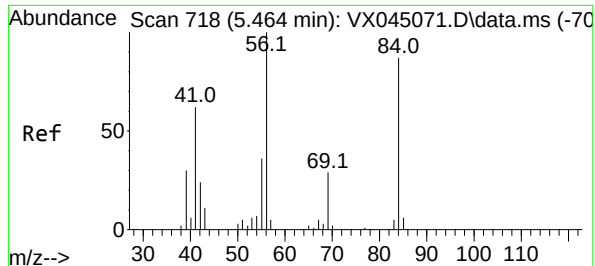
Delta R.T. 0.006 min

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

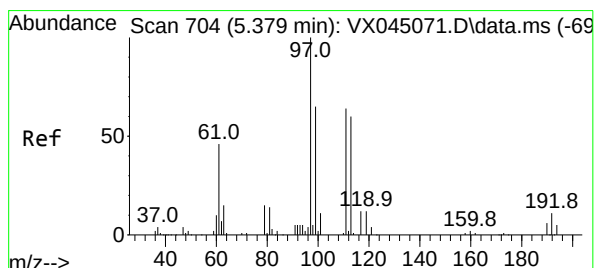
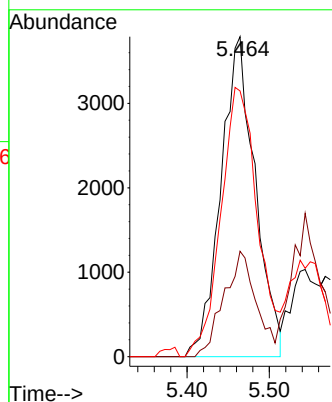
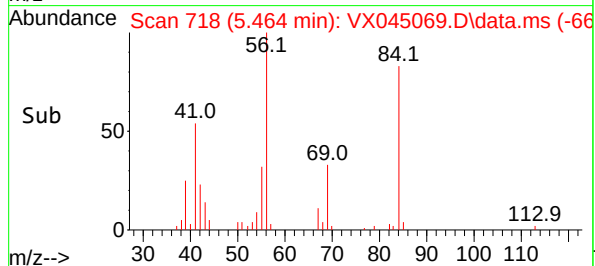
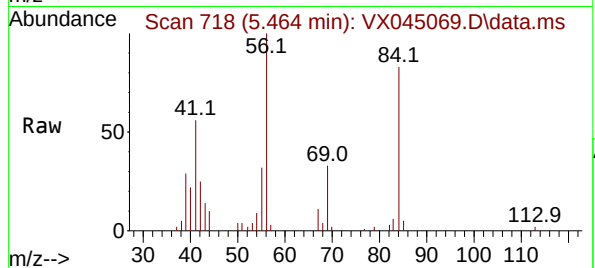
84 83.1 69.4 104.2

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

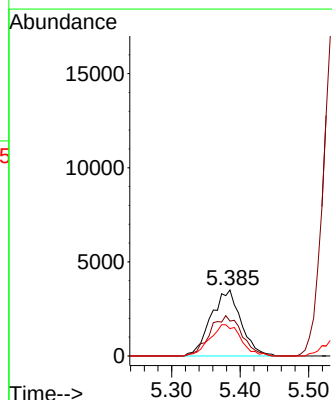
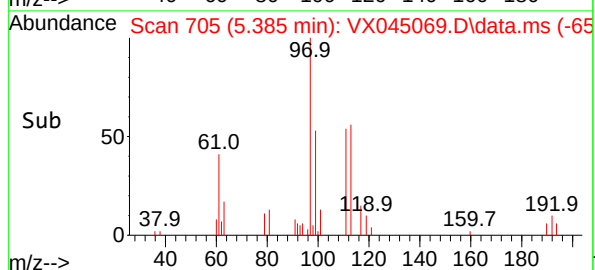
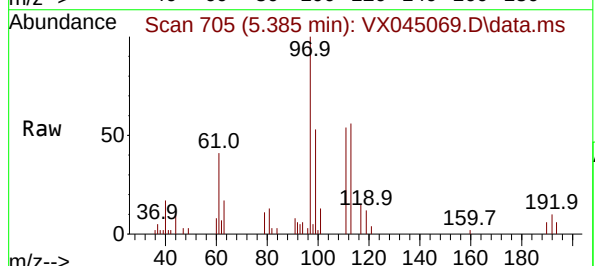
Tgt Ion: 97 Resp: 10654

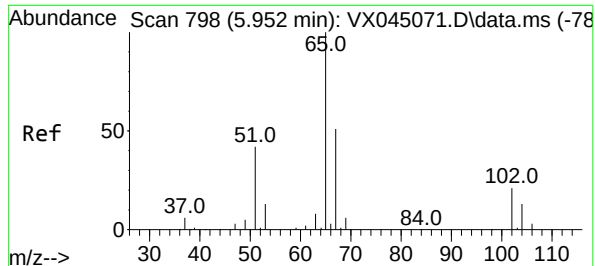
Ion Ratio Lower Upper

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

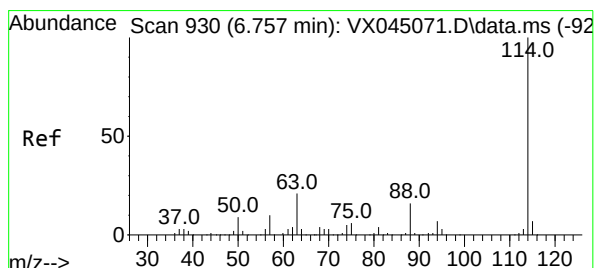
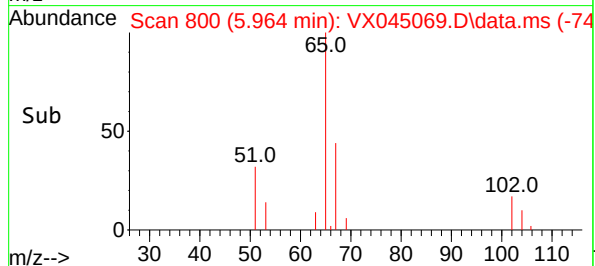
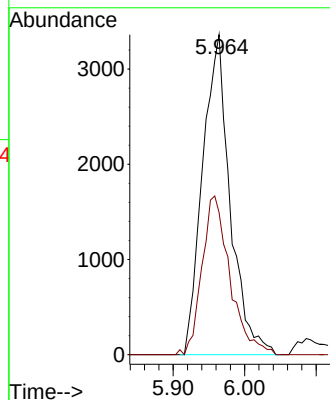
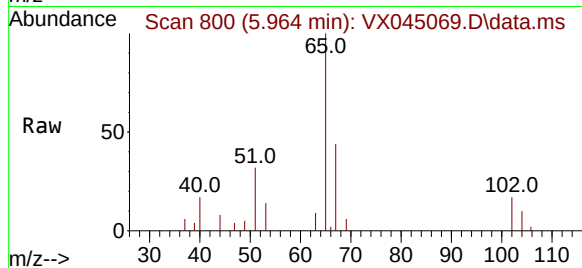
67 50.5 0.0 106.2

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

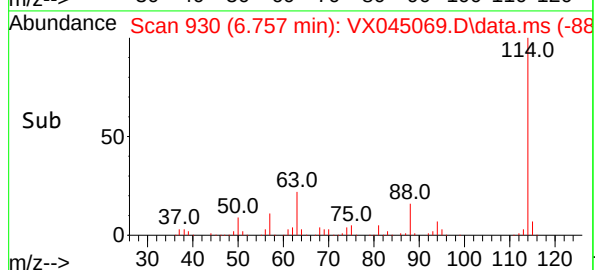
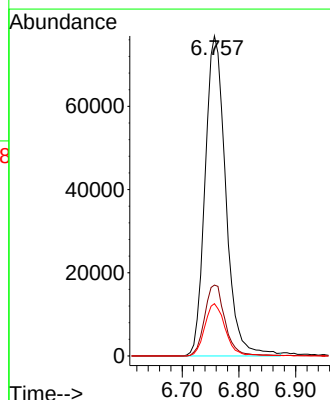
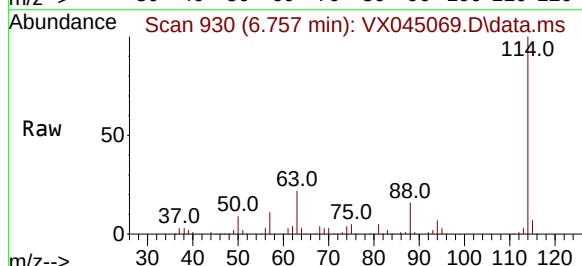
Tgt Ion:114 Resp: 194243

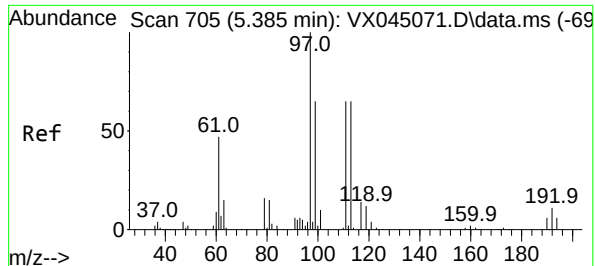
Ion Ratio Lower Upper

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

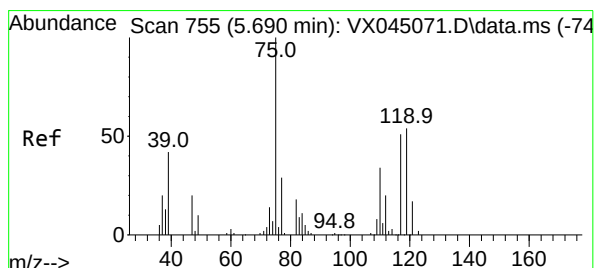
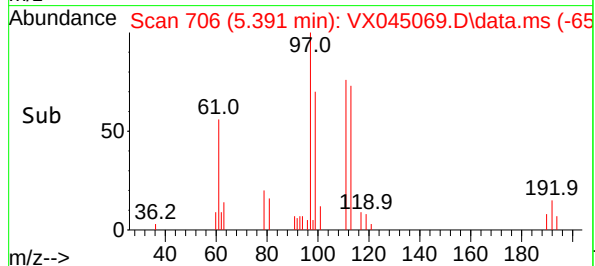
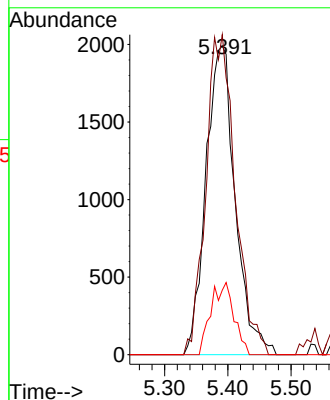
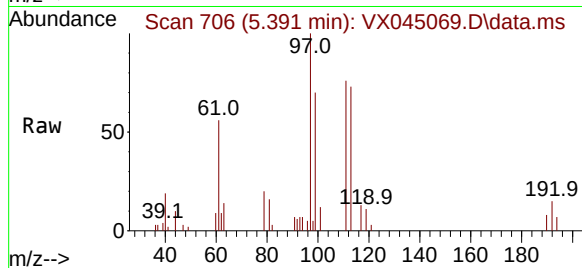
192 18.3 14.3 21.5

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

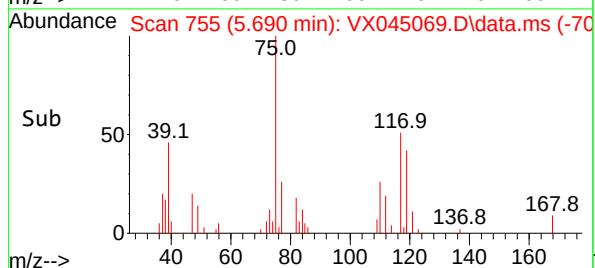
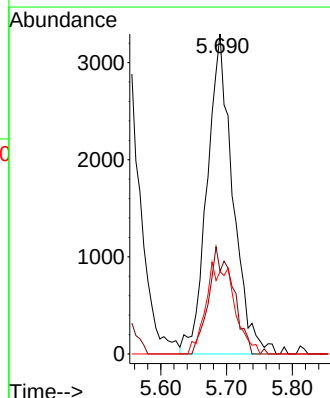
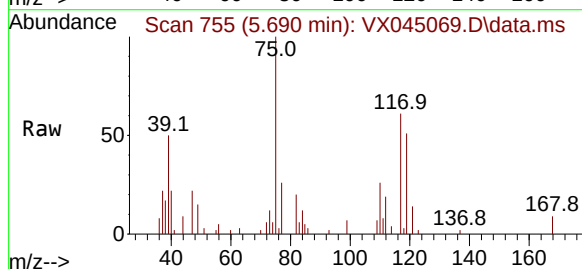
Tgt Ion: 75 Resp: 8977

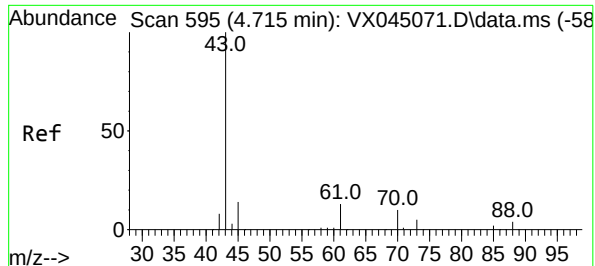
Ion Ratio Lower Upper

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

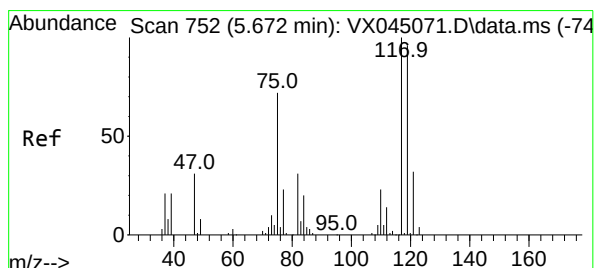
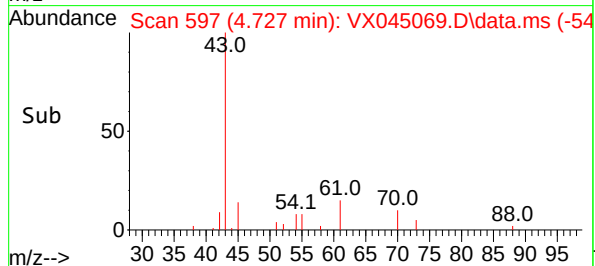
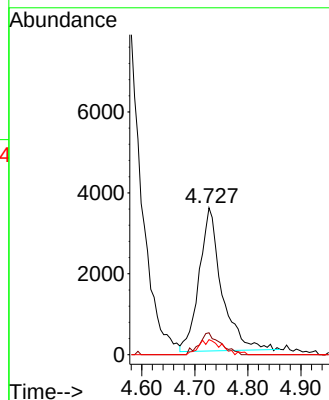
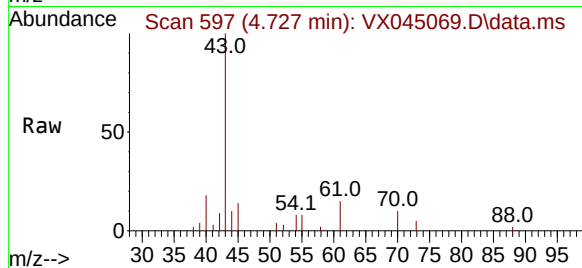
70 10.2 7.7 11.5

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

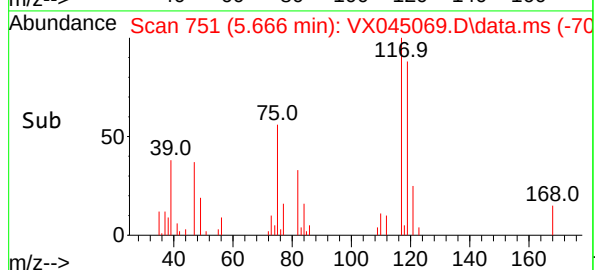
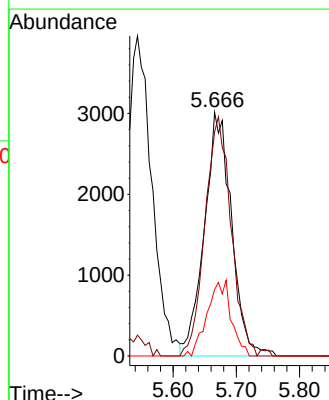
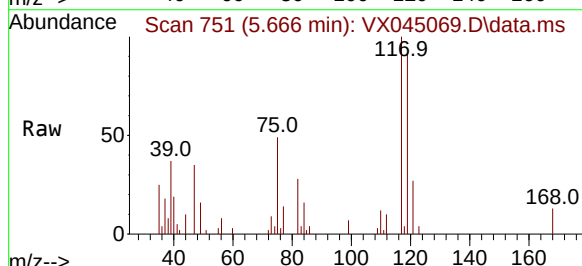
Tgt Ion:117 Resp: 8997

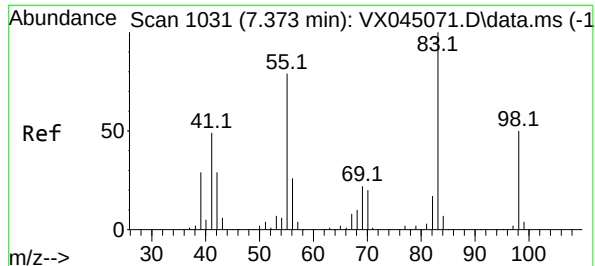
Ion Ratio Lower Upper

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

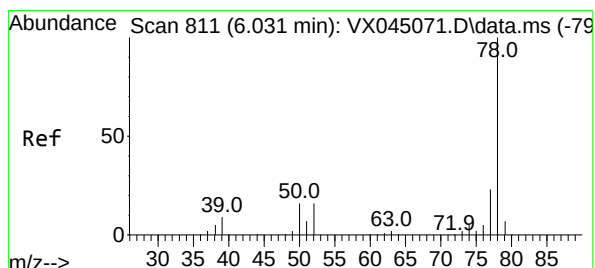
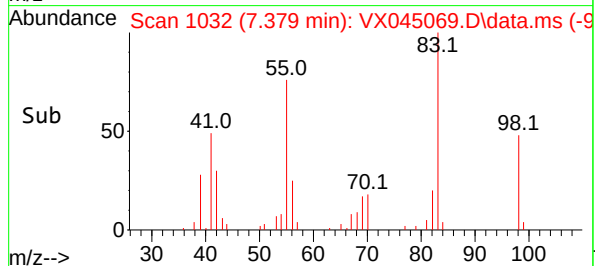
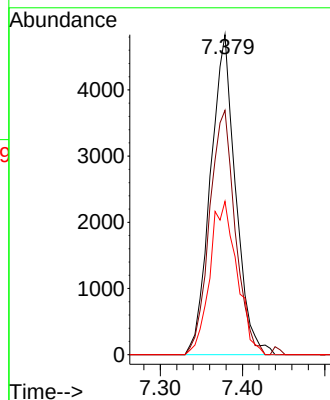
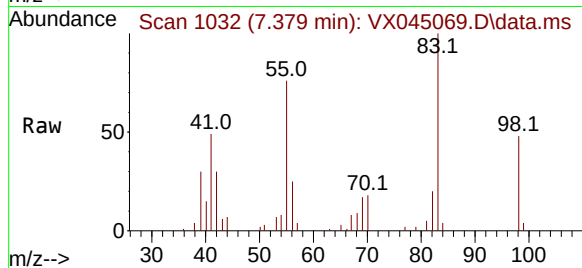
98 47.9 39.7 59.5

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

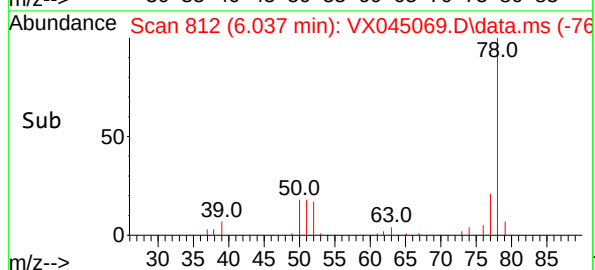
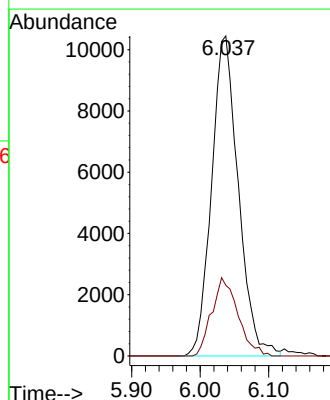
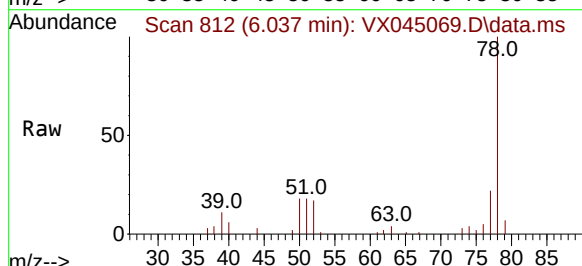
Acq: 28 Feb 2025 02:13

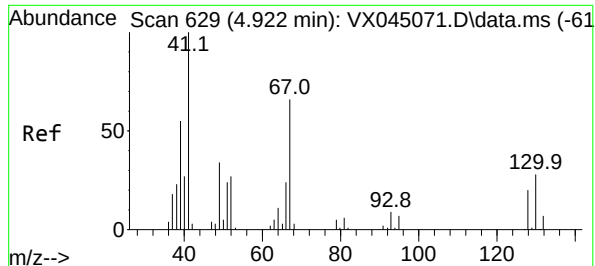
Tgt Ion: 78 Resp: 28339

Ion Ratio Lower Upper

78 100

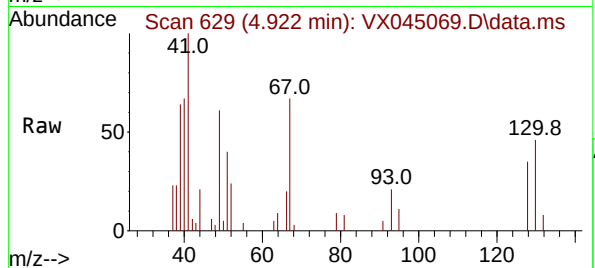
77 22.1 18.8 28.2





#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

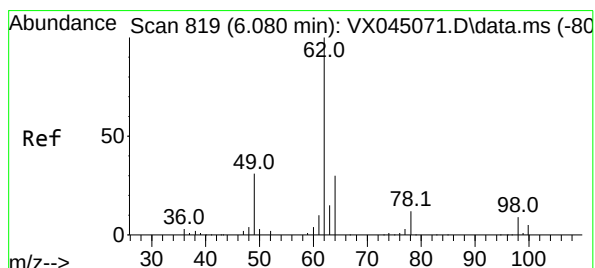
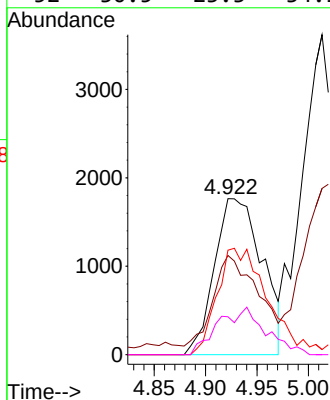
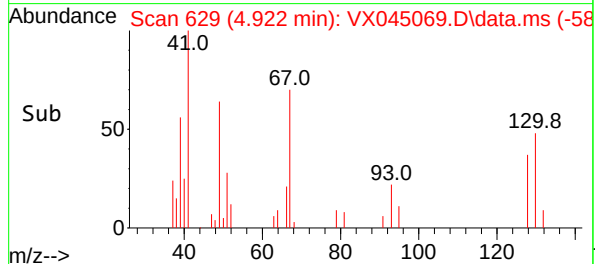
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



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

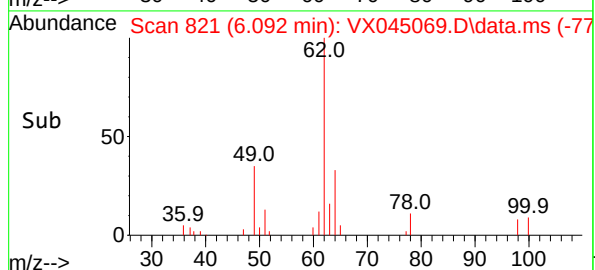
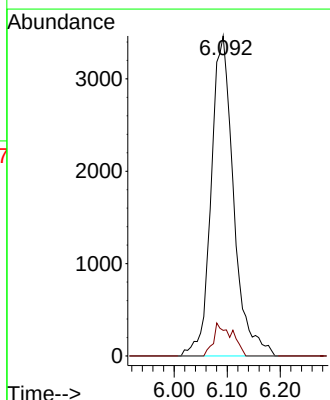
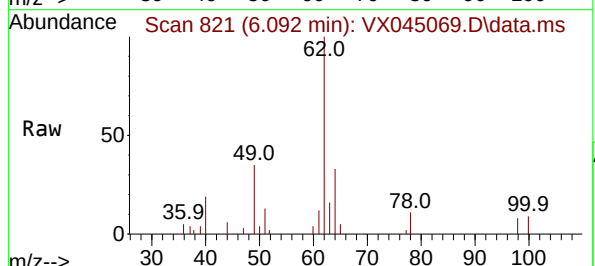
Manual Integrations
APPROVED

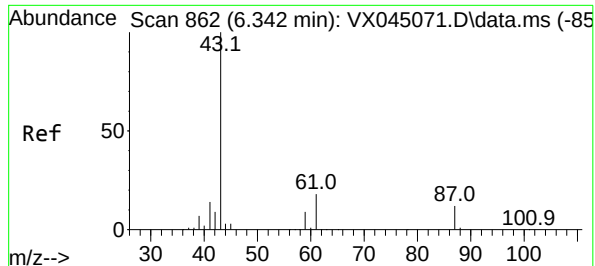
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

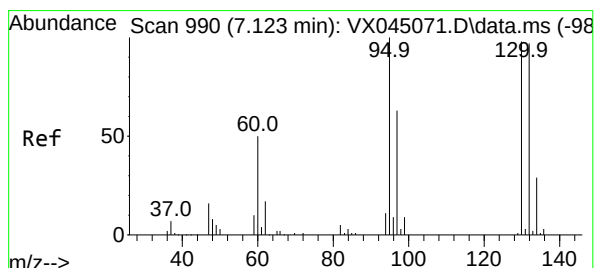
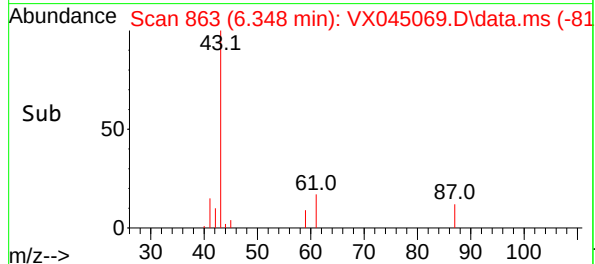
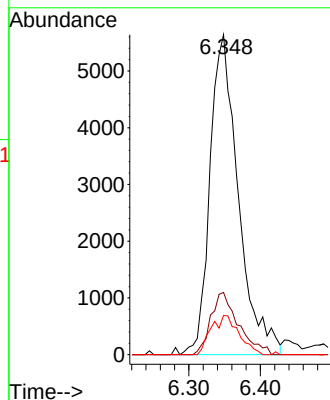
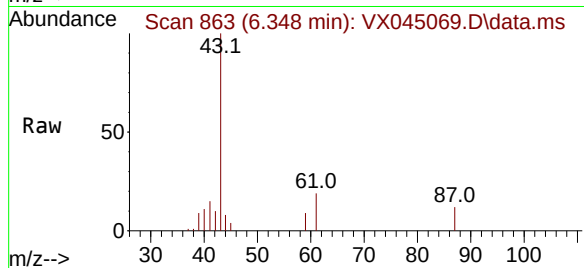
Tgt Ion: 43	Resp: 1554
Ion Ratio	Lower Upper
43	100
61	19.0 14.9 22.3
87	12.1 9.4 14.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#44

Trichloroethene

Concen: 5.234 ug/l

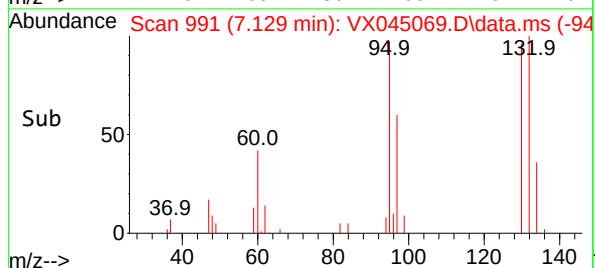
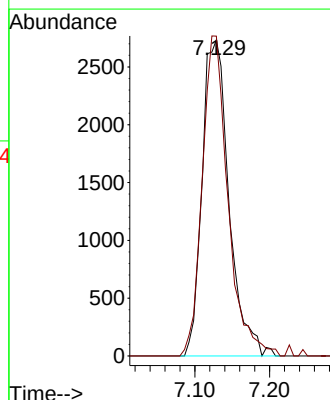
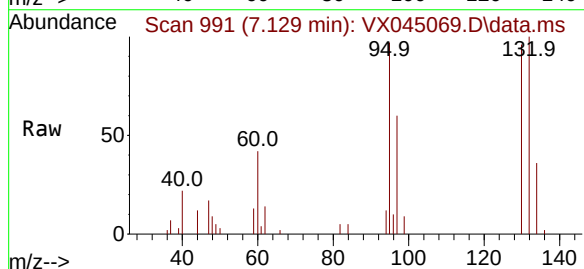
RT: 7.129 min Scan# 991

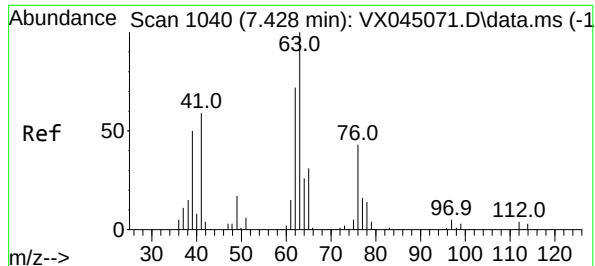
Delta R.T. 0.006 min

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 :

VSTDICC005

Tgt Ion: 63 Resp: 734

Ion Ratio Lower Upper

63 100

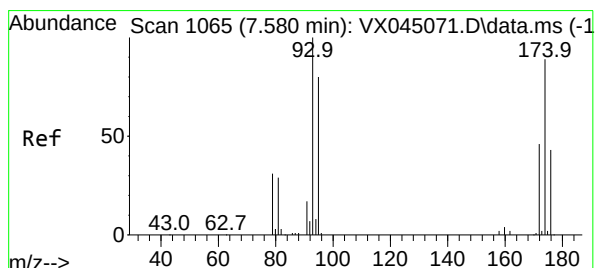
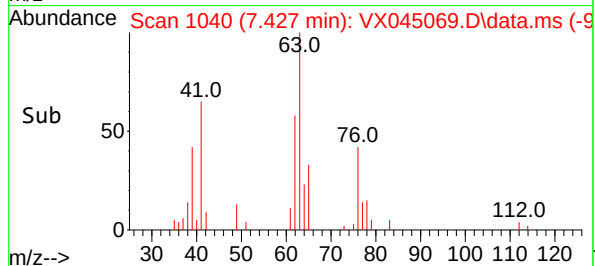
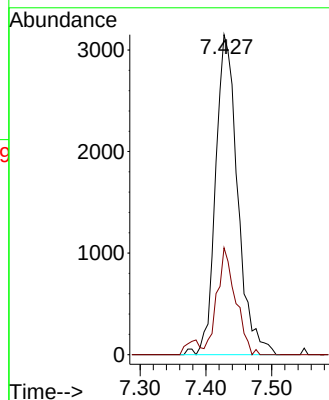
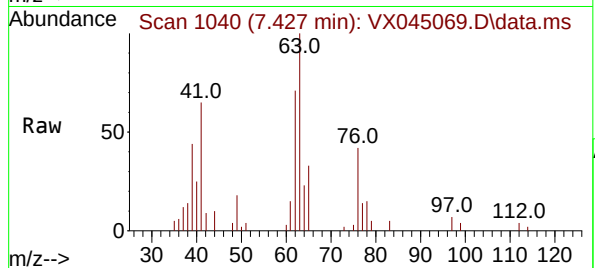
65 33.4 24.7 37.1

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

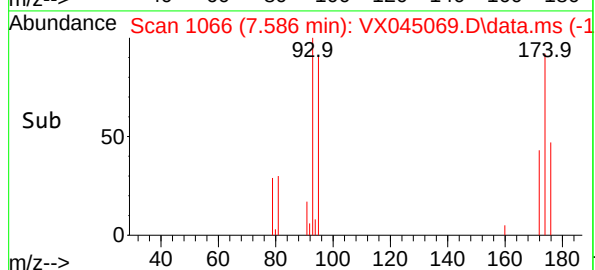
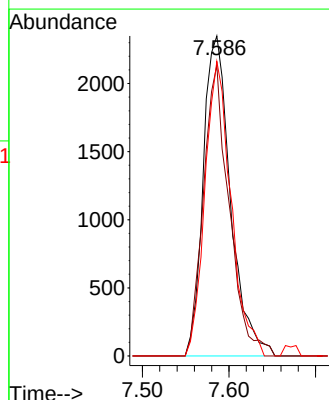
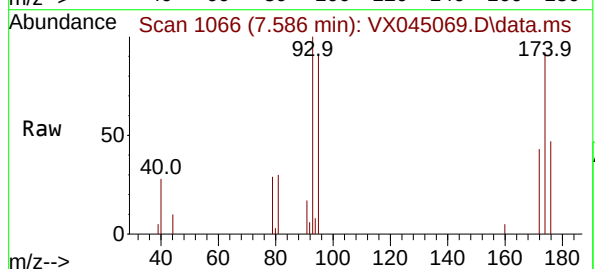
Tgt Ion: 93 Resp: 5146

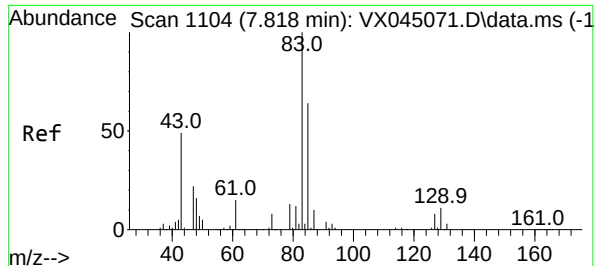
Ion Ratio Lower Upper

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

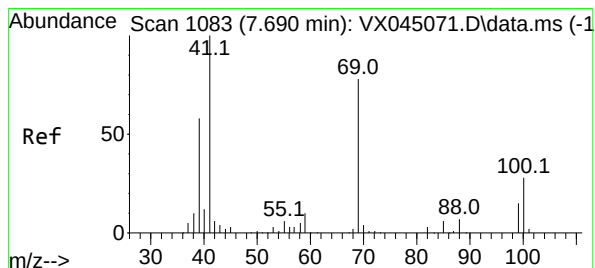
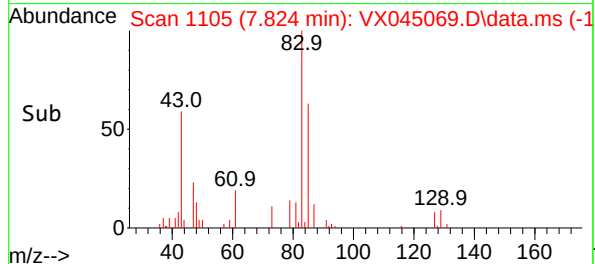
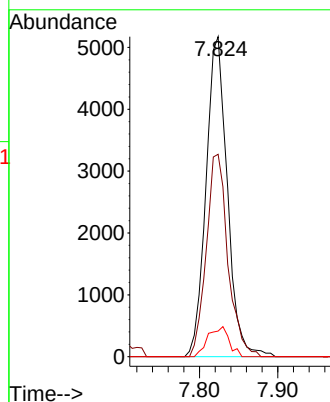
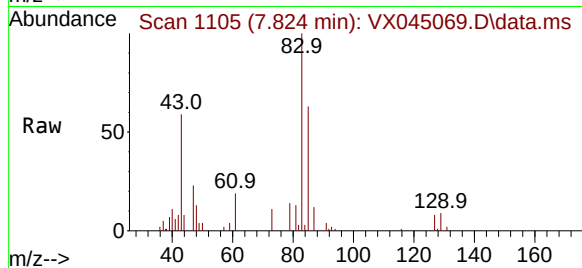
Tgt Ion:	83	Resp:	977
Ion	Ratio	Lower	Upper
83	100		
85	63.3	51.1	76.7
127	8.0	6.4	9.6

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

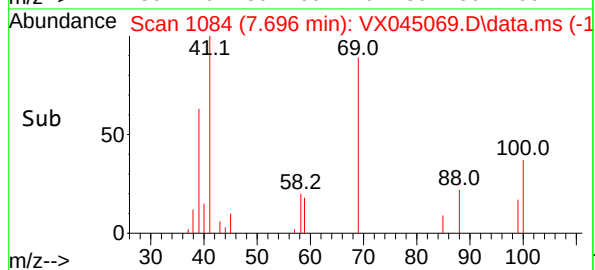
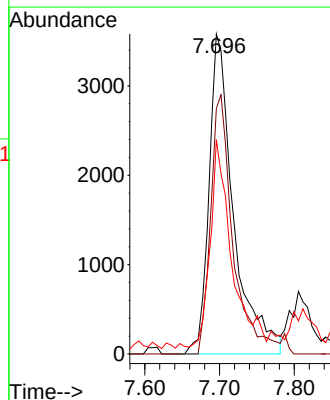
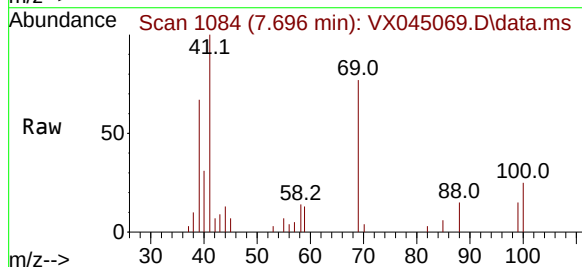
RT: 7.696 min Scan# 1084

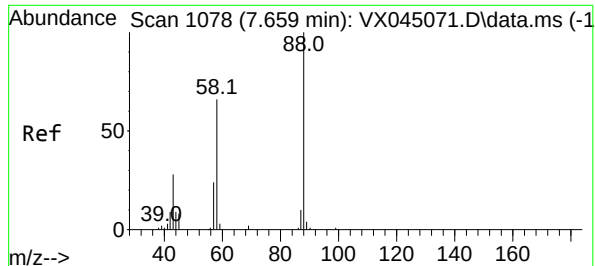
Delta R.T. 0.006 min

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

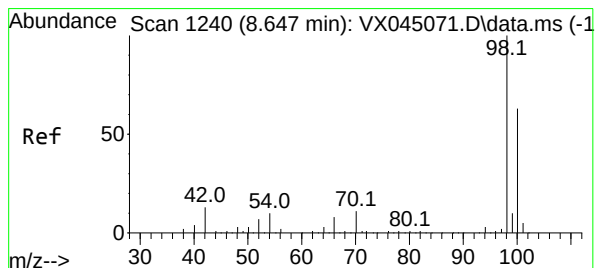
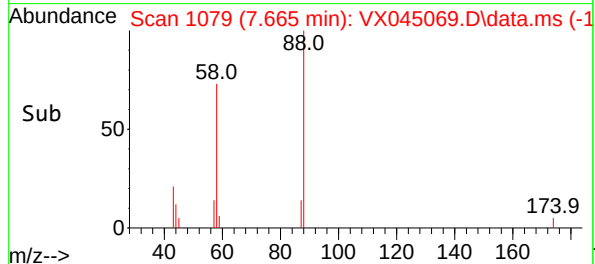
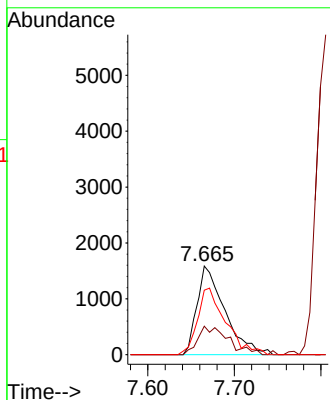
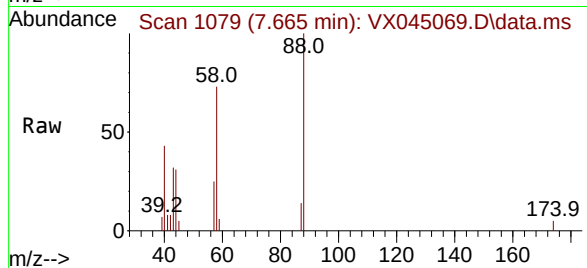
Tgt Ion:	88	Resp:	353
Ion	Ratio	Lower	Upper
88	100		
43	35.2	28.7	43.1
58	75.9	55.8	83.8

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

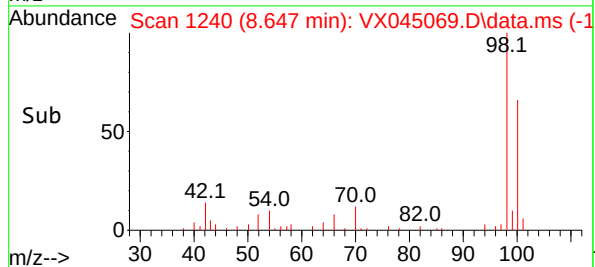
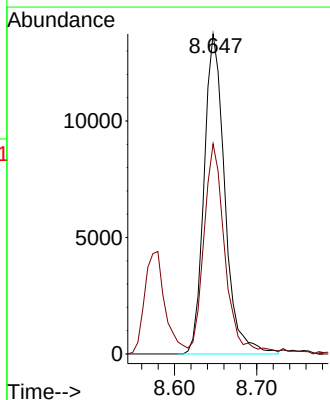
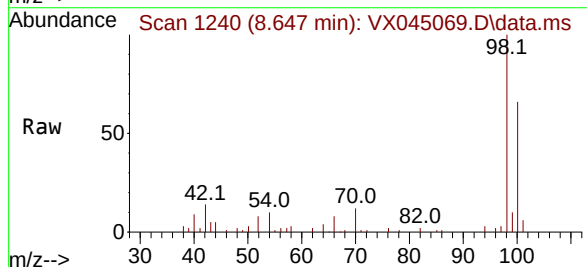
RT: 8.647 min Scan# 1240

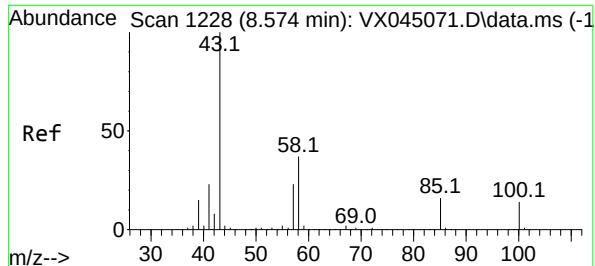
Delta R.T. -0.000 min

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

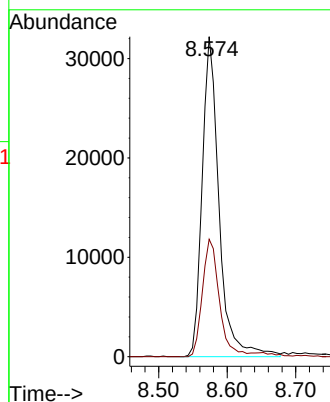
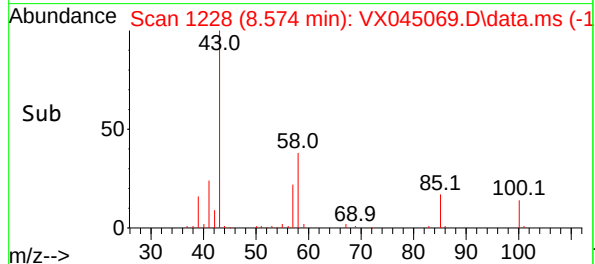
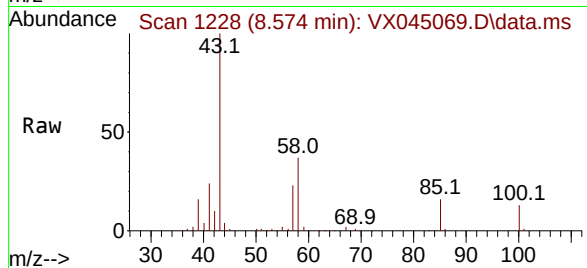
Acq: 28 Feb 2025 02:13

Tgt Ion: 43 Resp: 55320

Ion Ratio Lower Upper

43 100

58 36.8 29.2 43.8



Instrument :

MSVOA_X

ClientSampleId :

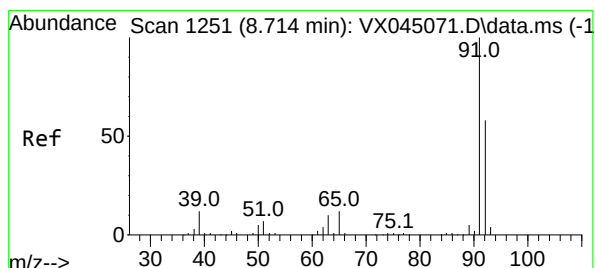
VSTDIC005

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

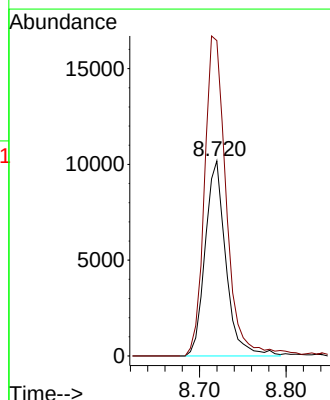
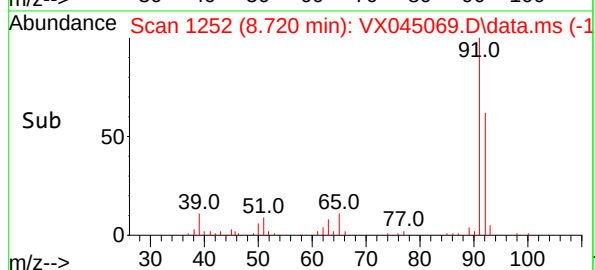
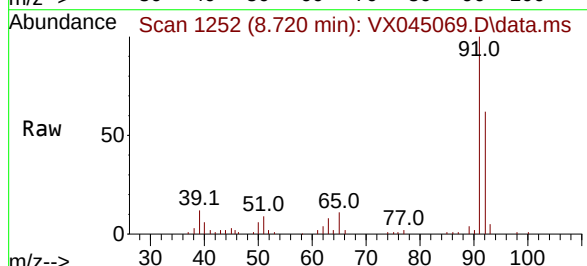
Acq: 28 Feb 2025 02:13

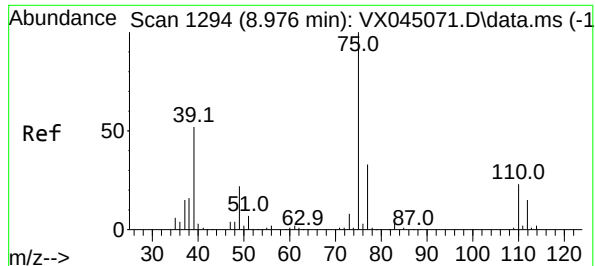
Tgt Ion: 92 Resp: 16933

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

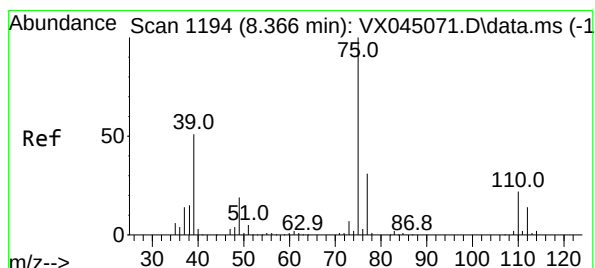
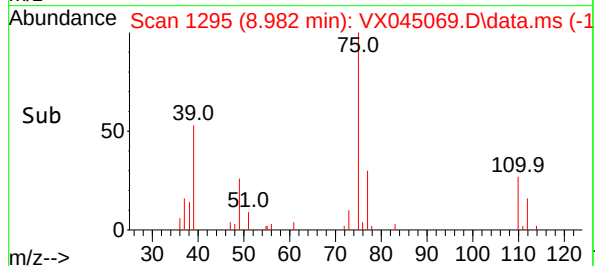
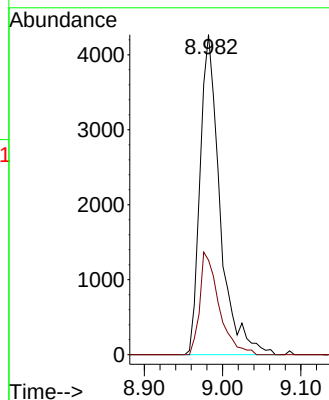
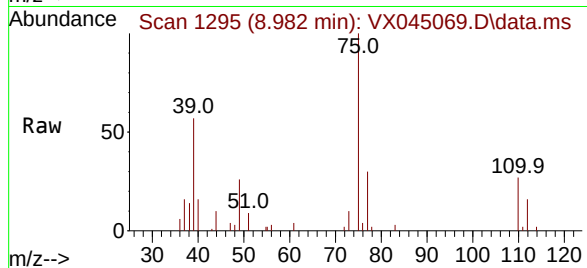
77 29.6 26.5 39.7

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

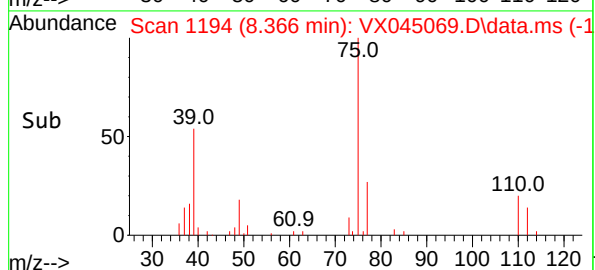
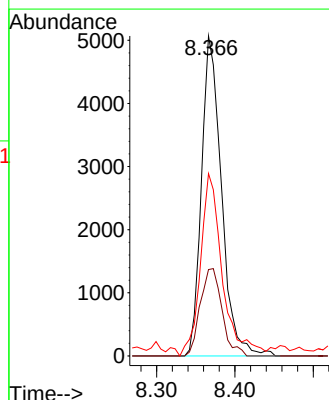
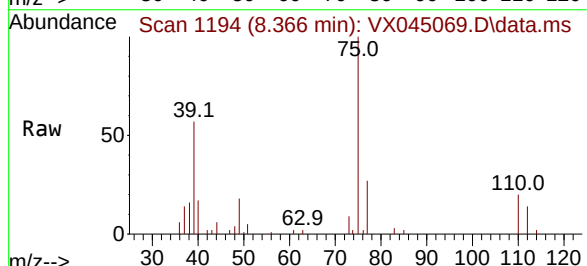
Tgt Ion: 75 Resp: 8988

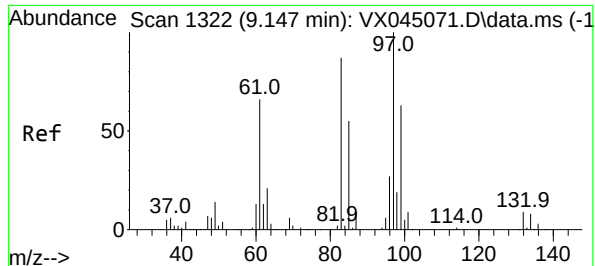
Ion Ratio Lower Upper

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

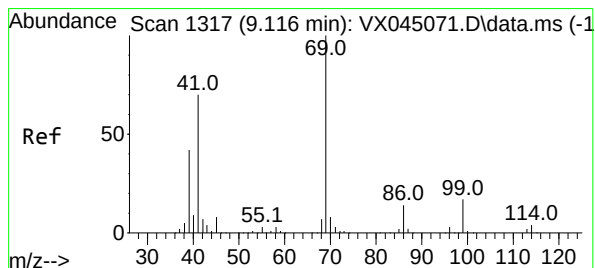
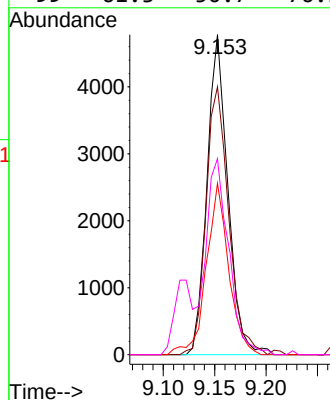
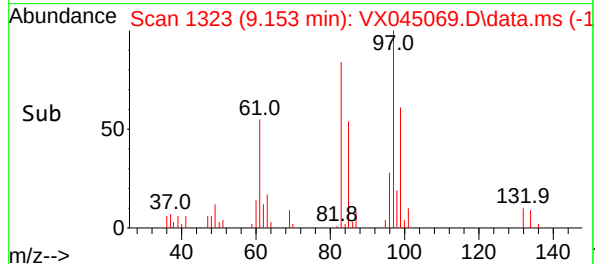
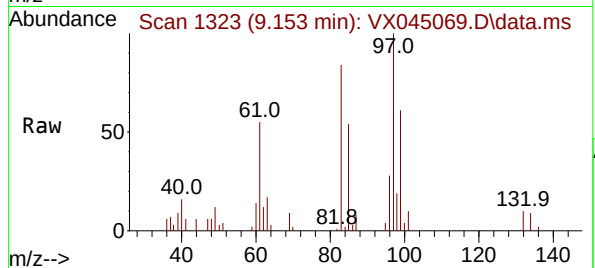
99 61.3 50.7 76.1

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

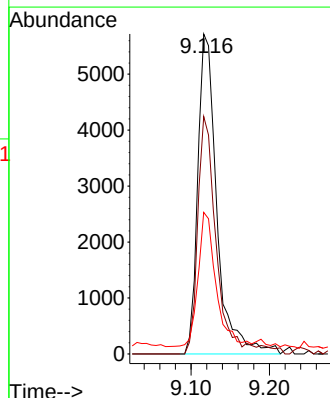
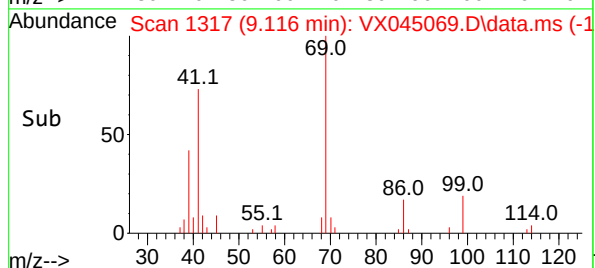
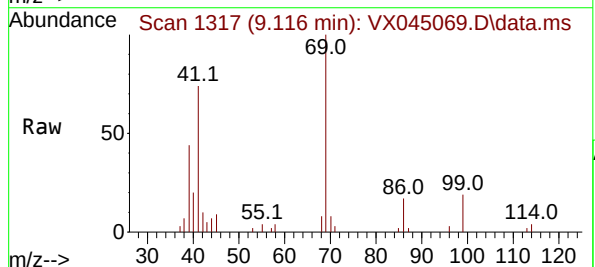
Tgt Ion: 69 Resp: 9712

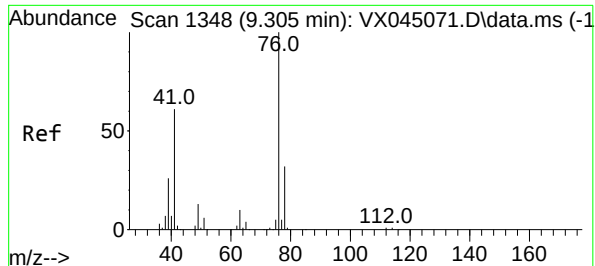
Ion Ratio Lower Upper

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# 11

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

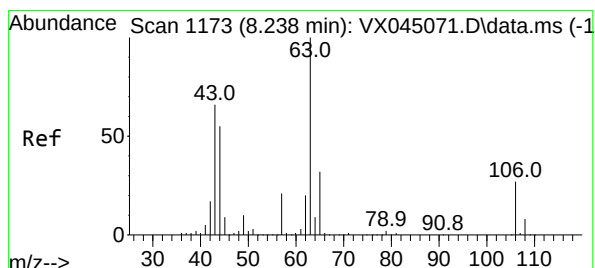
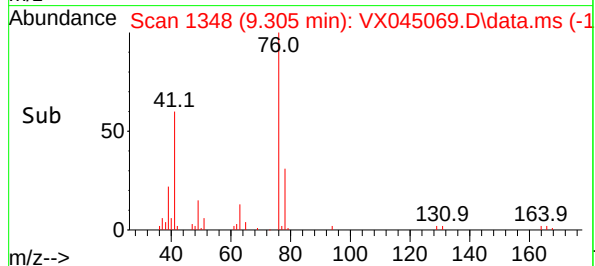
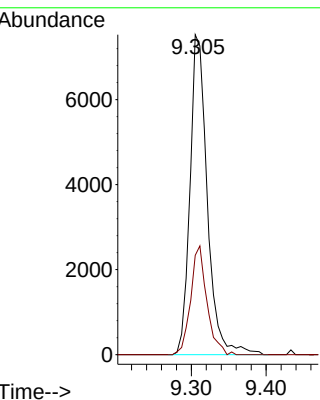
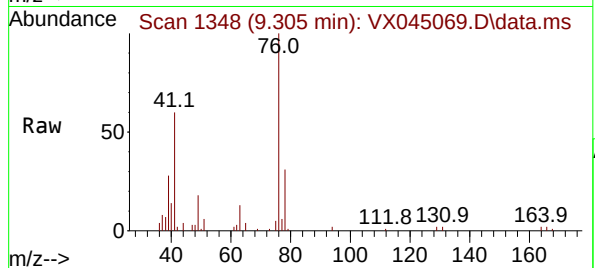
78 31.9 25.5 38.3

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

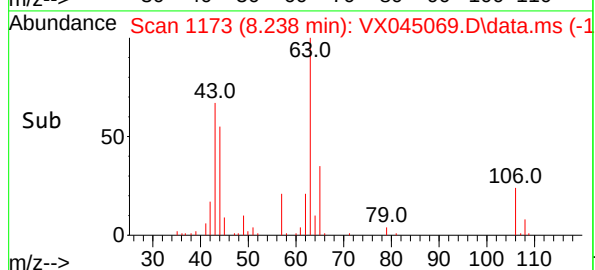
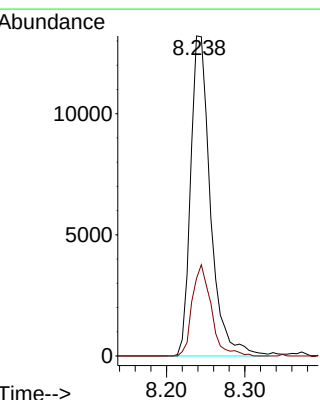
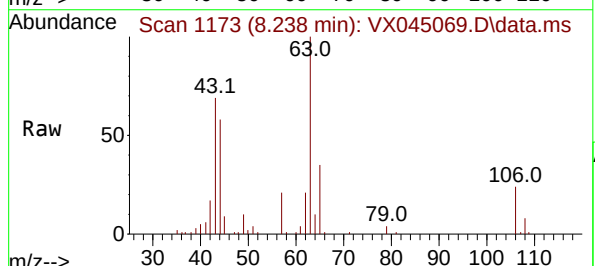
Acq: 28 Feb 2025 02:13

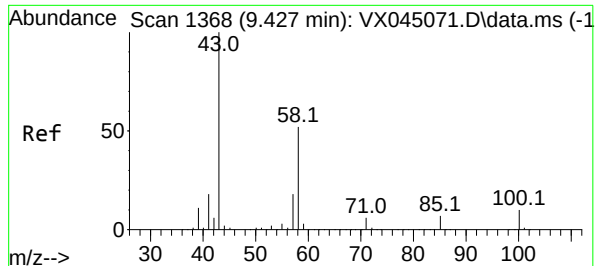
Tgt Ion: 63 Resp: 23212

Ion Ratio Lower Upper

63 100

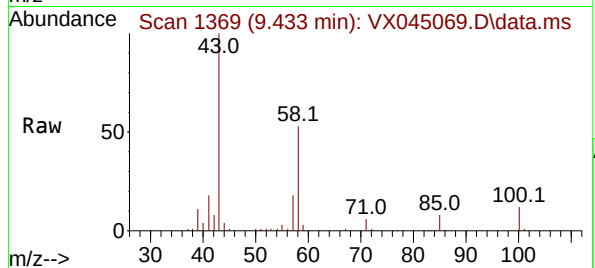
106 27.4 21.5 32.3





#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

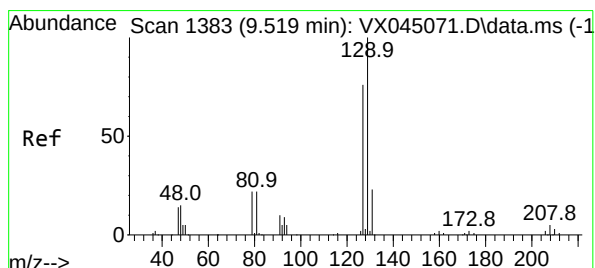
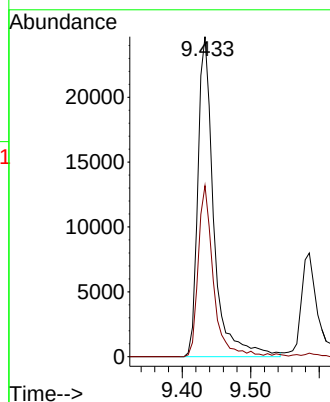
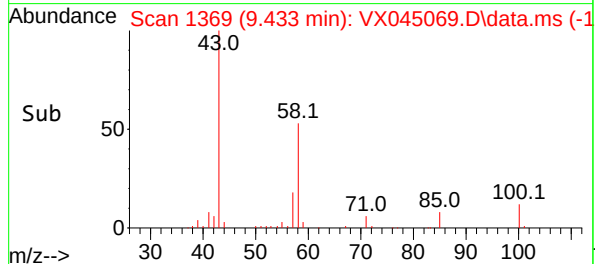
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



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

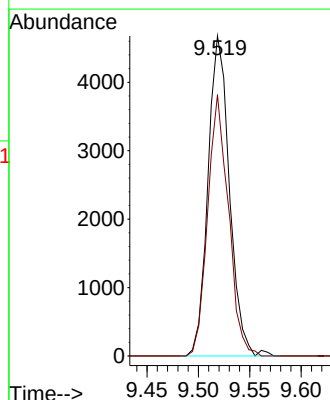
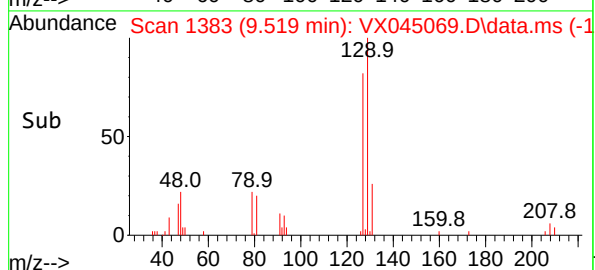
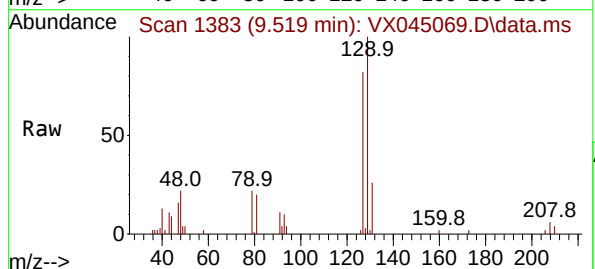
Manual Integrations
APPROVED

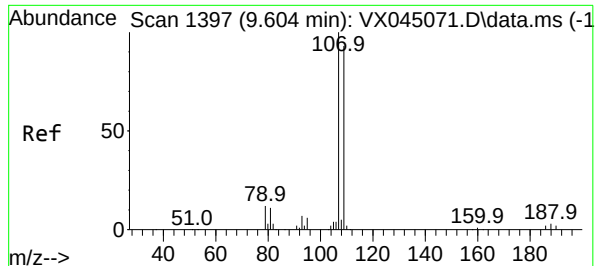
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





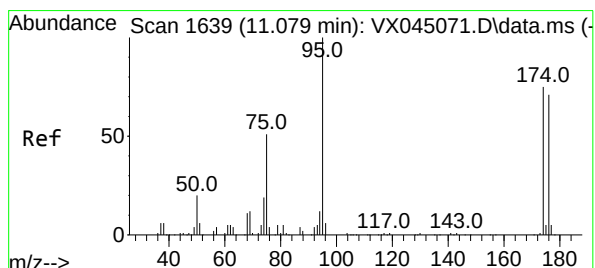
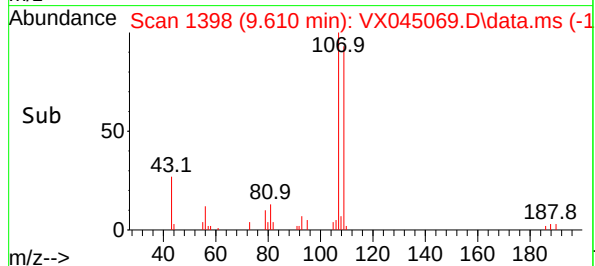
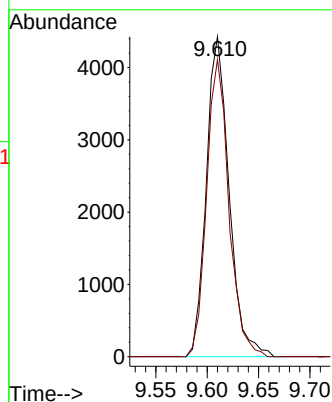
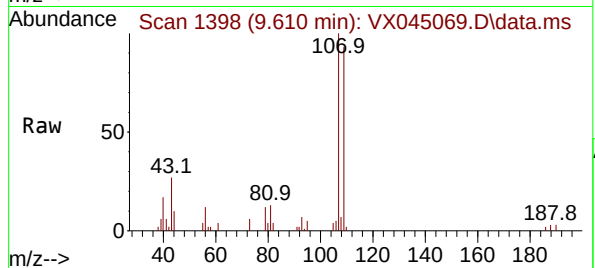
#61
1,2-Dibromoethane
Concen: 5.161 ug/l
RT: 9.610 min Scan# 1397
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

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

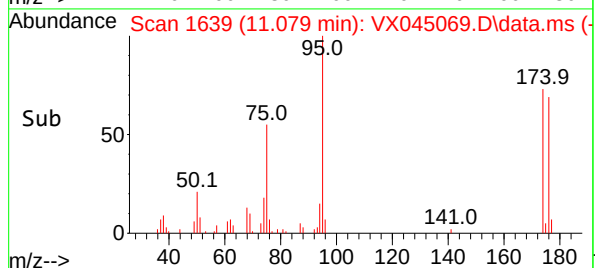
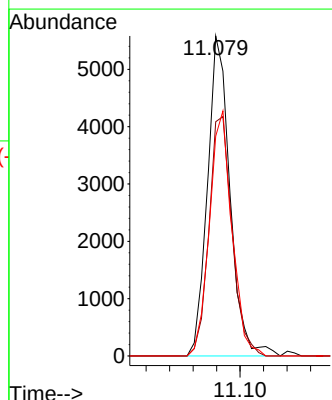
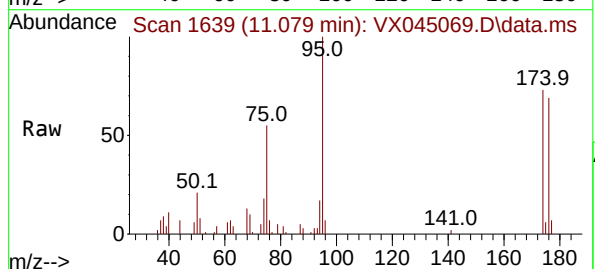
Manual Integrations
APPROVED

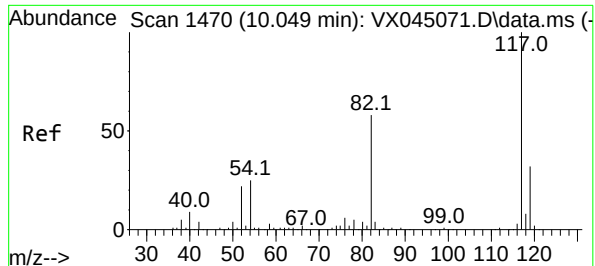
Reviewed By :John Carbone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





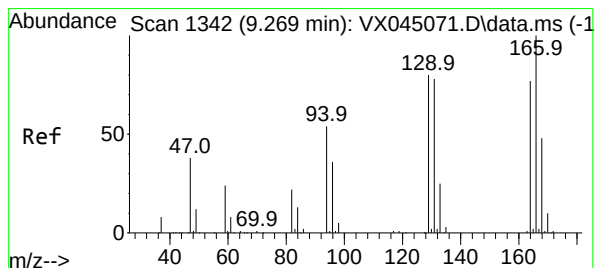
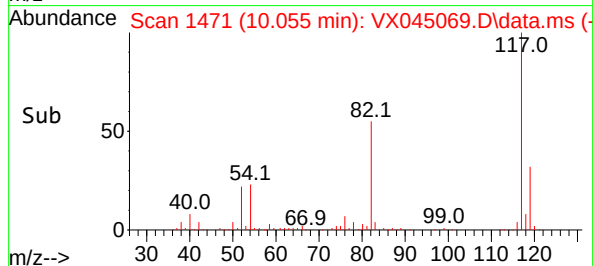
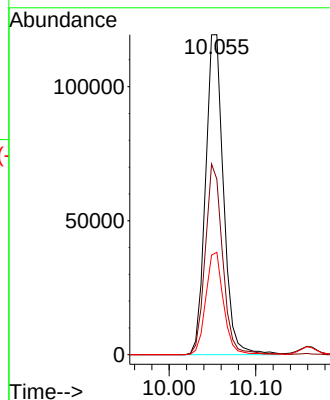
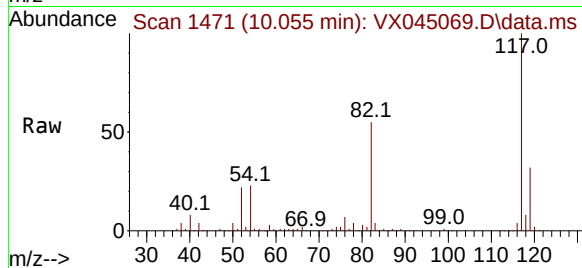
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

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

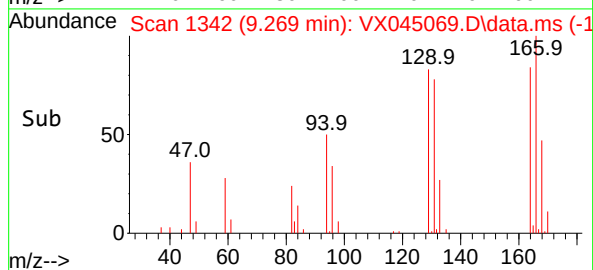
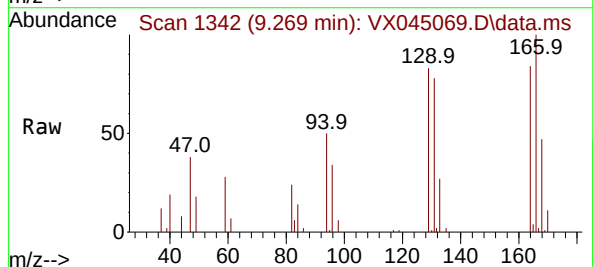
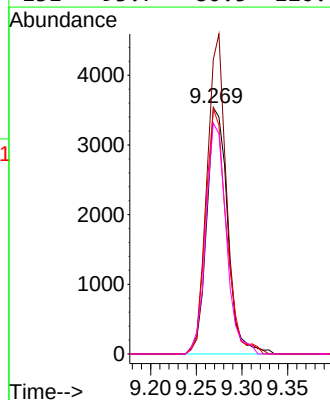
Manual Integrations
APPROVED

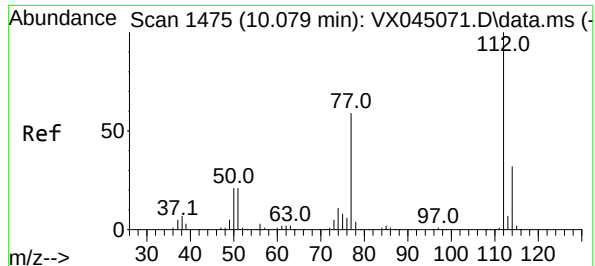
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

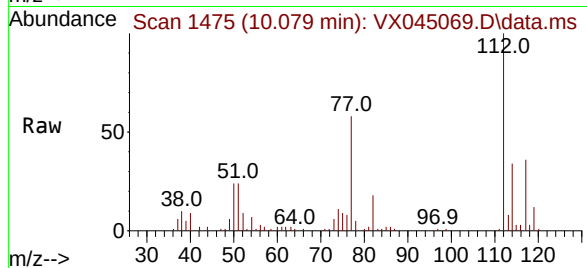
Tgt Ion:164 Resp: 5615
Ion Ratio Lower Upper
164 100
166 119.5 103.6 155.4
129 99.7 82.7 124.1
131 93.7 80.5 120.7





#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

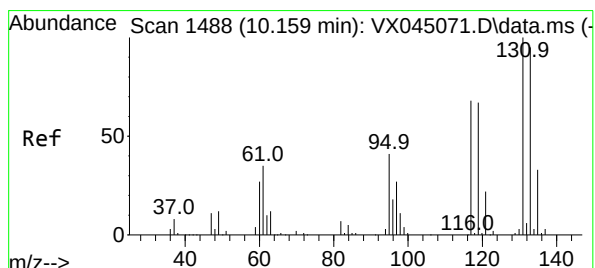
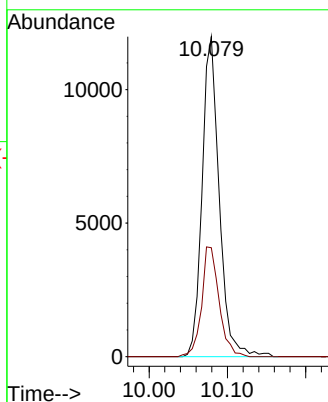
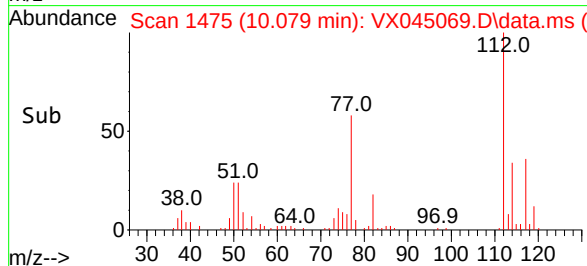
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



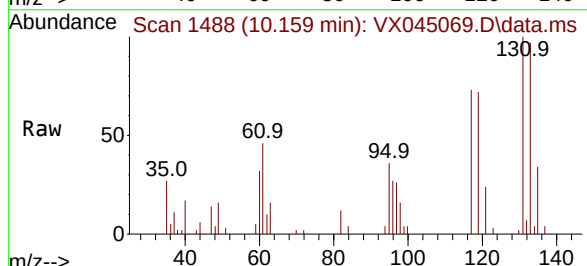
Tgt Ion:112 Resp: 1816
Ion Ratio Lower Upper
112 100
114 34.0 26.0 39.0

Manual Integrations
APPROVED

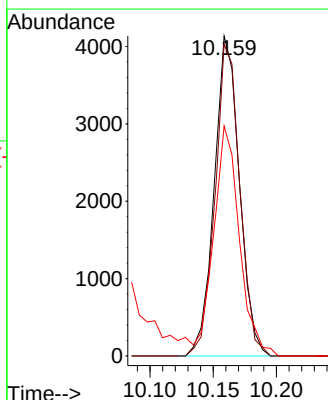
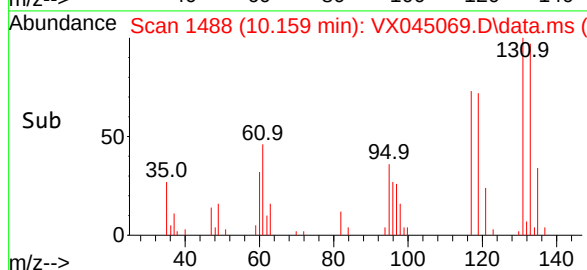
Reviewed By :John Carbone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

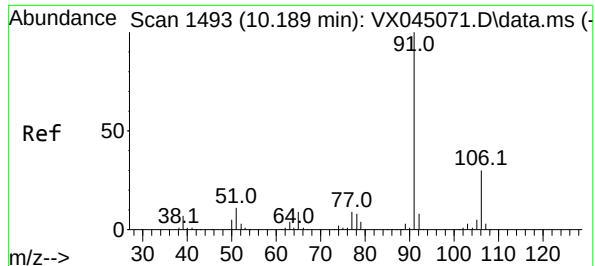


#66
1,1,1,2-Tetrachloroethane
Concen: 4.781 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13



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

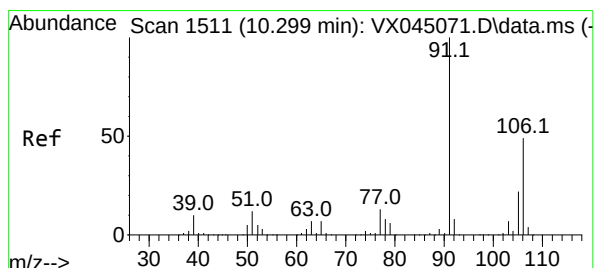
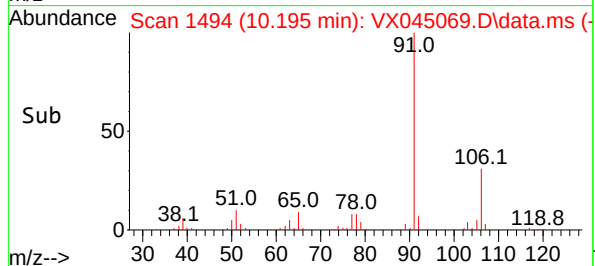
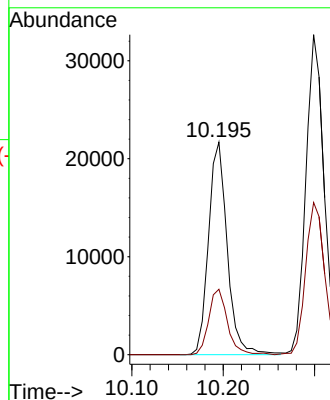
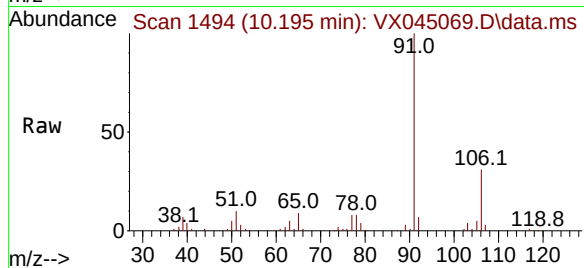
106 30.8 23.9 35.9

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

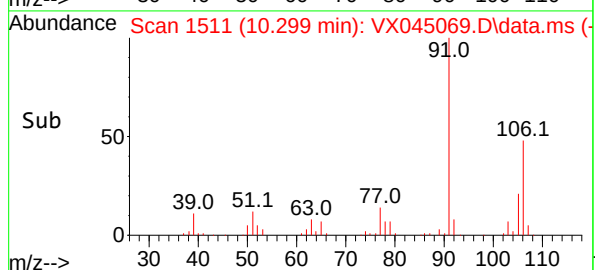
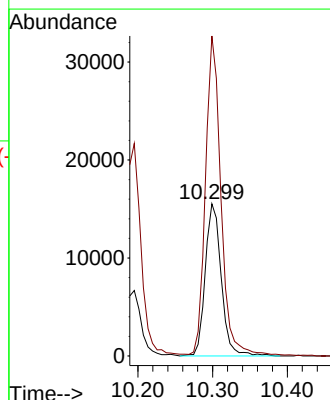
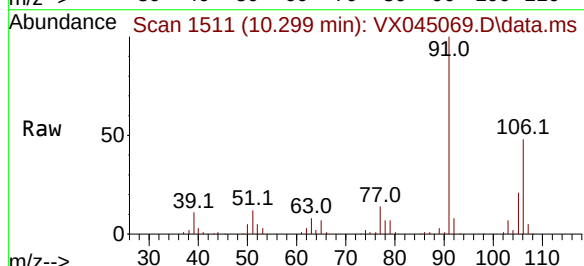
Acq: 28 Feb 2025 02:13

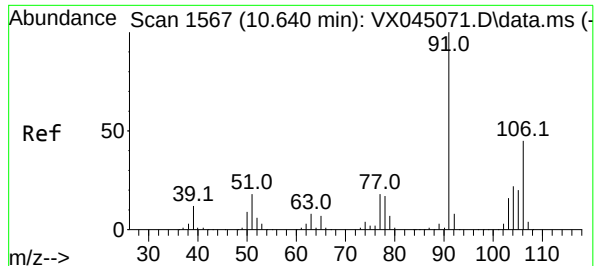
Tgt Ion:106 Resp: 23152

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 :

VSTDICC005

Tgt Ion:106 Resp: 1188

Ion Ratio Lower Upper

106 100

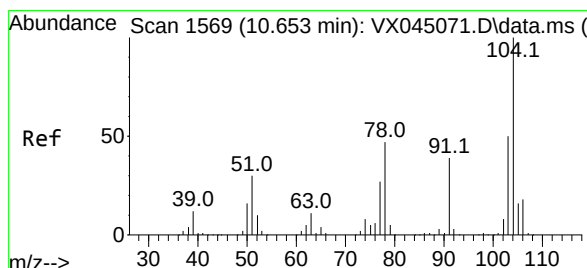
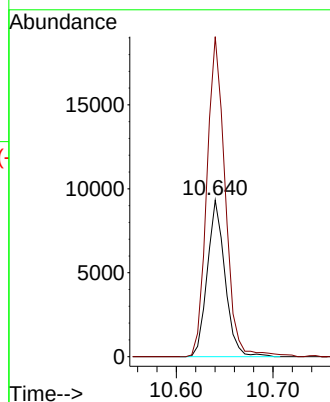
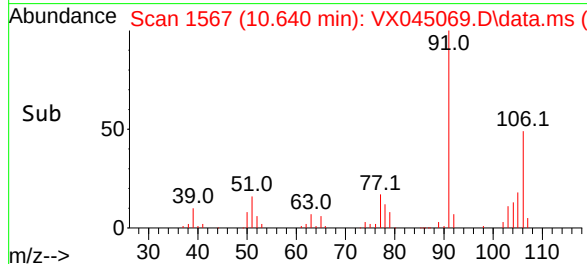
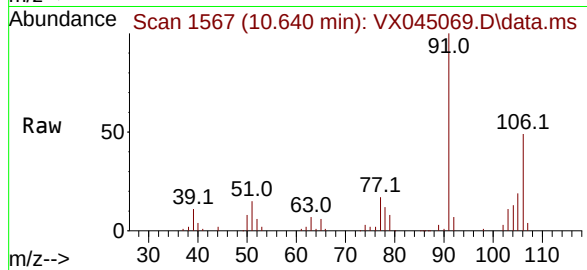
91 211.7 109.9 329.6

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

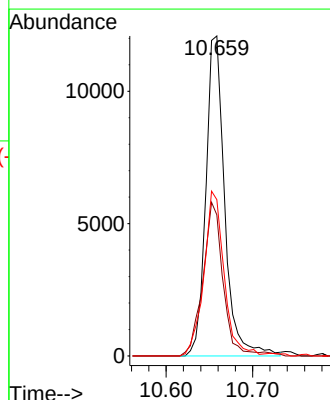
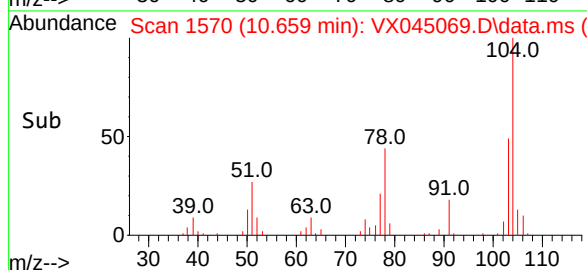
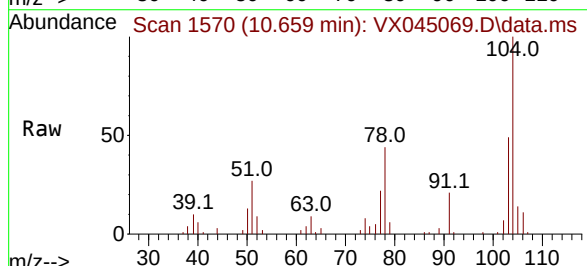
Tgt Ion:104 Resp: 18278

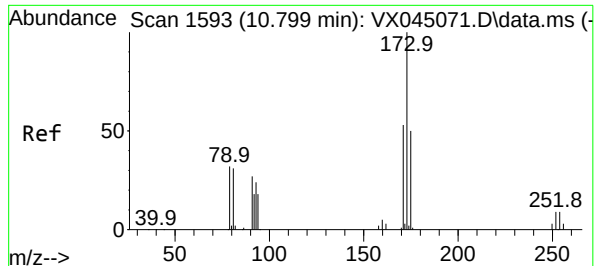
Ion Ratio Lower Upper

104 100

78 51.7 42.2 63.4

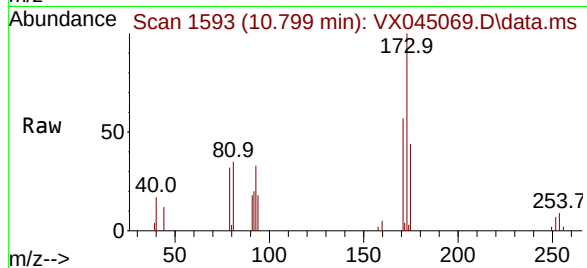
103 55.3 43.8 65.8





#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

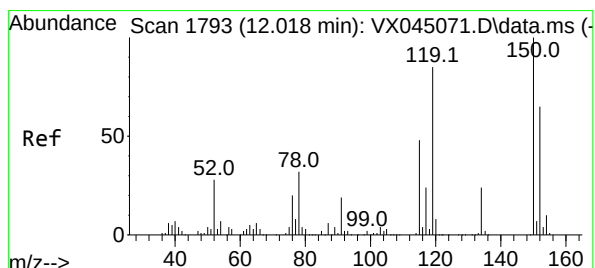
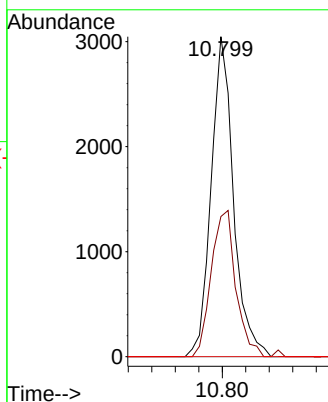
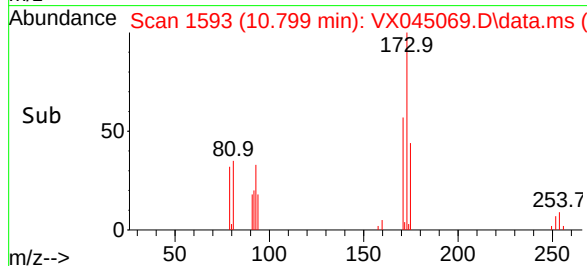
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



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

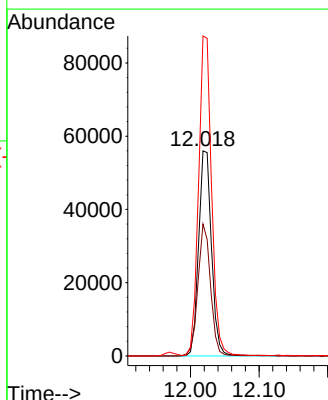
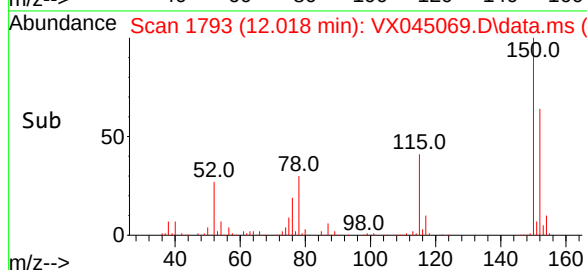
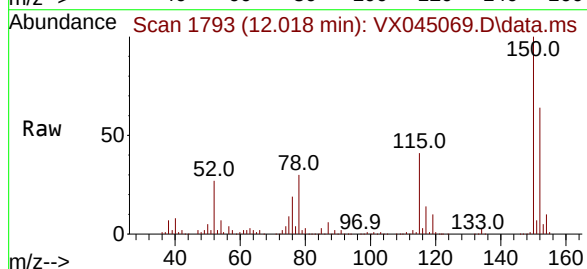
Manual Integrations
APPROVED

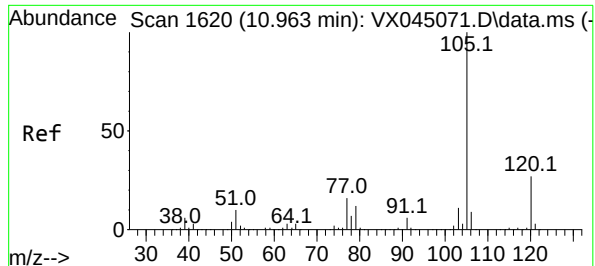
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

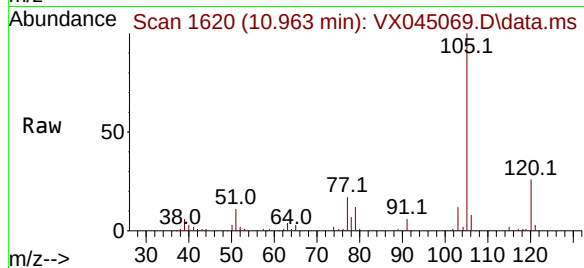
Tgt Ion:152 Resp: 73591
Ion Ratio Lower Upper
152 100
115 62.6 44.2 132.6
150 156.2 0.0 349.0





#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

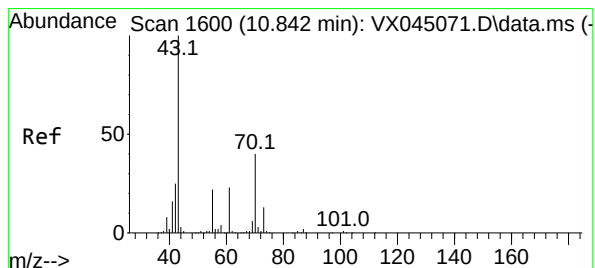
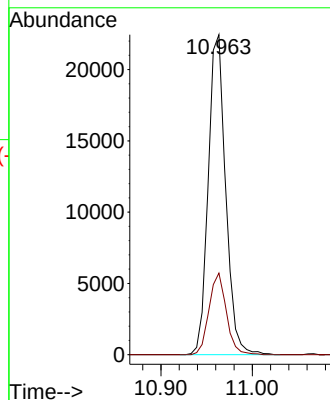
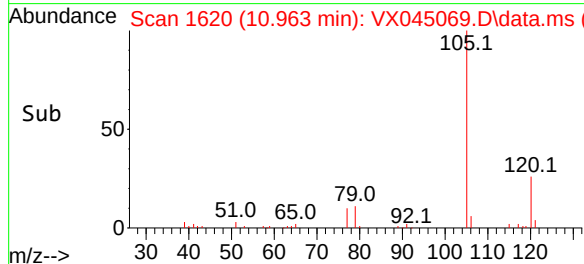
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



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

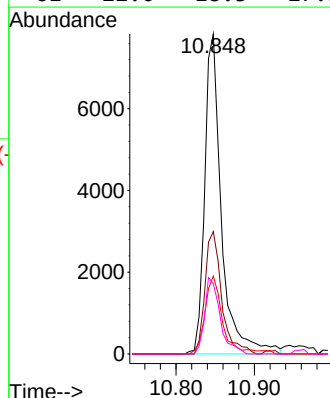
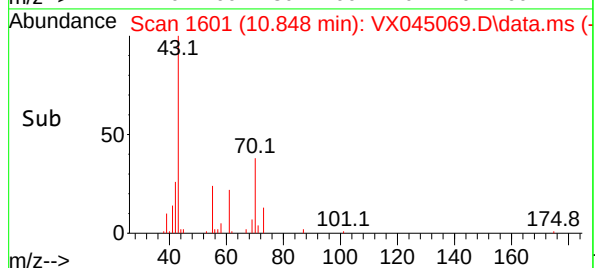
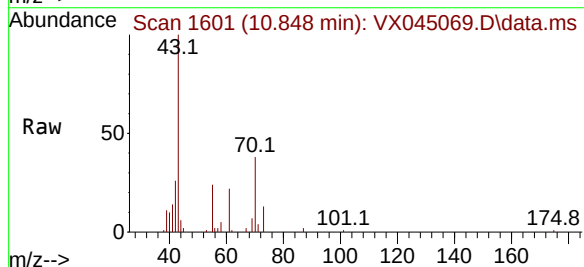
Manual Integrations
APPROVED

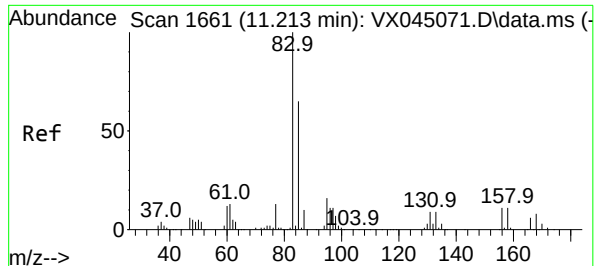
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





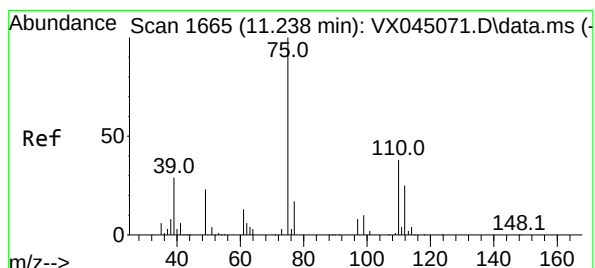
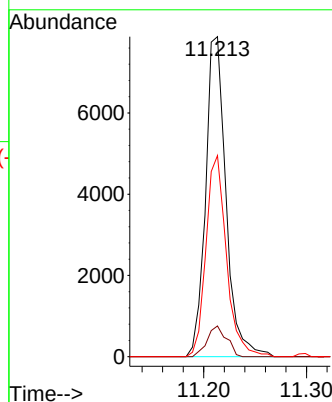
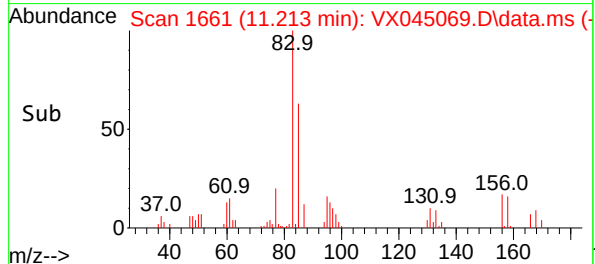
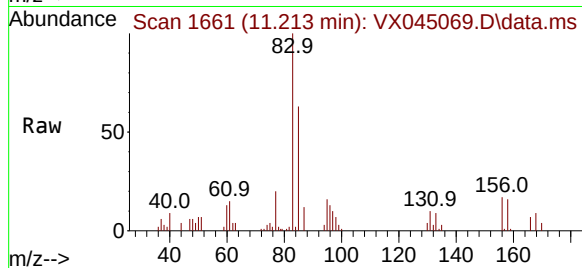
#75
1,1,2,2-Tetrachloroethane
Concen: 5.310 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

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

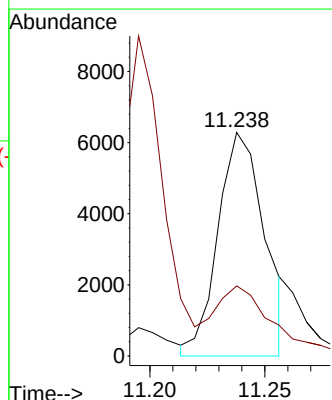
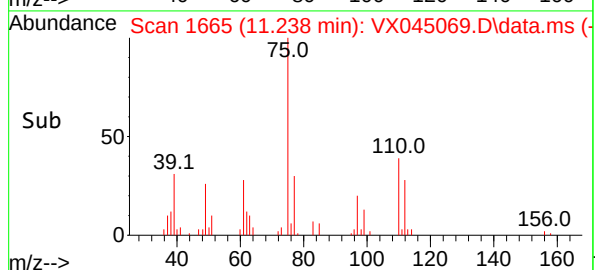
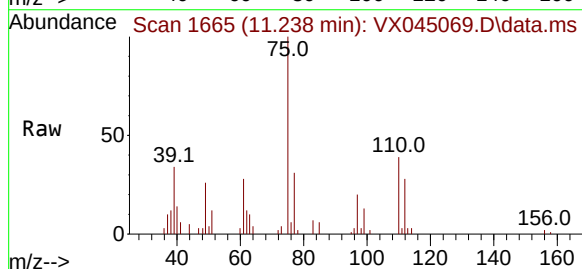
Manual Integrations
APPROVED

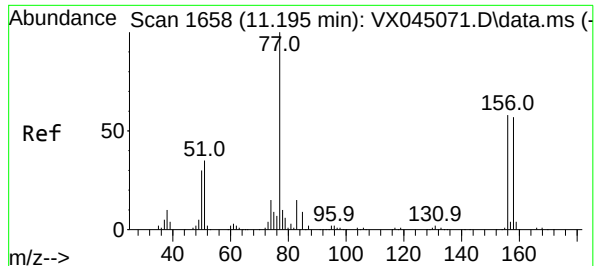
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

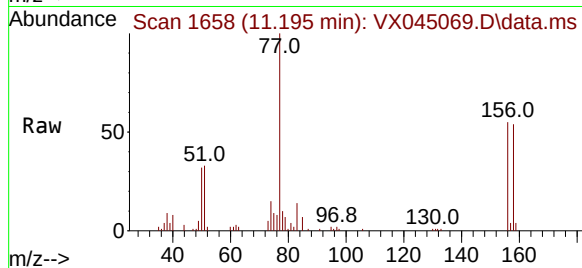
Tgt Ion: 75 Resp: 8839
Ion Ratio Lower Upper
75 100
77 39.8 20.7 62.1





#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

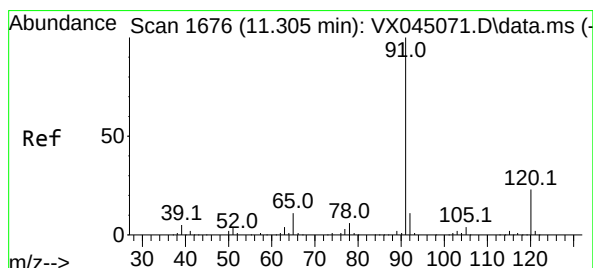
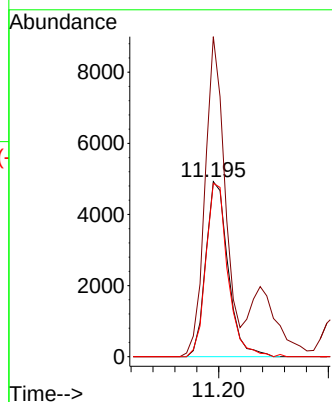
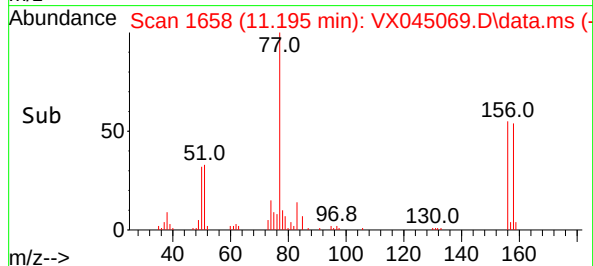
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



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

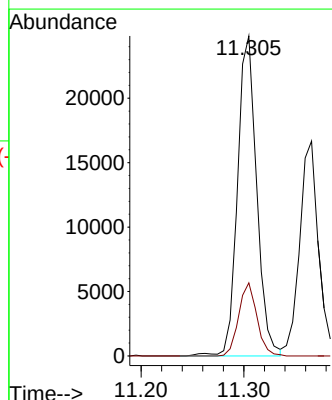
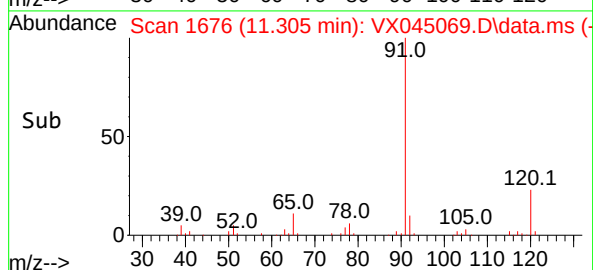
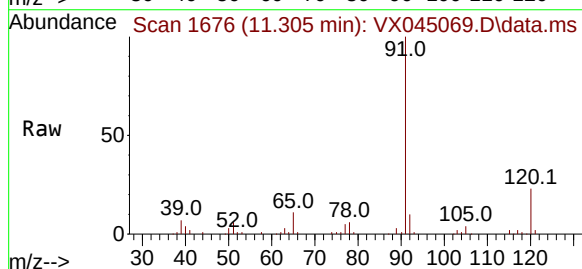
Manual Integrations
APPROVED

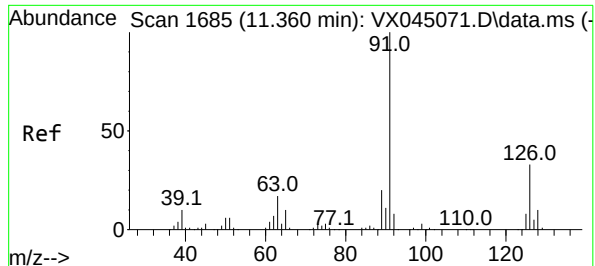
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





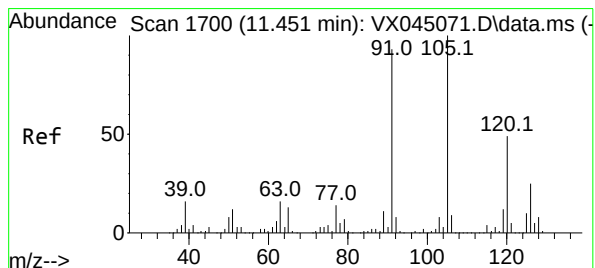
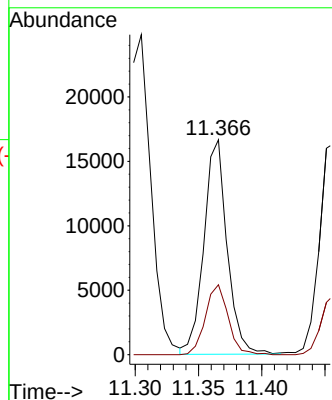
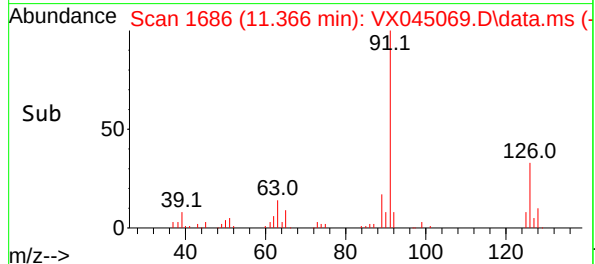
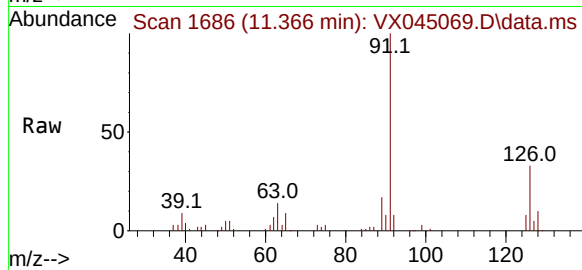
#79
2-Chlorotoluene
Concen: 5.048 ug/l
RT: 11.366 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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

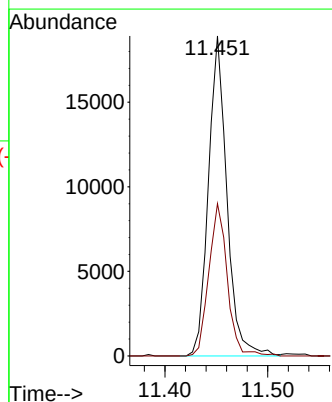
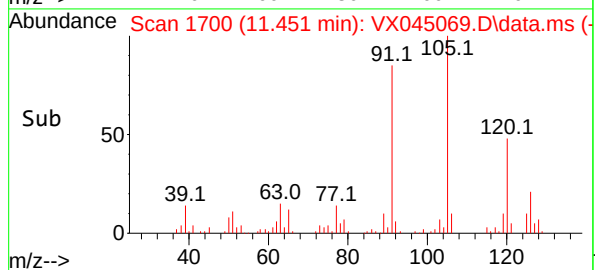
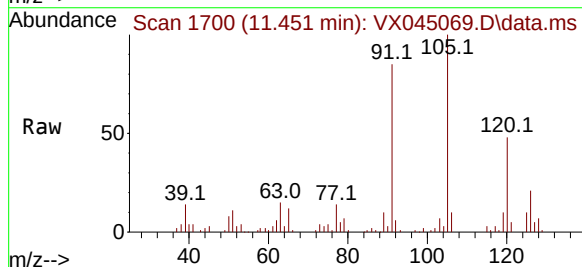
Manual Integrations
APPROVED

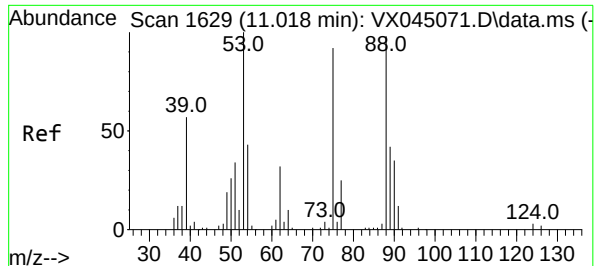
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

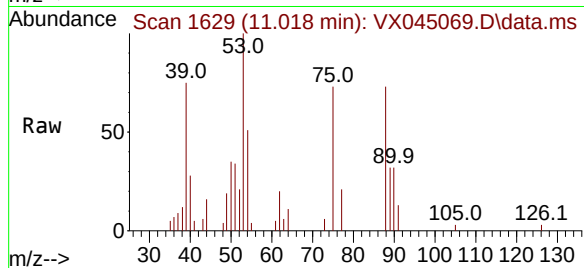
Tgt Ion:105 Resp: 23627
Ion Ratio Lower Upper
105 100
120 47.6 24.1 72.2





#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

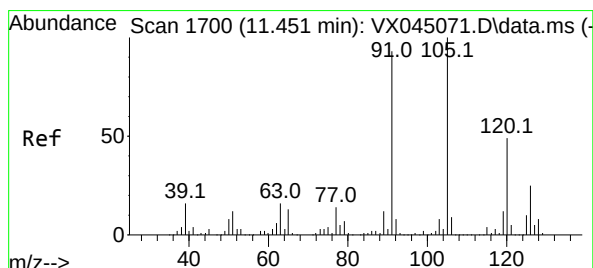
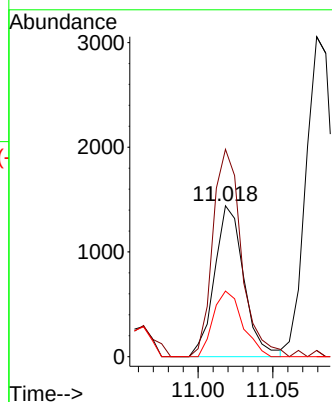
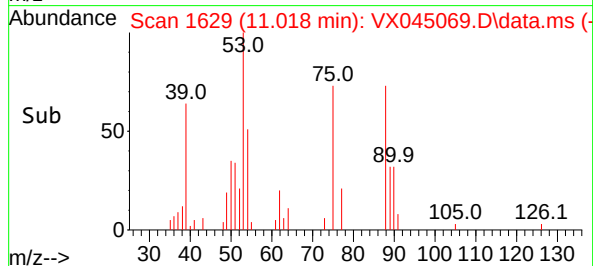
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



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

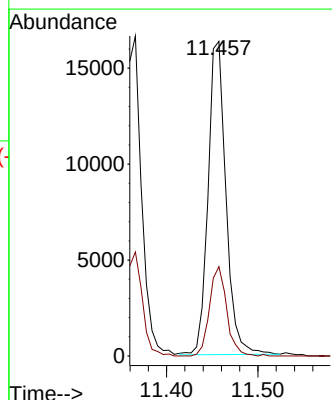
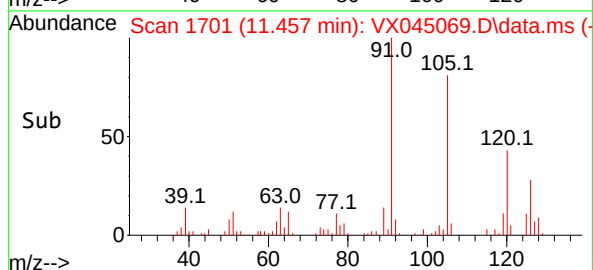
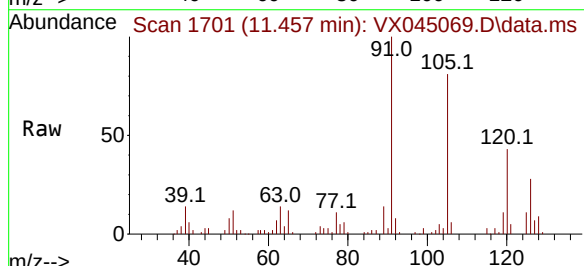
Manual Integrations
APPROVED

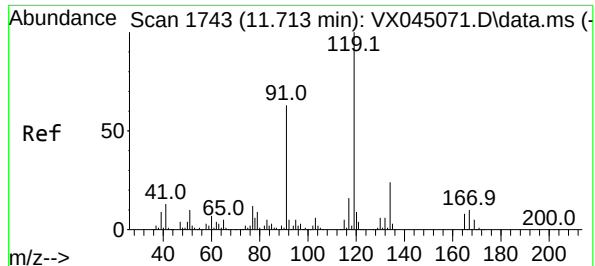
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

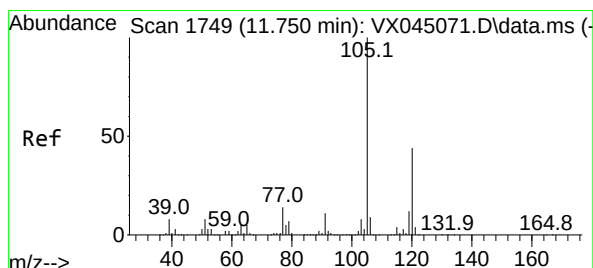
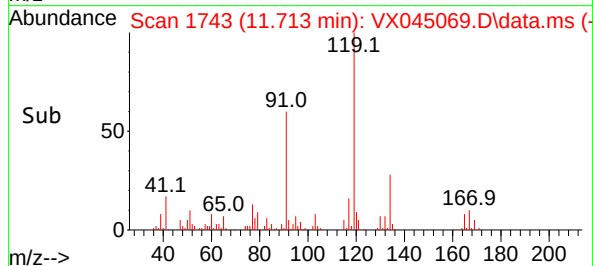
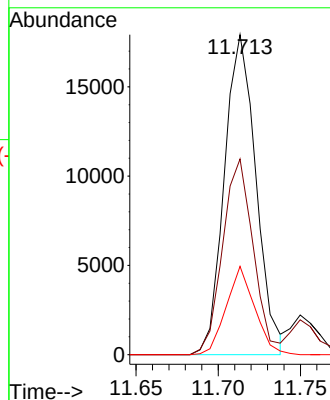
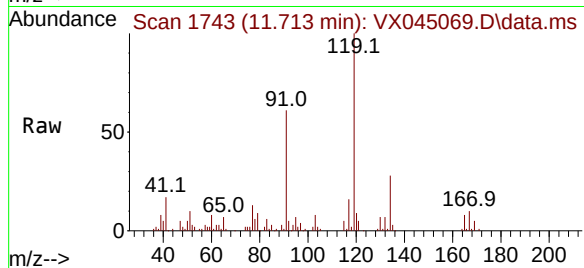
134 24.9 11.7 35.0

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

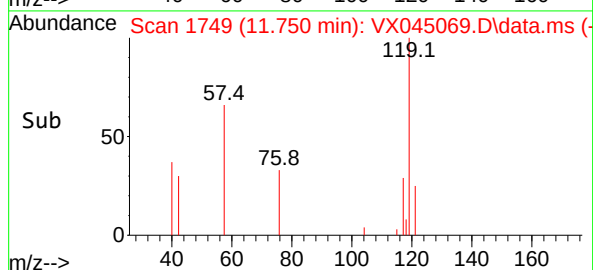
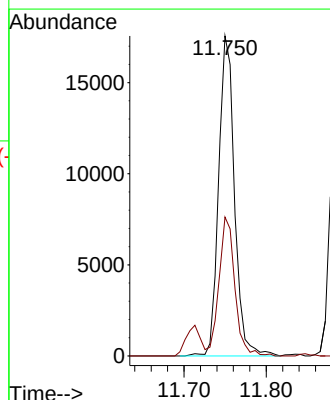
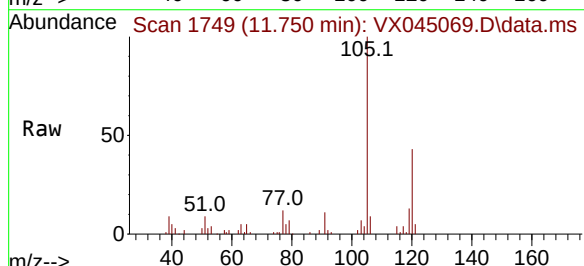
Acq: 28 Feb 2025 02:13

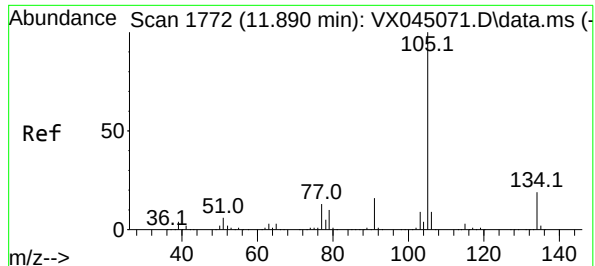
Tgt Ion:105 Resp: 23561

Ion Ratio Lower Upper

105 100

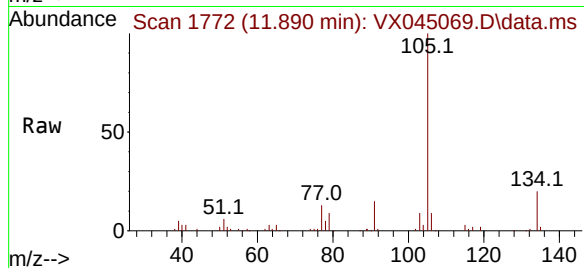
120 43.4 22.1 66.1





#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

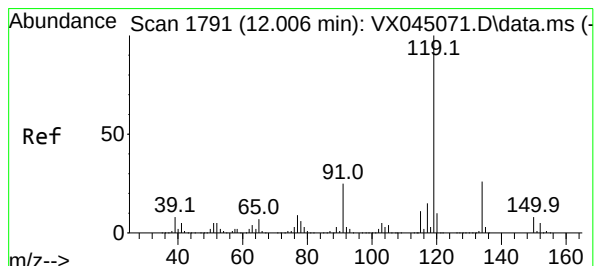
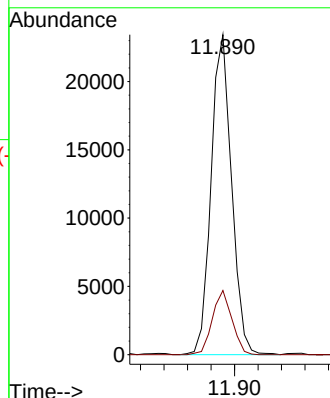
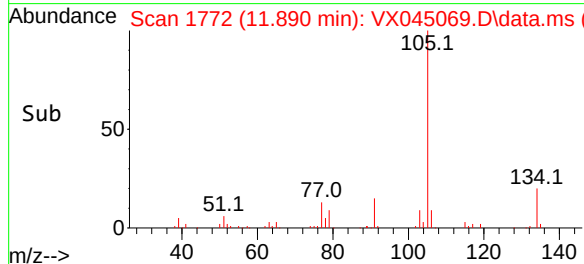
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



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

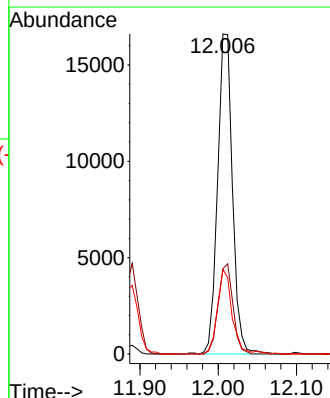
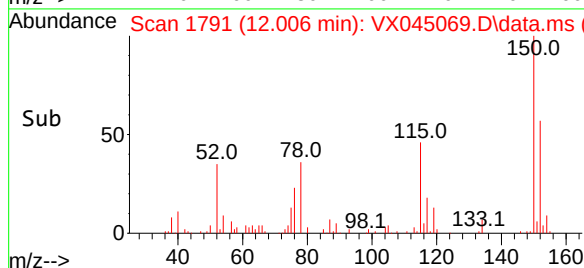
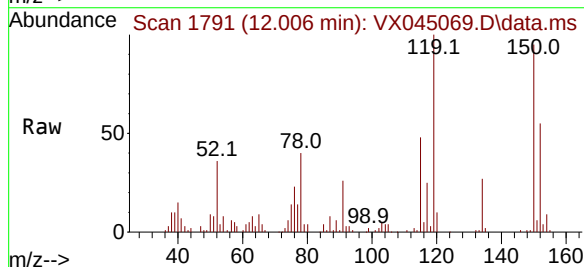
Manual Integrations
APPROVED

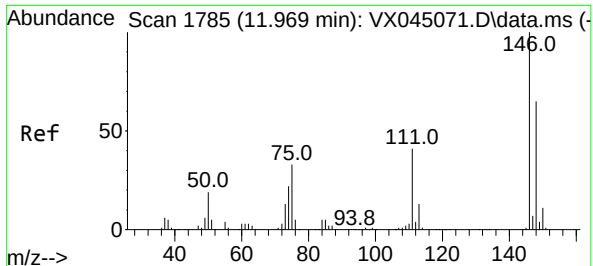
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

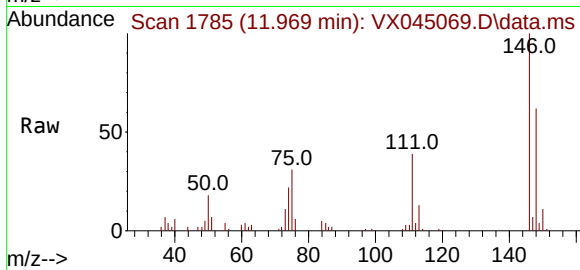
Tgt Ion:119 Resp: 21977
Ion Ratio Lower Upper
119 100
134 27.9 12.9 38.6
91 26.1 12.7 38.0





#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

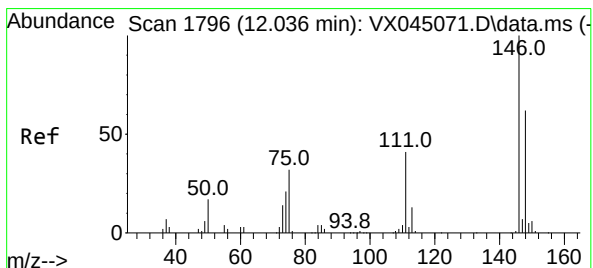
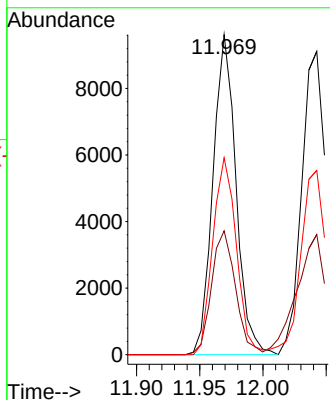
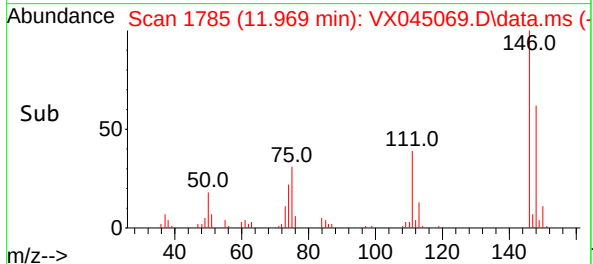
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



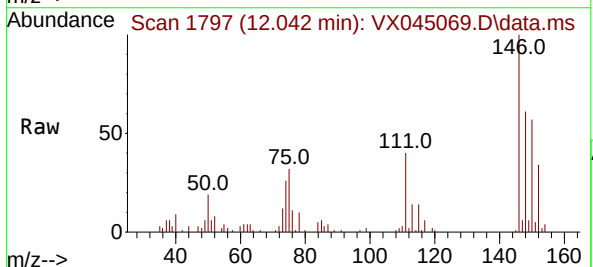
Tgt Ion:146 Resp: 1215
Ion Ratio Lower Upper
146 100
111 40.5 21.1 63.4
148 62.9 31.9 95.7

Manual Integrations
APPROVED

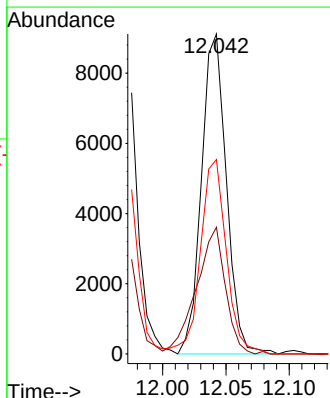
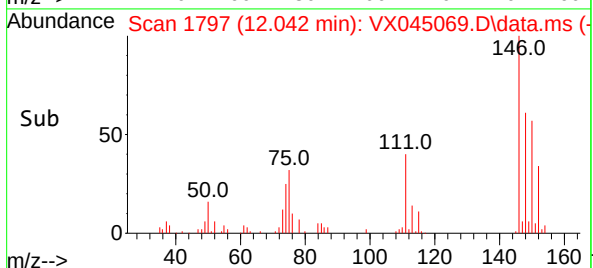
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

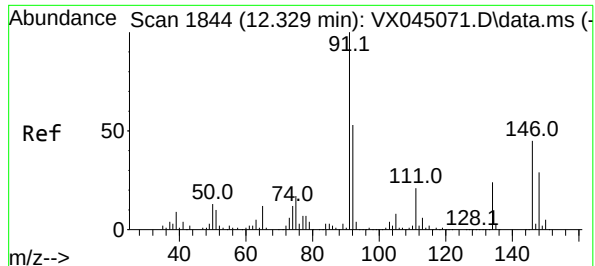


#88
1,4-Dichlorobenzene
Concen: 5.014 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13



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

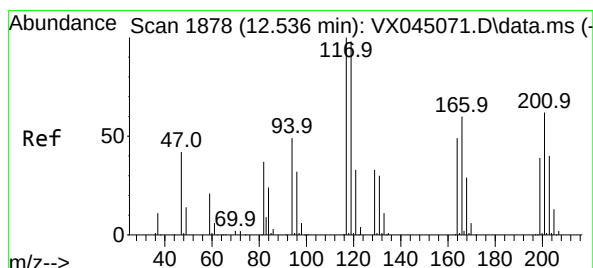
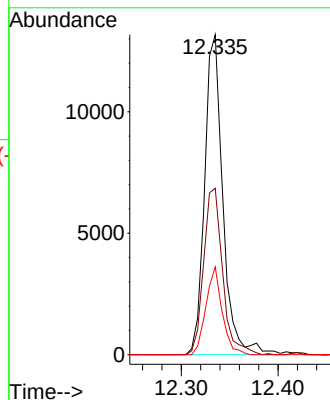
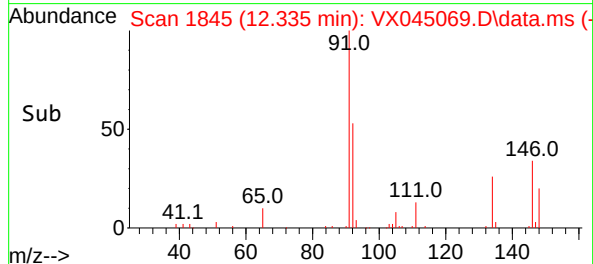
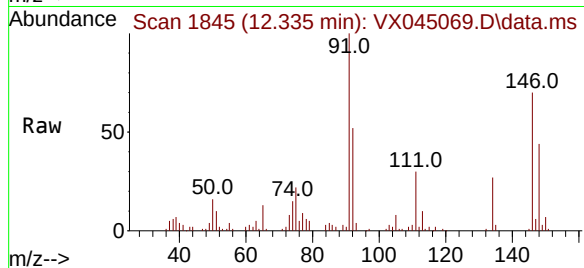
134 24.4 12.2 36.6

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

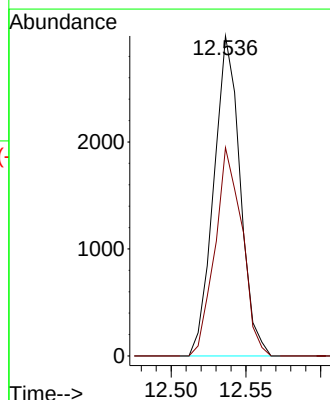
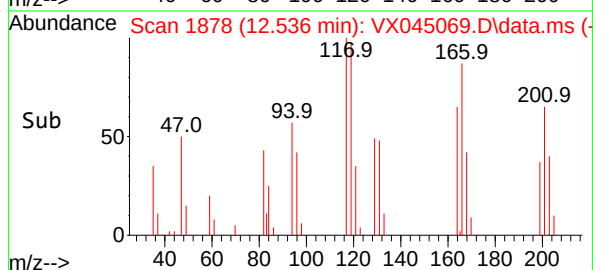
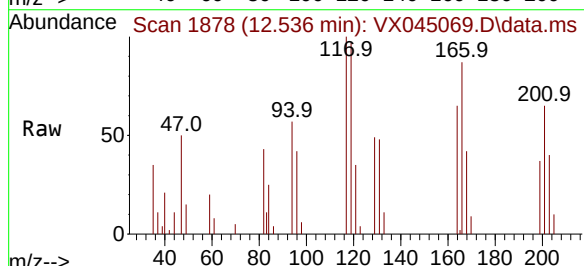
Acq: 28 Feb 2025 02:13

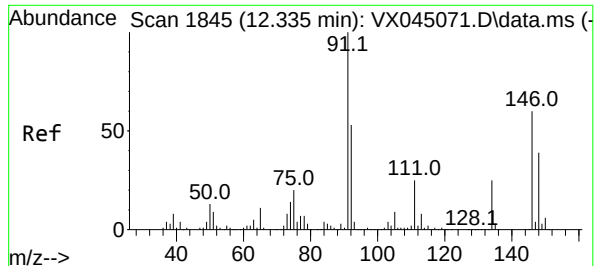
Tgt Ion:117 Resp: 3665

Ion Ratio Lower Upper

117 100

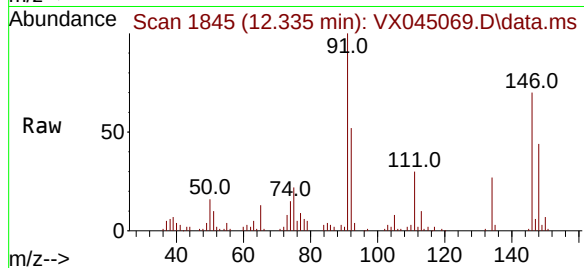
201 67.1 31.9 95.9





#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

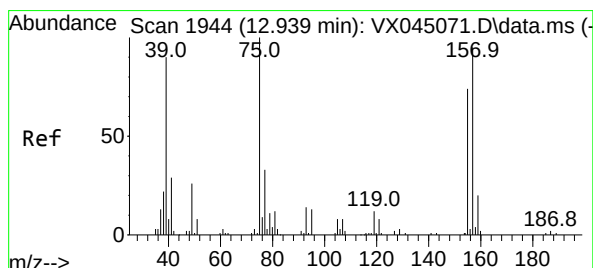
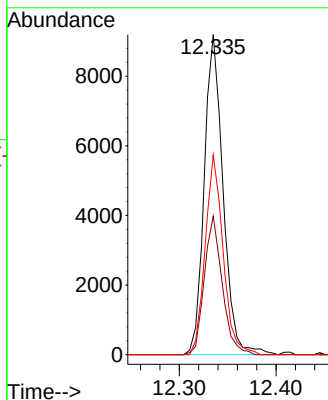
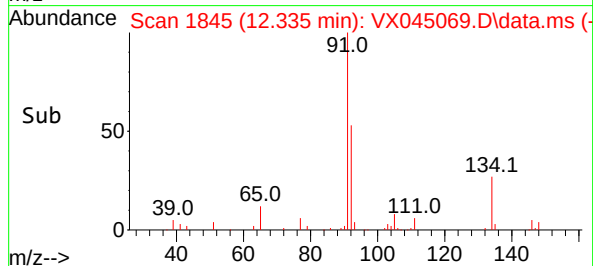
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



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

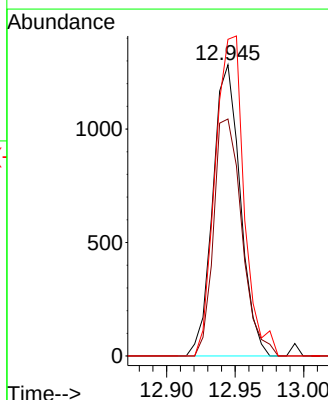
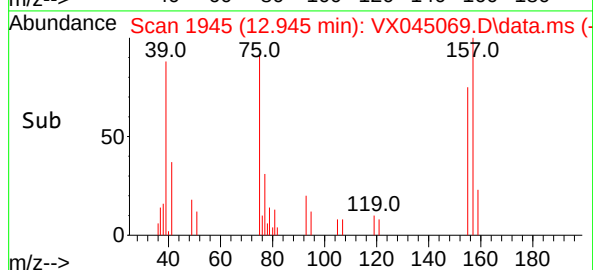
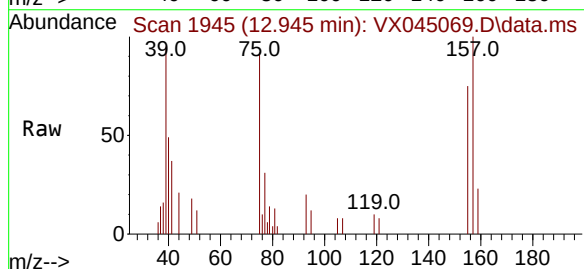
Manual Integrations
APPROVED

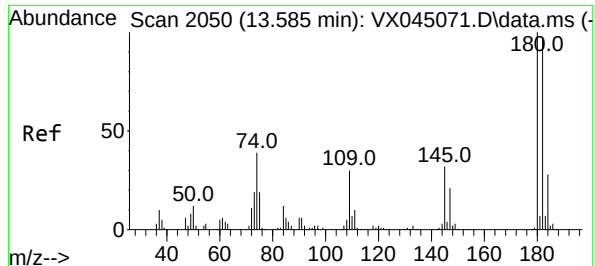
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

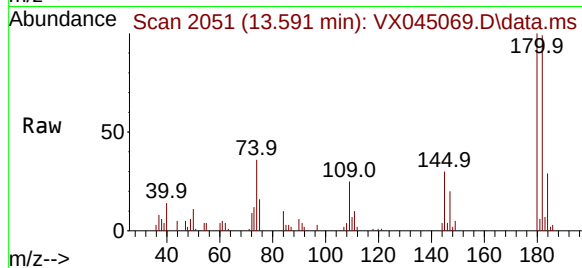
Tgt Ion: 75 Resp: 1787
Ion Ratio Lower Upper
75 100
155 83.8 39.6 118.7
157 115.4 51.1 153.4





#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

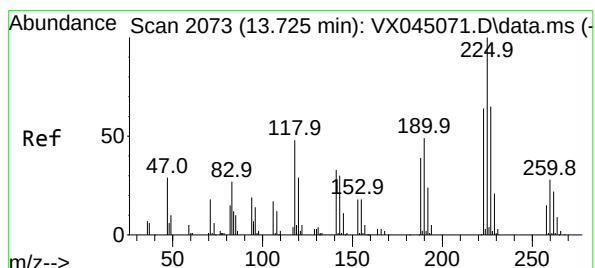
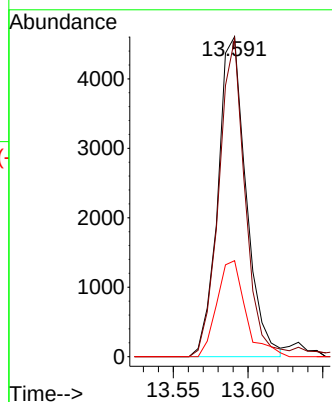
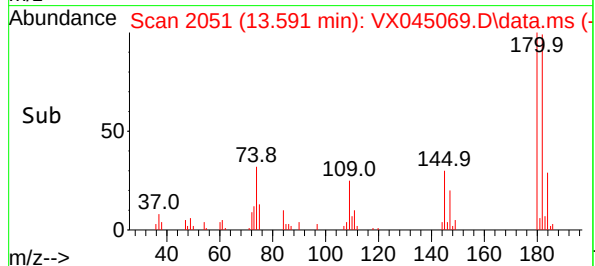
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



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

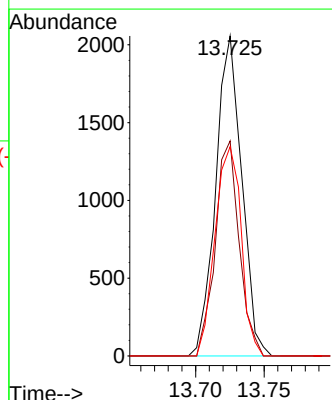
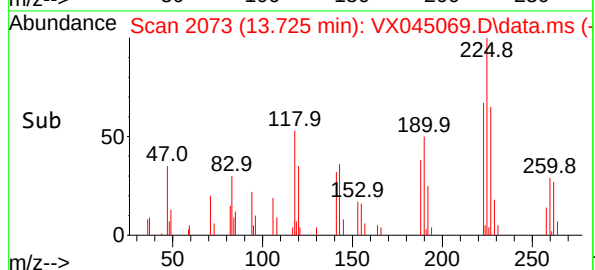
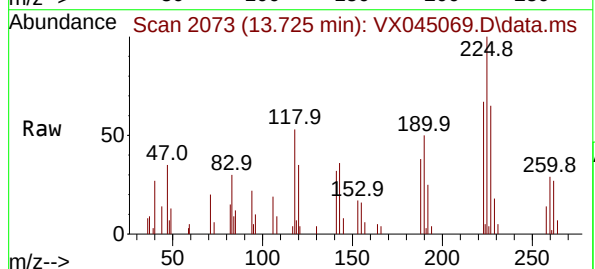
Manual Integrations
APPROVED

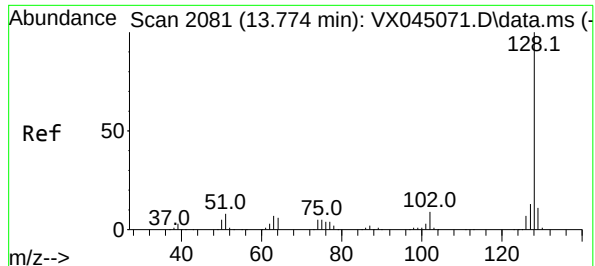
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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# 2081

Delta R.T. 0.006 min

Lab File: VX045069.D

Acq: 28 Feb 2025 02:13

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

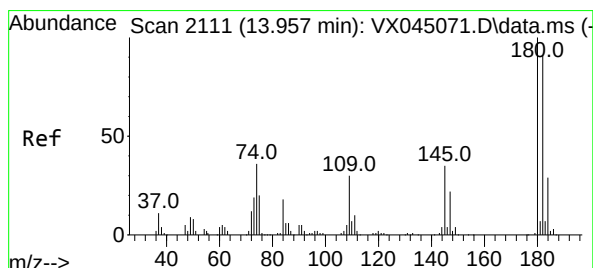
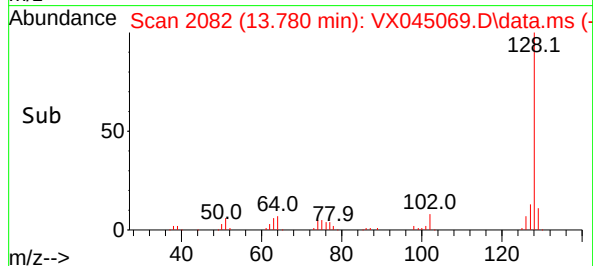
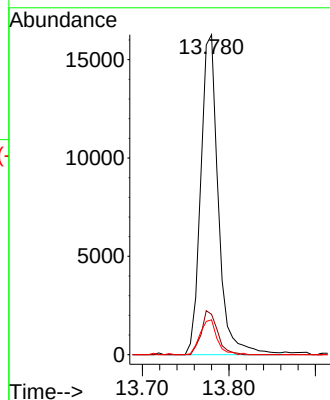
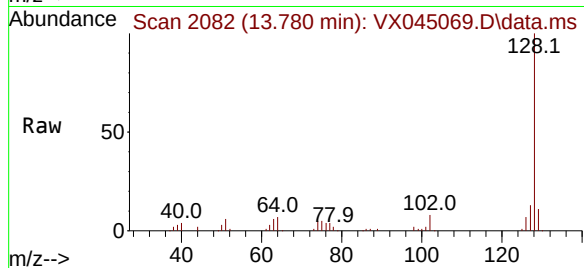
Tgt Ion:128	Resp:	2292
Ion Ratio	Lower	Upper
128	100	
127	12.6	10.3 15.5
129	10.6	8.7 13.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#96

1,2,3-Trichlorobenzene

Concen: 4.437 ug/l

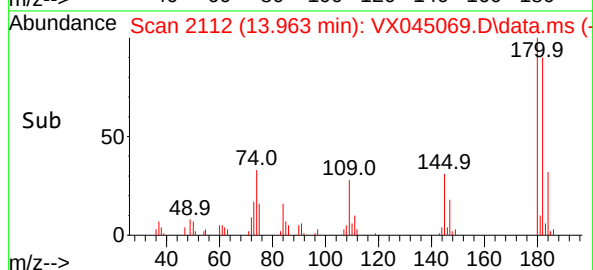
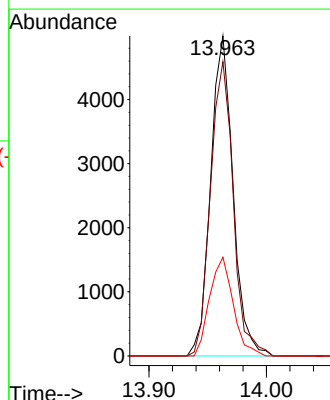
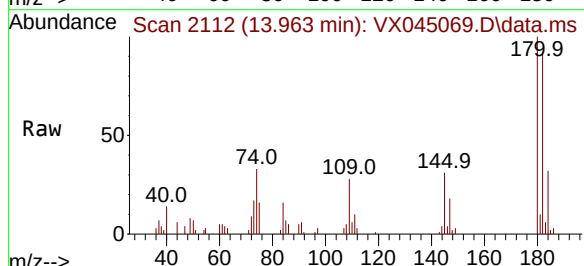
RT: 13.963 min Scan# 2112

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 : VSTDIC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

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 : VSTDIC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

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

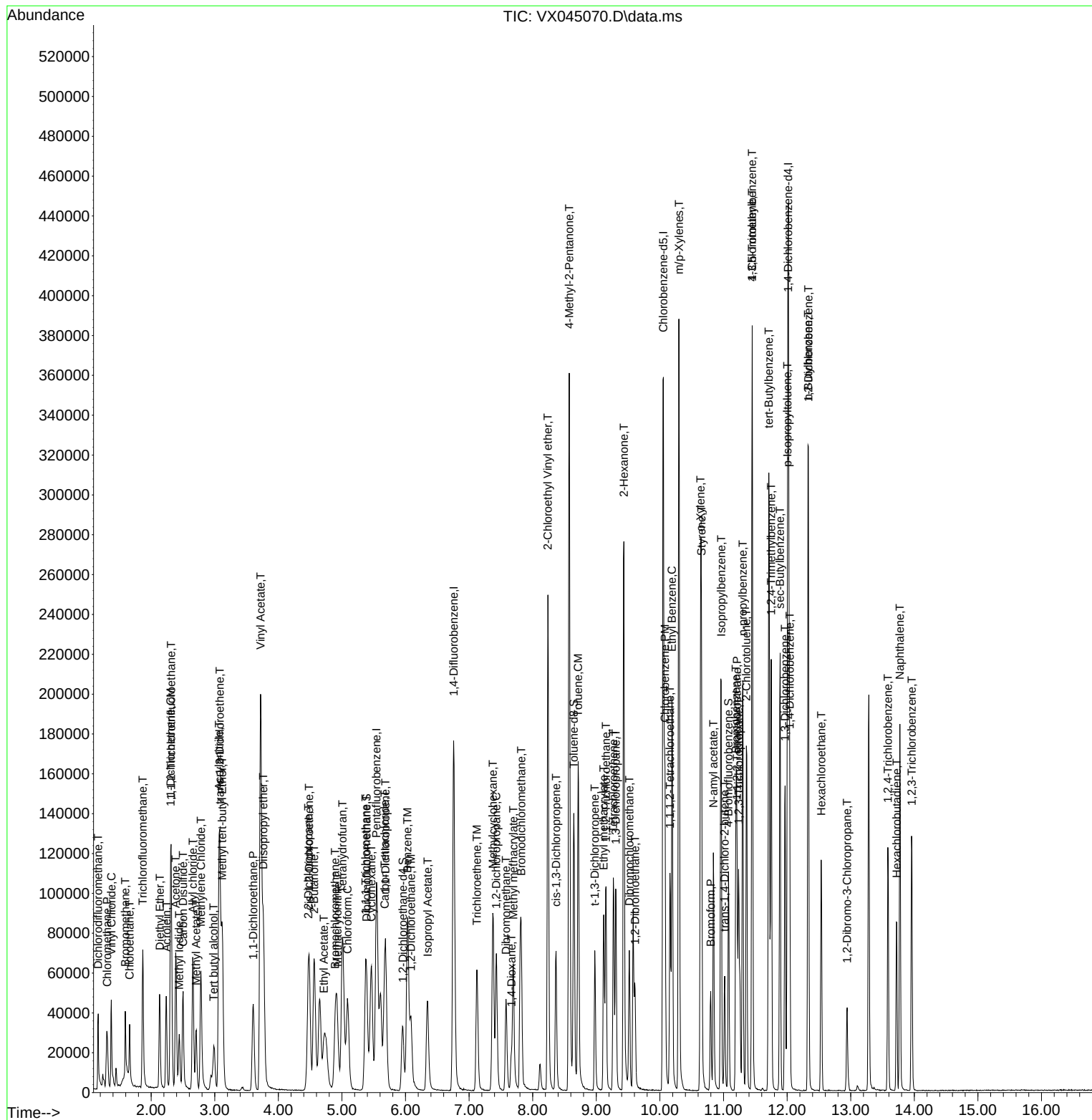
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Operator : JC/MD
Sample : VSTDIC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

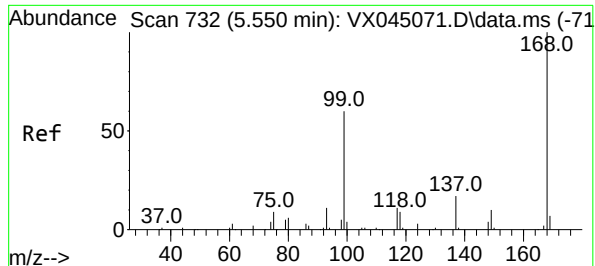
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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





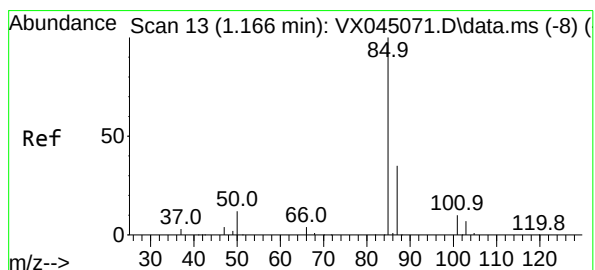
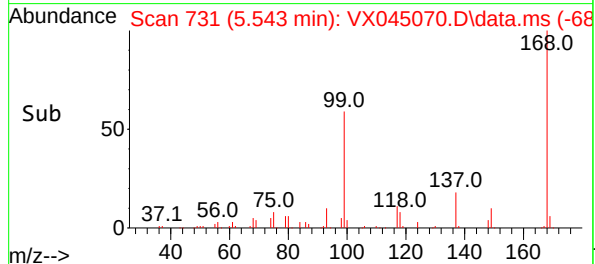
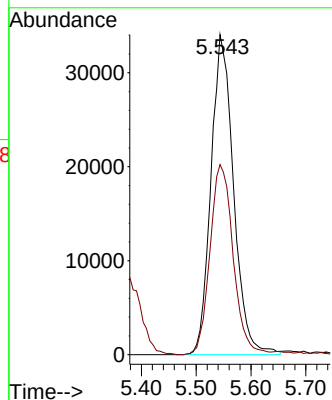
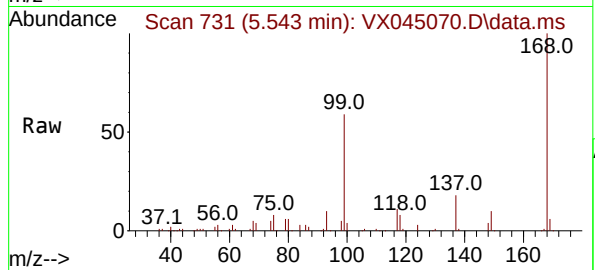
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 71
Delta R.T. -0.007 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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

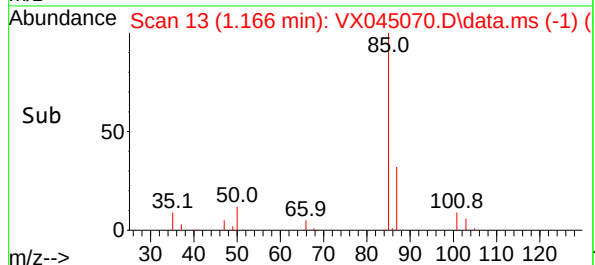
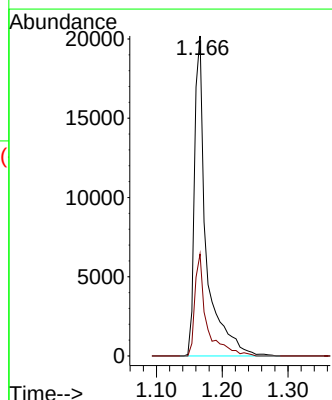
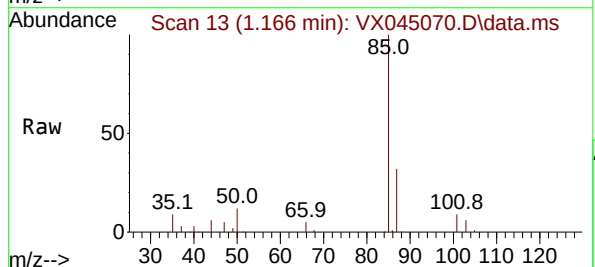
Manual Integrations
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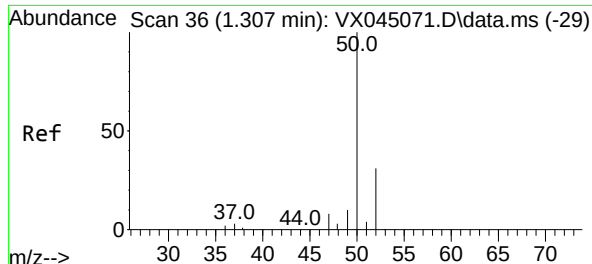
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

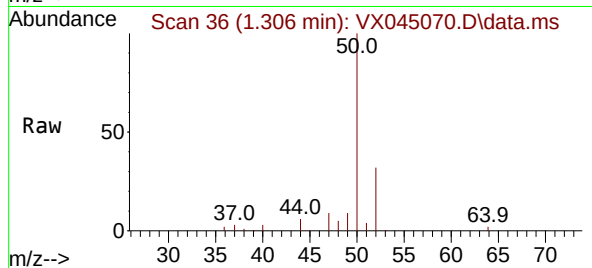
Tgt Ion: 85 Resp: 25155
Ion Ratio Lower Upper
85 100
87 31.9 17.4 52.3





#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

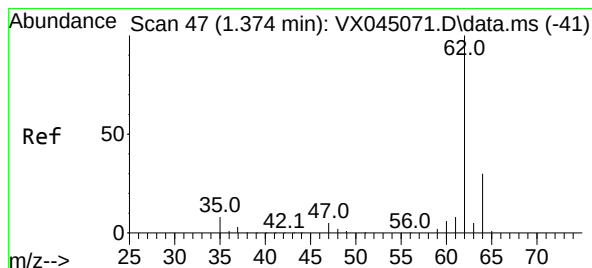
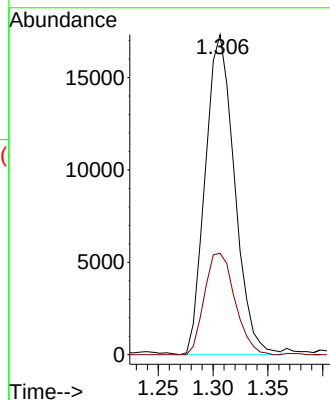
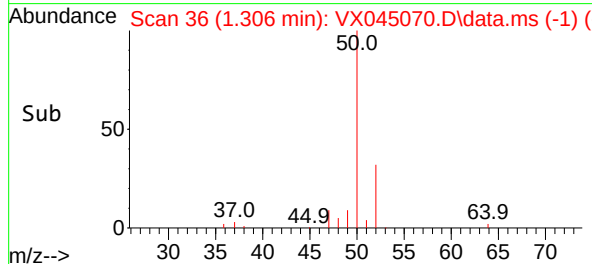
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



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

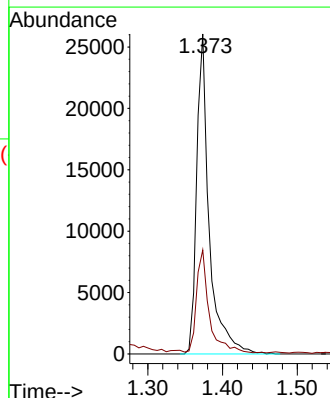
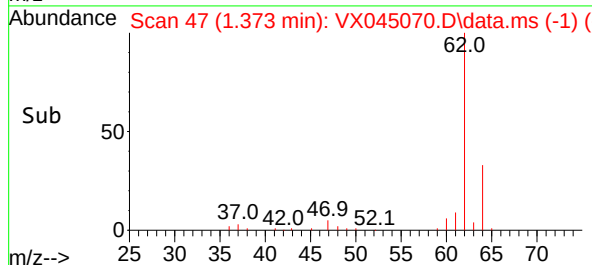
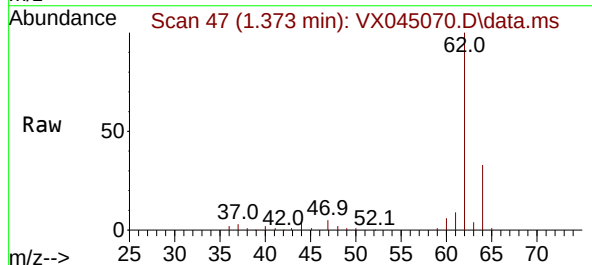
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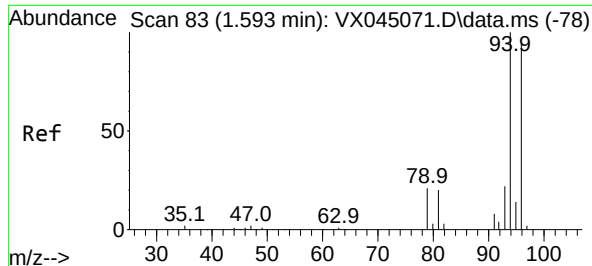
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

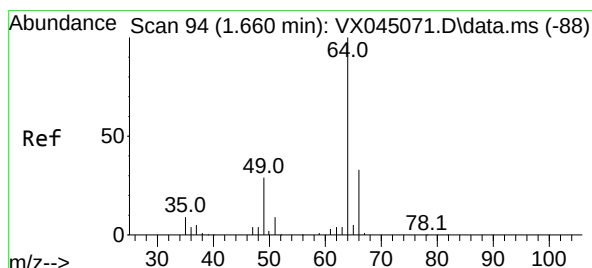
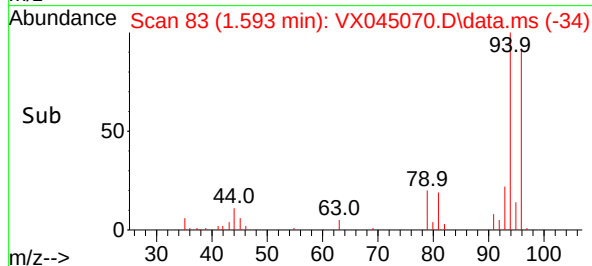
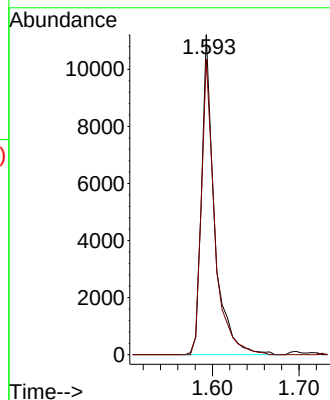
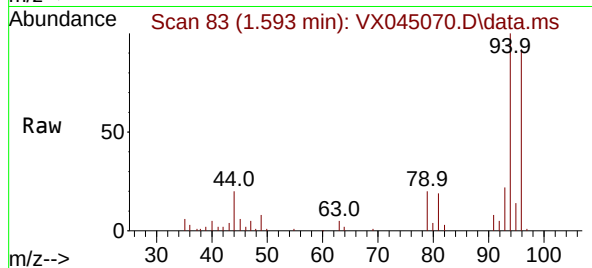
96 92.4 75.0 112.4

Manual Integrations

APPROVED

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

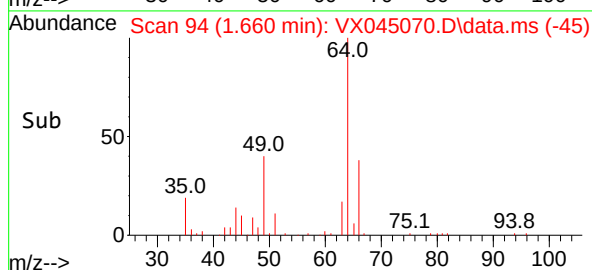
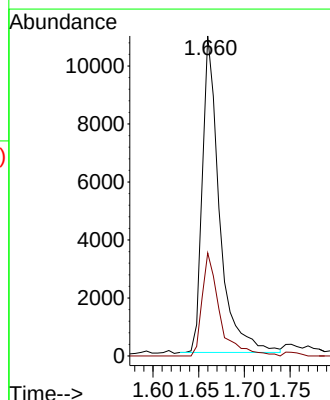
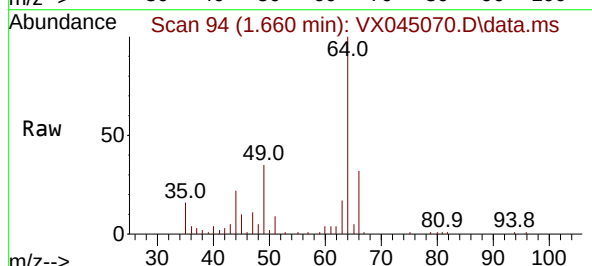
Acq: 28 Feb 2025 02:37

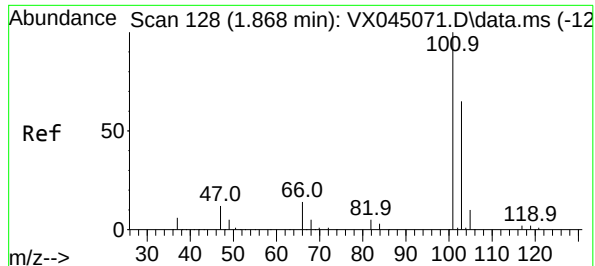
Tgt Ion: 64 Resp: 14237

Ion Ratio Lower Upper

64 100

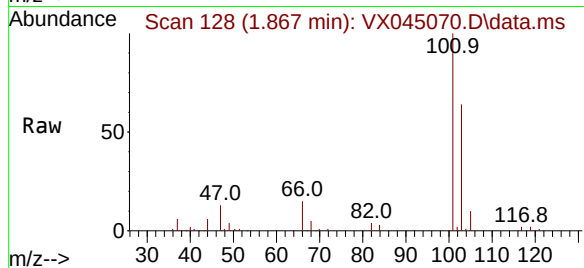
66 32.6 26.7 40.1





#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

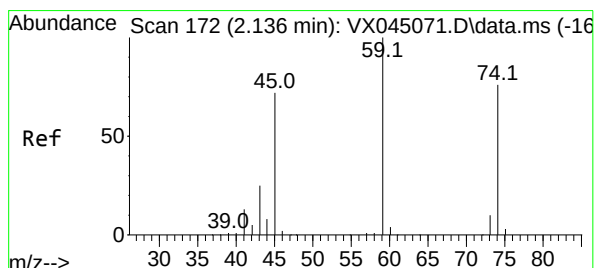
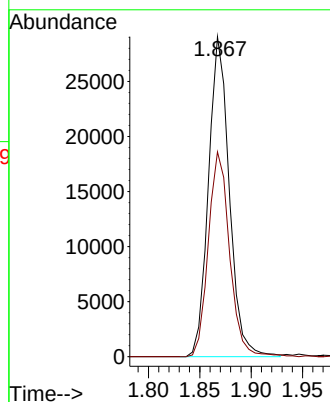
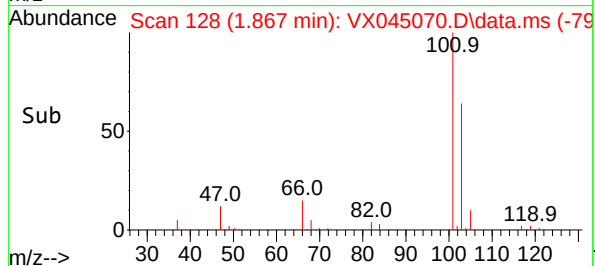
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



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

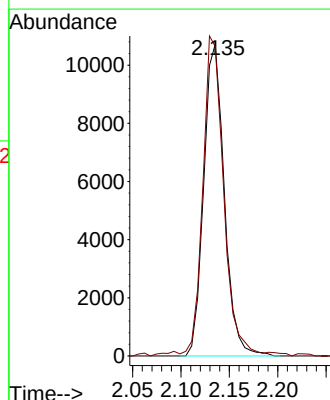
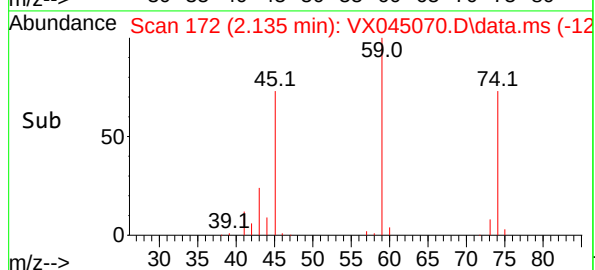
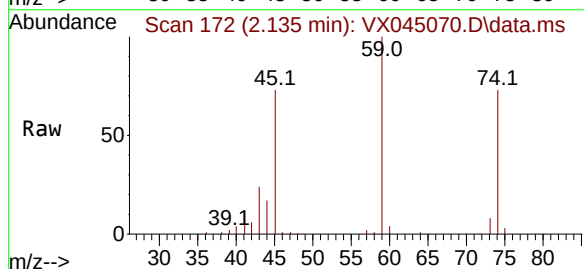
Manual Integrations
APPROVED

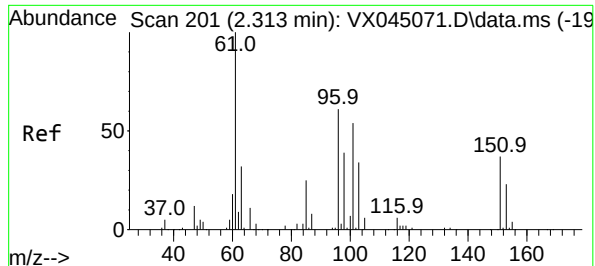
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

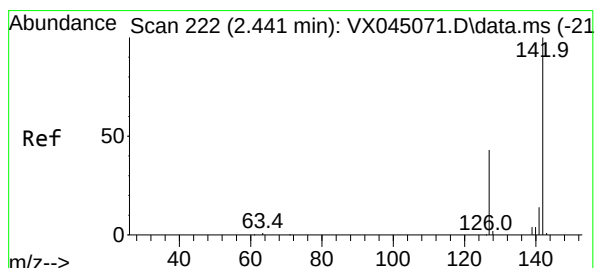
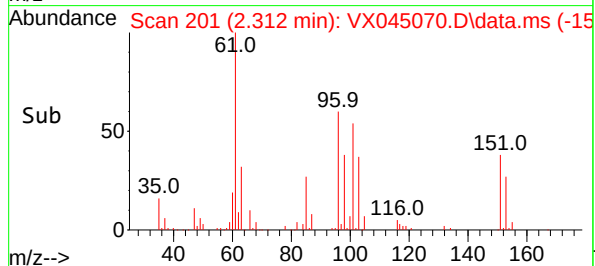
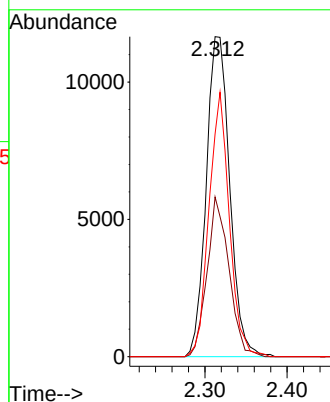
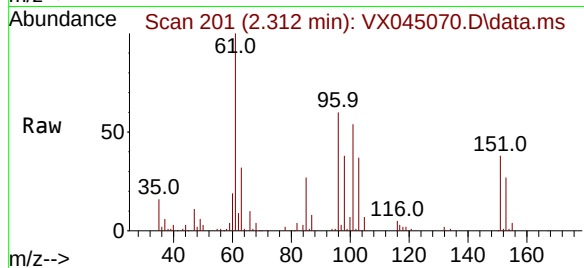
Tgt Ion:101	Resp:	23154
Ion	Ratio	Lower Upper
101	100	
85	46.5	36.2 54.4
151	71.8	56.4 84.6

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

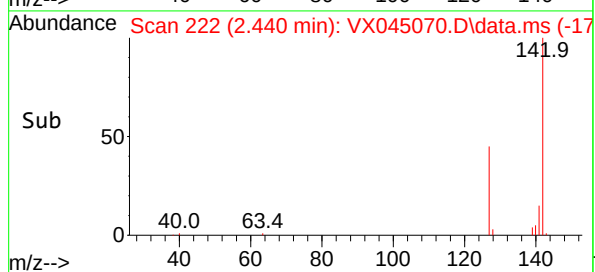
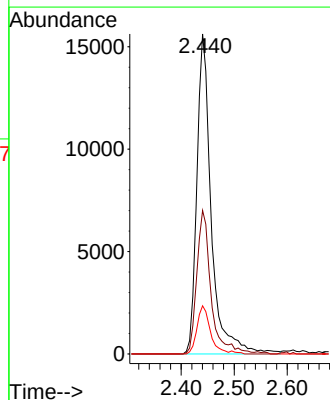
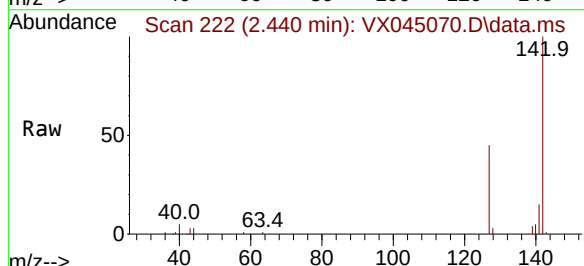
RT: 2.440 min Scan# 222

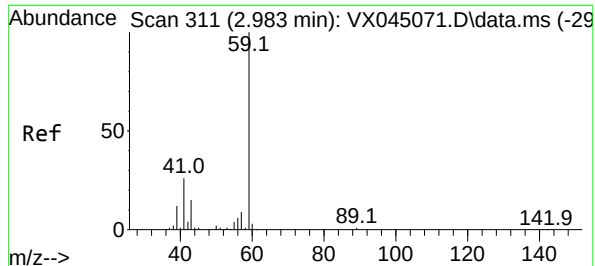
Delta R.T. -0.000 min

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 :

VSTDICC020

Tgt Ion: 59 Resp: 31240

Ion Ratio Lower Upper

59 100

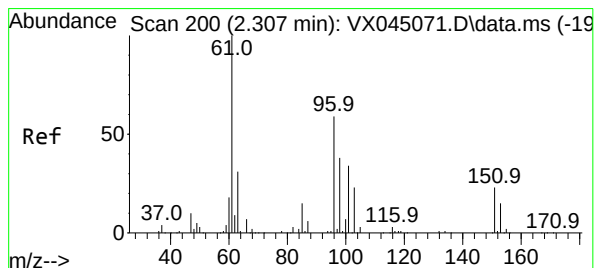
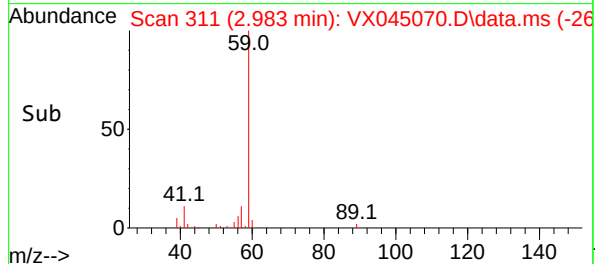
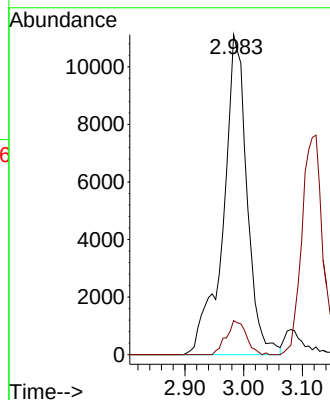
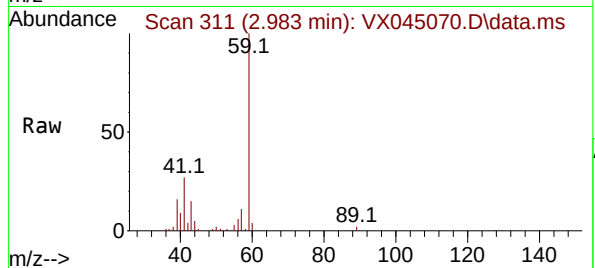
57 8.9 7.8 11.8

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

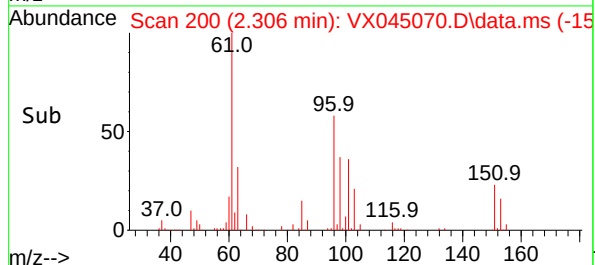
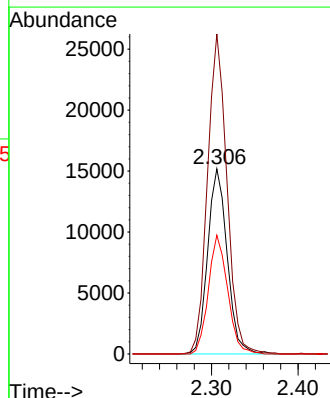
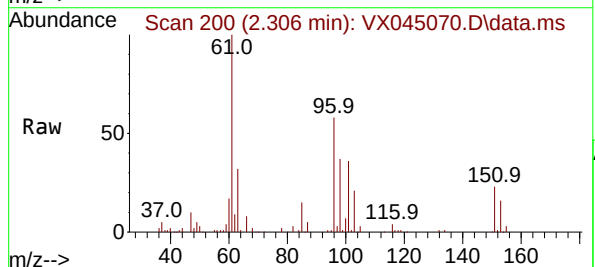
Tgt Ion: 96 Resp: 23810

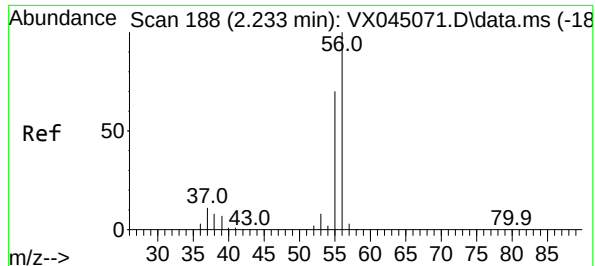
Ion Ratio Lower Upper

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

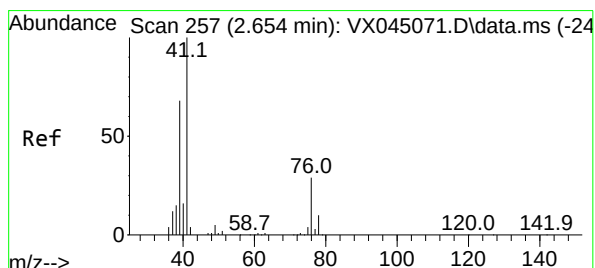
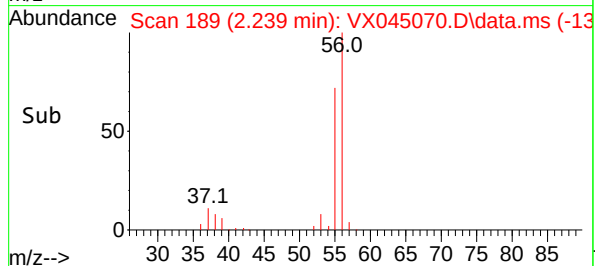
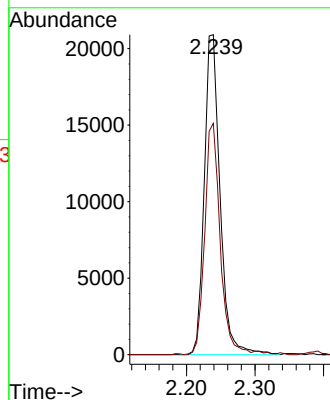
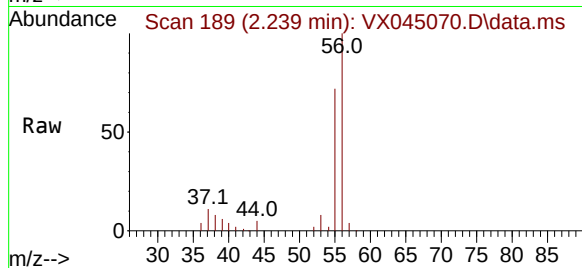
55 71.4 56.2 84.4

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

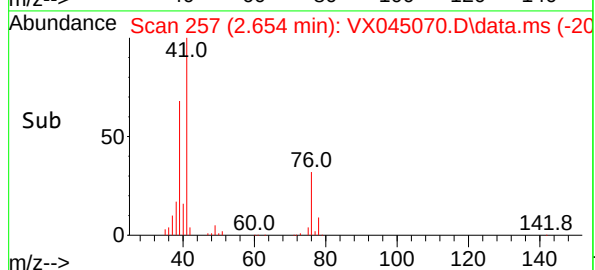
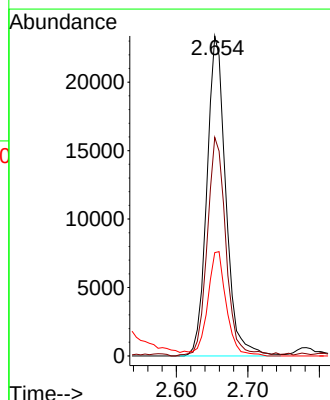
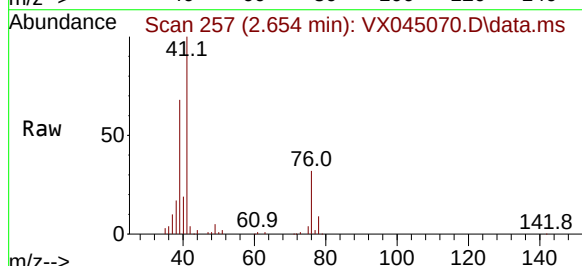
Tgt Ion: 41 Resp: 42993

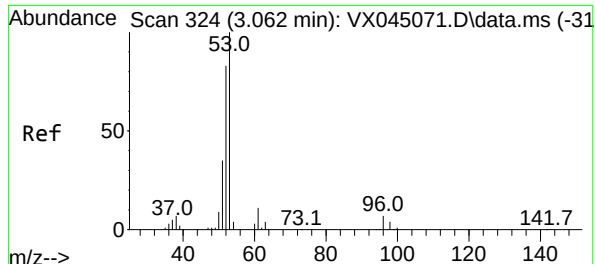
Ion Ratio Lower Upper

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 :

VSTDICC020

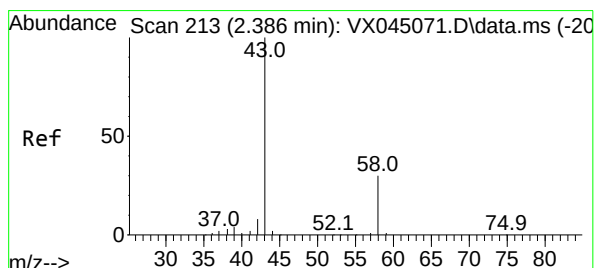
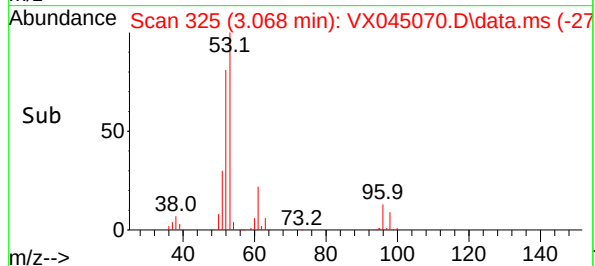
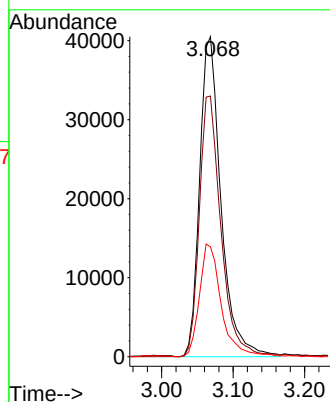
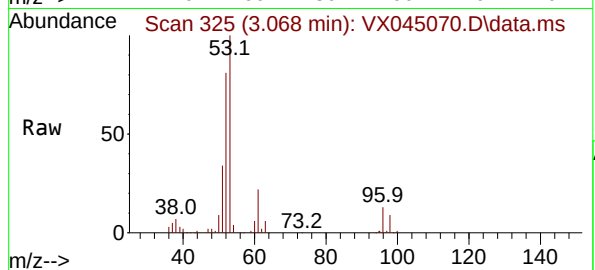
Tgt Ion:	53	Resp:	8418
Ion	Ratio	Lower	Upper
53	100		
52	82.8	66.2	99.2
51	36.0	29.0	43.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#16

Acetone

Concen: 126.257 ug/l

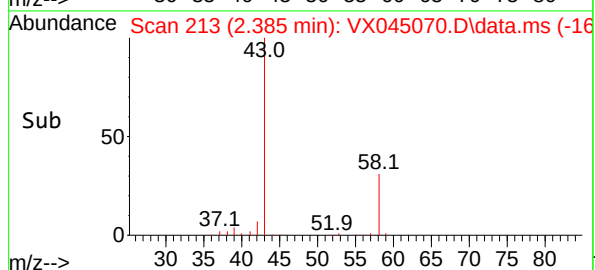
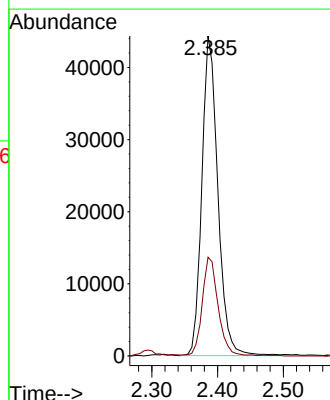
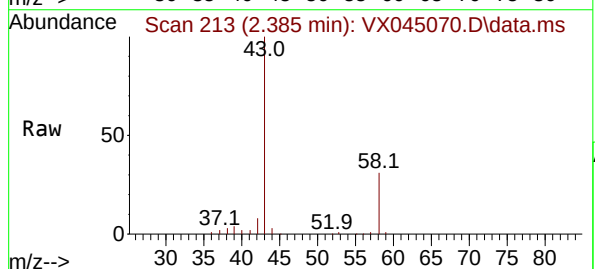
RT: 2.385 min Scan# 213

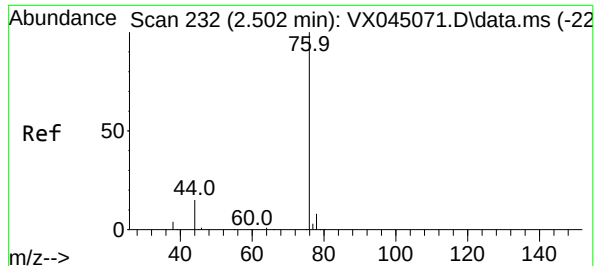
Delta R.T. -0.000 min

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 :

VSTDIC020

Tgt Ion: 76 Resp: 61802

Ion Ratio Lower Upper

76 100

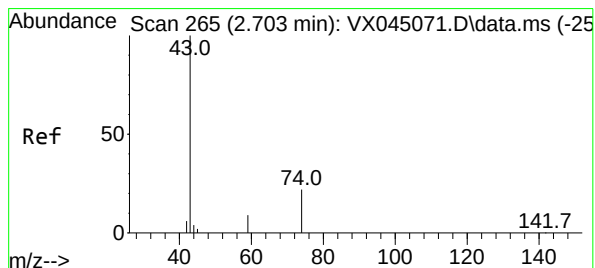
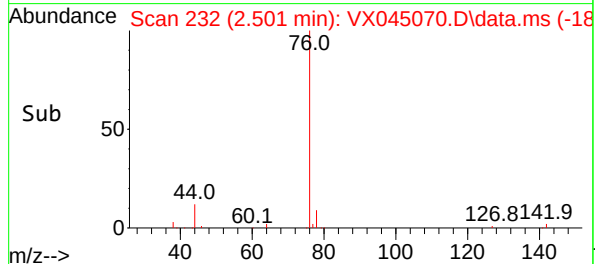
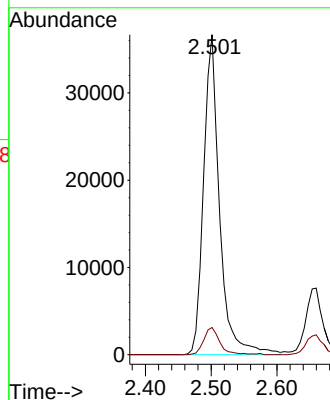
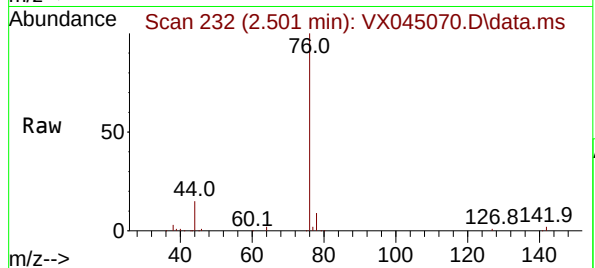
78 8.5 6.6 9.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#18

Methyl Acetate

Concen: 19.729 ug/l

RT: 2.709 min Scan# 266

Delta R.T. 0.006 min

Lab File: VX045070.D

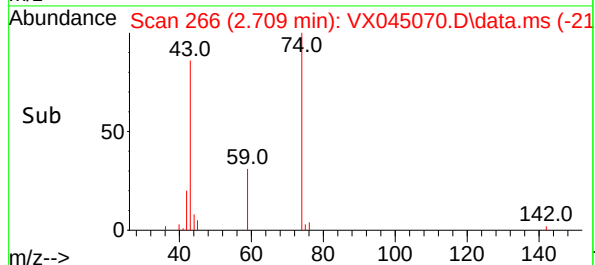
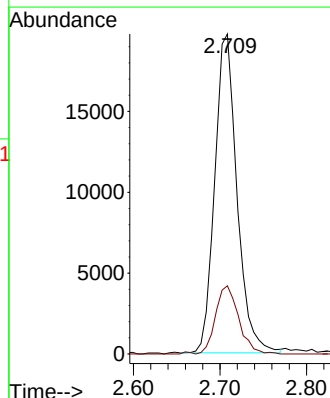
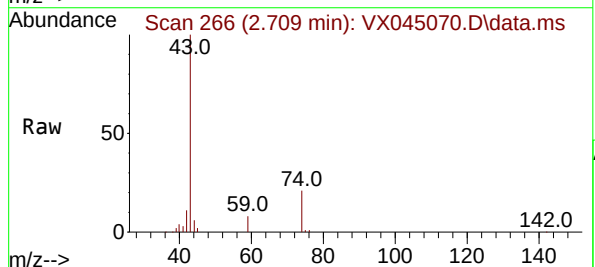
Acq: 28 Feb 2025 02:37

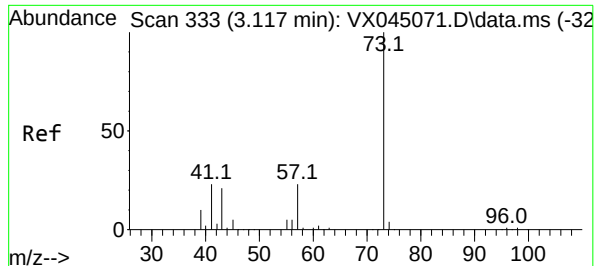
Tgt Ion: 43 Resp: 35157

Ion Ratio Lower Upper

43 100

74 22.2 17.4 26.2





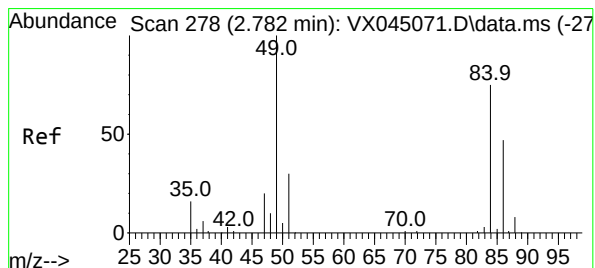
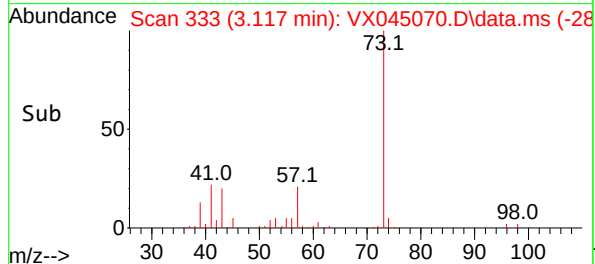
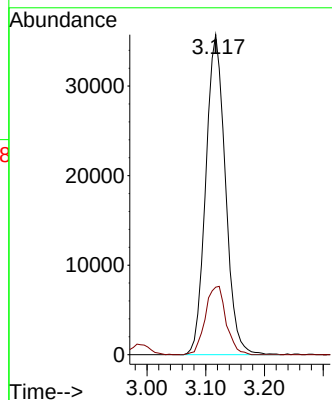
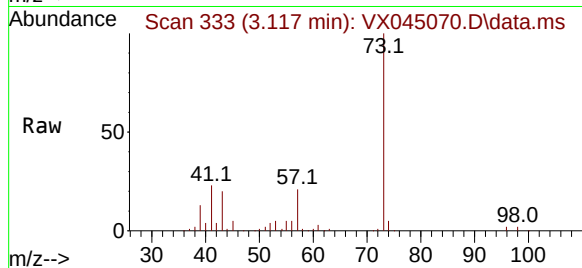
#19
Methyl tert-butyl Ether
Concen: 20.689 ug/l
RT: 3.117 min Scan# 311
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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

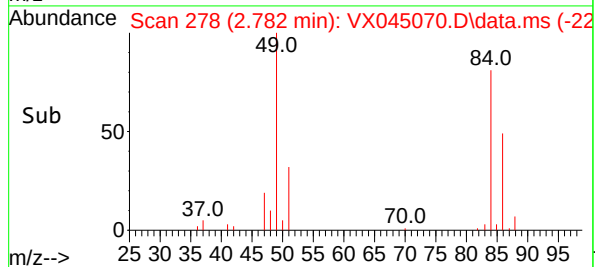
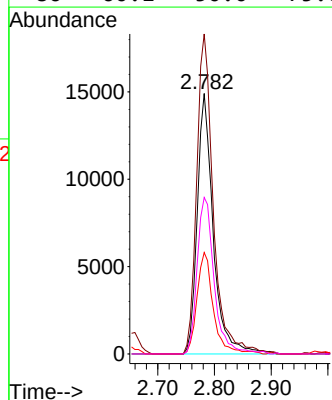
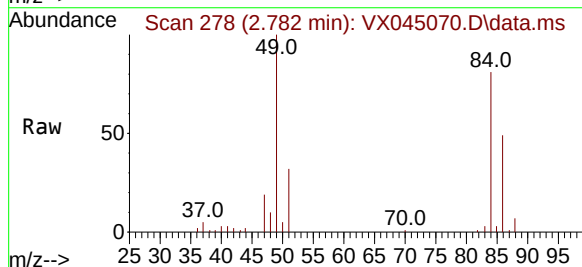
Manual Integrations
APPROVED

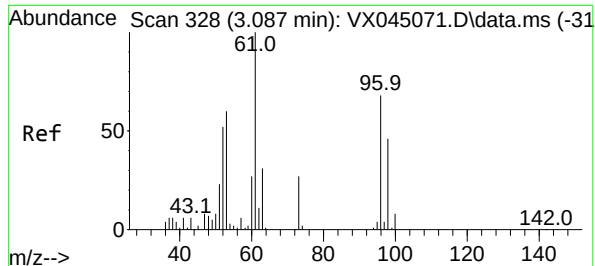
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





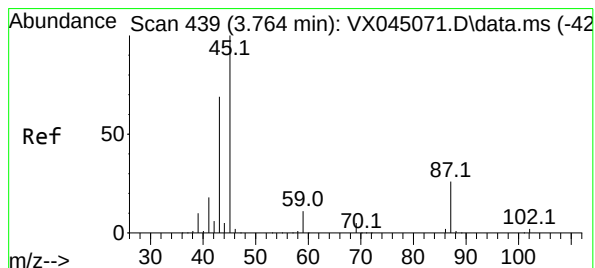
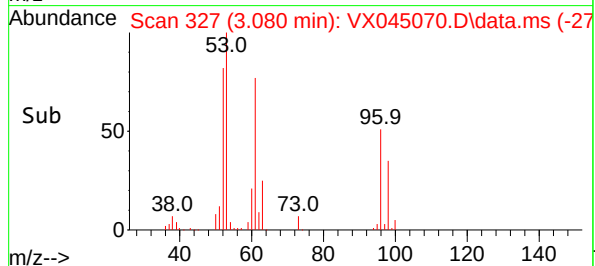
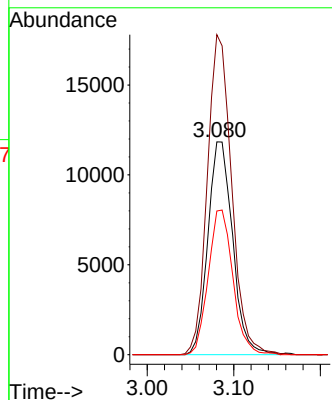
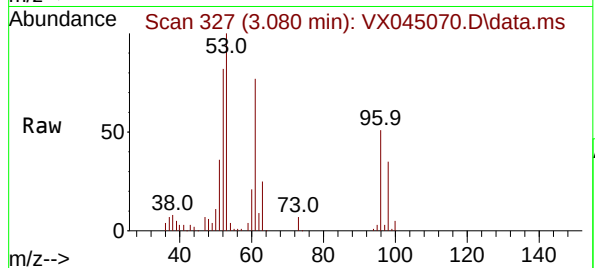
#21
trans-1,2-Dichloroethene
Concen: 19.057 ug/l
RT: 3.080 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

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

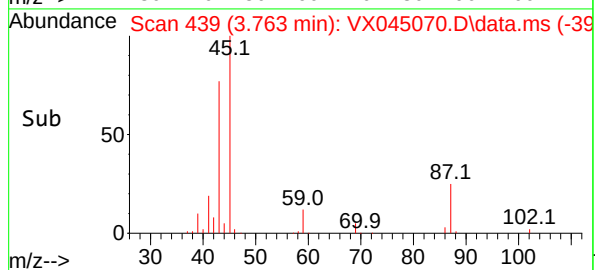
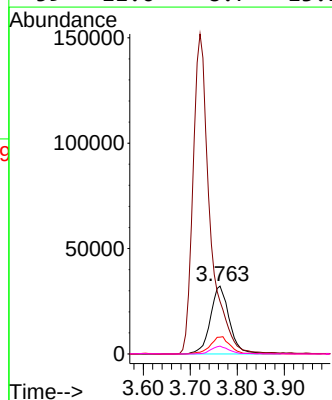
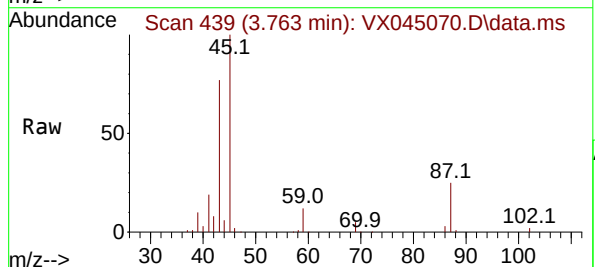
Manual Integrations
APPROVED

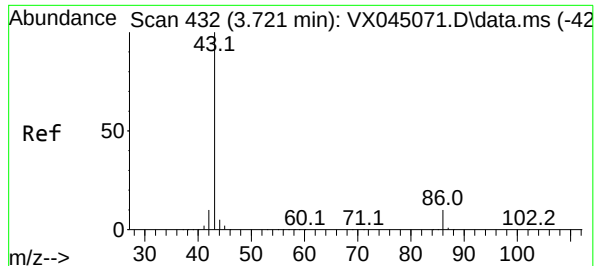
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

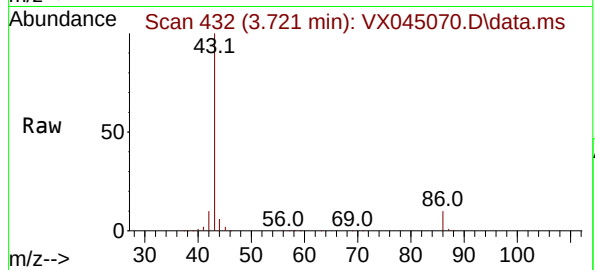
Tgt Ion: 45 Resp: 90378
Ion Ratio Lower Upper
45 100
43 76.4 54.9 82.3
87 24.7 21.0 31.4
59 11.6 8.7 13.1





#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

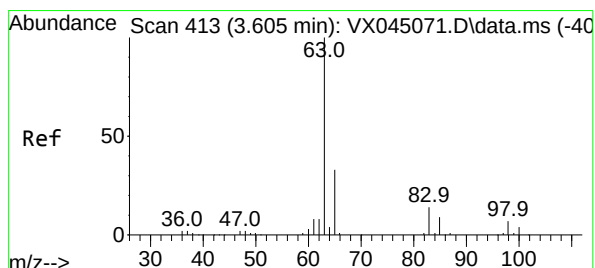
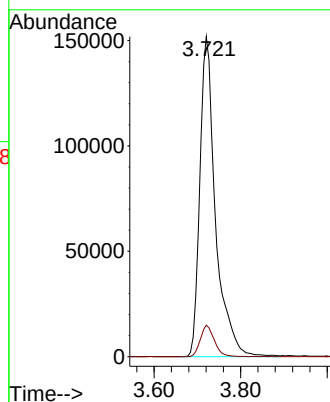
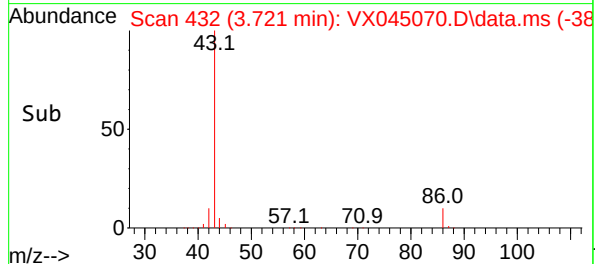
Instrument :
MSVOA_X
Client Sample Id :
VSTDICC020



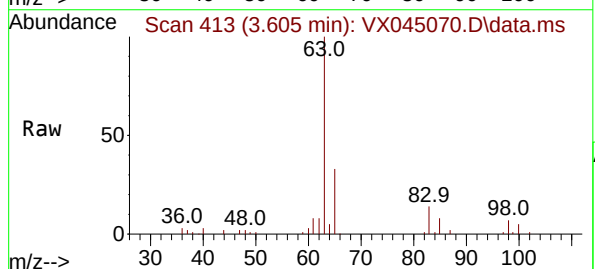
Tgt Ion: 43 Resp: 381808
Ion Ratio Lower Upper
43 100
86 9.9 8.1 12.1

Manual Integrations
APPROVED

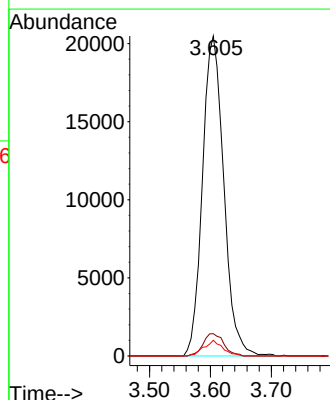
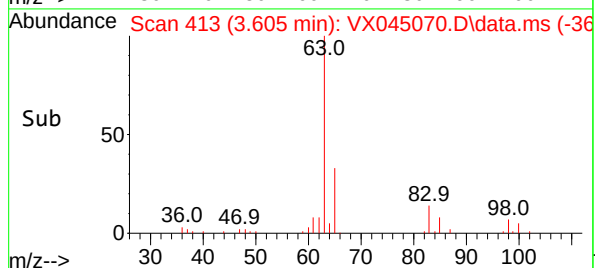
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

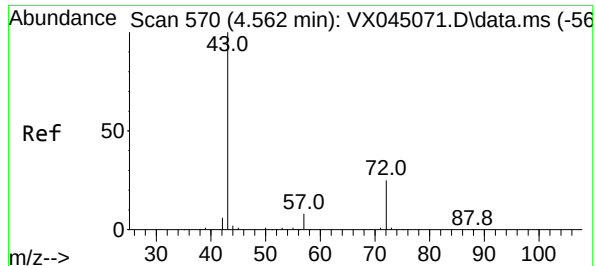


#24
1,1-Dichloroethane
Concen: 20.716 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37



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

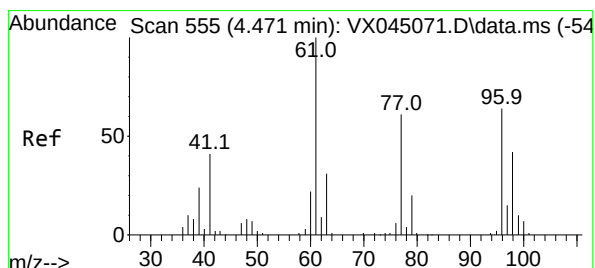
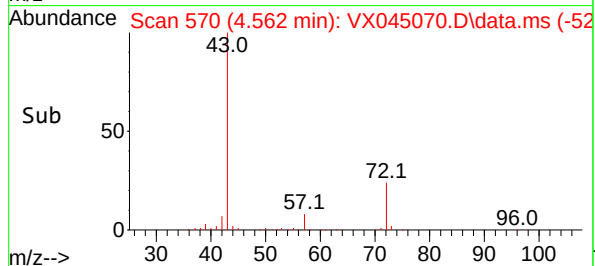
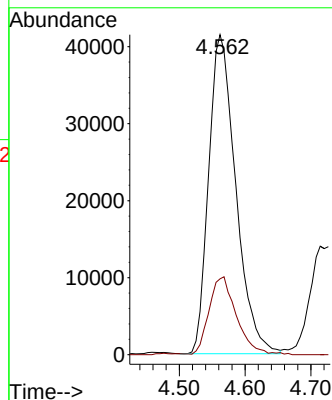
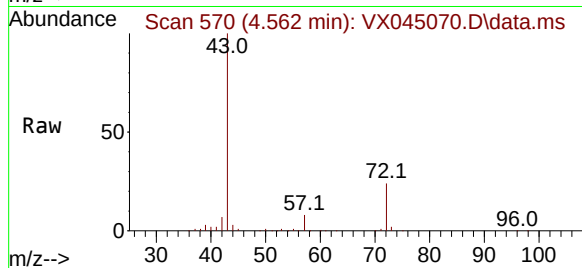
72 23.5 20.0 30.0

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

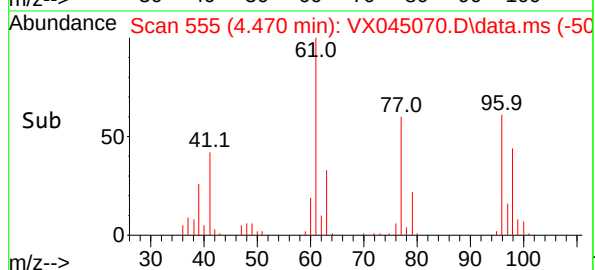
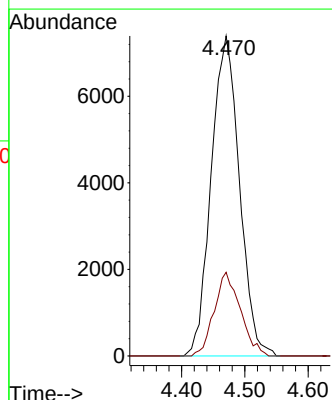
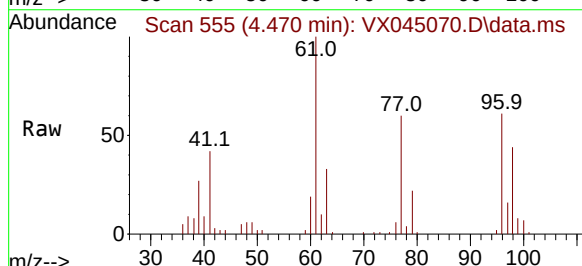
Acq: 28 Feb 2025 02:37

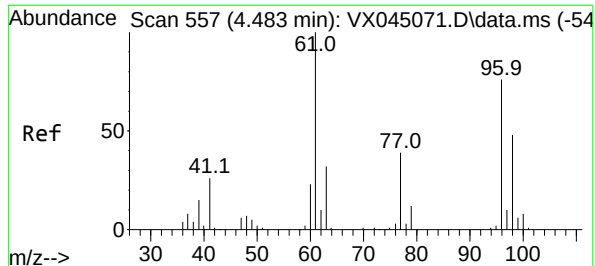
Tgt Ion: 77 Resp: 22886

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

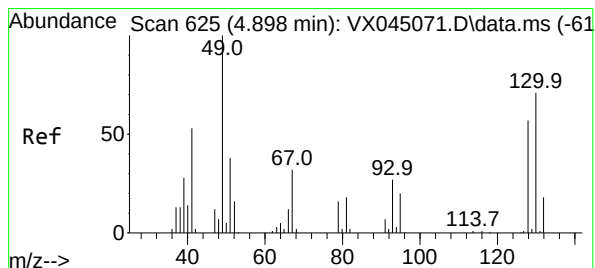
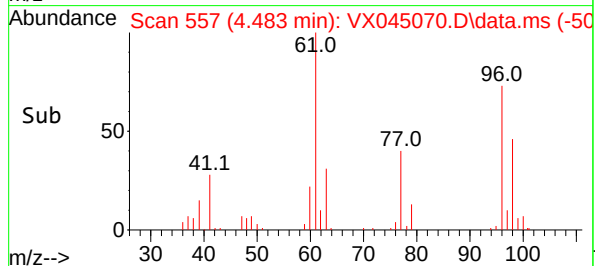
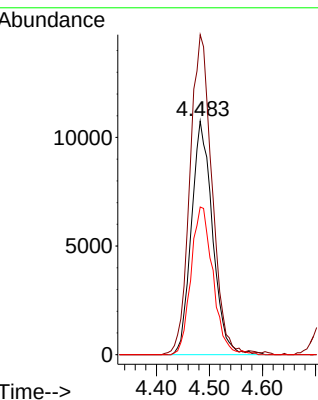
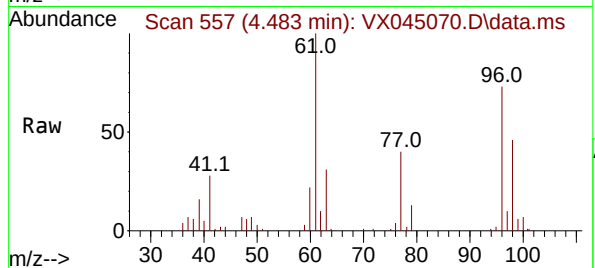
98 65.6 0.0 128.0

Manual Integrations

APPROVED

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

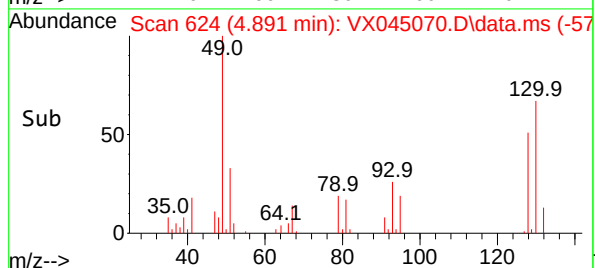
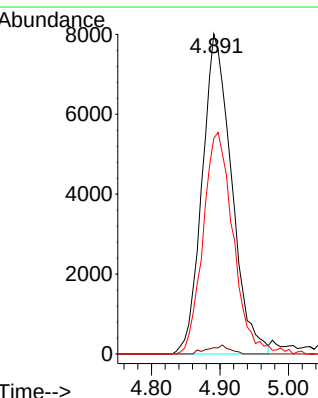
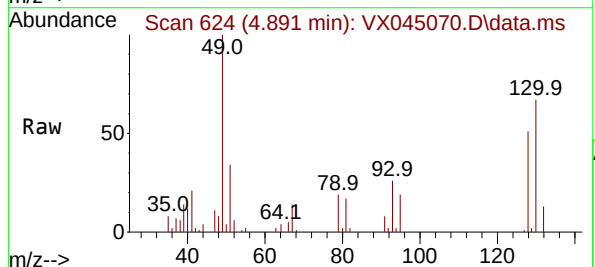
Tgt Ion: 49 Resp: 23869

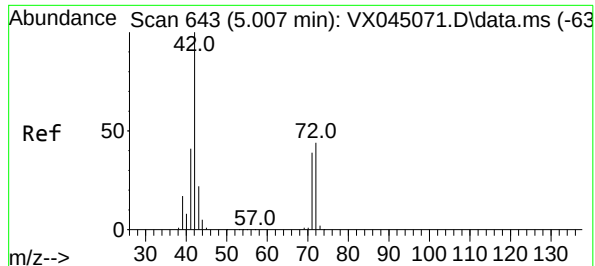
Ion Ratio Lower Upper

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

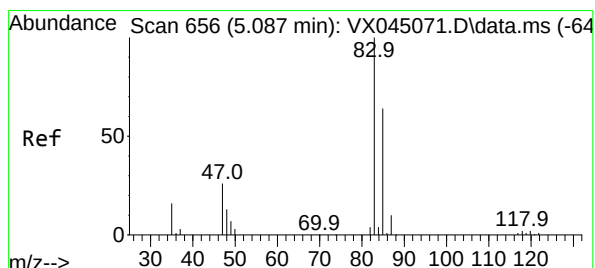
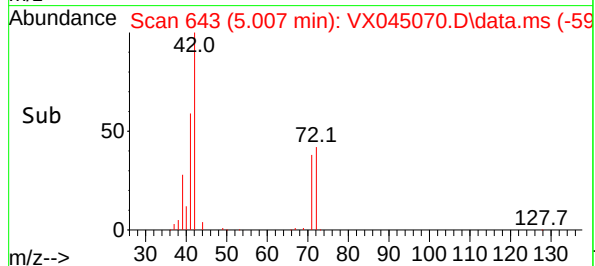
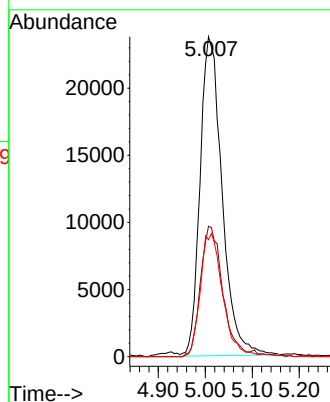
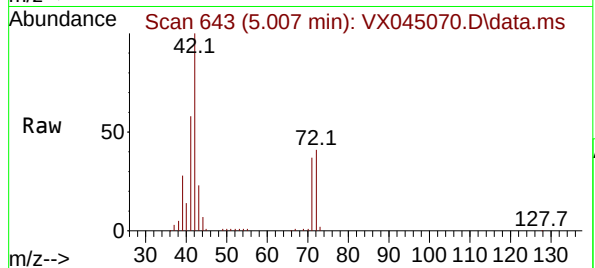
Tgt Ion:	42	Resp:	7743
Ion	Ratio	Lower	Upper
42	100		
72	41.0	34.1	51.1
71	39.0	31.4	47.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#30

Chloroform

Concen: 21.147 ug/l

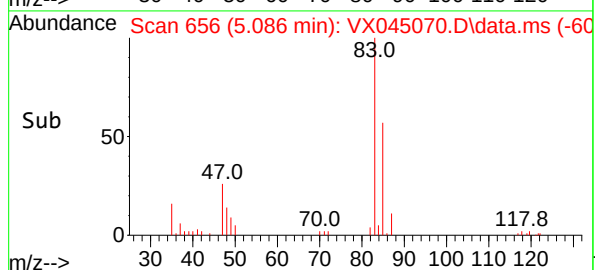
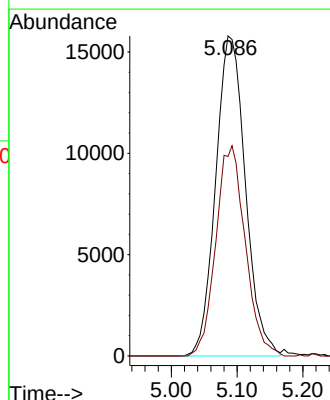
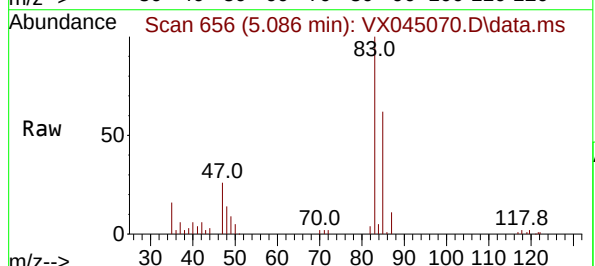
RT: 5.086 min Scan# 656

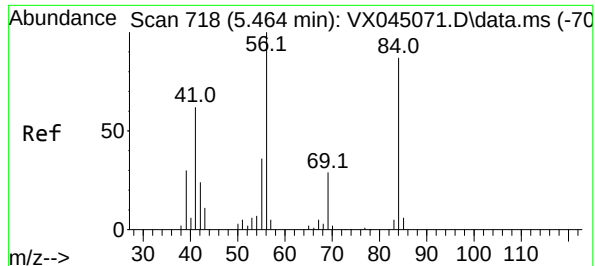
Delta R.T. -0.000 min

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





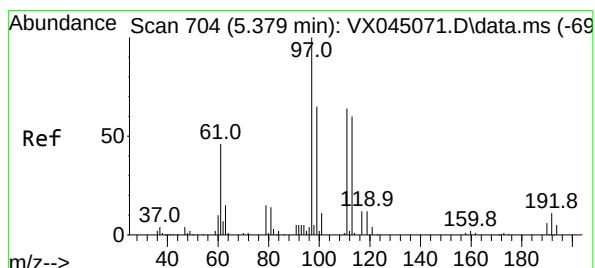
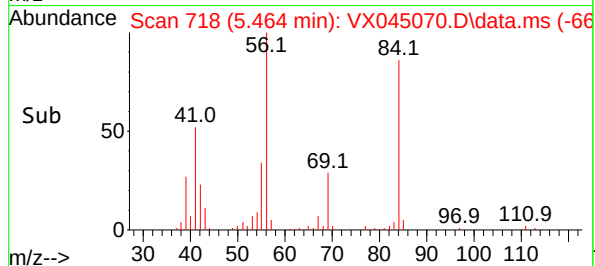
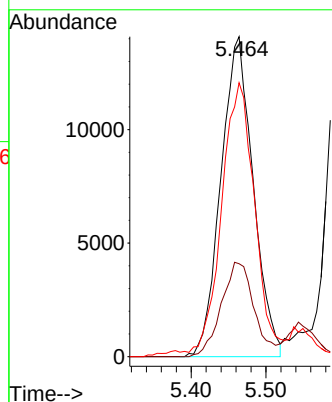
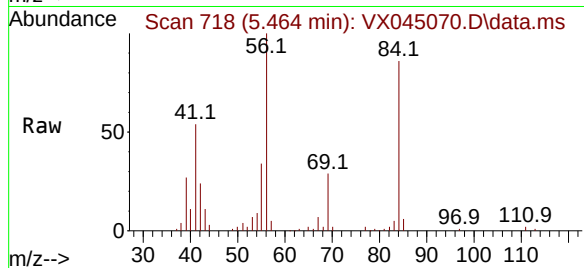
#31
Cyclohexane
Concen: 19.181 ug/l
RT: 5.464 min Scan# 718
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

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

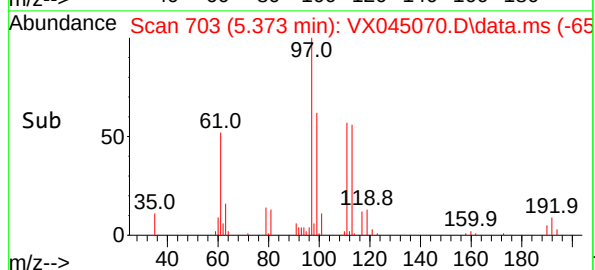
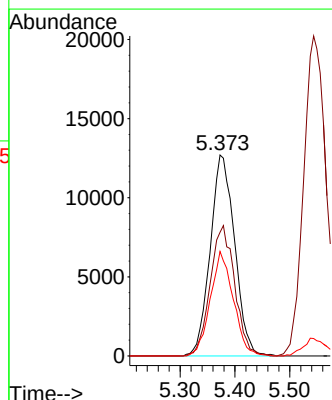
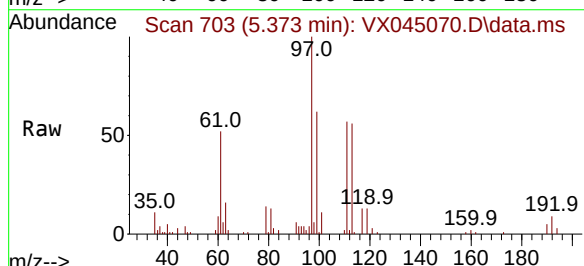
Manual Integrations
APPROVED

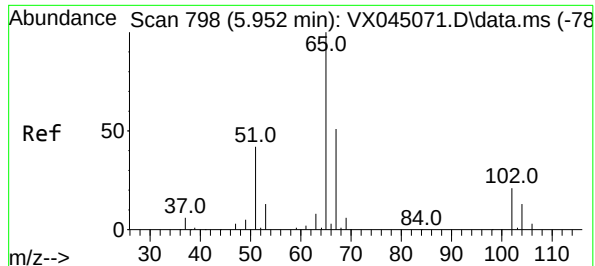
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

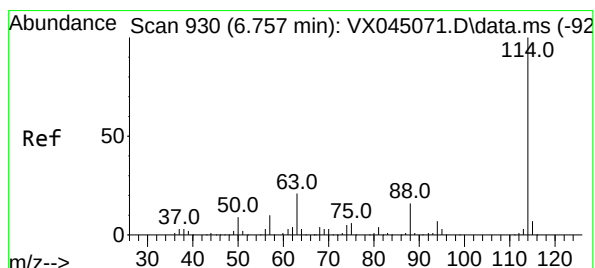
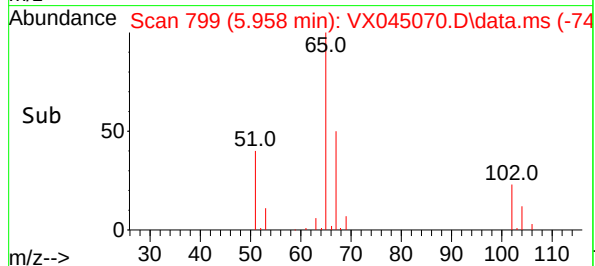
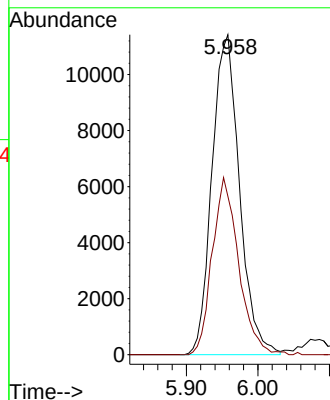
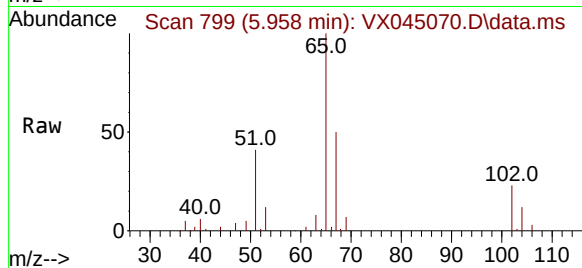
67 53.2 0.0 106.2

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

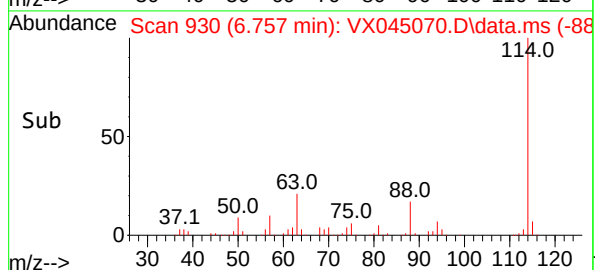
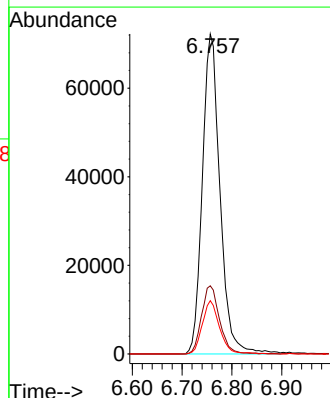
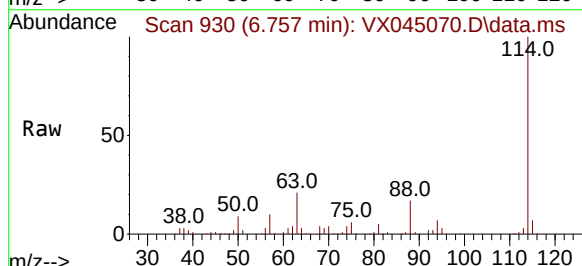
Tgt Ion:114 Resp: 177403

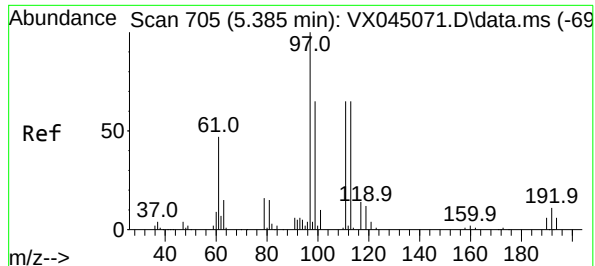
Ion Ratio Lower Upper

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

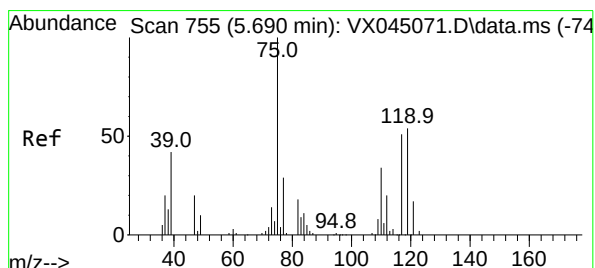
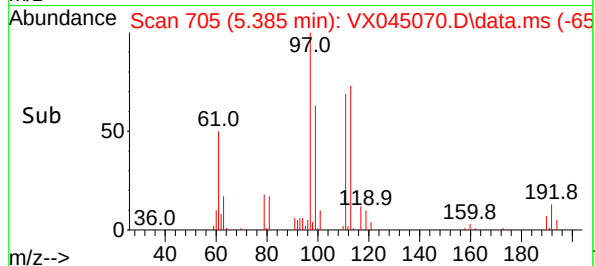
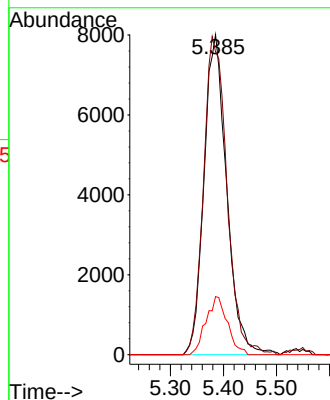
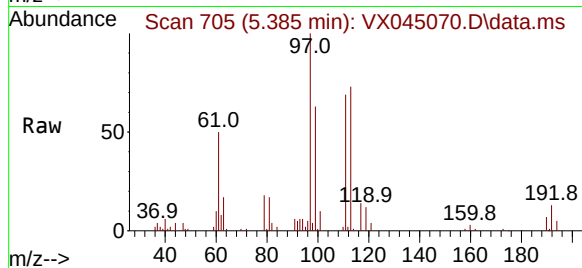
192 17.2 14.3 21.5

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

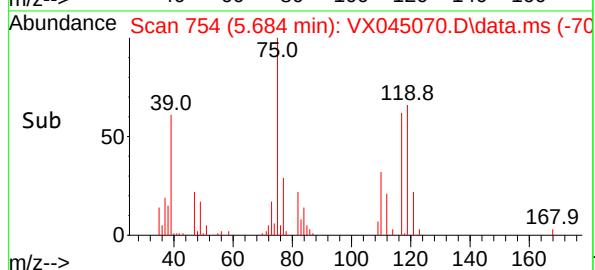
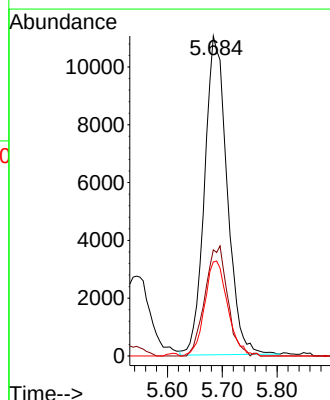
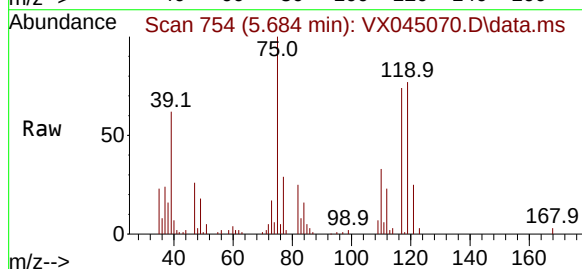
Tgt Ion: 75 Resp: 31519

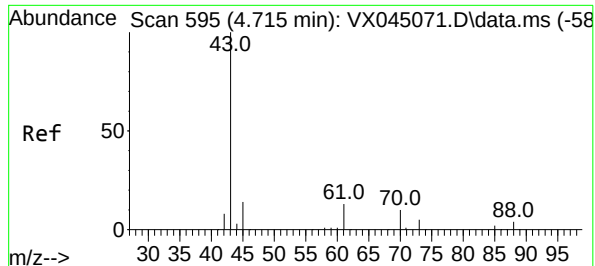
Ion Ratio Lower Upper

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

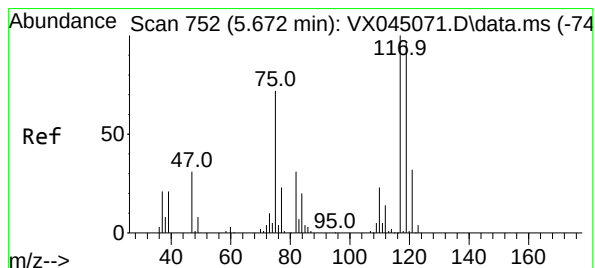
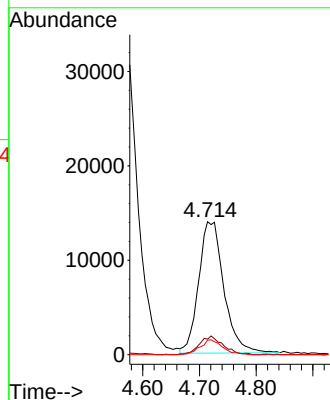
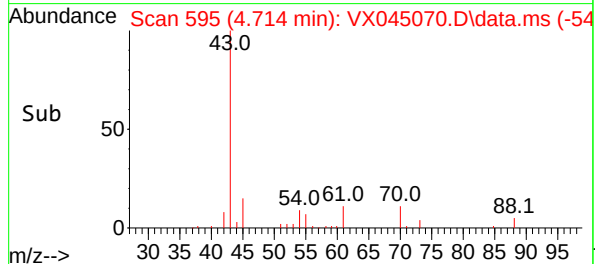
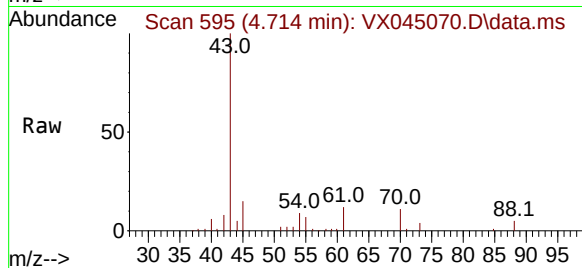
Tgt Ion:	43	Resp:	4309
Ion	Ratio	Lower	Upper
43	100		
61	13.4	10.8	16.2
70	10.1	7.7	11.5

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

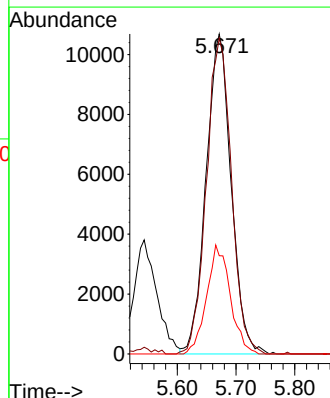
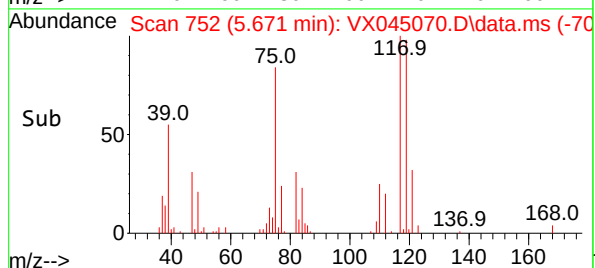
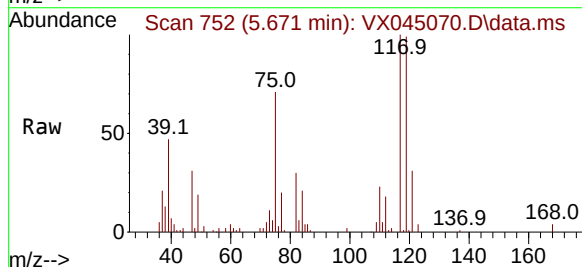
RT: 5.671 min Scan# 752

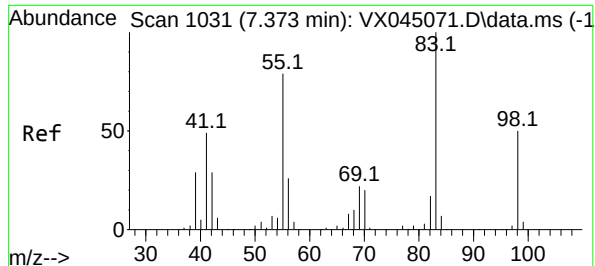
Delta R.T. -0.000 min

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

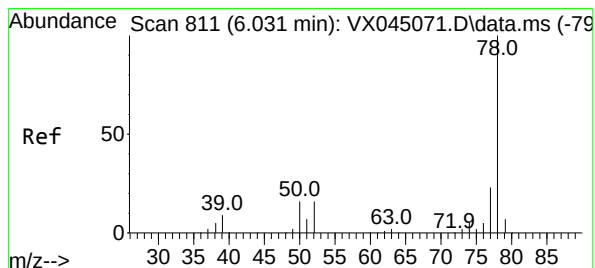
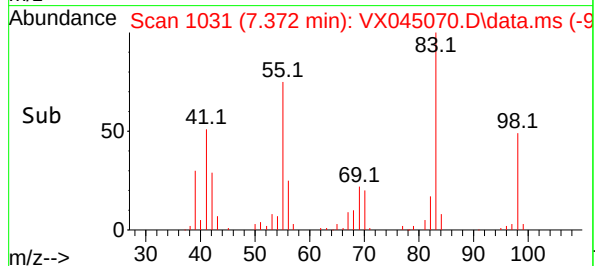
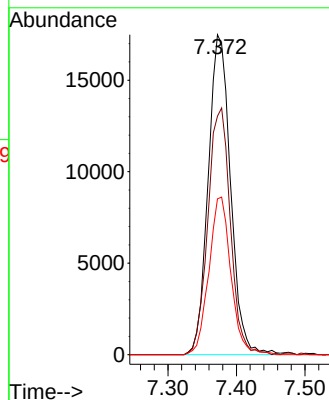
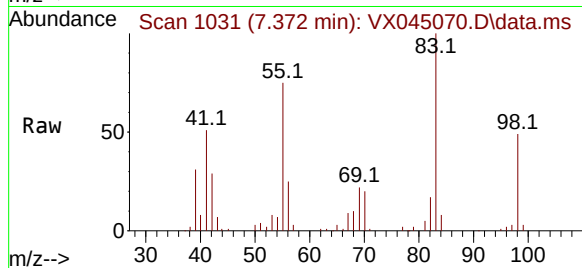
98 48.7 39.7 59.5

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

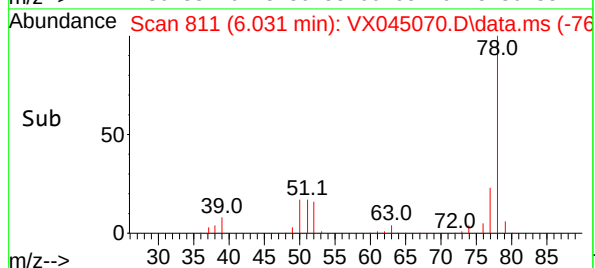
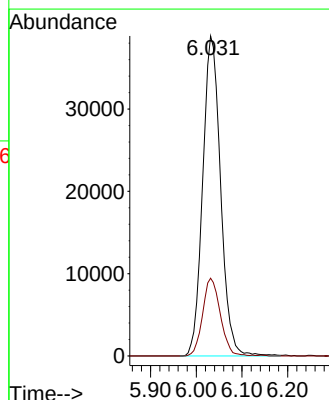
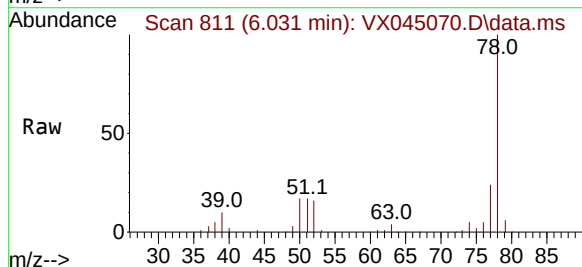
Acq: 28 Feb 2025 02:37

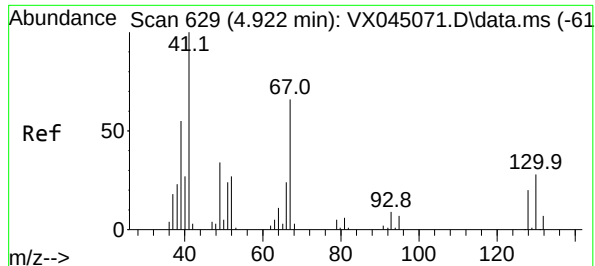
Tgt Ion: 78 Resp: 105787

Ion Ratio Lower Upper

78 100

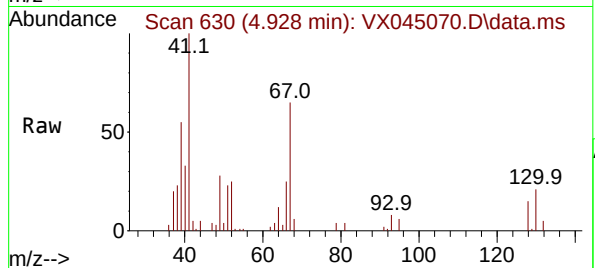
77 24.3 18.8 28.2





#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

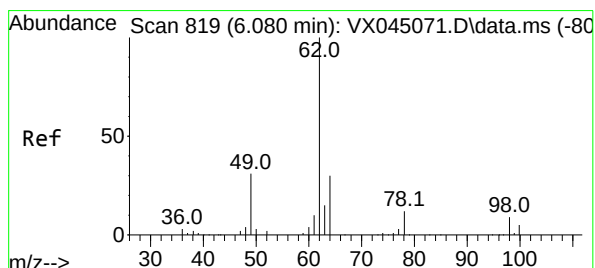
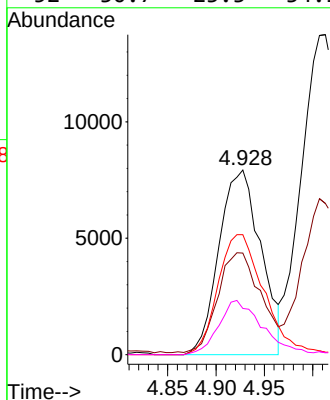
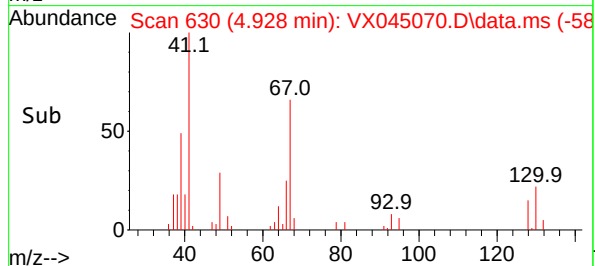
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



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

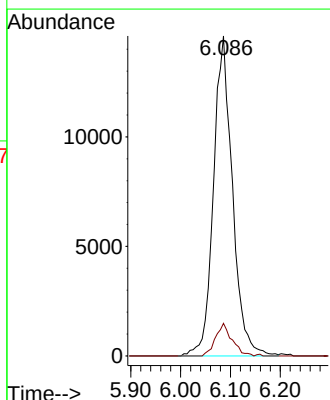
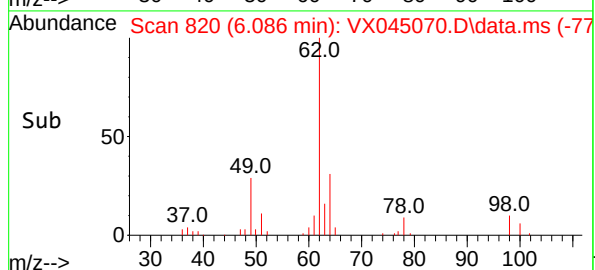
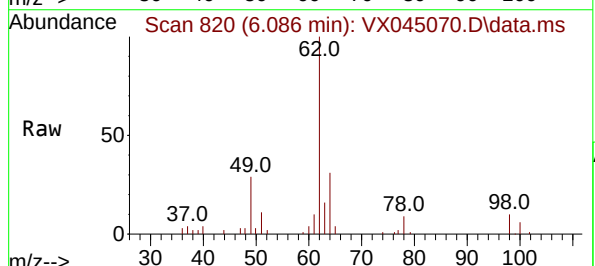
Manual Integrations
APPROVED

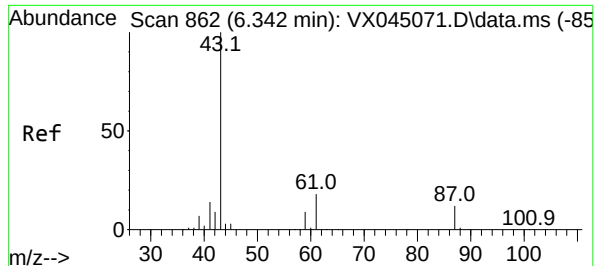
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

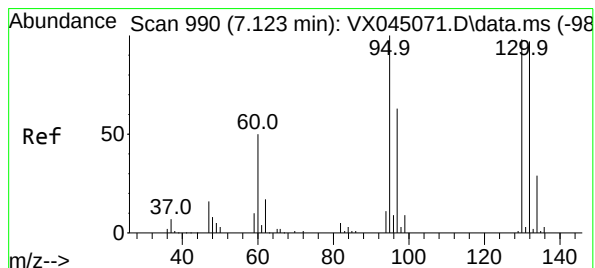
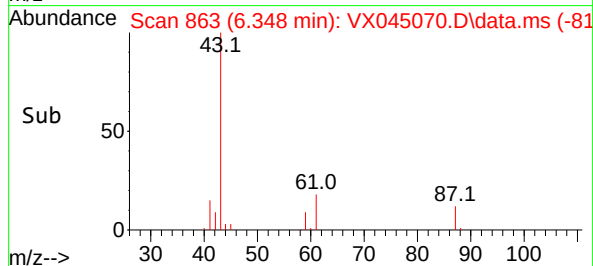
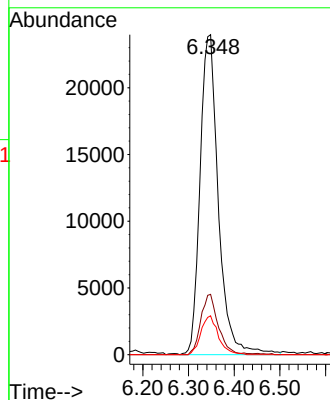
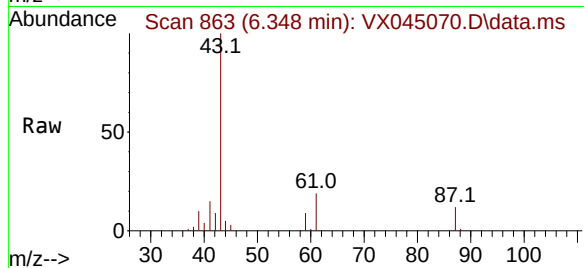
Tgt Ion:	43	Resp:	6672
Ion	Ratio	Lower	Upper
43	100		
61	17.8	14.9	22.3
87	11.5	9.4	14.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#44

Trichloroethene

Concen: 20.191 ug/l

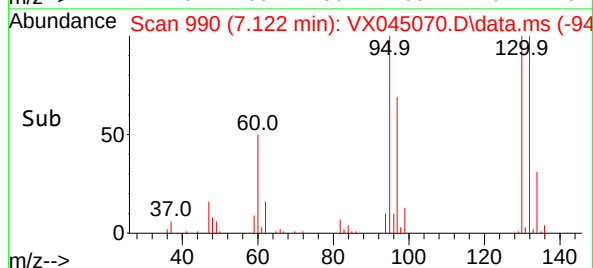
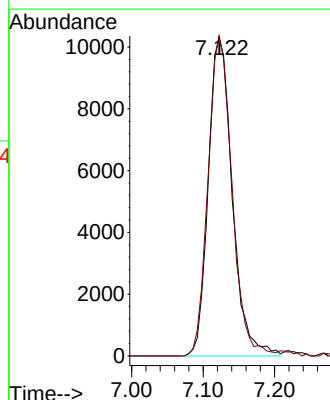
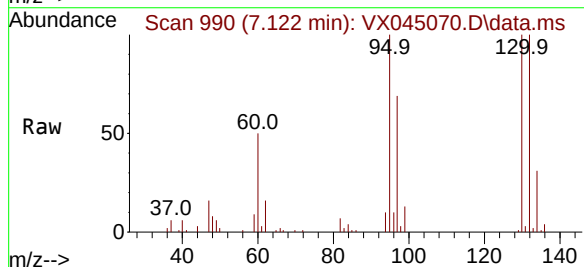
RT: 7.122 min Scan# 990

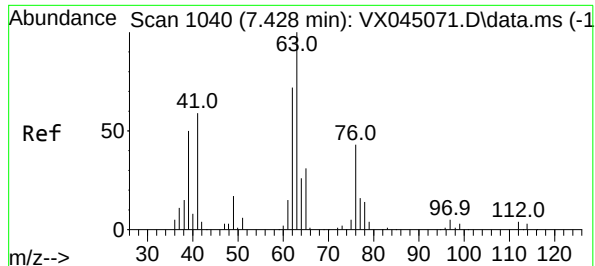
Delta R.T. -0.000 min

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

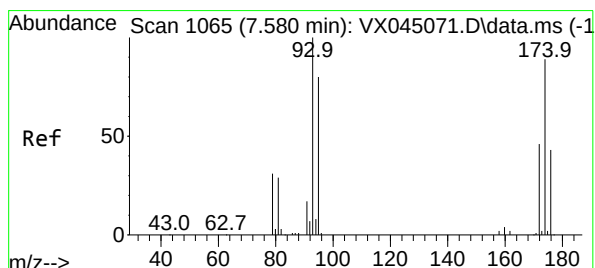
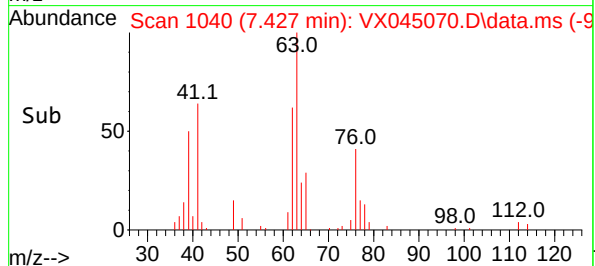
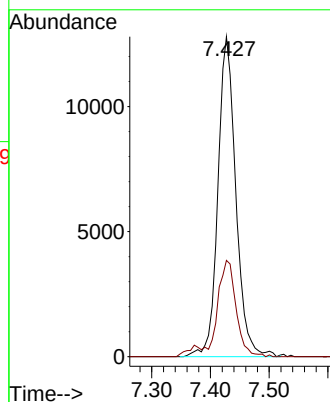
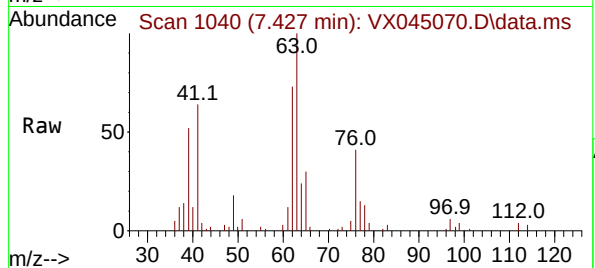
65 30.1 24.7 37.1

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

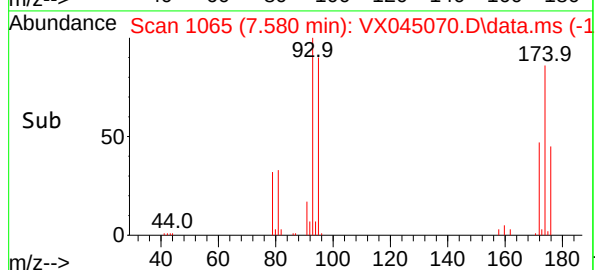
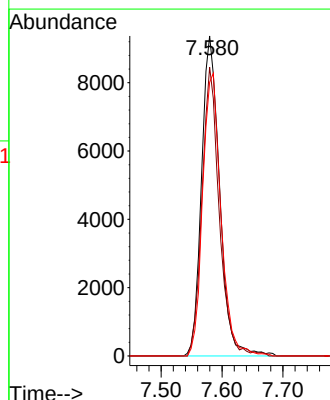
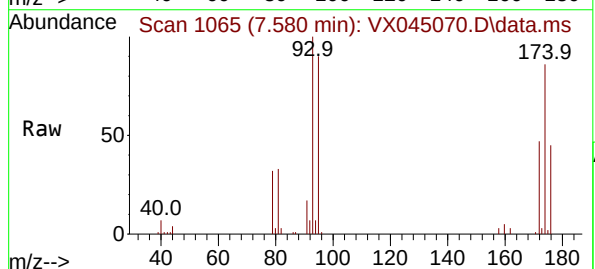
Tgt Ion: 93 Resp: 19323

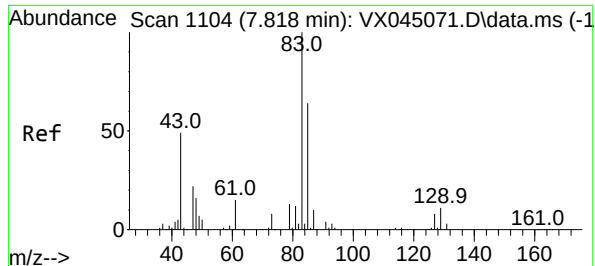
Ion Ratio Lower Upper

93 100

95 86.4 65.8 98.8

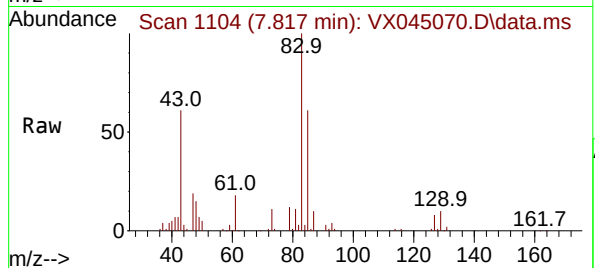
174 89.6 72.2 108.2





#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

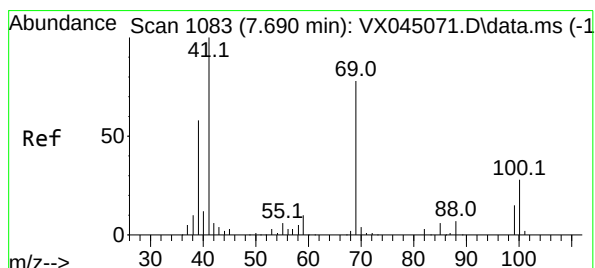
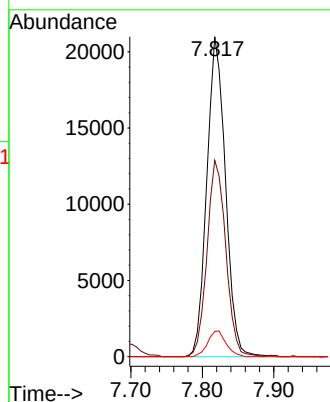
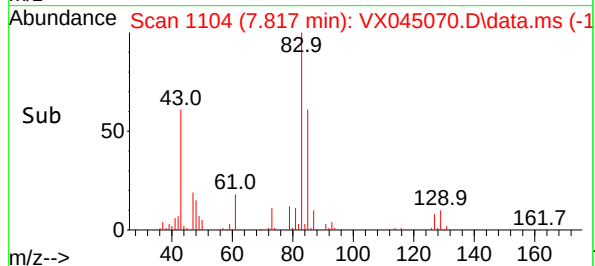
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



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

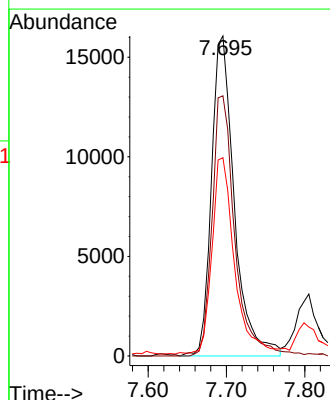
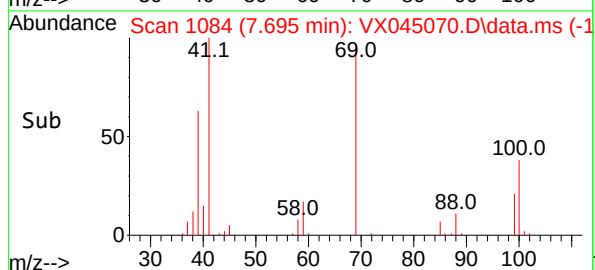
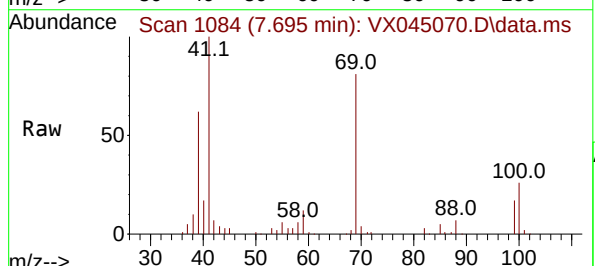
Manual Integrations
APPROVED

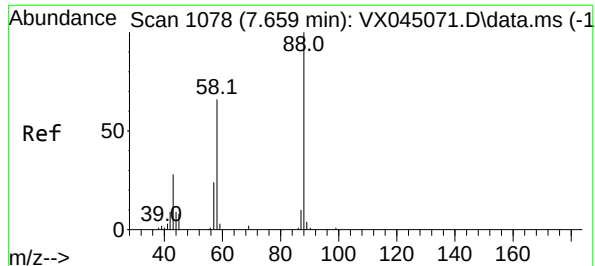
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

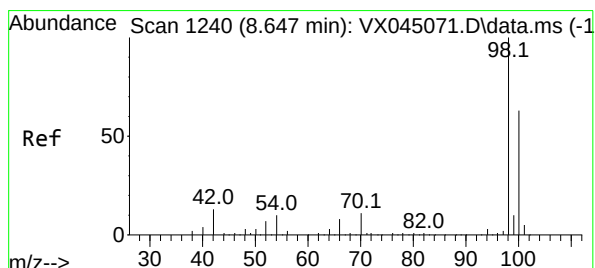
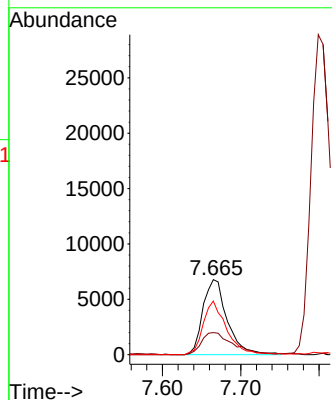
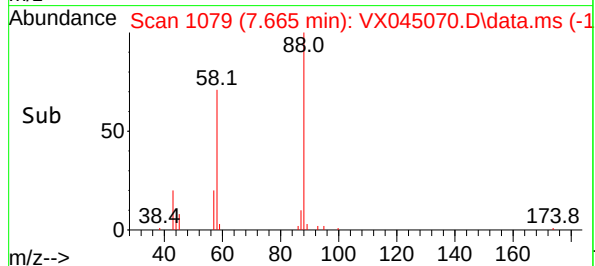
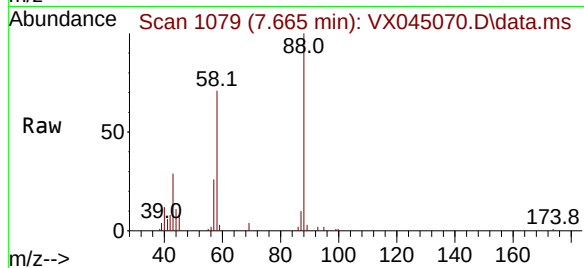
58 68.3 55.8 83.8

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

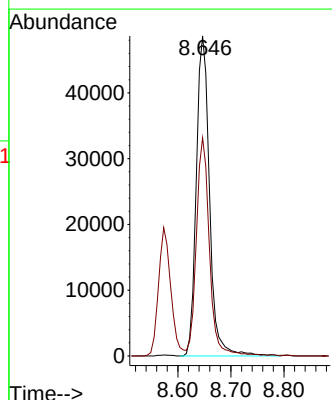
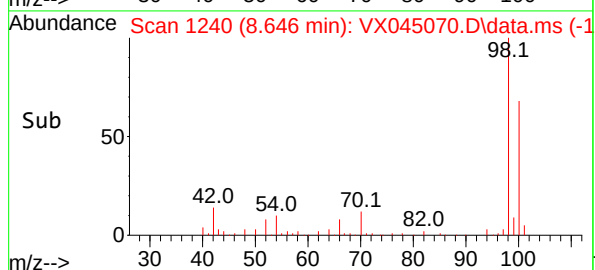
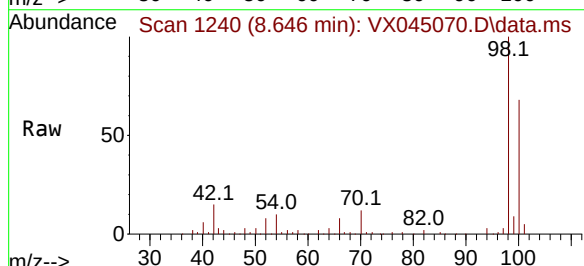
Acq: 28 Feb 2025 02:37

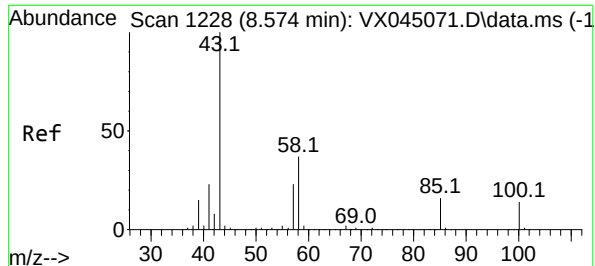
Tgt Ion: 98 Resp: 84516

Ion Ratio Lower Upper

98 100

100 67.2 52.0 78.0





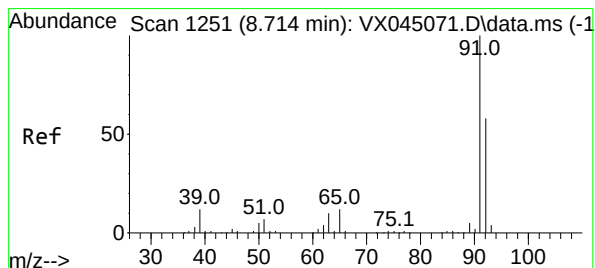
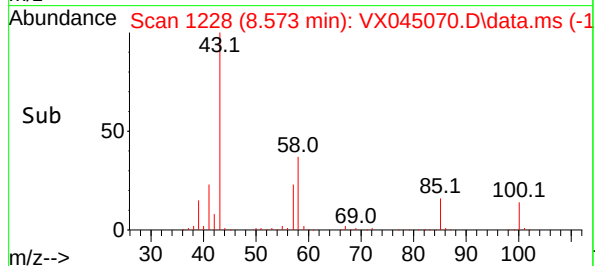
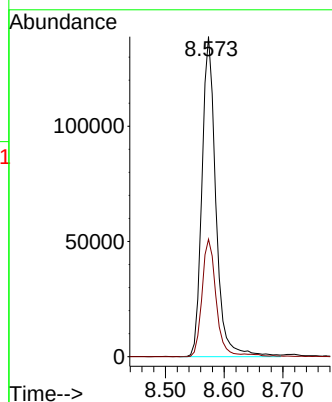
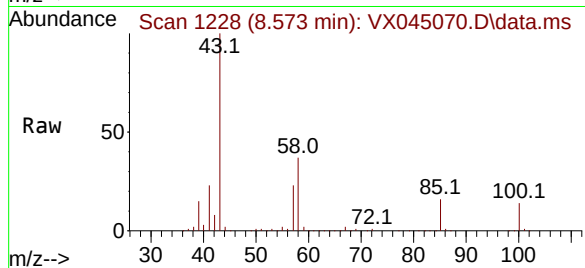
#51
4-Methyl-2-Pentanone
Concen: 124.081 ug/l
RT: 8.573 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 229615
Ion Ratio Lower Upper
43 100
58 37.5 29.2 43.8

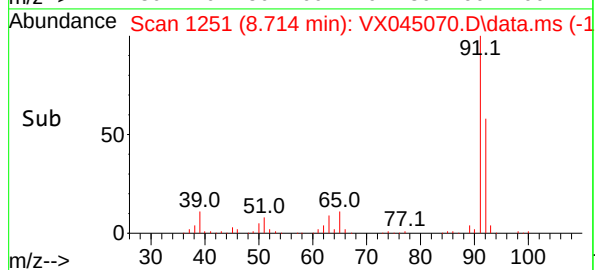
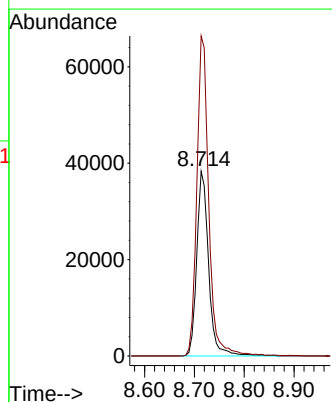
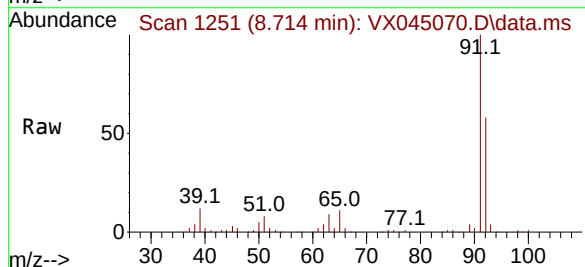
Manual Integrations
APPROVED

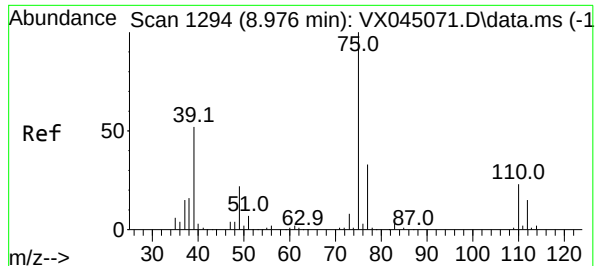
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

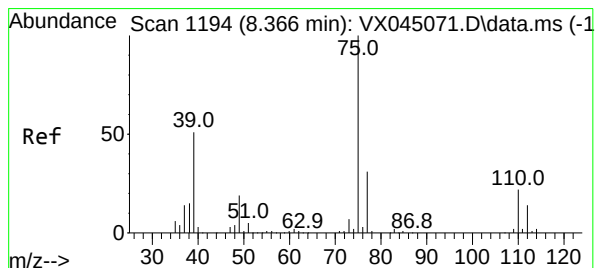
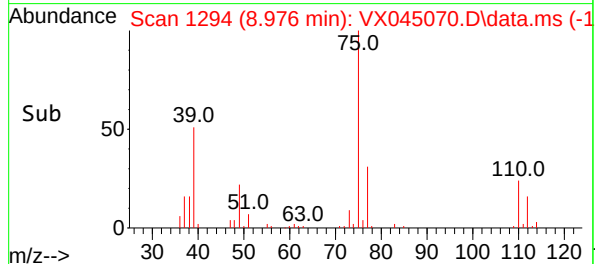
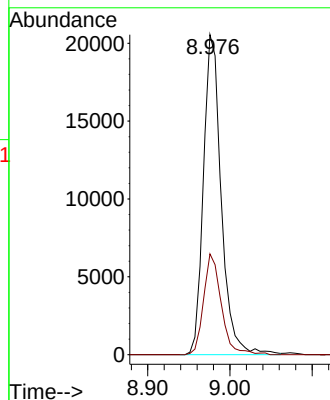
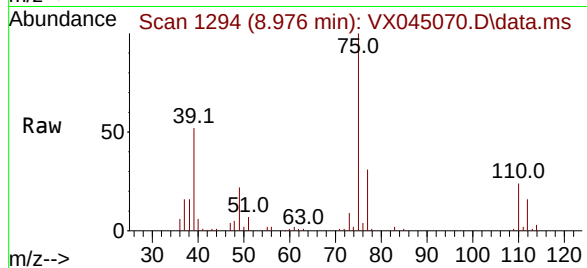
77 31.5 26.5 39.7

Manual Integrations

APPROVED

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

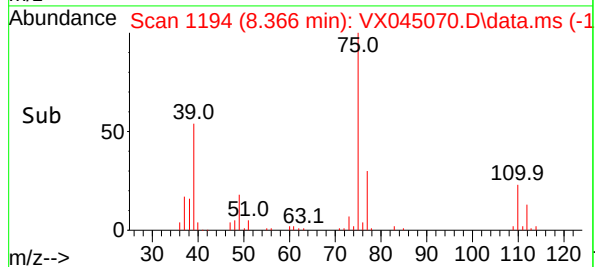
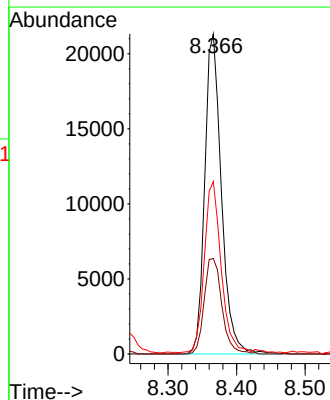
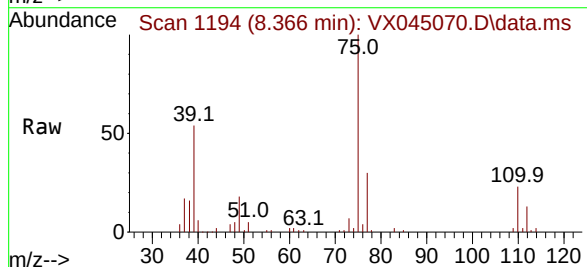
Tgt Ion: 75 Resp: 36118

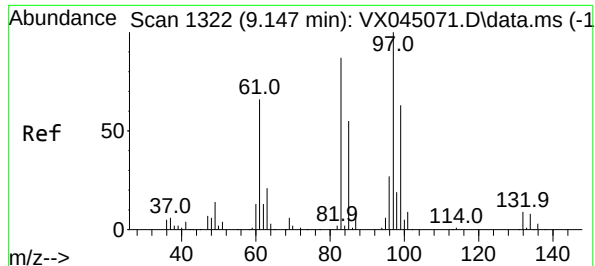
Ion Ratio Lower Upper

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

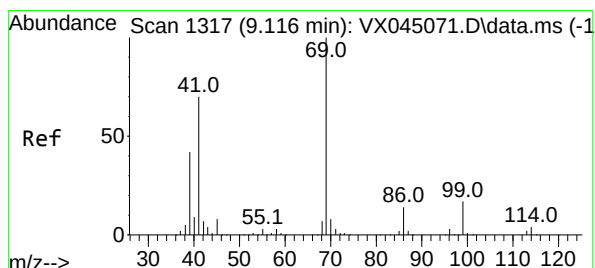
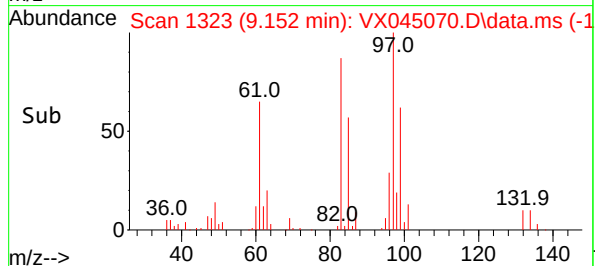
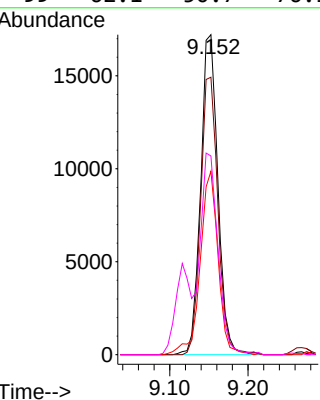
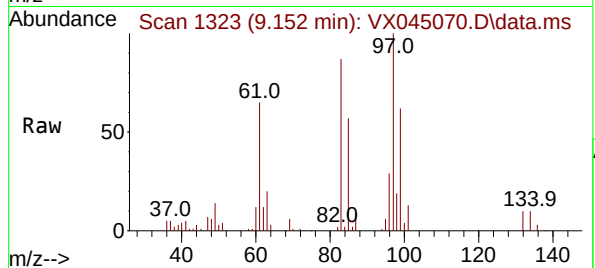
99 62.1 50.7 76.1

Manual Integrations

APPROVED

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

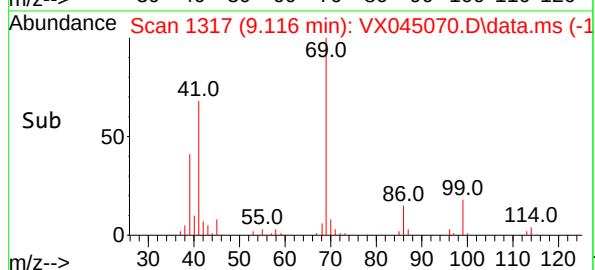
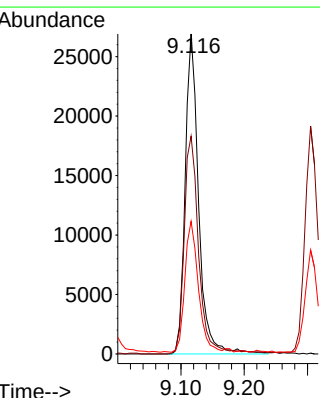
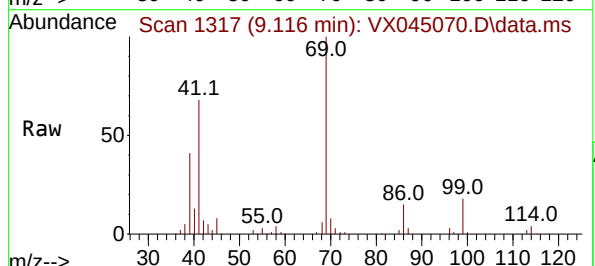
Tgt Ion: 69 Resp: 39850

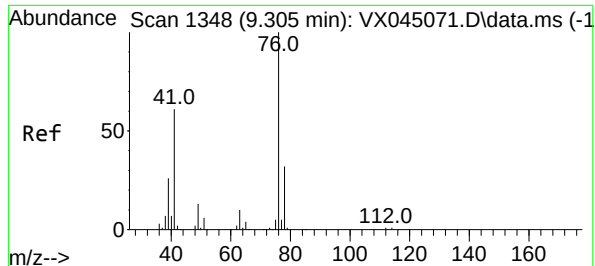
Ion Ratio Lower Upper

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# 1173

Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 4564

Ion Ratio Lower Upper

76 100

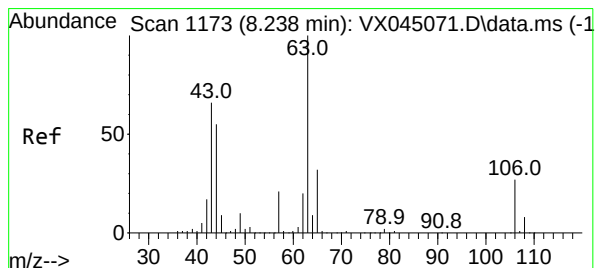
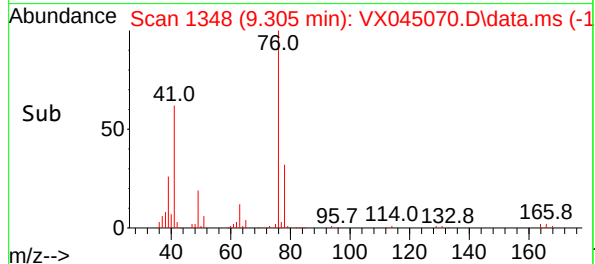
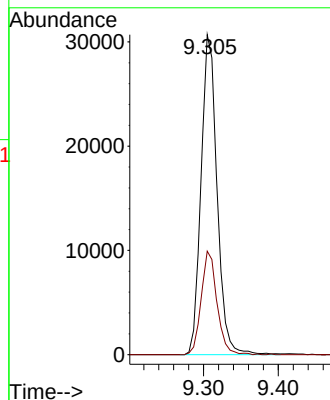
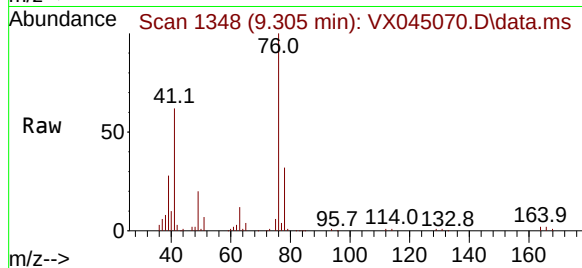
78 31.9 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#58

2-Chloroethyl Vinyl ether

Concen: 102.342 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX045070.D

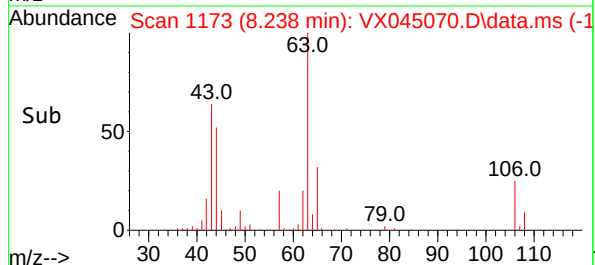
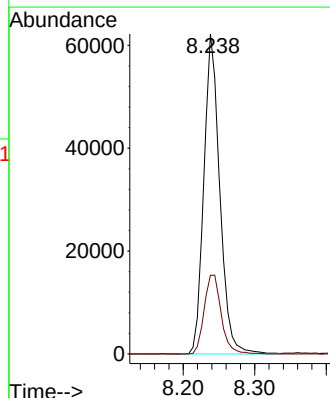
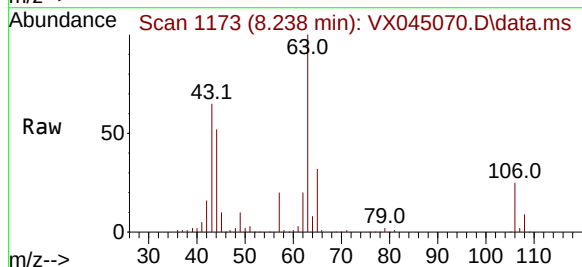
Acq: 28 Feb 2025 02:37

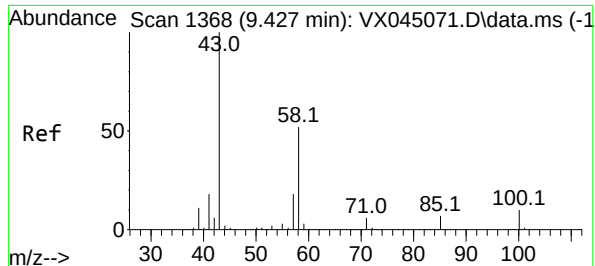
Tgt Ion: 63 Resp: 96311

Ion Ratio Lower Upper

63 100

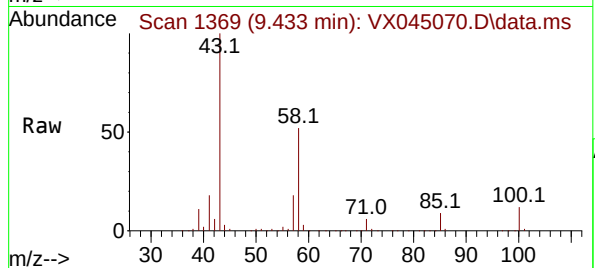
106 26.4 21.5 32.3





#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

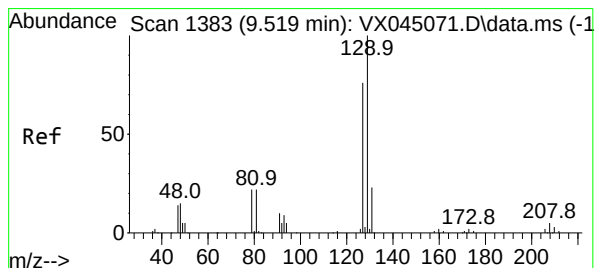
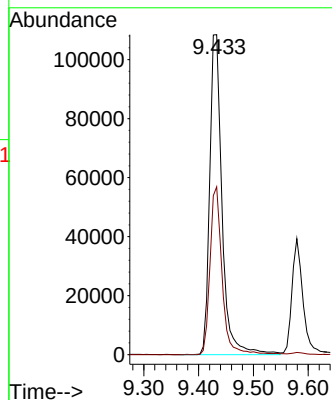
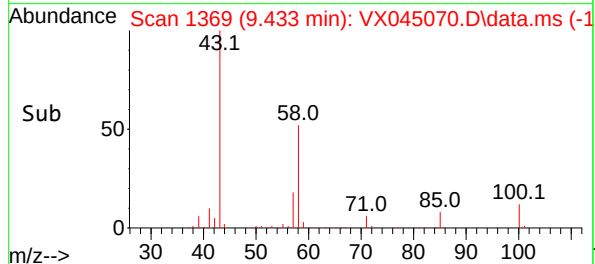
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



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

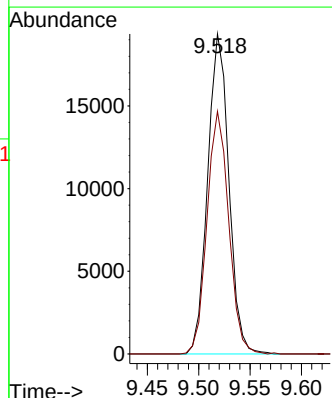
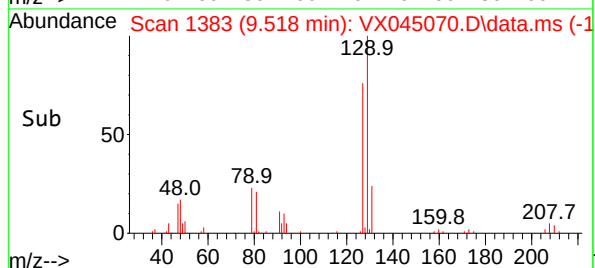
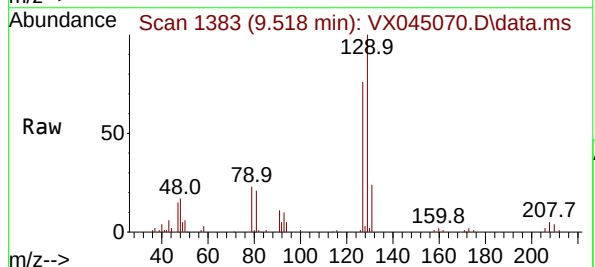
Manual Integrations
APPROVED

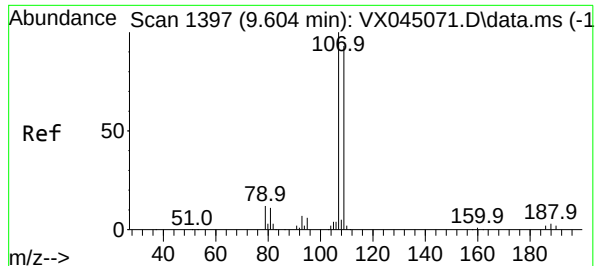
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#60
Dibromochloromethane
Concen: 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

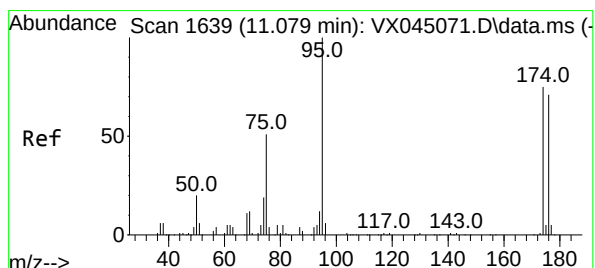
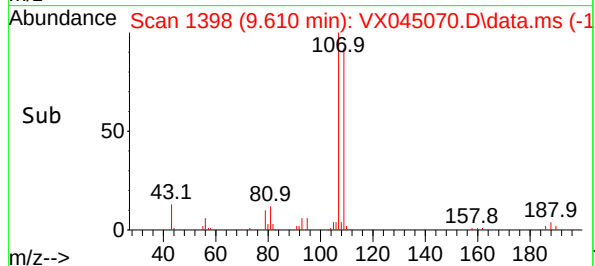
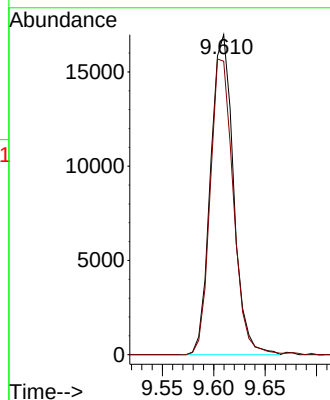
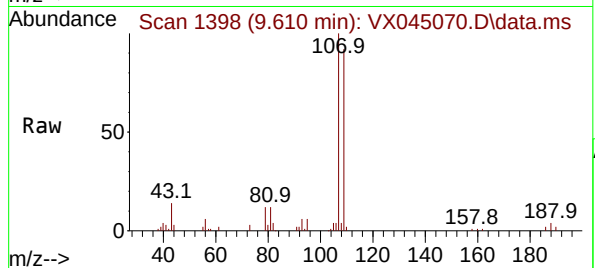
109 93.3 76.1 114.1

Manual Integrations

APPROVED

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

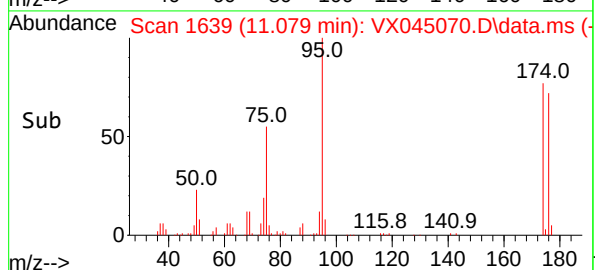
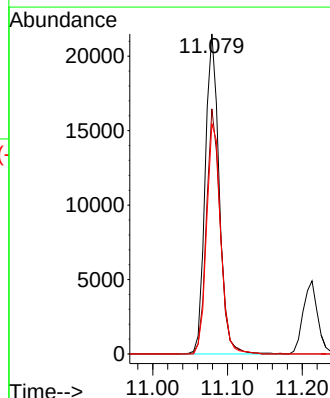
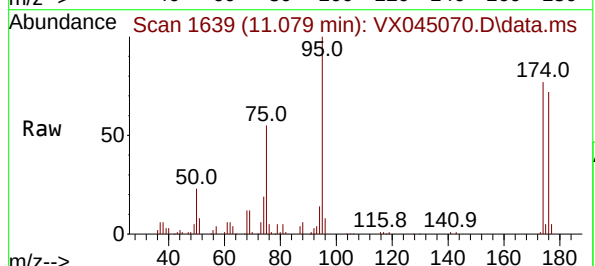
Tgt Ion: 95 Resp: 27856

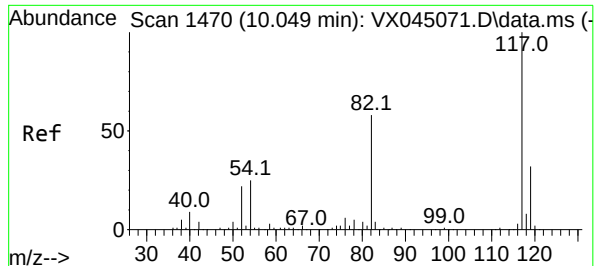
Ion Ratio Lower Upper

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

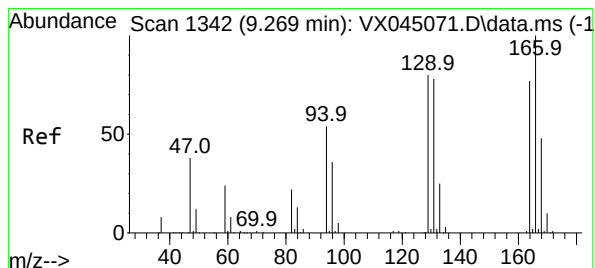
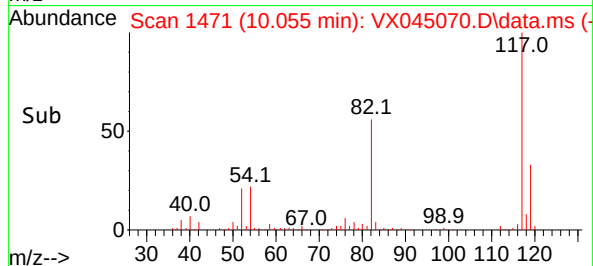
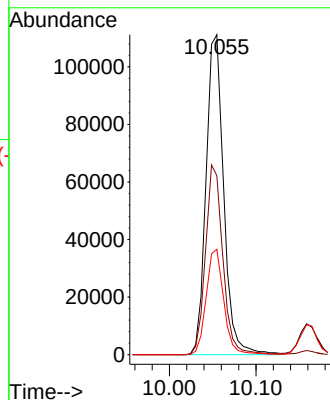
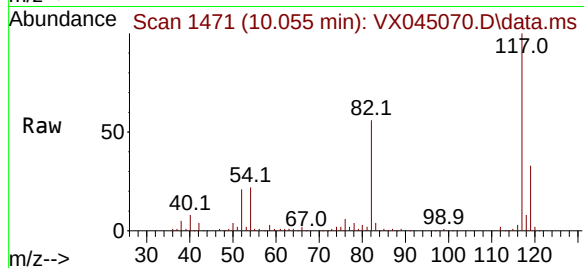
119 33.0 25.7 38.5

Manual Integrations

APPROVED

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

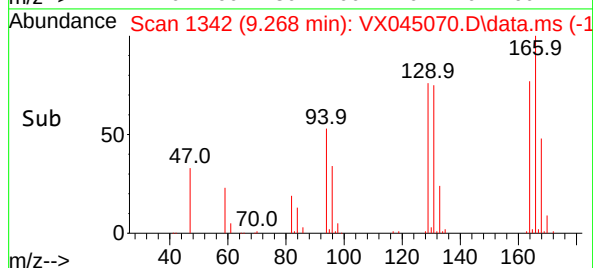
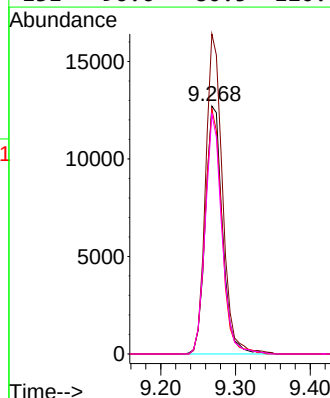
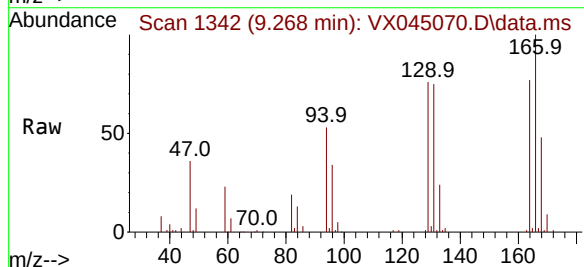
Ion Ratio Lower Upper

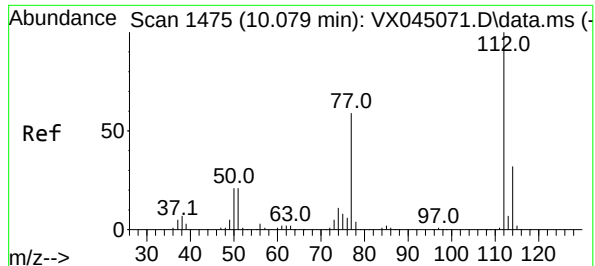
164 100

166 129.1 103.6 155.4

129 98.7 82.7 124.1

131 96.6 80.5 120.7





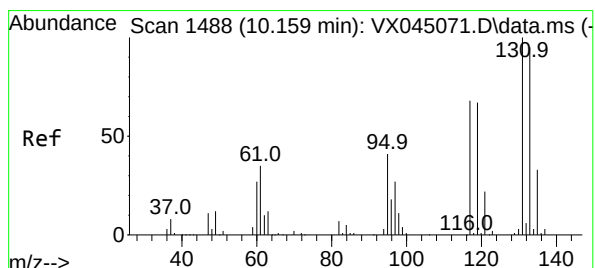
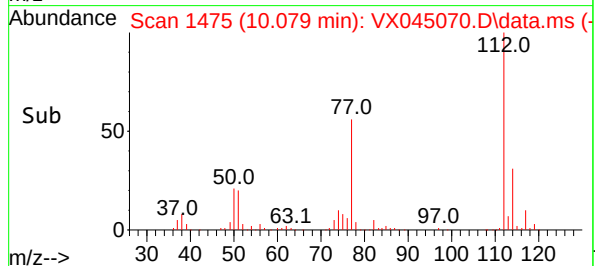
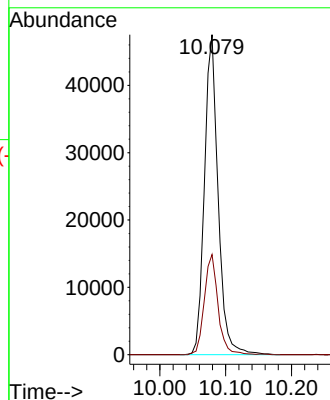
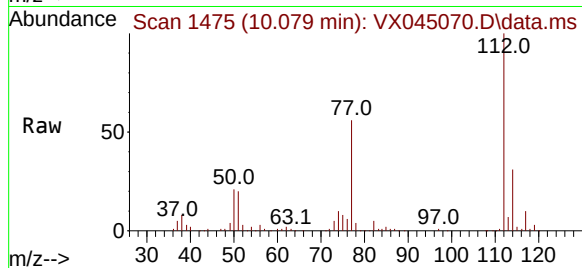
#65
Chlorobenzene
Concen: 20.316 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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

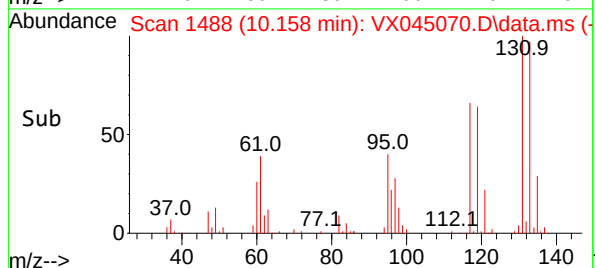
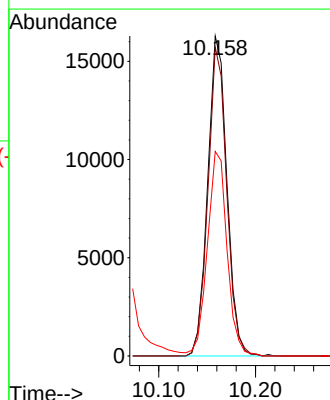
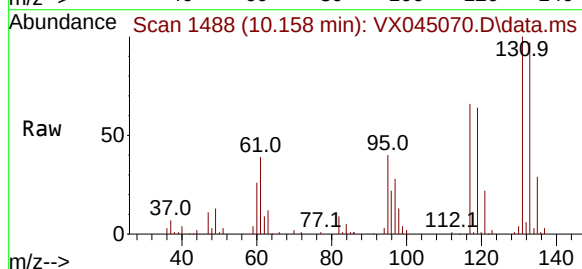
Manual Integrations
APPROVED

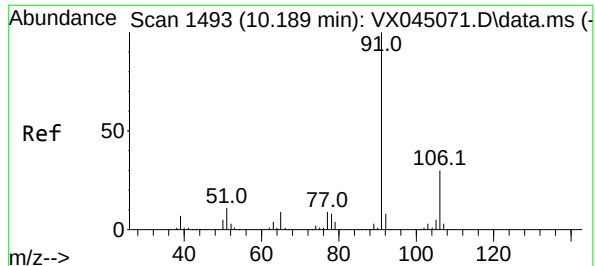
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

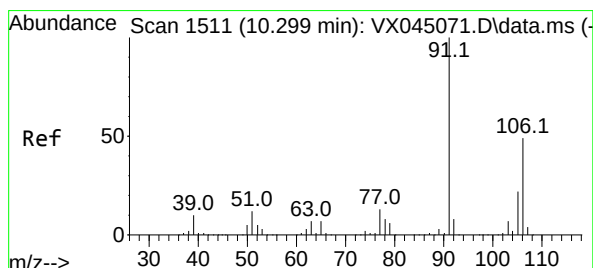
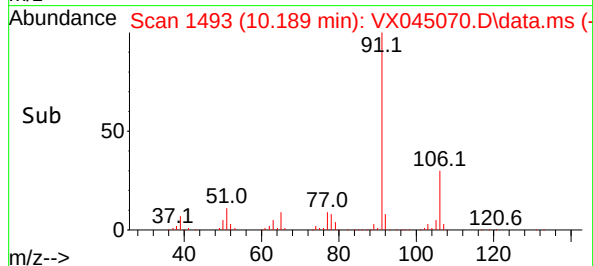
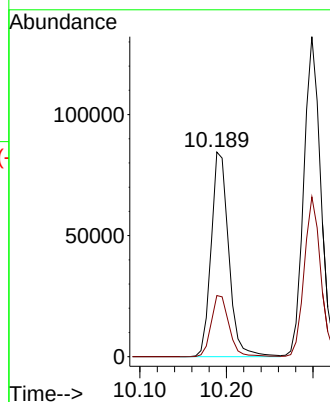
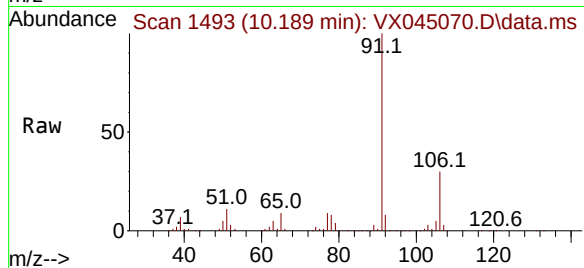
106 29.9 23.9 35.9

Manual Integrations

APPROVED

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

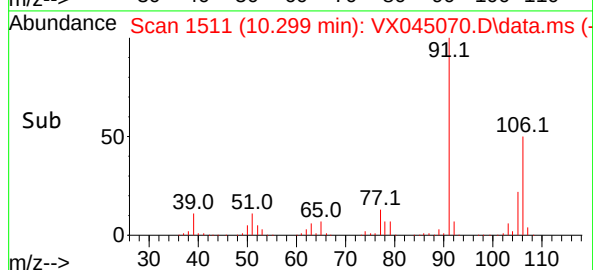
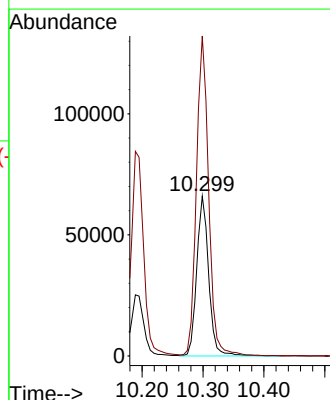
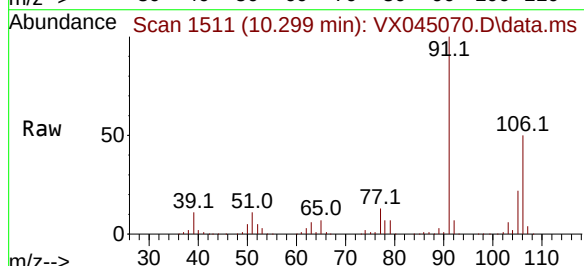
Acq: 28 Feb 2025 02:37

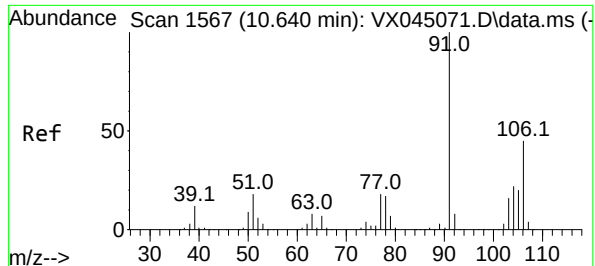
Tgt Ion:106 Resp: 89735

Ion Ratio Lower Upper

106 100

91 204.2 165.4 248.0





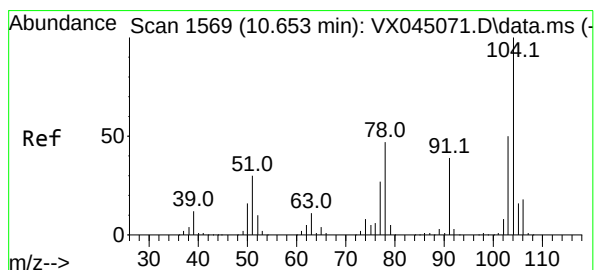
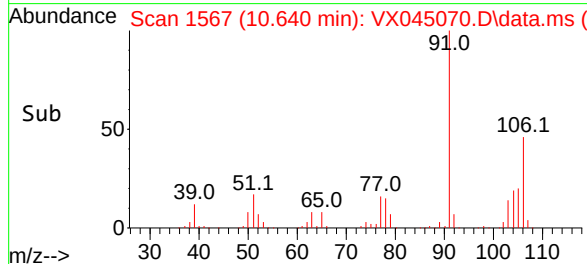
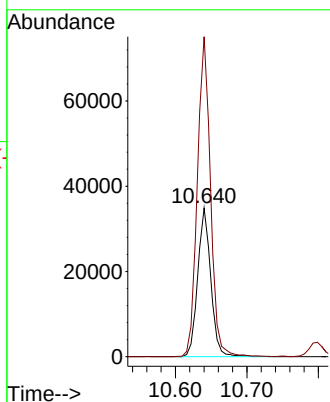
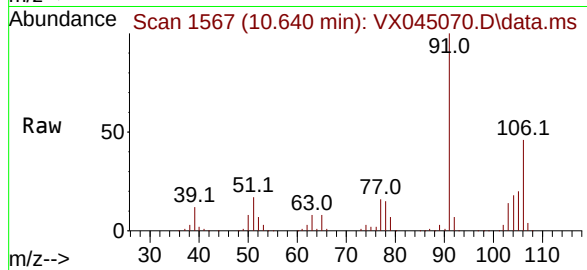
#69
o-Xylene
Concen: 20.018 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tgt Ion:106 Resp: 4428
Ion Ratio Lower Upper
106 100
91 216.8 109.9 329.6

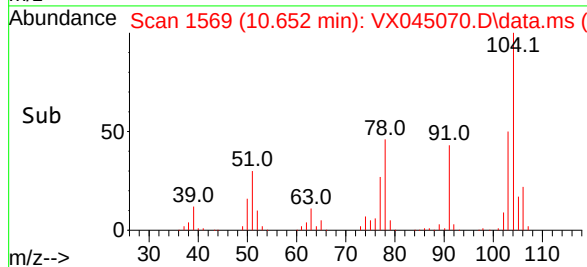
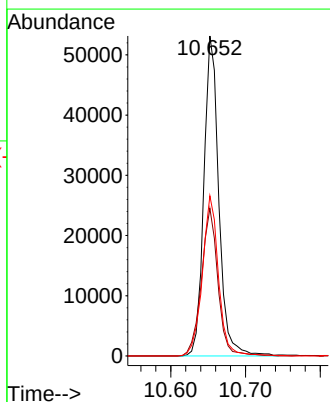
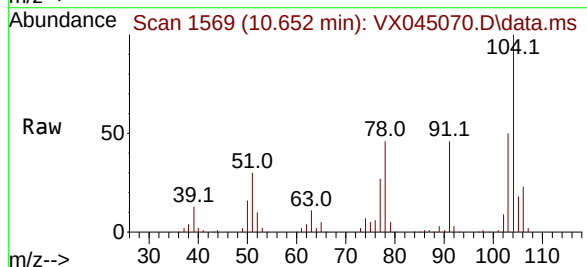
Manual Integrations
APPROVED

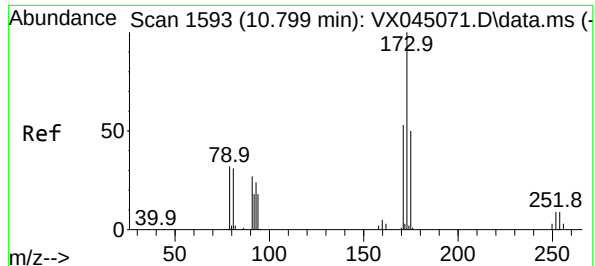
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

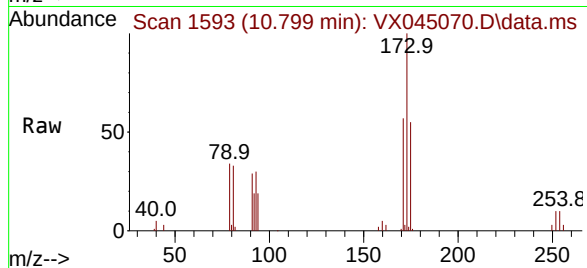
Tgt Ion:104 Resp: 73832
Ion Ratio Lower Upper
104 100
78 50.9 42.2 63.4
103 54.1 43.8 65.8





#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

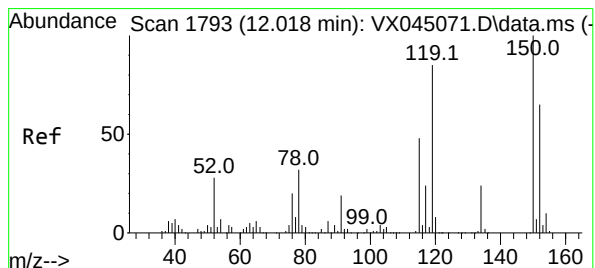
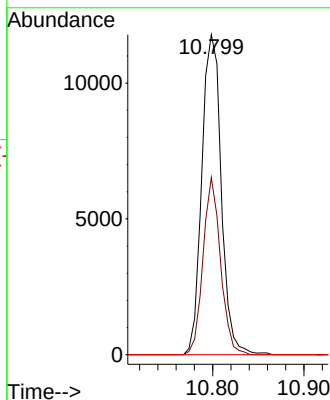
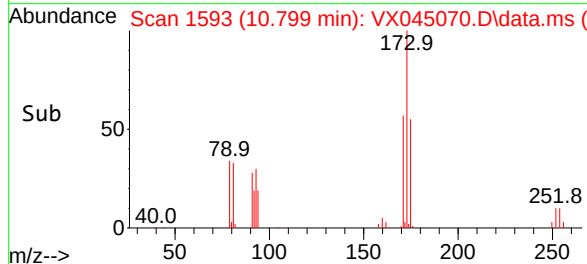
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



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

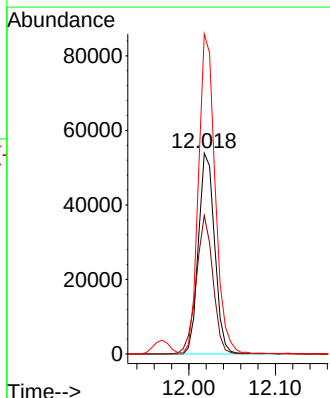
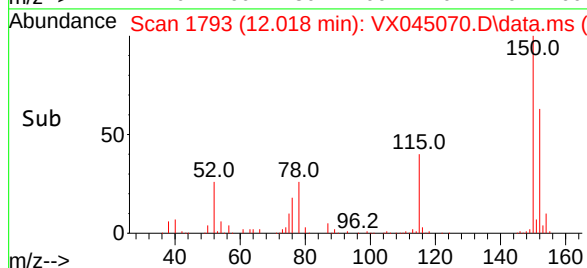
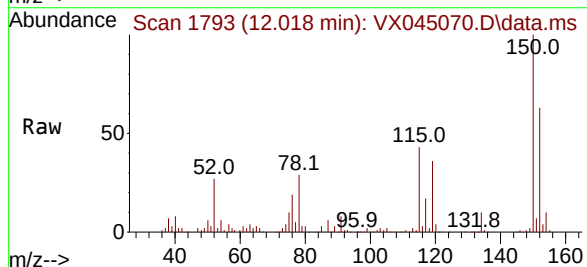
Manual Integrations
APPROVED

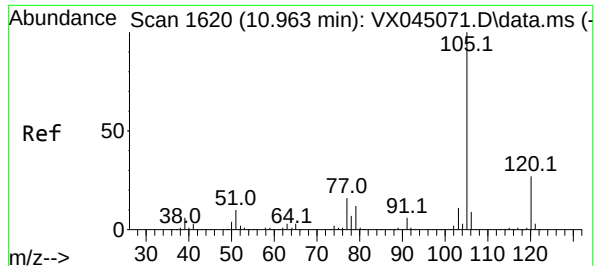
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

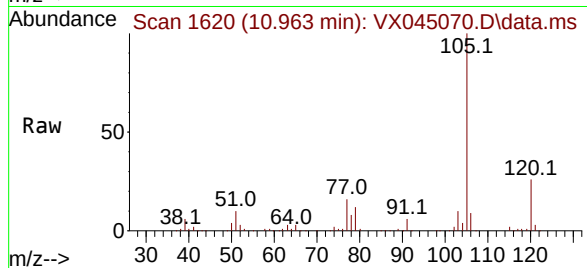
Tgt Ion:152 Resp: 70072
Ion Ratio Lower Upper
152 100
115 70.9 44.2 132.6
150 163.4 0.0 349.0





#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

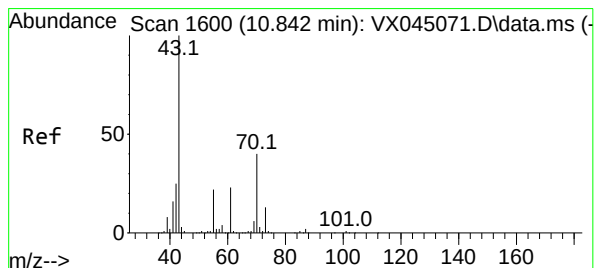
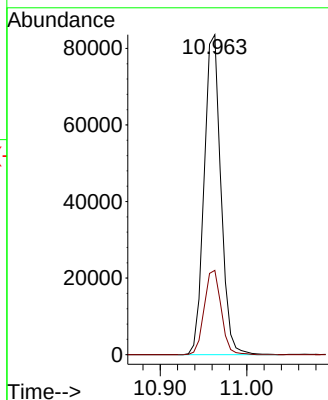
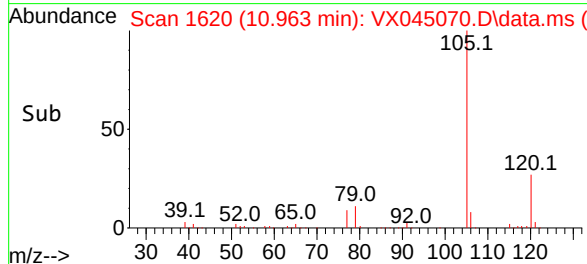
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



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

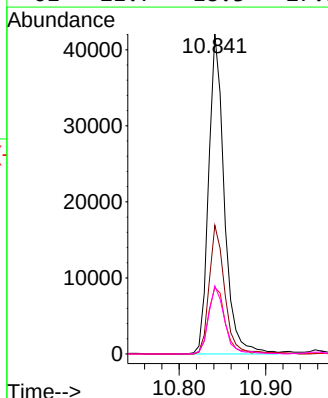
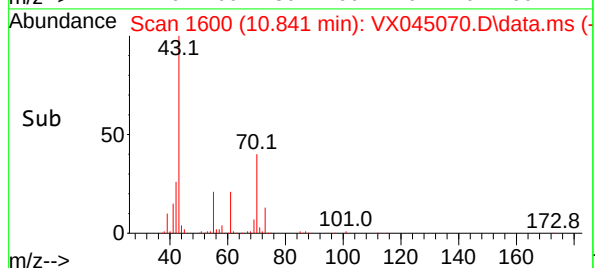
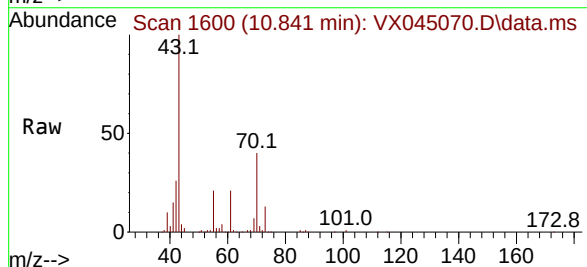
Manual Integrations
APPROVED

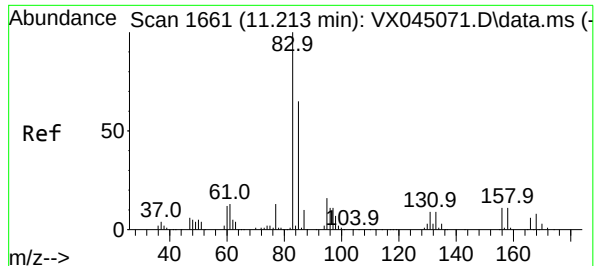
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





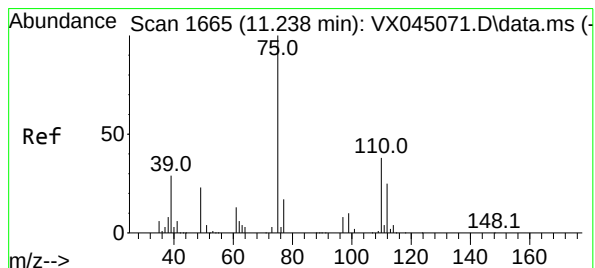
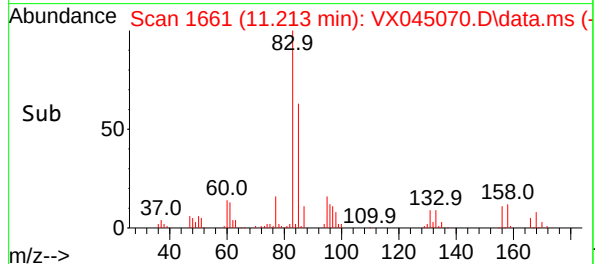
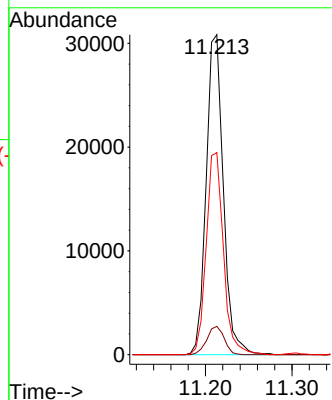
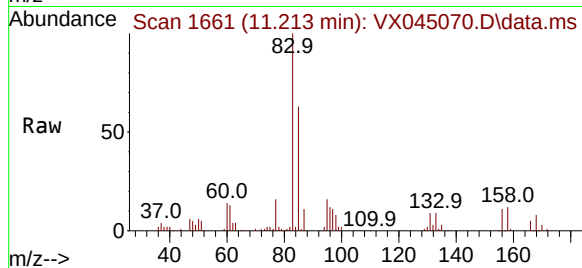
#75
1,1,2,2-Tetrachloroethane
Concen: 21.738 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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

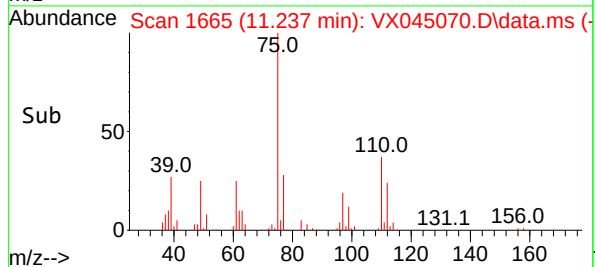
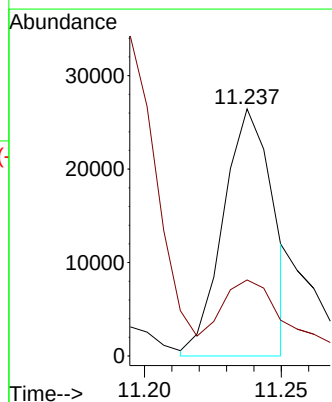
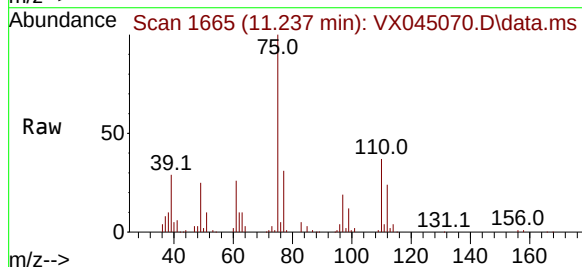
Manual Integrations
APPROVED

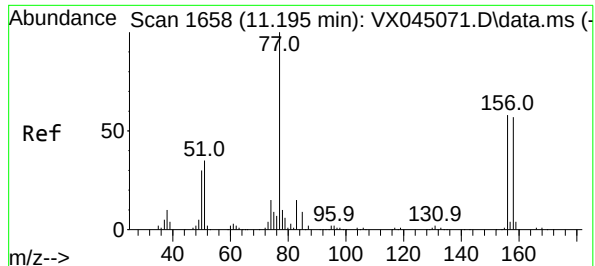
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

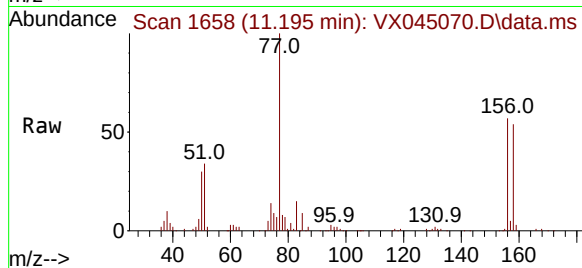
Tgt Ion: 75 Resp: 33440
Ion Ratio Lower Upper
75 100
77 40.6 20.7 62.1





#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

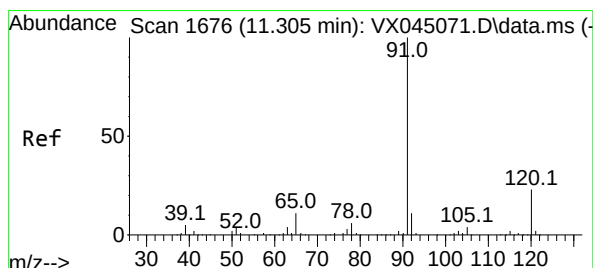
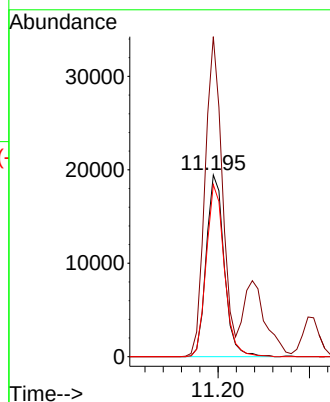
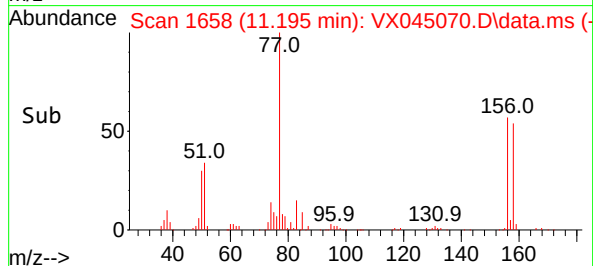
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



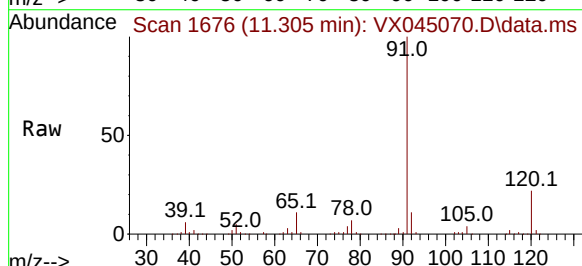
Tgt Ion:156 Resp: 26310
Ion Ratio Lower Upper
156 100
77 170.2 85.8 257.4
158 95.9 48.4 145.2

Manual Integrations
APPROVED

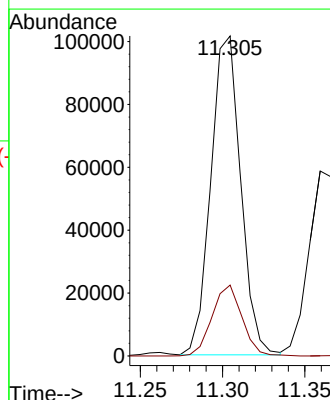
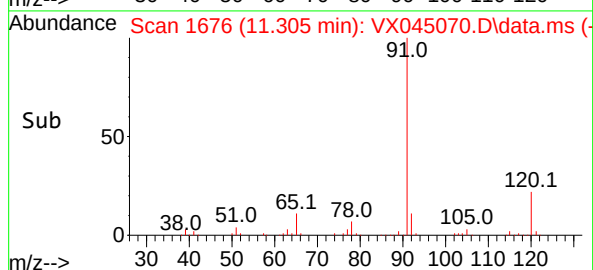
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

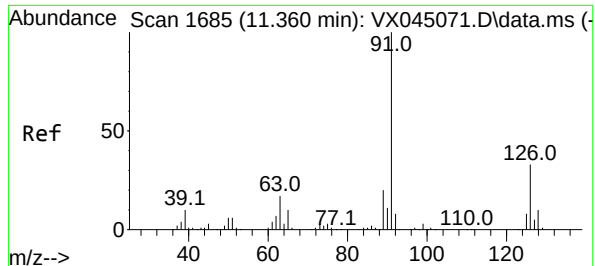


#78
n-propylbenzene
Concen: 19.641 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37



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 :

VSTDIC020

Tgt Ion: 91 Resp: 79275

Ion Ratio Lower Upper

91 100

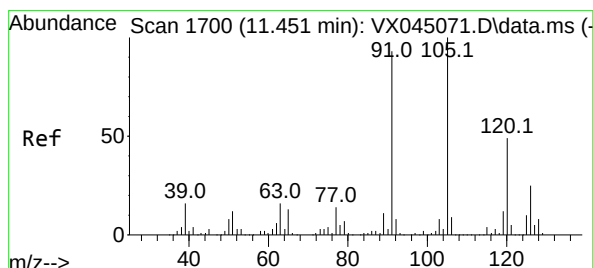
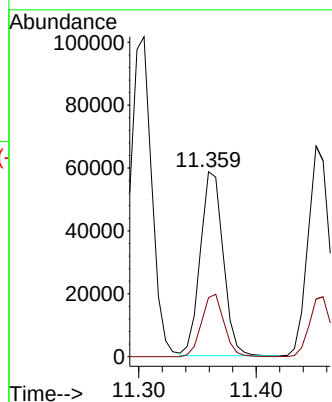
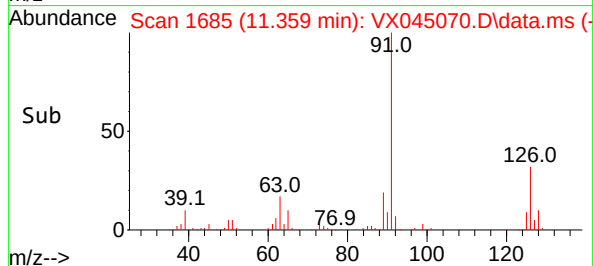
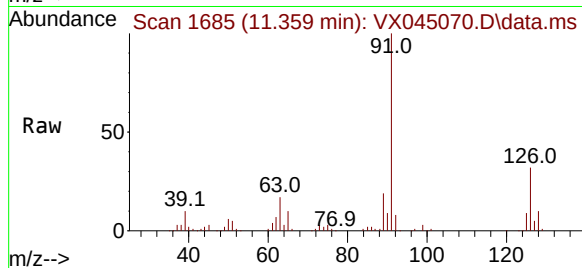
126 33.1 16.4 49.4

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

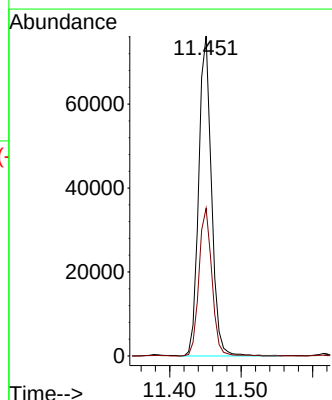
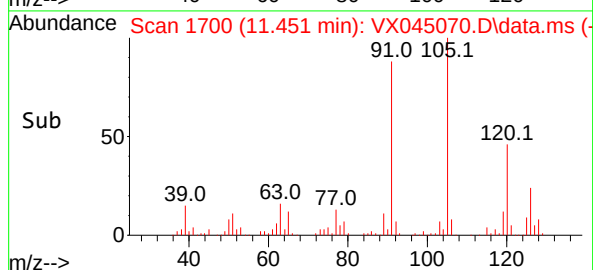
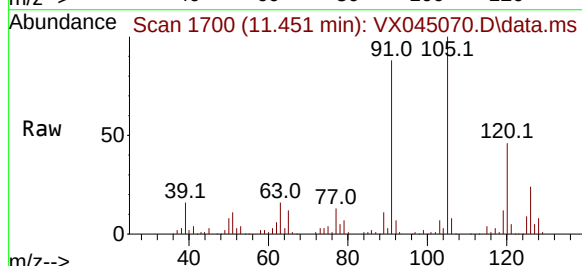
Acq: 28 Feb 2025 02:37

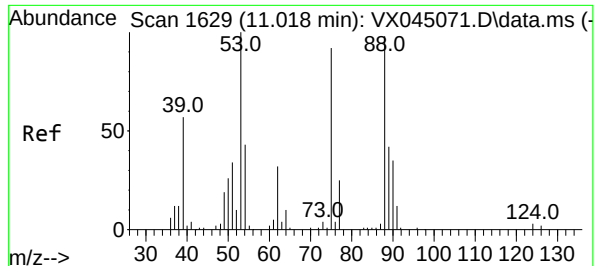
Tgt Ion:105 Resp: 94545

Ion Ratio Lower Upper

105 100

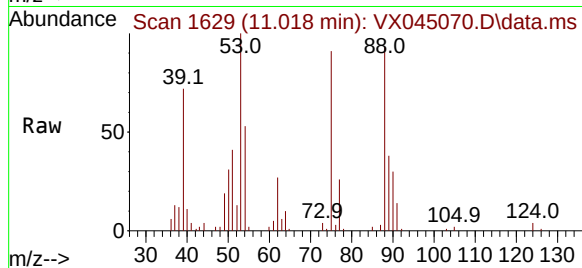
120 46.8 24.1 72.2





#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

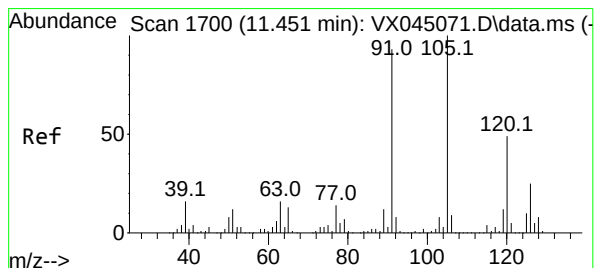
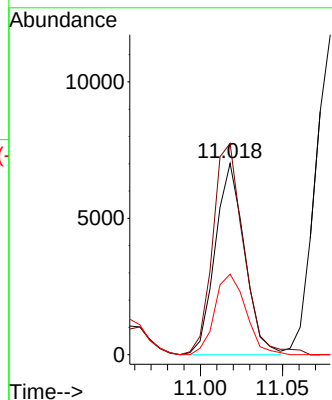
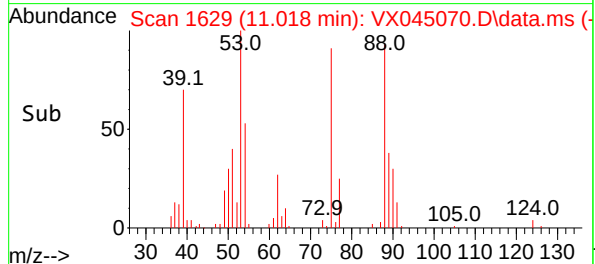
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



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

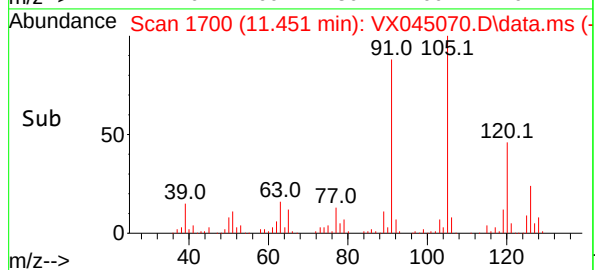
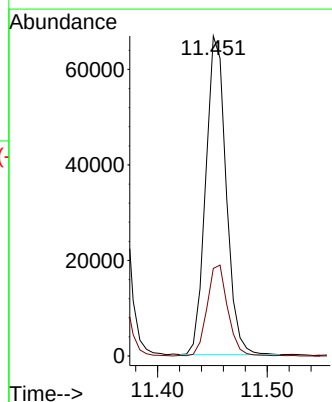
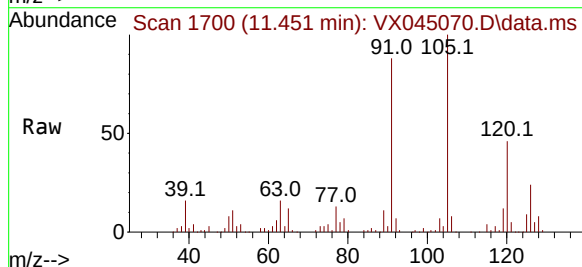
Manual Integrations
APPROVED

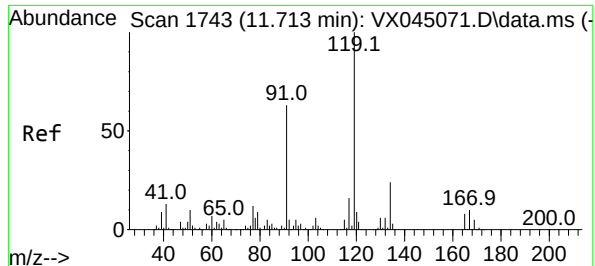
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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 :

VSTDIC020

Tgt Ion:119 Resp: 93670

Ion Ratio Lower Upper

119 100

91 60.0 30.7 92.1

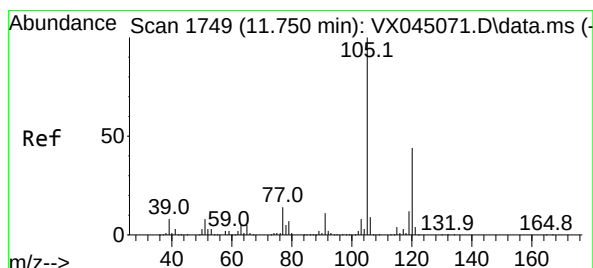
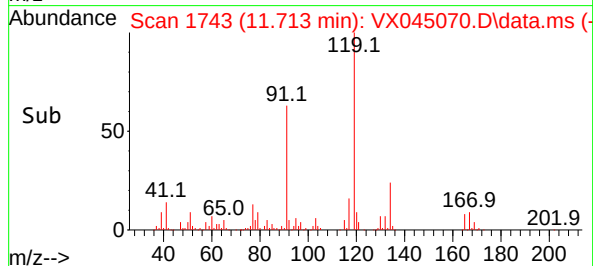
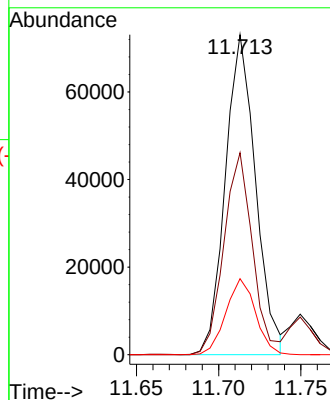
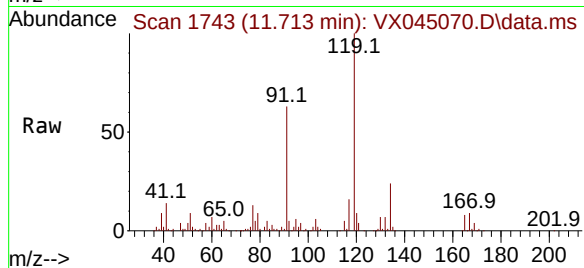
134 23.4 11.7 35.0

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

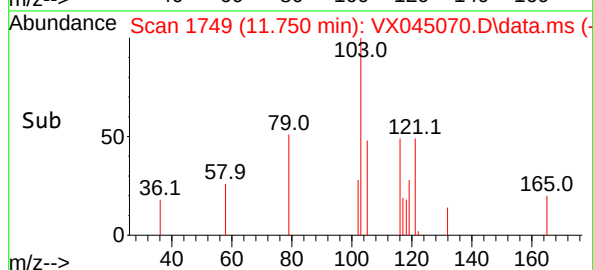
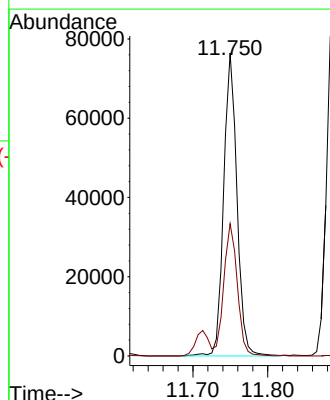
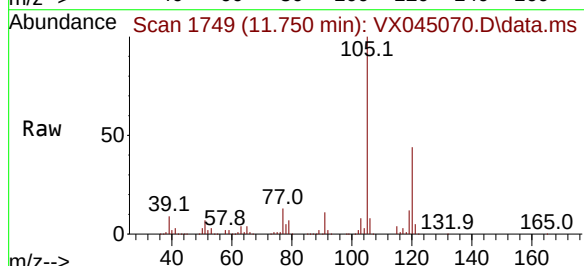
Acq: 28 Feb 2025 02:37

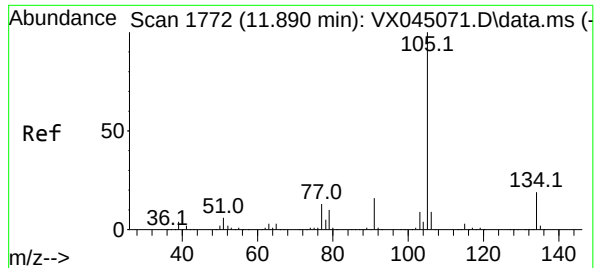
Tgt Ion:105 Resp: 94734

Ion Ratio Lower Upper

105 100

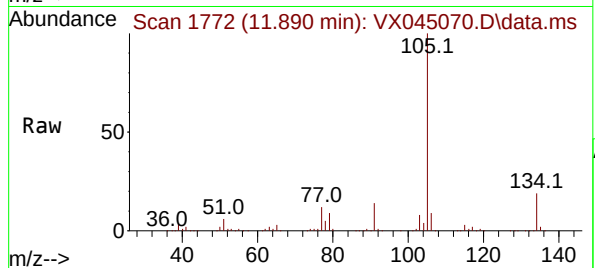
120 44.3 22.1 66.1





#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

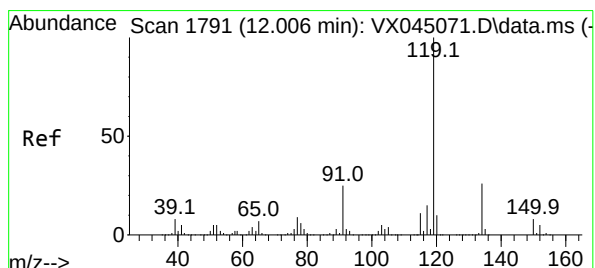
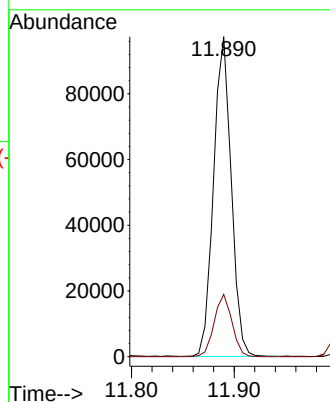
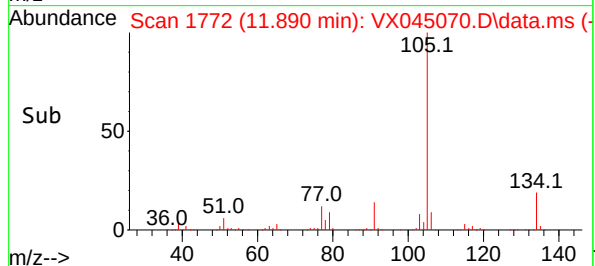
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



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

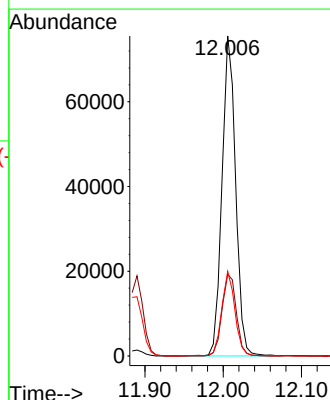
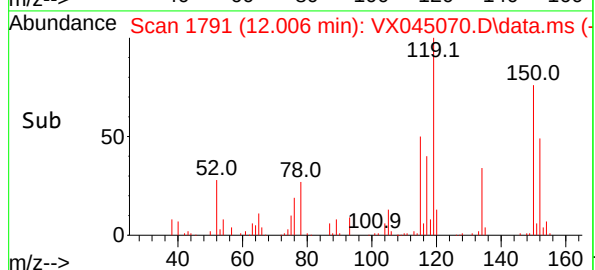
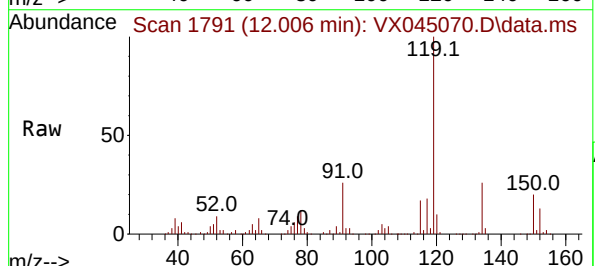
Manual Integrations
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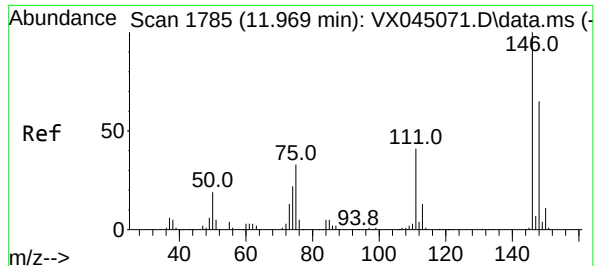
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

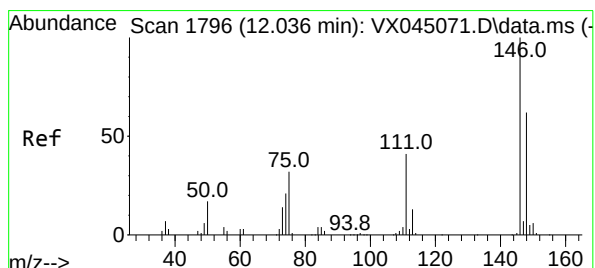
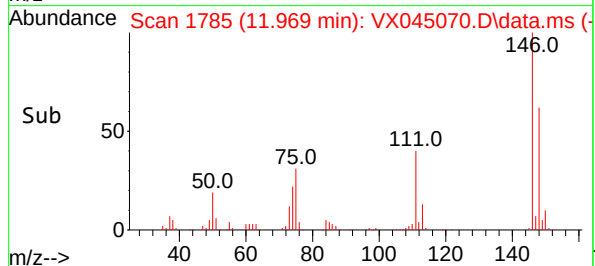
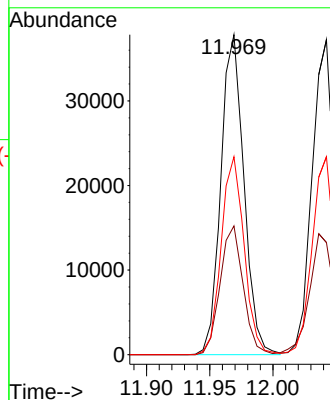
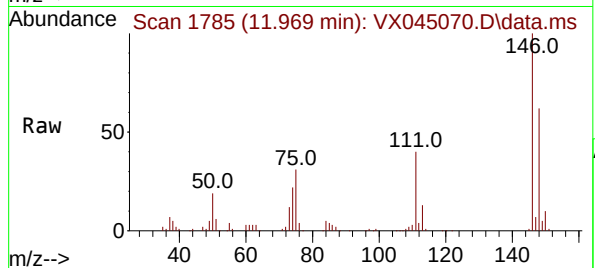
Tgt Ion:146 Resp: 47934
Ion Ratio Lower Upper
146 100
111 40.2 21.1 63.4
148 61.6 31.9 95.7

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

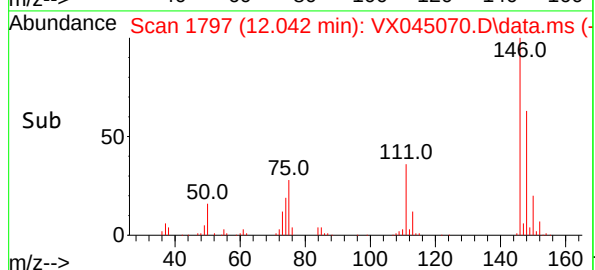
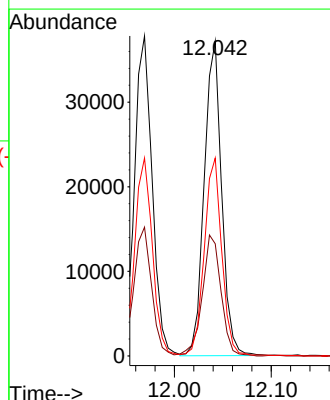
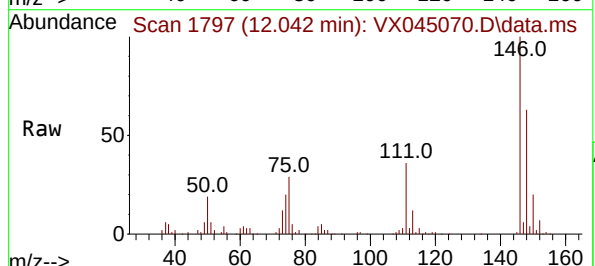
RT: 12.042 min Scan# 1797

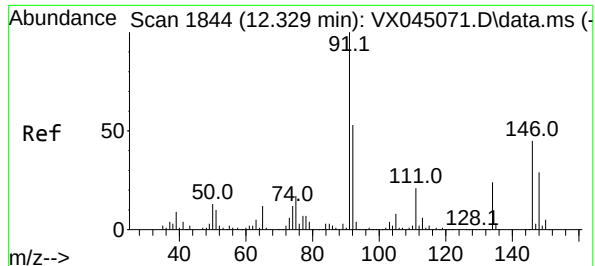
Delta R.T. 0.006 min

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

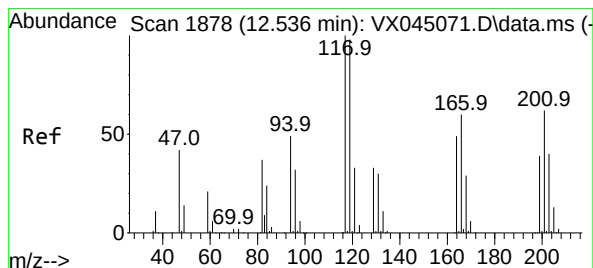
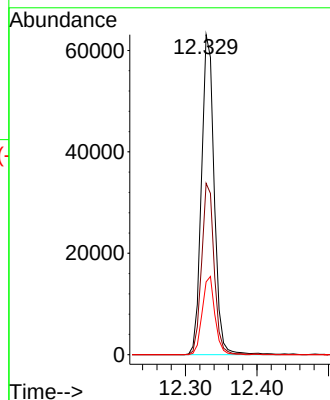
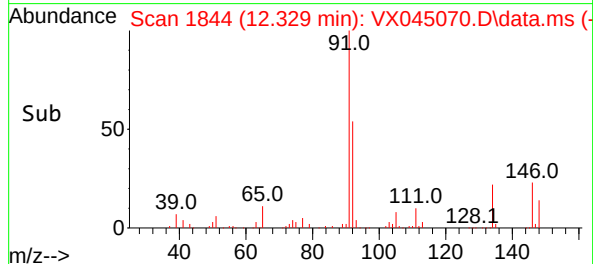
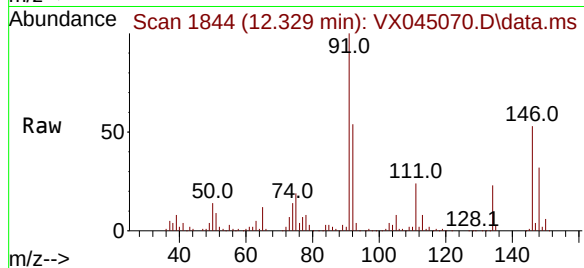
134 24.3 12.2 36.6

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

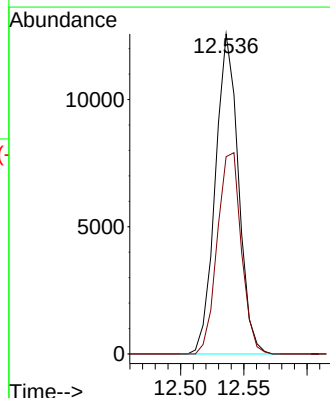
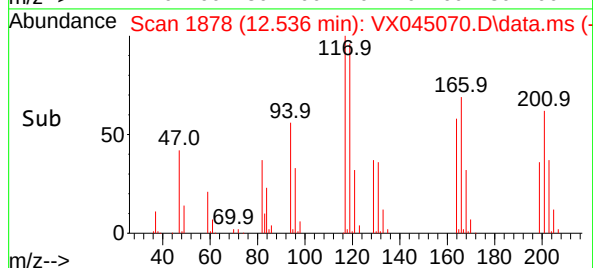
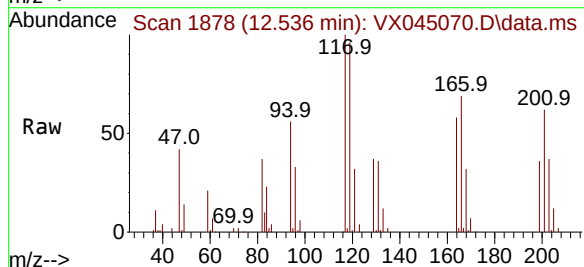
Acq: 28 Feb 2025 02:37

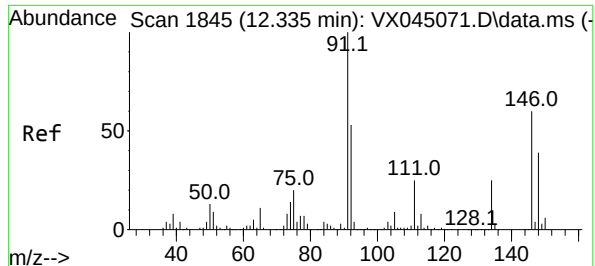
Tgt Ion:117 Resp: 15919

Ion Ratio Lower Upper

117 100

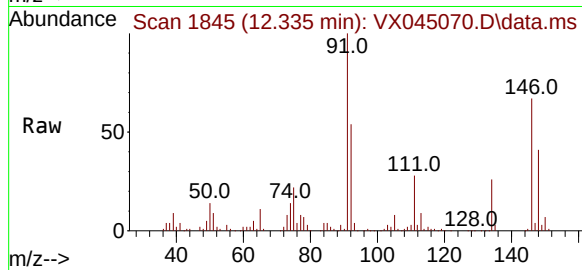
201 65.6 31.9 95.9





#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

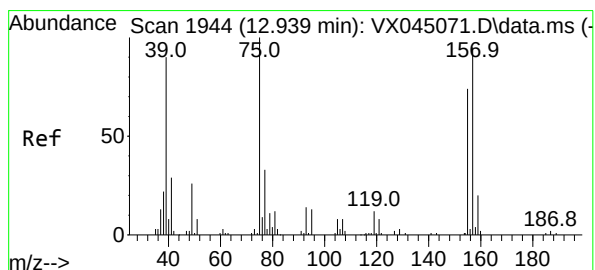
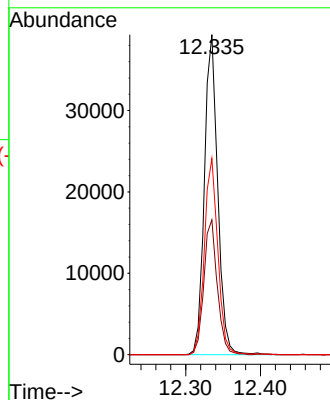
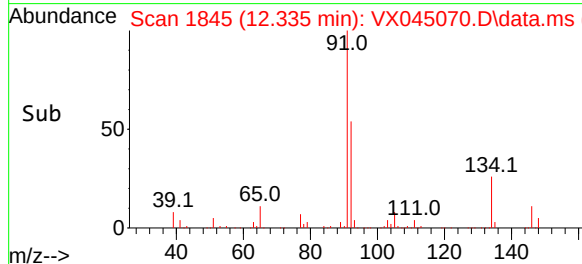
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



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

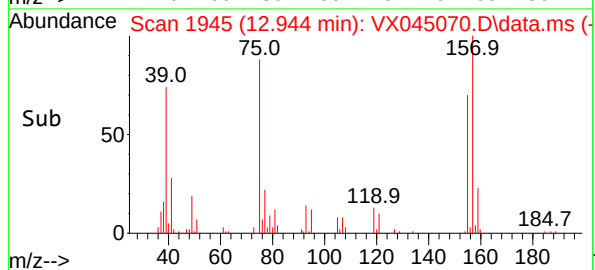
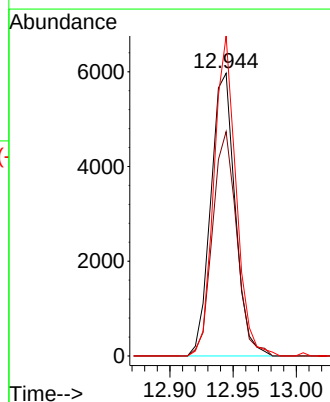
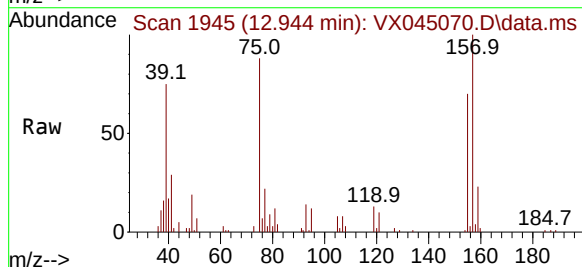
Manual Integrations
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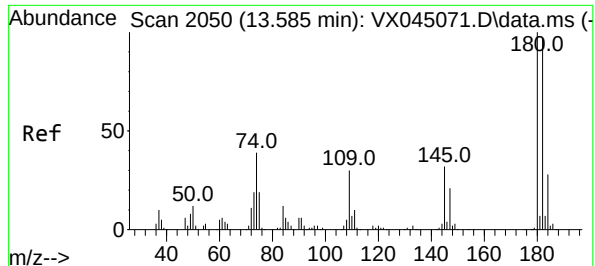
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 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

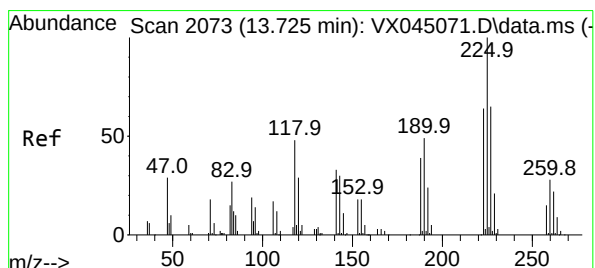
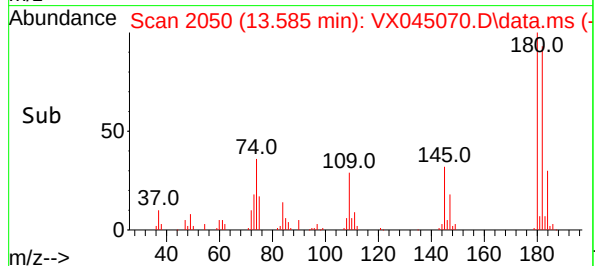
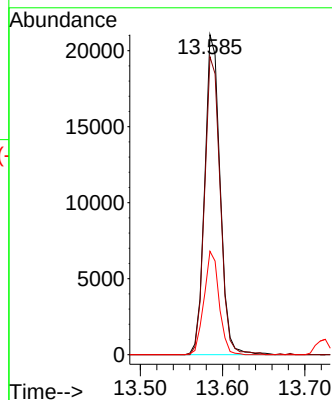
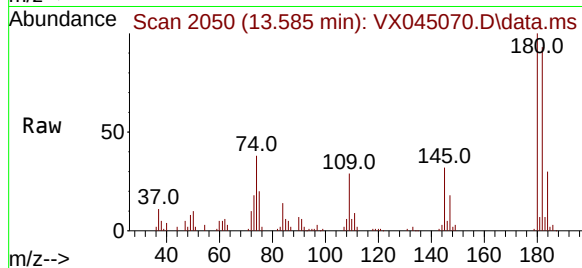
Tgt Ion:180	Resp:	27424
Ion Ratio	Lower	Upper
180	100	
182	93.9	47.3 141.9
145	31.5	16.3 48.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#94

Hexachlorobutadiene

Concen: 19.616 ug/l

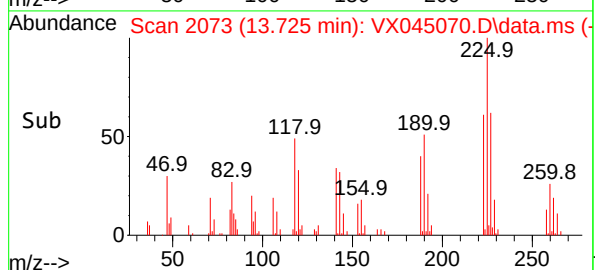
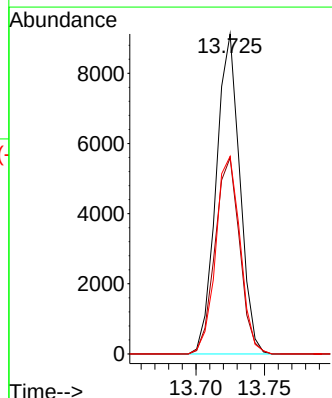
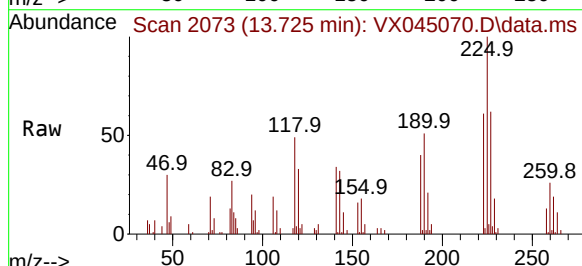
RT: 13.725 min Scan# 2073

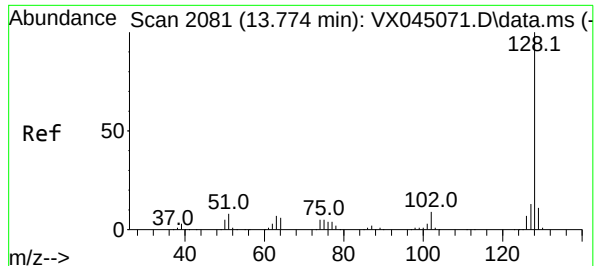
Delta R.T. -0.000 min

Lab File: VX045070.D

Acq: 28 Feb 2025 02:37

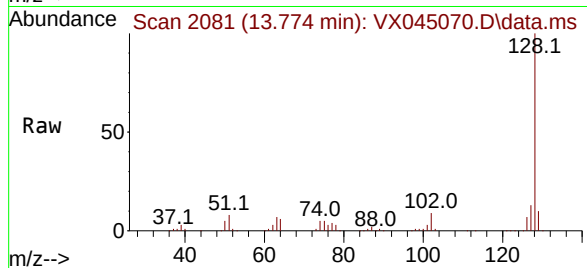
Tgt Ion:225	Resp:	10934
Ion Ratio	Lower	Upper
225	100	
223	63.7	31.9 95.7
227	63.7	31.4 94.0





#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

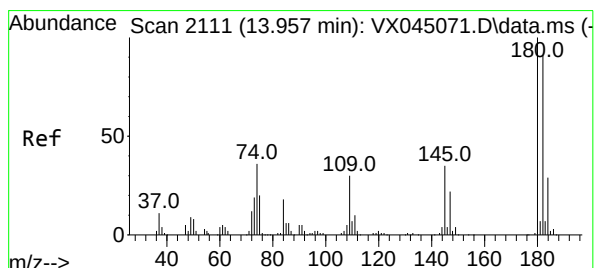
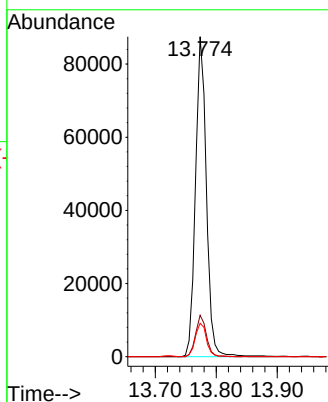
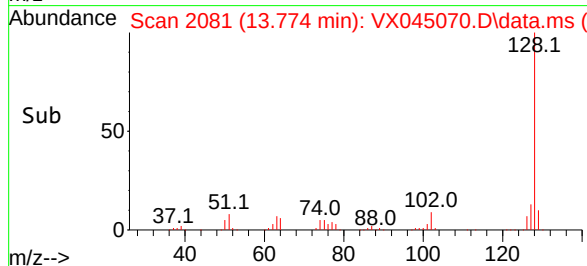
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



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

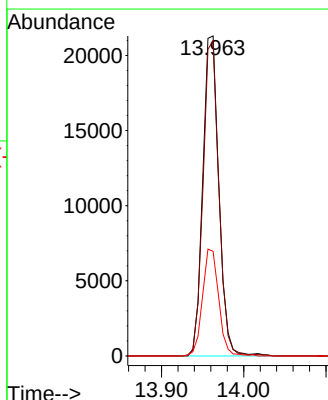
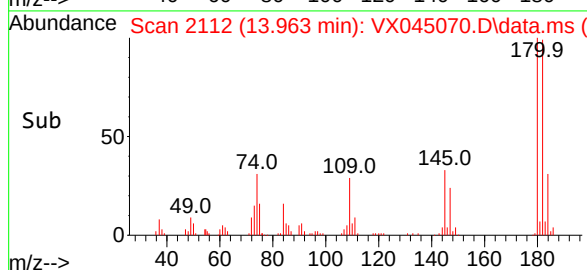
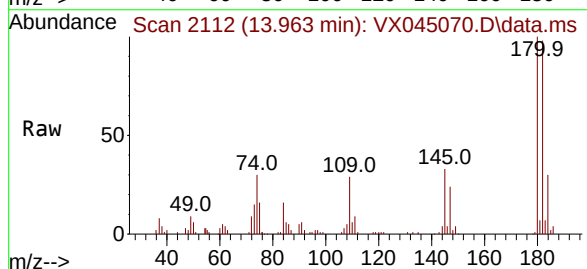
Manual Integrations
APPROVED

Reviewed By :John Carlone 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

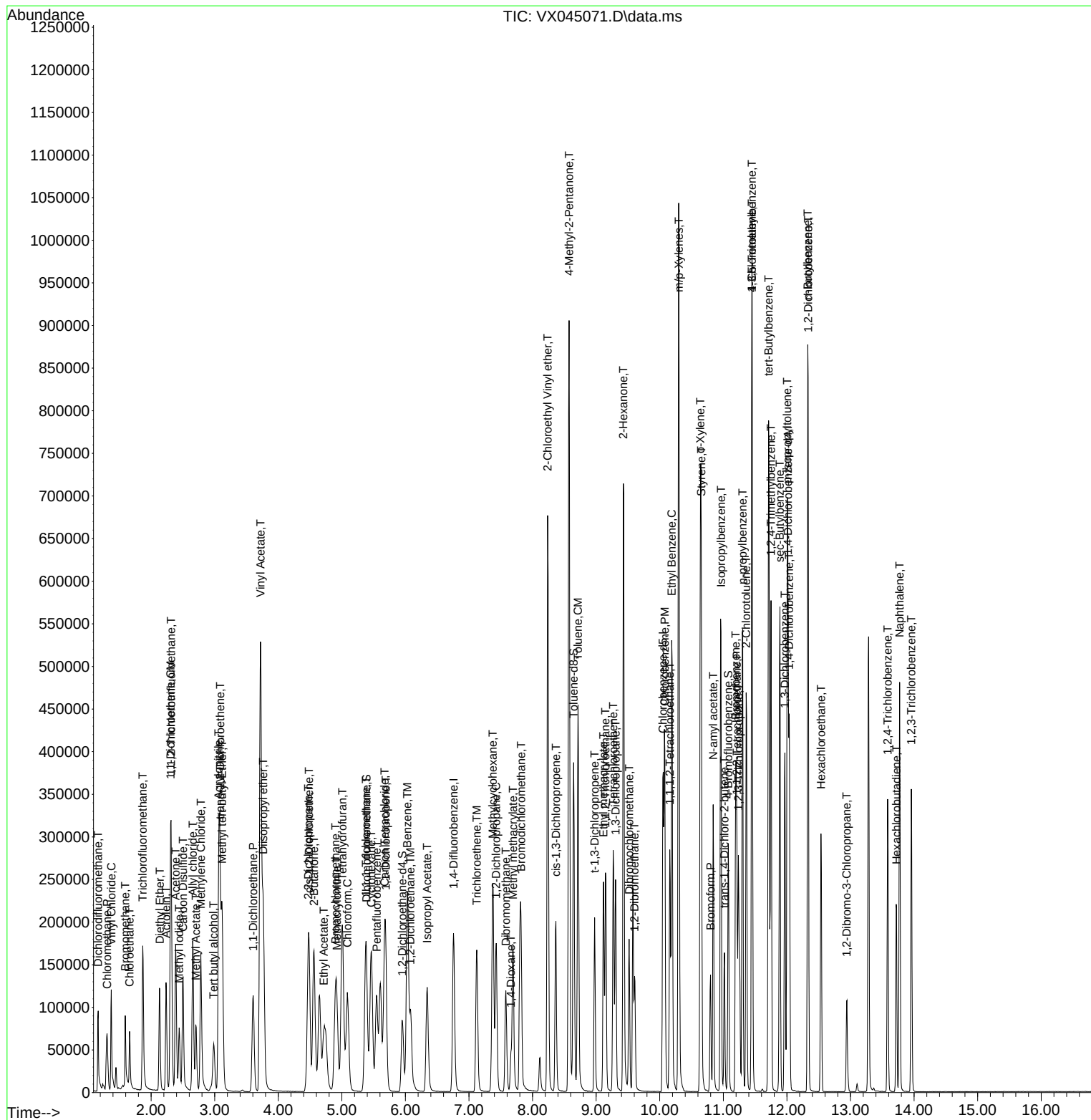
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

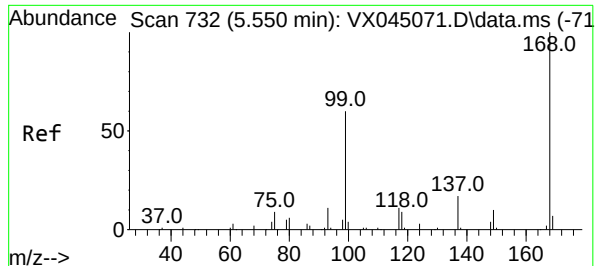
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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





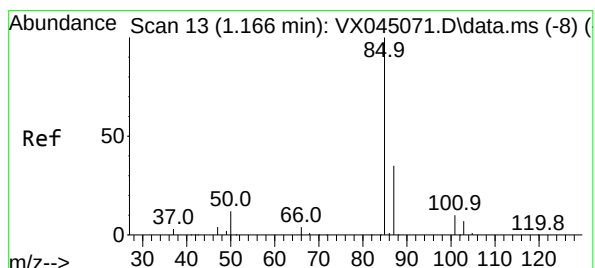
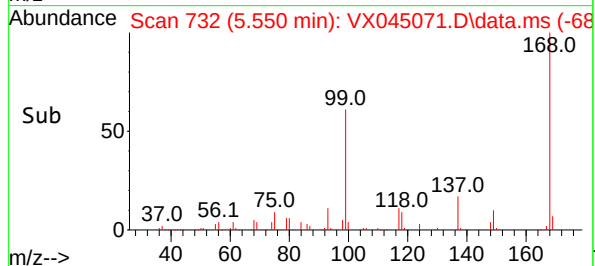
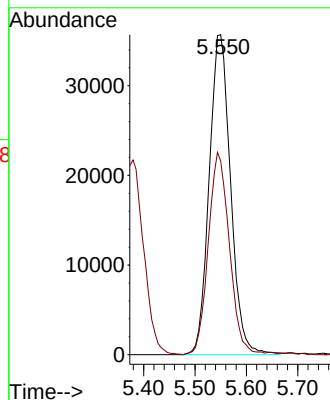
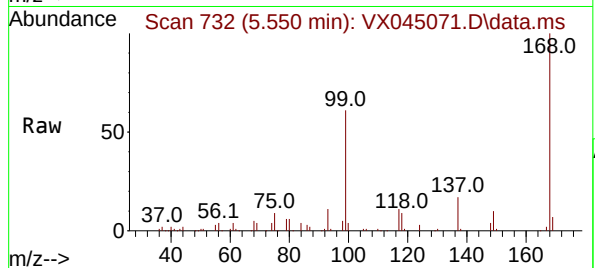
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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

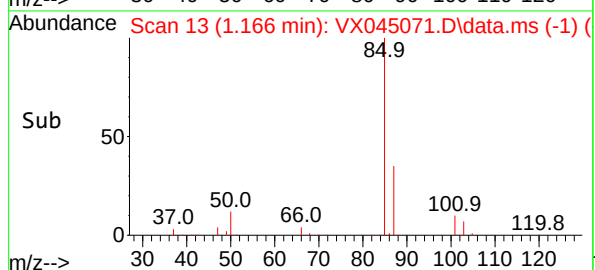
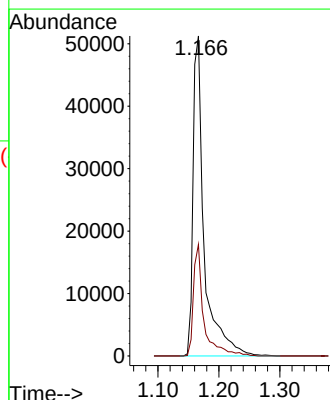
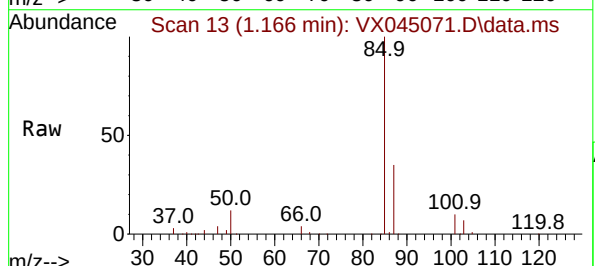
Manual Integrations
APPROVED

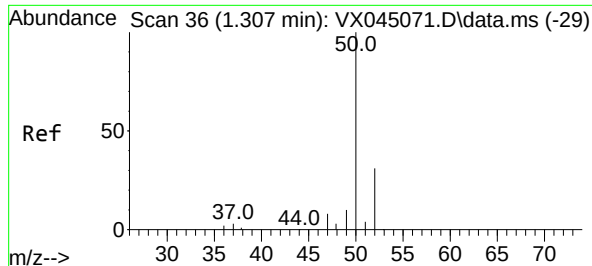
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





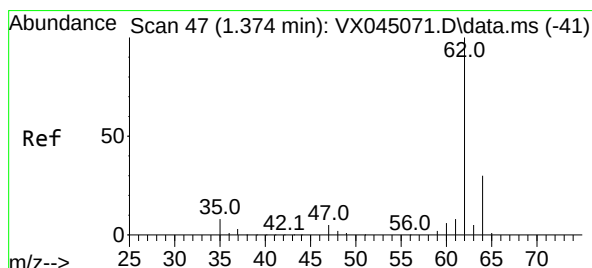
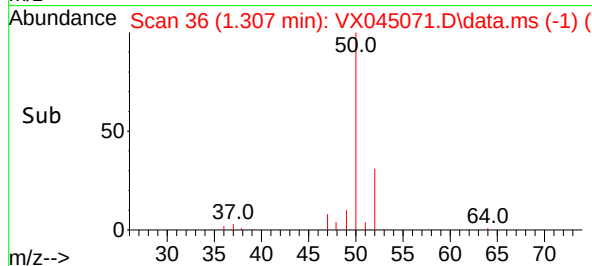
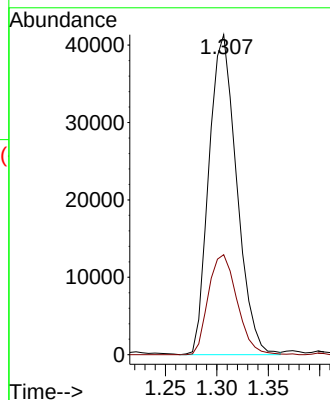
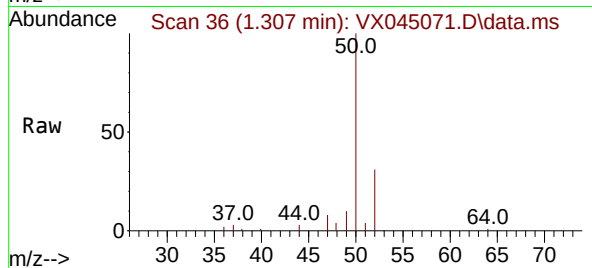
#3
Chloromethane
Concen: 44.894 ug/l
RT: 1.307 min Scan# 30
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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

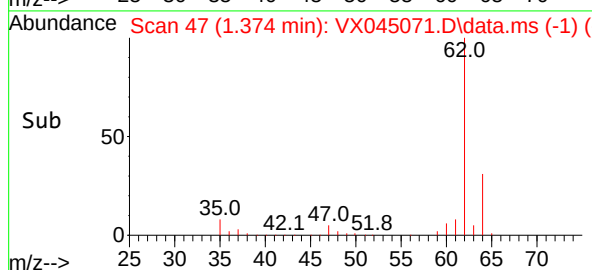
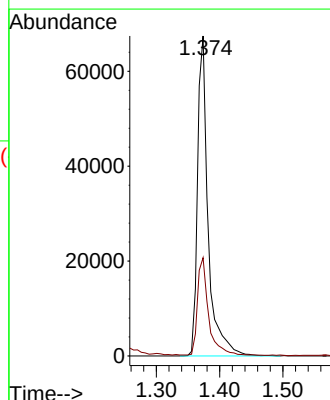
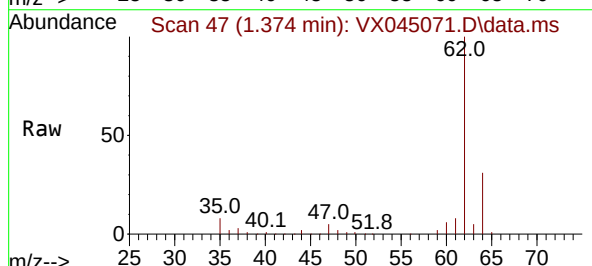
Manual Integrations
APPROVED

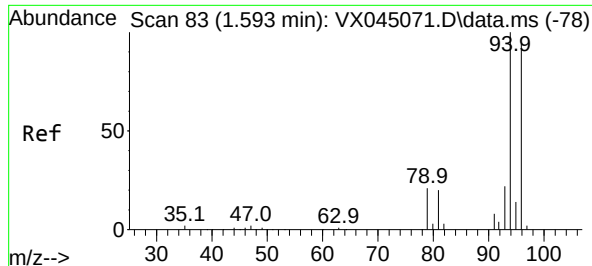
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

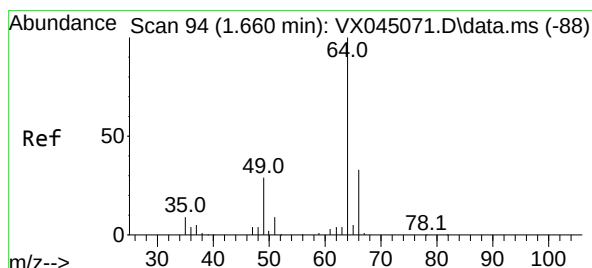
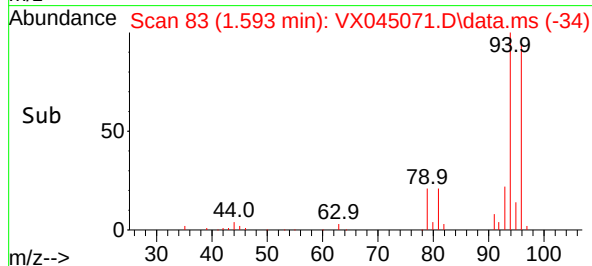
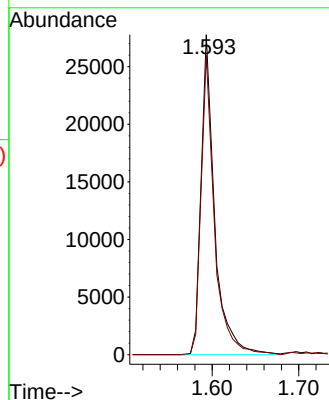
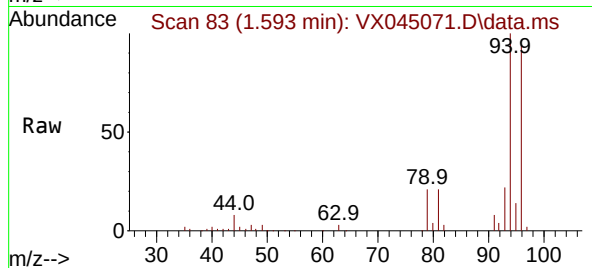
96 93.7 75.0 112.4

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

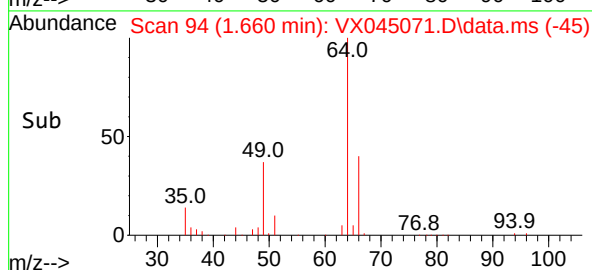
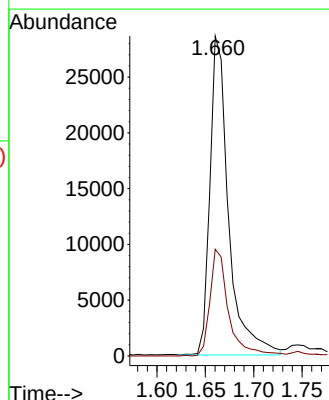
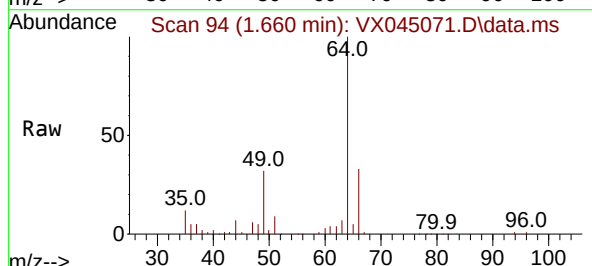
Acq: 28 Feb 2025 03:00

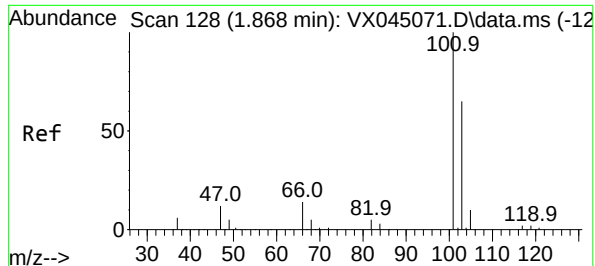
Tgt Ion: 64 Resp: 38461

Ion Ratio Lower Upper

64 100

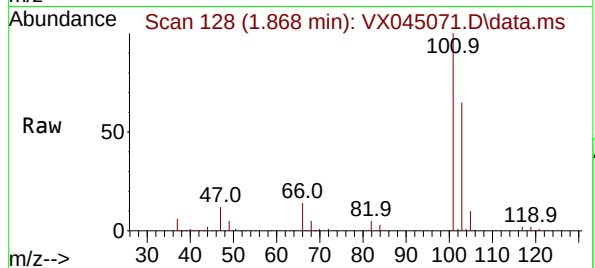
66 33.4 26.7 40.1





#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

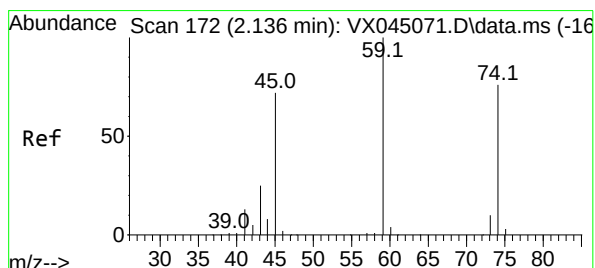
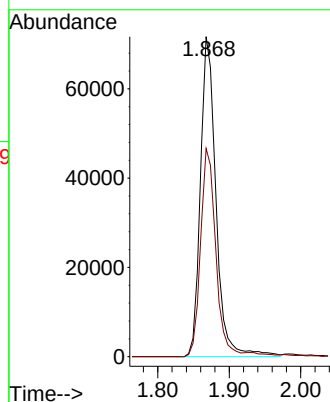
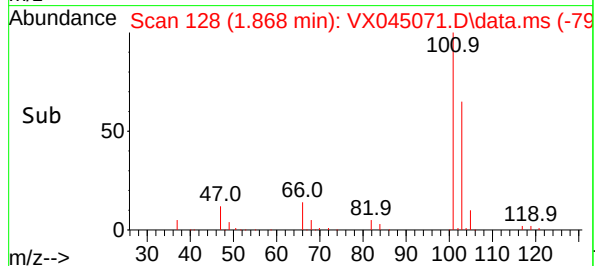
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



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

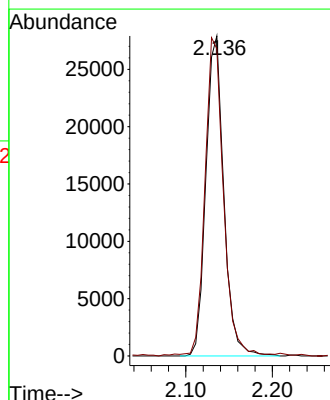
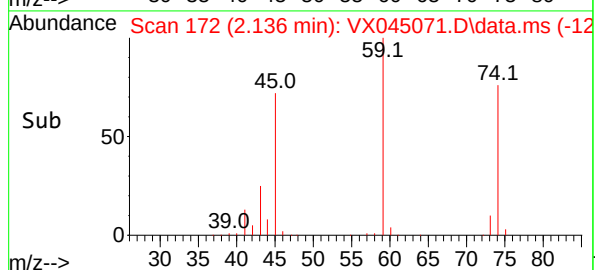
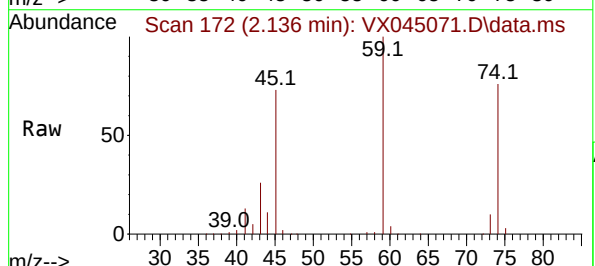
Manual Integrations
APPROVED

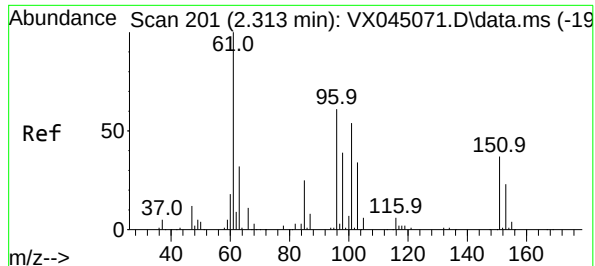
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

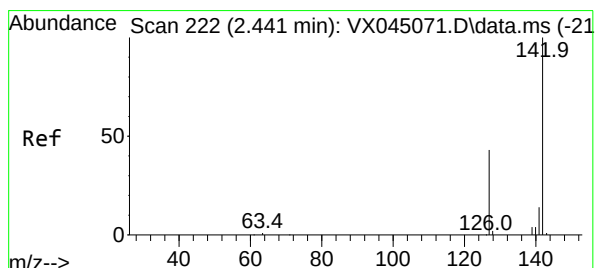
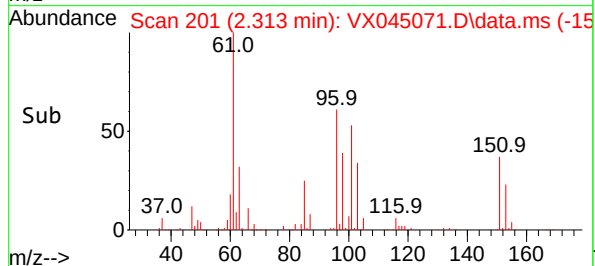
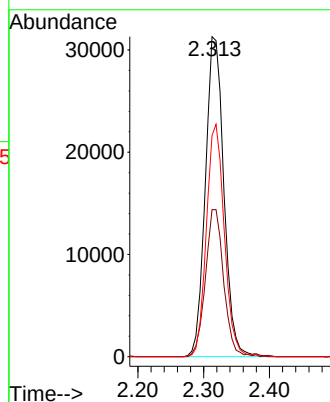
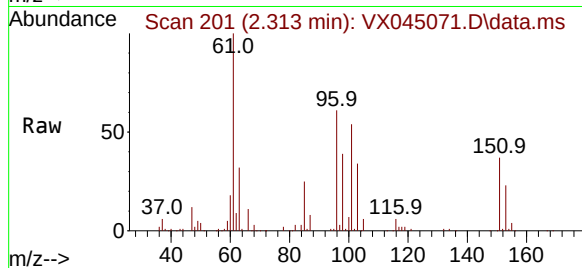
Tgt Ion	101	Resp:	6131
Ion	Ratio	Lower	Upper
101	100		
85	45.3	36.2	54.4
151	70.5	56.4	84.6

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

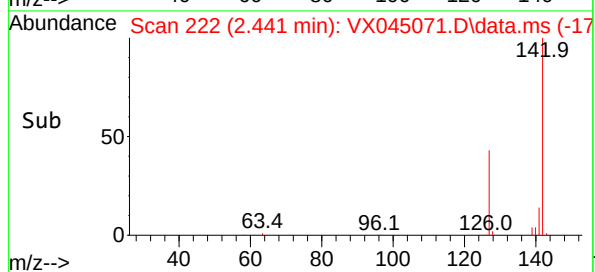
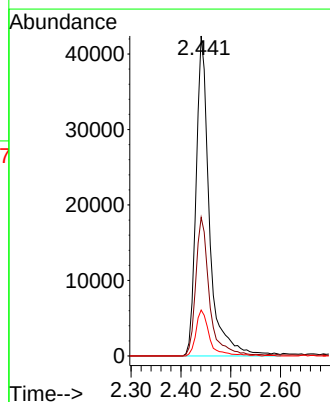
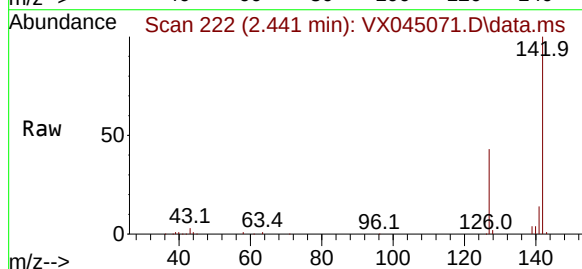
RT: 2.441 min Scan# 222

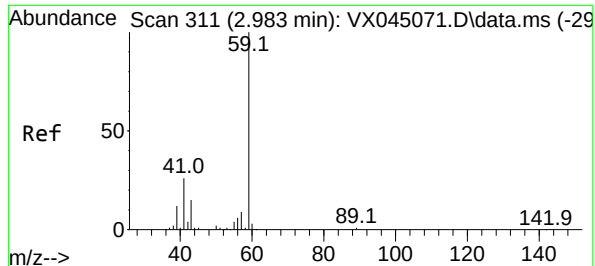
Delta R.T. 0.000 min

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

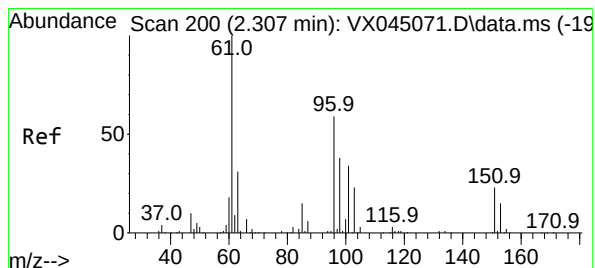
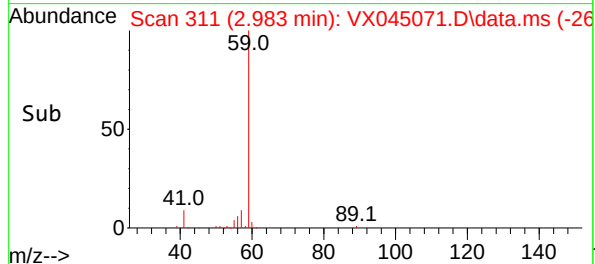
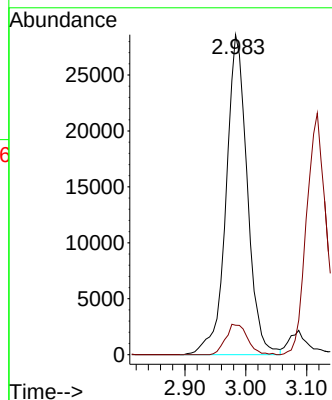
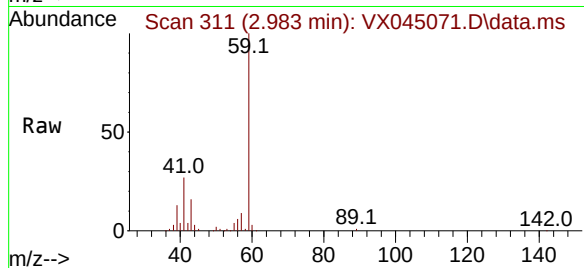
57 9.8 7.8 11.8

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

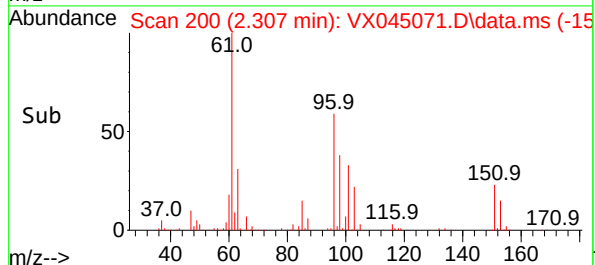
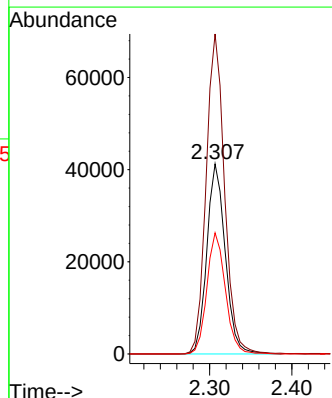
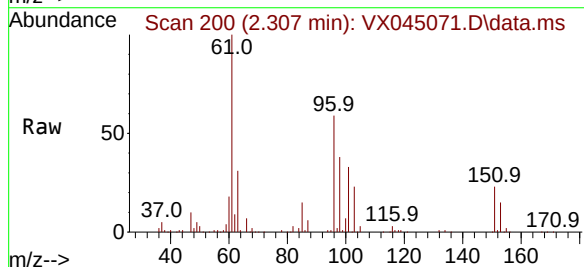
Tgt Ion: 96 Resp: 64327

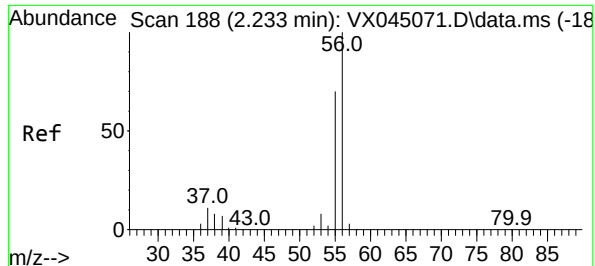
Ion Ratio Lower Upper

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

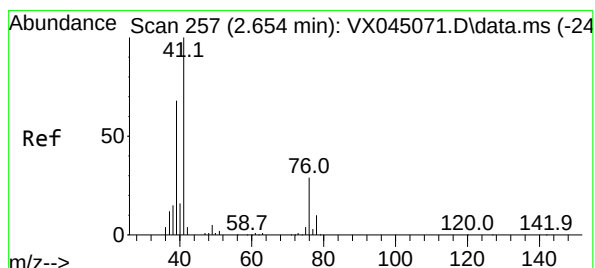
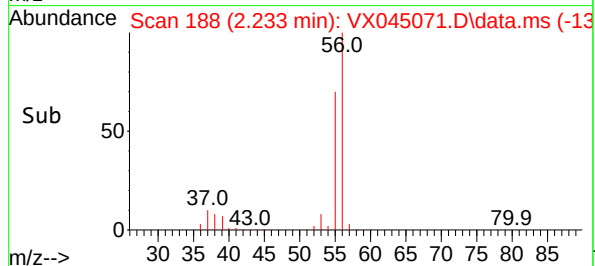
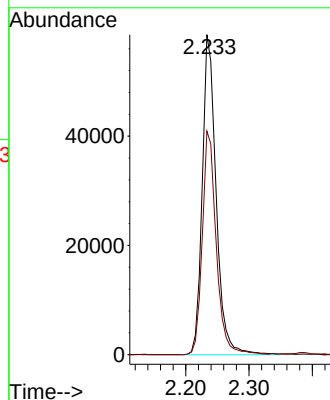
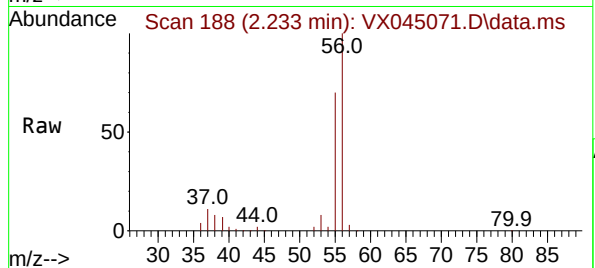
55 70.3 56.2 84.4

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

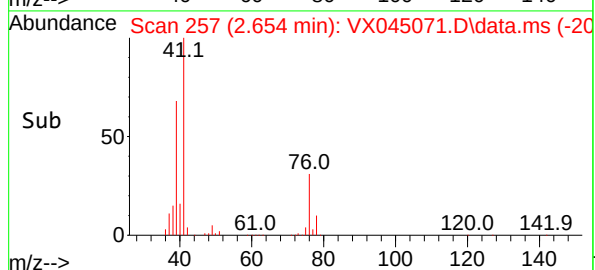
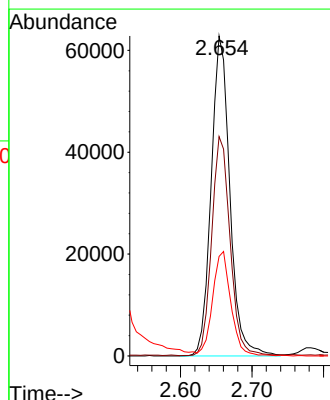
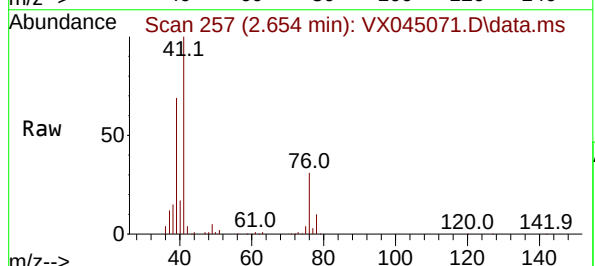
Tgt Ion: 41 Resp: 114313

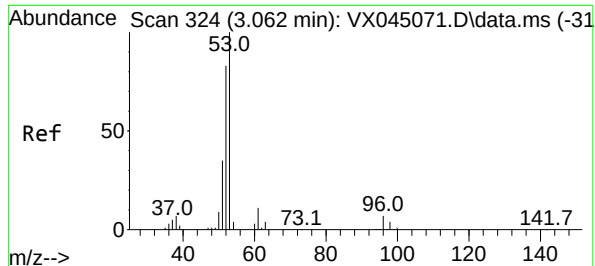
Ion Ratio Lower Upper

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

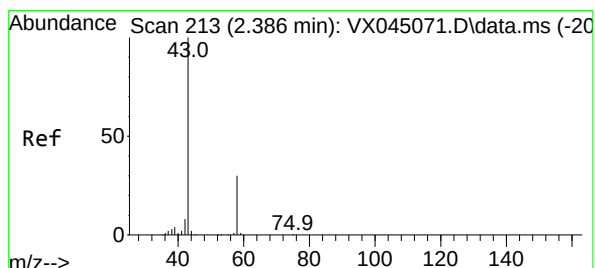
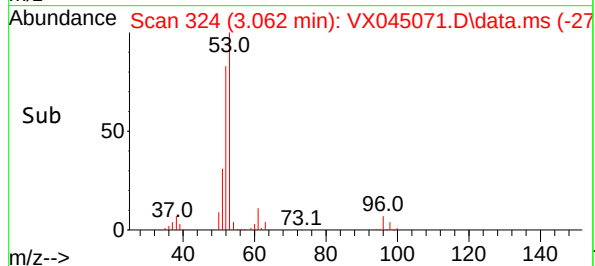
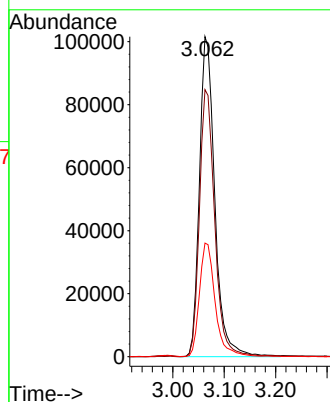
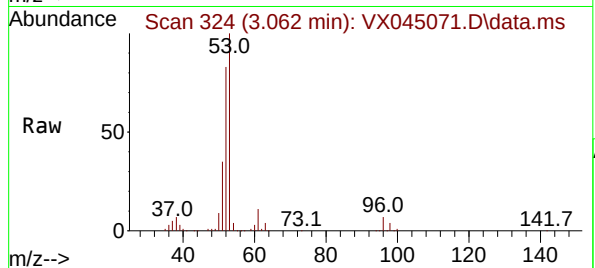
51 36.2 29.0 43.4

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

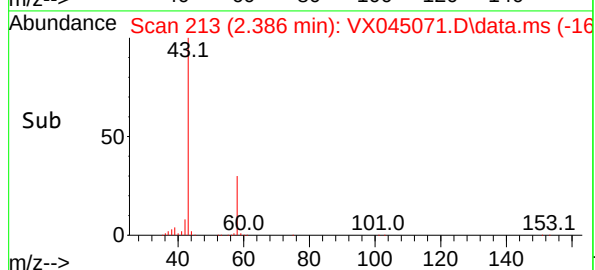
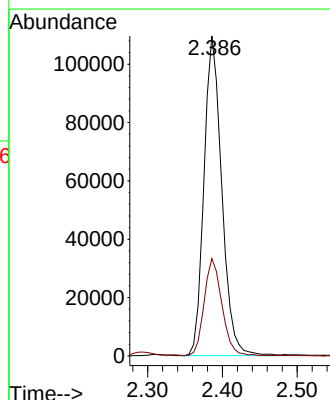
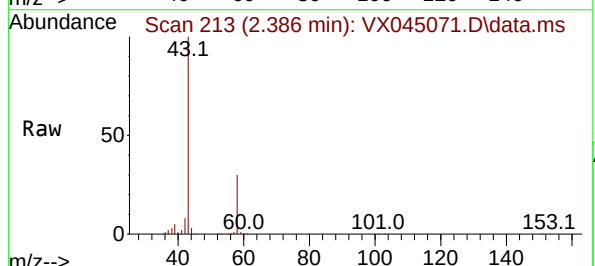
Acq: 28 Feb 2025 03:00

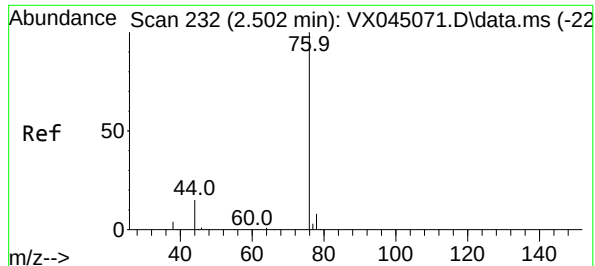
Tgt Ion: 43 Resp: 181429

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

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 17135

Ion Ratio Lower Upper

76 100

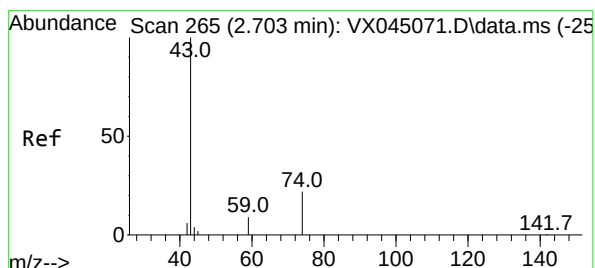
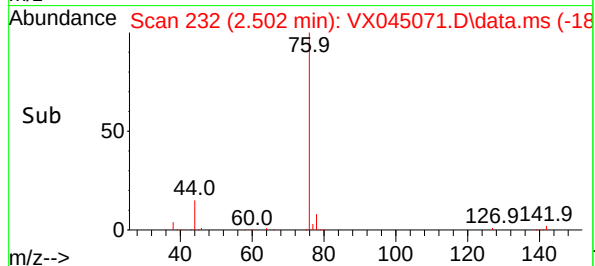
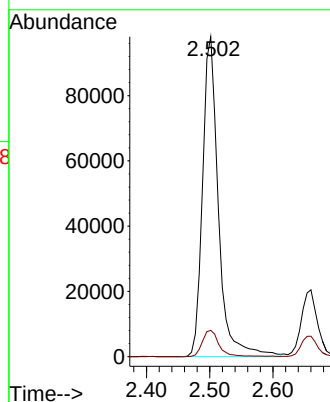
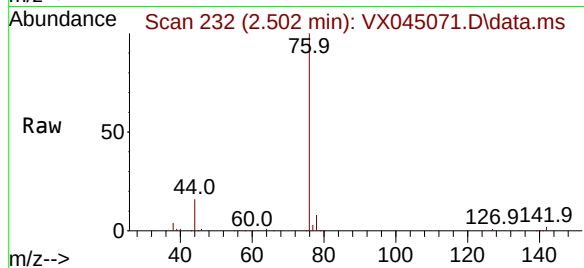
78 8.2 6.6 9.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#18

Methyl Acetate

Concen: 47.359 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX045071.D

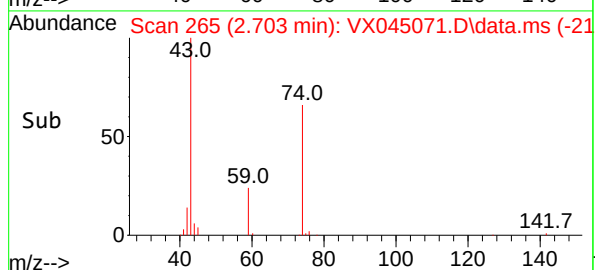
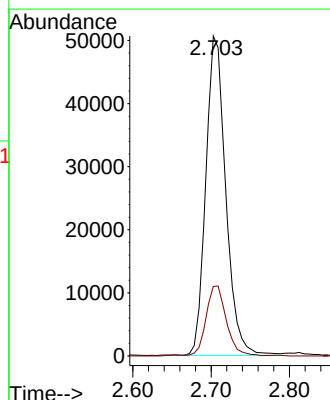
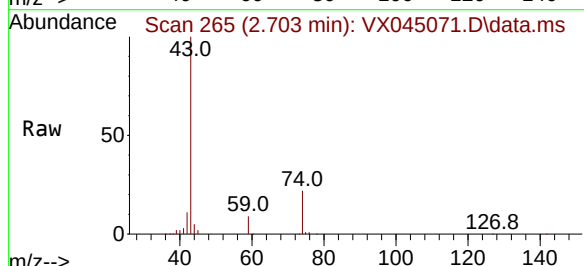
Acq: 28 Feb 2025 03:00

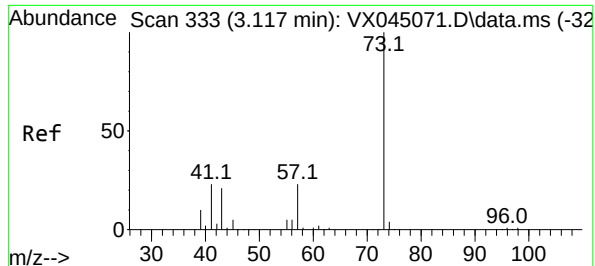
Tgt Ion: 43 Resp: 89508

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# 311

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

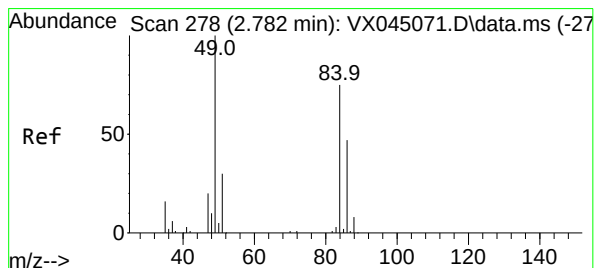
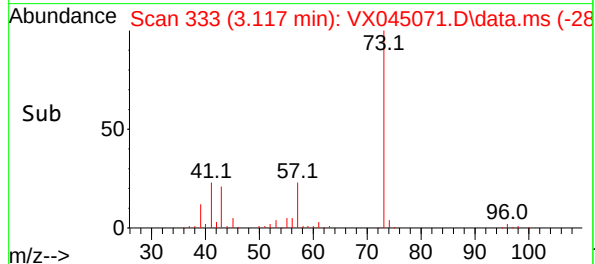
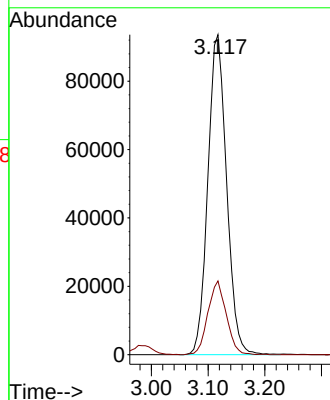
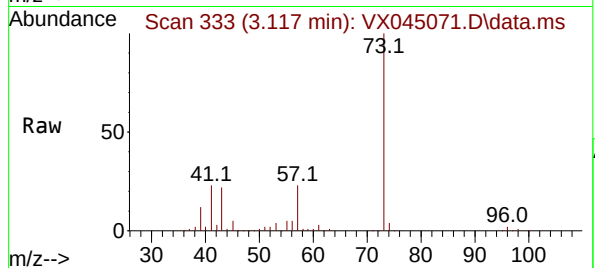
57 23.1 18.5 27.7

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

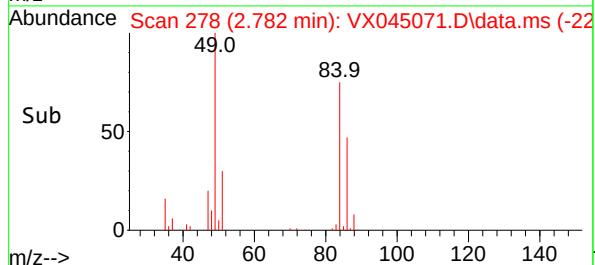
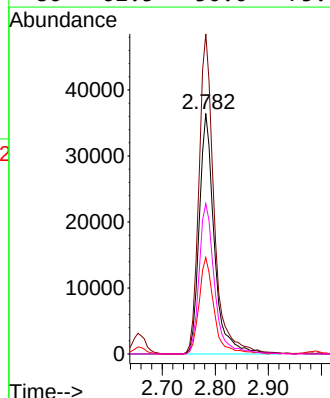
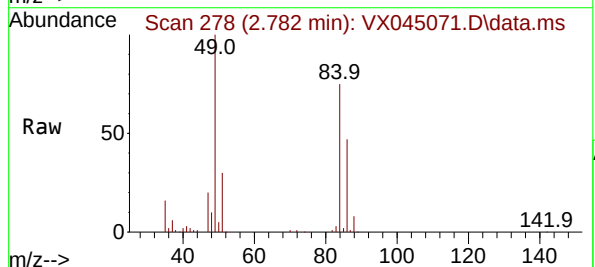
Ion Ratio Lower Upper

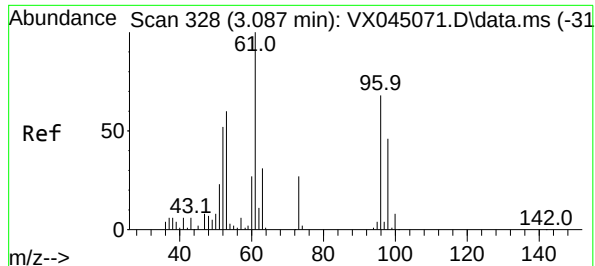
84 100

49 133.1 106.5 159.7

51 40.1 32.1 48.1

86 62.5 50.0 75.0





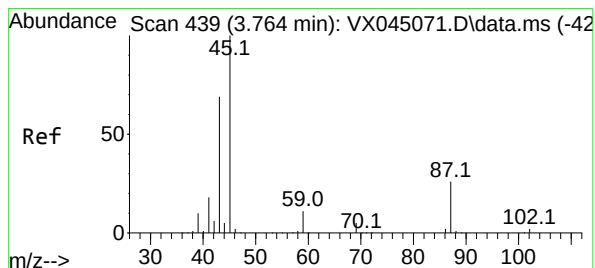
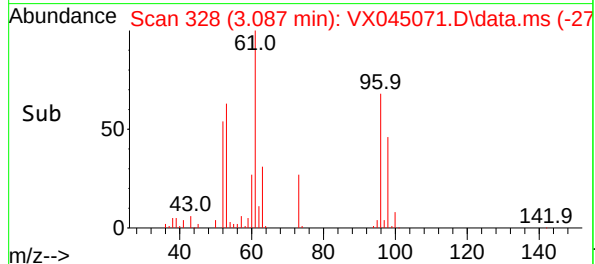
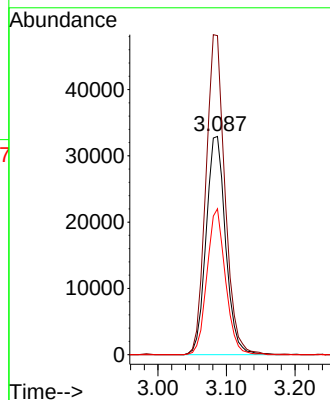
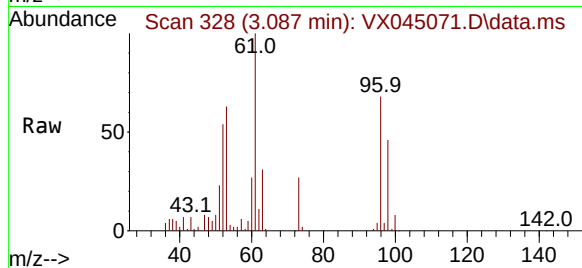
#21
trans-1,2-Dichloroethene
Concen: 49.832 ug/l
RT: 3.087 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

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

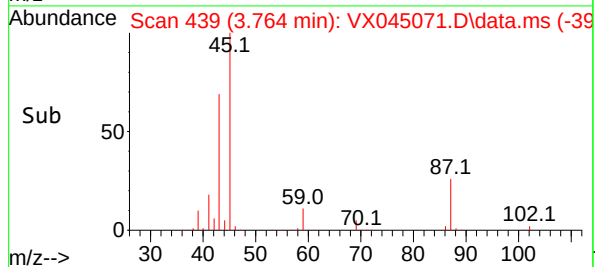
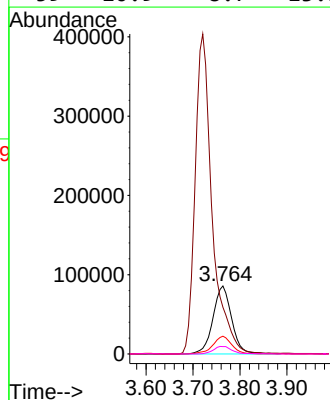
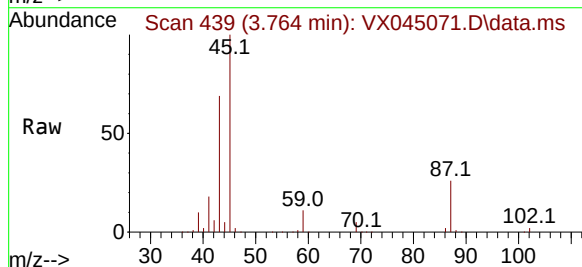
Manual Integrations
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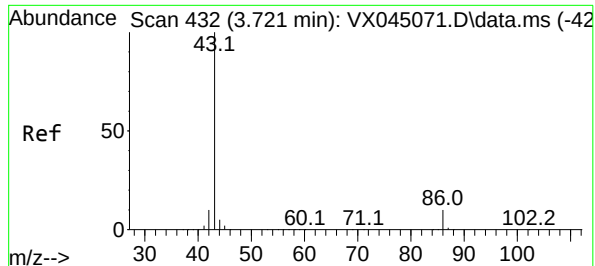
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





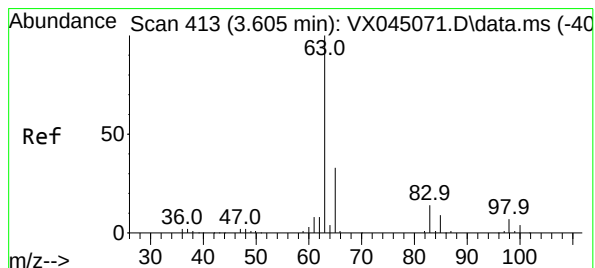
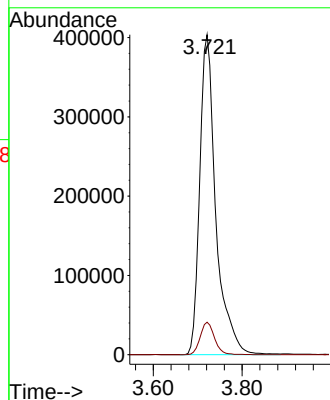
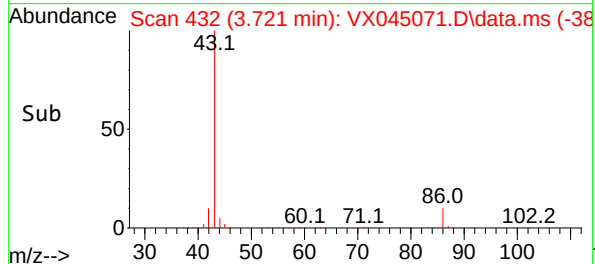
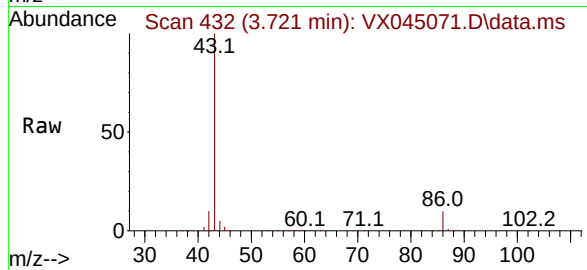
#23
Vinyl Acetate
Concen: 271.773 ug/l
RT: 3.721 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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

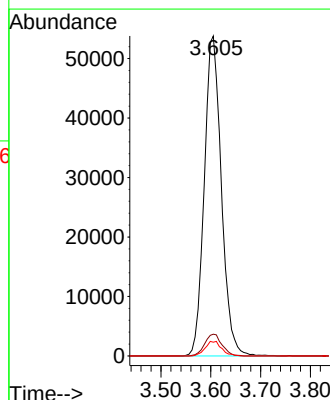
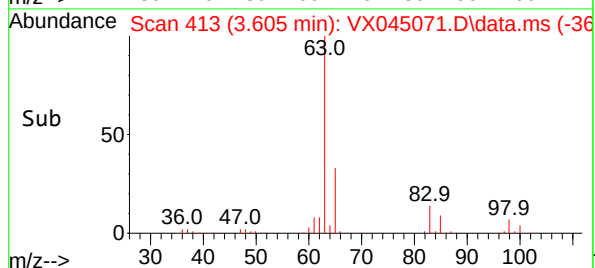
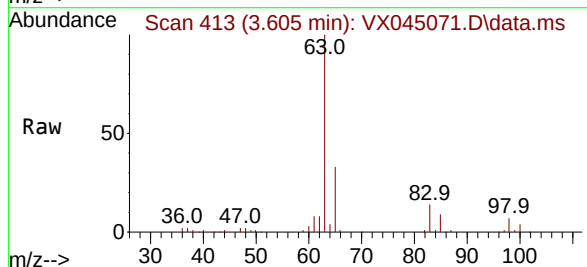
Manual Integrations
APPROVED

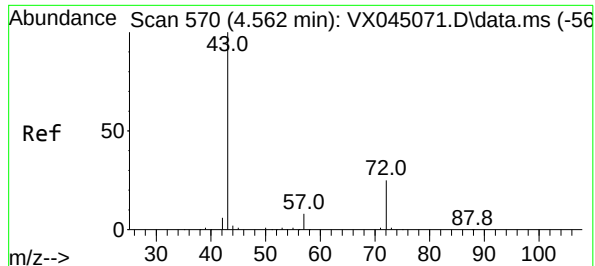
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





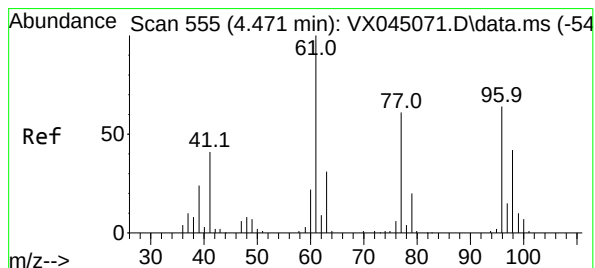
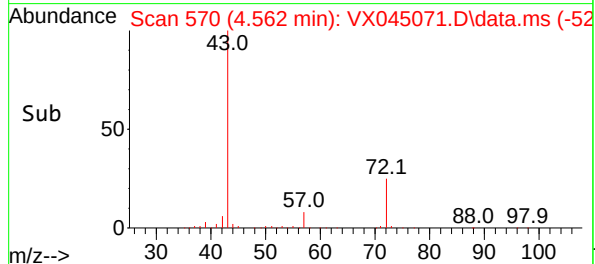
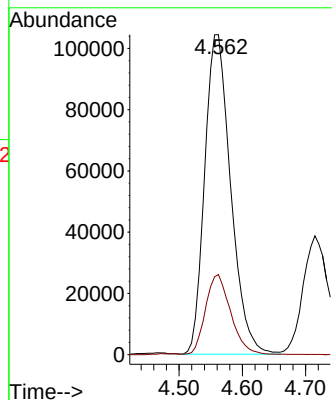
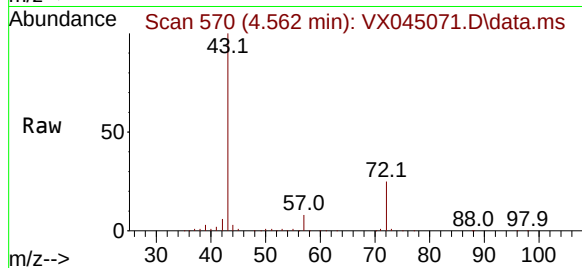
#25
2-Butanone
Concen: 295.330 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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

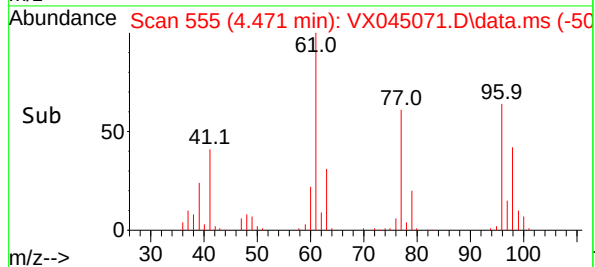
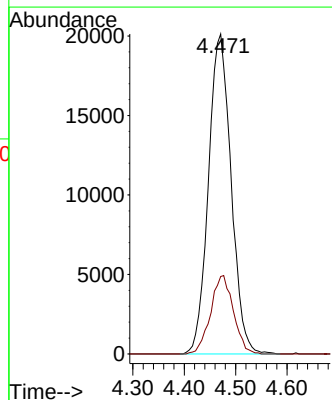
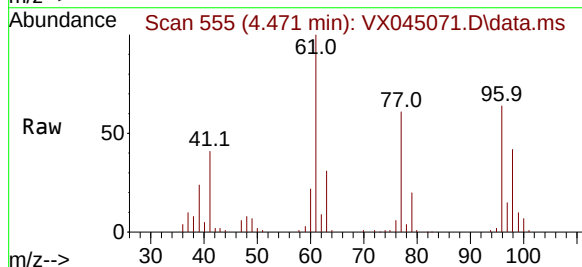
Manual Integrations
APPROVED

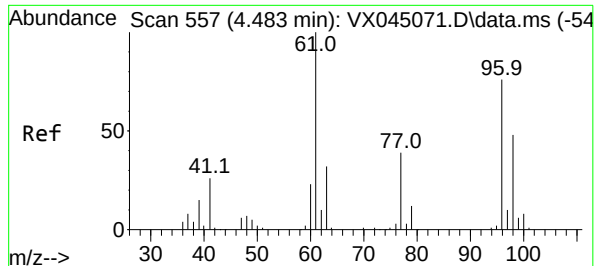
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

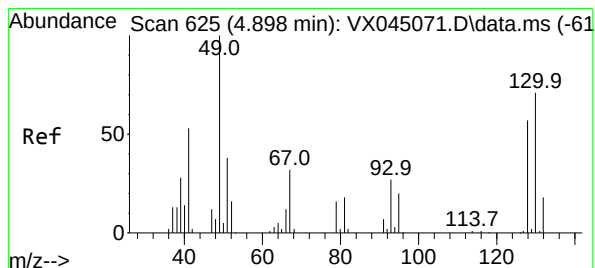
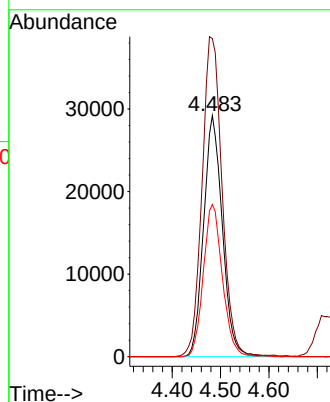
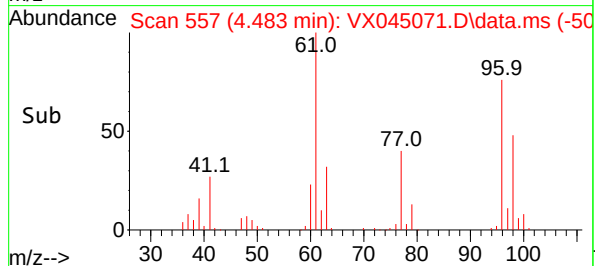
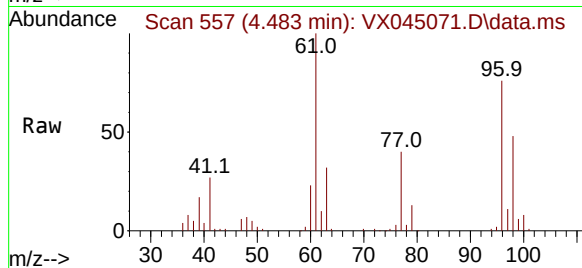
Tgt Ion:	96	Resp:	7865
Ion	Ratio	Lower	Upper
96	100		
61	141.6	0.0	283.2
98	64.0	0.0	128.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#28

Bromochloromethane

Concen: 50.643 ug/l

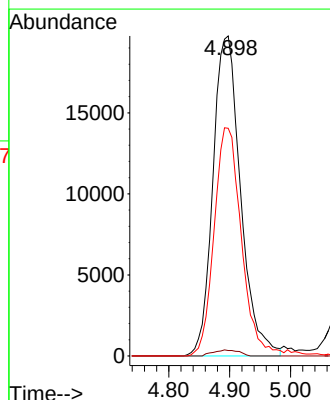
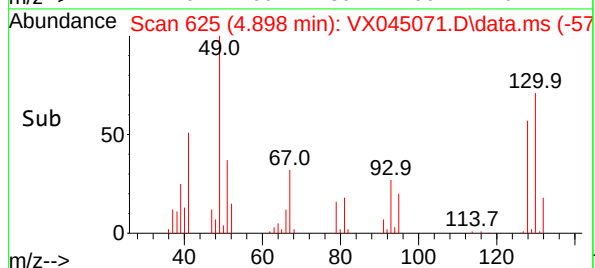
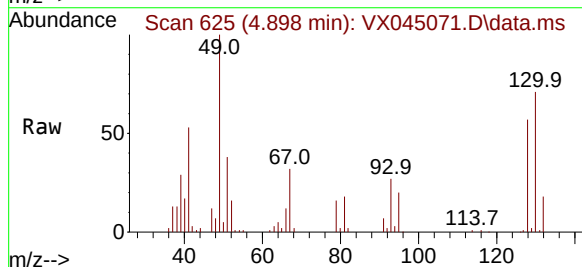
RT: 4.898 min Scan# 625

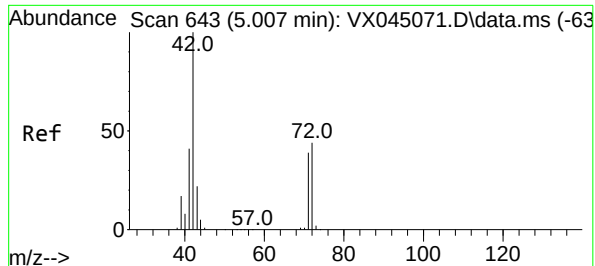
Delta R.T. 0.000 min

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

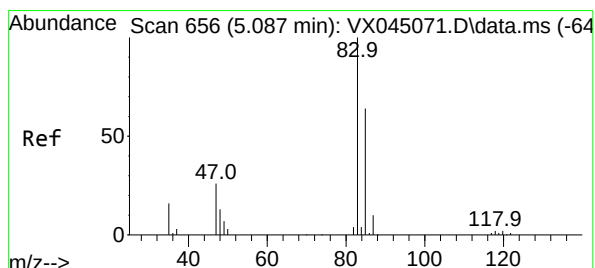
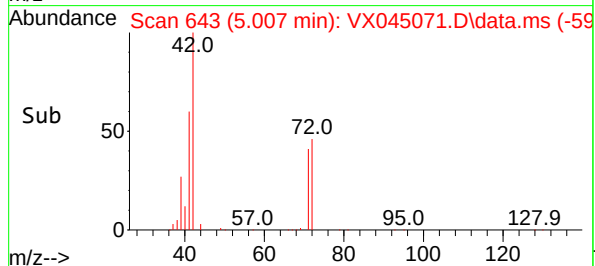
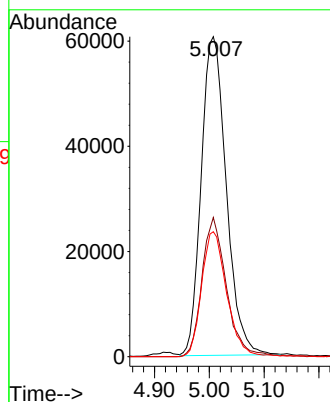
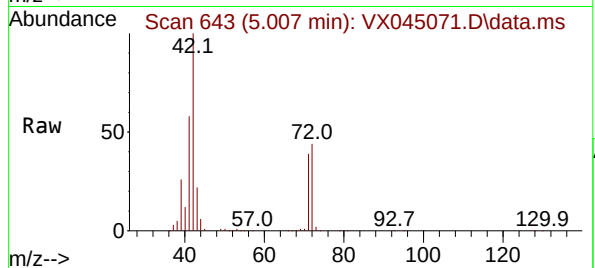
71 39.2 31.4 47.0

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

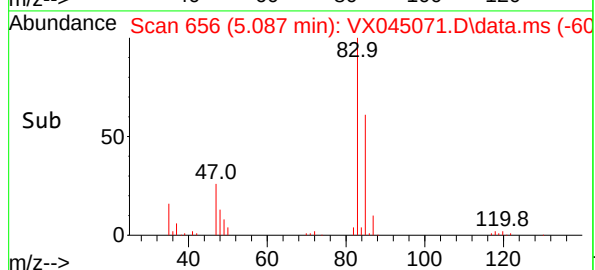
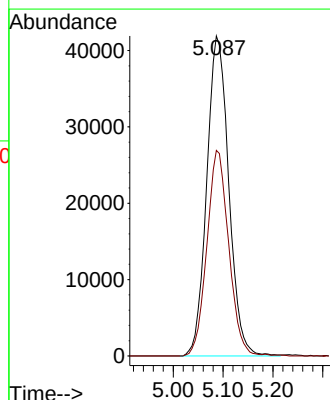
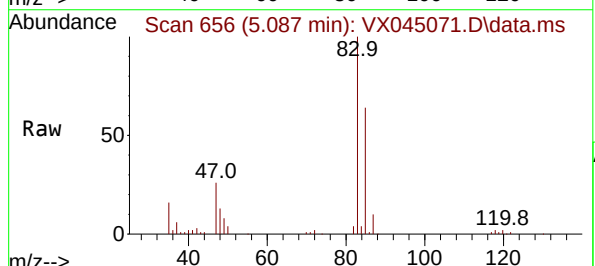
Acq: 28 Feb 2025 03:00

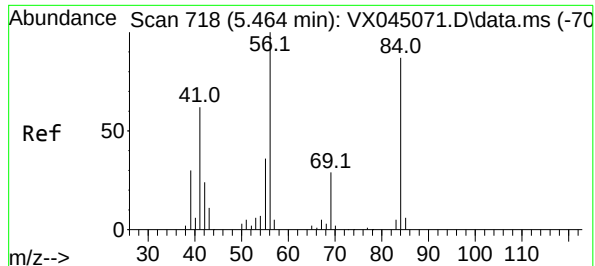
Tgt Ion: 83 Resp: 128581

Ion Ratio Lower Upper

83 100

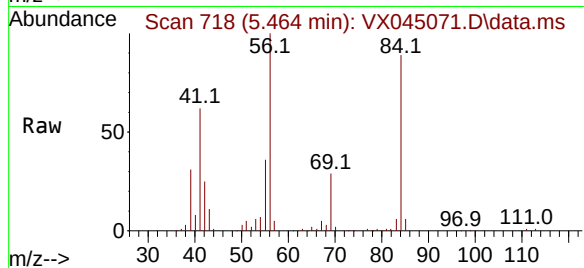
85 64.3 51.4 77.2





#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

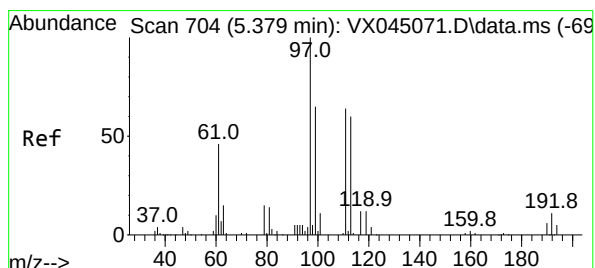
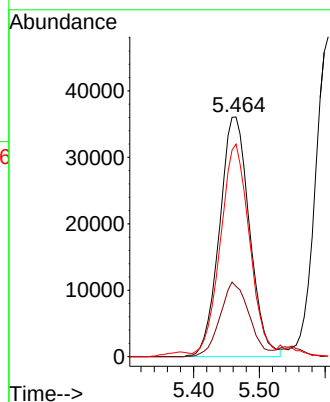
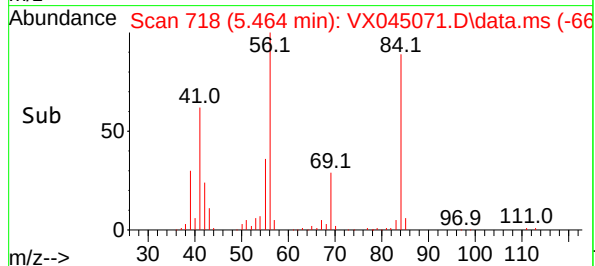
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



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

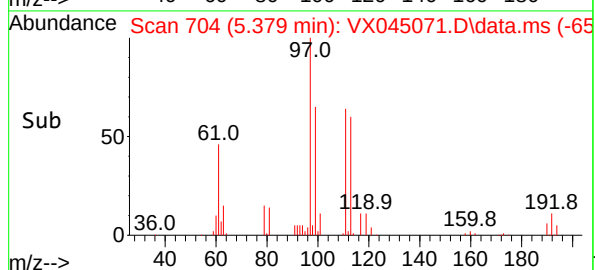
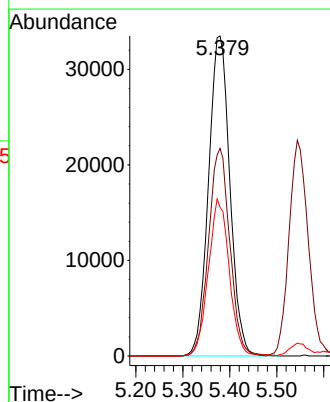
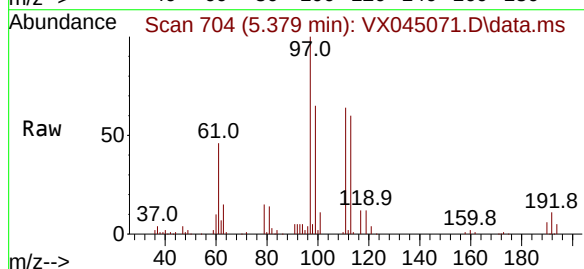
Manual Integrations
APPROVED

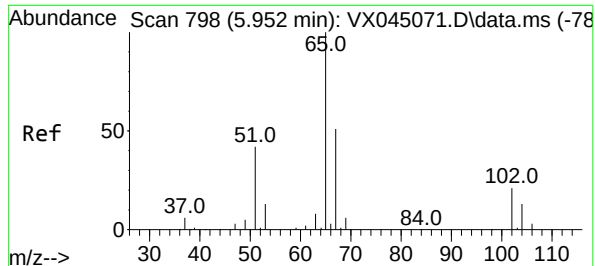
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

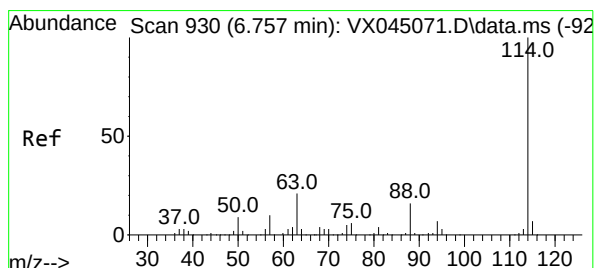
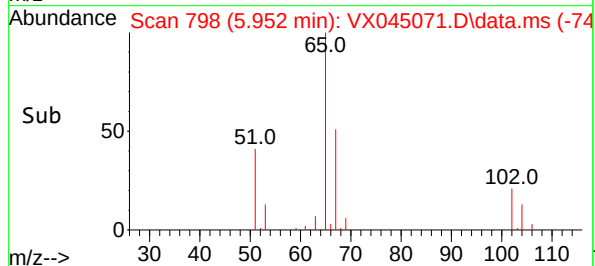
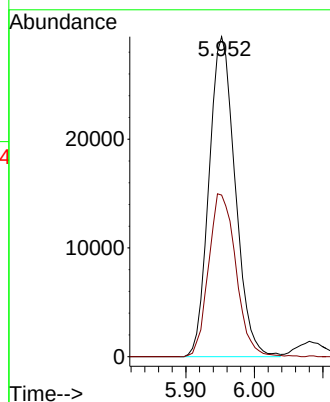
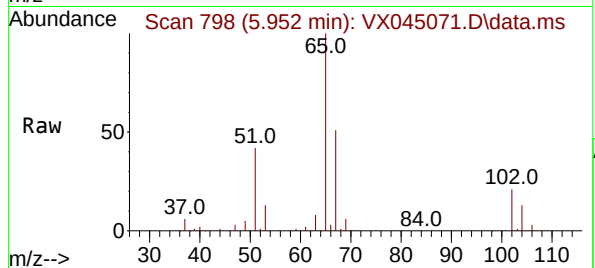
67 53.1 0.0 106.2

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

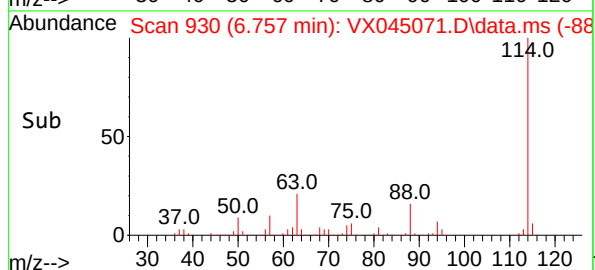
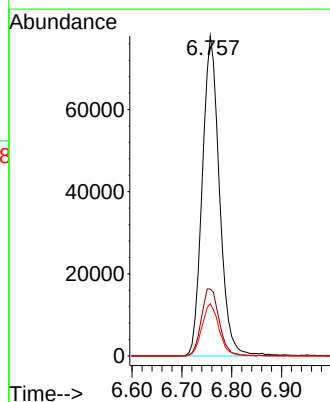
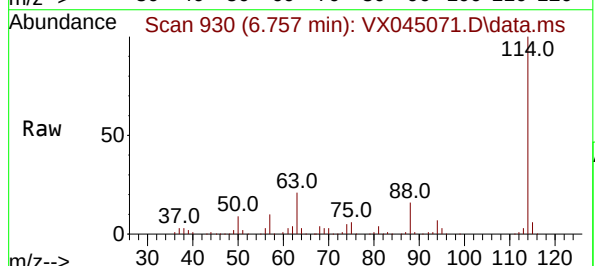
Tgt Ion:114 Resp: 186358

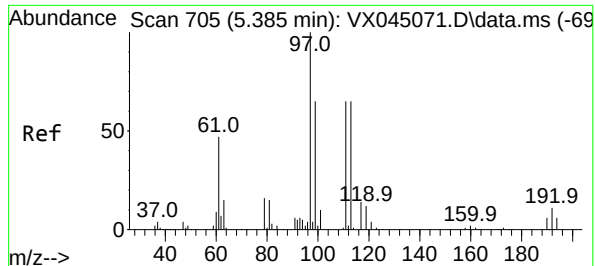
Ion Ratio Lower Upper

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

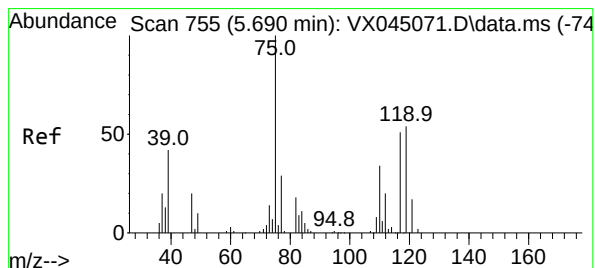
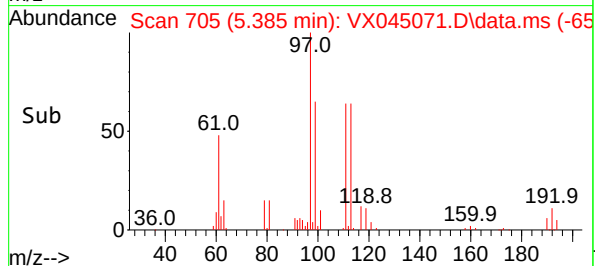
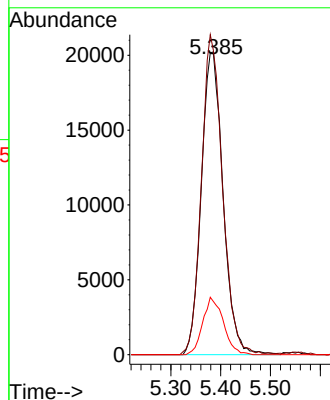
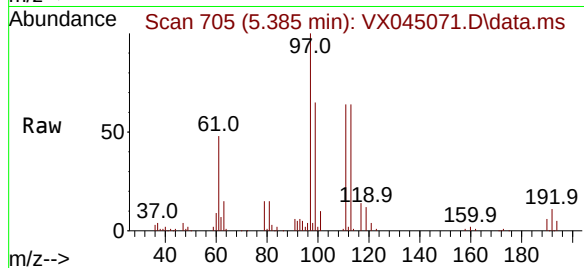
192 17.9 14.3 21.5

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

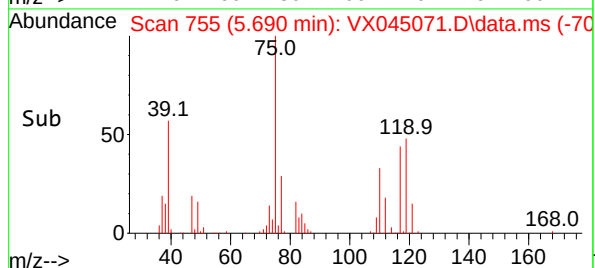
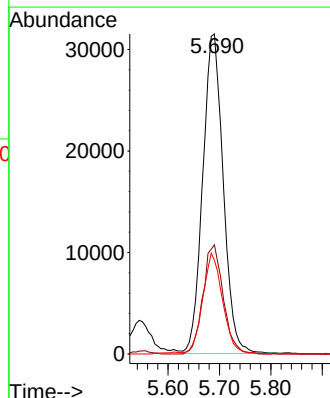
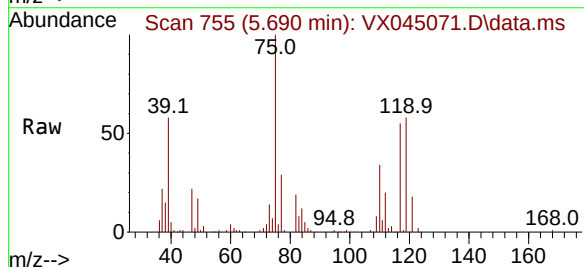
Tgt Ion: 75 Resp: 87338

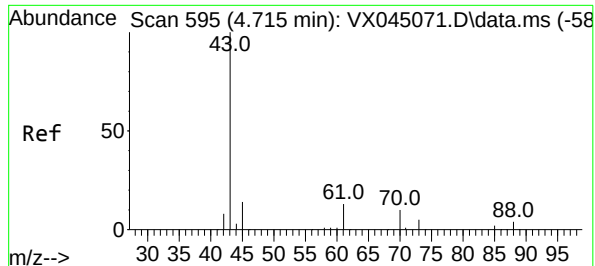
Ion Ratio Lower Upper

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

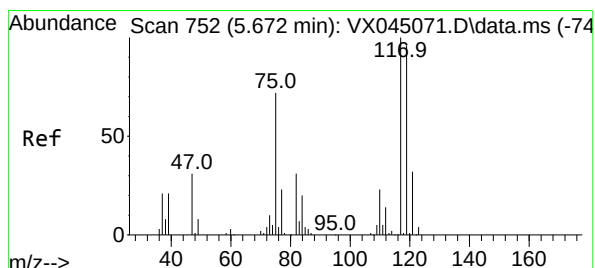
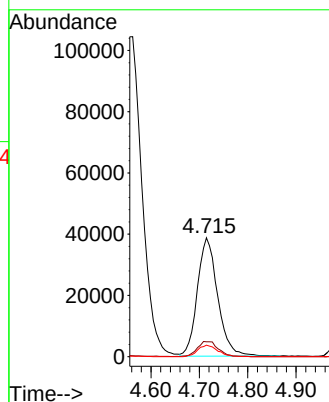
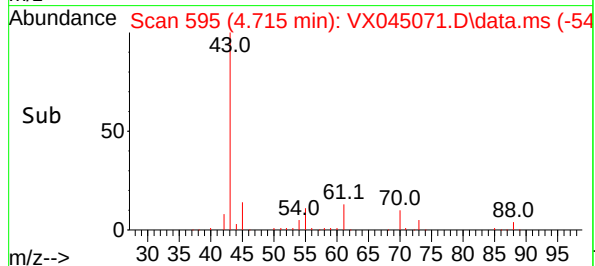
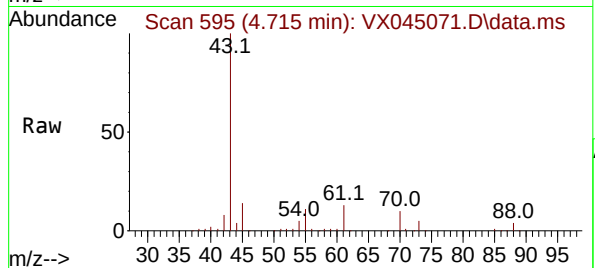
70 9.6 7.7 11.5

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

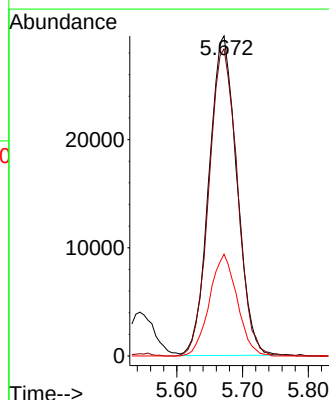
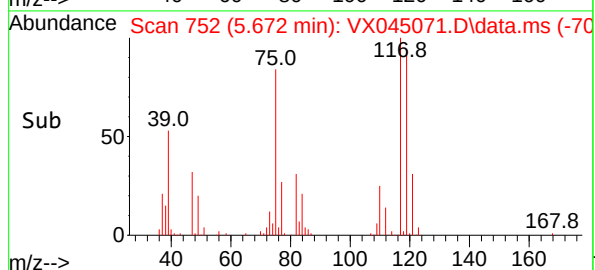
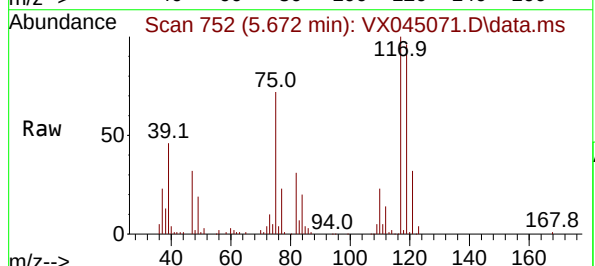
Tgt Ion:117 Resp: 87123

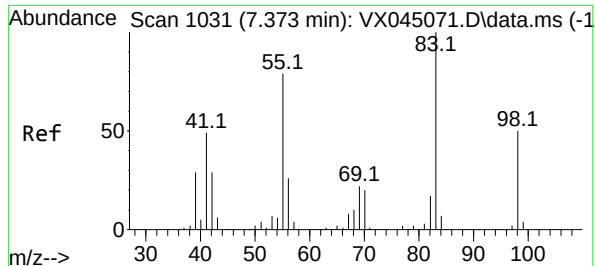
Ion Ratio Lower Upper

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

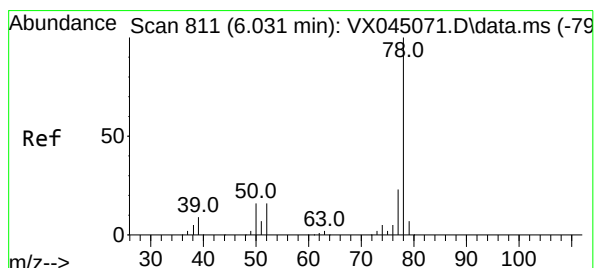
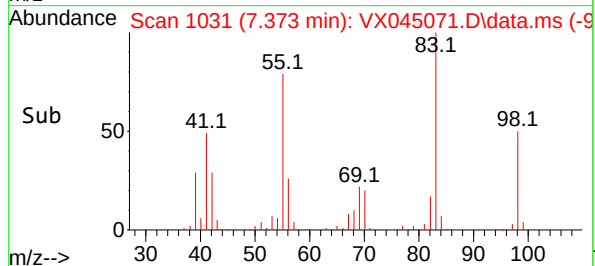
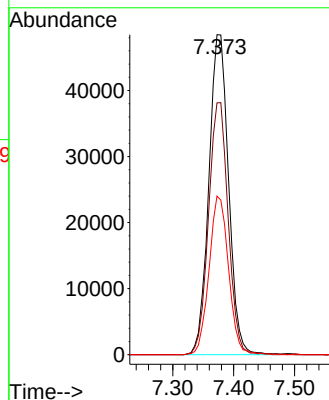
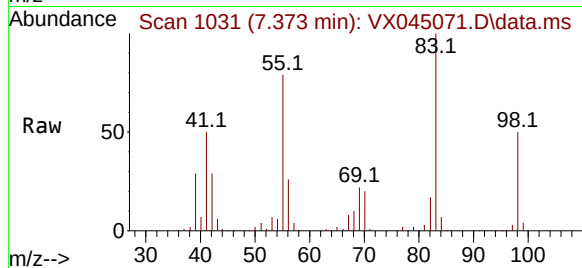
98 49.6 39.7 59.5

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

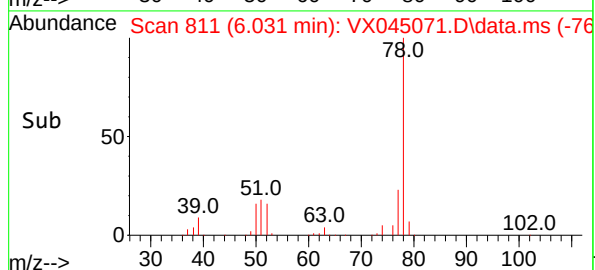
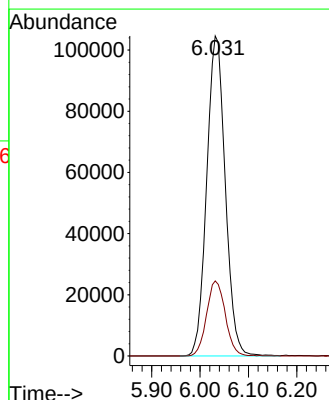
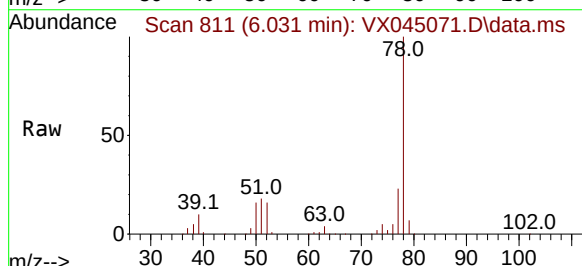
Acq: 28 Feb 2025 03:00

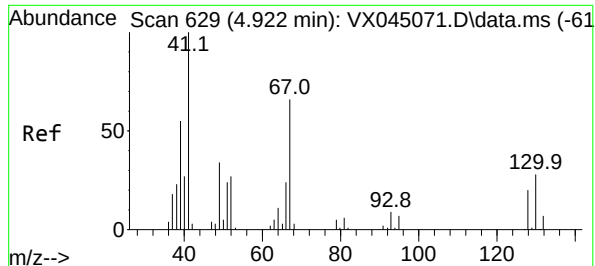
Tgt Ion: 78 Resp: 278802

Ion Ratio Lower Upper

78 100

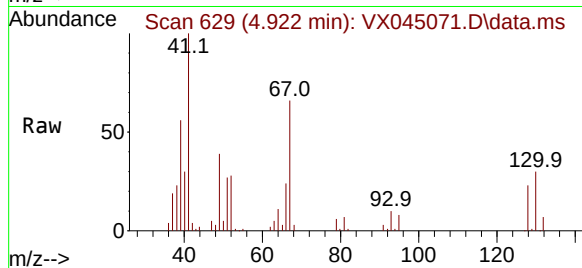
77 23.5 18.8 28.2





#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

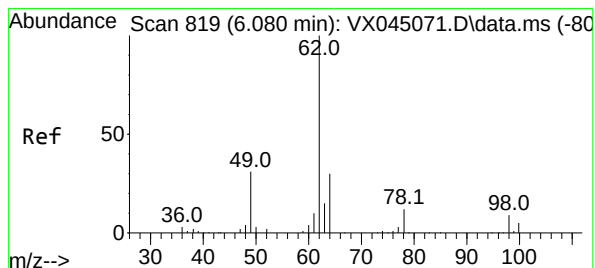
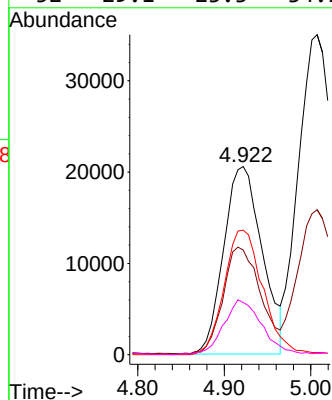
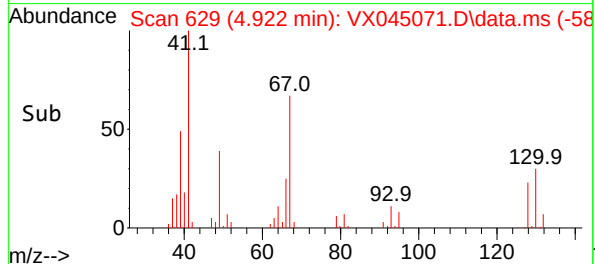
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



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

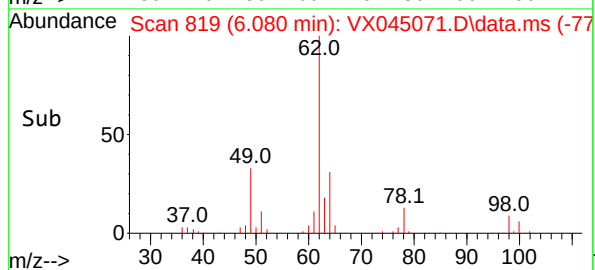
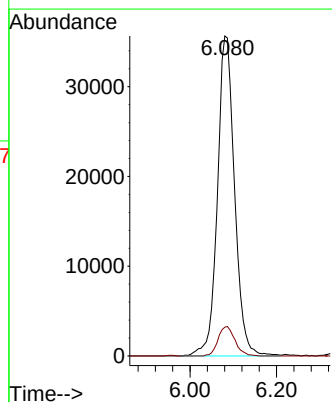
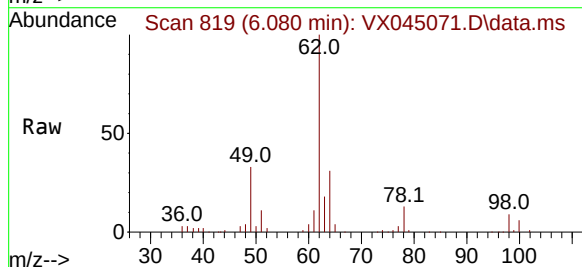
Manual Integrations
APPROVED

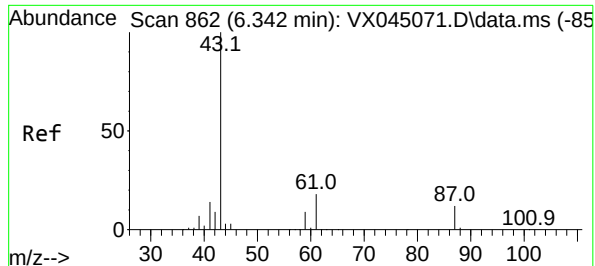
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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# 862

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

18.6

87

11.8

14.9

9.4

22.3

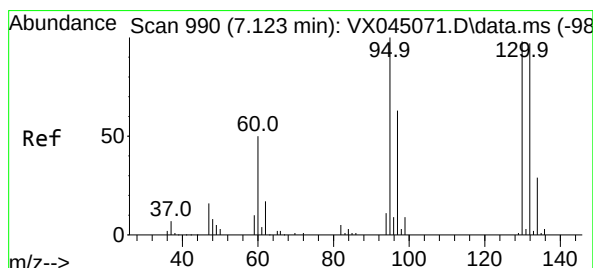
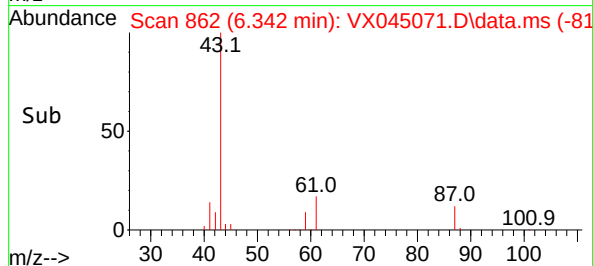
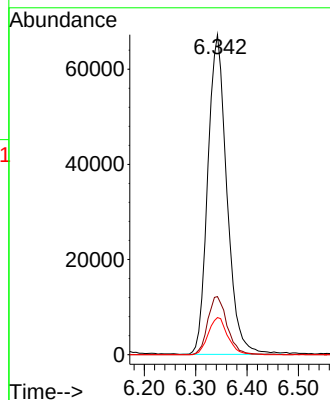
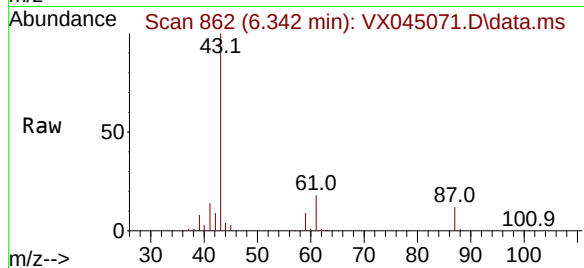
14.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#44

Trichloroethene

Concen: 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

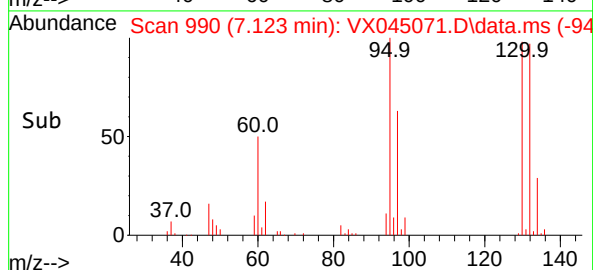
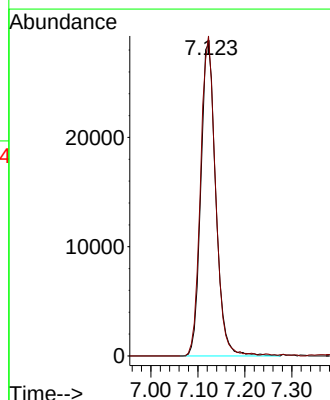
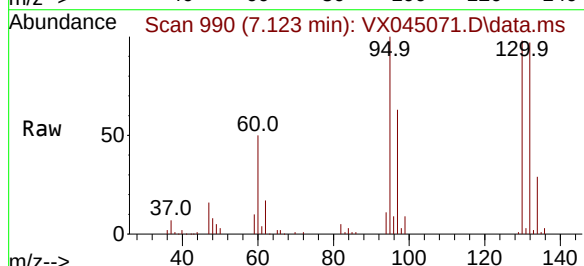
100

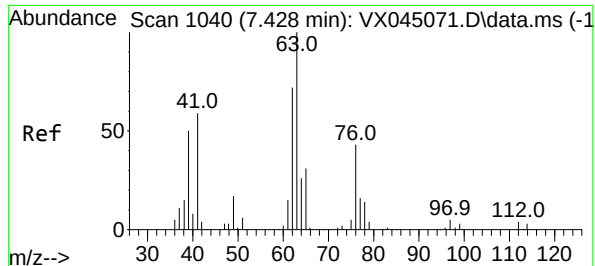
95

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

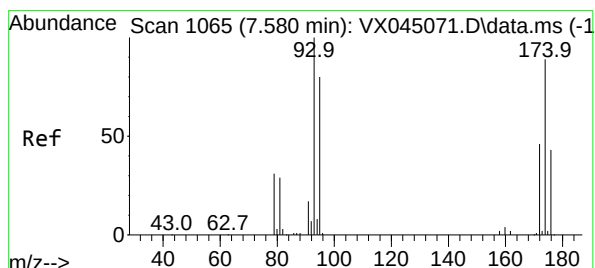
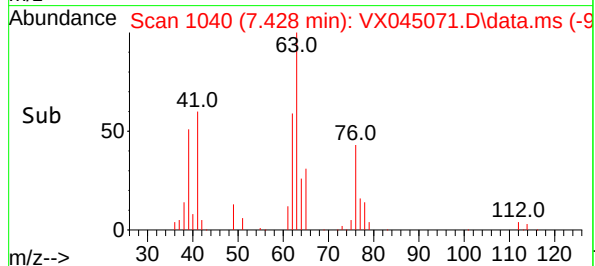
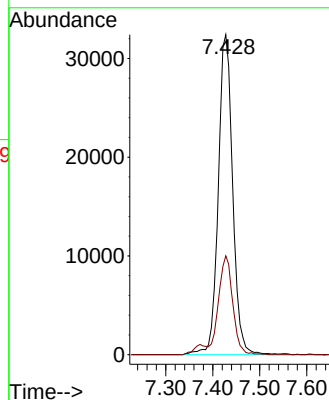
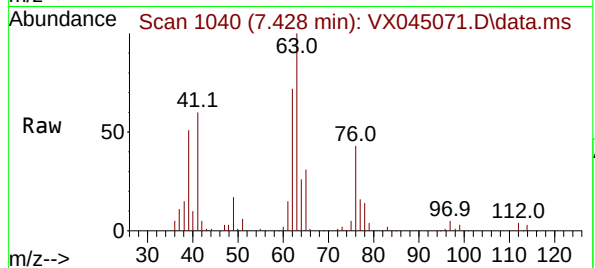
65 30.9 24.7 37.1

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

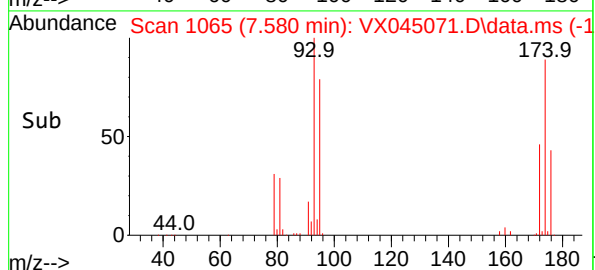
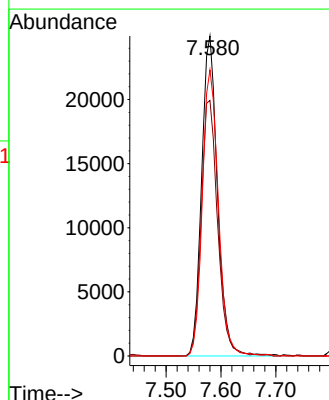
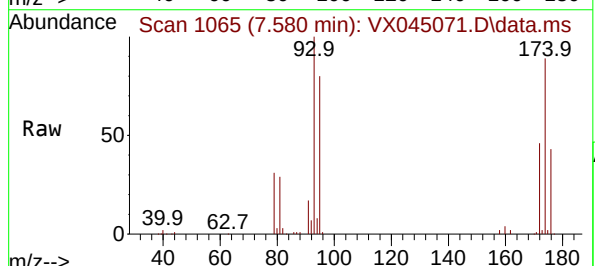
Tgt Ion: 93 Resp: 50143

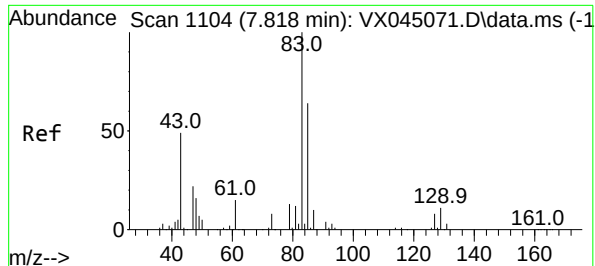
Ion Ratio Lower Upper

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

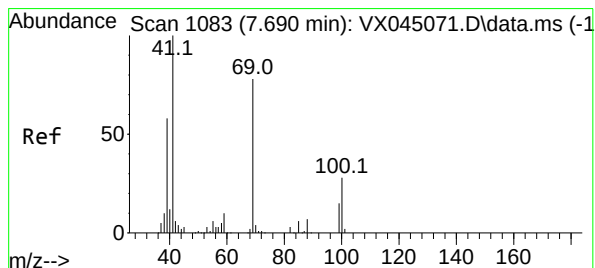
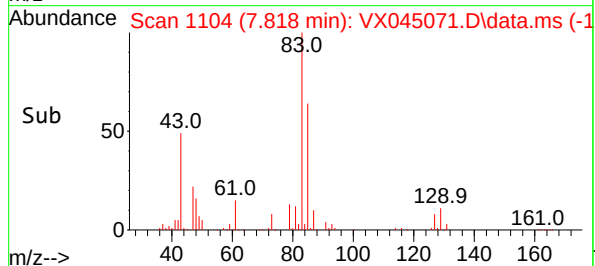
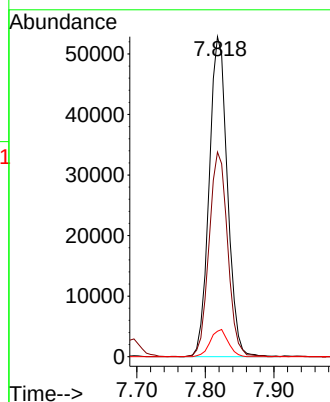
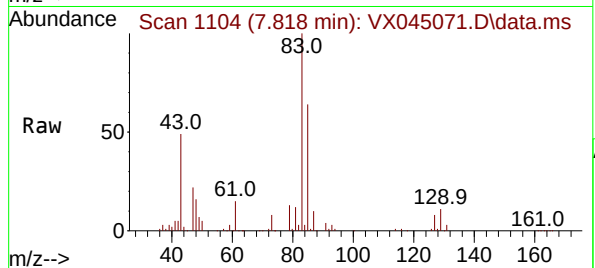
Tgt Ion:	83	Resp:	97729
Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.1	76.7
127	8.0	6.4	9.6

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

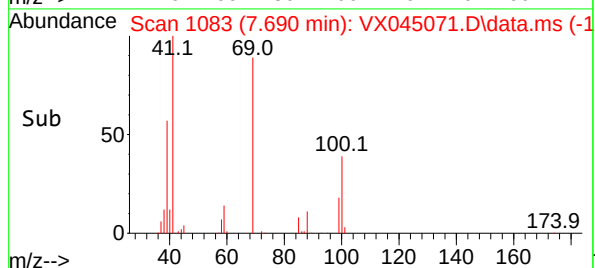
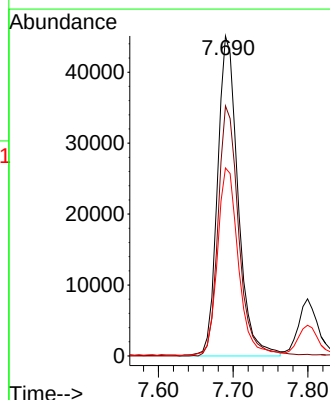
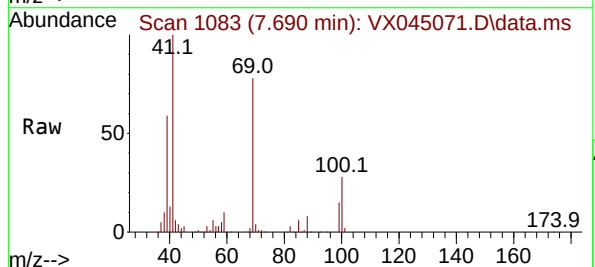
RT: 7.690 min Scan# 1083

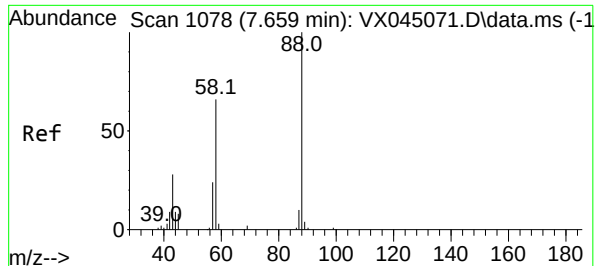
Delta R.T. 0.000 min

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

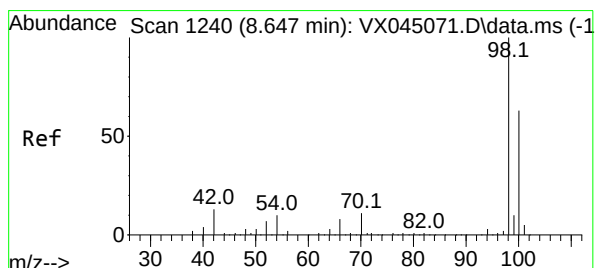
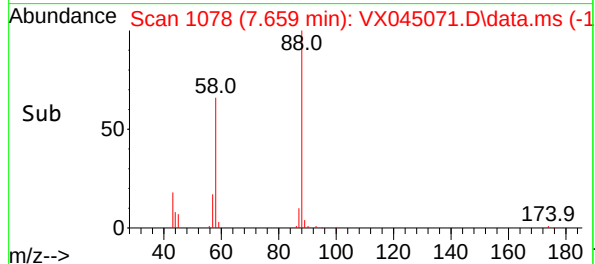
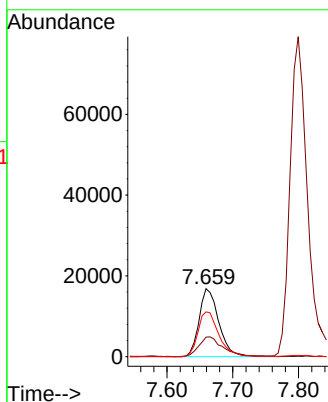
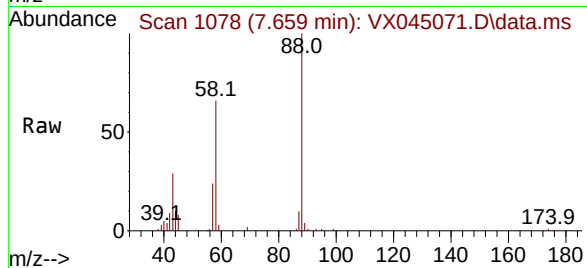
Tgt Ion:	88	Resp:	3505
Ion Ratio	Lower	Upper	
88	100		
43	35.9	28.7	43.1
58	69.8	55.8	83.8

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

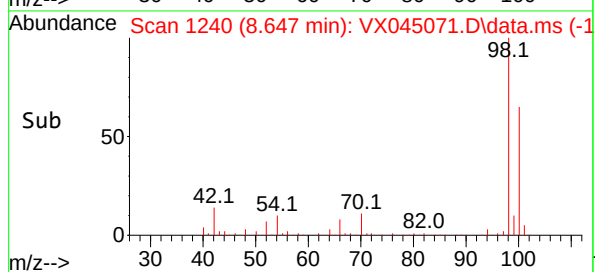
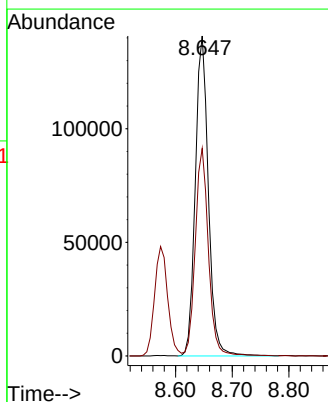
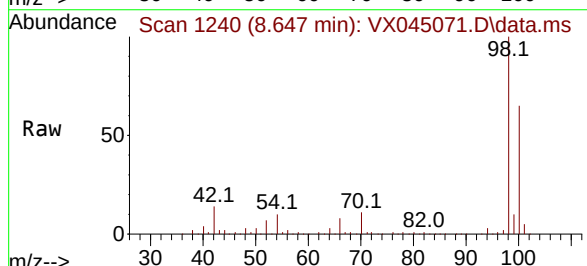
RT: 8.647 min Scan# 1240

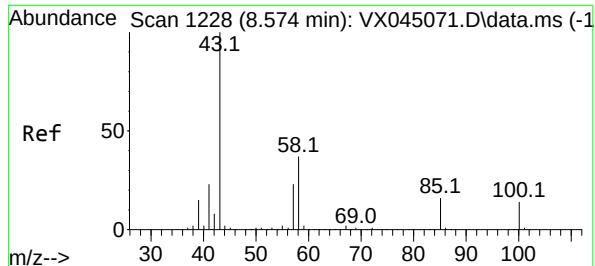
Delta R.T. 0.000 min

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





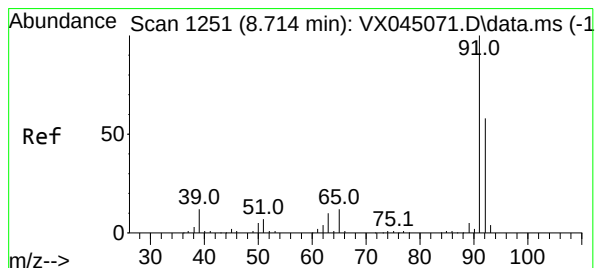
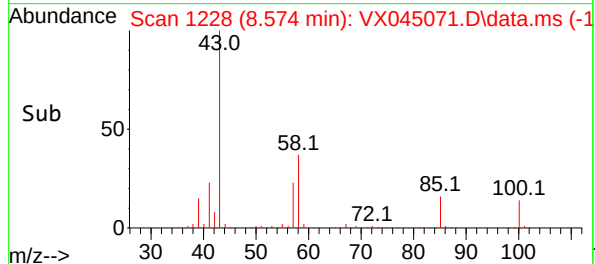
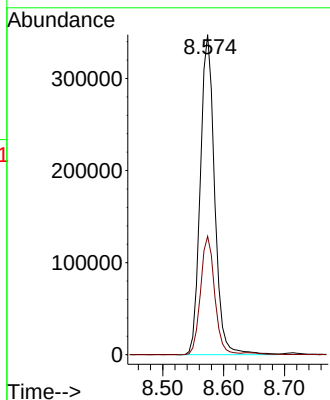
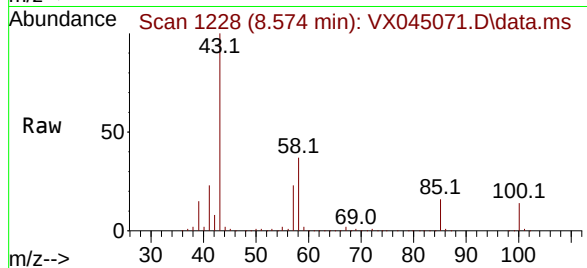
#51
4-Methyl-2-Pentanone
Concen: 292.570 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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

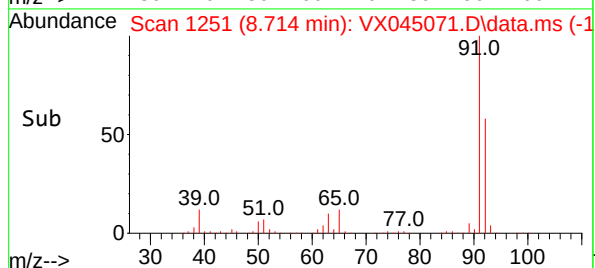
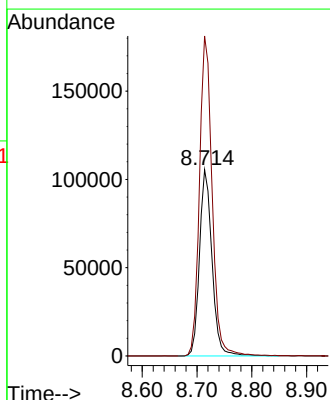
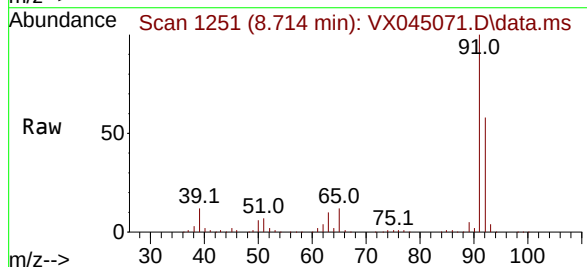
Manual Integrations
APPROVED

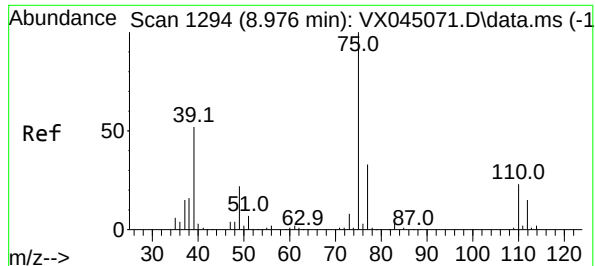
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

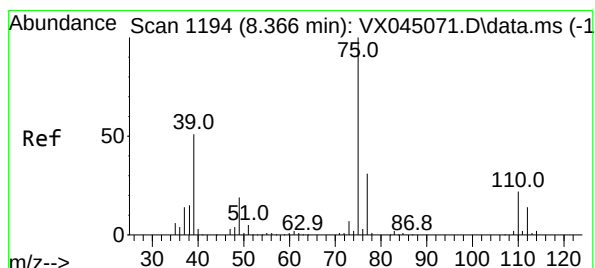
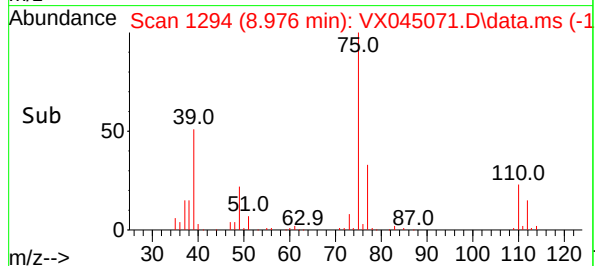
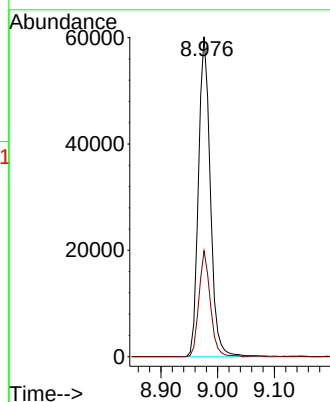
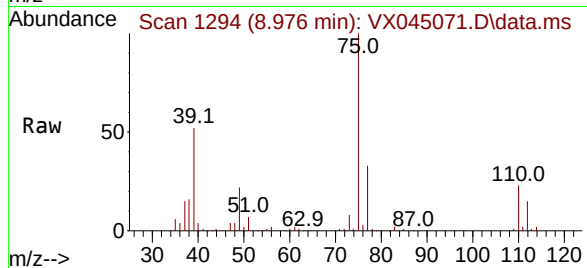
77 33.1 26.5 39.7

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

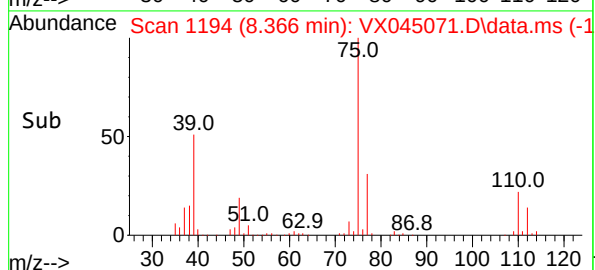
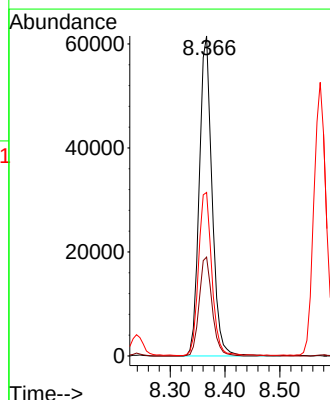
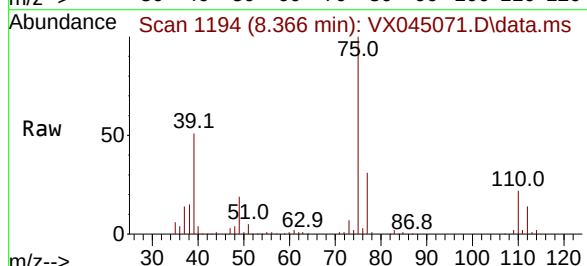
Tgt Ion: 75 Resp: 99713

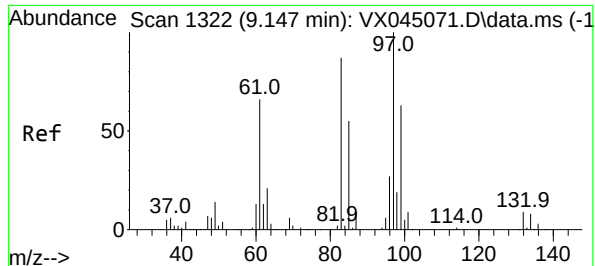
Ion Ratio Lower Upper

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 :

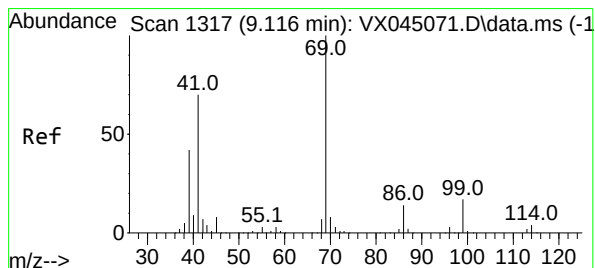
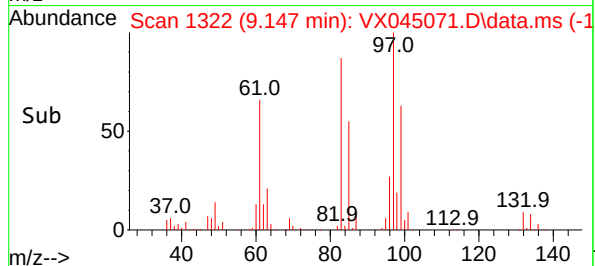
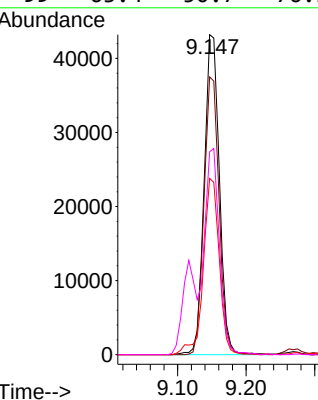
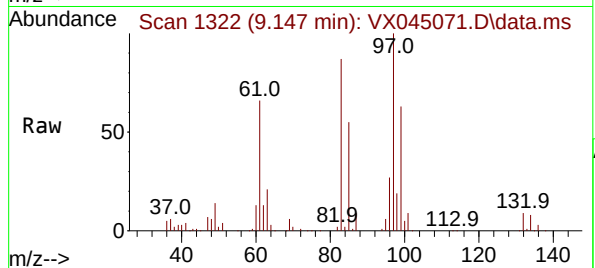
VSTDICCC050

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

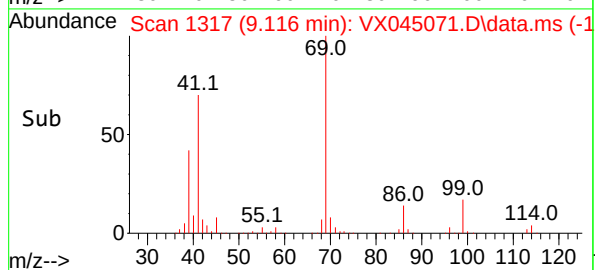
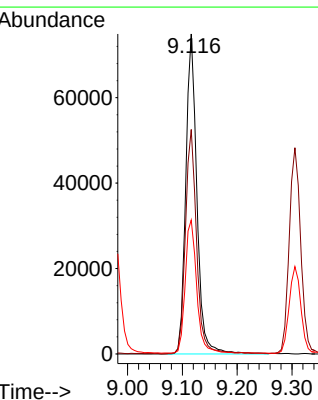
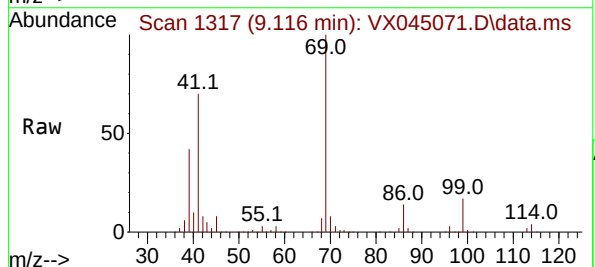
Tgt Ion: 69 Resp: 106157

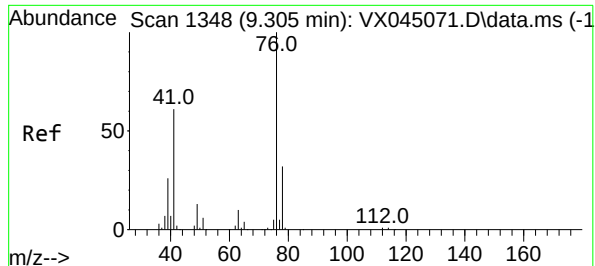
Ion Ratio Lower Upper

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

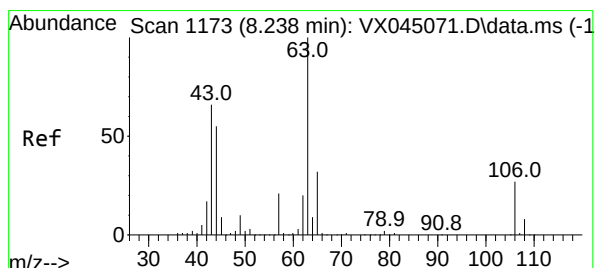
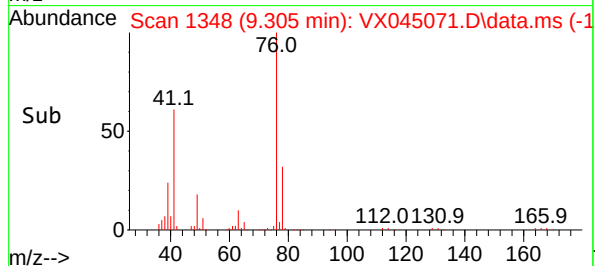
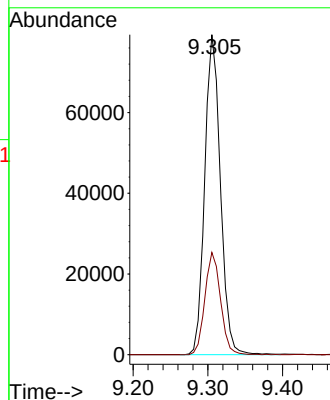
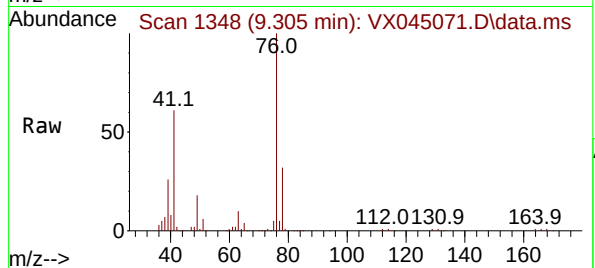
78 31.9 25.5 38.3

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

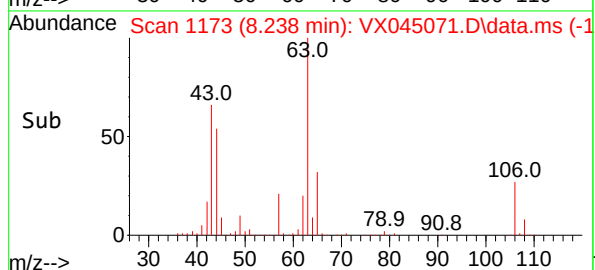
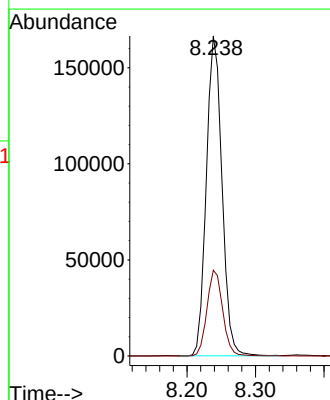
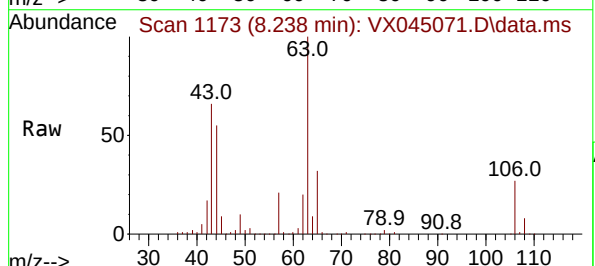
Acq: 28 Feb 2025 03:00

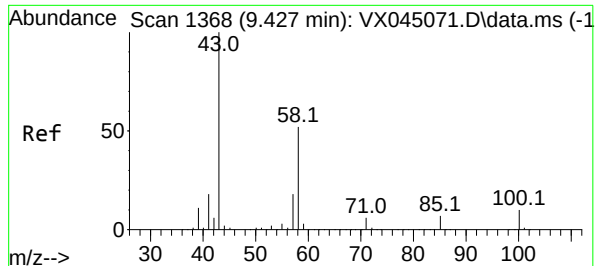
Tgt Ion: 63 Resp: 264555

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

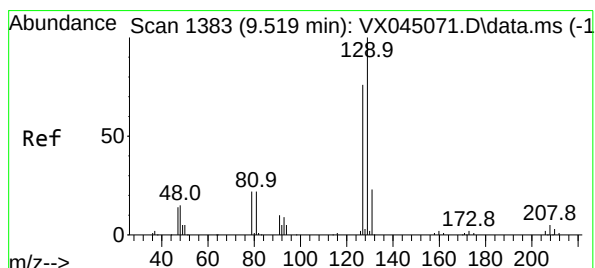
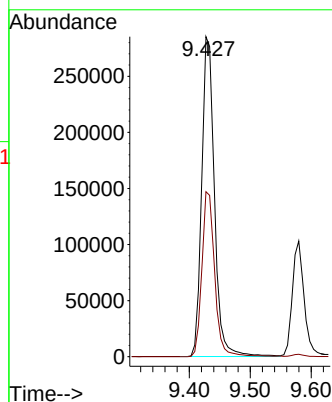
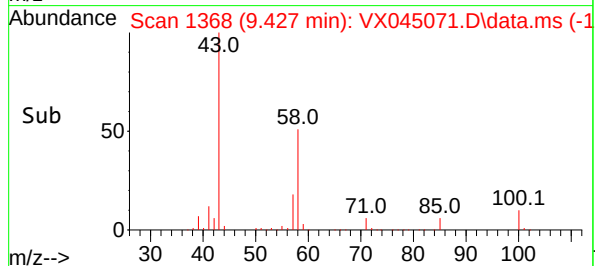
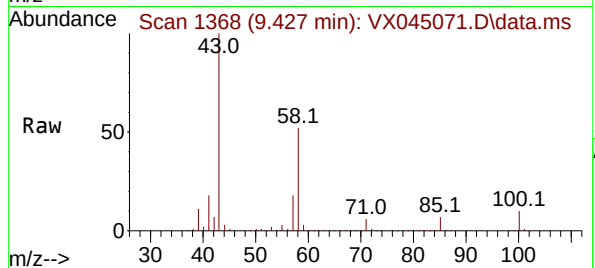
58 51.7 25.9 77.6

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

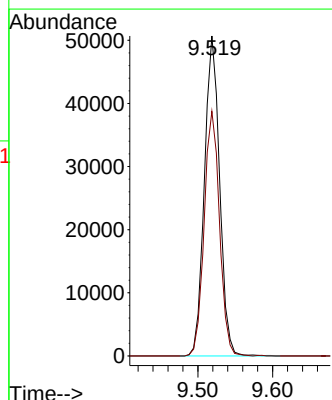
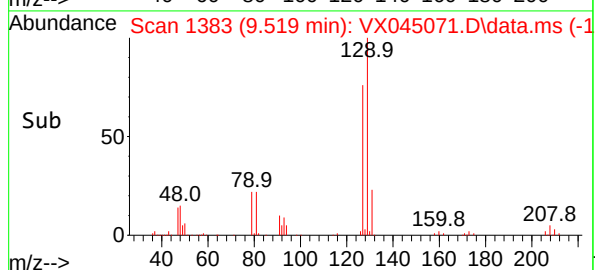
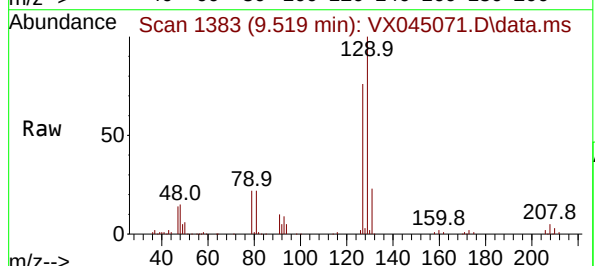
Acq: 28 Feb 2025 03:00

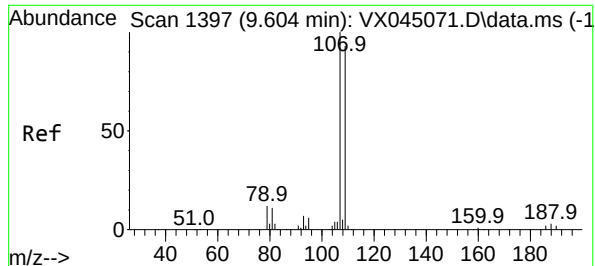
Tgt Ion:129 Resp: 71569

Ion Ratio Lower Upper

129 100

127 77.0 38.5 115.5





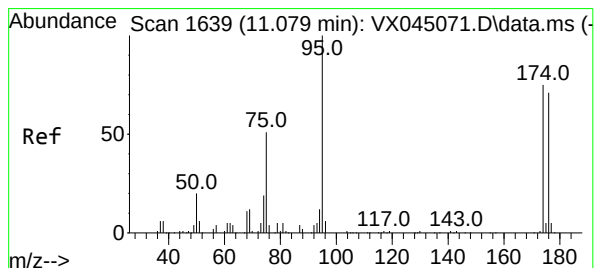
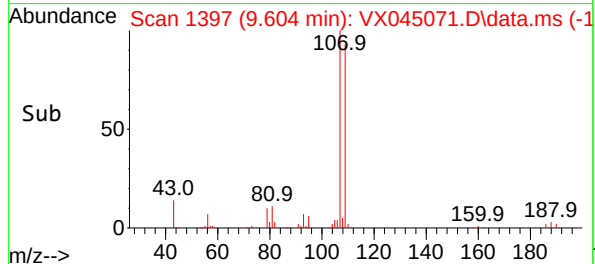
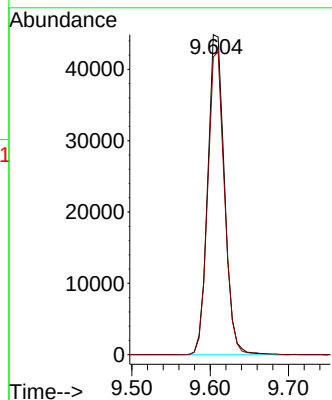
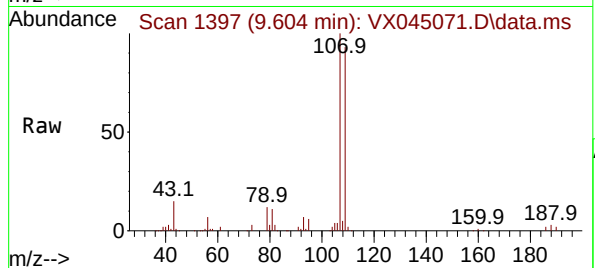
#61
1,2-Dibromoethane
Concen: 52.217 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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

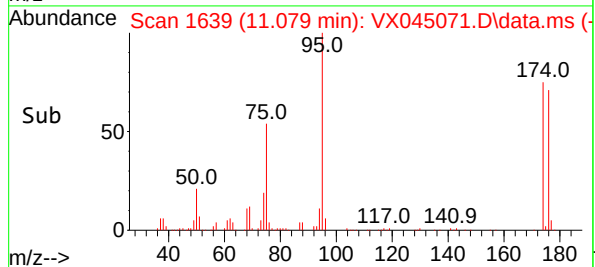
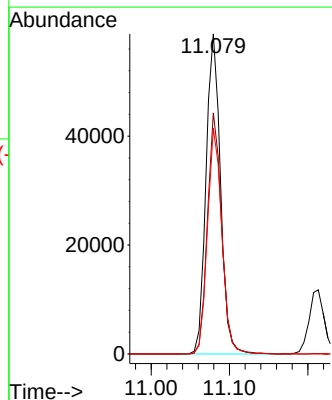
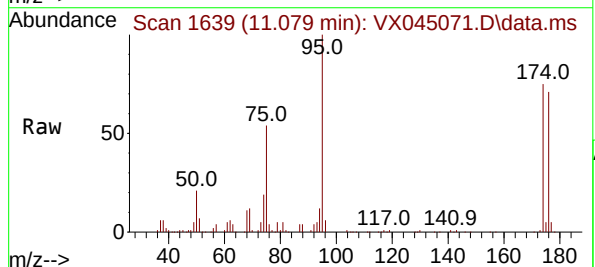
Manual Integrations
APPROVED

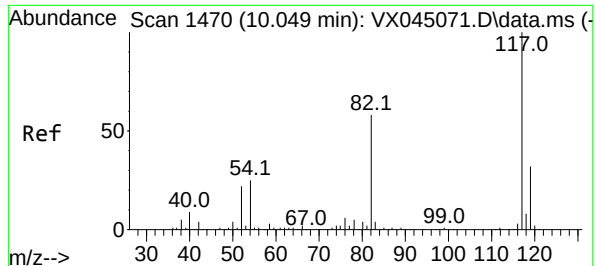
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

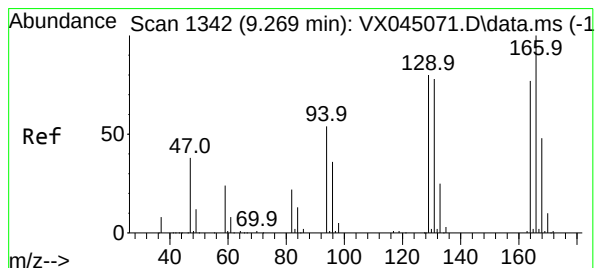
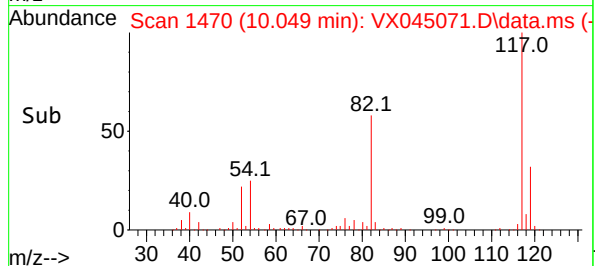
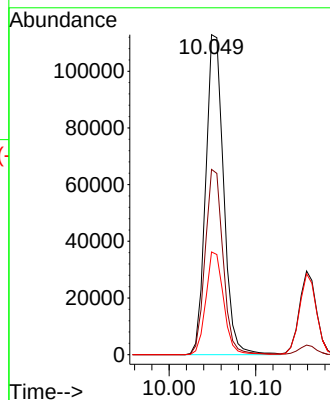
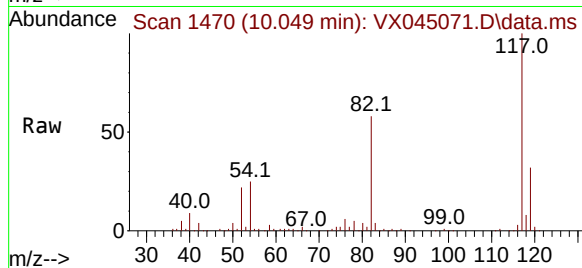
119 32.1 25.7 38.5

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

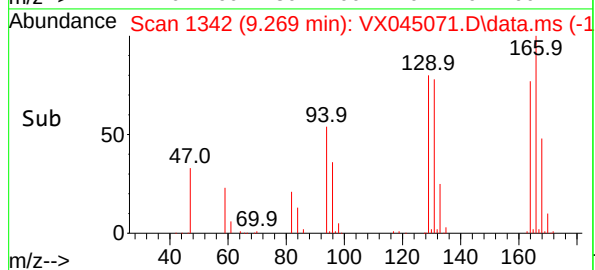
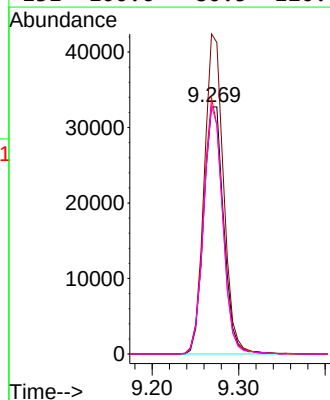
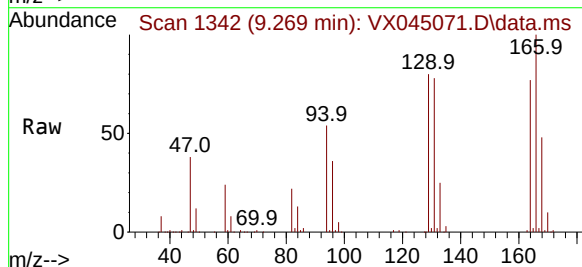
Ion Ratio Lower Upper

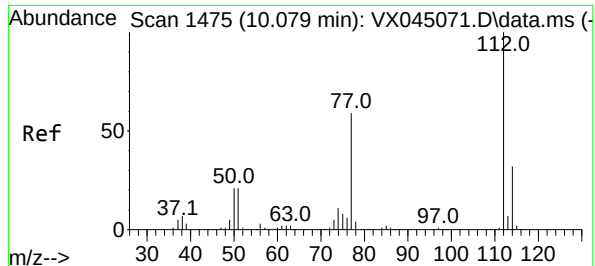
164 100

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

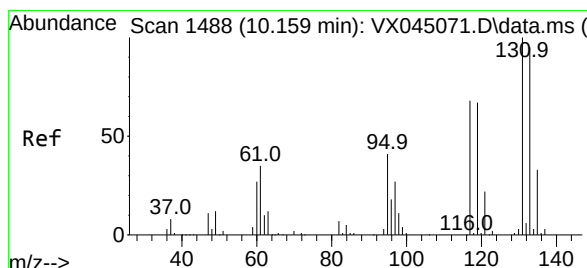
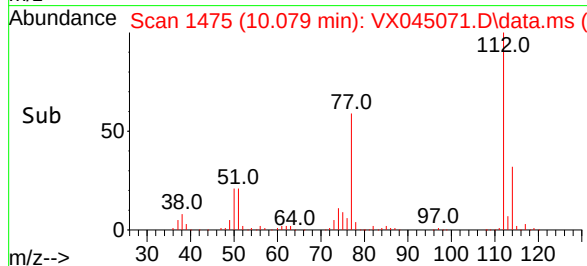
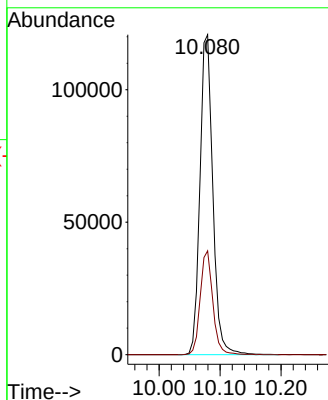
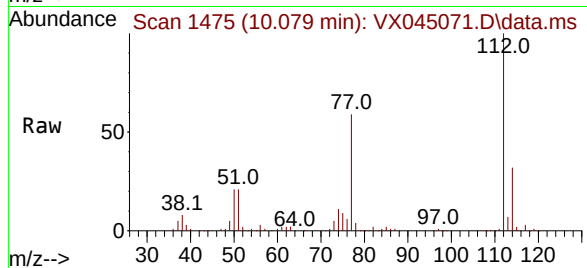
114 32.5 26.0 39.0

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

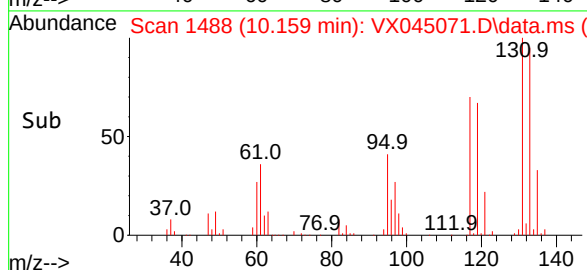
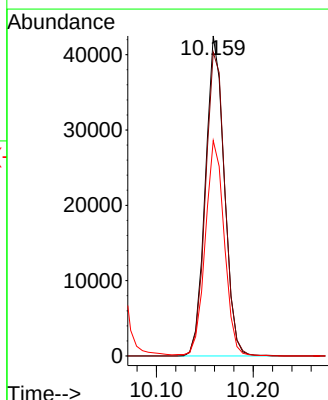
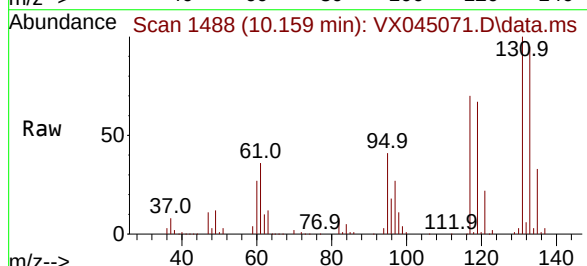
Tgt Ion:131 Resp: 57642

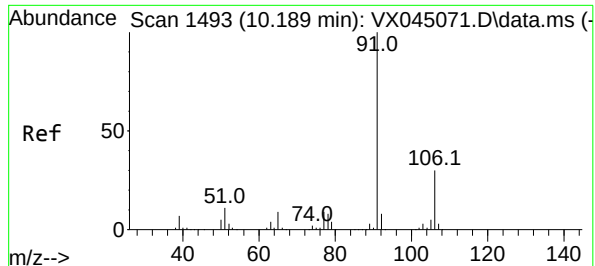
Ion Ratio Lower Upper

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

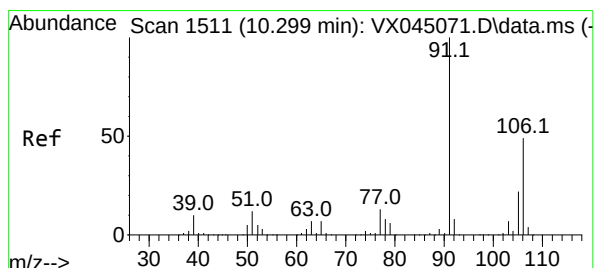
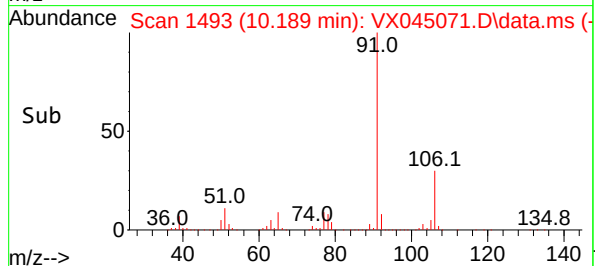
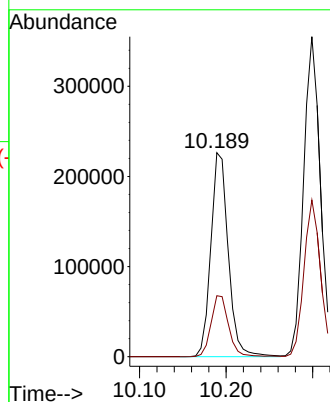
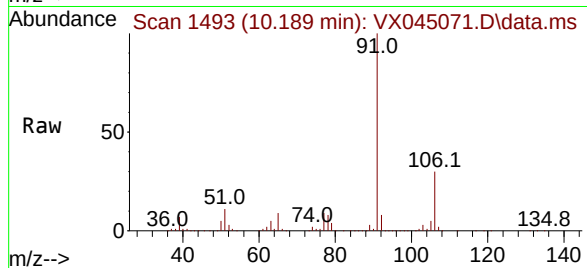
106 29.9 23.9 35.9

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

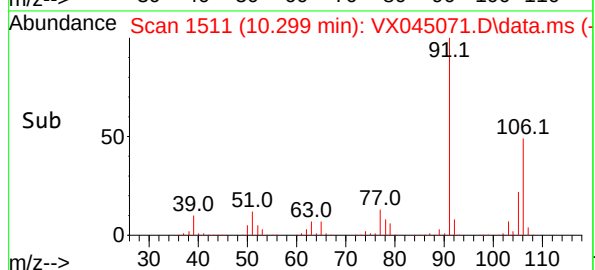
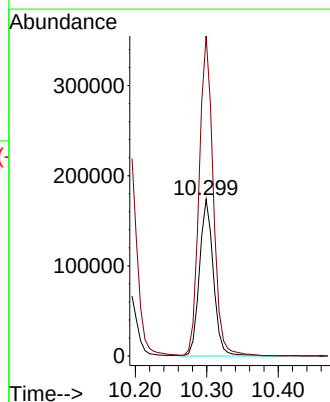
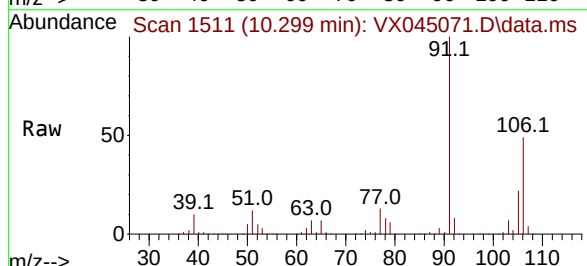
Acq: 28 Feb 2025 03:00

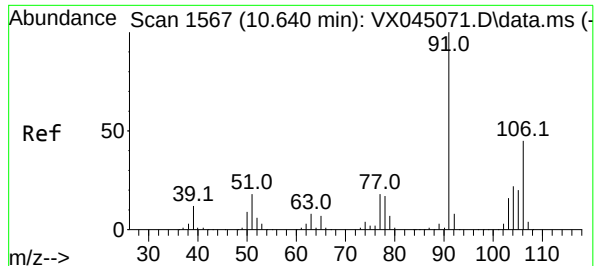
Tgt Ion:106 Resp: 234554

Ion Ratio Lower Upper

106 100

91 206.7 165.4 248.0





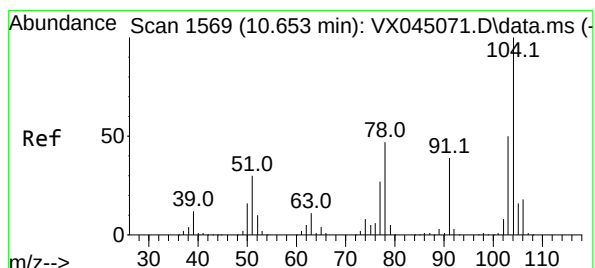
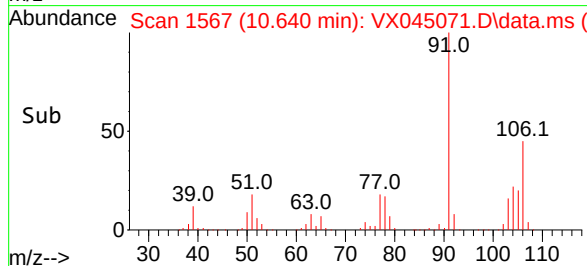
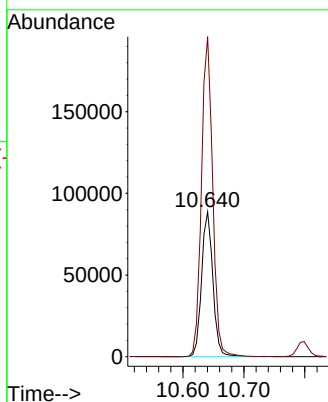
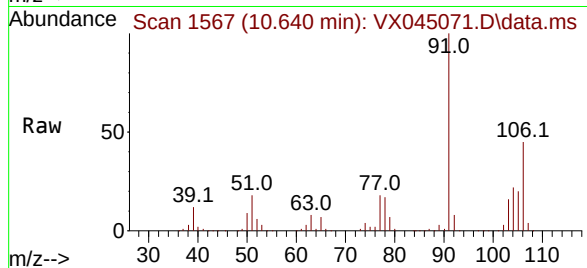
#69
o-Xylene
Concen: 50.341 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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

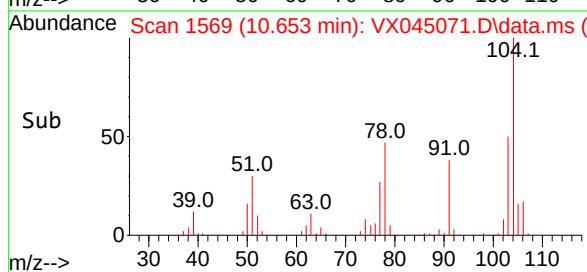
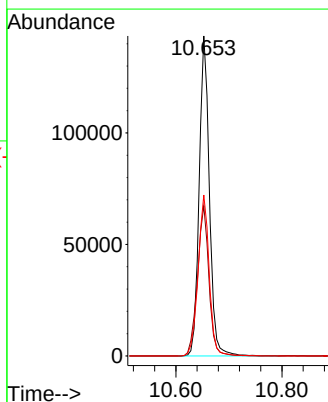
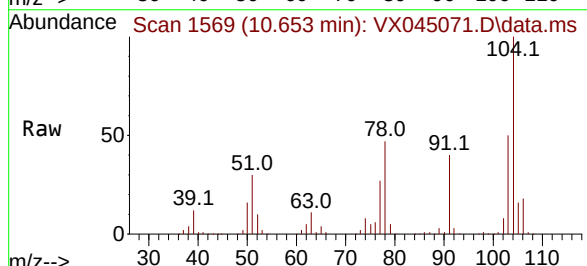
Manual Integrations
APPROVED

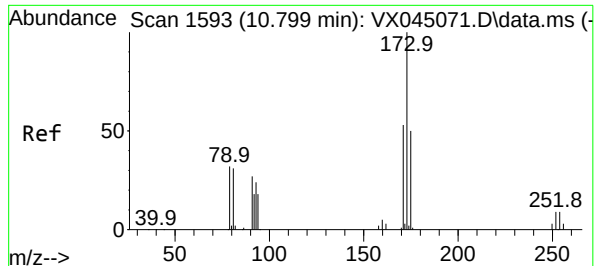
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

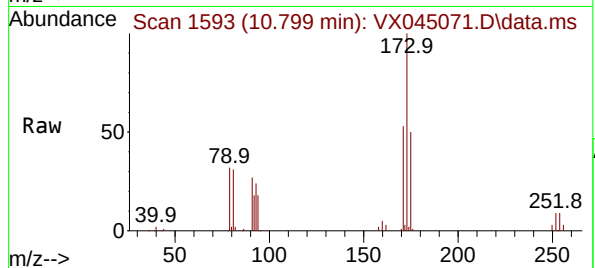
Tgt Ion:104 Resp: 191406
Ion Ratio Lower Upper
104 100
78 52.8 42.2 63.4
103 54.8 43.8 65.8





#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

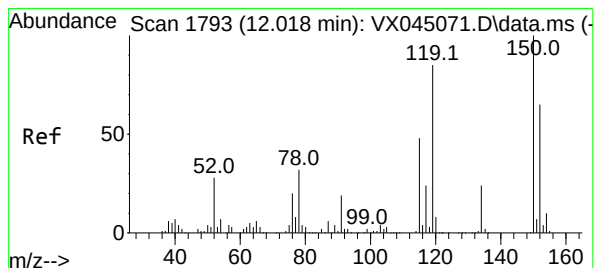
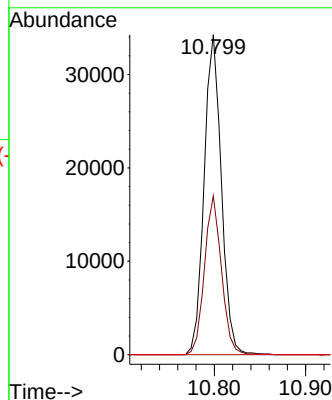
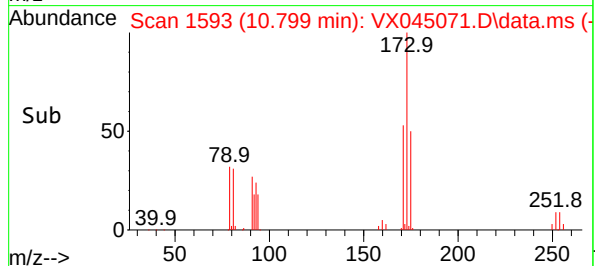
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



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

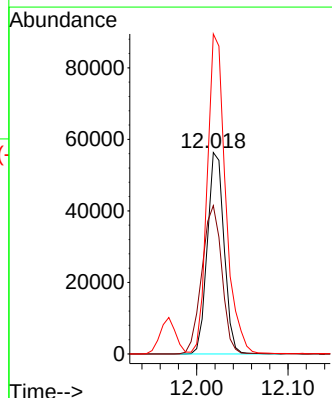
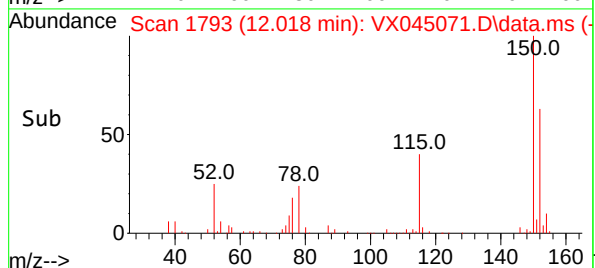
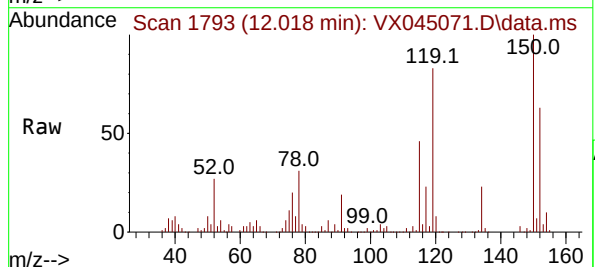
Manual Integrations
APPROVED

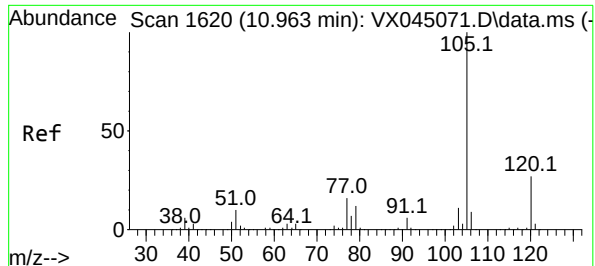
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

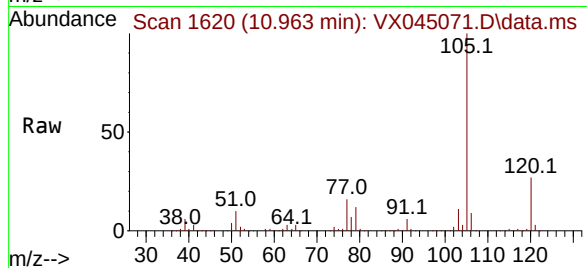
Tgt Ion:152 Resp: 71264
Ion Ratio Lower Upper
152 100
115 88.4 44.2 132.6
150 174.5 0.0 349.0





#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

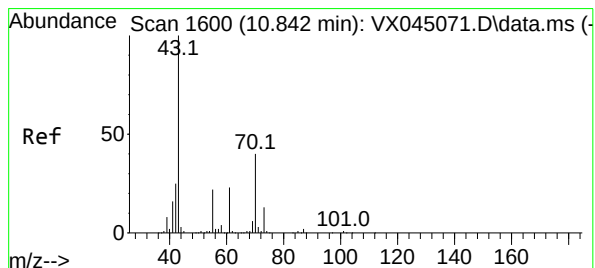
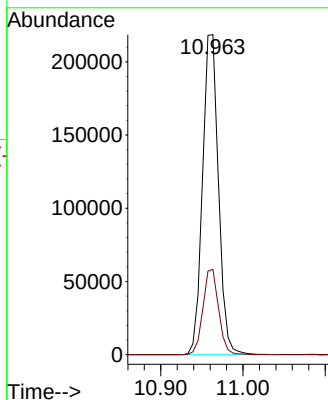
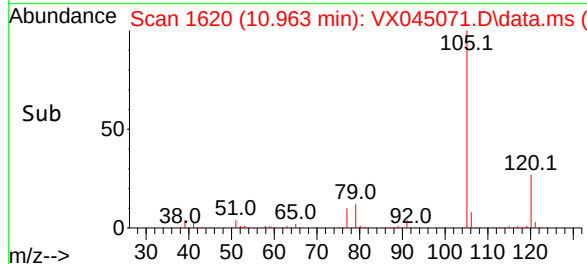
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



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

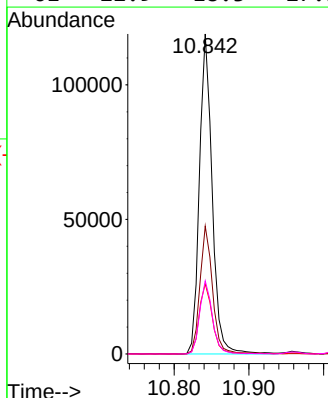
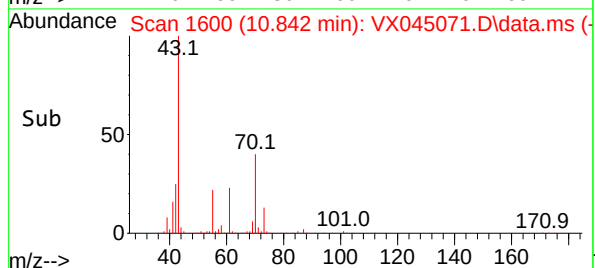
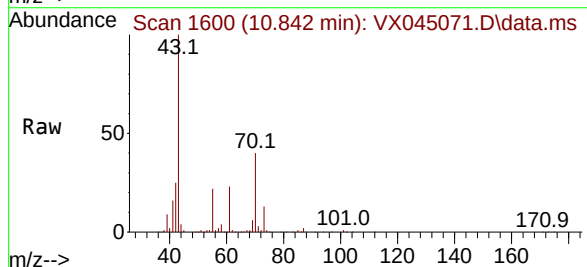
Manual Integrations
APPROVED

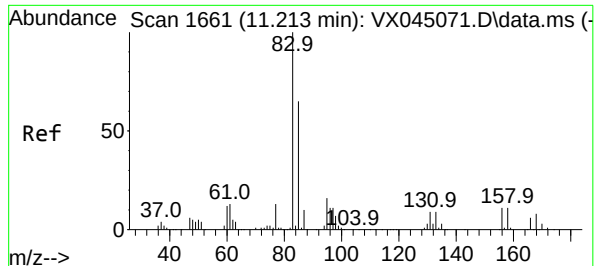
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





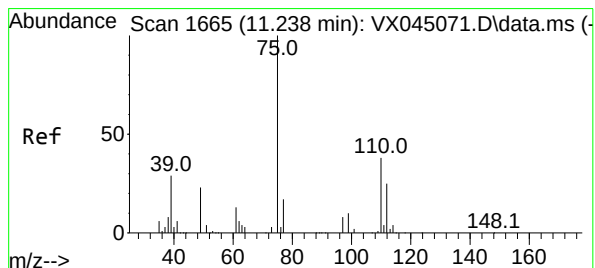
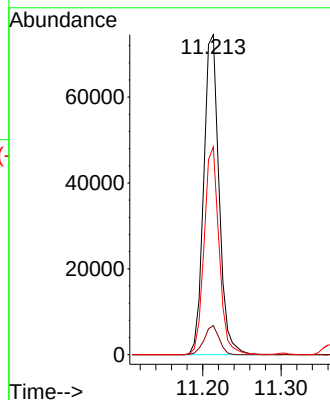
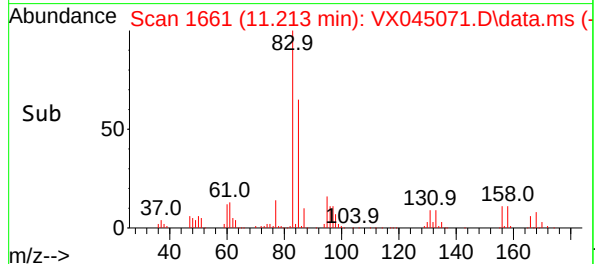
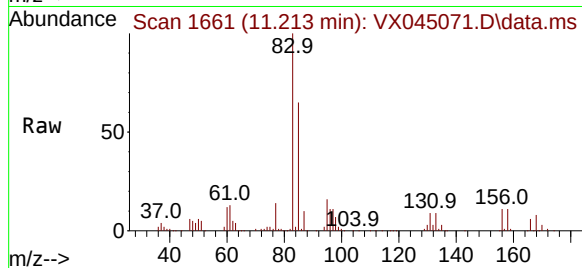
#75
1,1,2,2-Tetrachloroethane
Concen: 50.945 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

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

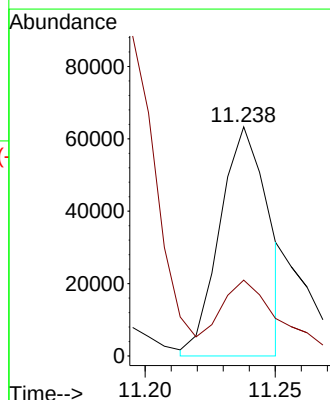
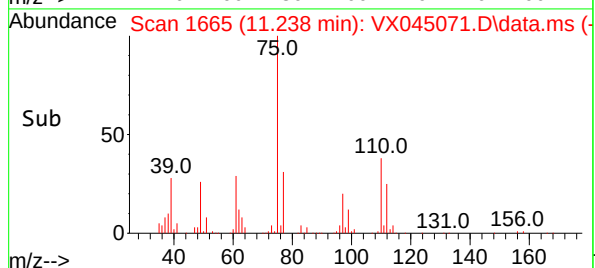
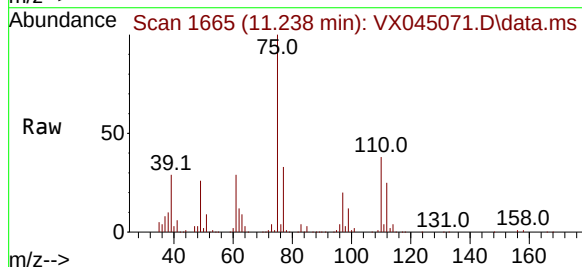
Manual Integrations
APPROVED

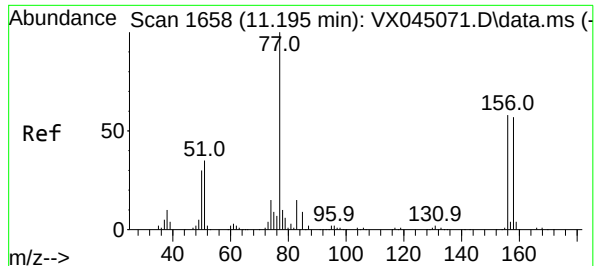
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

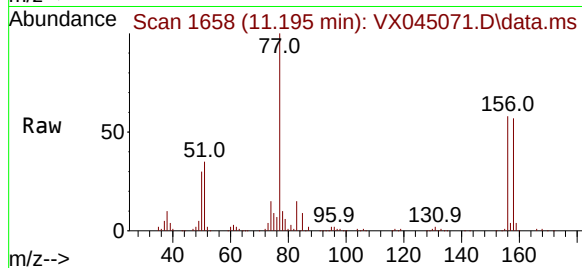
Tgt Ion: 75 Resp: 81743
Ion Ratio Lower Upper
75 100
77 41.4 20.7 62.1





#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

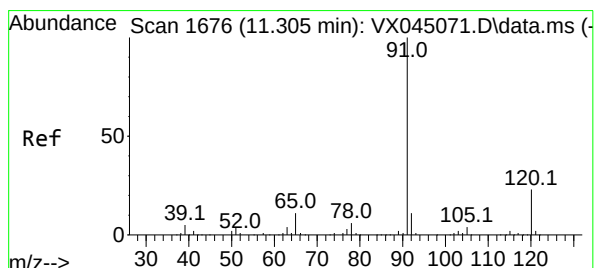
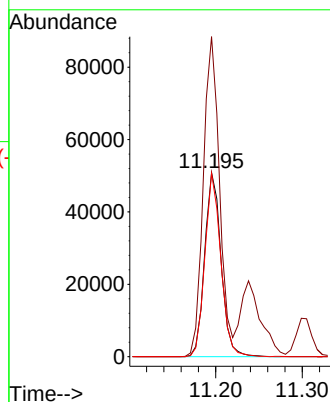
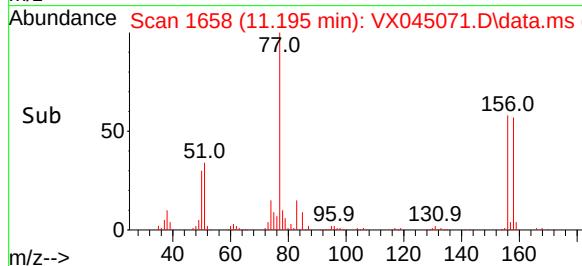
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



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

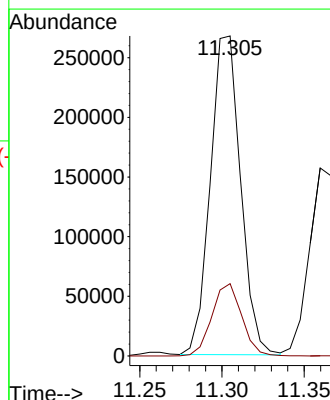
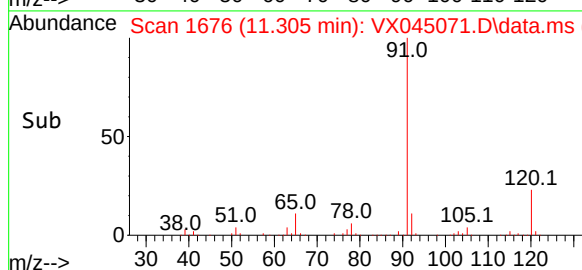
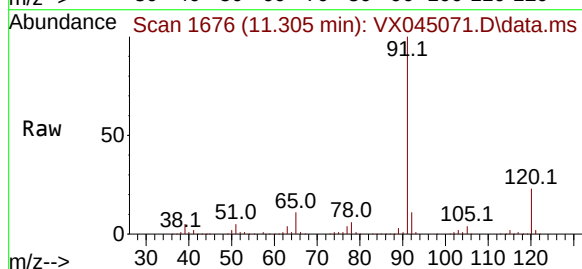
Manual Integrations
APPROVED

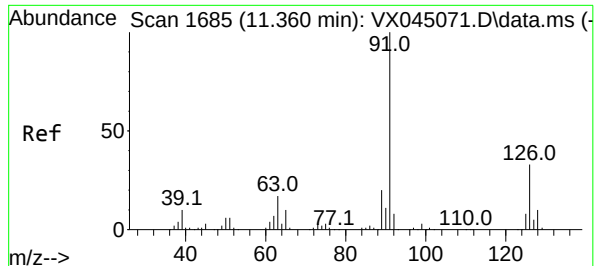
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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# 1

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

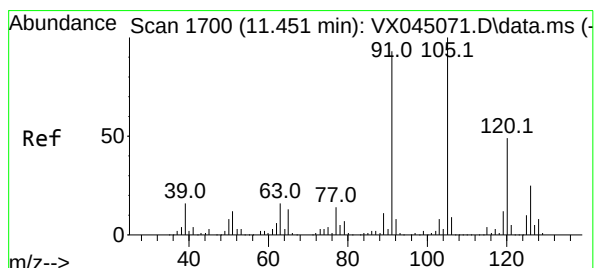
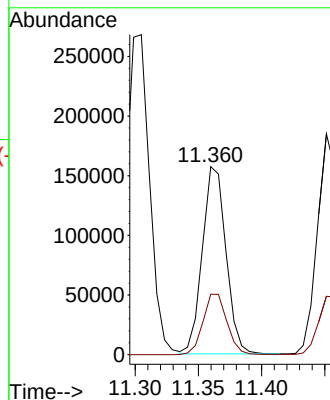
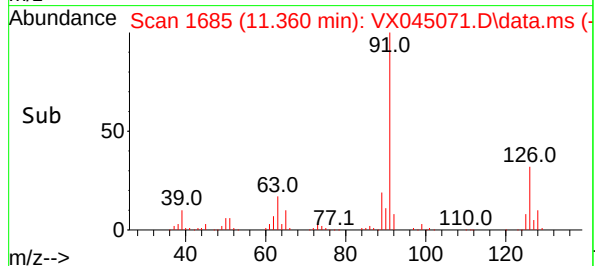
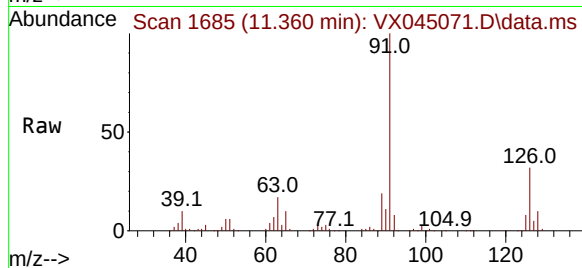
126 32.9 16.4 49.4

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

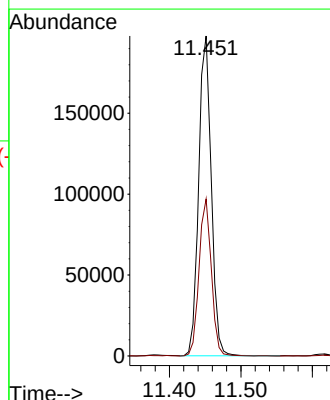
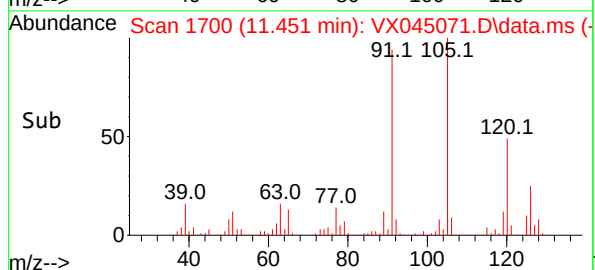
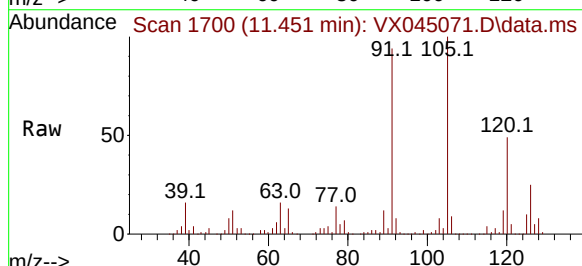
Acq: 28 Feb 2025 03:00

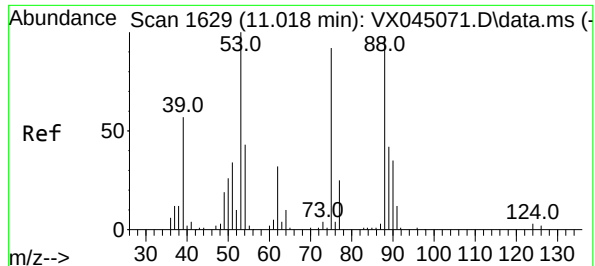
Tgt Ion:105 Resp: 241129

Ion Ratio Lower Upper

105 100

120 48.1 24.1 72.2





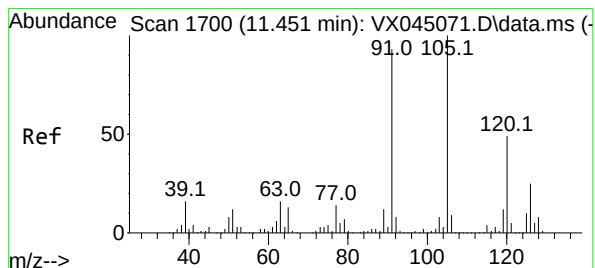
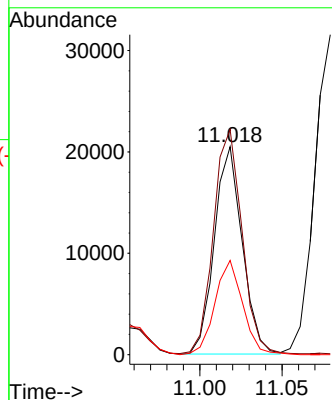
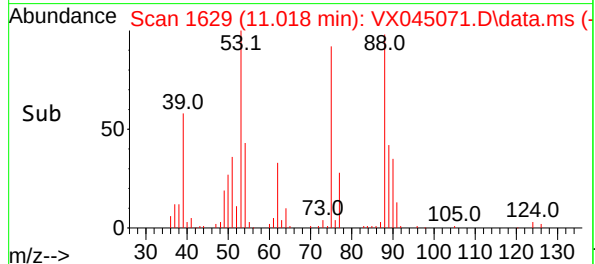
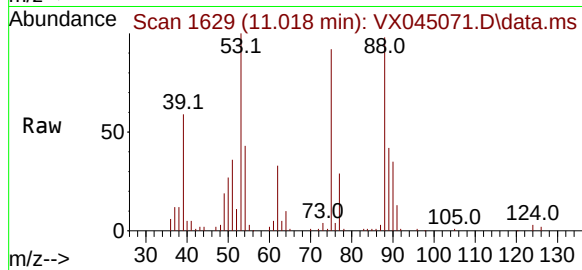
#81
trans-1,4-Dichloro-2-butene
Concen: 41.172 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

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

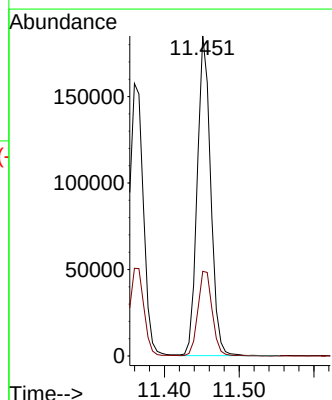
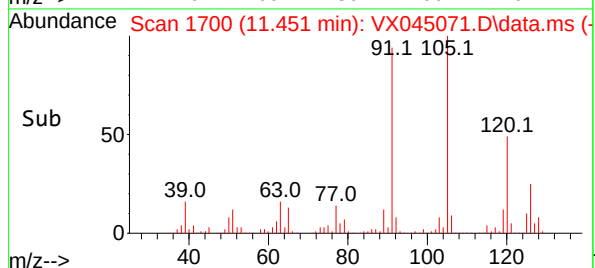
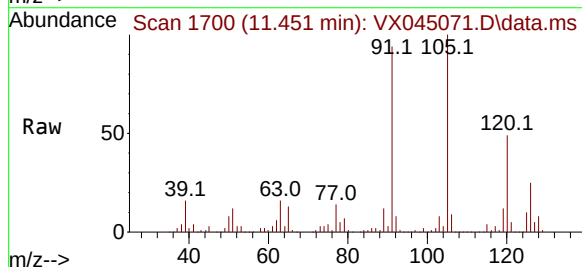
Manual Integrations
APPROVED

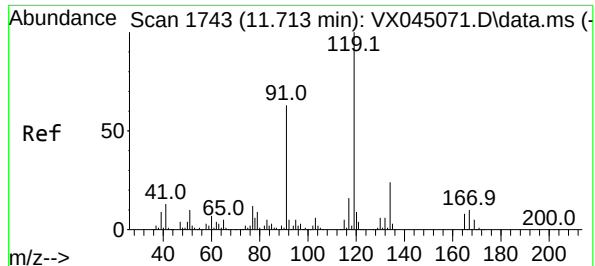
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

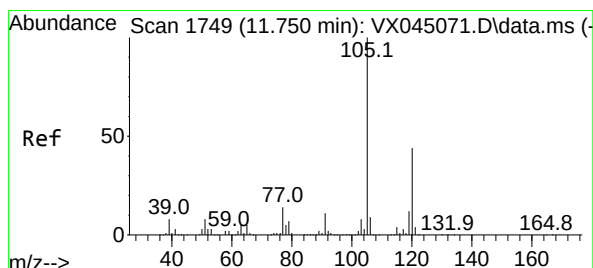
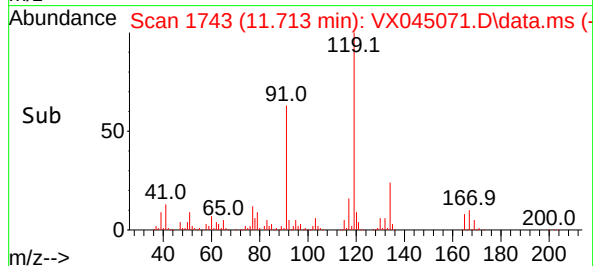
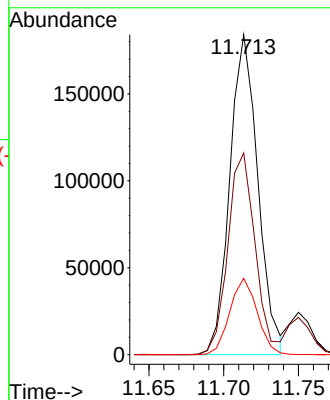
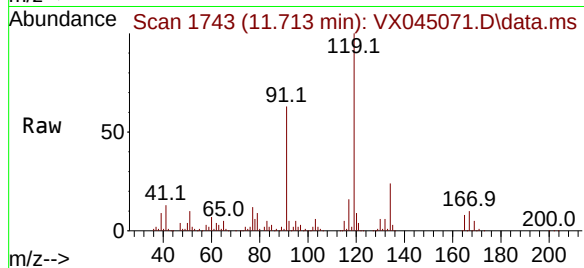
134 23.3 11.7 35.0

Manual Integrations

APPROVED

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

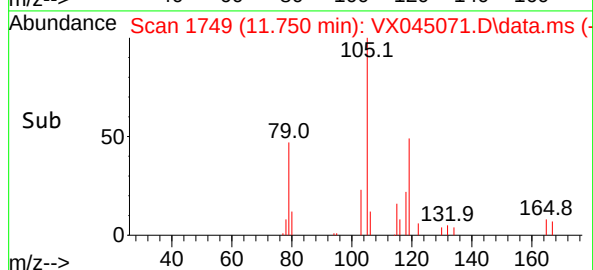
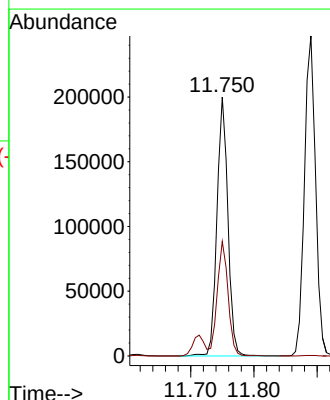
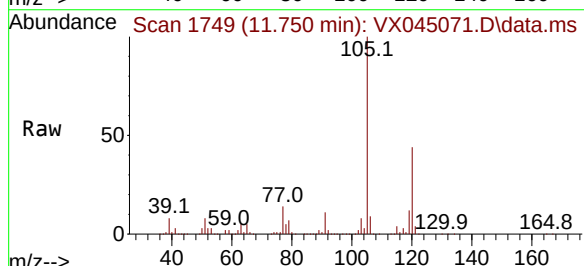
Acq: 28 Feb 2025 03:00

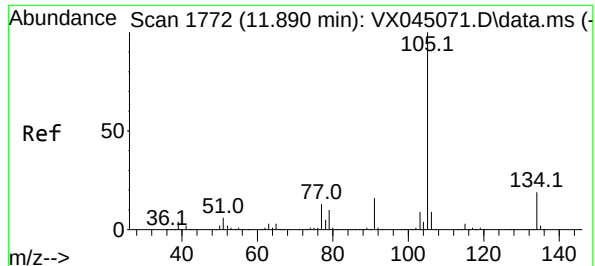
Tgt Ion:105 Resp: 240719

Ion Ratio Lower Upper

105 100

120 44.1 22.1 66.1





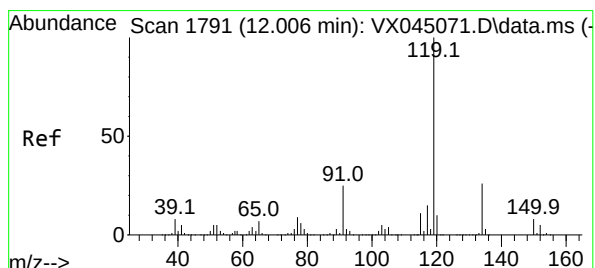
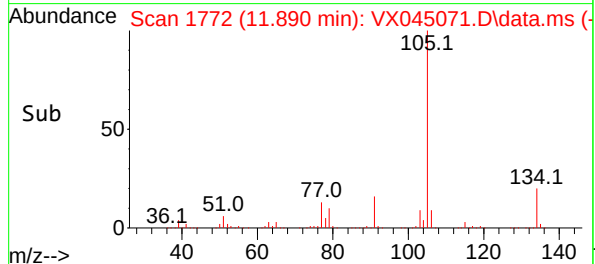
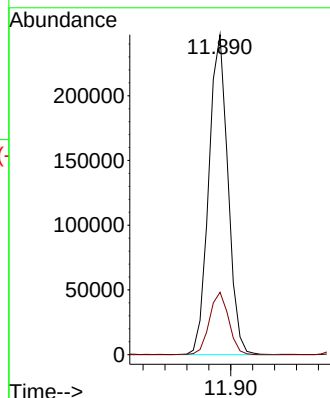
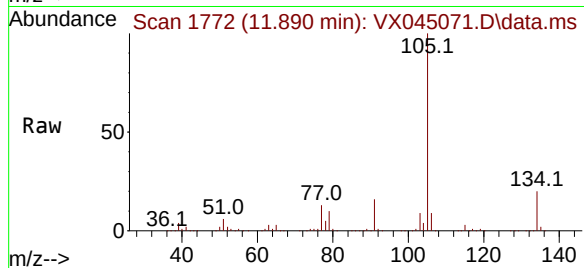
#85
sec-Butylbenzene
Concen: 51.353 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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

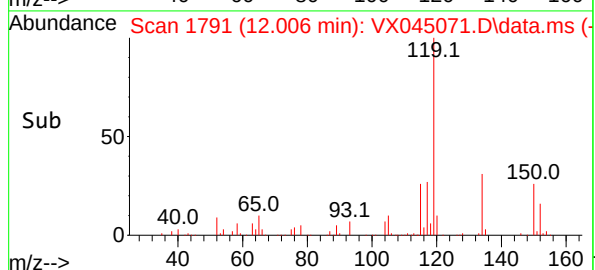
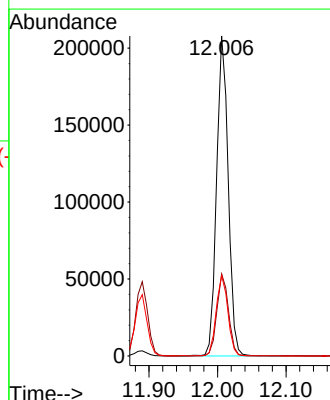
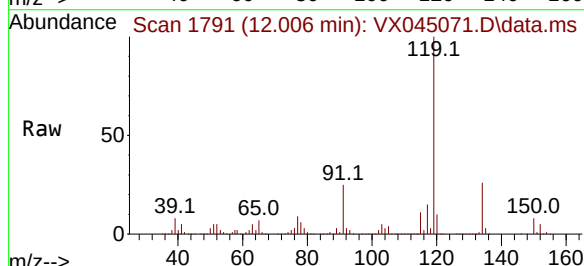
Manual Integrations
APPROVED

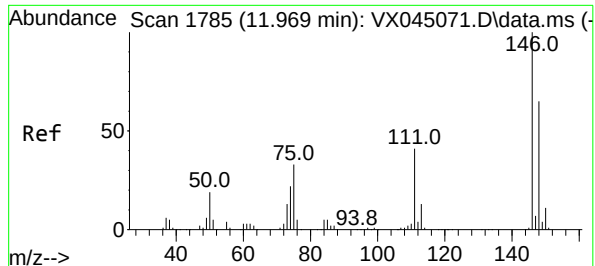
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

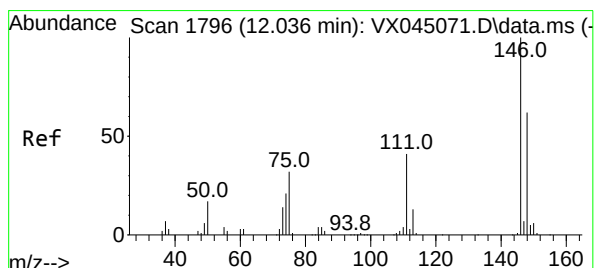
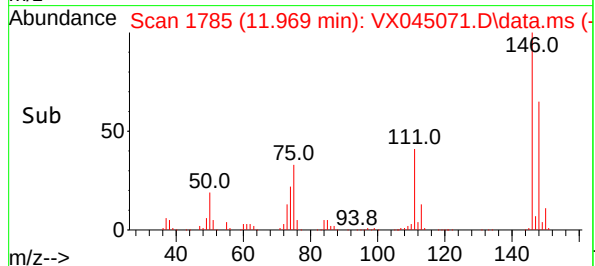
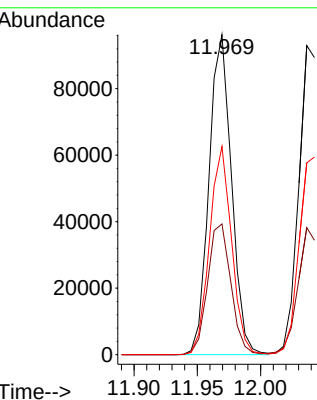
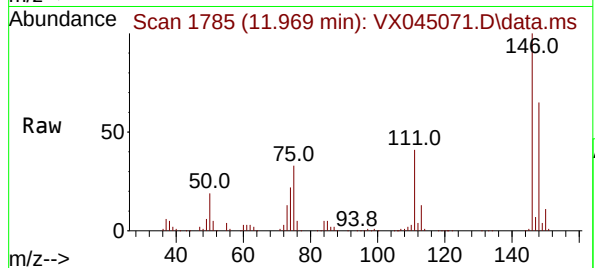
148 63.8 31.9 95.7

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

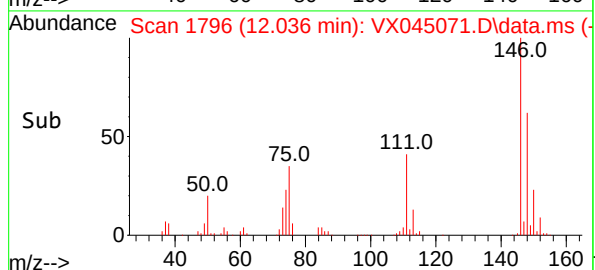
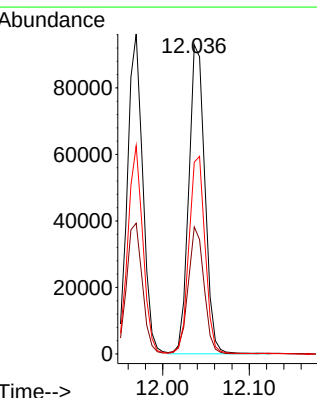
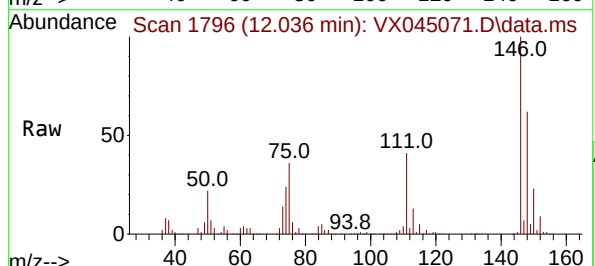
Tgt Ion:146 Resp: 120217

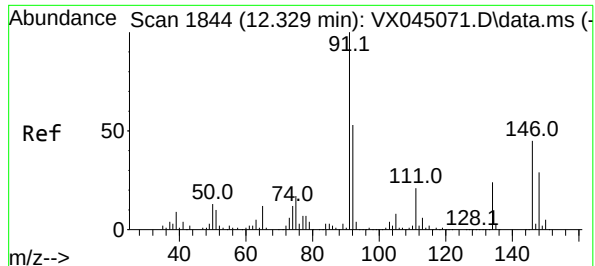
Ion Ratio Lower Upper

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

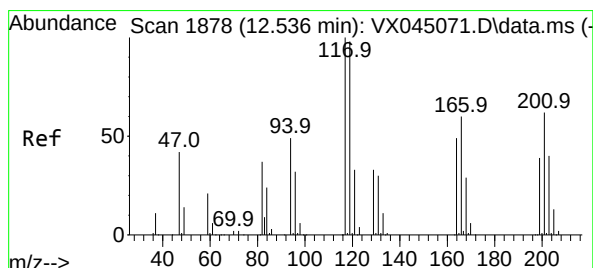
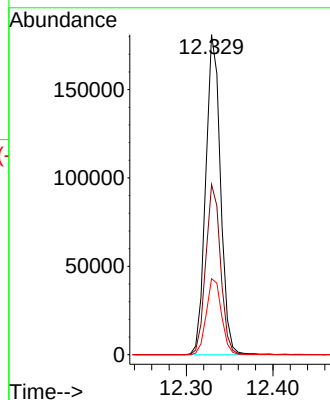
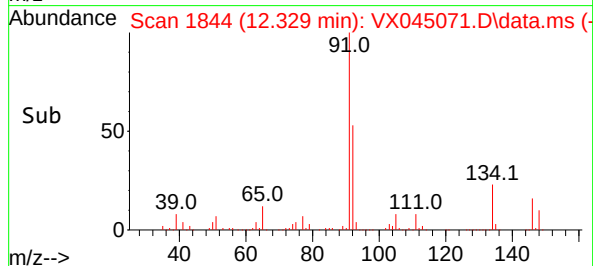
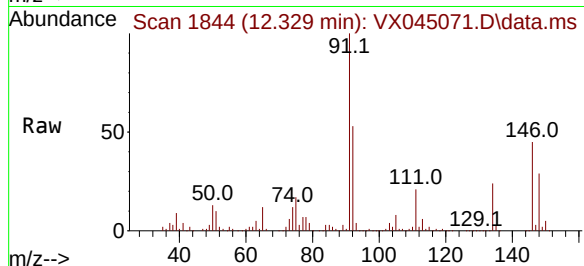
134 24.4 12.2 36.6

Manual Integrations

APPROVED

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

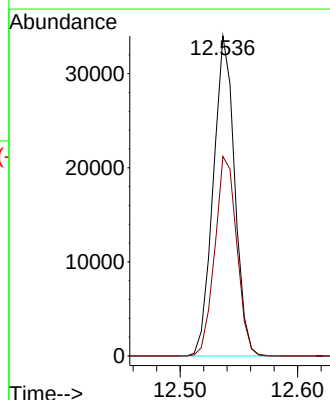
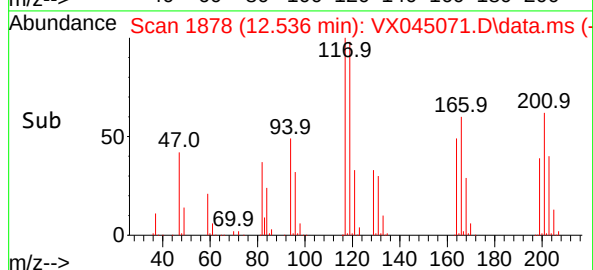
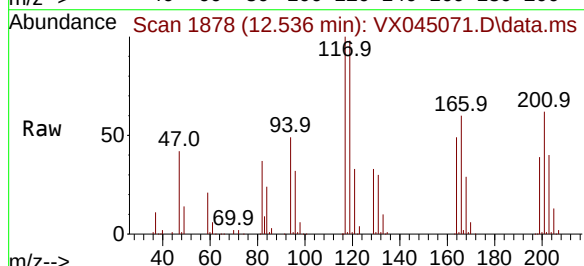
Acq: 28 Feb 2025 03:00

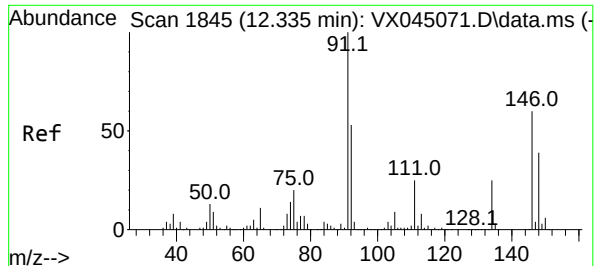
Tgt Ion:117 Resp: 43086

Ion Ratio Lower Upper

117 100

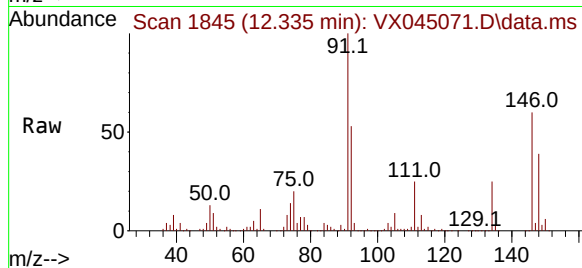
201 63.9 31.9 95.9





#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

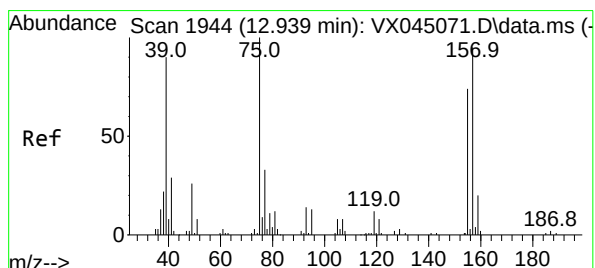
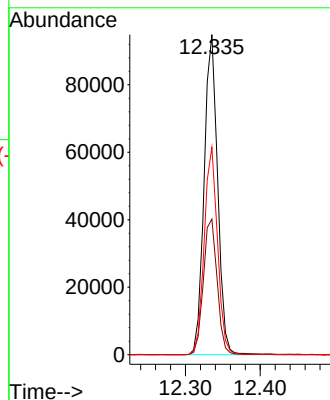
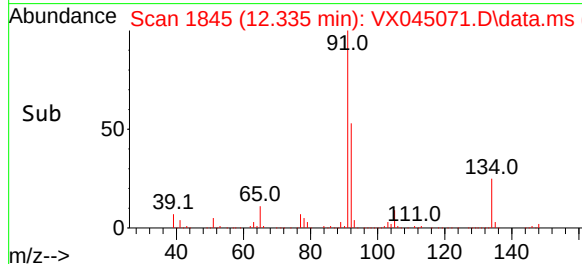
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



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

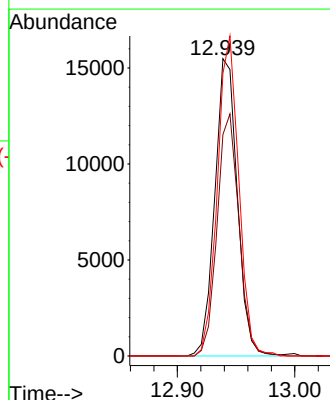
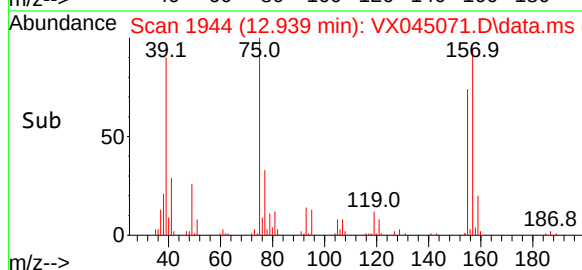
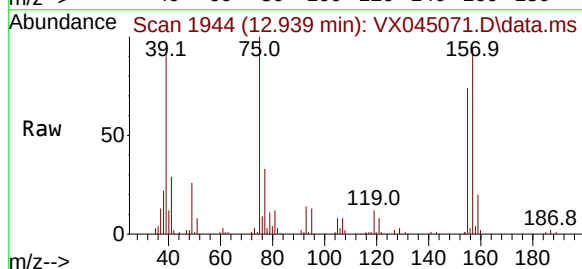
Manual Integrations
APPROVED

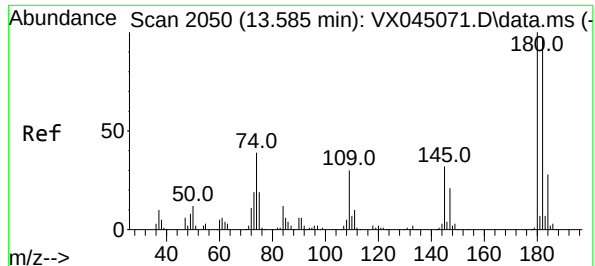
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

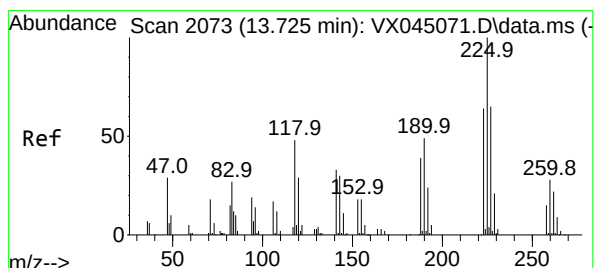
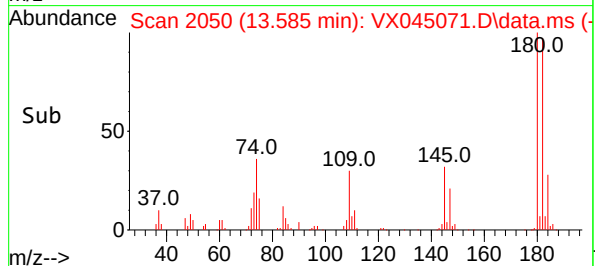
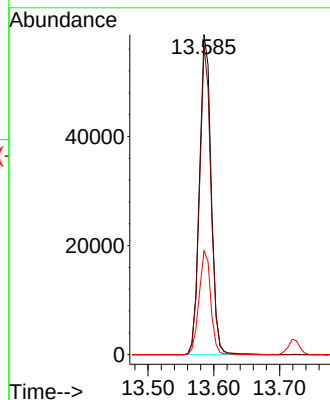
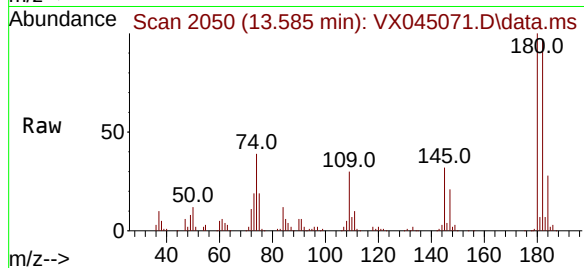
Tgt Ion:	180	Resp:	7189
Ion Ratio	Lower	Upper	
180	100		
182	94.6	47.3	141.9
145	32.6	16.3	48.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#94

Hexachlorobutadiene

Concen: 49.245 ug/l

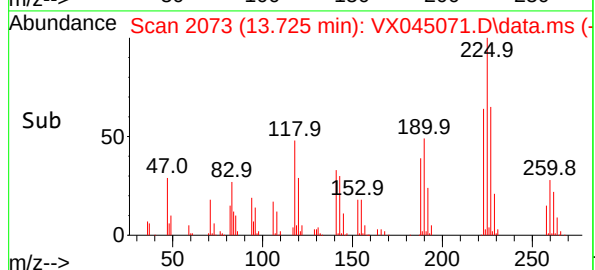
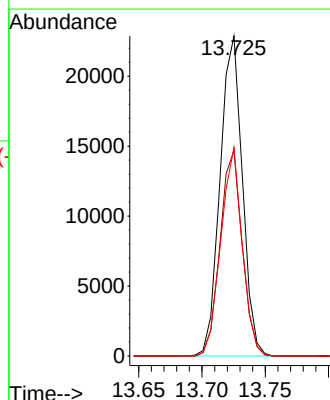
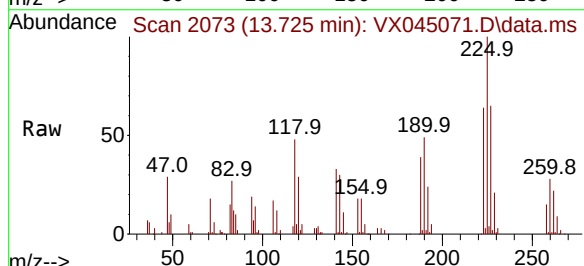
RT: 13.725 min Scan# 2073

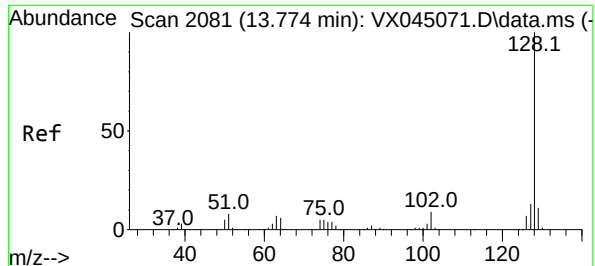
Delta R.T. 0.000 min

Lab File: VX045071.D

Acq: 28 Feb 2025 03:00

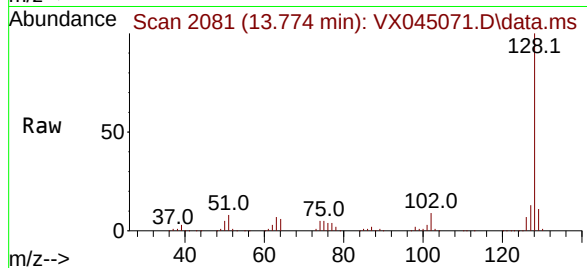
Tgt Ion:	225	Resp:	27916
Ion Ratio	Lower	Upper	
225	100		
223	63.8	31.9	95.7
227	62.7	31.4	94.0





#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

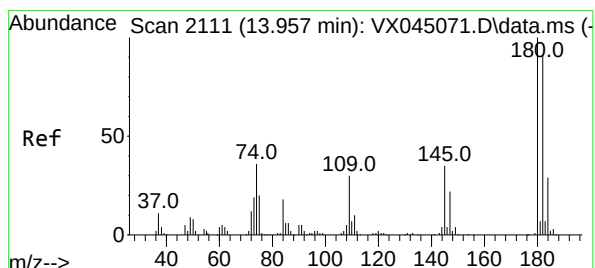
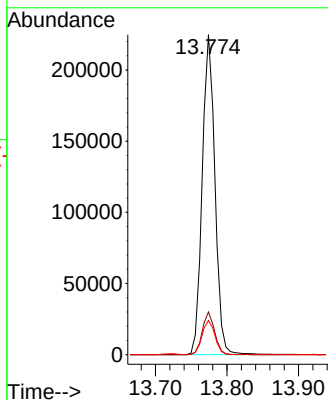
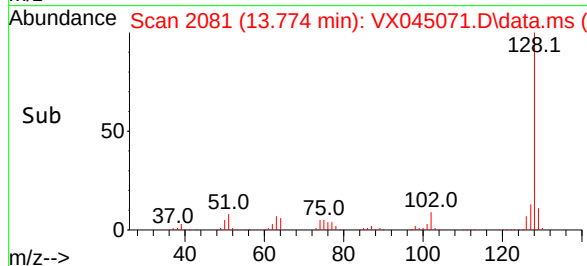
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



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

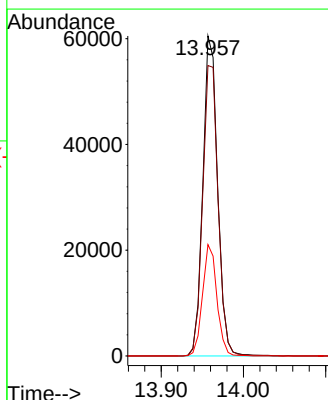
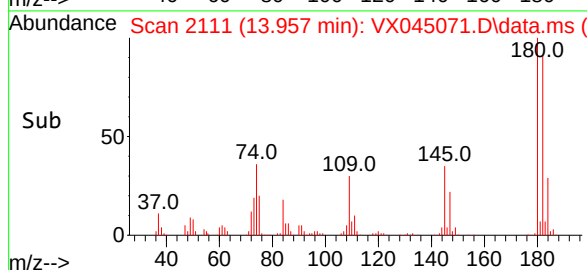
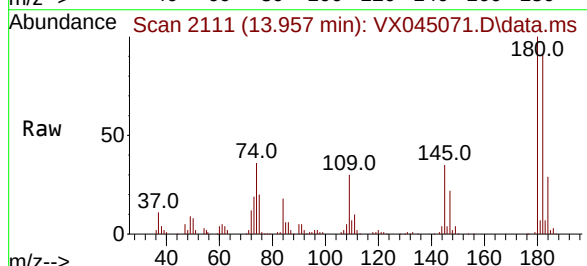
Manual Integrations
APPROVED

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

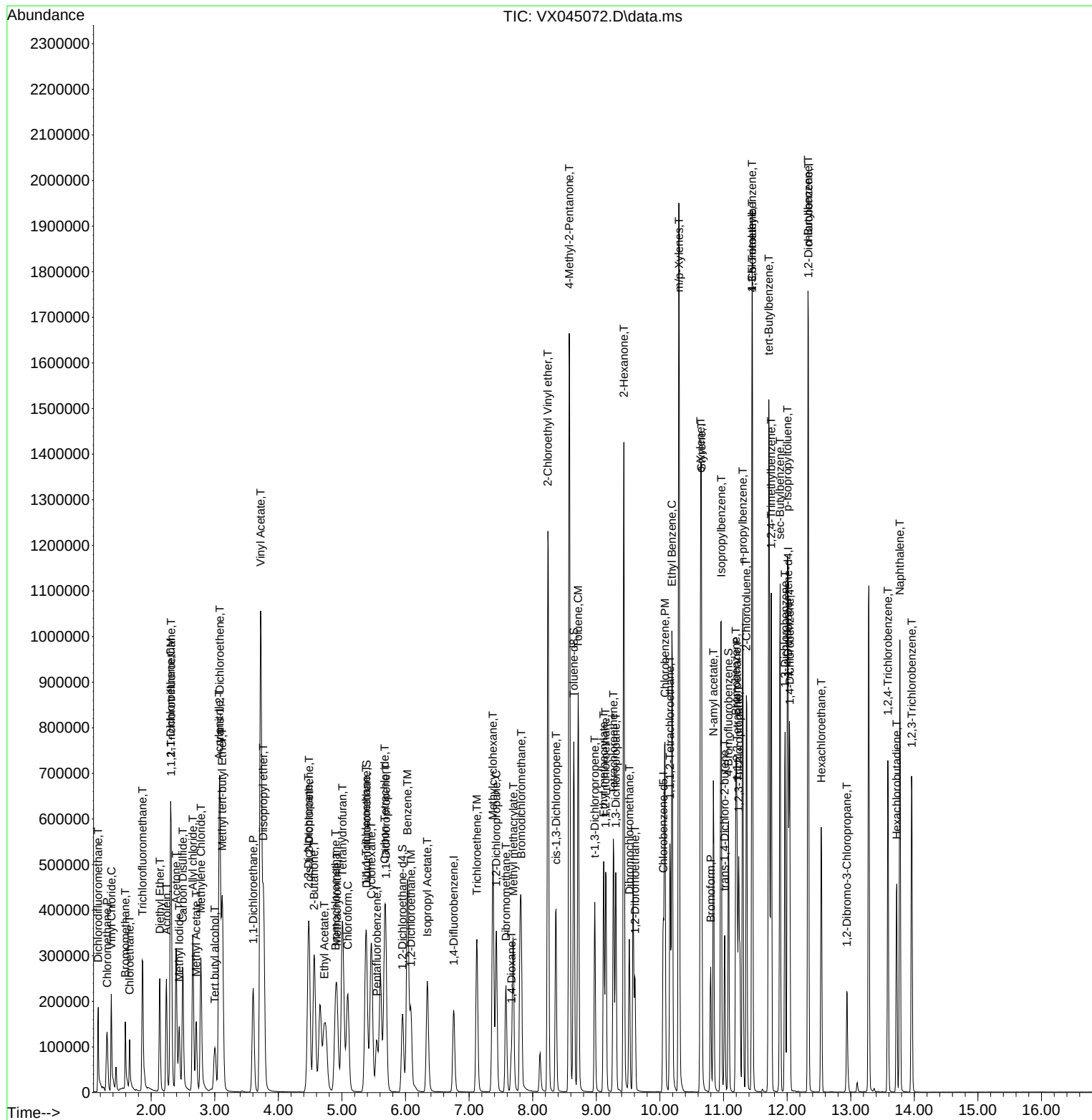
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

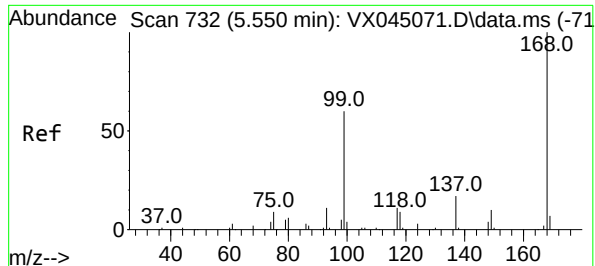
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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





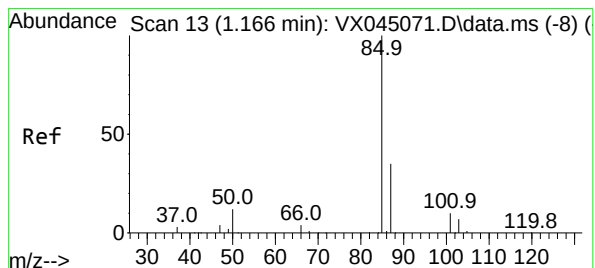
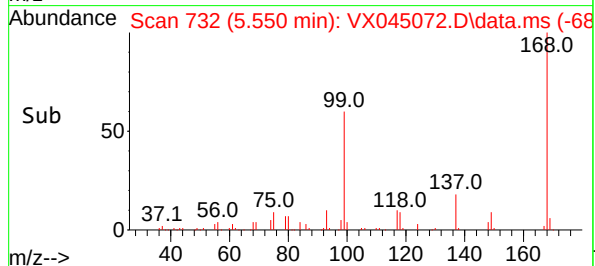
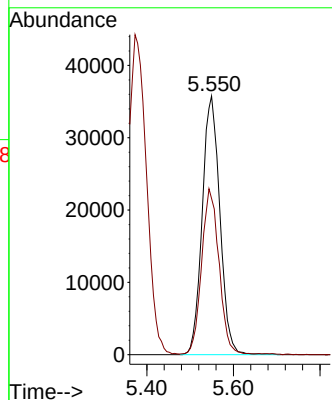
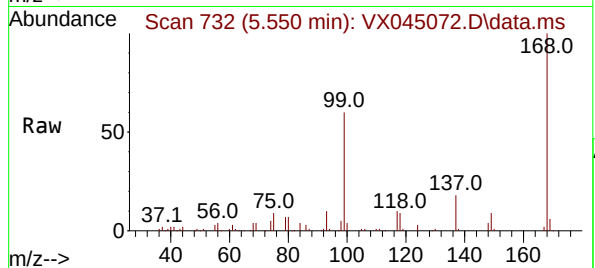
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

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

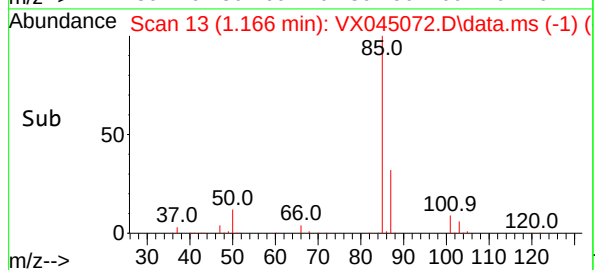
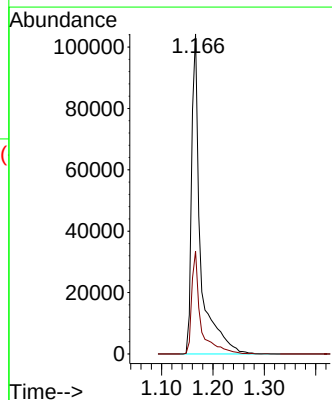
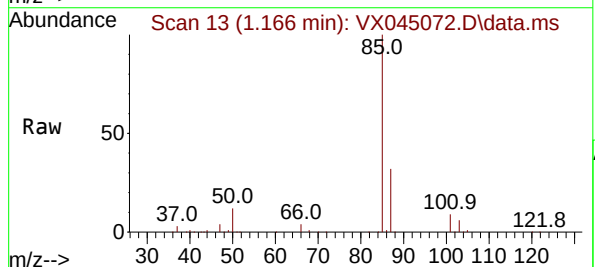
Manual Integrations
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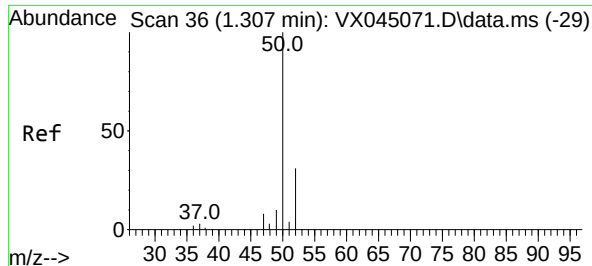
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

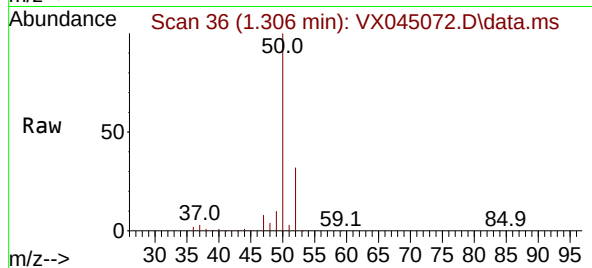
Tgt Ion: 85 Resp: 126718
Ion Ratio Lower Upper
85 100
87 32.1 17.4 52.3





#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

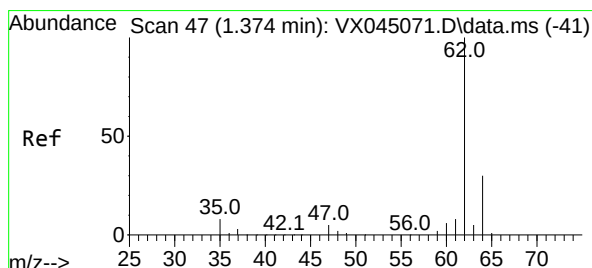
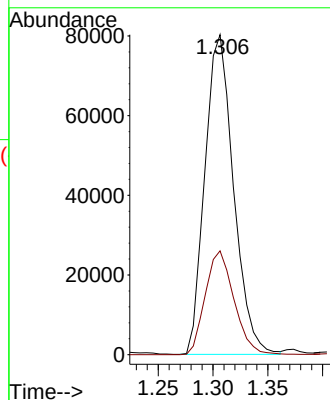
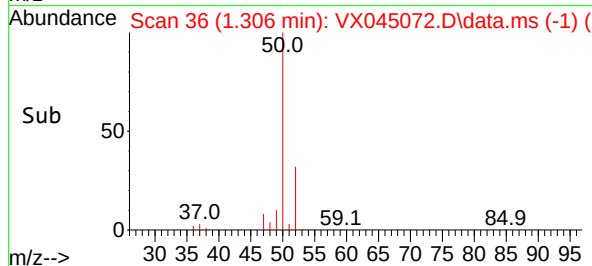
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



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

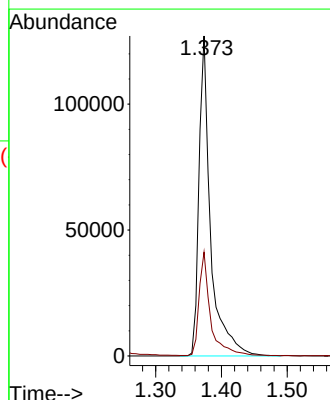
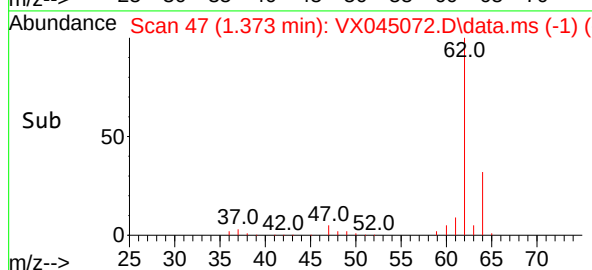
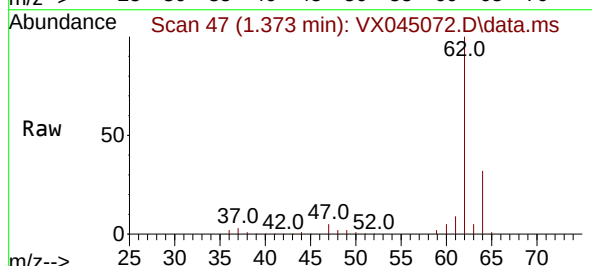
Manual Integrations
APPROVED

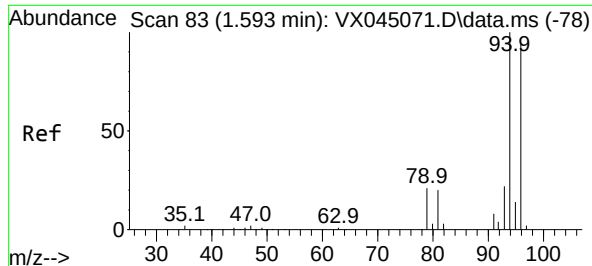
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





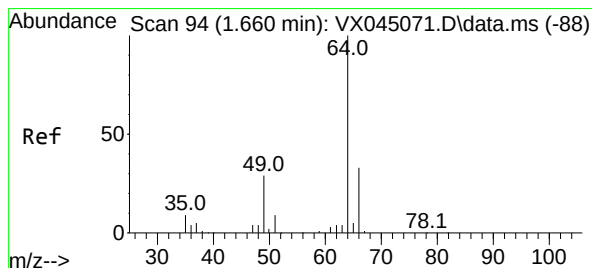
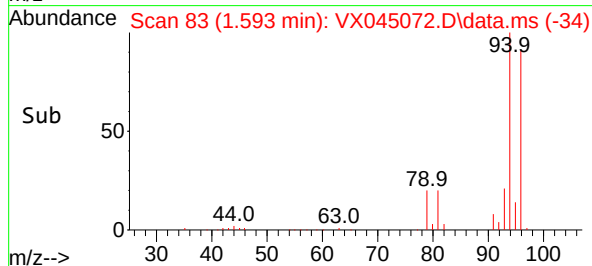
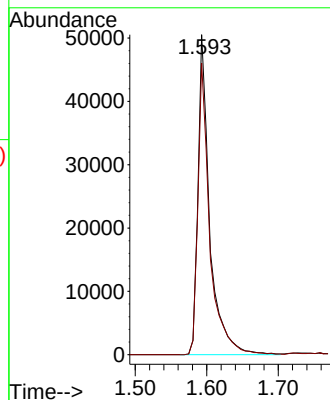
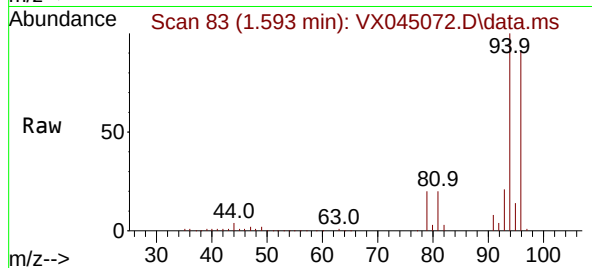
#5
Bromomethane
Concen: 110.980 ug/l
RT: 1.593 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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

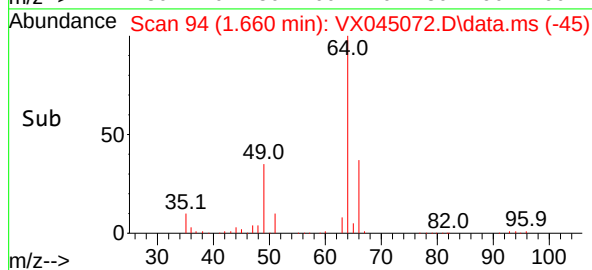
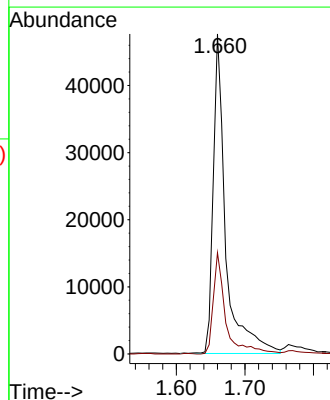
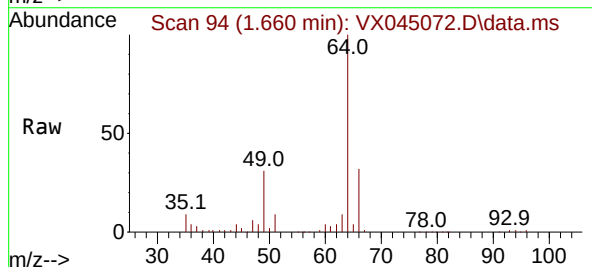
Manual Integrations
APPROVED

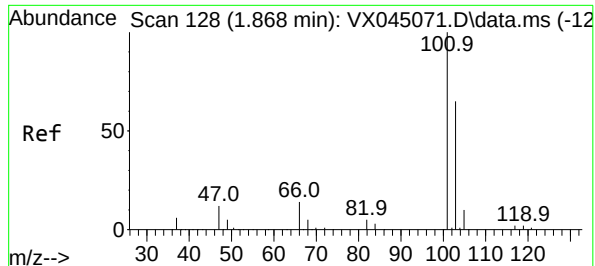
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

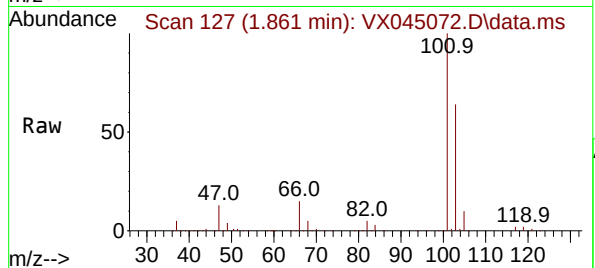
Tgt Ion: 64 Resp: 60155
Ion Ratio Lower Upper
64 100
66 31.7 26.7 40.1





#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

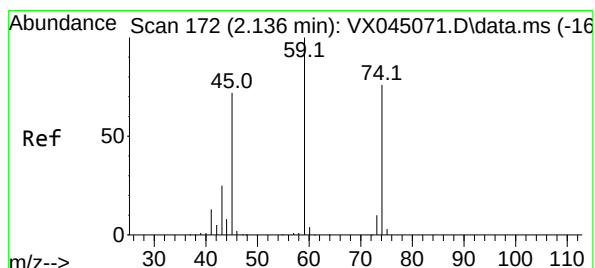
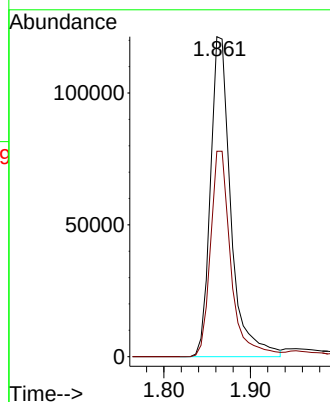
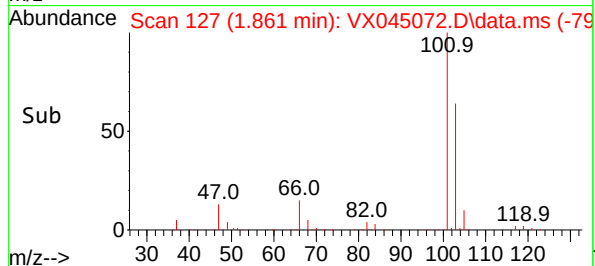
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



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

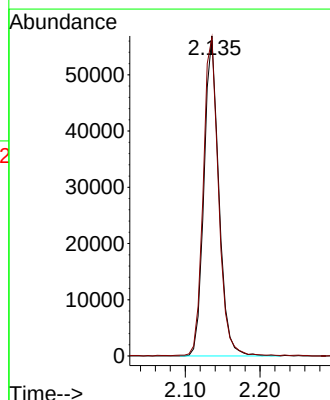
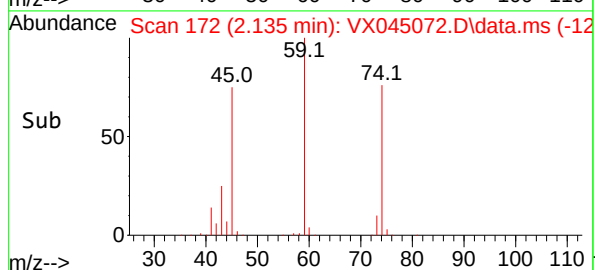
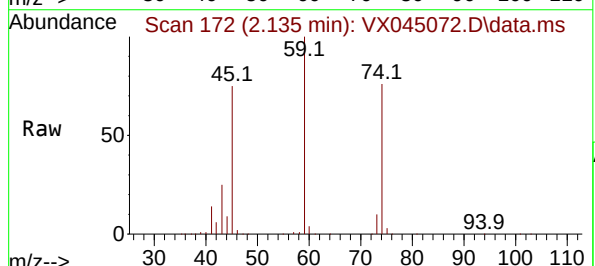
Manual Integrations
APPROVED

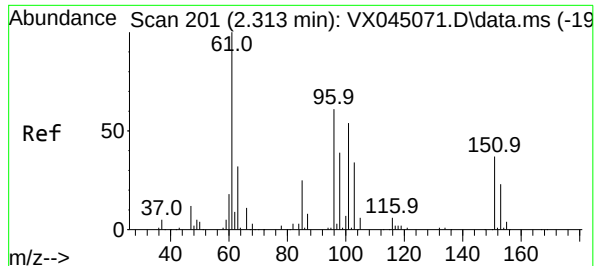
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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 :

VSTDICC100

Tgt Ion:101 Resp: 120518

Ion Ratio Lower Upper

101 100

85 46.5 36.2 54.4

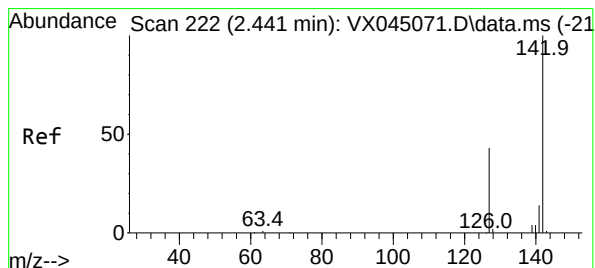
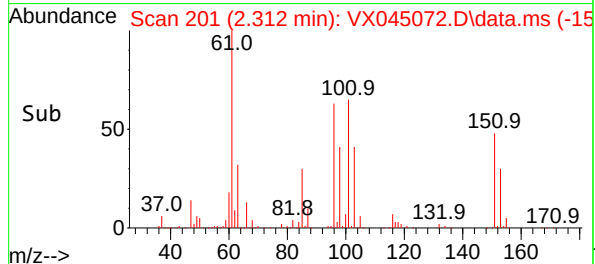
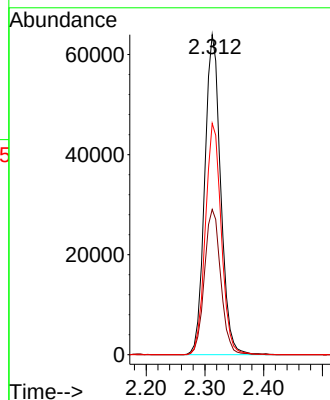
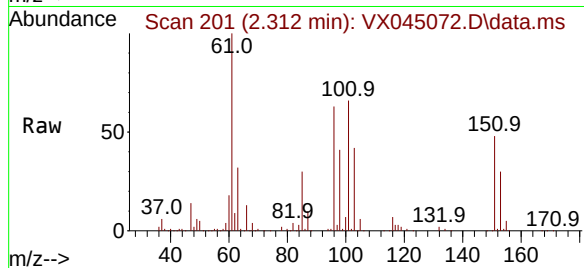
151 72.4 56.4 84.6

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

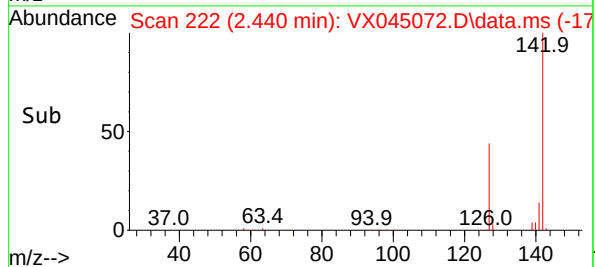
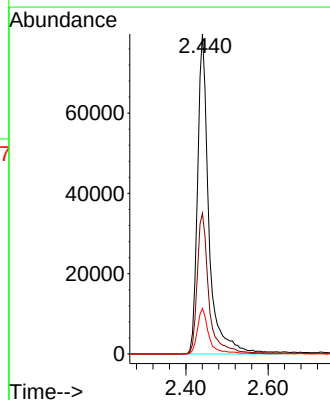
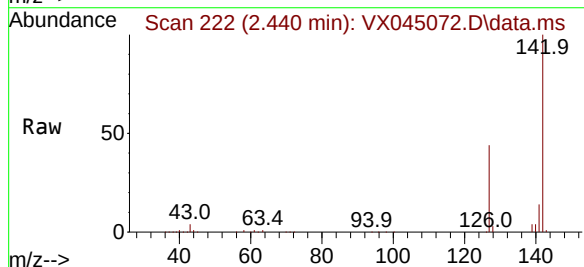
Tgt Ion:142 Resp: 153466

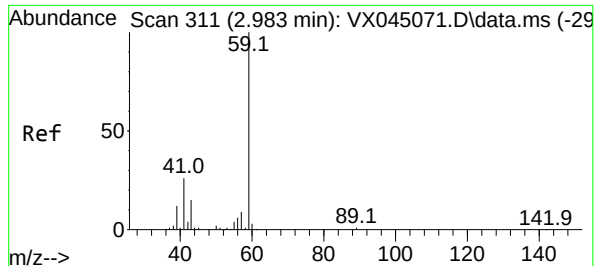
Ion Ratio Lower Upper

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

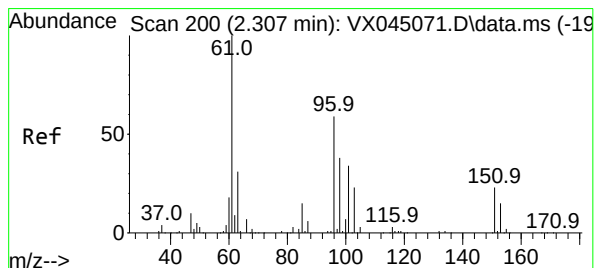
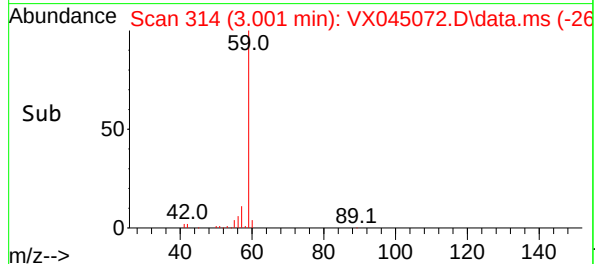
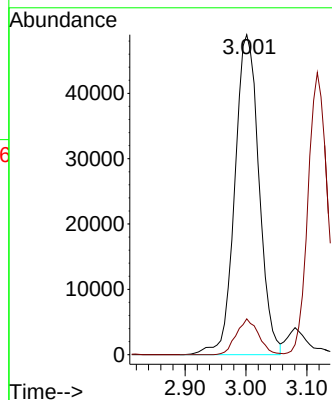
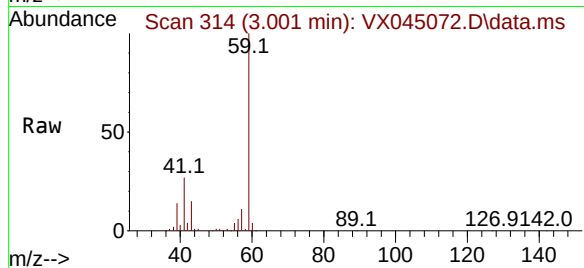
57 10.4 7.8 11.8

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

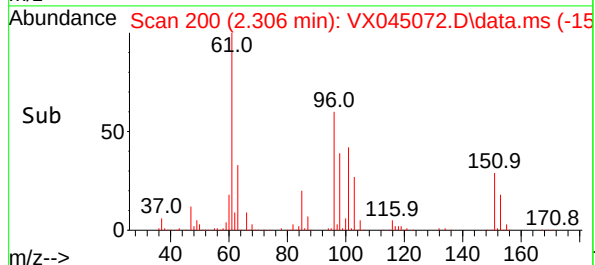
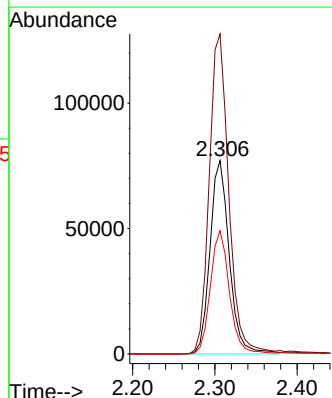
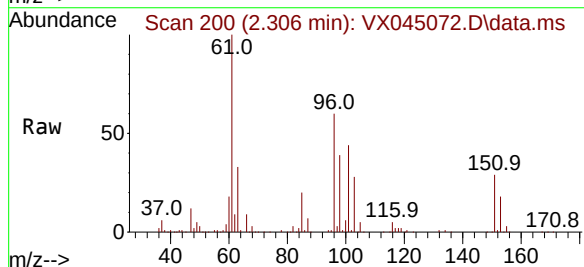
Tgt Ion: 96 Resp: 125436

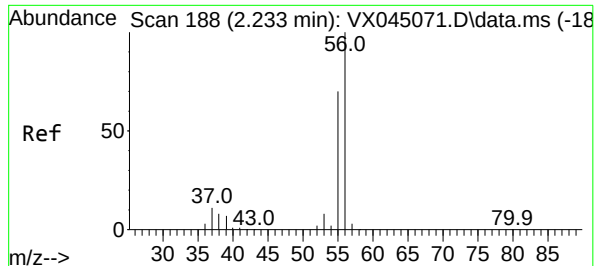
Ion Ratio Lower Upper

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

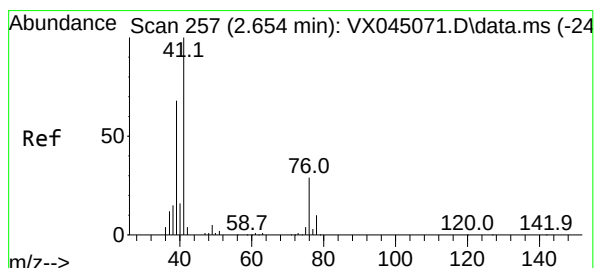
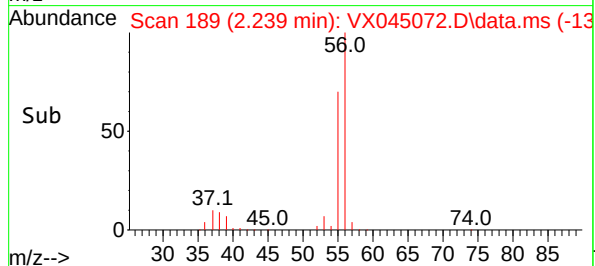
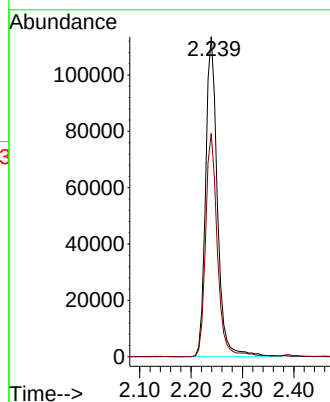
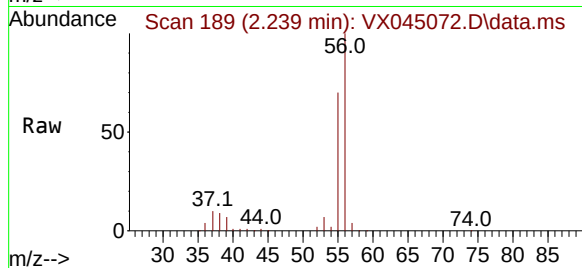
55 69.8 56.2 84.4

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

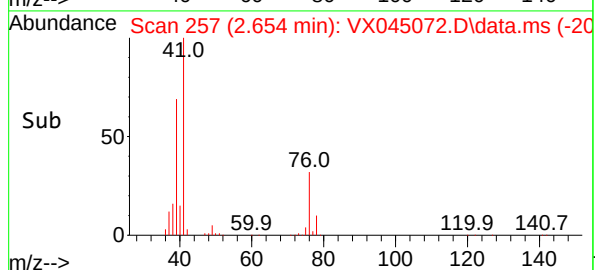
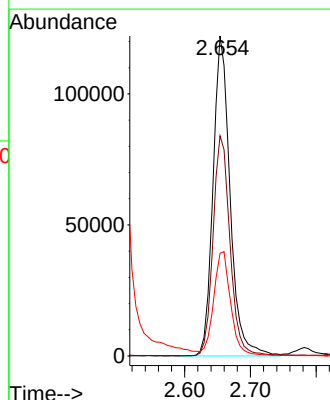
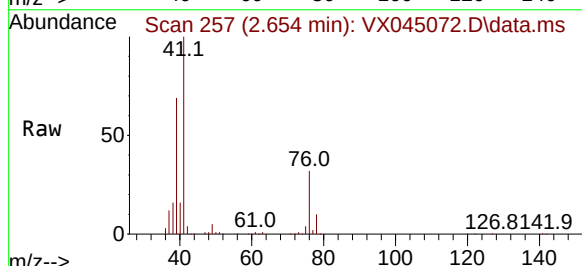
Tgt Ion: 41 Resp: 220783

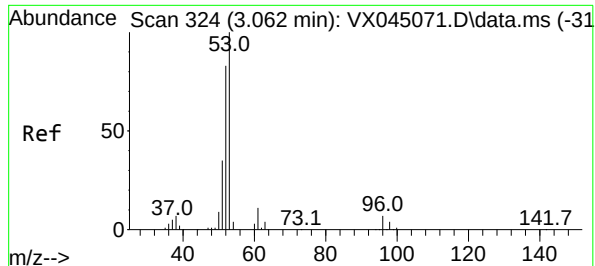
Ion Ratio Lower Upper

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 :

VSTDIC100

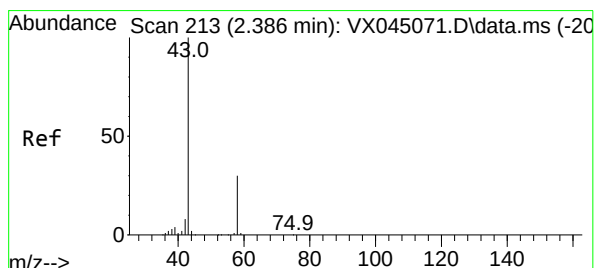
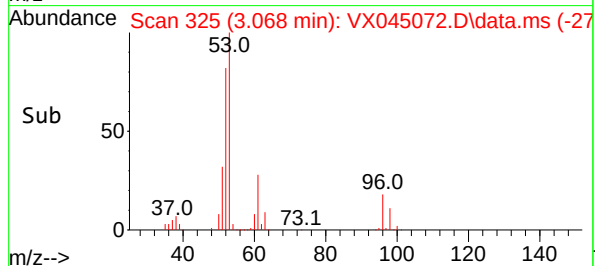
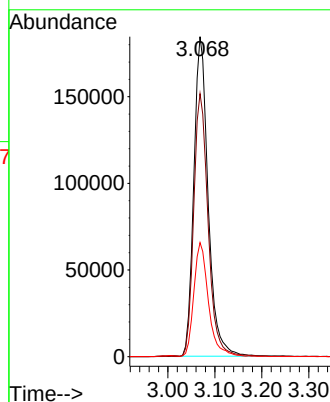
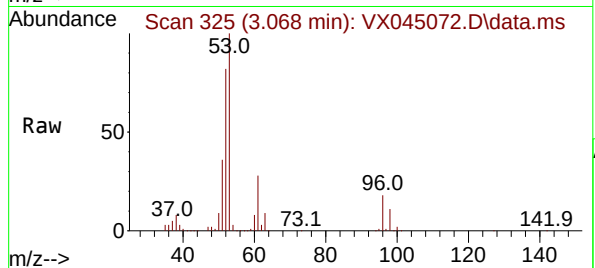
Tgt Ion:	53	Resp:	391940
Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.2	99.2
51	36.6	29.0	43.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#16

Acetone

Concen: 566.991 ug/l

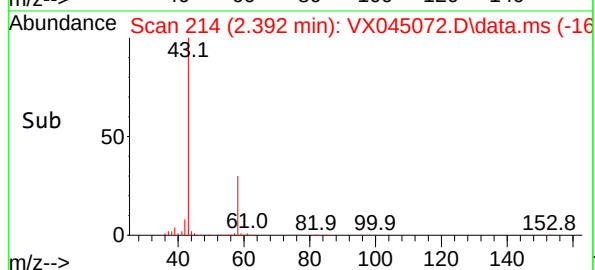
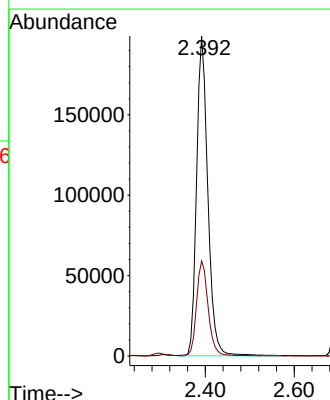
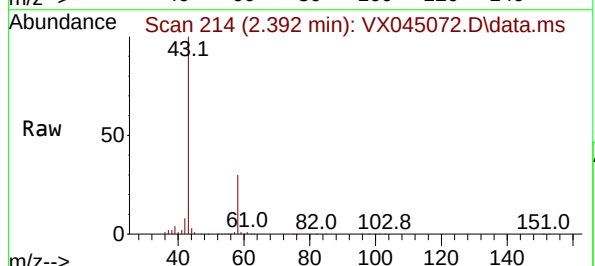
RT: 2.392 min Scan# 214

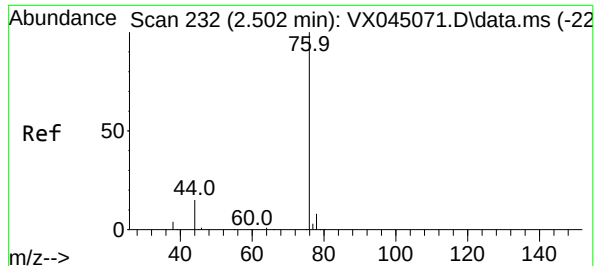
Delta R.T. 0.006 min

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

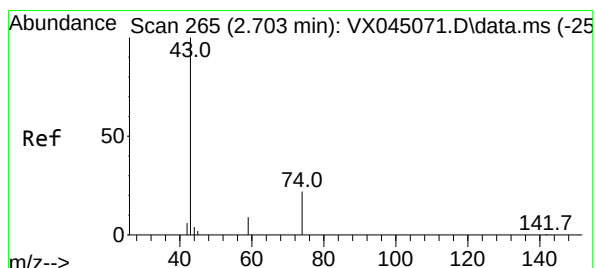
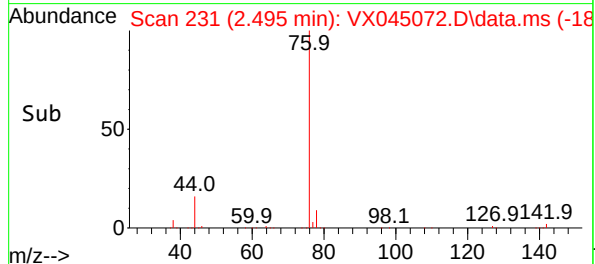
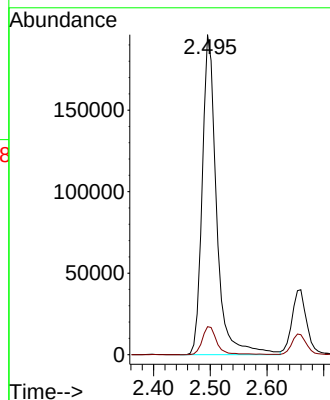
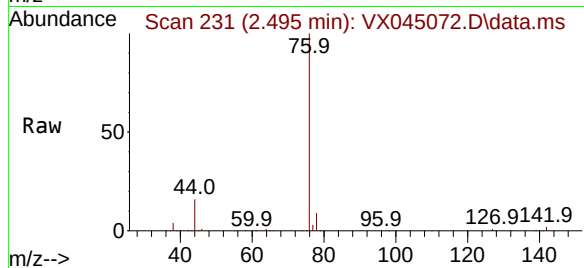
78 8.7 6.6 9.8

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

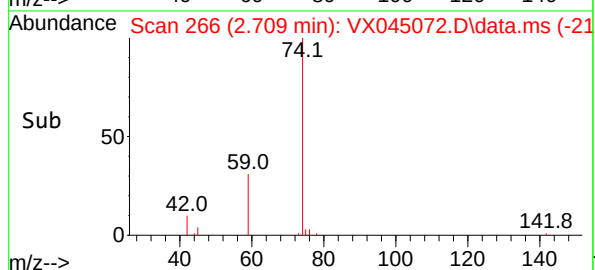
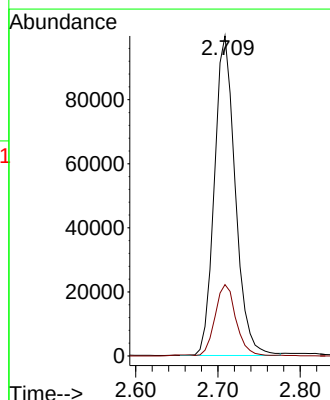
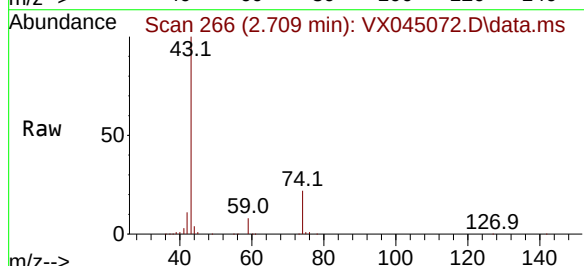
Acq: 28 Feb 2025 03:23

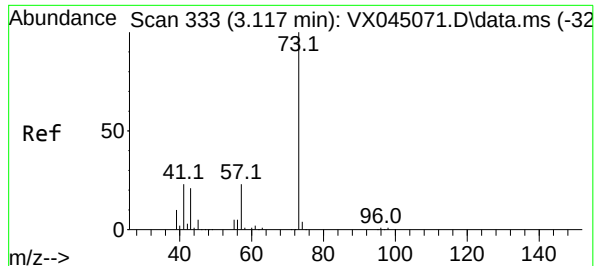
Tgt Ion: 43 Resp: 175784

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# 311

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

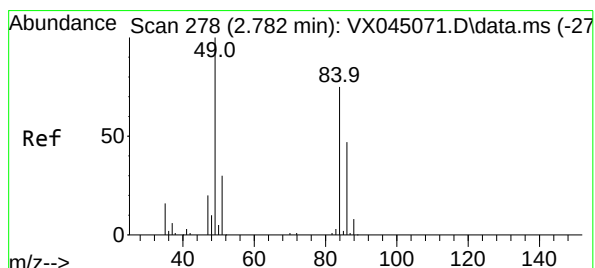
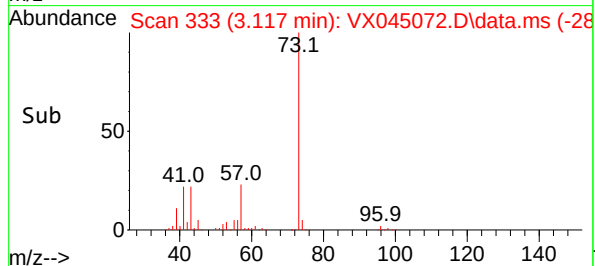
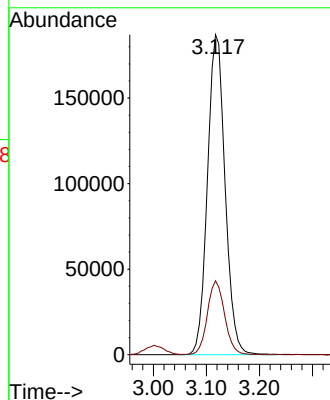
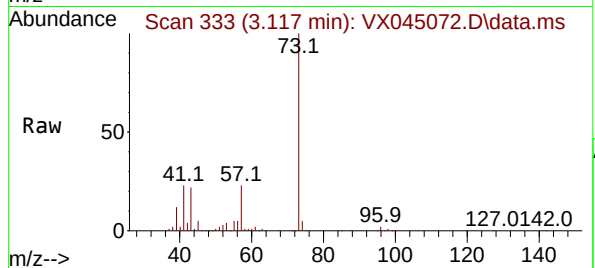
57 23.0 18.5 27.7

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

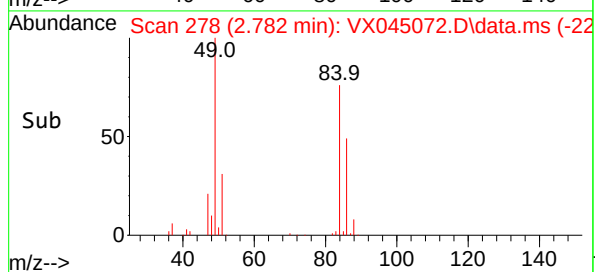
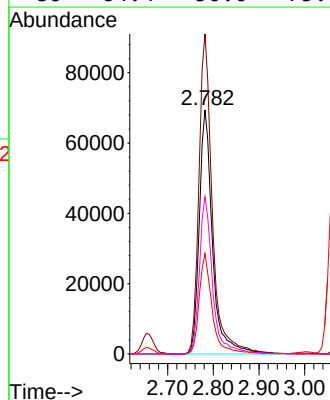
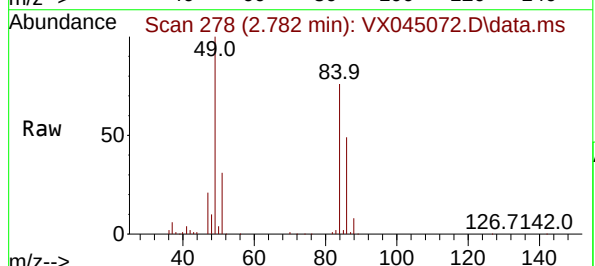
Ion Ratio Lower Upper

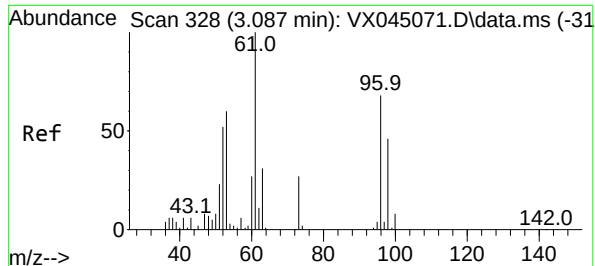
84 100

49 131.2 106.5 159.7

51 41.2 32.1 48.1

86 64.4 50.0 75.0





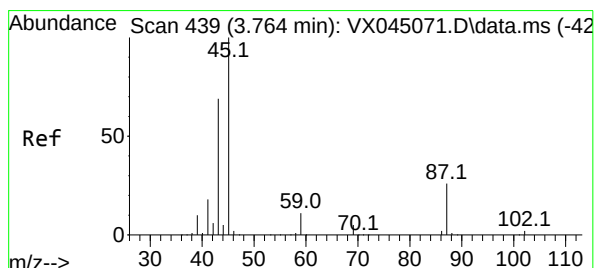
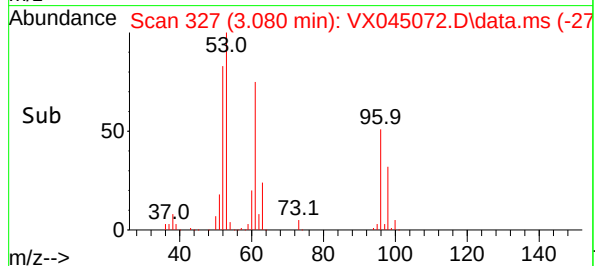
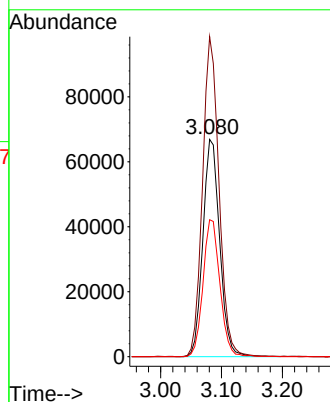
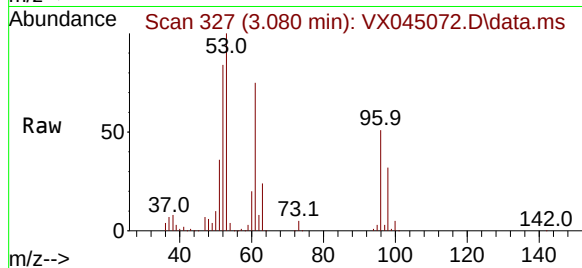
#21
trans-1,2-Dichloroethene
Concen: 100.164 ug/l
RT: 3.080 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

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

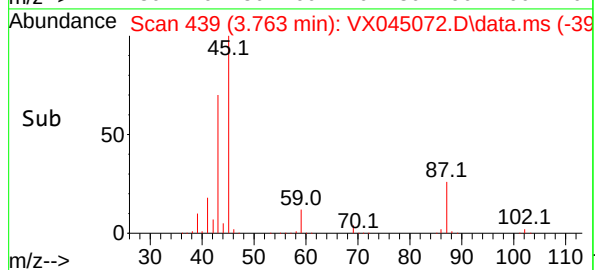
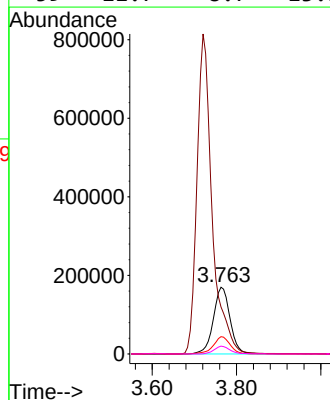
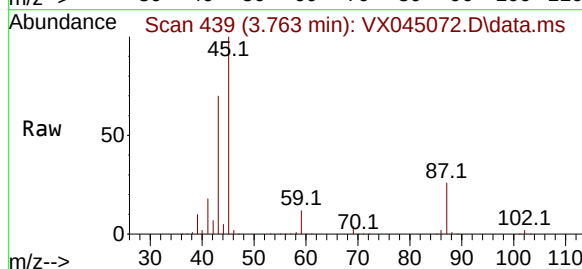
Manual Integrations
APPROVED

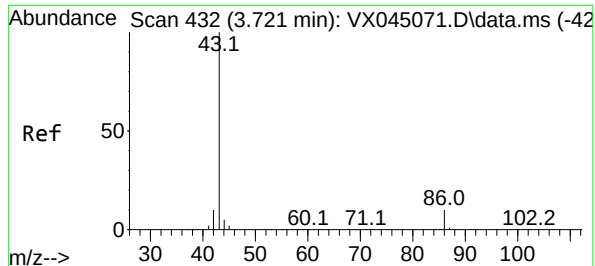
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





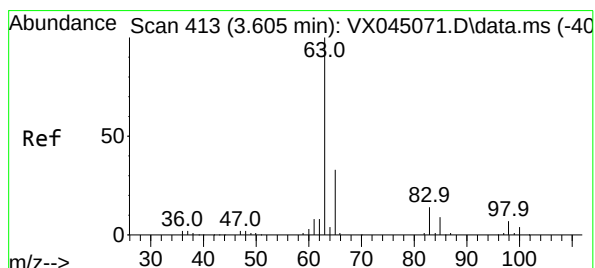
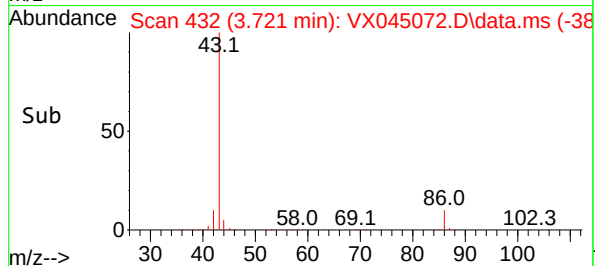
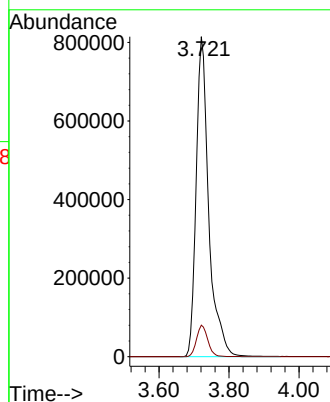
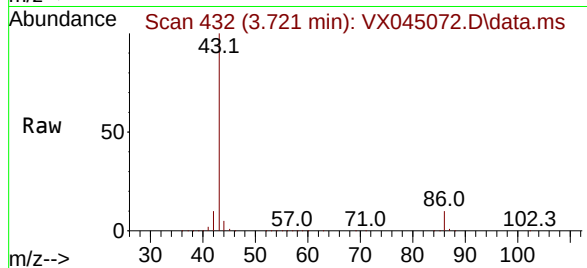
#23
Vinyl Acetate
Concen: 554.219 ug/l
RT: 3.721 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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

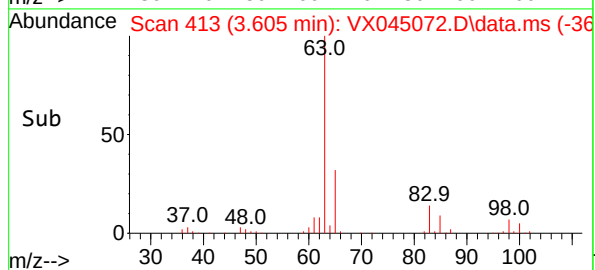
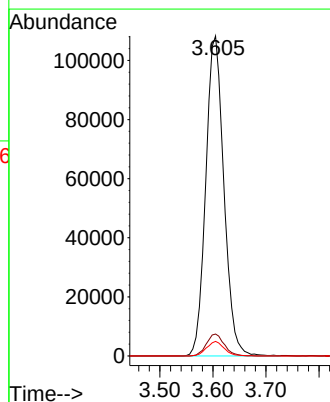
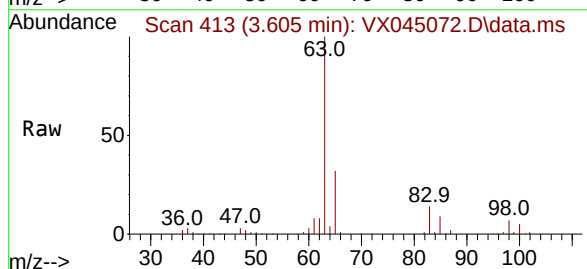
Manual Integrations
APPROVED

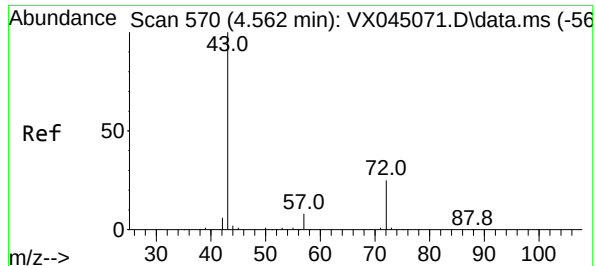
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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# 51

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

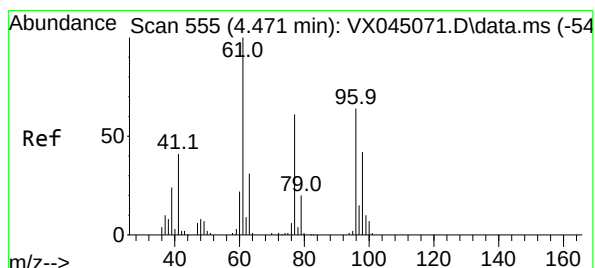
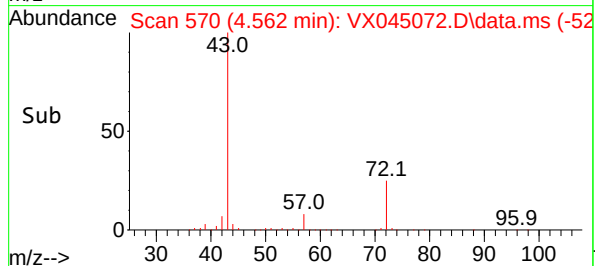
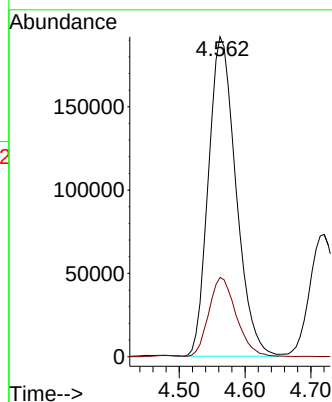
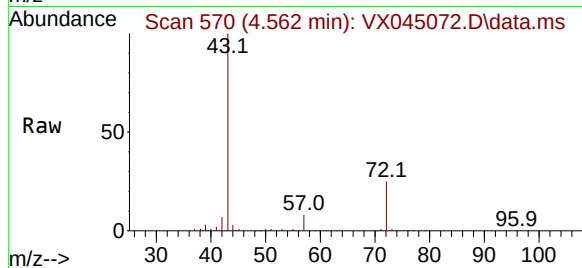
72 24.6 20.0 30.0

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

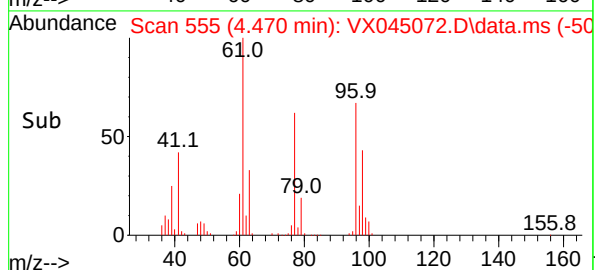
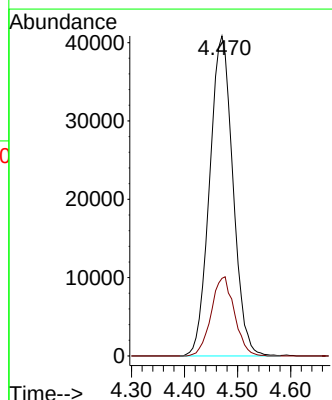
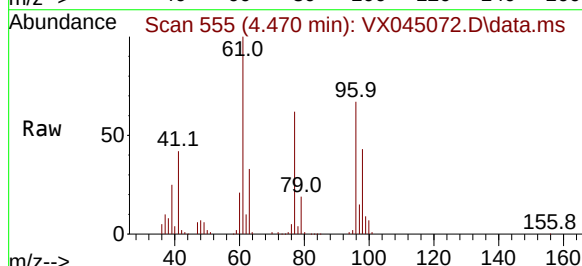
Acq: 28 Feb 2025 03:23

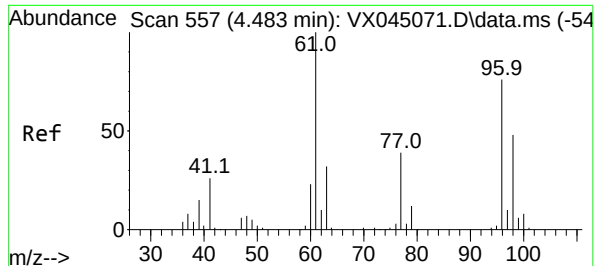
Tgt Ion: 77 Resp: 124805

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

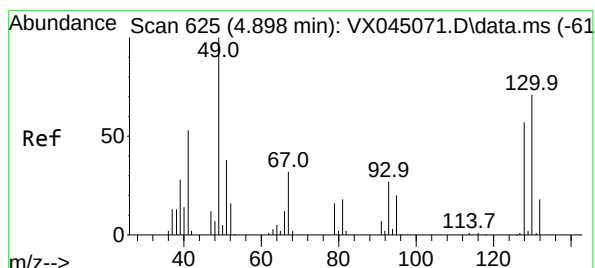
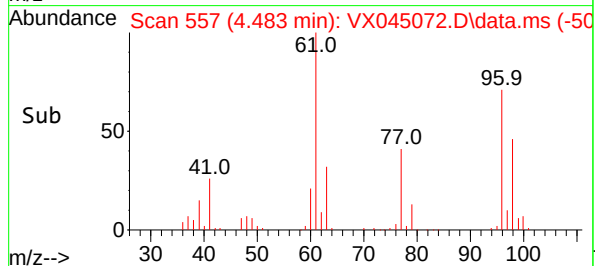
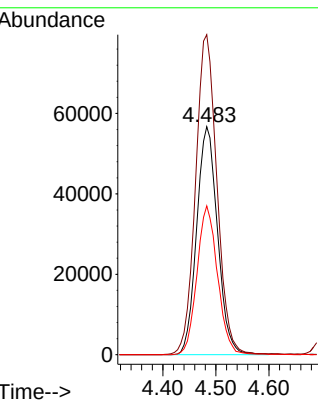
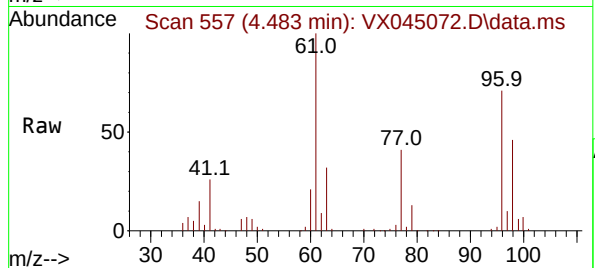
98 64.3 0.0 128.0

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

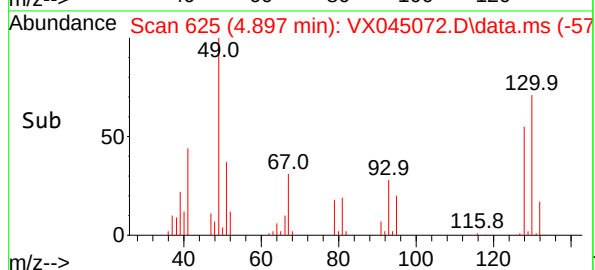
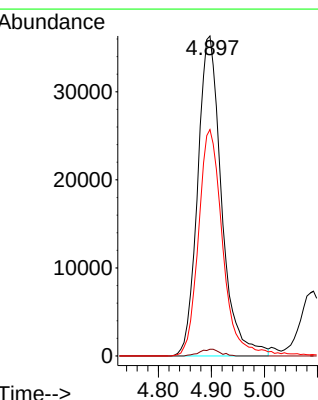
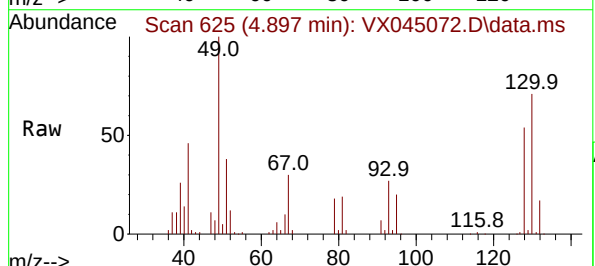
Tgt Ion: 49 Resp: 113848

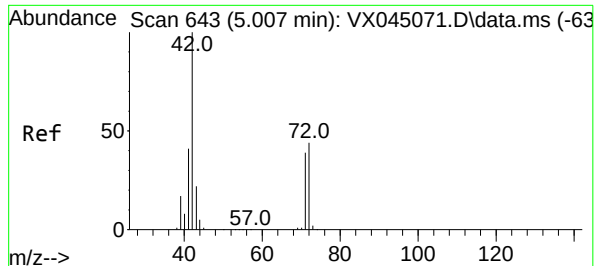
Ion Ratio Lower Upper

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 :

VSTDIC100

Tgt Ion: 42 Resp: 36556

Ion Ratio Lower Upper

42 100

72 42.1 34.1 51.1

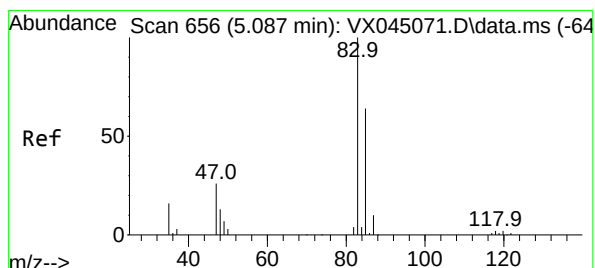
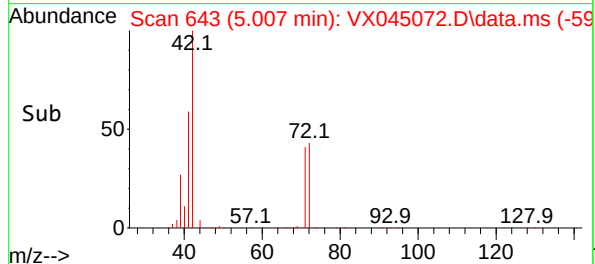
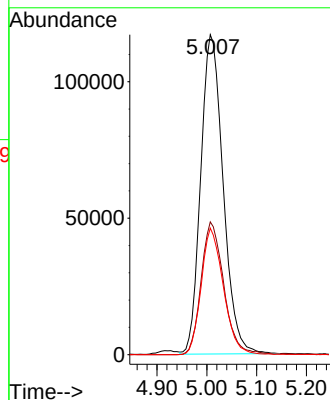
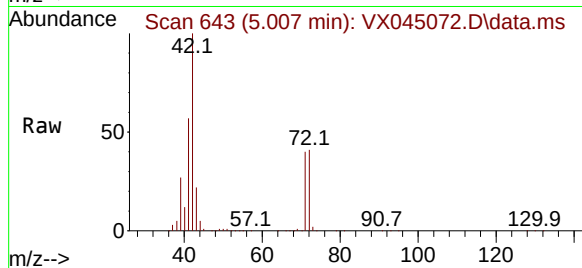
71 39.2 31.4 47.0

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

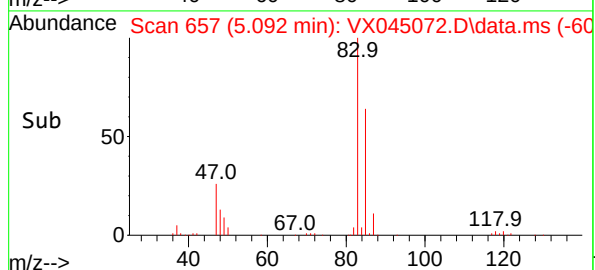
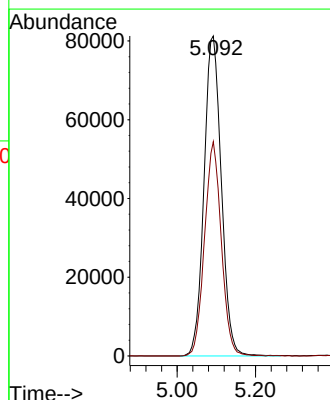
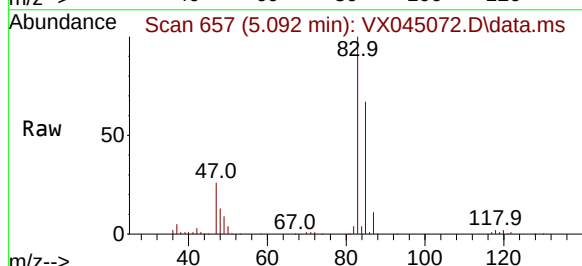
Acq: 28 Feb 2025 03:23

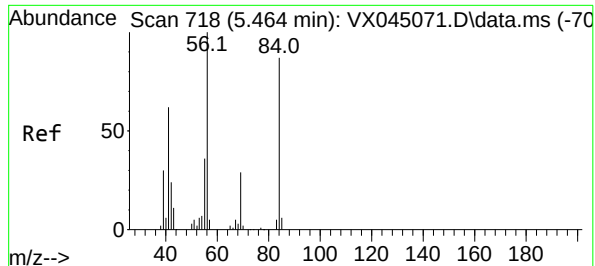
Tgt Ion: 83 Resp: 248978

Ion Ratio Lower Upper

83 100

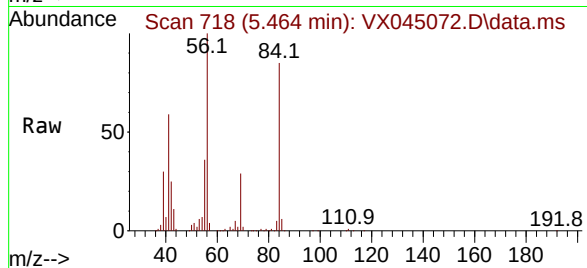
85 66.9 51.4 77.2





#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

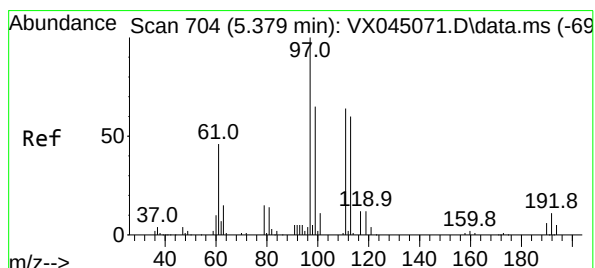
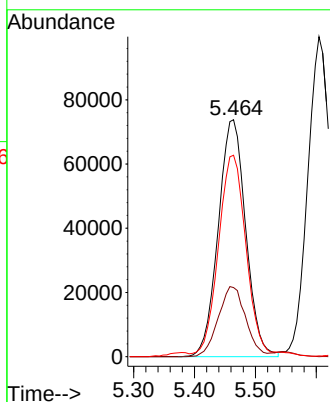
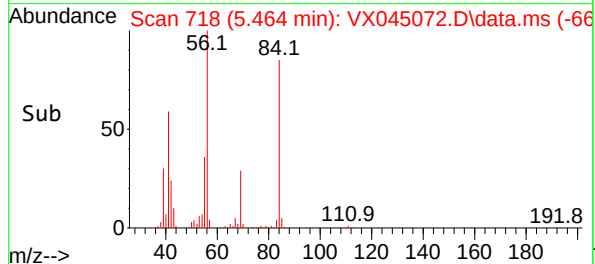
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



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

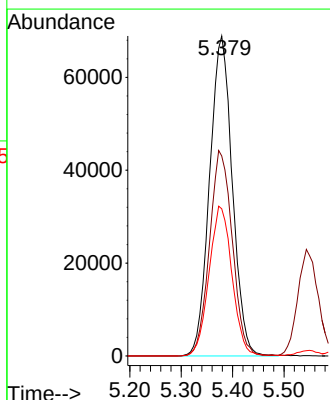
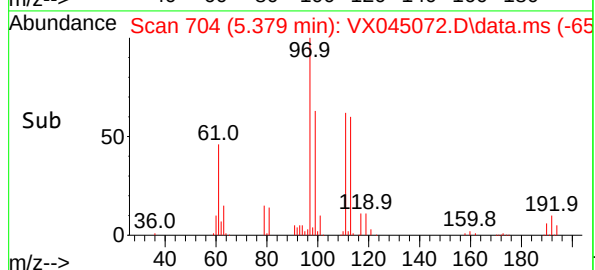
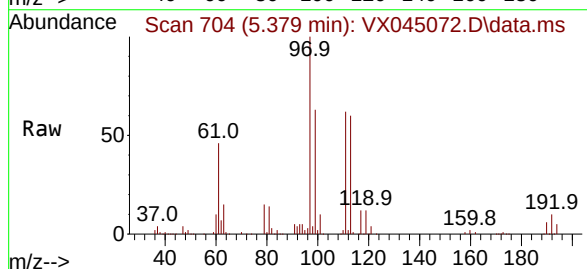
Manual Integrations
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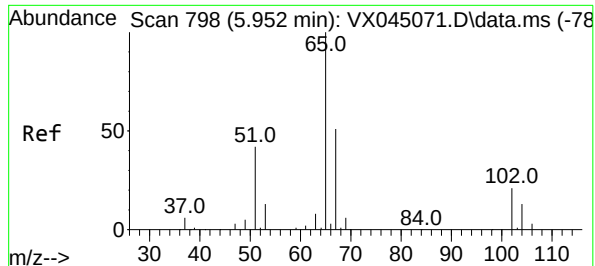
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

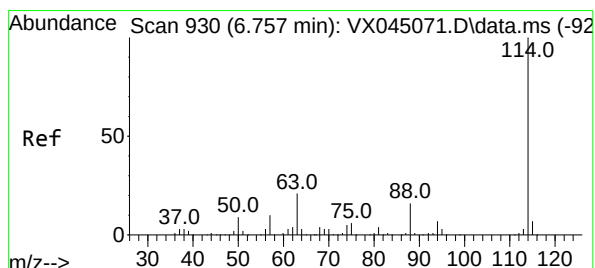
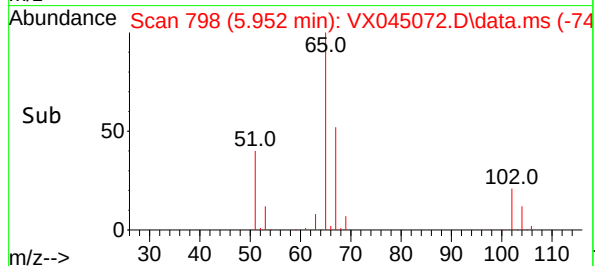
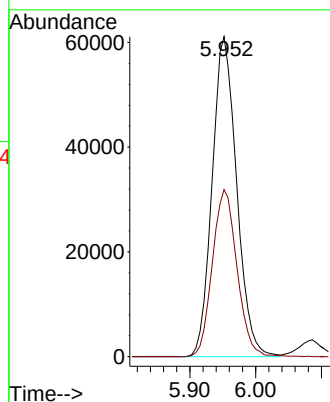
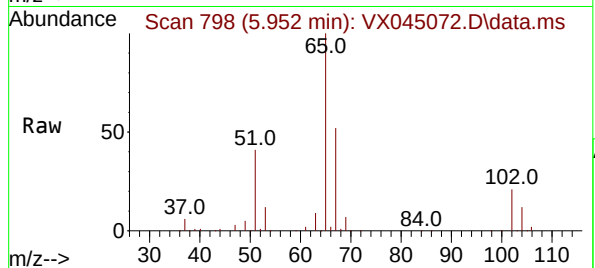
67 52.5 0.0 106.2

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

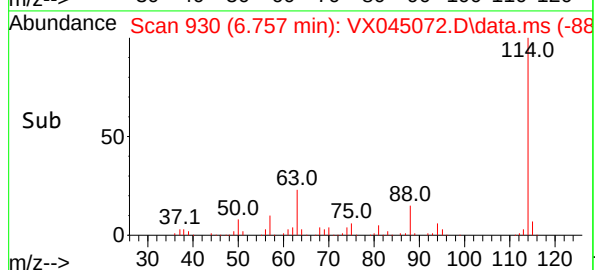
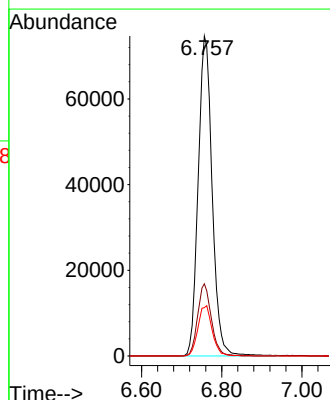
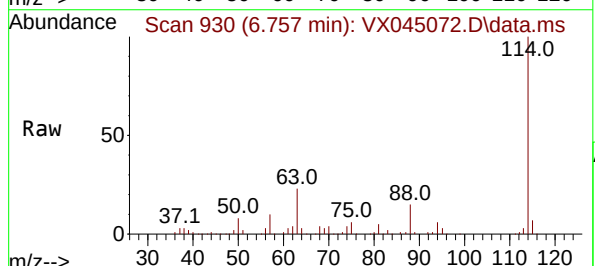
Tgt Ion:114 Resp: 181031

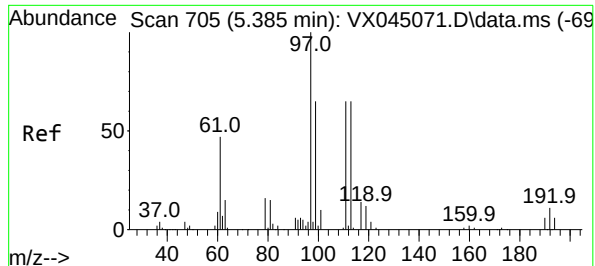
Ion Ratio Lower Upper

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

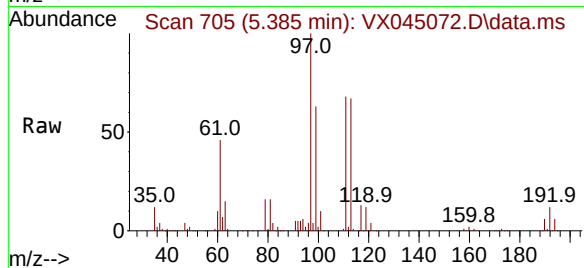
Acq: 28 Feb 2025 03:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100



Tgt Ion:113 Resp: 12318

Ion Ratio Lower Upper

113 100

111 102.1 81.8 122.6

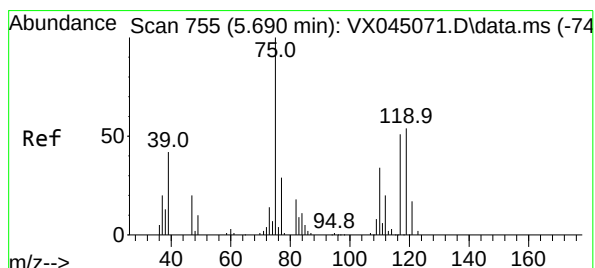
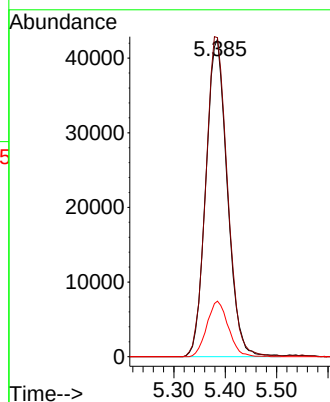
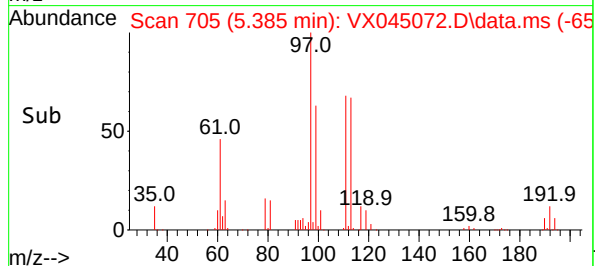
192 17.5 14.3 21.5

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

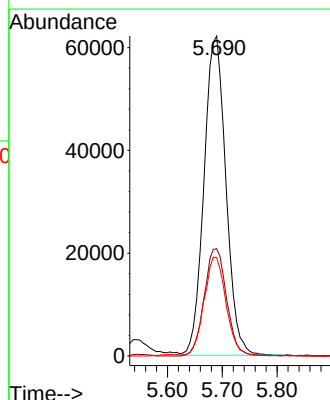
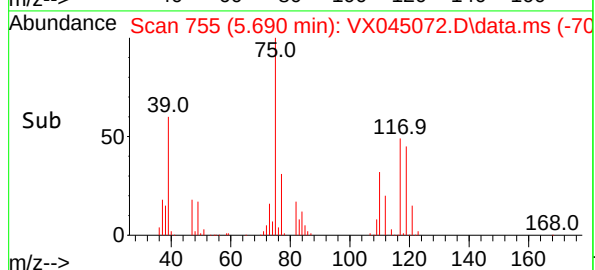
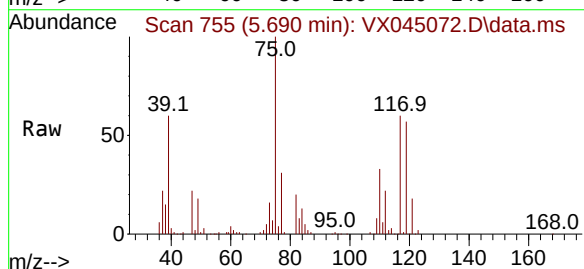
Tgt Ion: 75 Resp: 172295

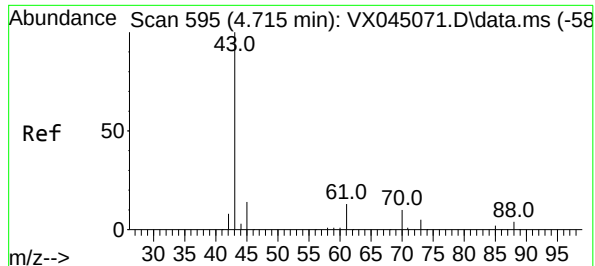
Ion Ratio Lower Upper

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# 595

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

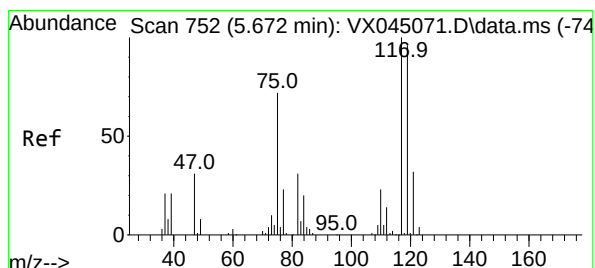
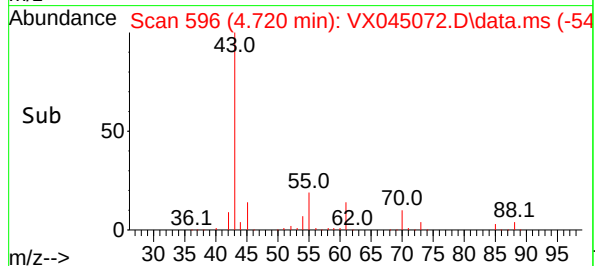
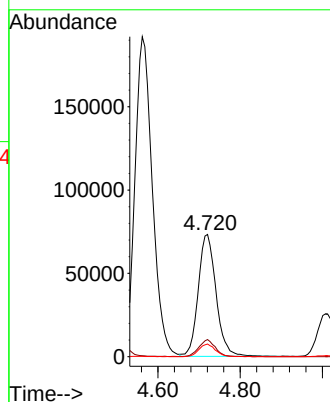
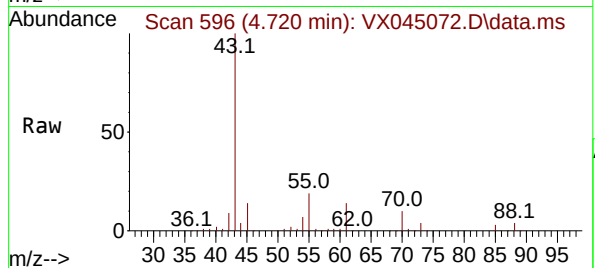
70 9.6 7.7 11.5

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

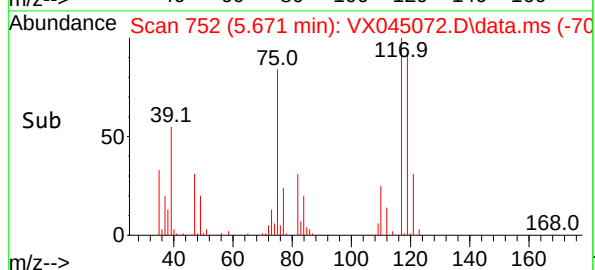
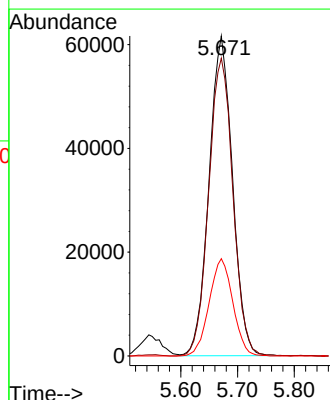
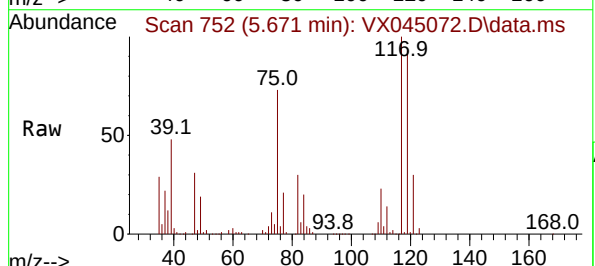
Tgt Ion:117 Resp: 177219

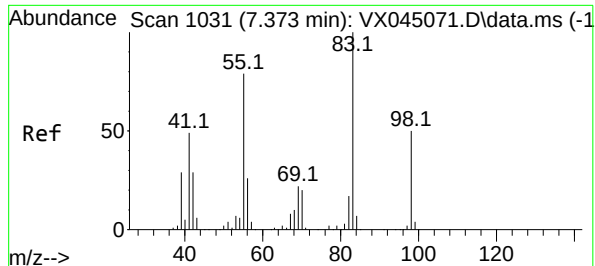
Ion Ratio Lower Upper

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 :

VSTDIC100

Tgt Ion: 83 Resp: 219850

Ion Ratio Lower Upper

83 100

55 80.6 63.0 94.4

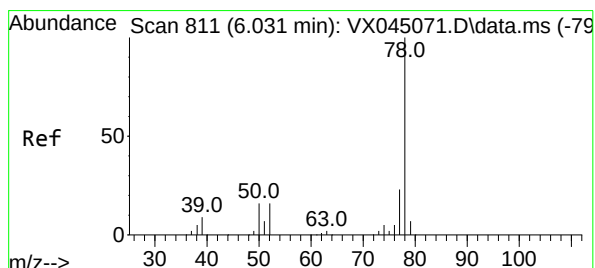
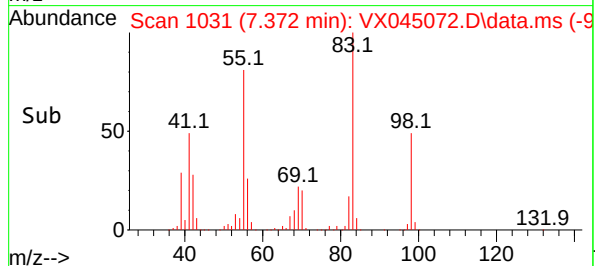
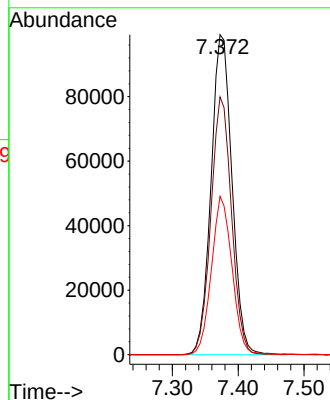
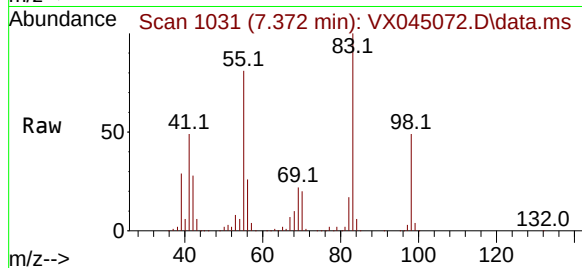
98 49.5 39.7 59.5

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

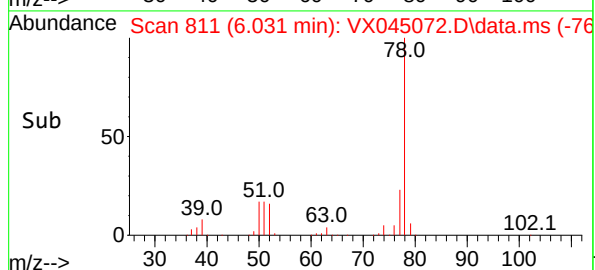
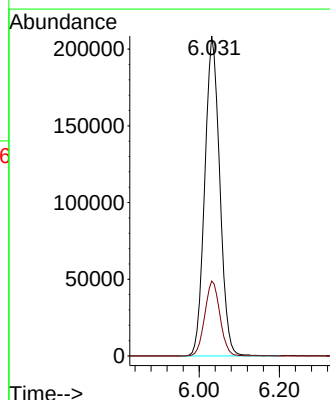
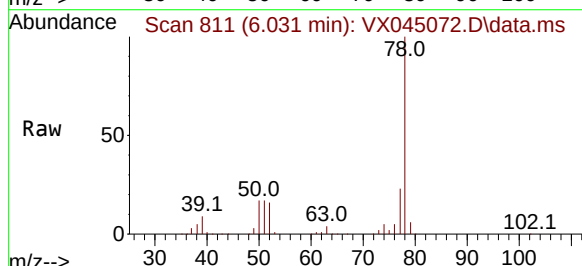
Acq: 28 Feb 2025 03:23

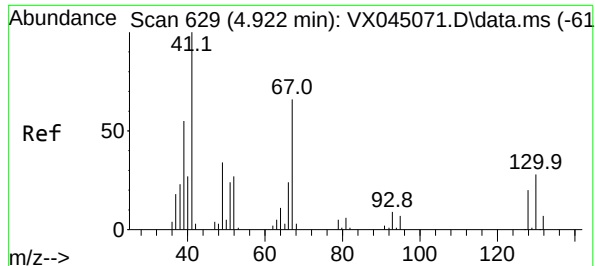
Tgt Ion: 78 Resp: 541974

Ion Ratio Lower Upper

78 100

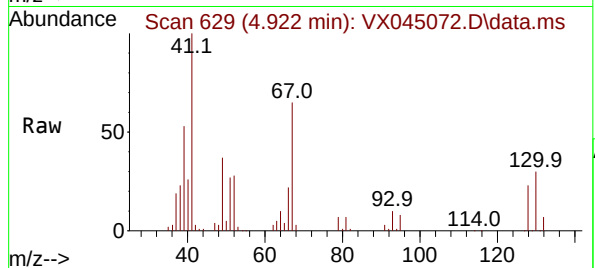
77 23.4 18.8 28.2





#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

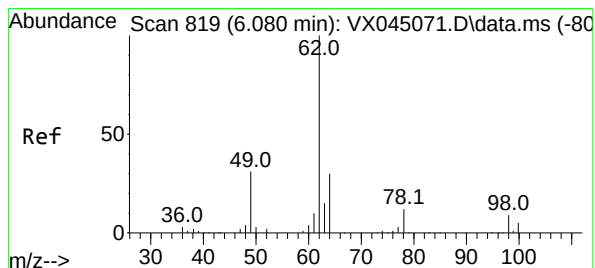
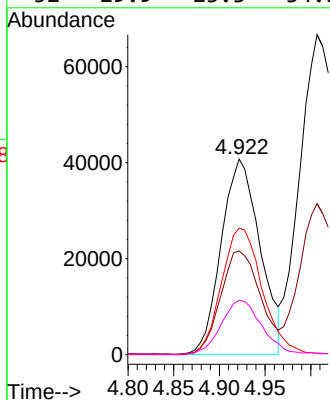
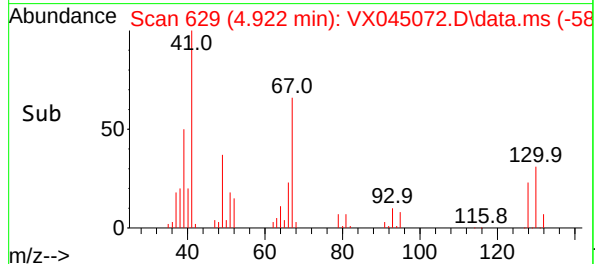
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



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

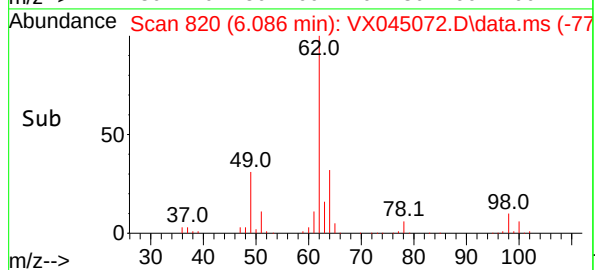
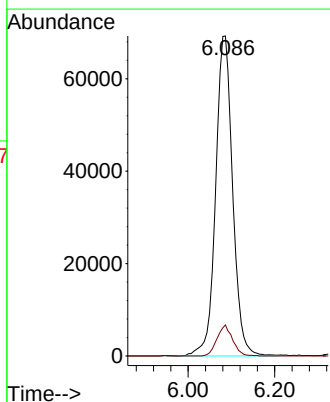
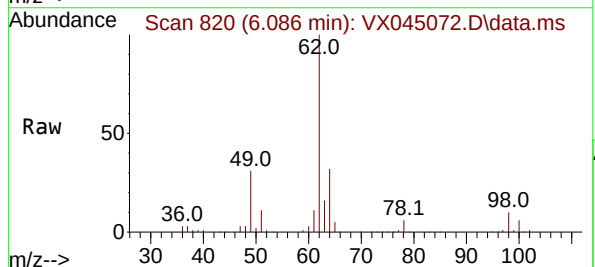
Manual Integrations
APPROVED

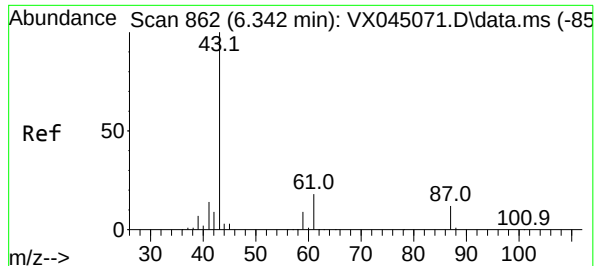
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

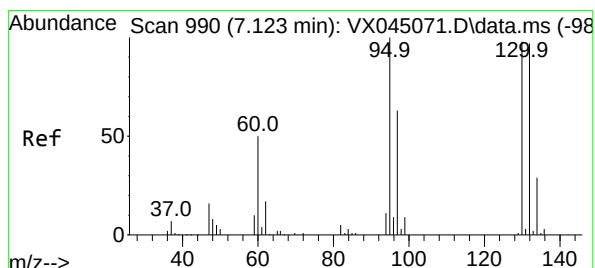
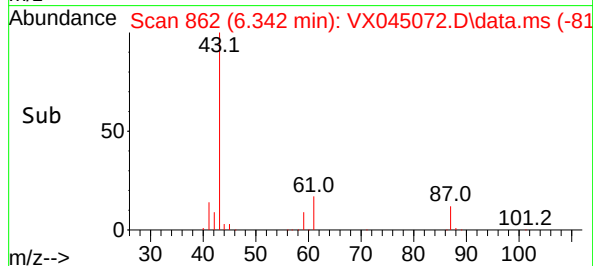
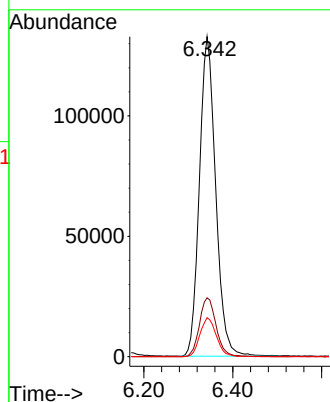
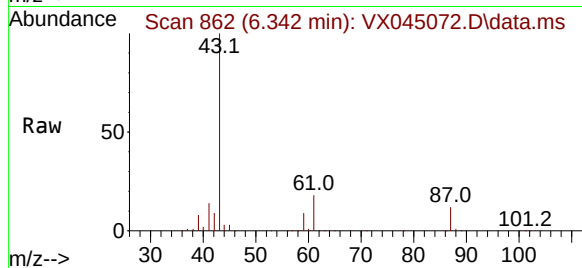
Tgt Ion:	43	Resp:	338414
Ion	Ratio	Lower	Upper
43	100		
61	18.9	14.9	22.3
87	12.3	9.4	14.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#44

Trichloroethene

Concen: 105.402 ug/l

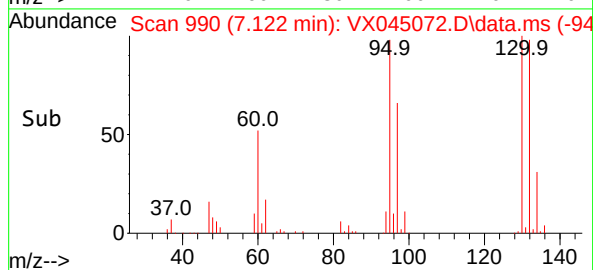
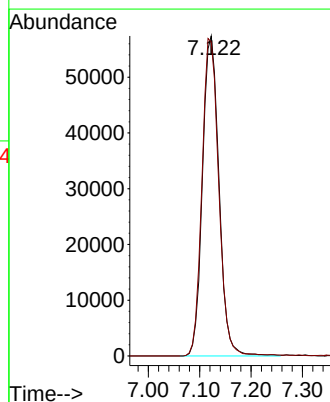
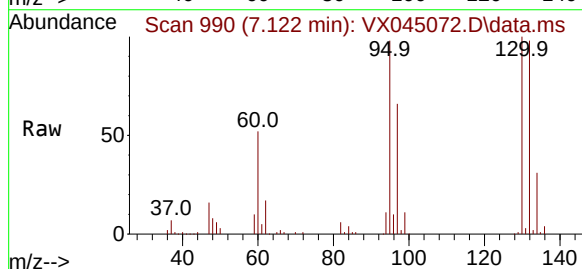
RT: 7.122 min Scan# 990

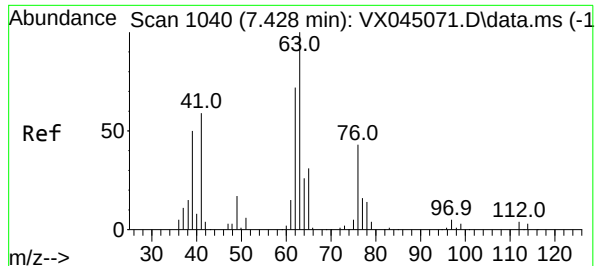
Delta R.T. -0.000 min

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 :

VSTDIC100

Tgt Ion: 63 Resp: 13599

Ion Ratio Lower Upper

63 100

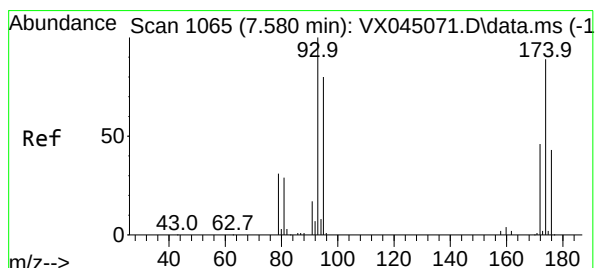
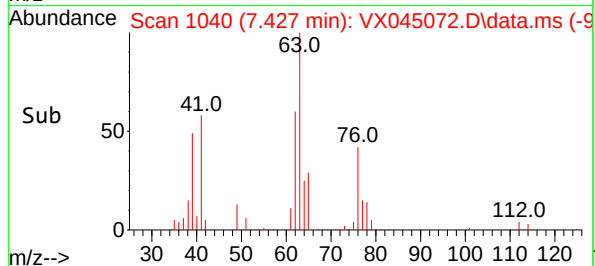
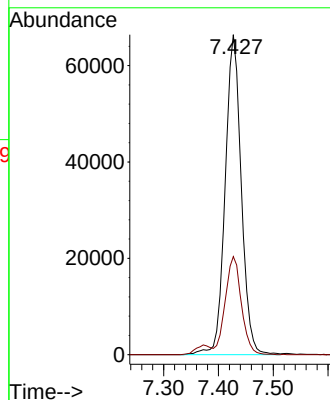
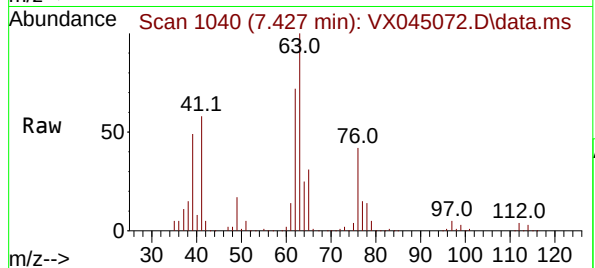
65 30.7 24.7 37.1

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

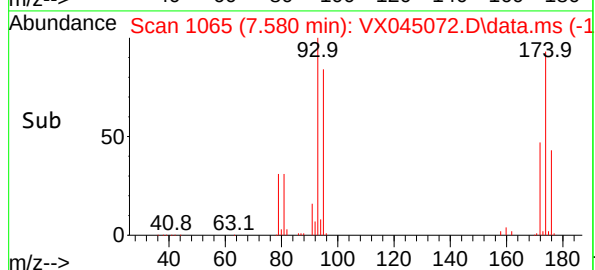
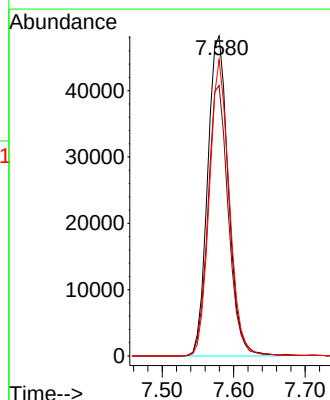
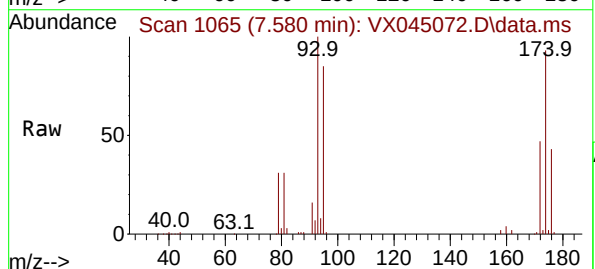
Tgt Ion: 93 Resp: 97248

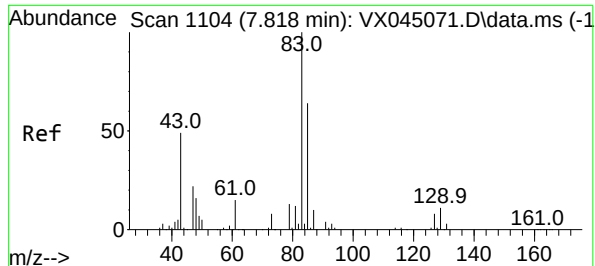
Ion Ratio Lower Upper

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 :

VSTDIC100

Tgt Ion: 83 Resp: 191010

Ion Ratio Lower Upper

83 100

85 66.4 51.1 76.7

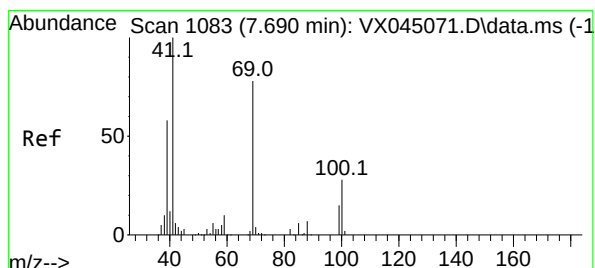
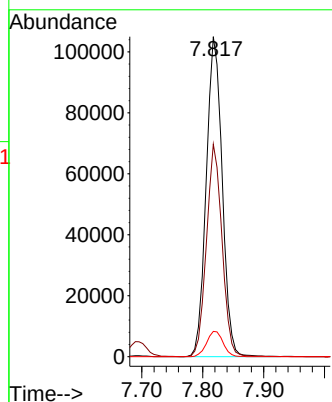
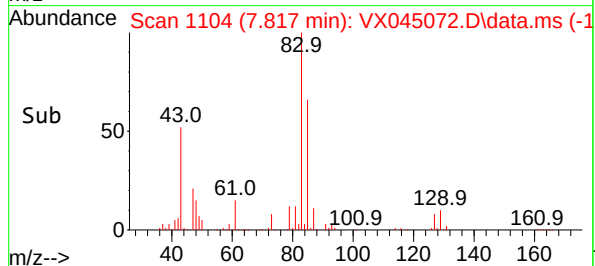
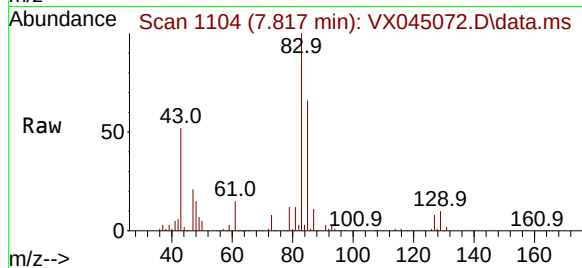
127 7.9 6.4 9.6

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

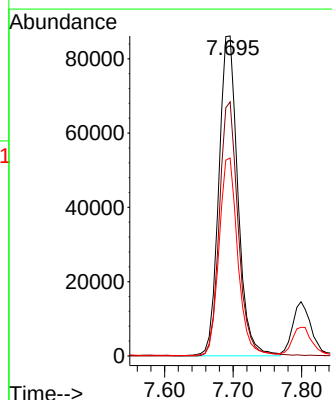
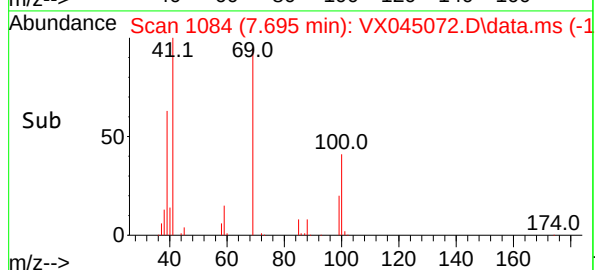
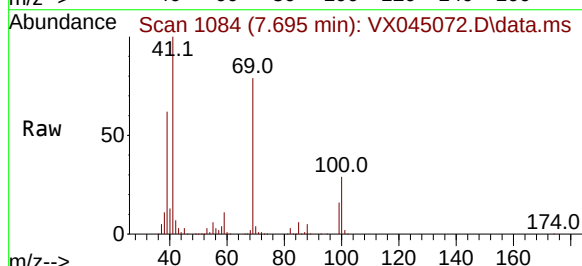
Tgt Ion: 41 Resp: 165825

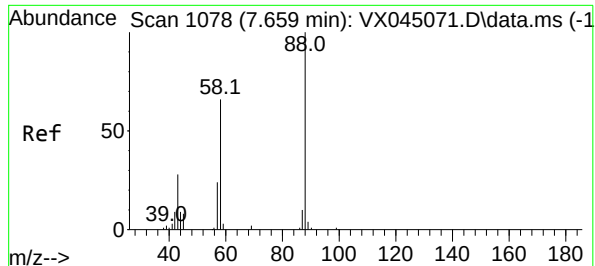
Ion Ratio Lower Upper

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 :

VSTDIC100

Tgt Ion: 88 Resp: 66308

Ion Ratio Lower Upper

88 100

43 35.6 28.7 43.1

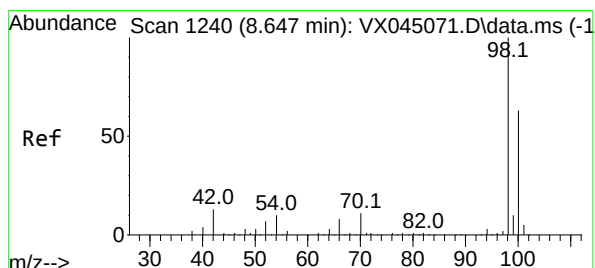
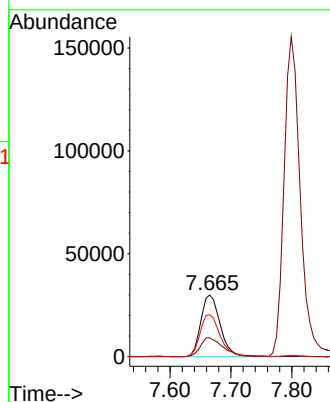
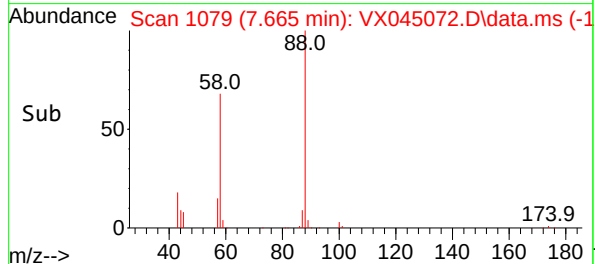
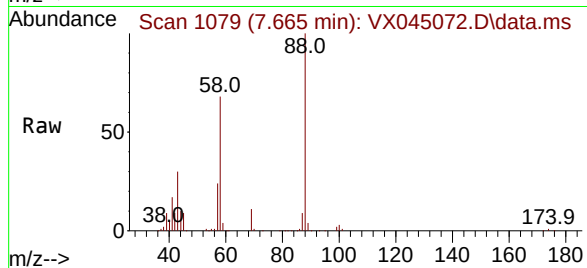
58 70.5 55.8 83.8

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

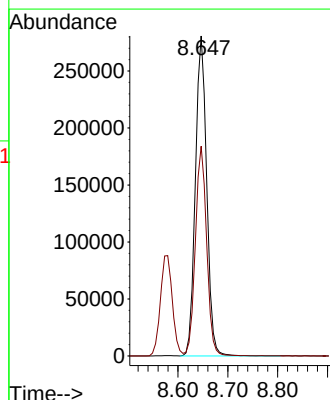
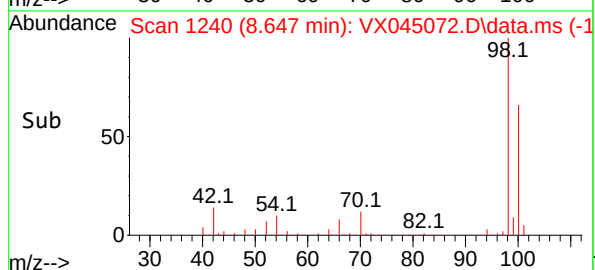
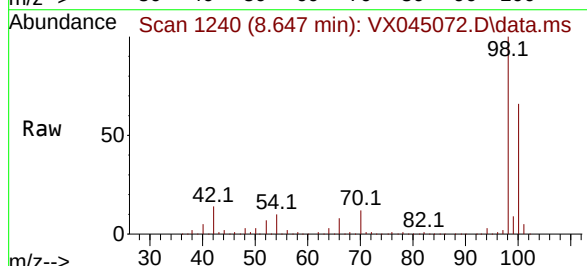
Acq: 28 Feb 2025 03:23

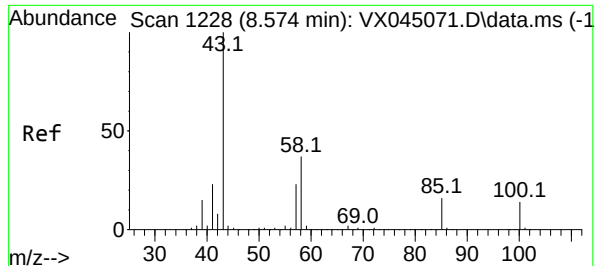
Tgt Ion: 98 Resp: 441188

Ion Ratio Lower Upper

98 100

100 65.3 52.0 78.0





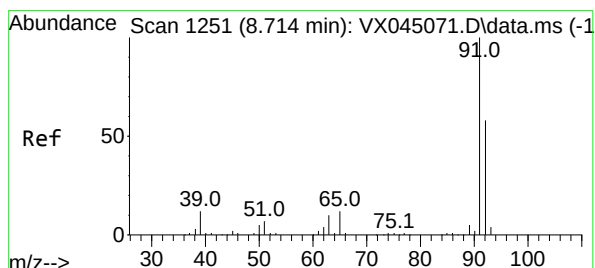
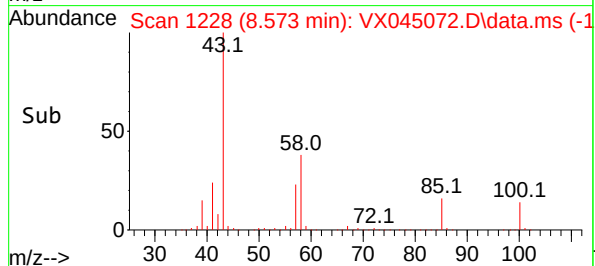
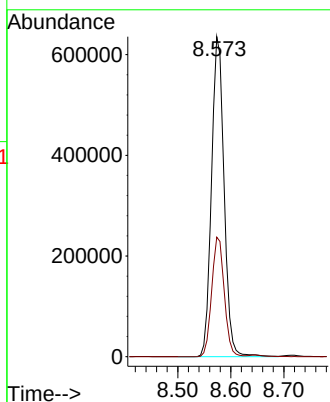
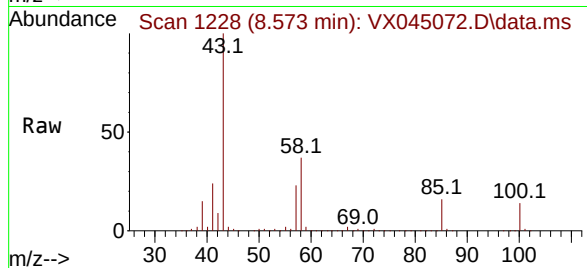
#51
4-Methyl-2-Pentanone
Concen: 555.050 ug/l
RT: 8.573 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1048140
Ion Ratio Lower Upper
43 100
58 37.4 29.2 43.8

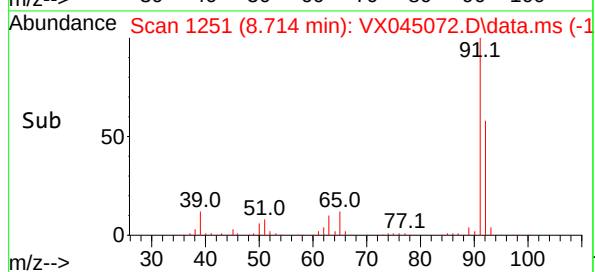
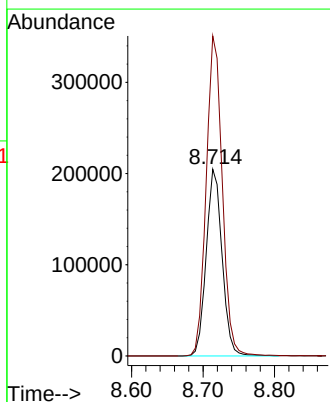
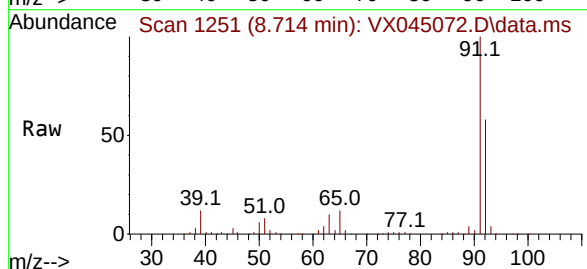
Manual Integrations
APPROVED

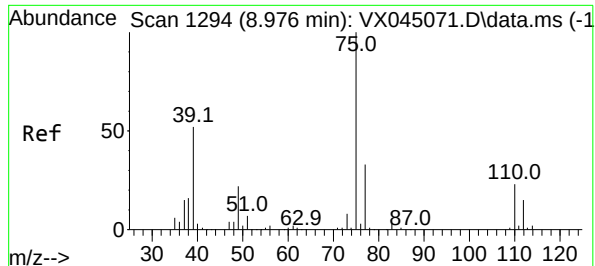
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

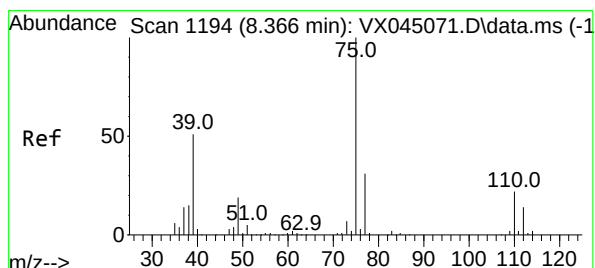
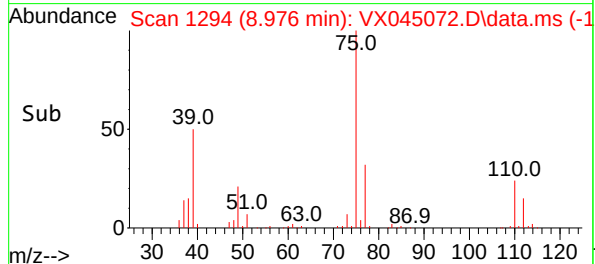
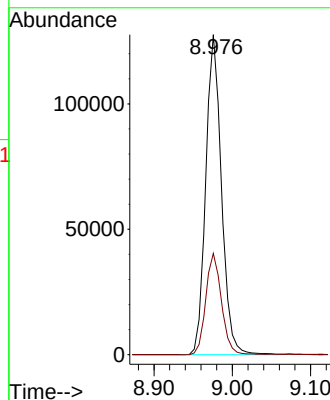
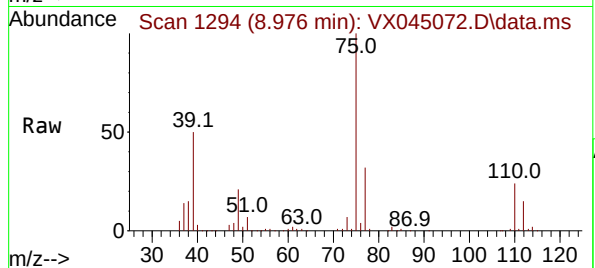
77 31.6 26.5 39.7

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

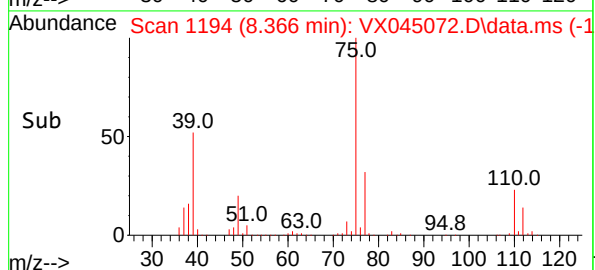
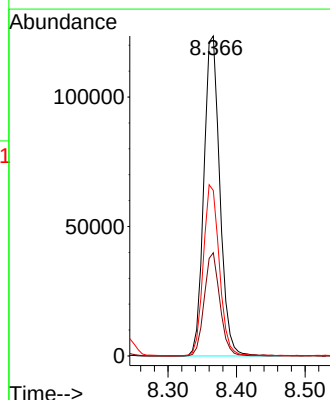
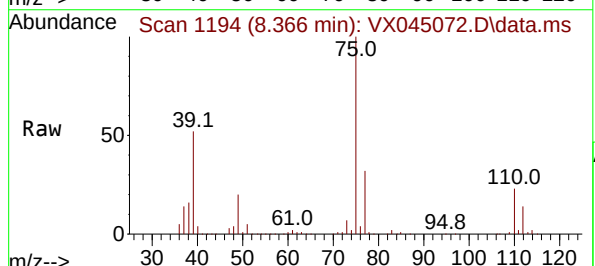
Tgt Ion: 75 Resp: 200943

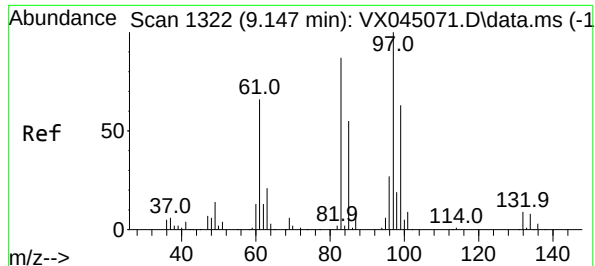
Ion Ratio Lower Upper

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

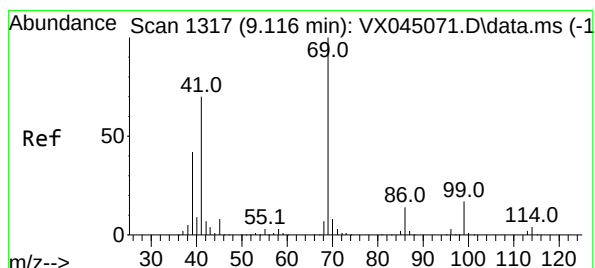
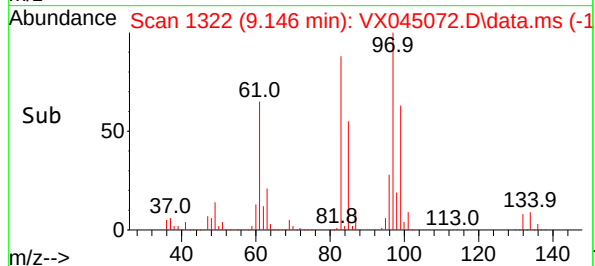
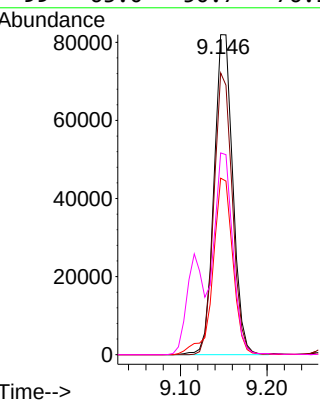
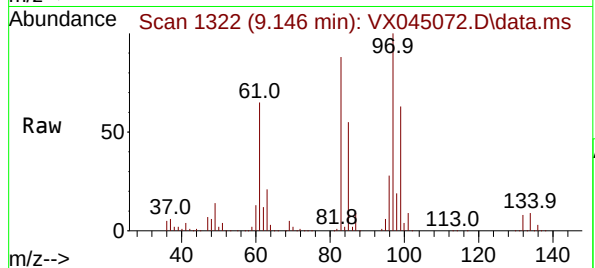
99 63.0 50.7 76.1

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

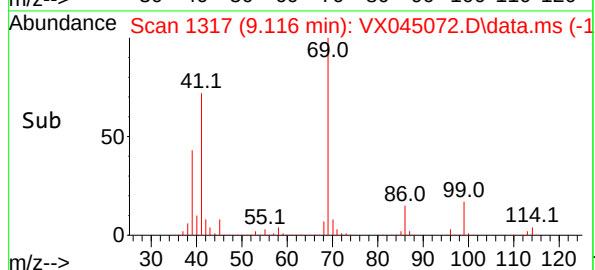
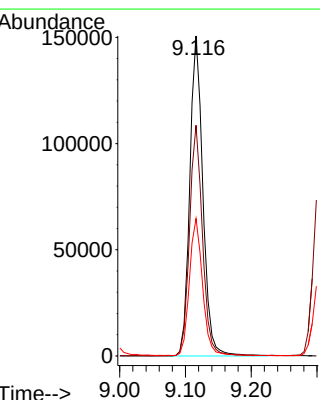
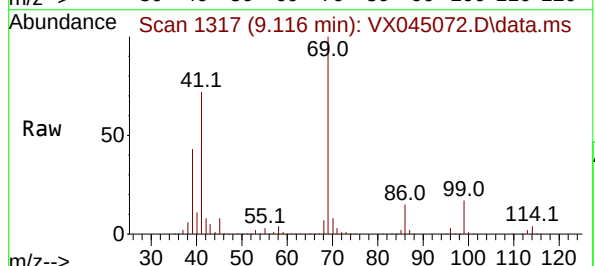
Tgt Ion: 69 Resp: 208782

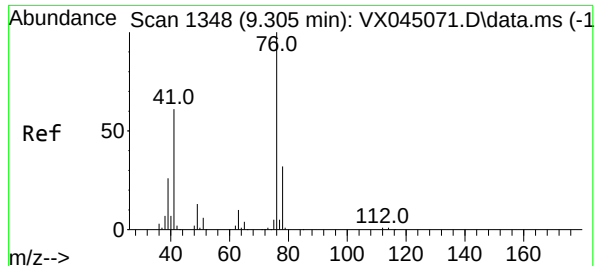
Ion Ratio Lower Upper

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 :

VSTDIC100

Tgt Ion: 76 Resp: 21626

Ion Ratio Lower Upper

76 100

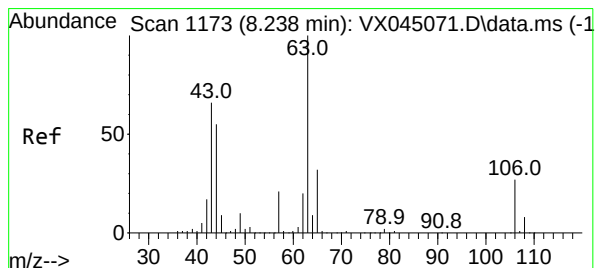
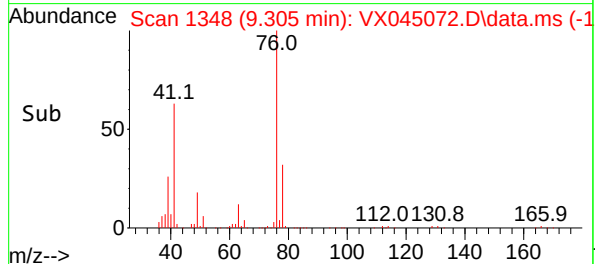
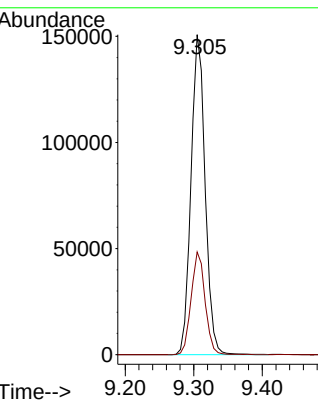
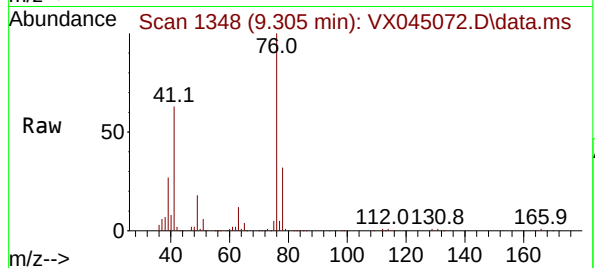
78 31.8 25.5 38.3

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

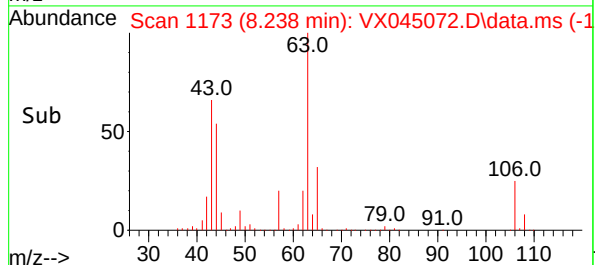
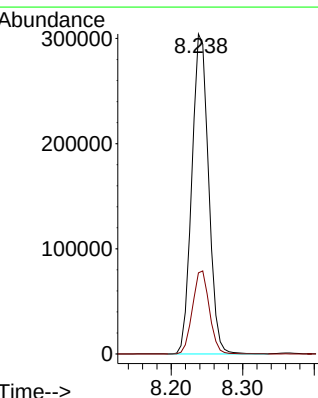
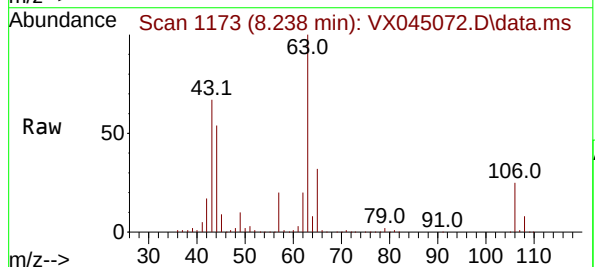
Acq: 28 Feb 2025 03:23

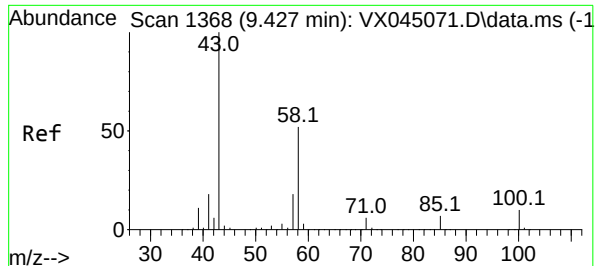
Tgt Ion: 63 Resp: 494551

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

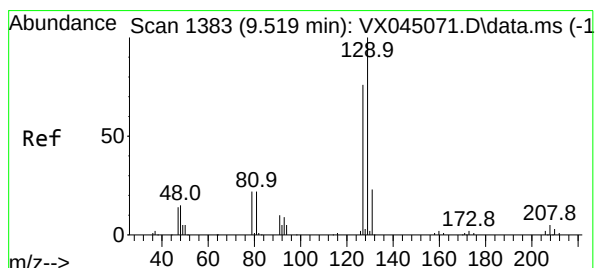
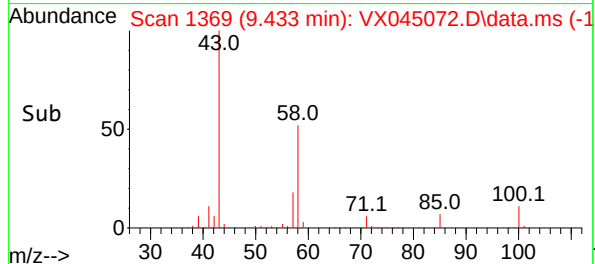
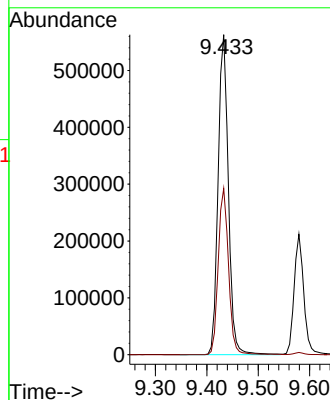
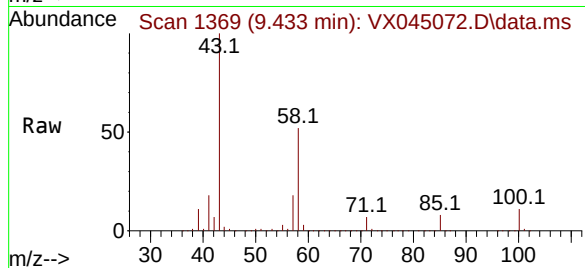
58 52.2 25.9 77.6

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

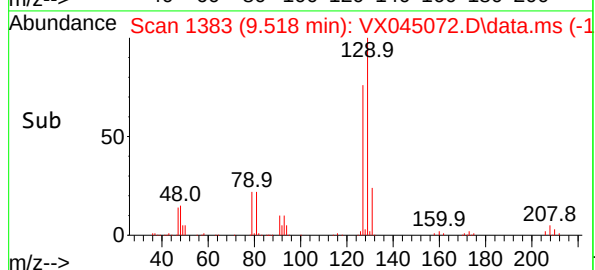
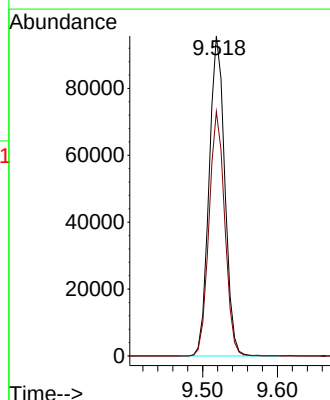
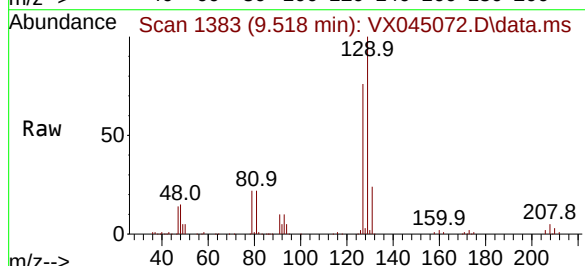
Acq: 28 Feb 2025 03:23

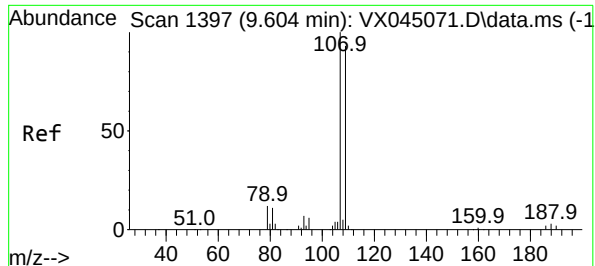
Tgt Ion:129 Resp: 139245

Ion Ratio Lower Upper

129 100

127 76.3 38.5 115.5





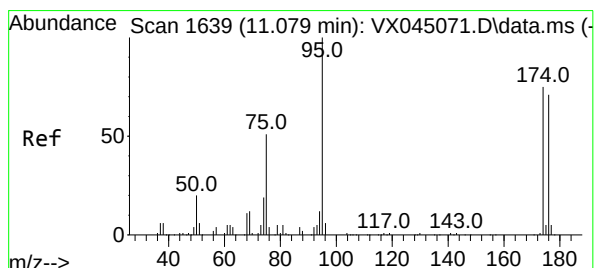
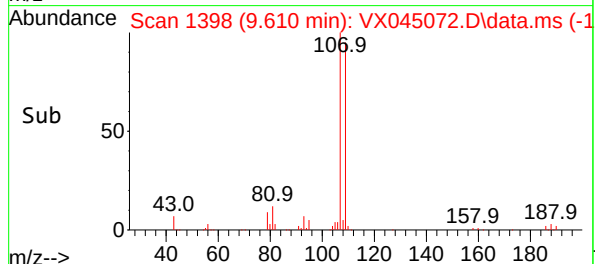
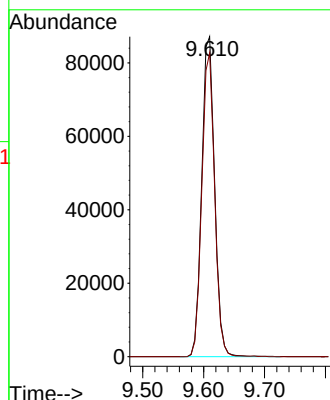
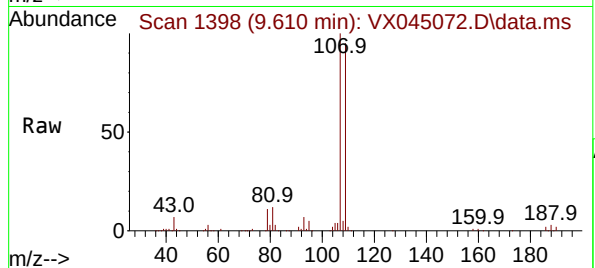
#61
1,2-Dibromoethane
Concen: 104.259 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tgt Ion:107 Resp: 12861
Ion Ratio Lower Upper
107 100
109 94.3 76.1 114.1

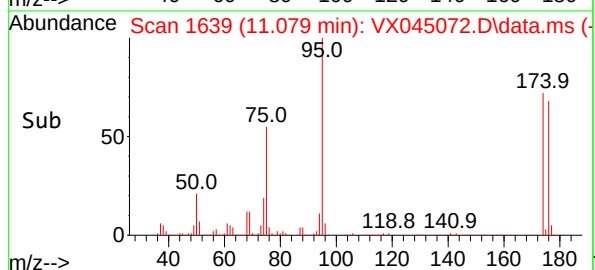
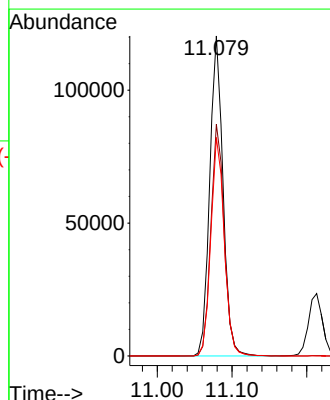
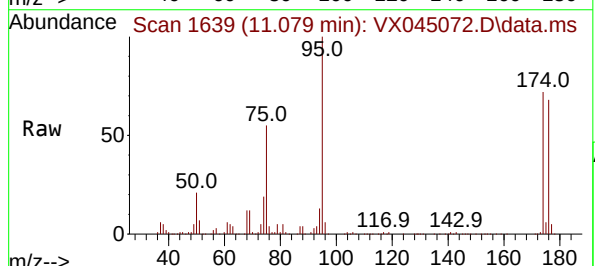
Manual Integrations
APPROVED

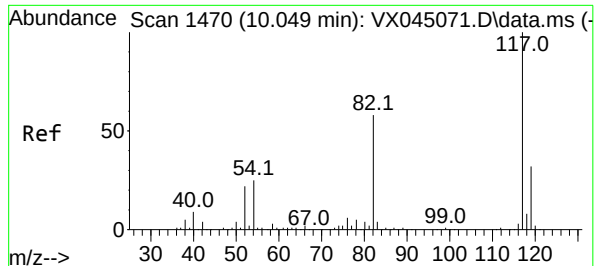
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

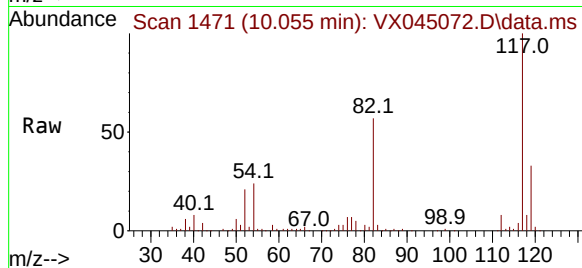
Tgt Ion: 95 Resp: 148476
Ion Ratio Lower Upper
95 100
174 73.0 0.0 148.2
176 69.2 0.0 141.4





#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

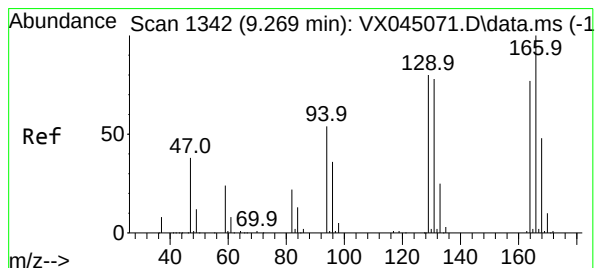
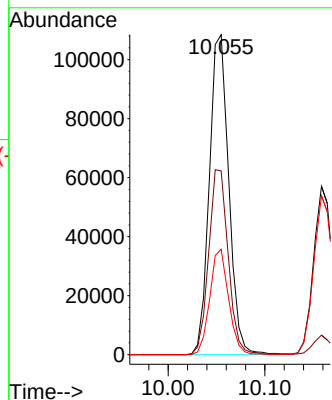
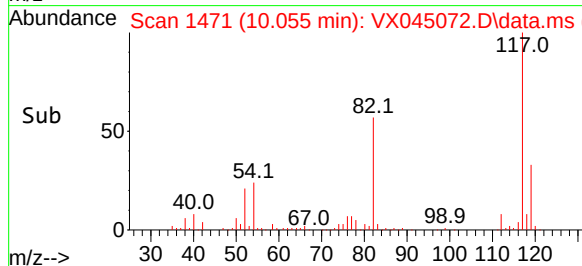
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



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

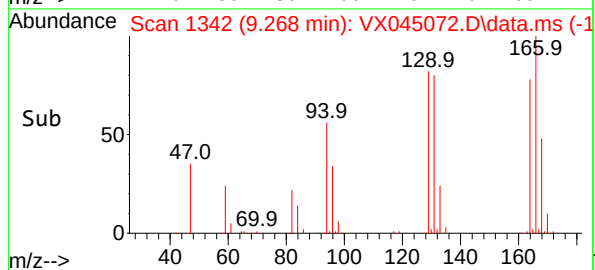
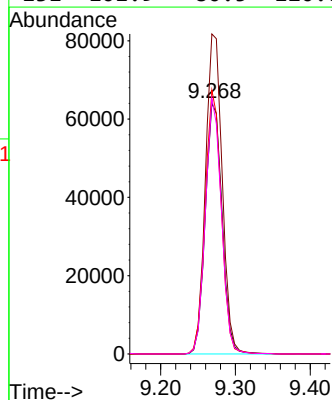
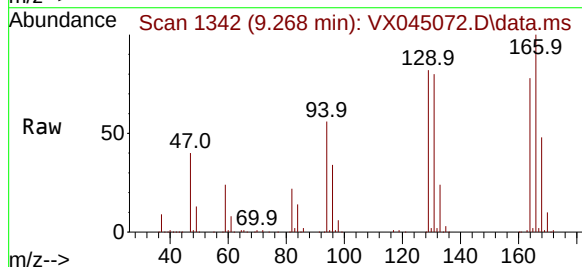
Manual Integrations
APPROVED

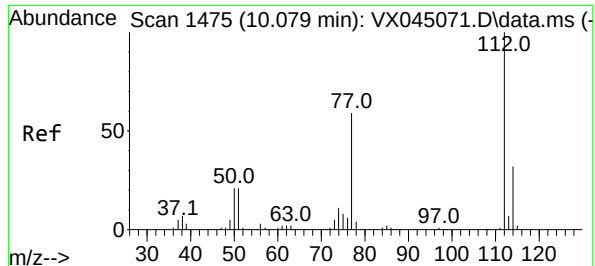
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





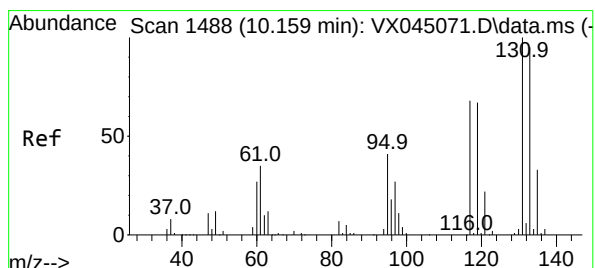
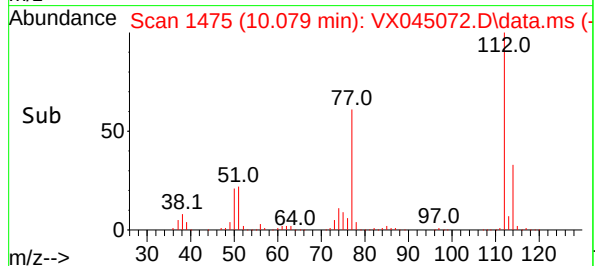
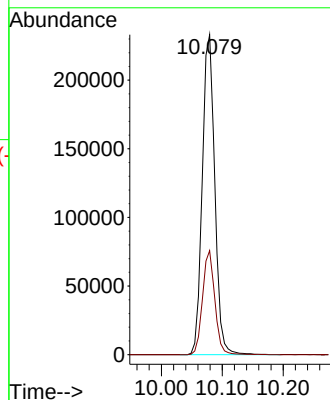
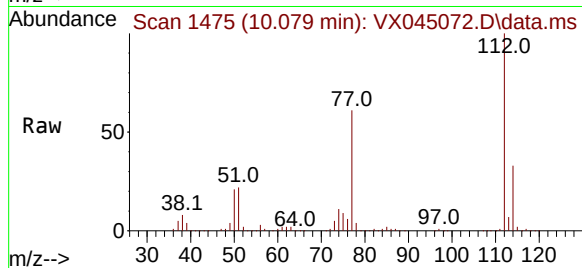
#65
Chlorobenzene
Concen: 102.456 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tgt Ion:112 Resp: 33247
Ion Ratio Lower Upper
112 100
114 32.5 26.0 39.0

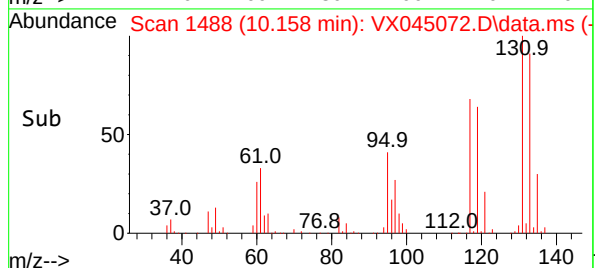
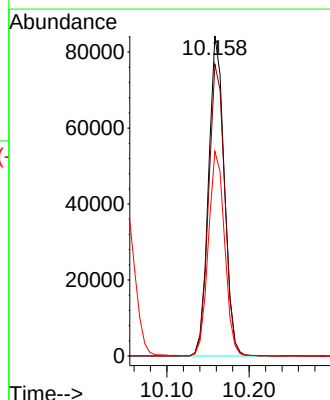
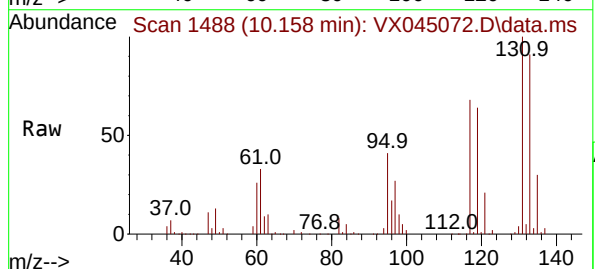
Manual Integrations
APPROVED

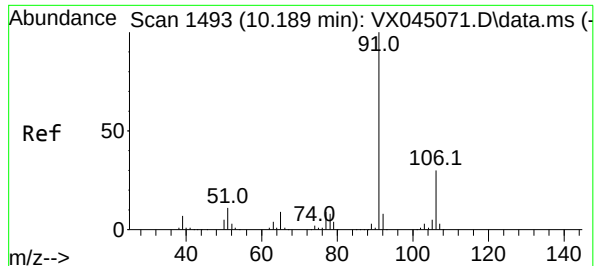
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

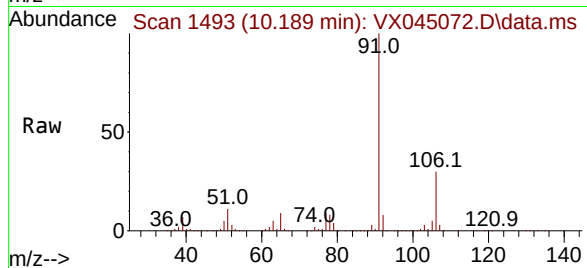
Tgt Ion:131 Resp: 112451
Ion Ratio Lower Upper
131 100
133 93.1 48.6 145.9
119 65.8 33.9 101.7





#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

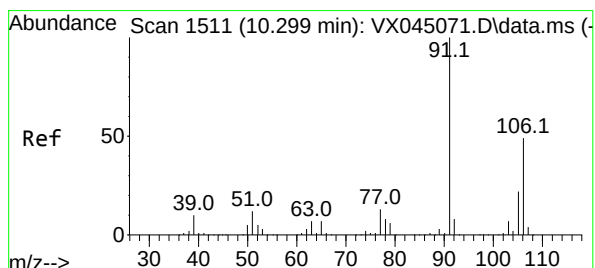
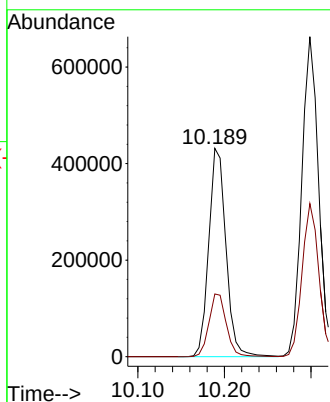
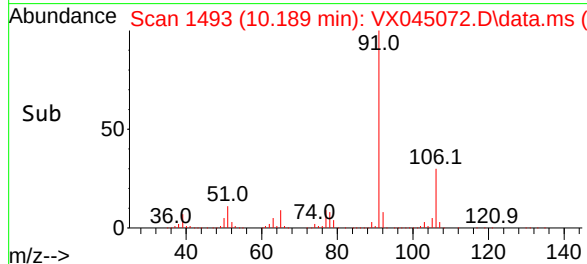
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 91 Resp: 59625
Ion Ratio Lower Upper
91 100
106 30.1 23.9 35.9

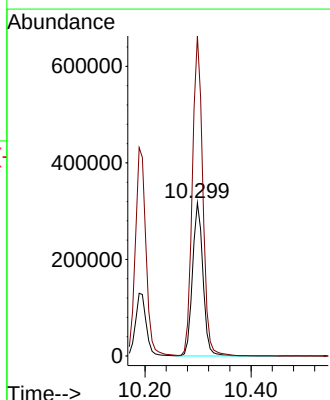
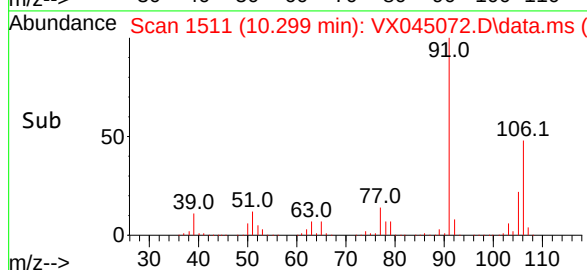
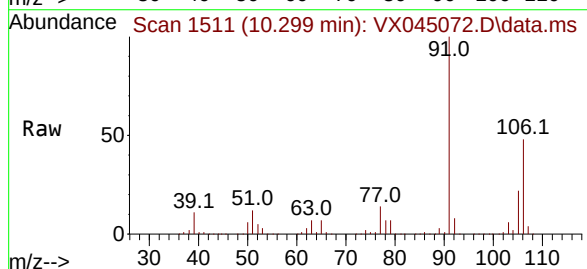
Manual Integrations
APPROVED

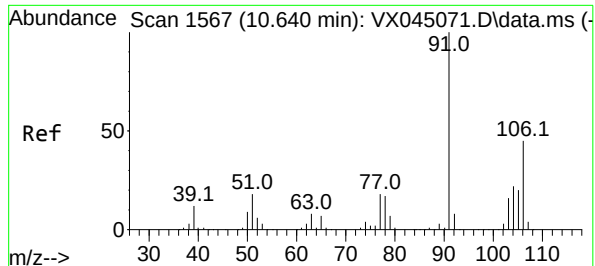
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





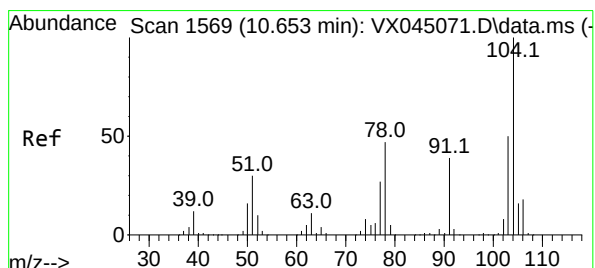
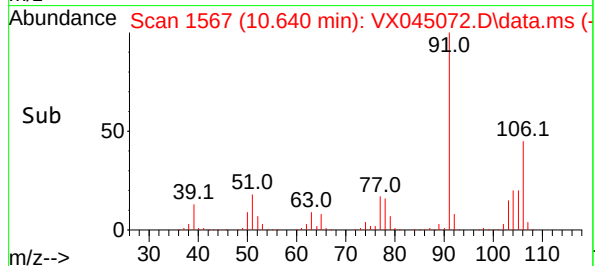
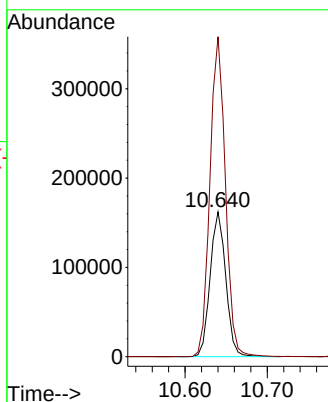
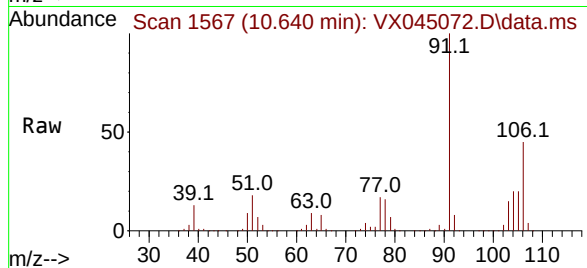
#69
o-Xylene
Concen: 100.849 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 21383
Ion Ratio Lower Upper
106 100
91 218.2 109.9 329.6

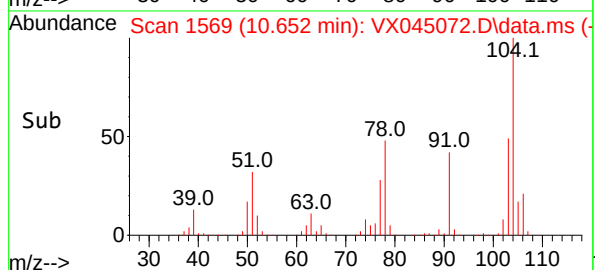
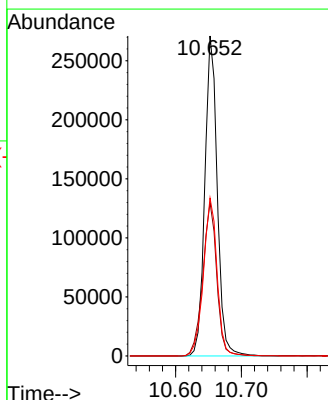
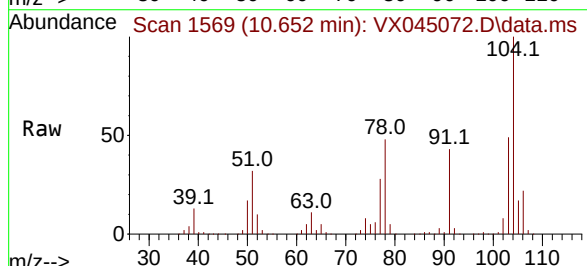
Manual Integrations
APPROVED

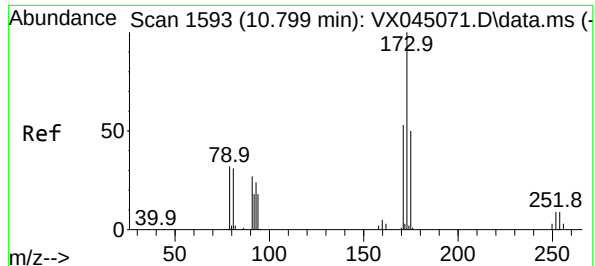
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

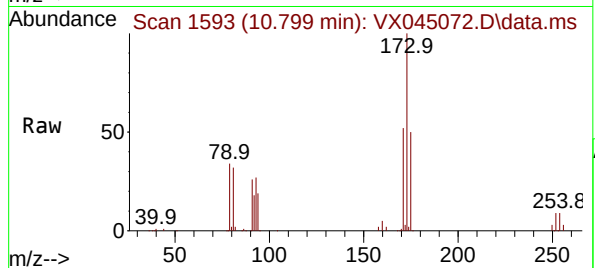
Tgt Ion:104 Resp: 357649
Ion Ratio Lower Upper
104 100
78 53.7 42.2 63.4
103 54.3 43.8 65.8





#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

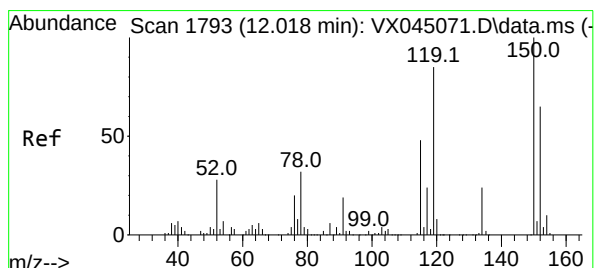
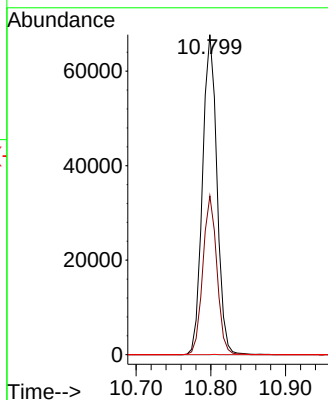
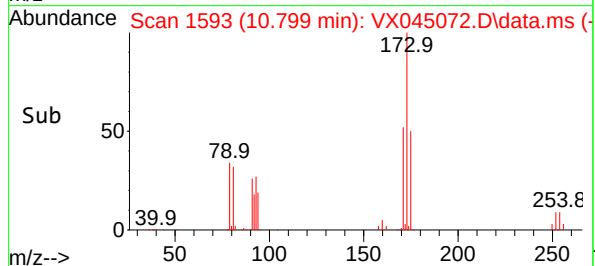
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



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

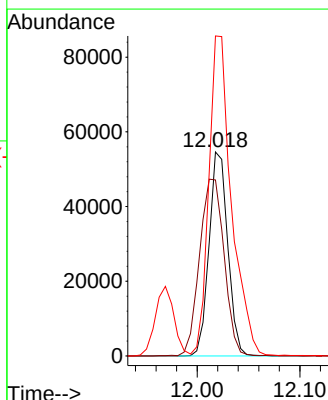
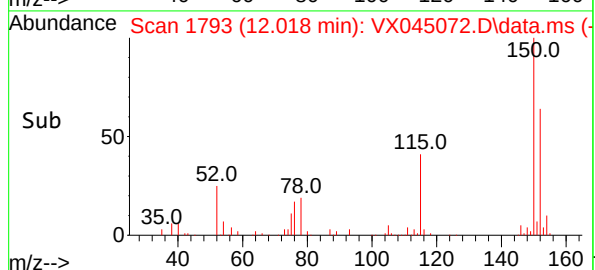
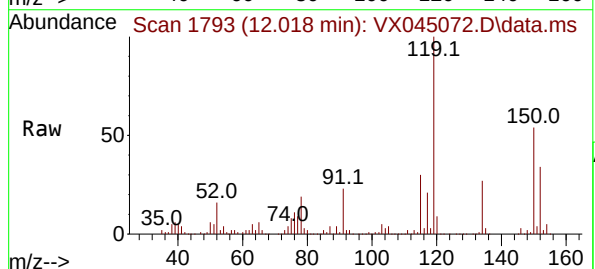
Manual Integrations
APPROVED

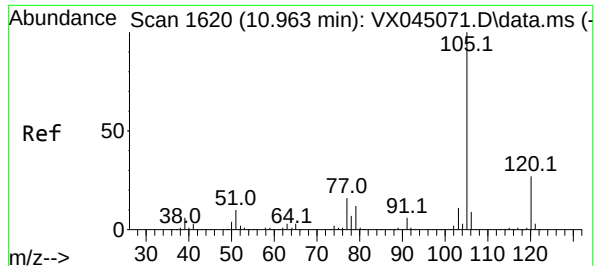
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





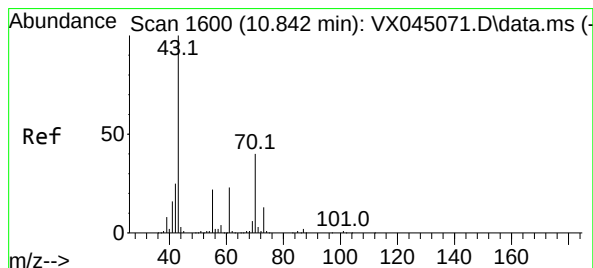
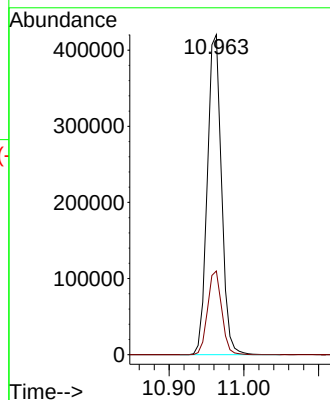
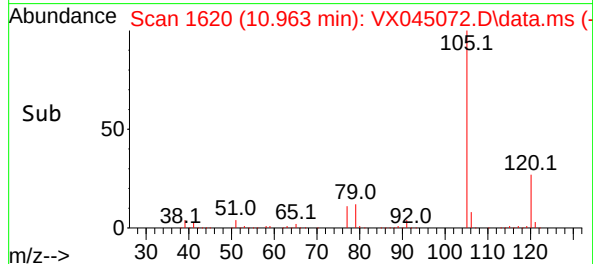
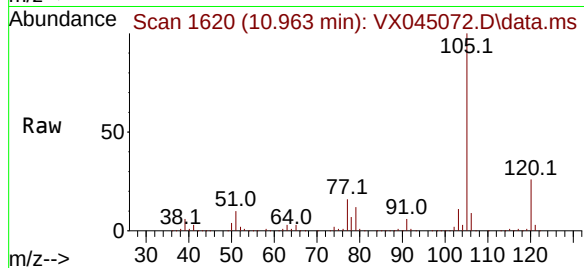
#73
Isopropylbenzene
Concen: 99.138 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 55353
Ion Ratio Lower Upper
105 100
120 26.0 13.2 39.5

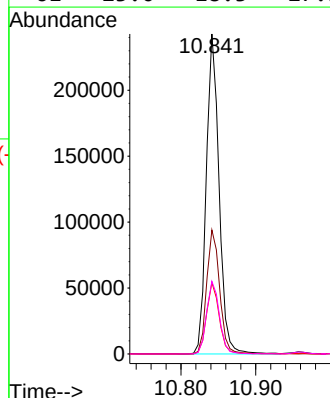
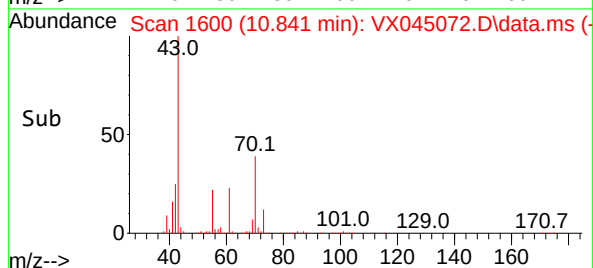
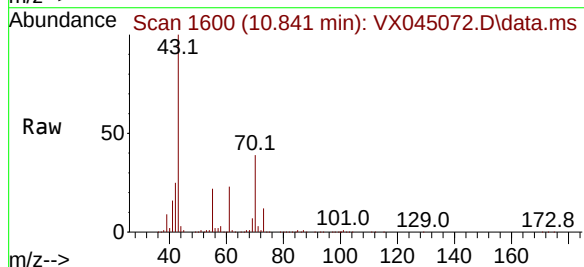
Manual Integrations
APPROVED

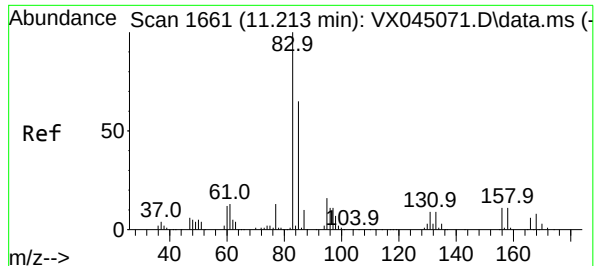
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





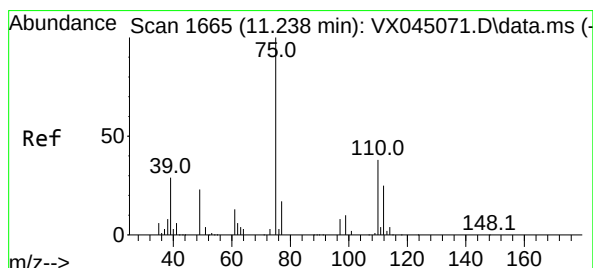
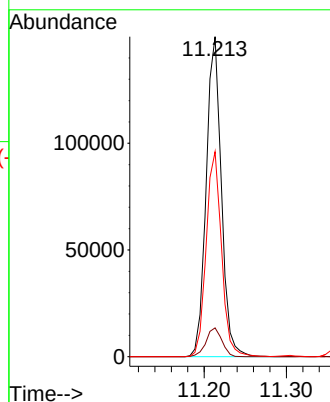
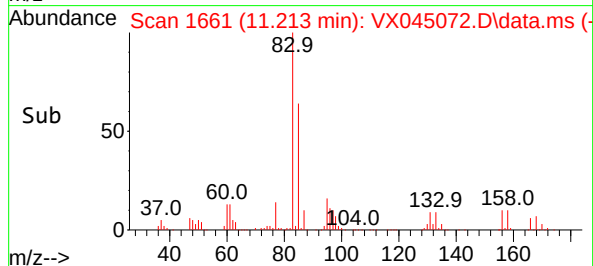
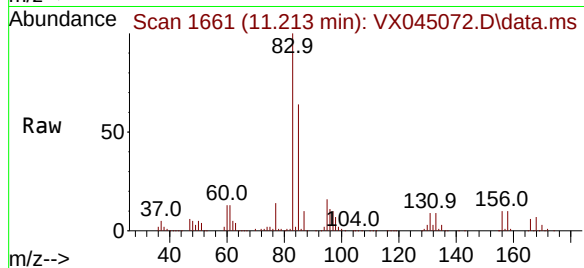
#75
1,1,2,2-Tetrachloroethane
Concen: 99.923 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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

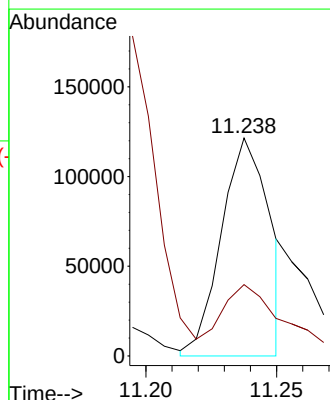
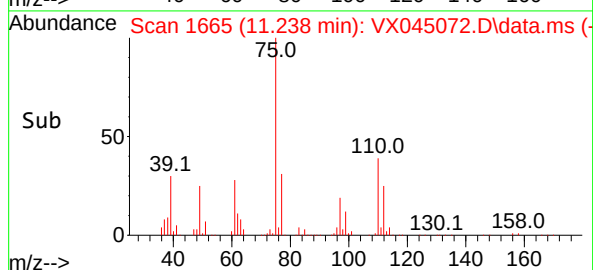
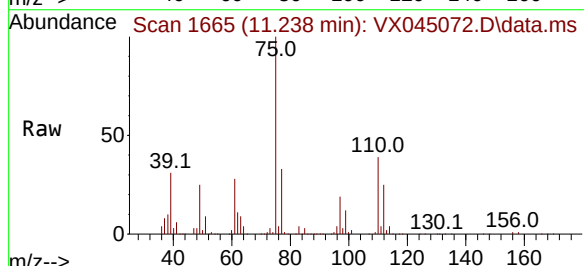
Manual Integrations
APPROVED

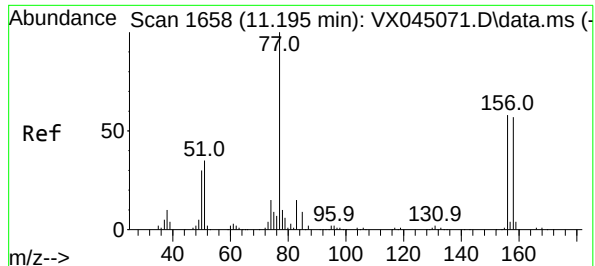
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

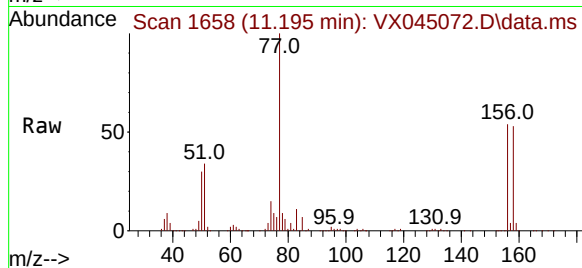
Tgt Ion: 75 Resp: 156259
Ion Ratio Lower Upper
75 100
77 42.7 20.7 62.1





#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

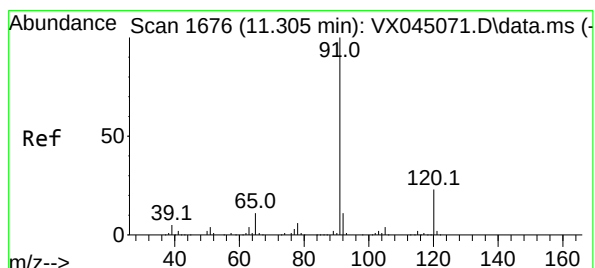
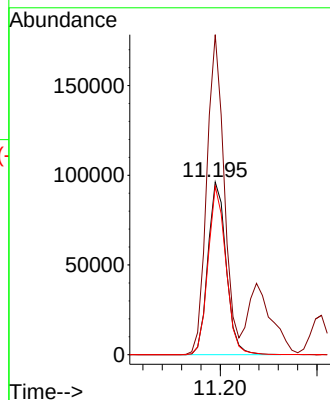
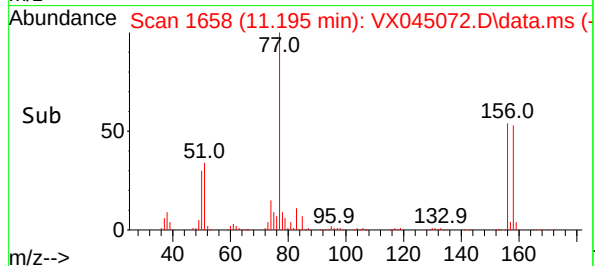
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



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

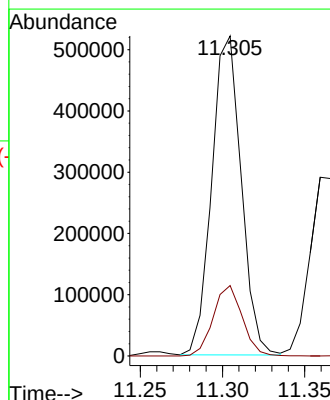
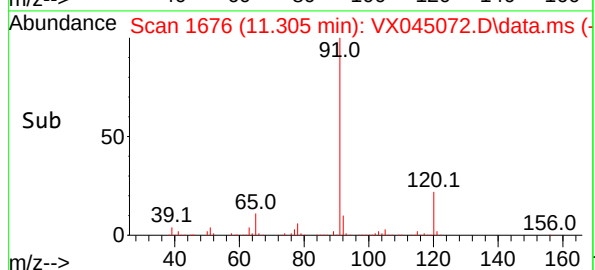
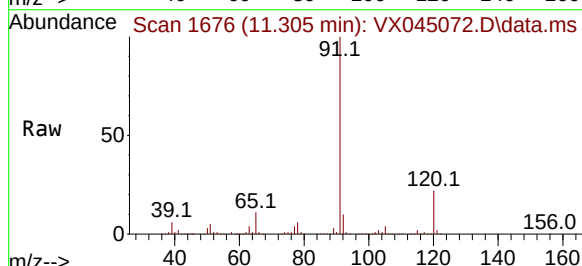
Manual Integrations
APPROVED

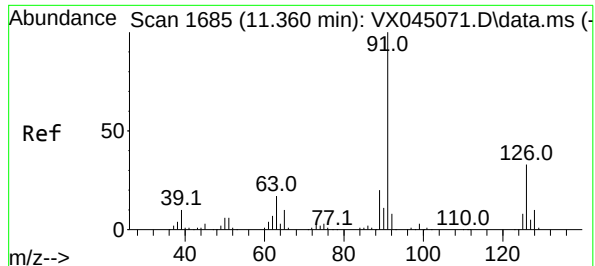
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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# 1

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: 38270

Ion Ratio Lower Upper

91 100

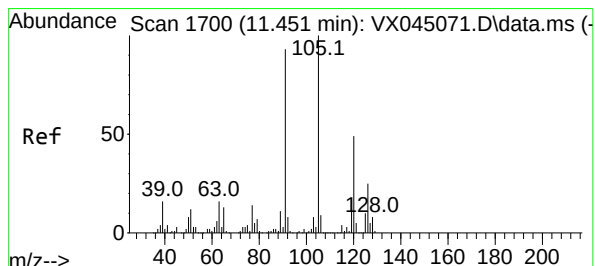
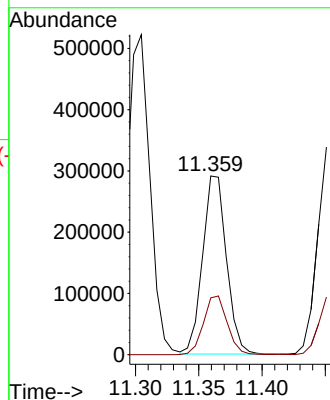
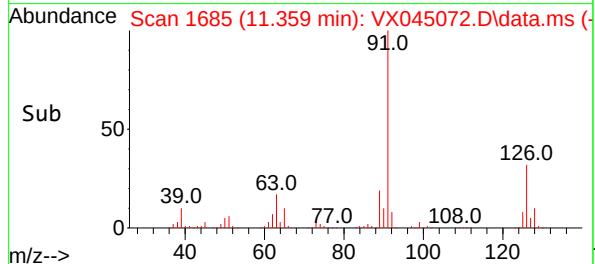
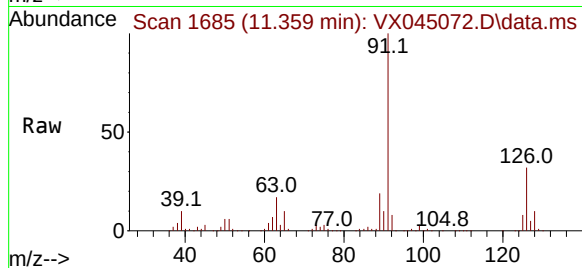
126 32.7 16.4 49.4

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

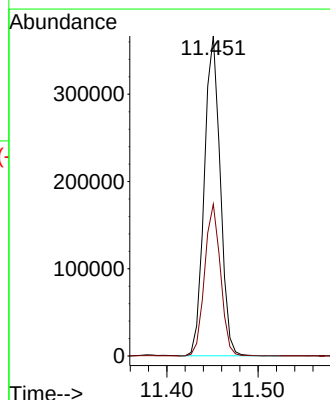
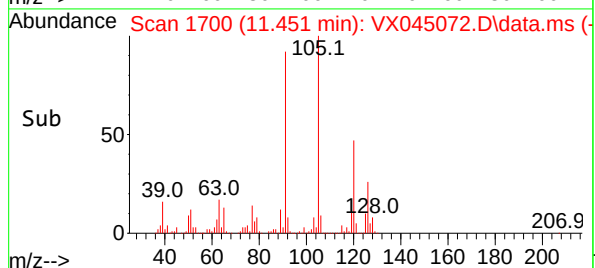
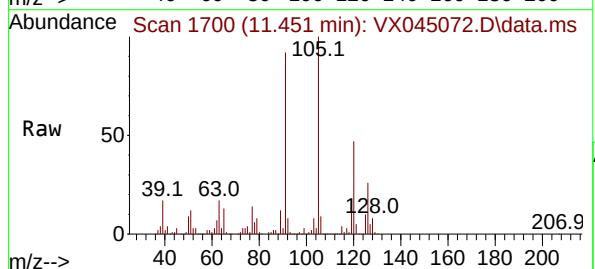
Acq: 28 Feb 2025 03:23

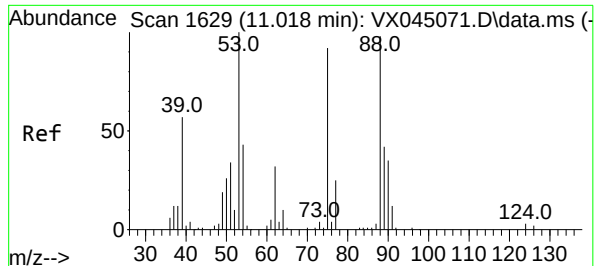
Tgt Ion:105 Resp: 445466

Ion Ratio Lower Upper

105 100

120 47.1 24.1 72.2





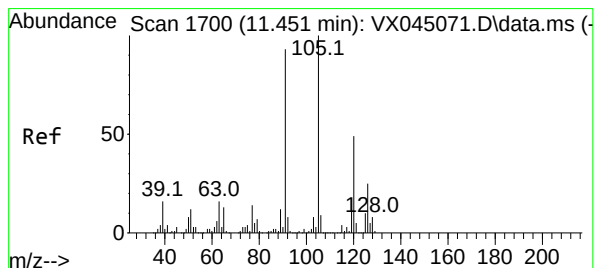
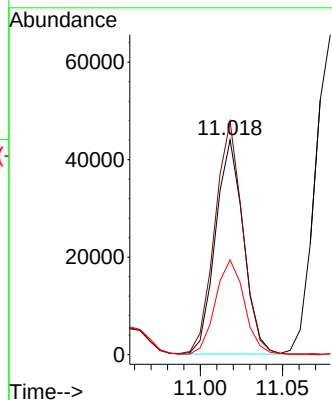
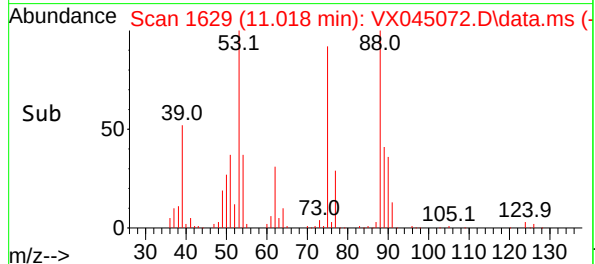
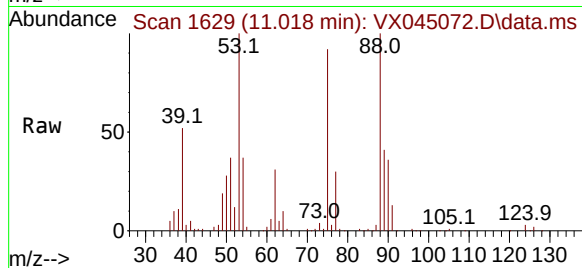
#81
trans-1,4-Dichloro-2-butene
Concen: 91.460 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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

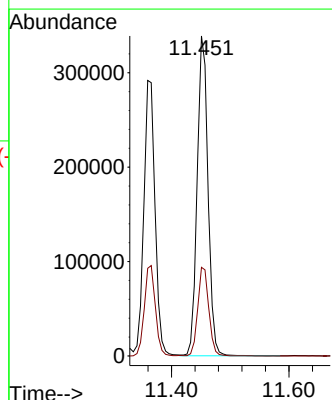
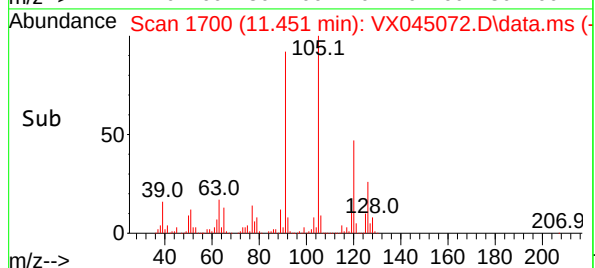
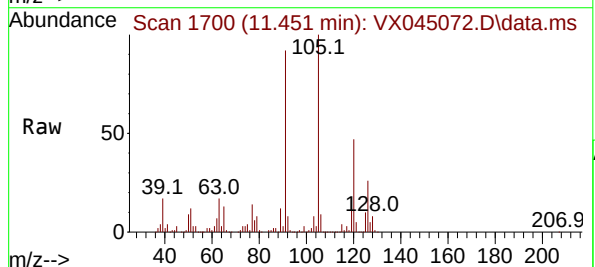
Manual Integrations
APPROVED

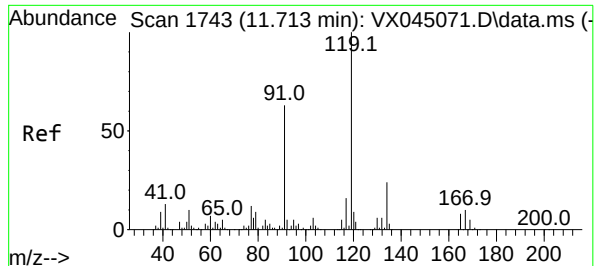
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

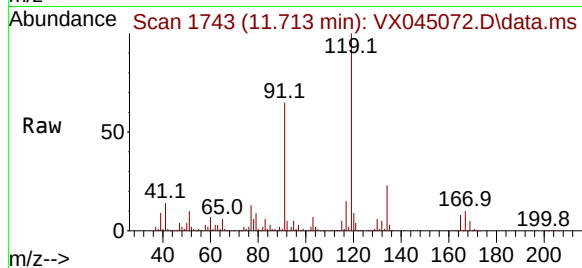
Tgt Ion: 91 Resp: 433881
Ion Ratio Lower Upper
91 100
126 28.2 14.1 42.4





#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

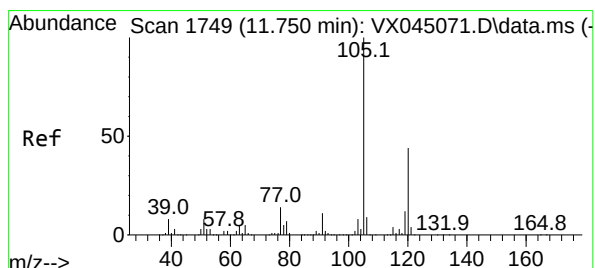
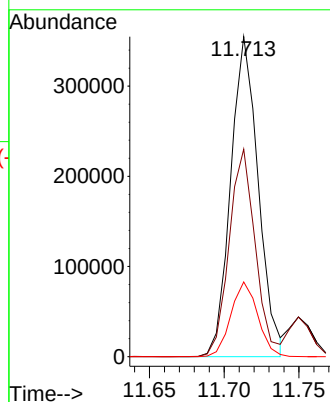
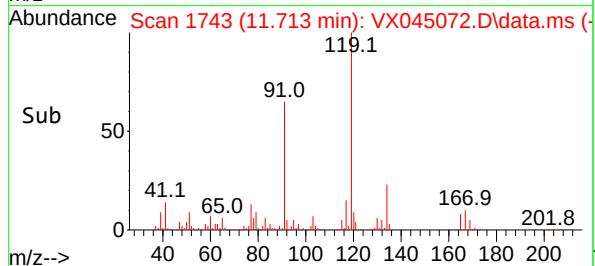
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



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

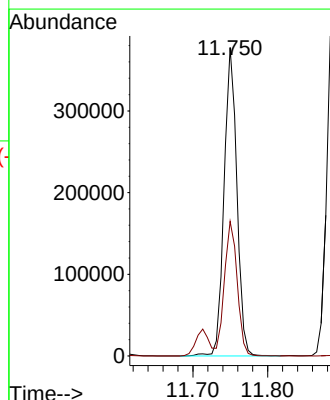
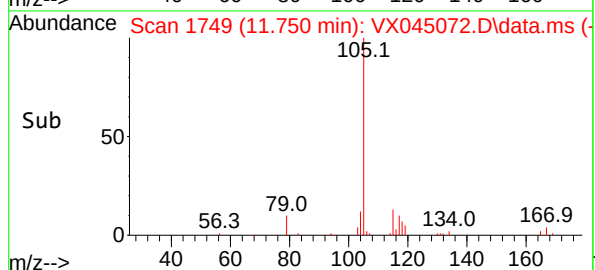
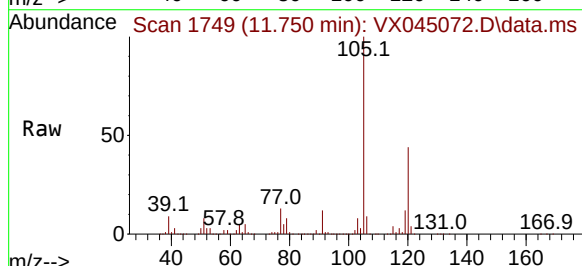
Manual Integrations
APPROVED

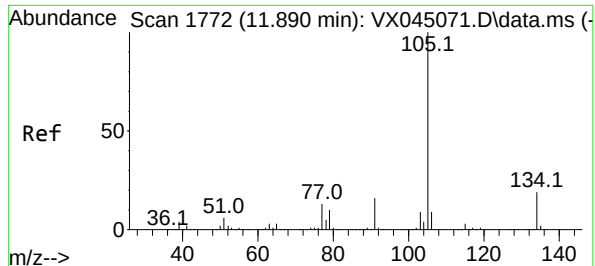
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





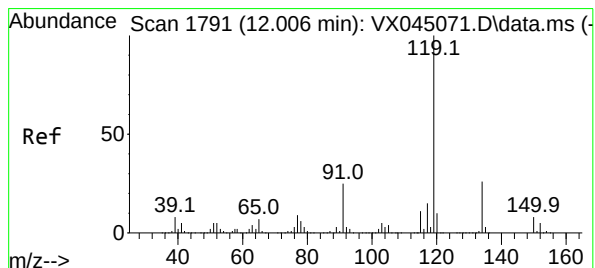
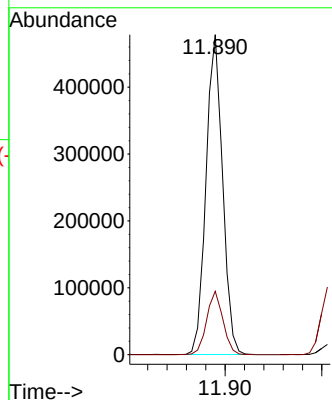
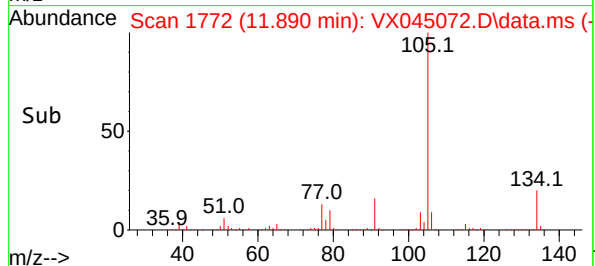
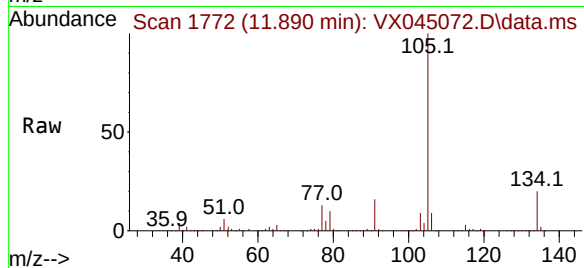
#85
sec-Butylbenzene
Concen: 100.517 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 570000
Ion Ratio Lower Upper
105 100
134 19.6 9.8 29.4

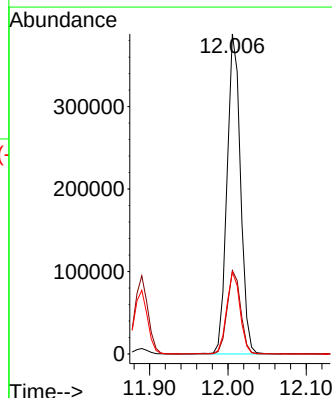
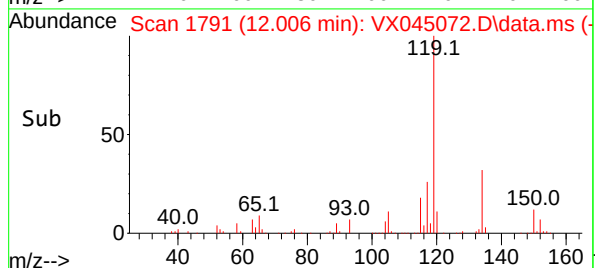
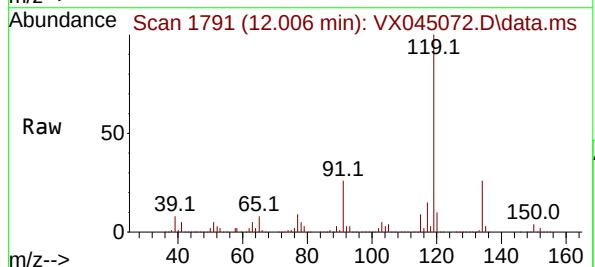
Manual Integrations
APPROVED

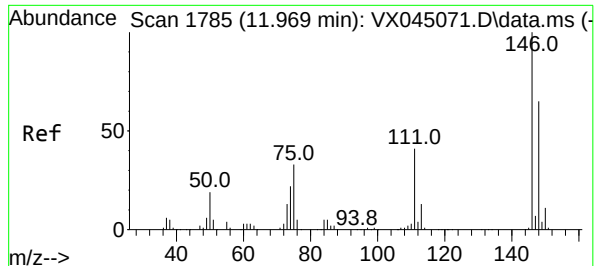
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

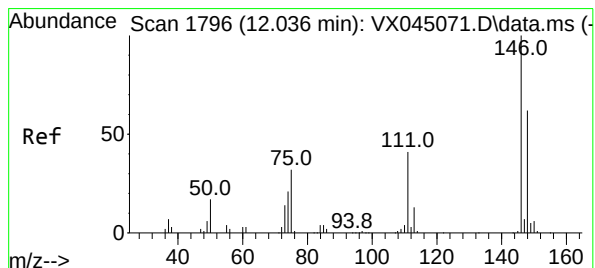
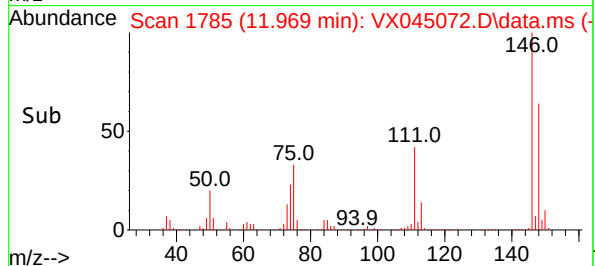
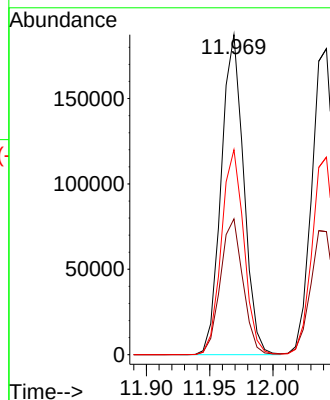
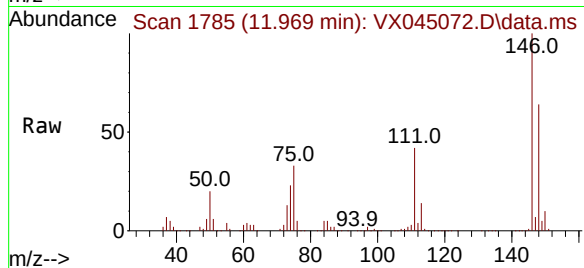
148 64.1 31.9 95.7

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

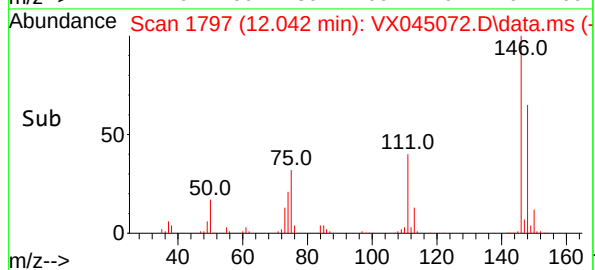
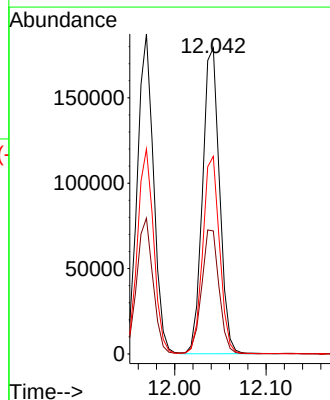
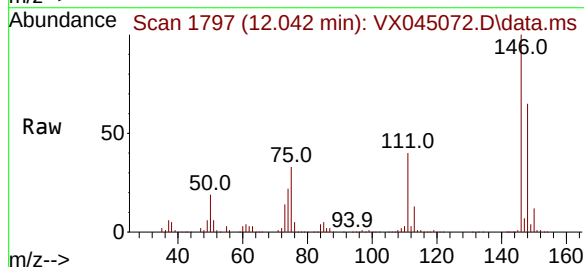
Tgt Ion:146 Resp: 230663

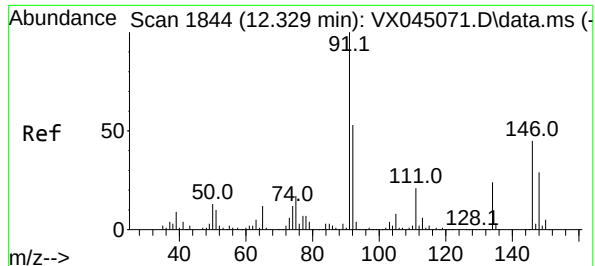
Ion Ratio Lower Upper

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

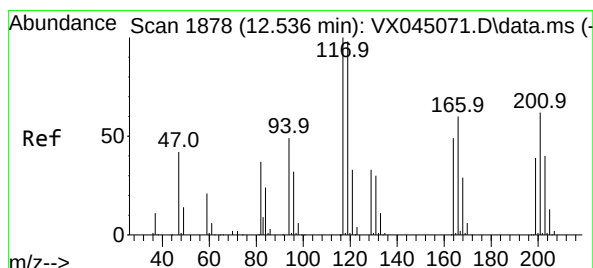
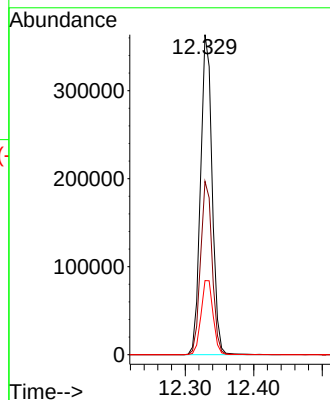
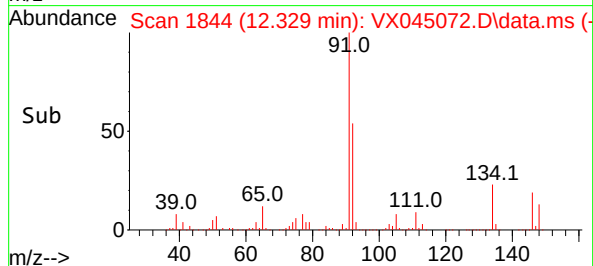
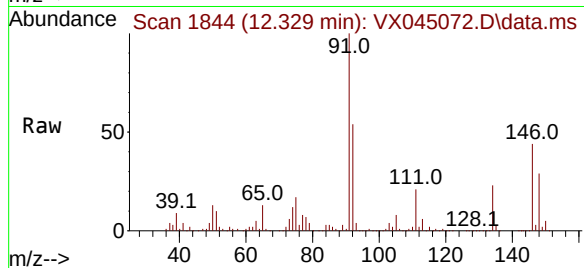
134 24.2 12.2 36.6

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

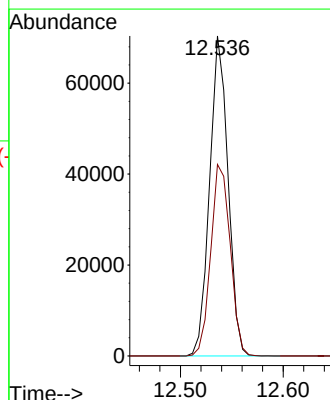
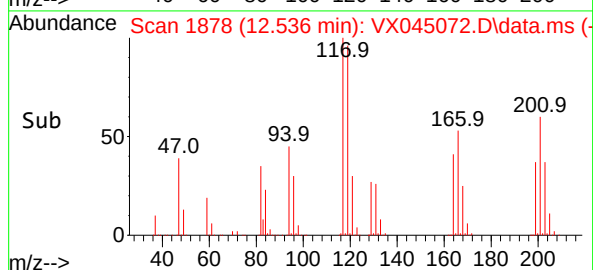
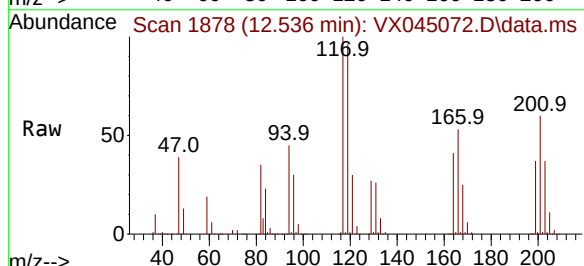
Acq: 28 Feb 2025 03:23

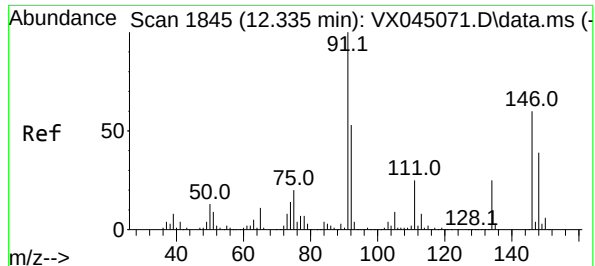
Tgt Ion:117 Resp: 87448

Ion Ratio Lower Upper

117 100

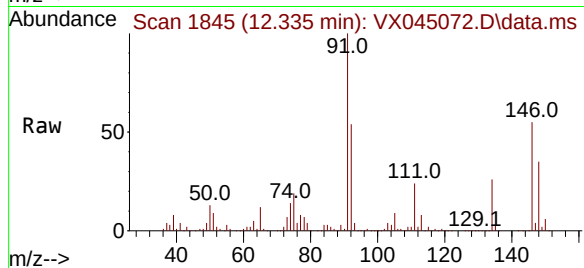
201 63.4 31.9 95.9





#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

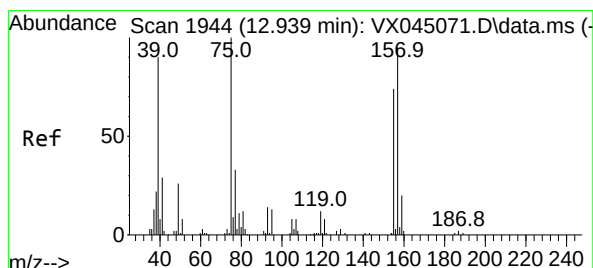
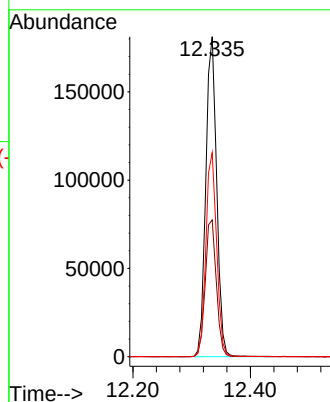
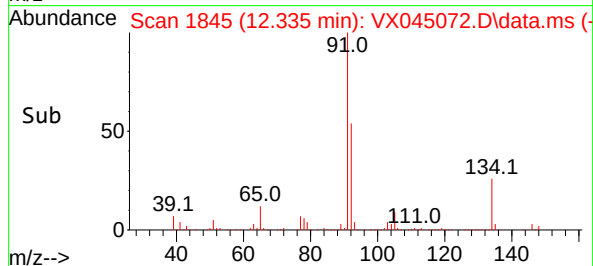
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:146 Resp: 23312
Ion Ratio Lower Upper
146 100
111 43.7 21.6 65.0
148 63.2 31.9 95.9

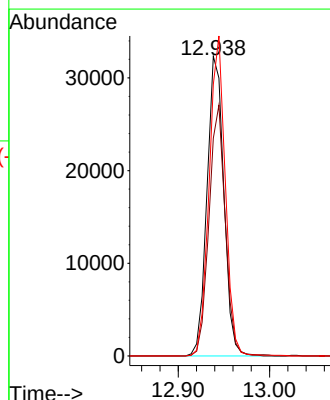
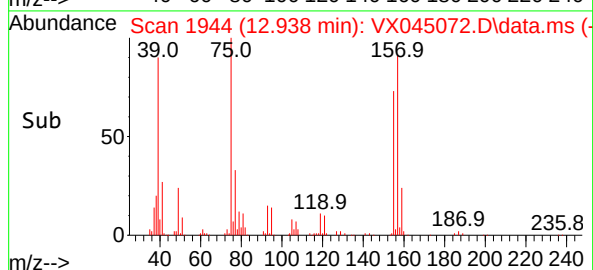
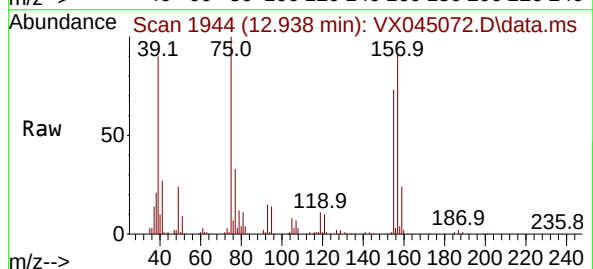
Manual Integrations
APPROVED

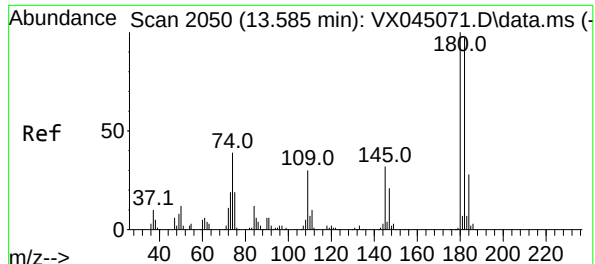
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

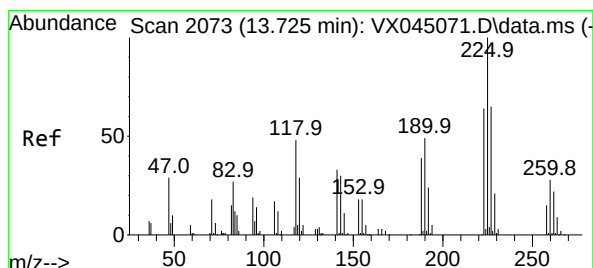
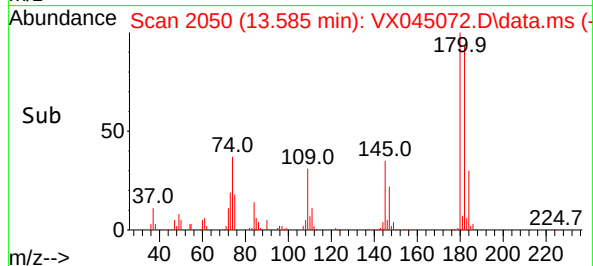
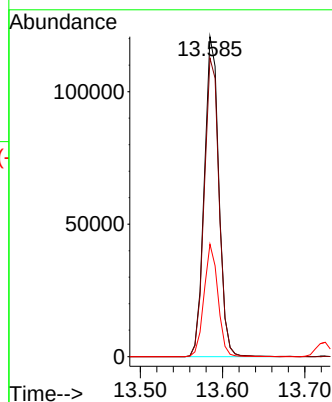
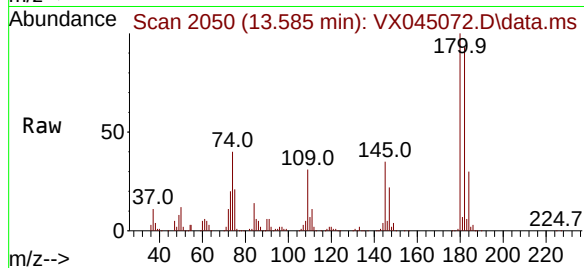
145 33.6 16.3 48.9

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

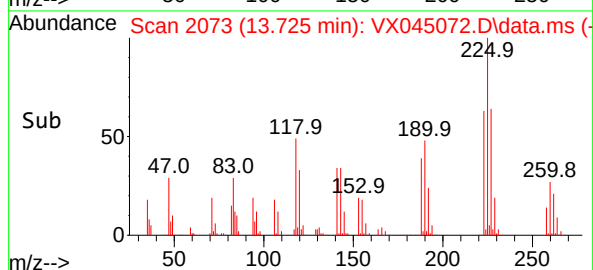
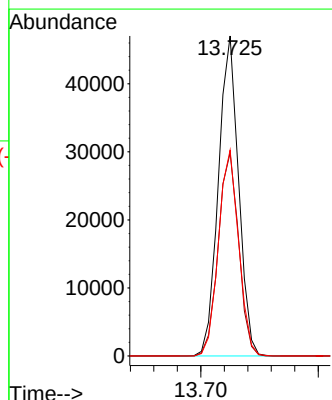
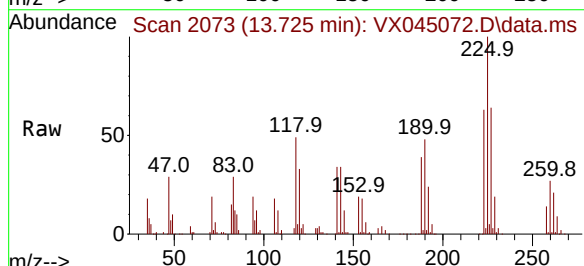
Tgt Ion:225 Resp: 56065

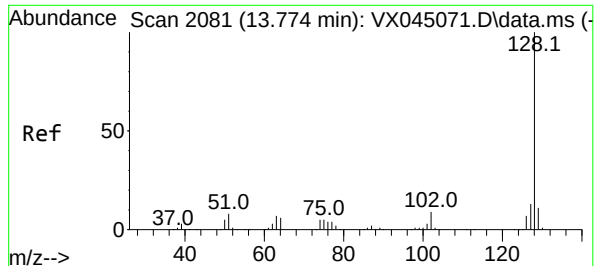
Ion Ratio Lower Upper

225 100

223 64.1 31.9 95.7

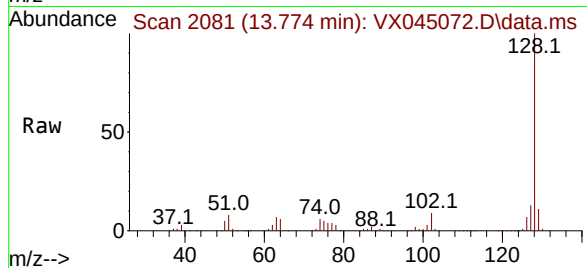
227 64.4 31.4 94.0





#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

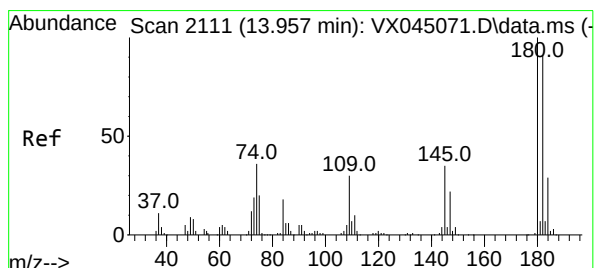
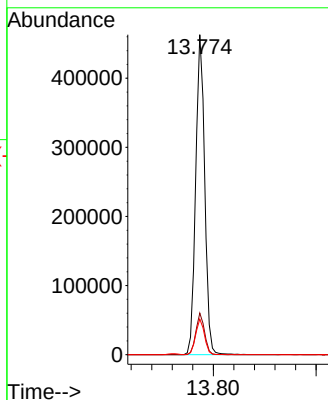
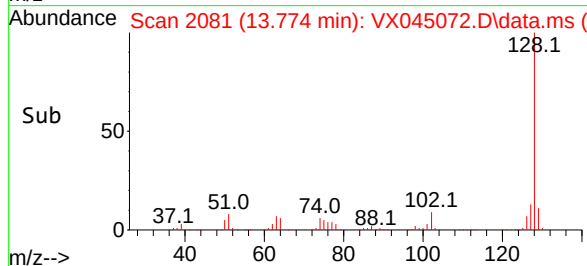
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



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

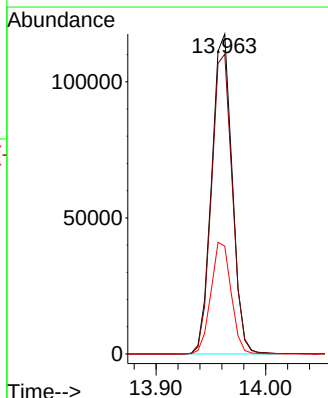
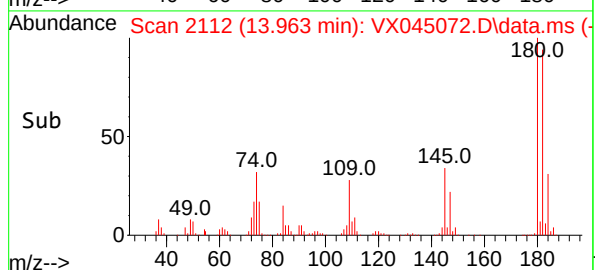
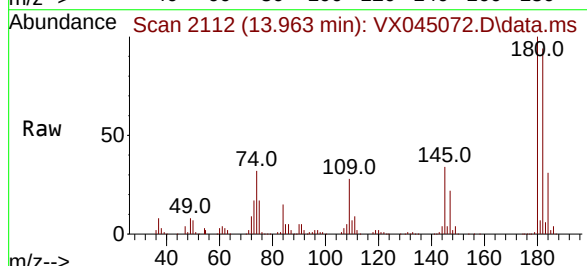
Manual Integrations
APPROVED

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

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)
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

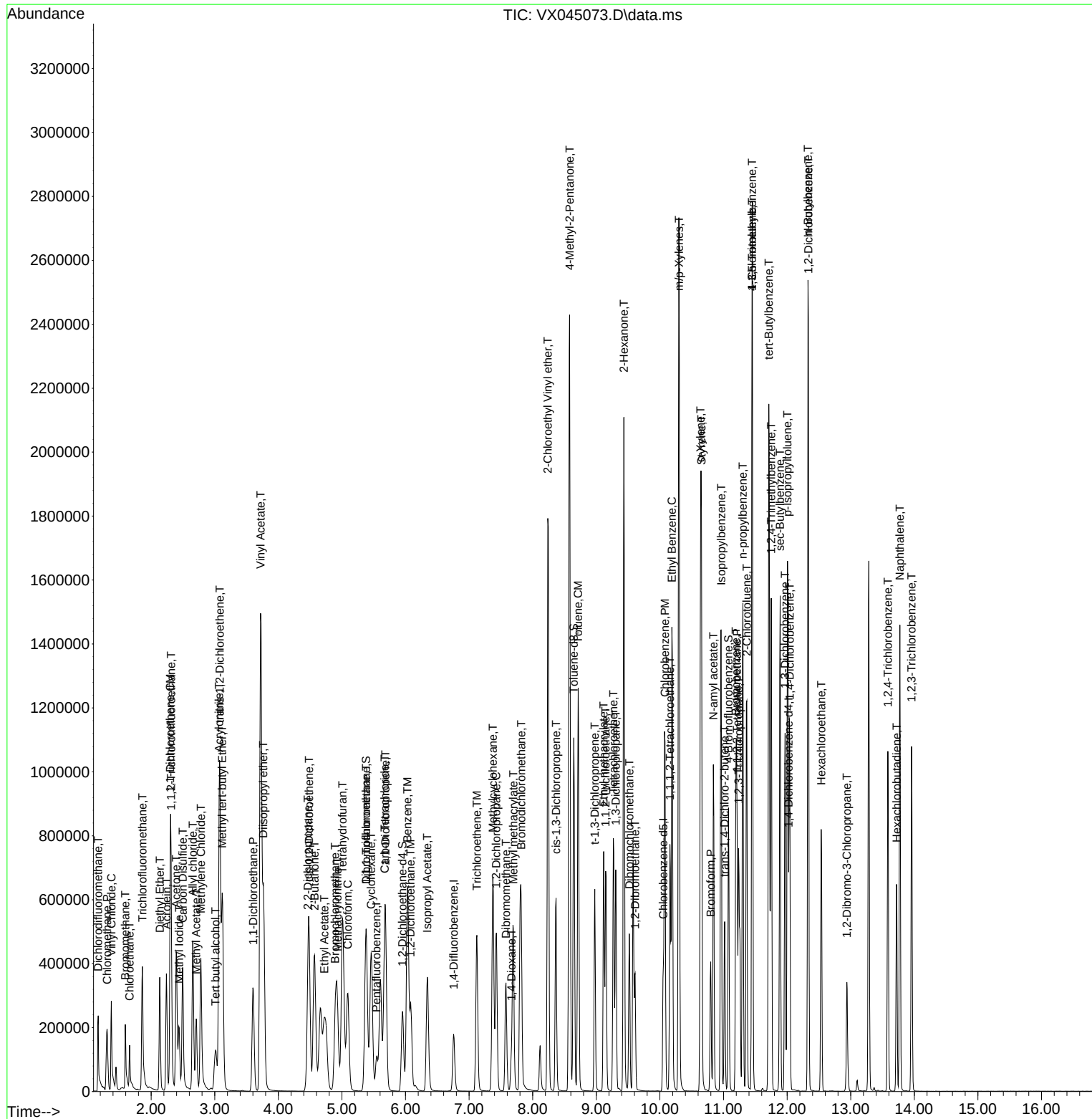
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

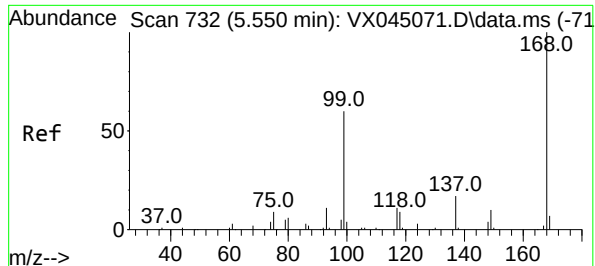
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations

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





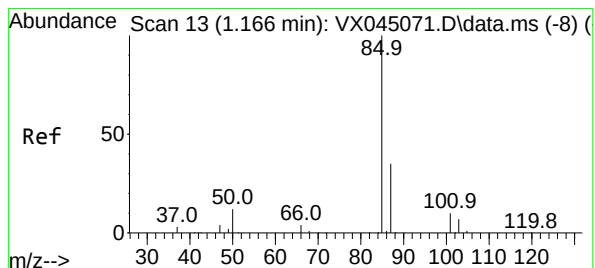
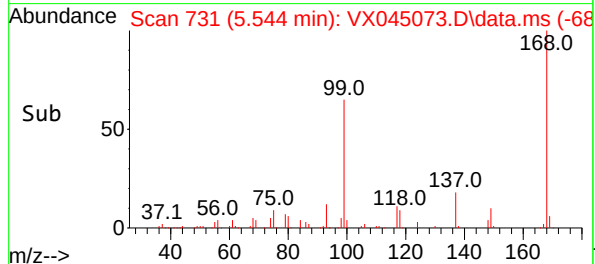
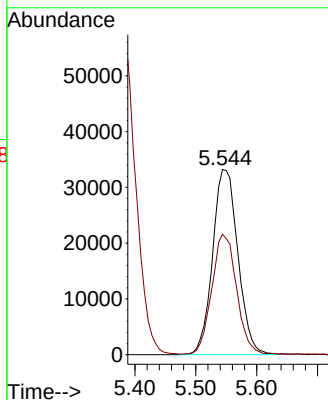
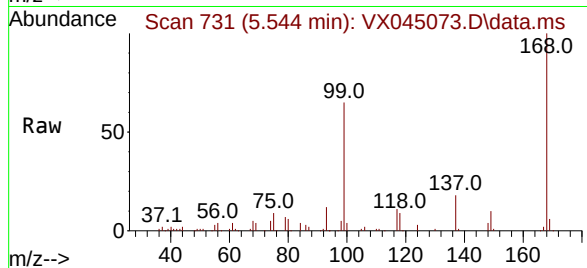
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion:168 Resp: 95754
Ion Ratio Lower Upper
168 100
99 64.8 48.2 72.4

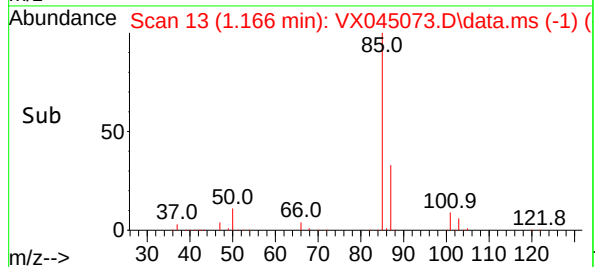
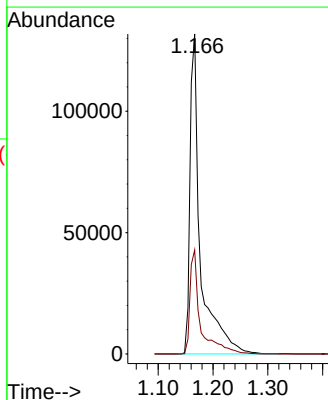
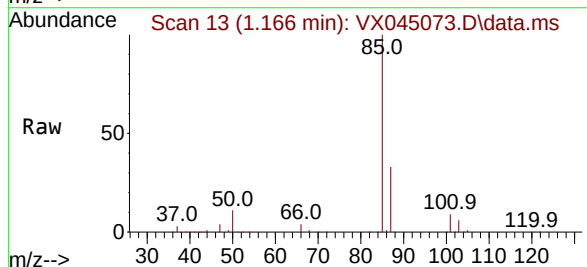
Manual Integrations
APPROVED

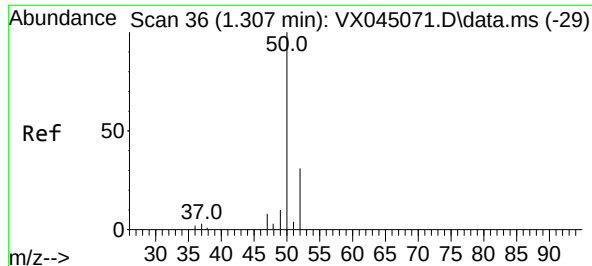
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

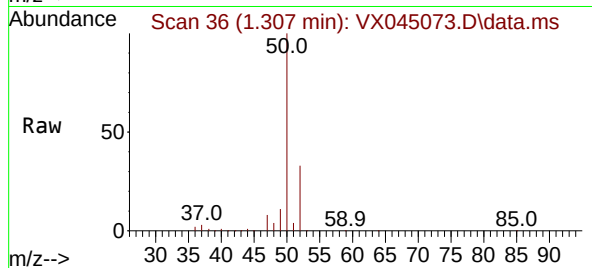
Tgt Ion: 85 Resp: 174297
Ion Ratio Lower Upper
85 100
87 32.5 17.4 52.3





#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

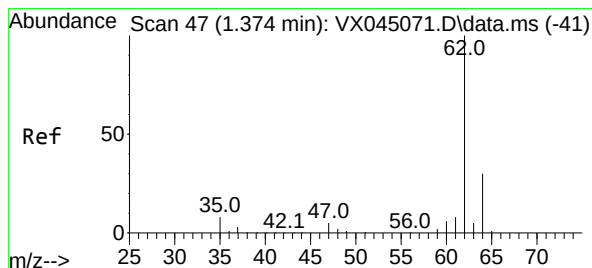
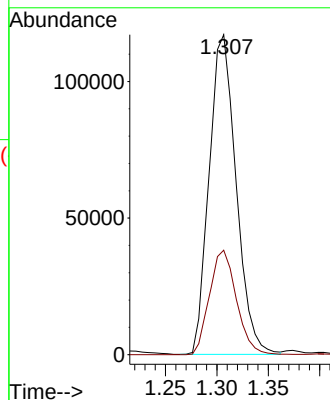
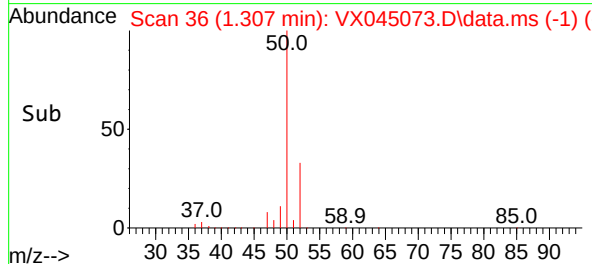
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 50 Resp: 213704
Ion Ratio Lower Upper
50 100
52 32.7 25.0 37.4

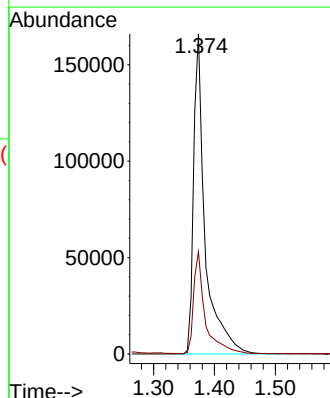
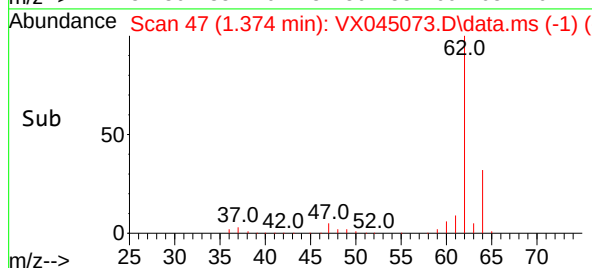
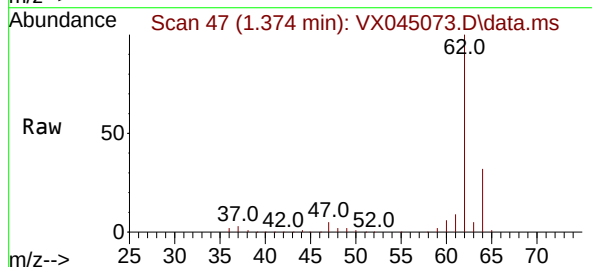
Manual Integrations
APPROVED

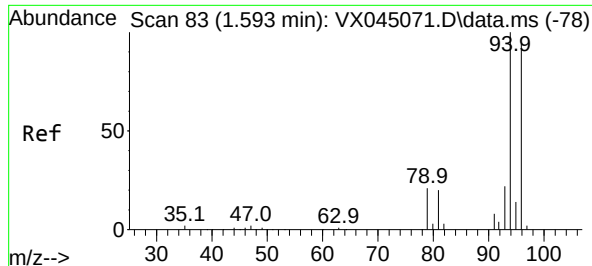
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





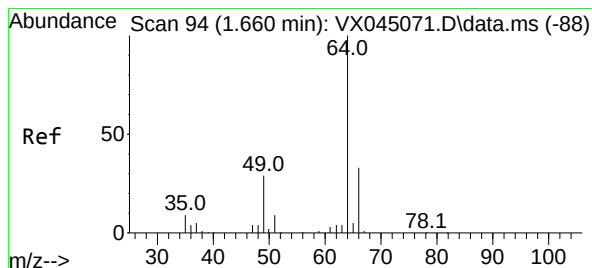
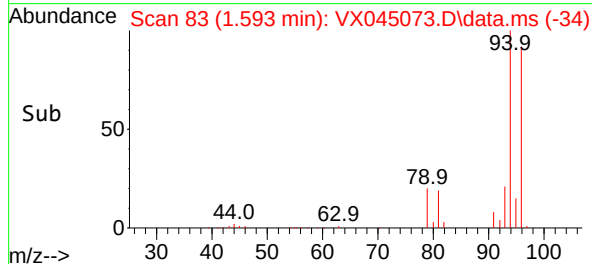
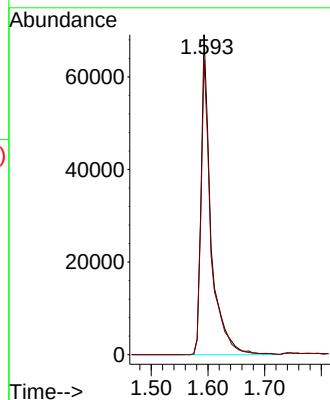
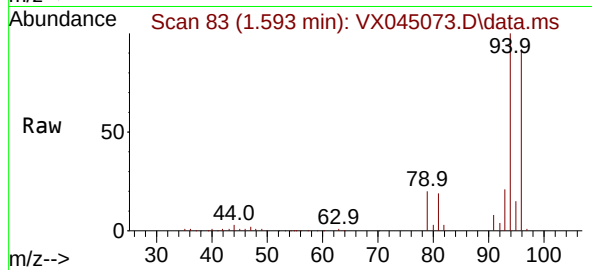
#5
Bromomethane
Concen: 170.379 ug/l
RT: 1.593 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 8354
Ion Ratio Lower Upper
94 100
96 92.2 75.0 112.4

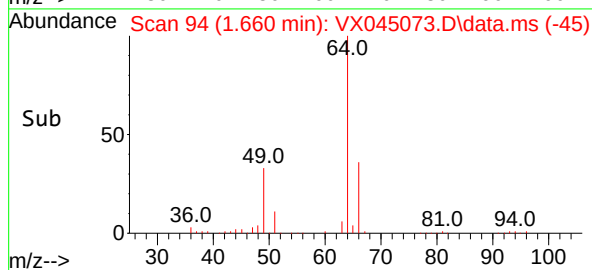
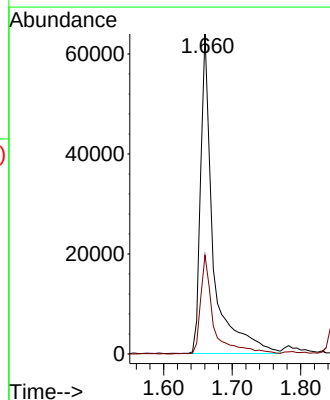
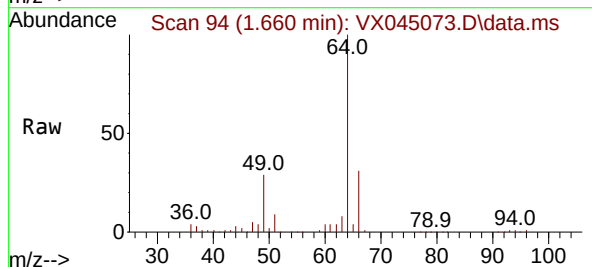
Manual Integrations
APPROVED

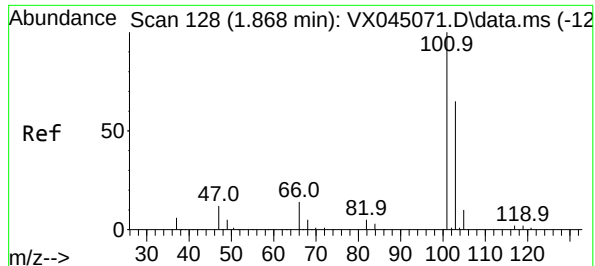
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#6
Chloroethane
Concen: 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

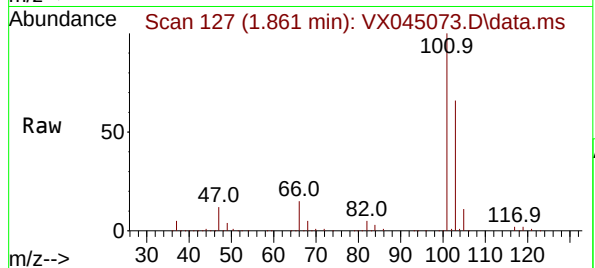
Tgt Ion: 64 Resp: 82101
Ion Ratio Lower Upper
64 100
66 30.8 26.7 40.1





#7
Trichlorofluoromethane
Concen: 135.494 ug/l
RT: 1.861 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

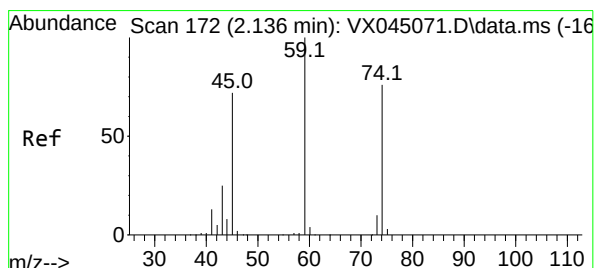
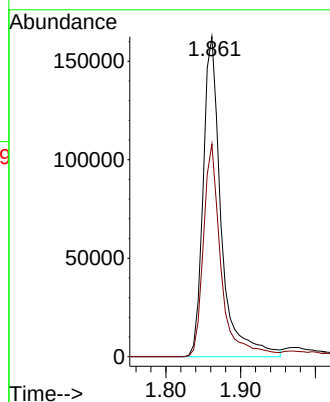
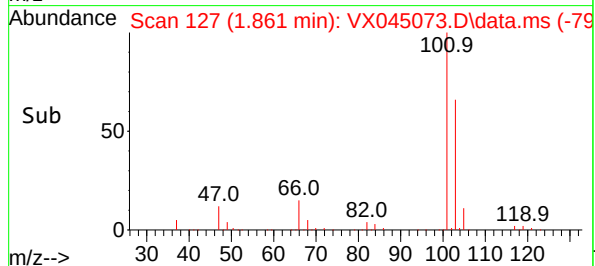
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:101 Resp: 272235
Ion Ratio Lower Upper
101 100
103 66.4 52.1 78.1

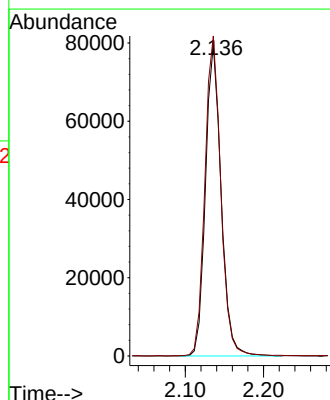
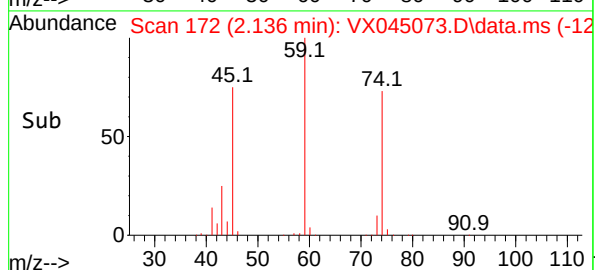
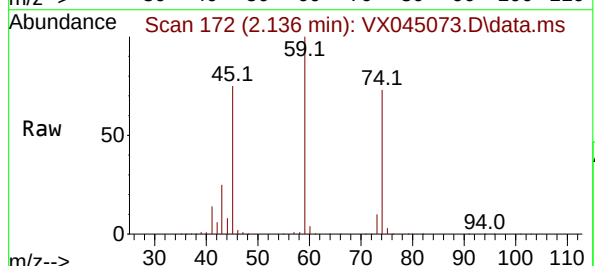
Manual Integrations
APPROVED

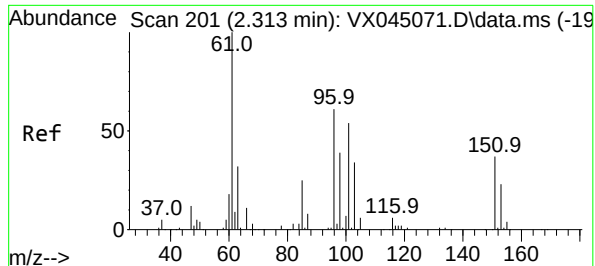
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

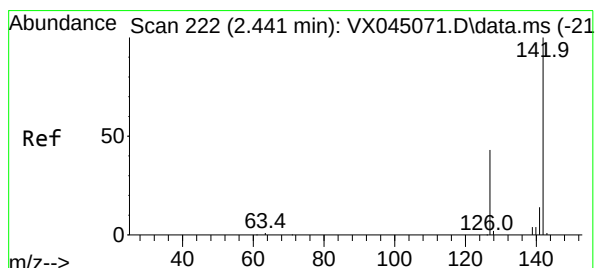
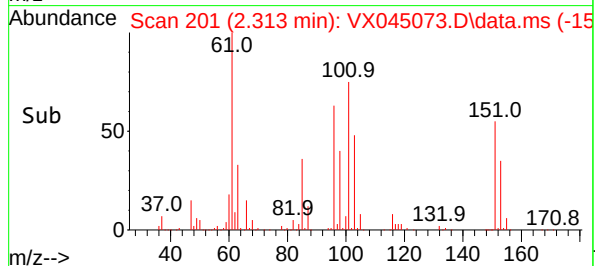
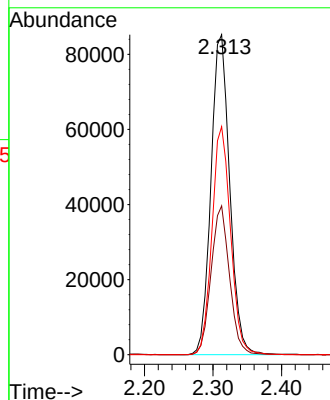
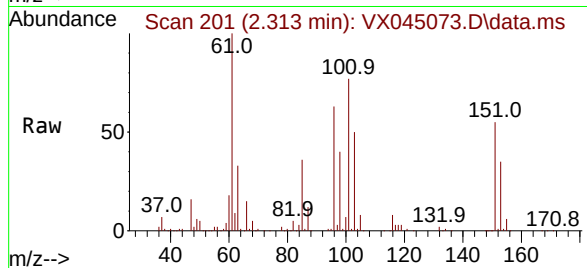
151 70.8 56.4 84.6

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

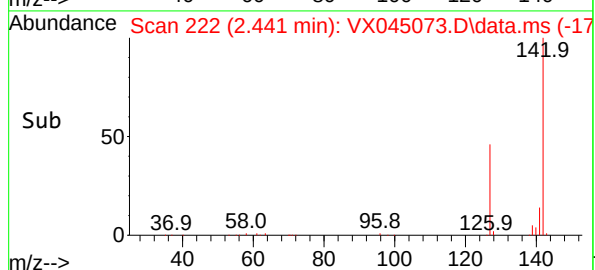
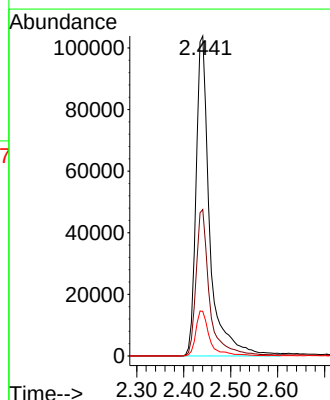
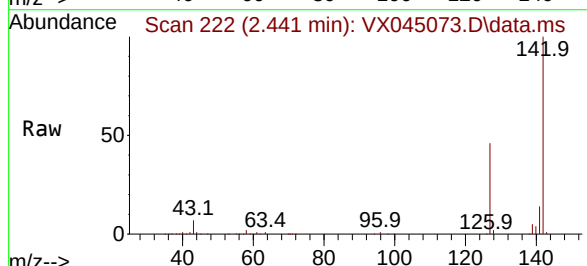
Tgt Ion:142 Resp: 212355

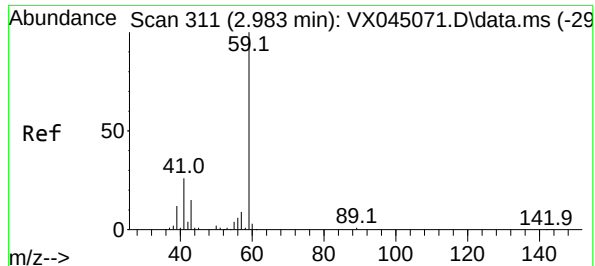
Ion Ratio Lower Upper

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

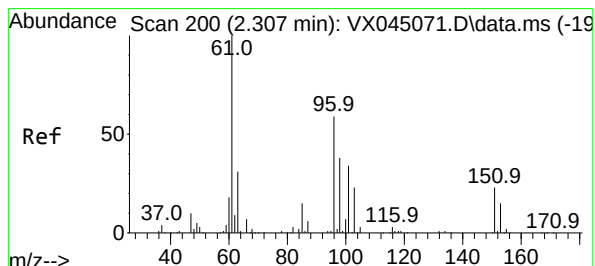
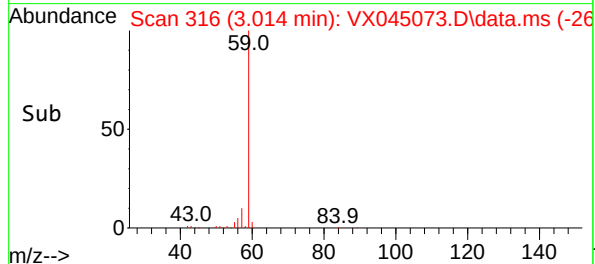
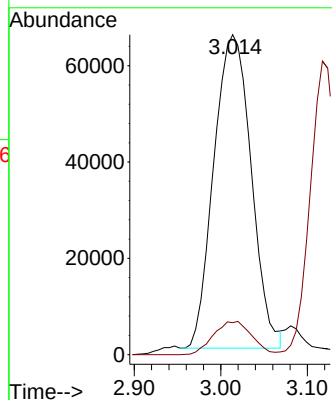
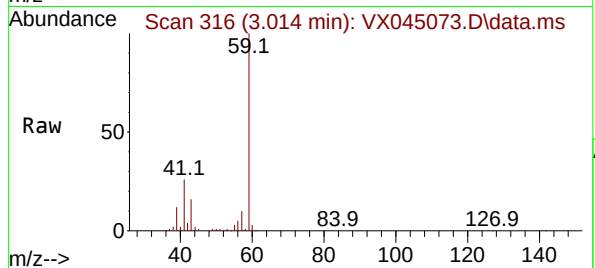
57 10.9 7.8 11.8

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

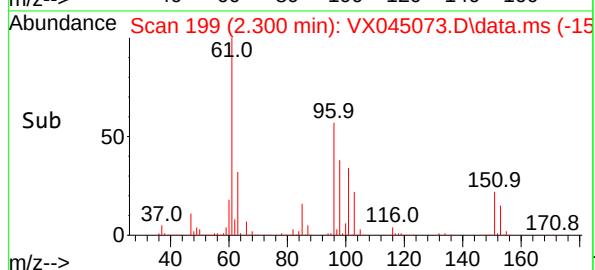
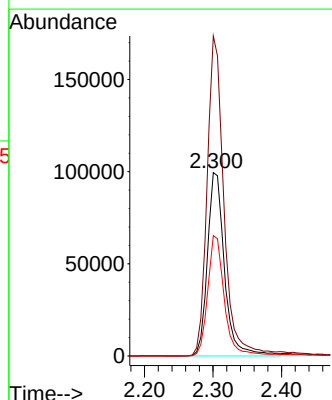
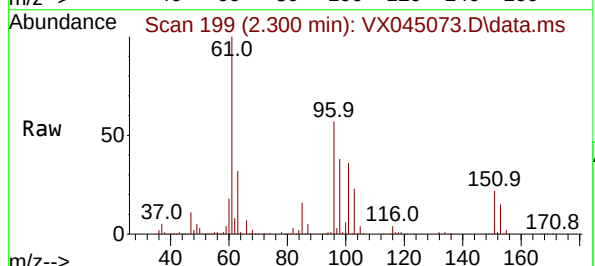
Tgt Ion: 96 Resp: 173271

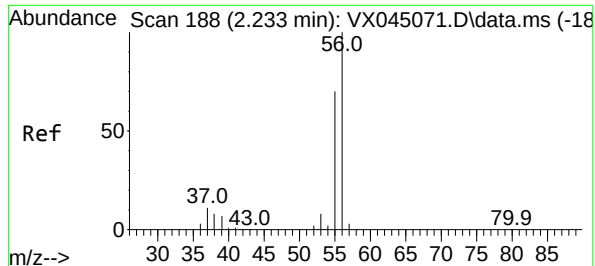
Ion Ratio Lower Upper

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

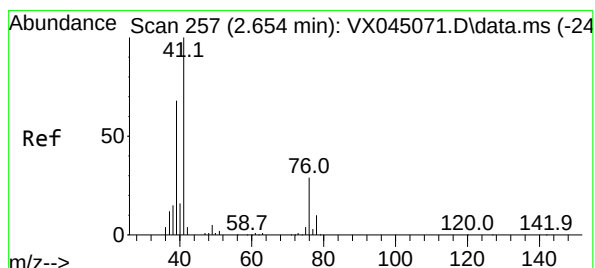
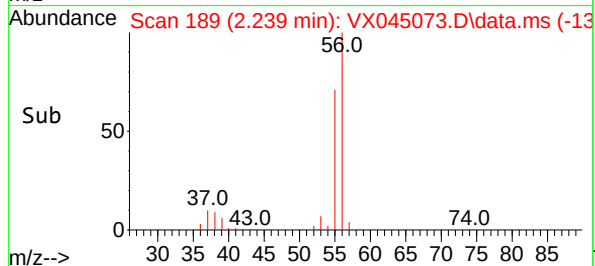
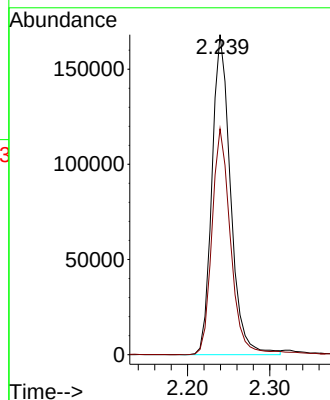
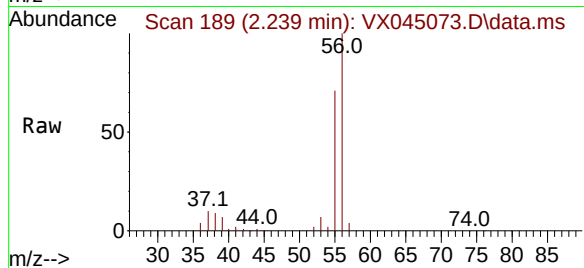
55 71.6 56.2 84.4

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

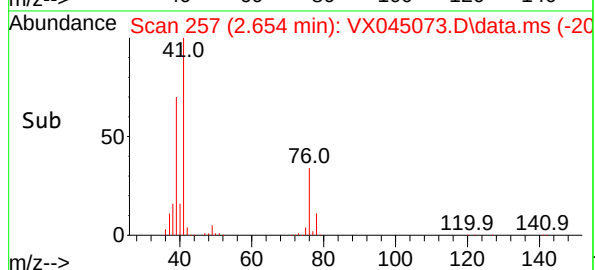
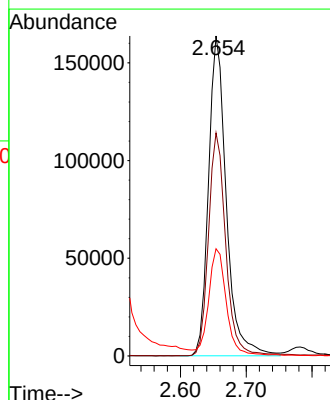
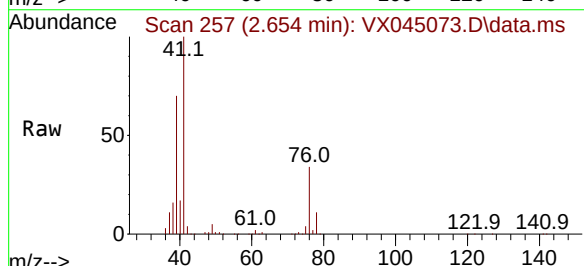
Tgt Ion: 41 Resp: 308018

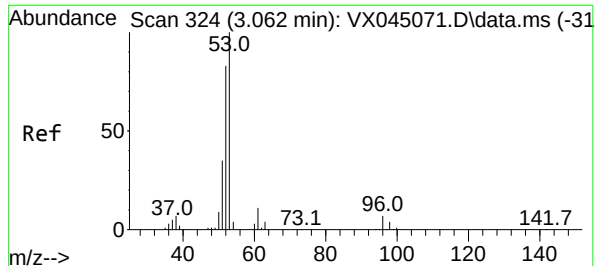
Ion Ratio Lower Upper

41 100

39 67.9 53.8 80.8

76 33.8 25.2 37.8





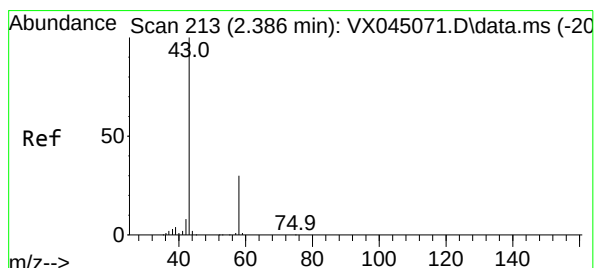
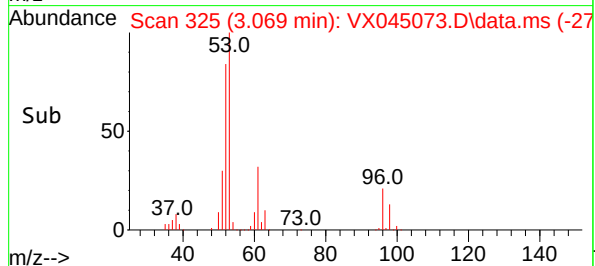
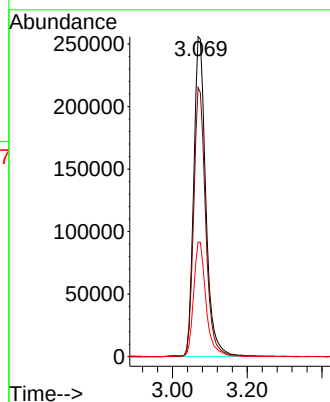
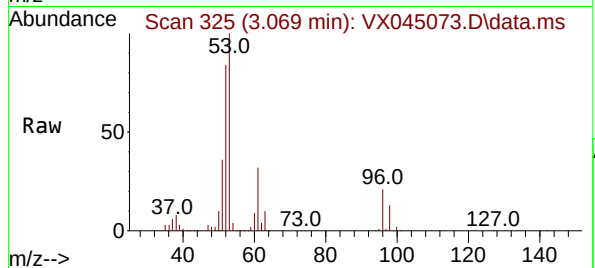
#15
Acrylonitrile
Concen: 813.990 ug/l
RT: 3.069 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

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

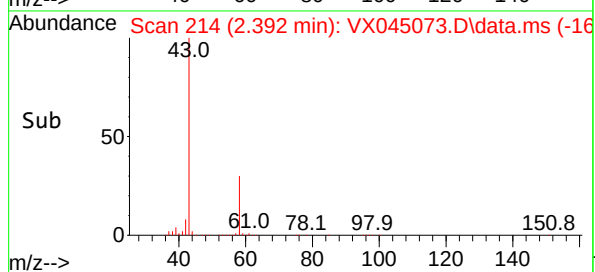
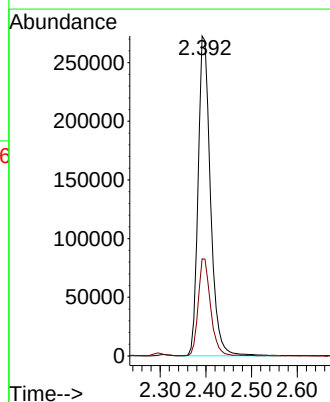
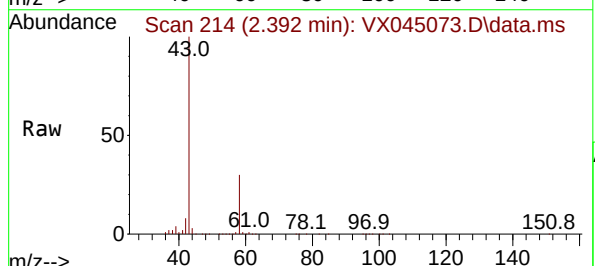
Manual Integrations
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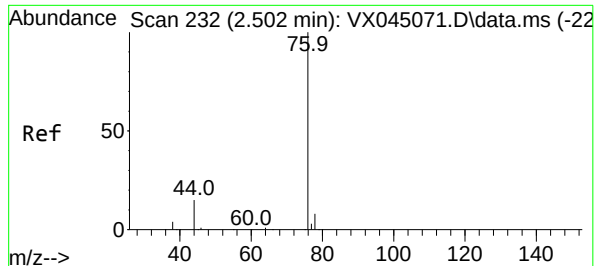
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

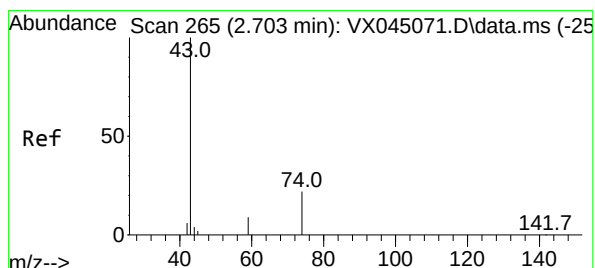
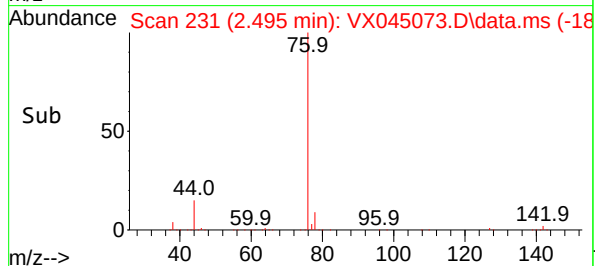
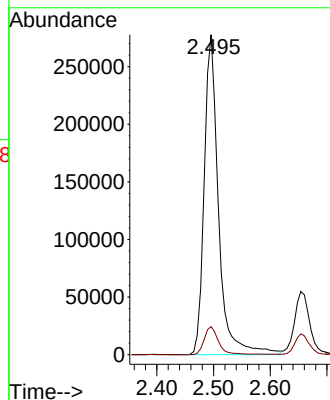
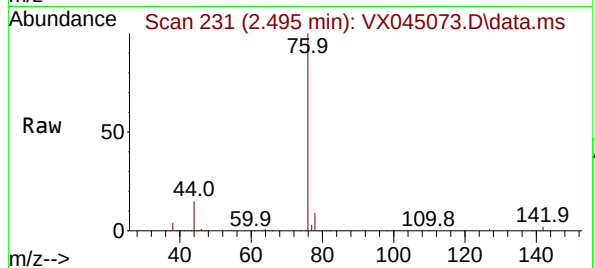
78 8.8 6.6 9.8

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

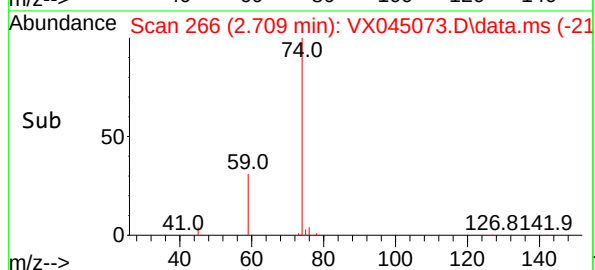
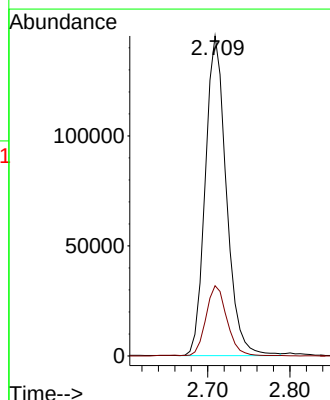
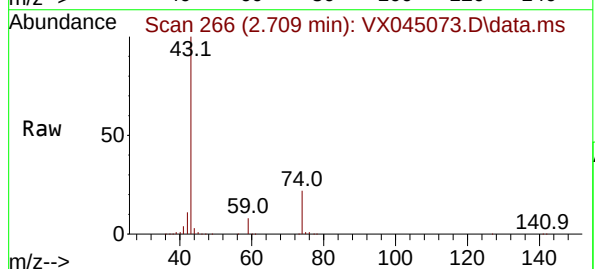
Acq: 28 Feb 2025 03:47

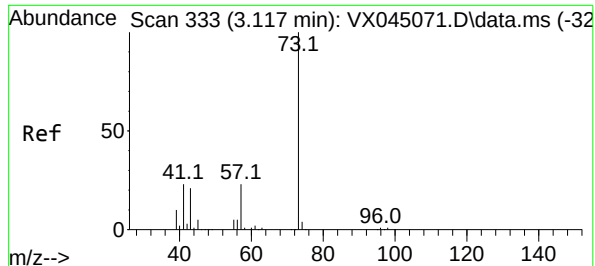
Tgt Ion: 43 Resp: 258303

Ion Ratio Lower Upper

43 100

74 22.0 17.4 26.2





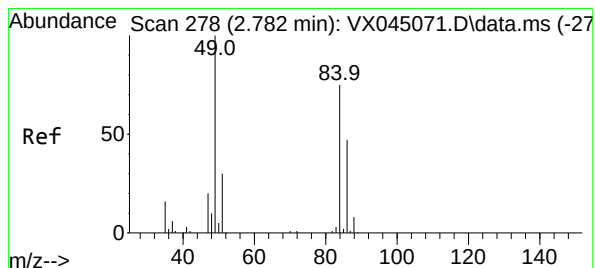
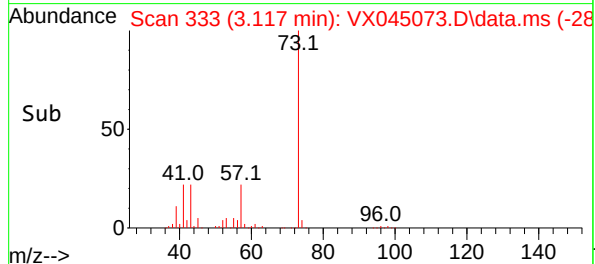
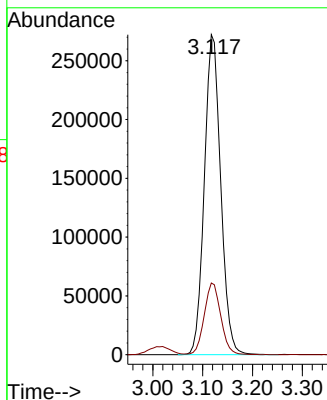
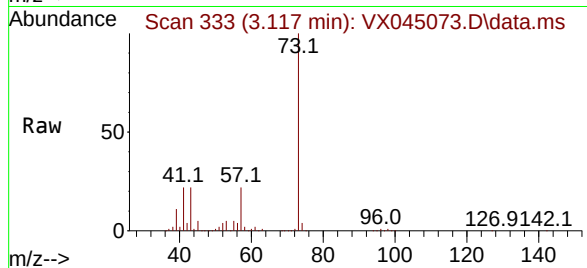
#19
Methyl tert-butyl Ether
Concen: 157.358 ug/l
RT: 3.117 min Scan# 311
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion: 73 Resp: 619778
Ion Ratio Lower Upper
73 100
57 22.4 18.5 27.7

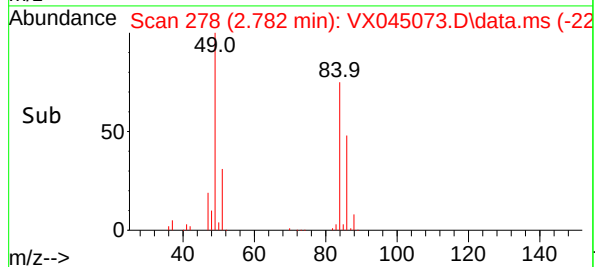
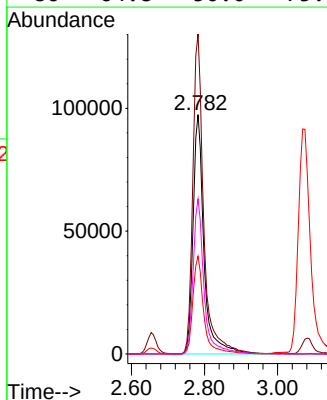
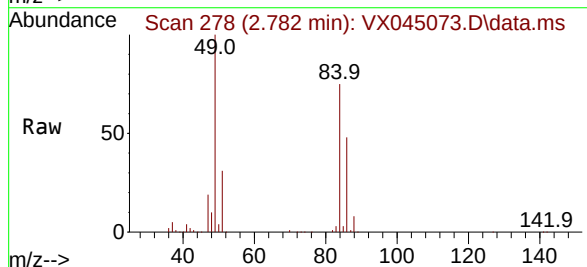
Manual Integrations
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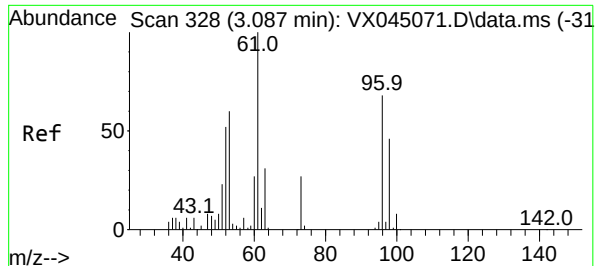
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





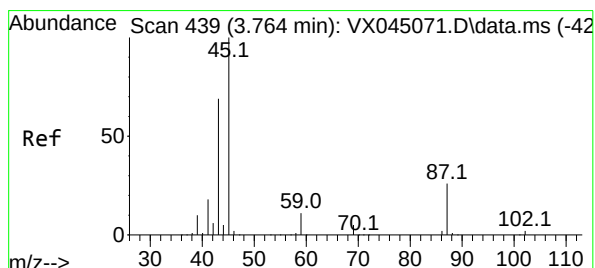
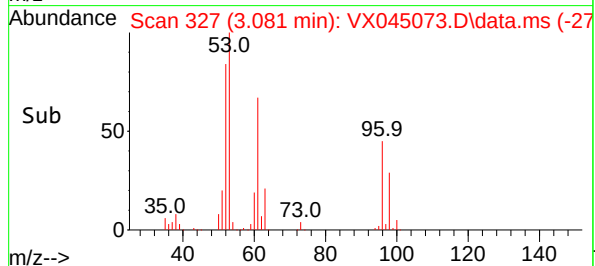
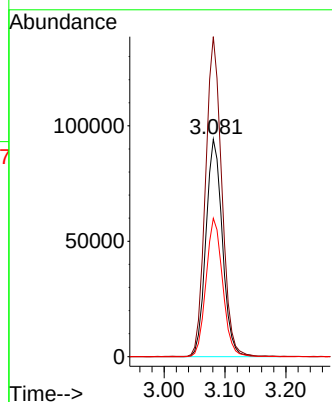
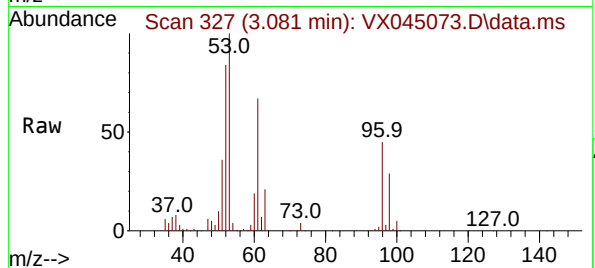
#21
trans-1,2-Dichloroethene
Concen: 146.027 ug/l
RT: 3.081 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

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

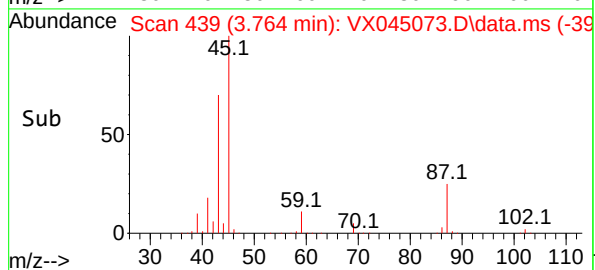
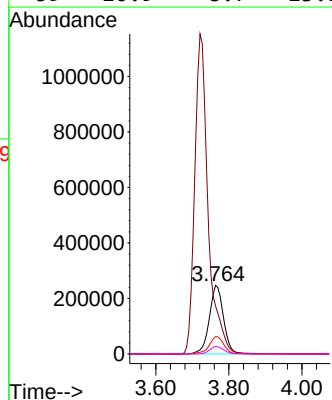
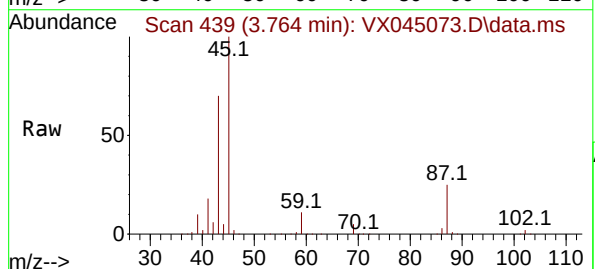
Manual Integrations
APPROVED

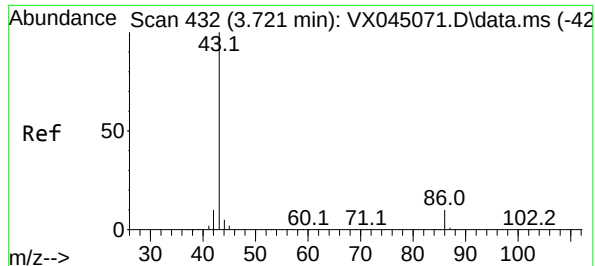
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





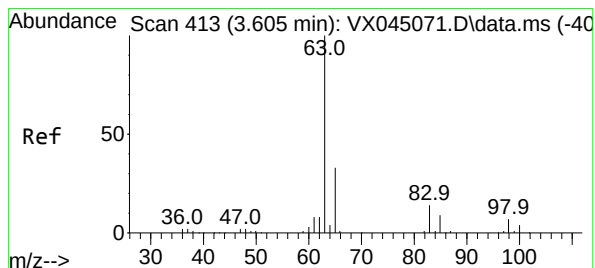
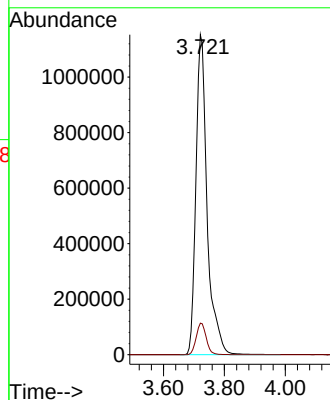
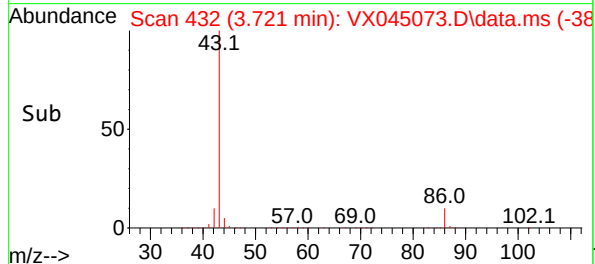
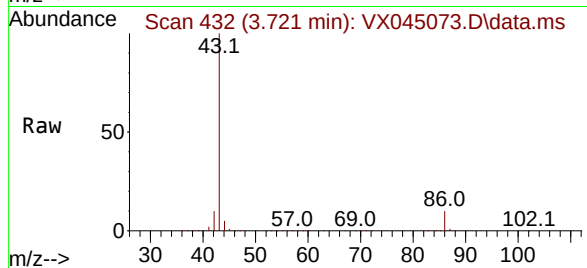
#23
Vinyl Acetate
Concen: 846.586 ug/l
RT: 3.721 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 2943150
Ion Ratio Lower Upper
43 100
86 9.8 8.1 12.1

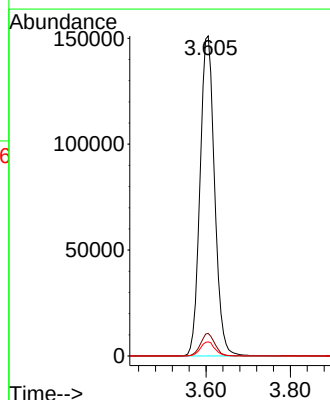
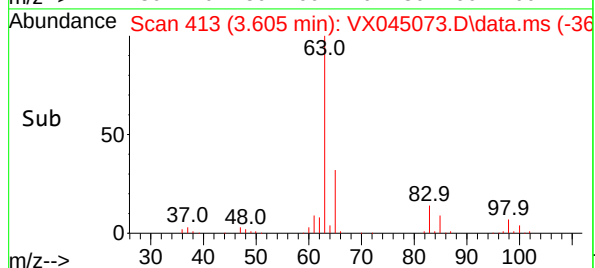
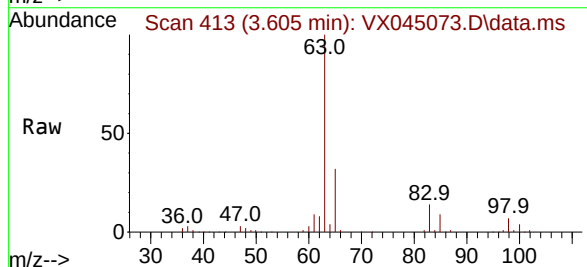
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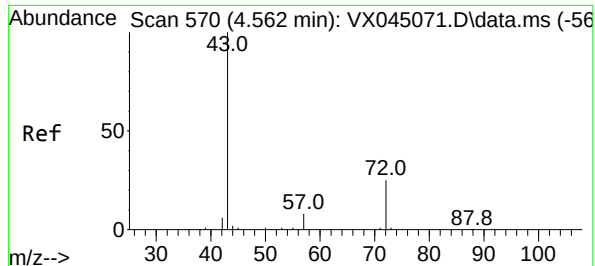
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

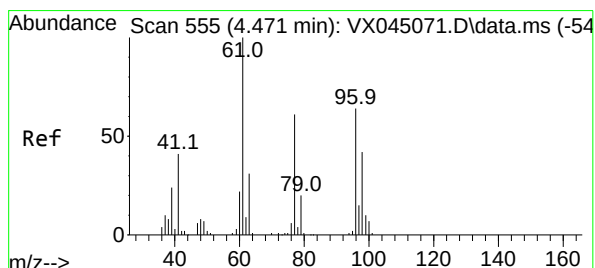
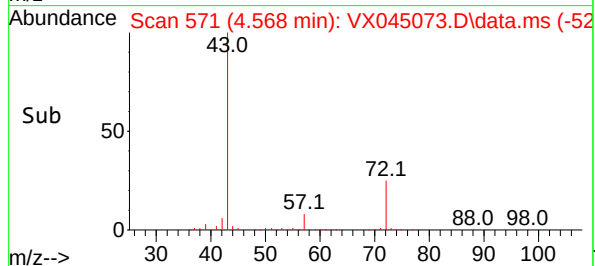
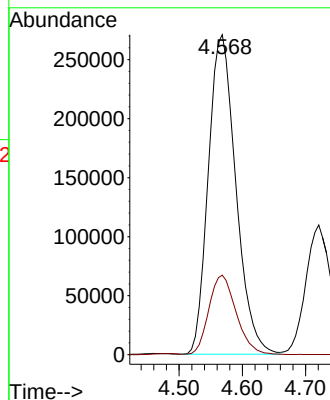
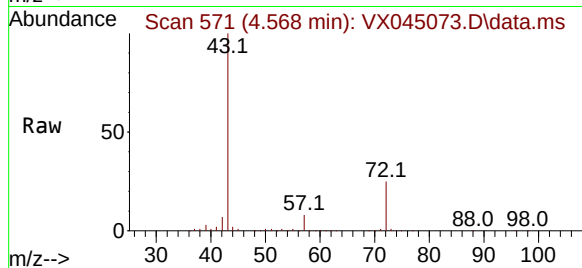
30.0

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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

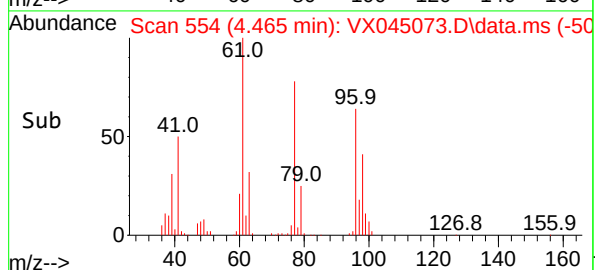
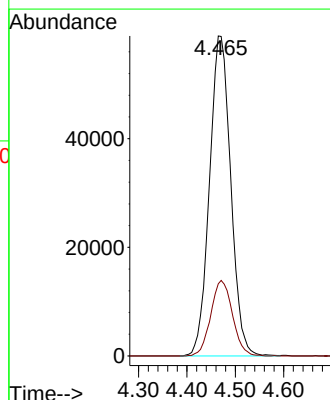
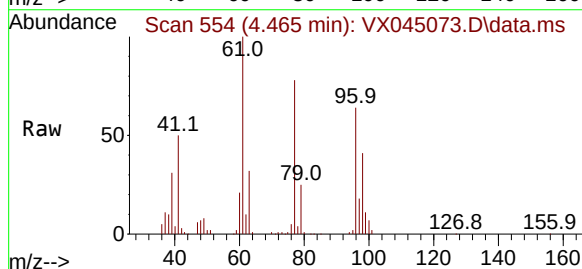
100

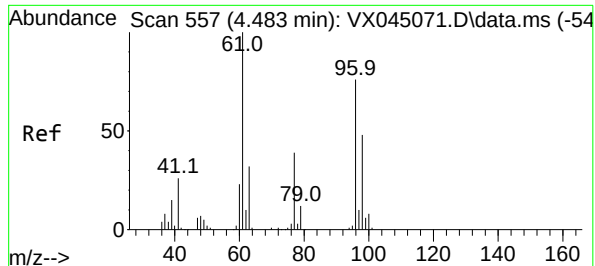
97

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

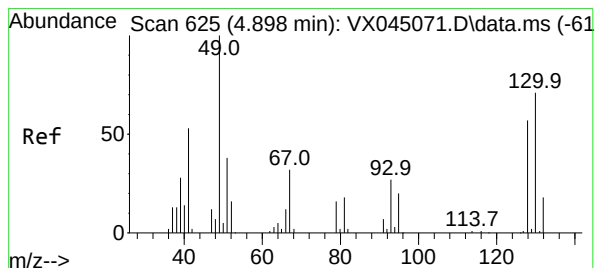
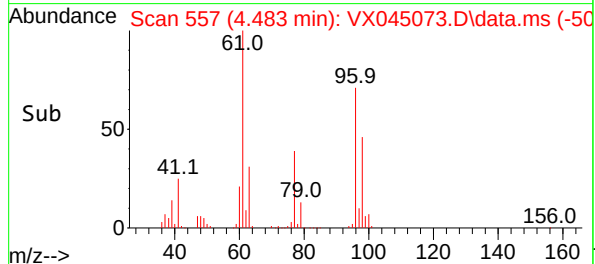
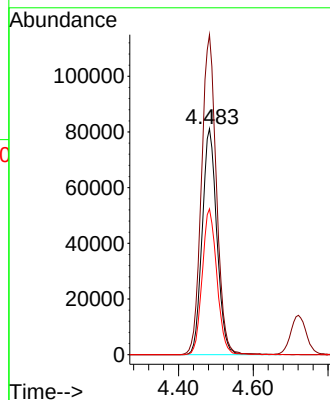
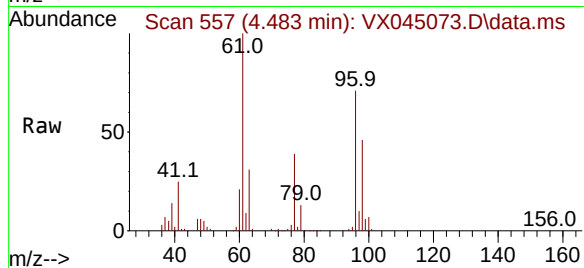
98 64.3 0.0 128.0

Manual Integrations

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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

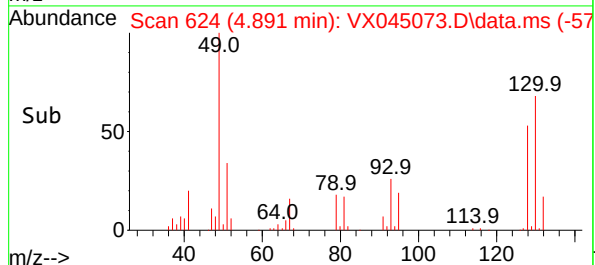
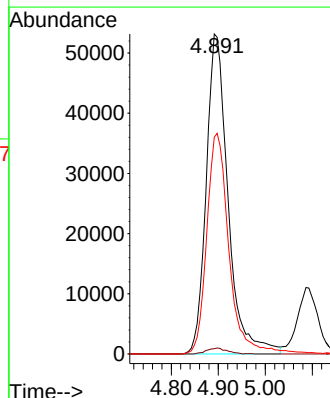
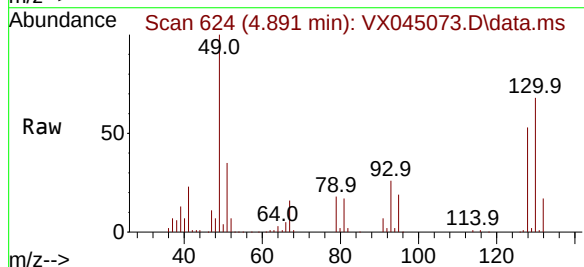
Tgt Ion: 49 Resp: 171273

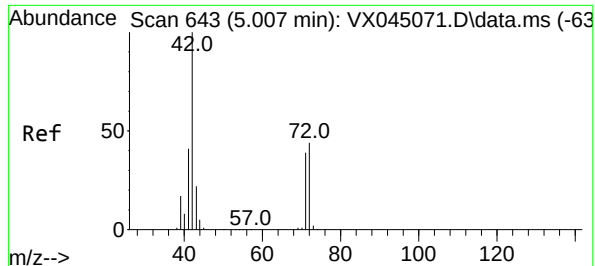
Ion Ratio Lower Upper

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# 643

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 42 Resp: 528574

Ion Ratio Lower Upper

42 100

72 42.8 34.1 51.1

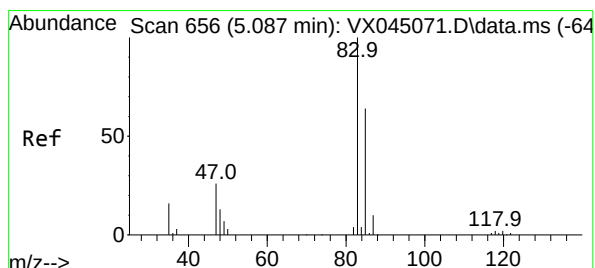
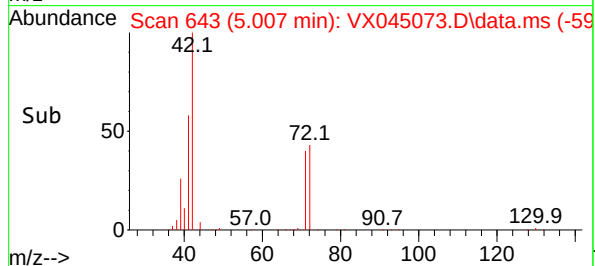
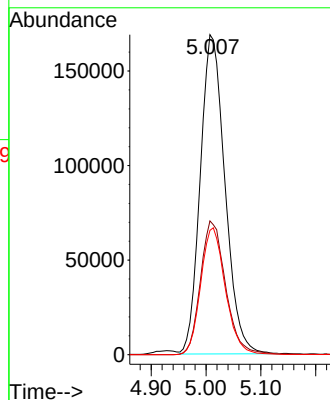
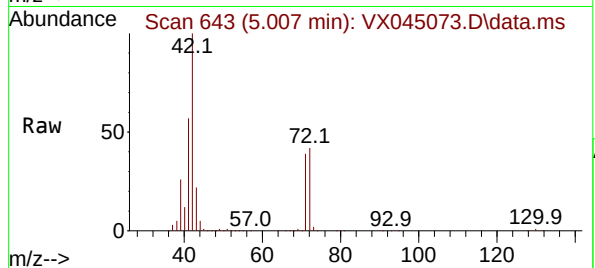
71 39.7 31.4 47.0

Manual Integrations

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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

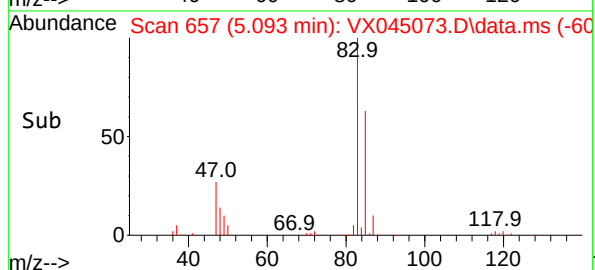
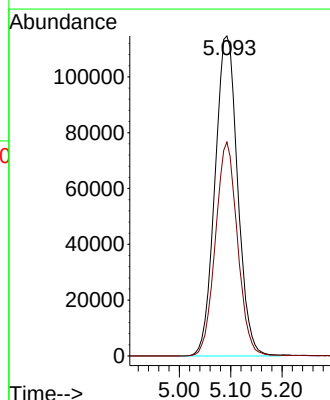
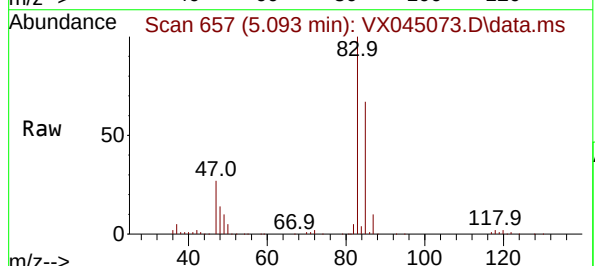
Acq: 28 Feb 2025 03:47

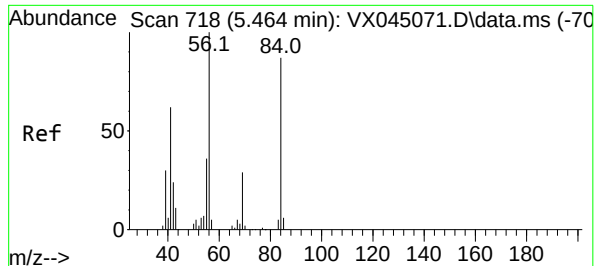
Tgt Ion: 83 Resp: 351934

Ion Ratio Lower Upper

83 100

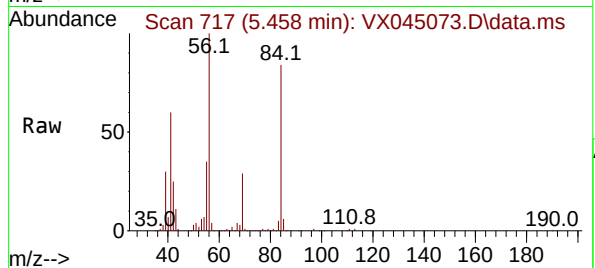
85 66.9 51.4 77.2





#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

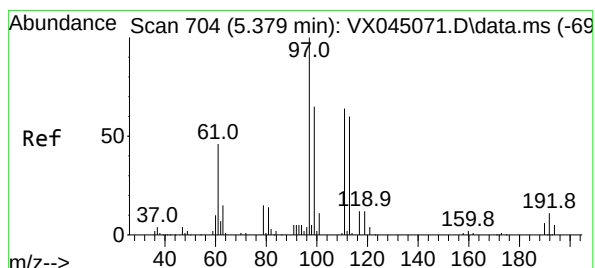
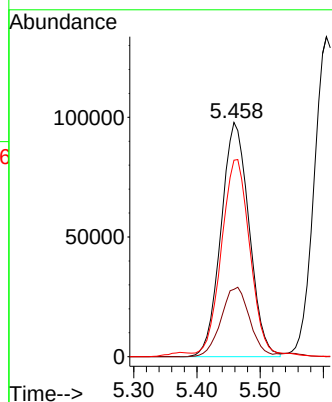
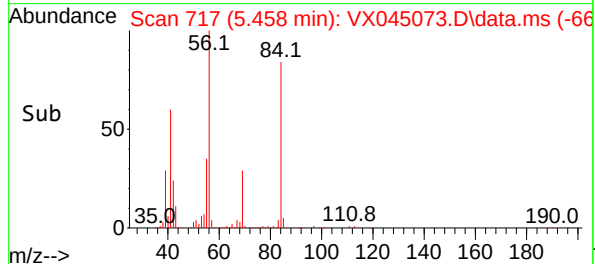
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



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

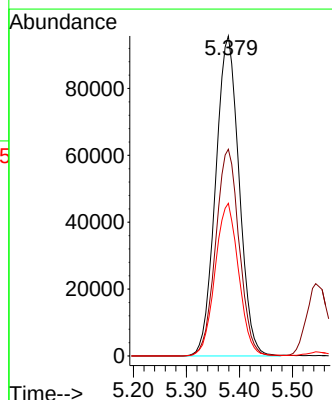
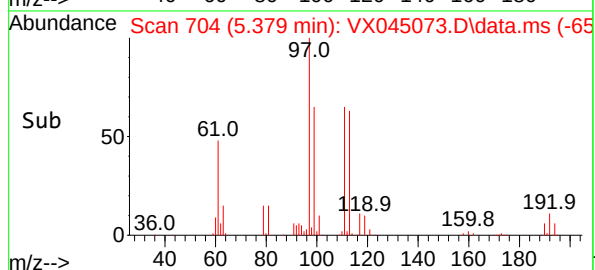
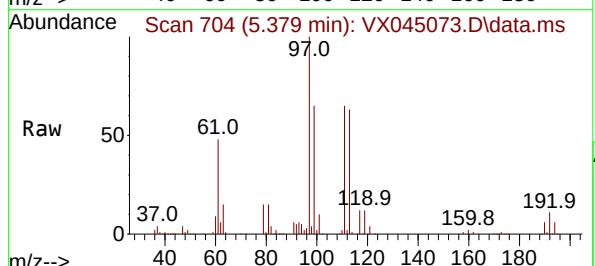
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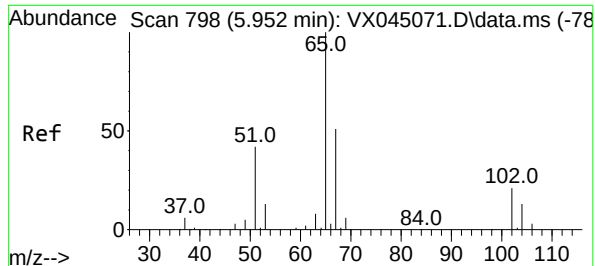
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

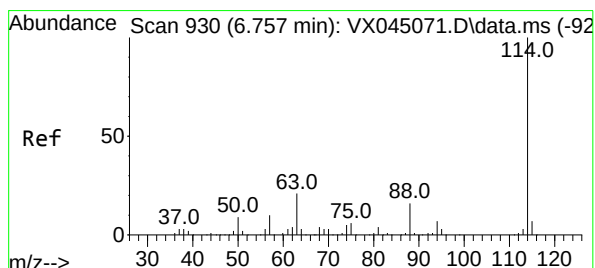
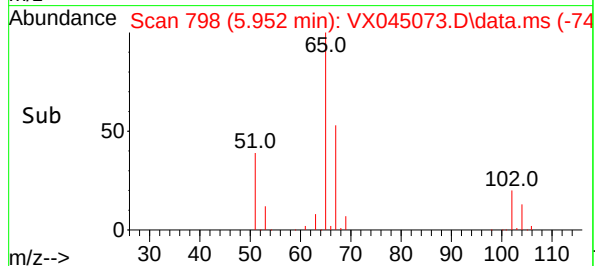
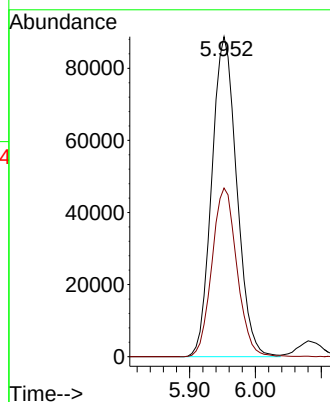
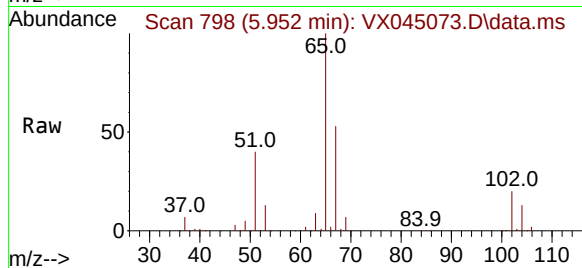
67 52.7 0.0 106.2

Manual Integrations

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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

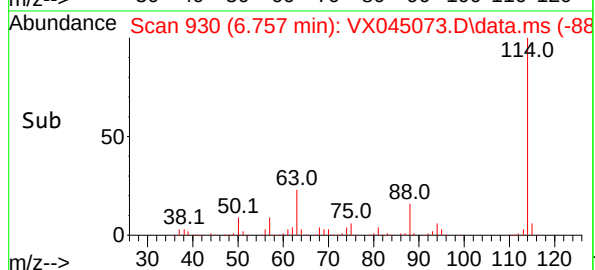
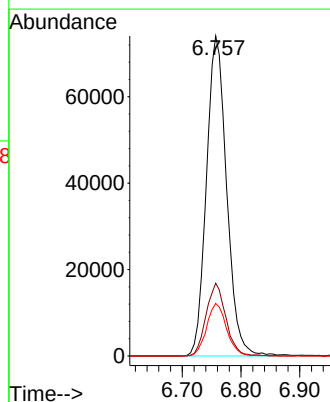
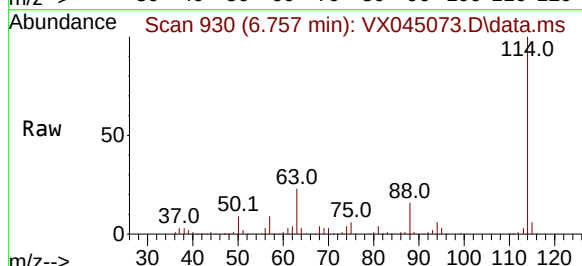
Tgt Ion:114 Resp: 176991

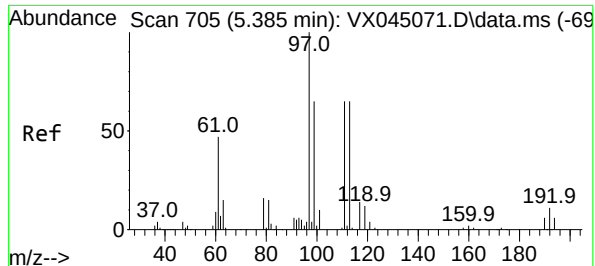
Ion Ratio Lower Upper

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: 17972

Ion Ratio Lower Upper

113 100

111 102.7 81.8 122.6

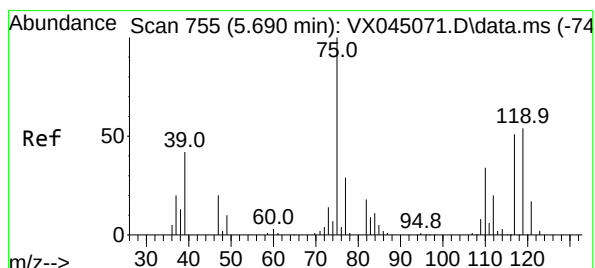
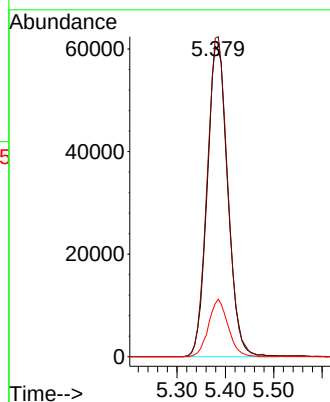
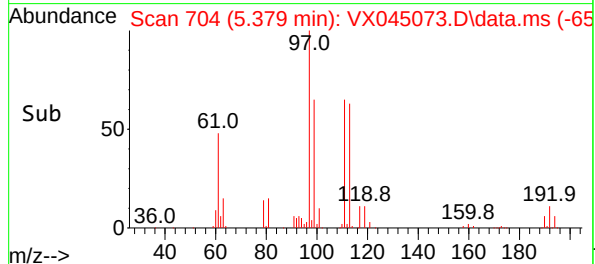
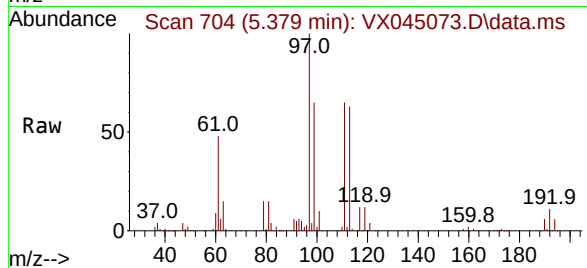
192 17.5 14.3 21.5

Manual Integrations

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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

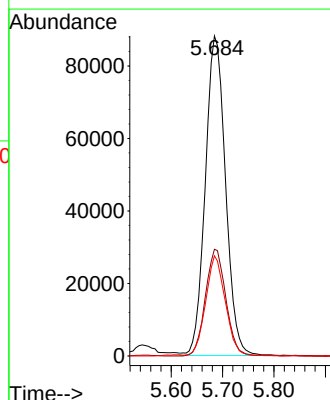
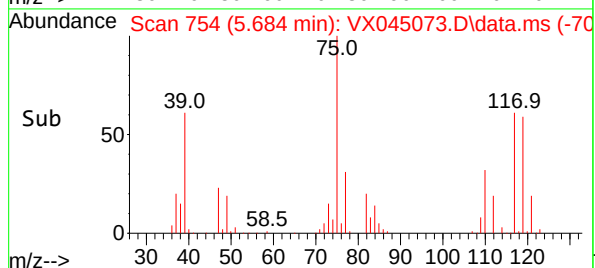
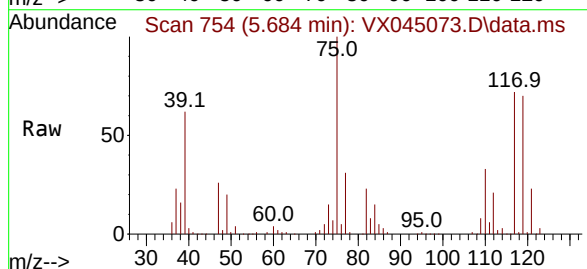
Tgt Ion: 75 Resp: 241405

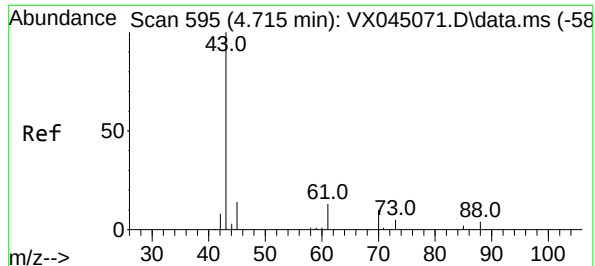
Ion Ratio Lower Upper

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

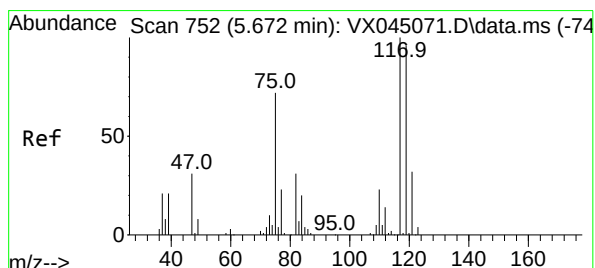
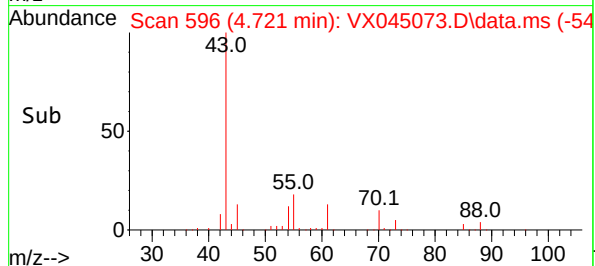
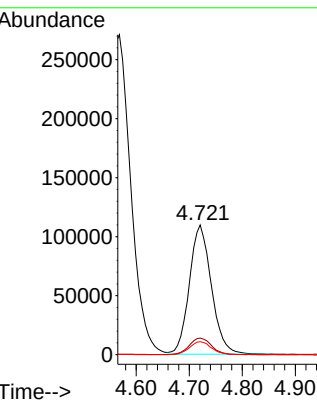
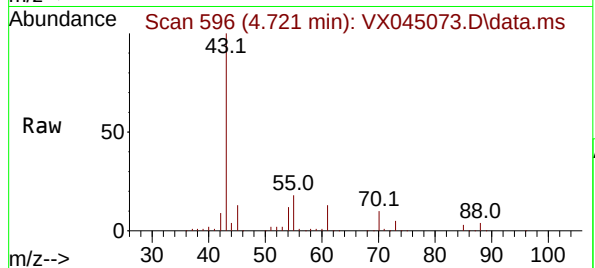
70 10.1 7.7 11.5

Manual Integrations

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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

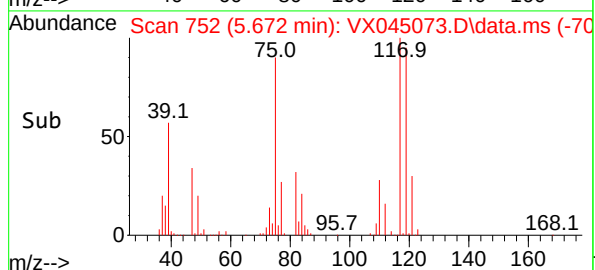
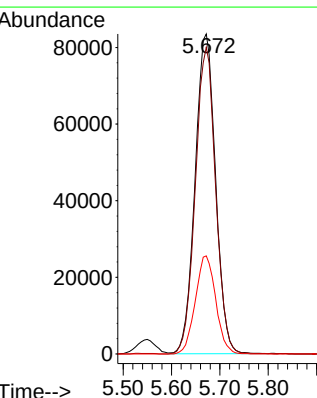
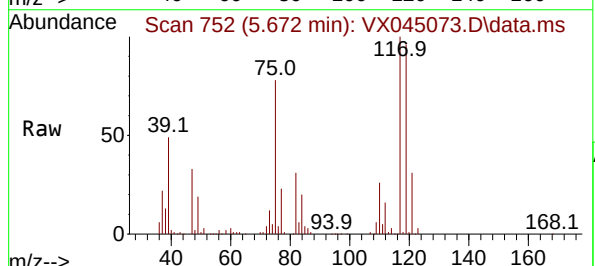
Tgt Ion:117 Resp: 245917

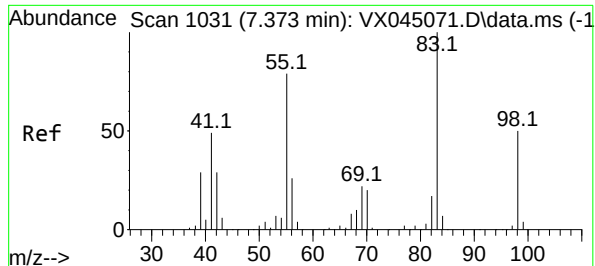
Ion Ratio Lower Upper

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

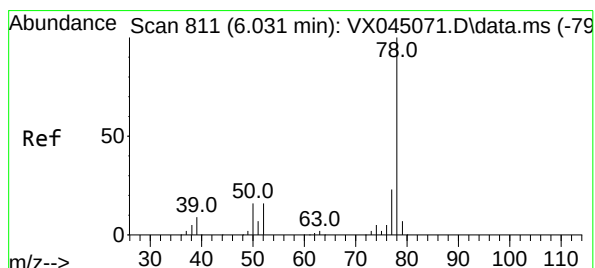
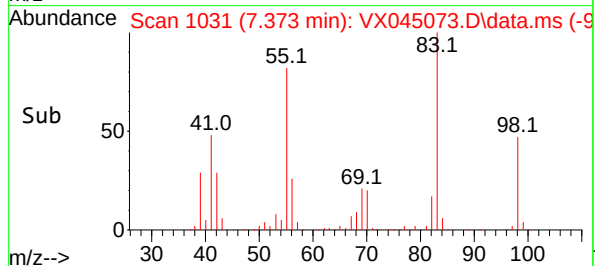
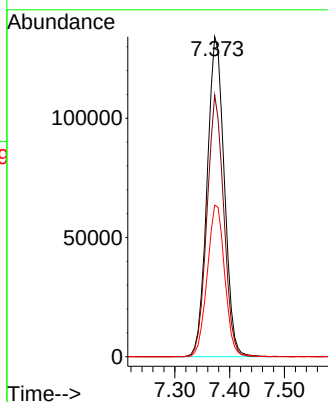
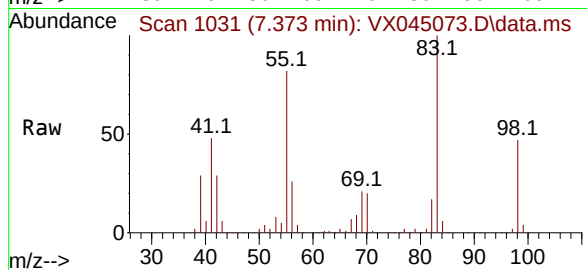
98 47.4 39.7 59.5

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

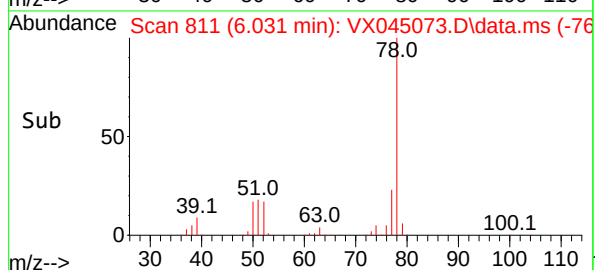
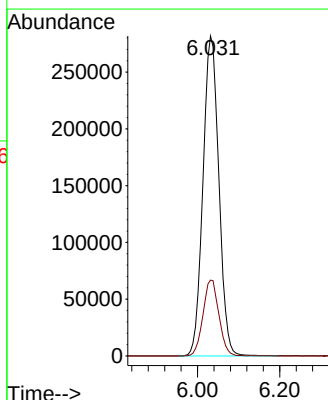
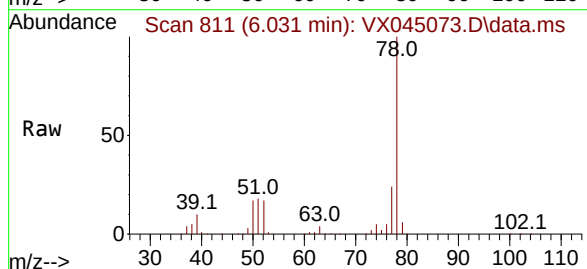
Acq: 28 Feb 2025 03:47

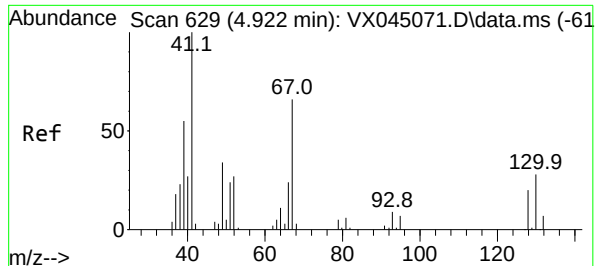
Tgt Ion: 78 Resp: 755854

Ion Ratio Lower Upper

78 100

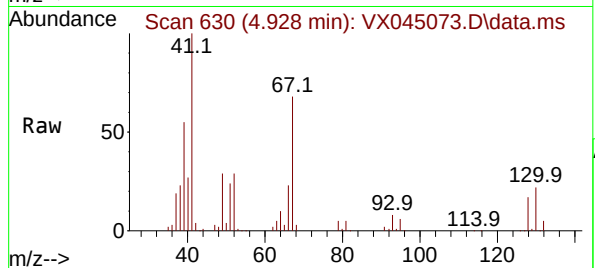
77 23.7 18.8 28.2





#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

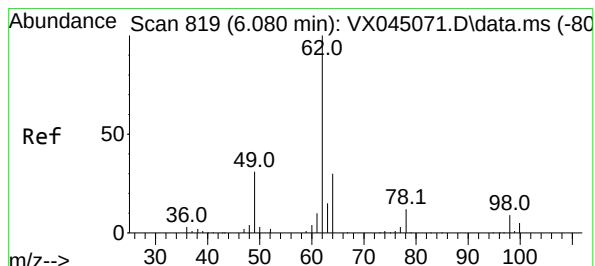
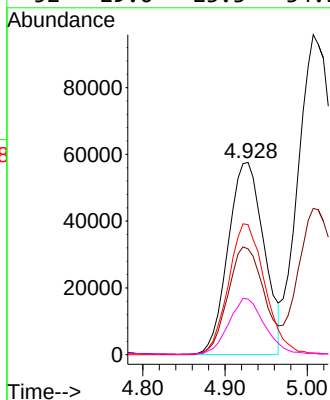
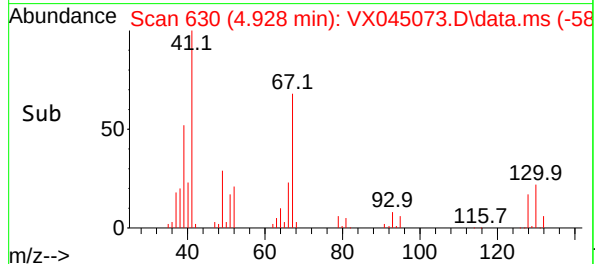
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



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

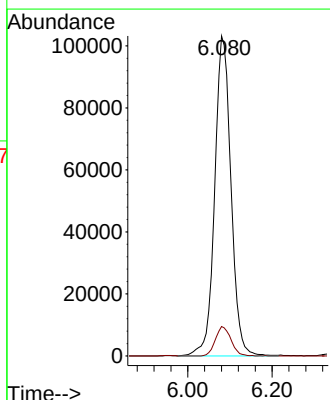
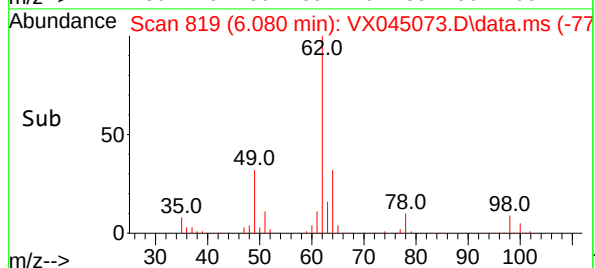
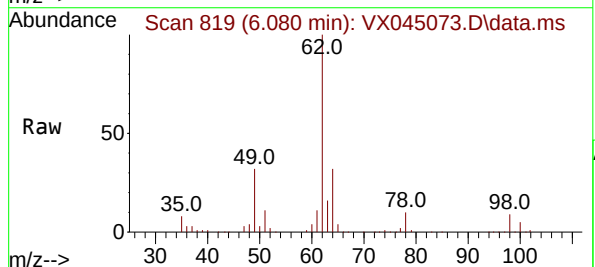
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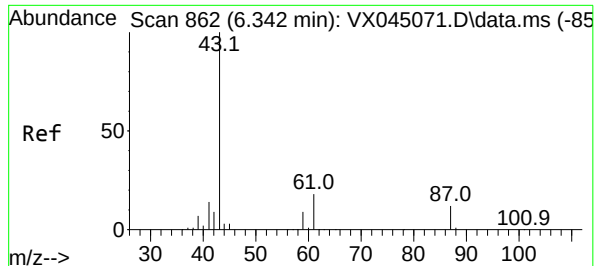
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

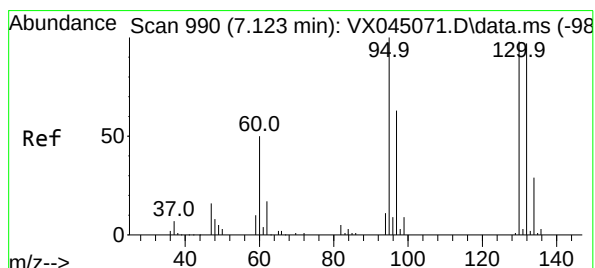
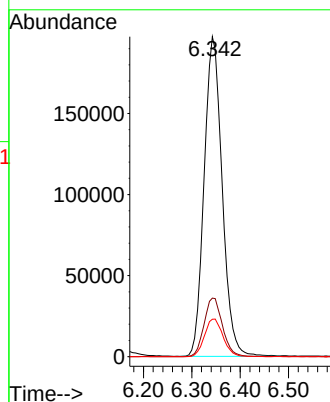
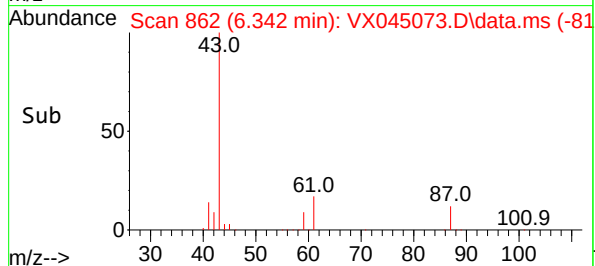
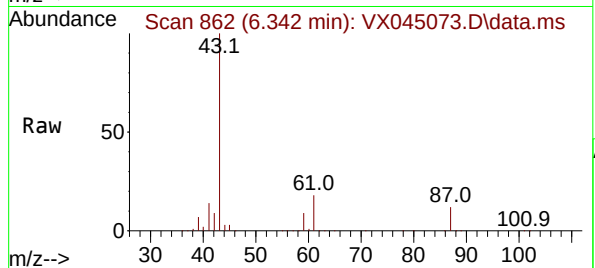
87 12.1 9.4 14.2

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

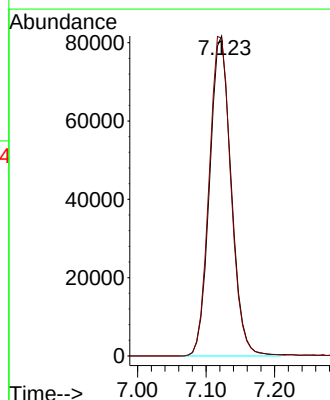
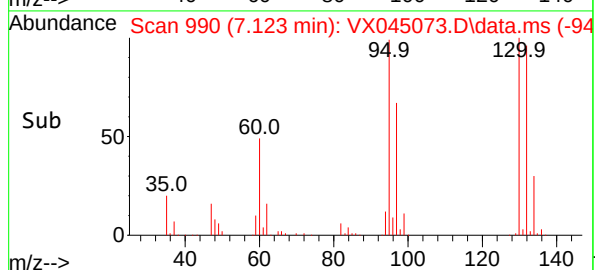
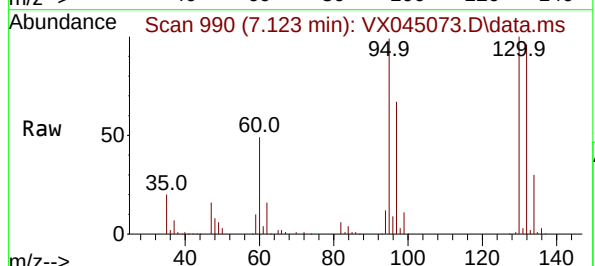
Acq: 28 Feb 2025 03:47

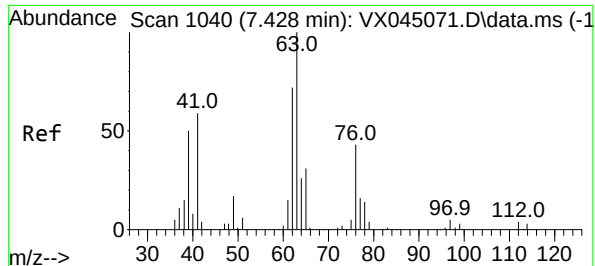
Tgt Ion:130 Resp: 178483

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

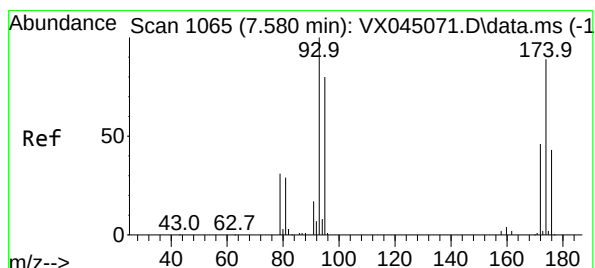
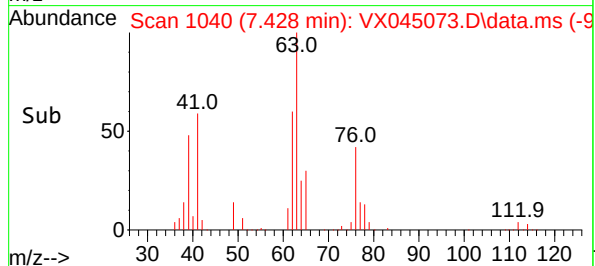
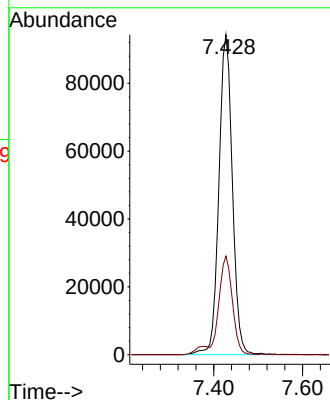
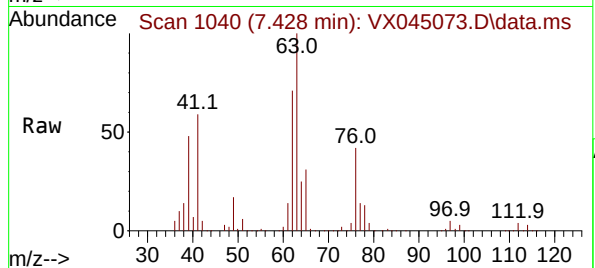
65 30.8 24.7 37.1

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

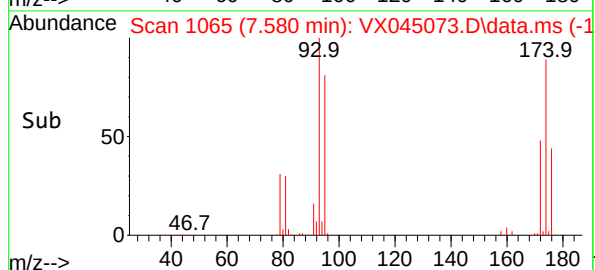
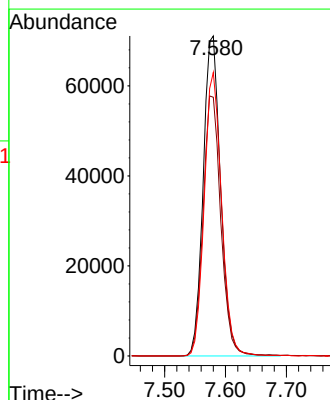
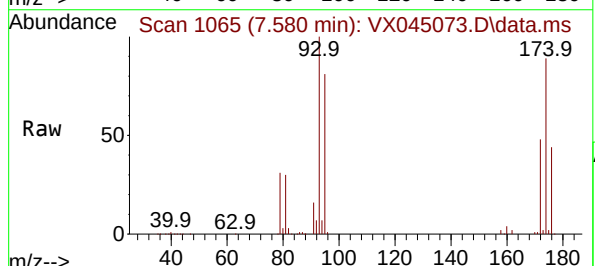
Tgt Ion: 93 Resp: 142119

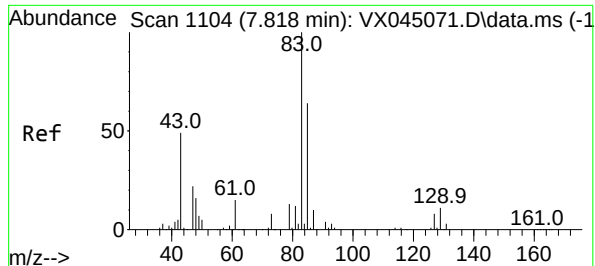
Ion Ratio Lower Upper

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

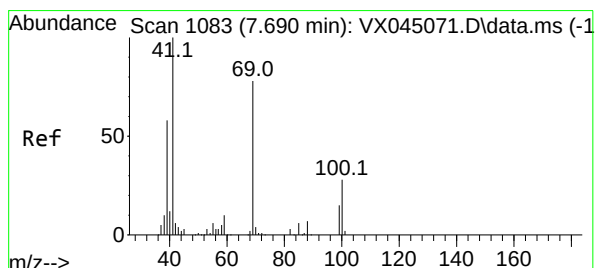
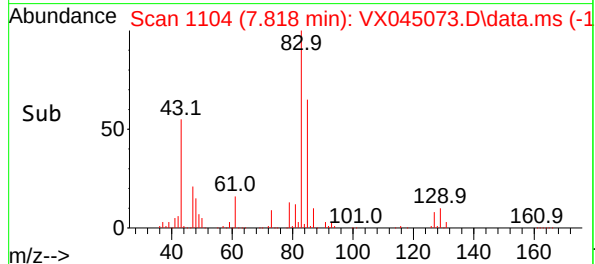
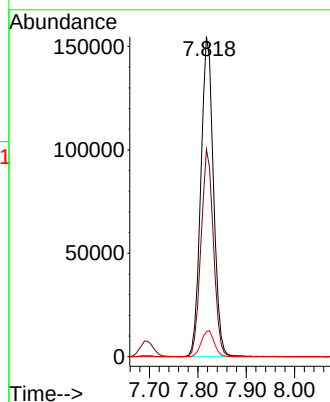
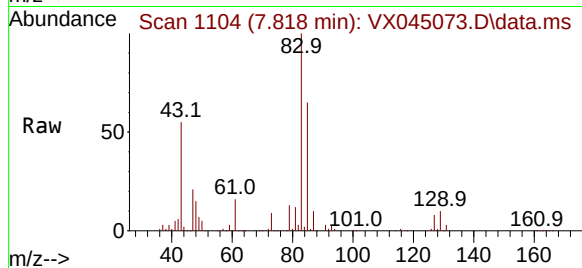
127 7.8 6.4 9.6

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

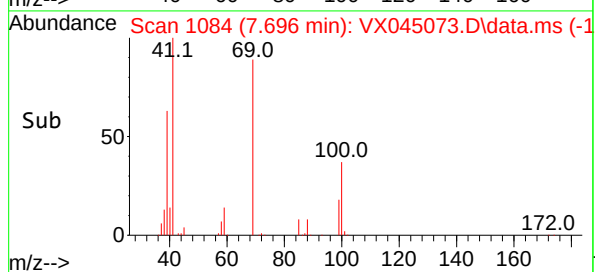
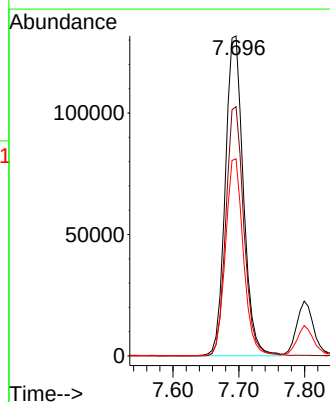
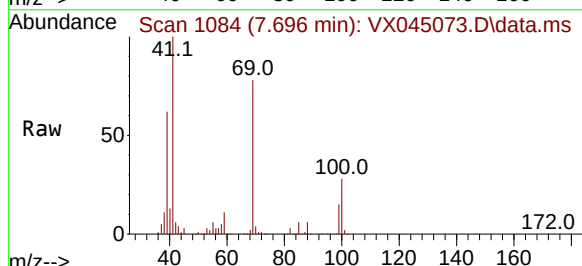
Tgt Ion: 41 Resp: 252275

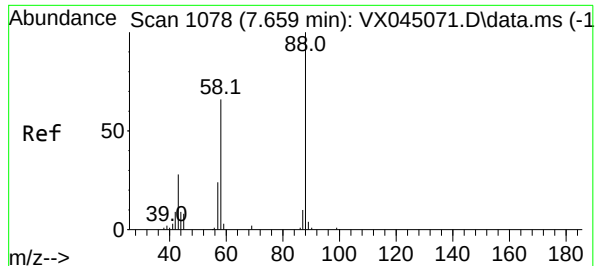
Ion Ratio Lower Upper

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

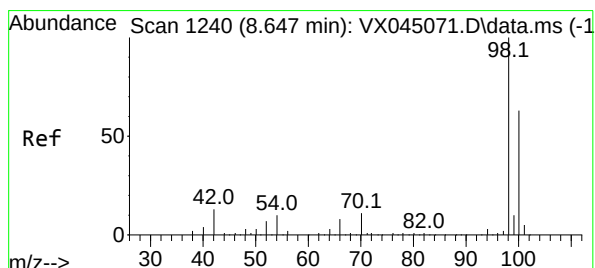
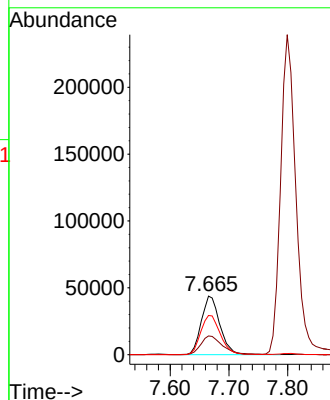
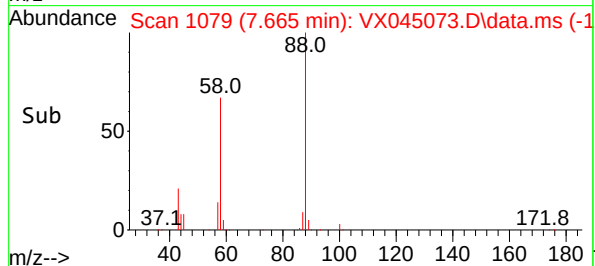
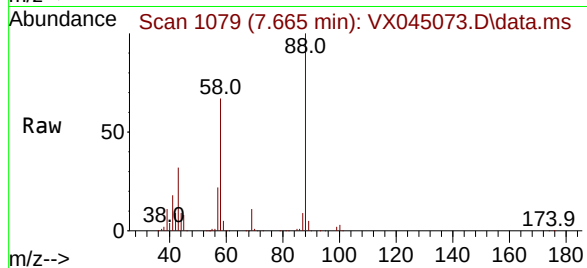
58 70.8 55.8 83.8

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

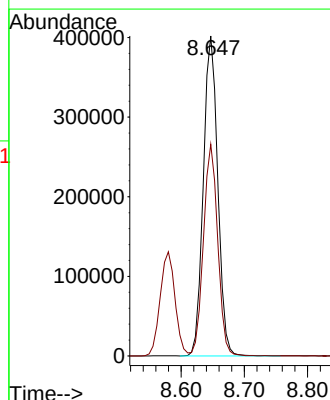
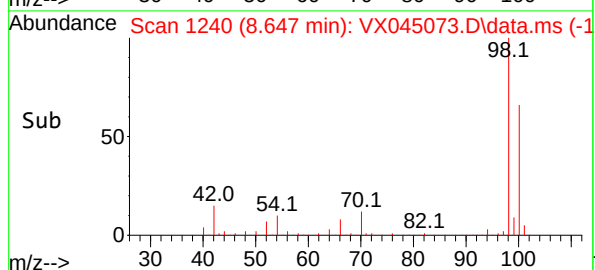
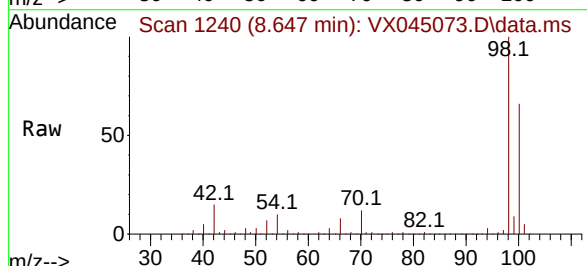
Acq: 28 Feb 2025 03:47

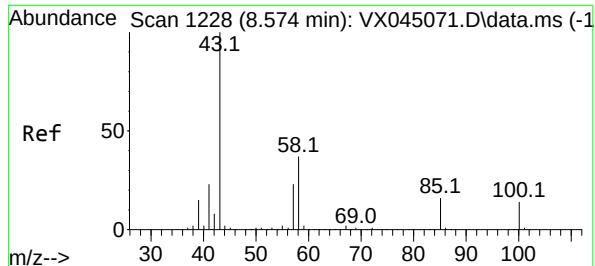
Tgt Ion: 98 Resp: 638979

Ion Ratio Lower Upper

98 100

100 65.4 52.0 78.0





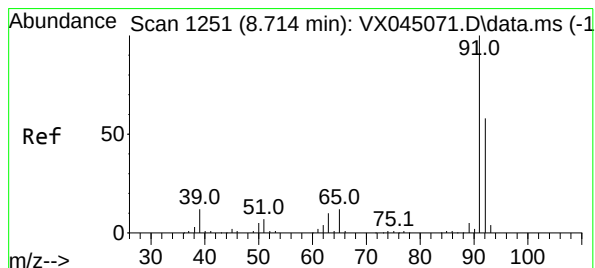
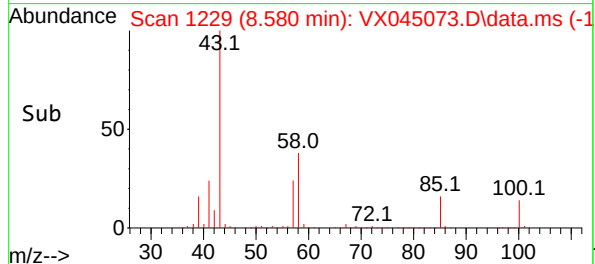
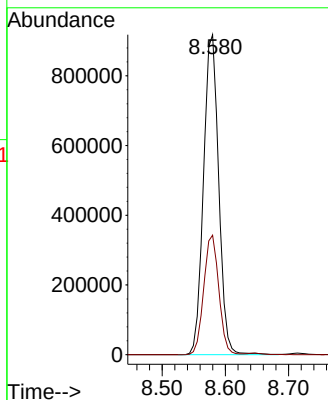
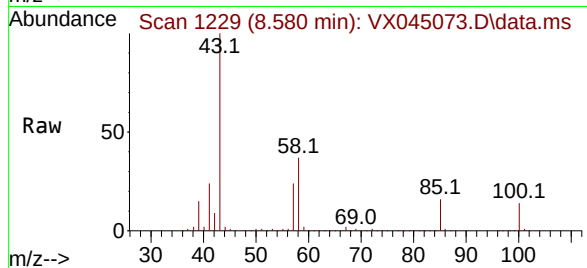
#51
4-Methyl-2-Pentanone
Concen: 832.051 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion: 43 Resp: 153615
Ion Ratio Lower Upper
43 100
58 37.1 29.2 43.8

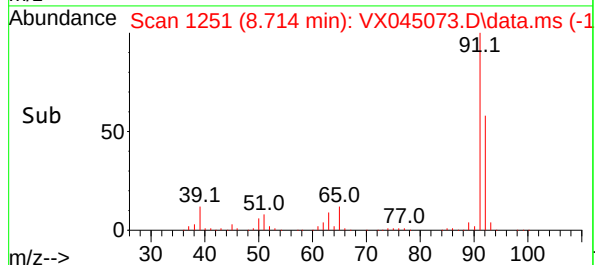
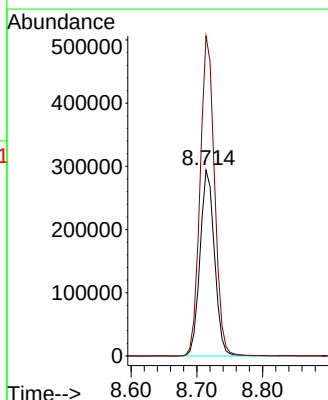
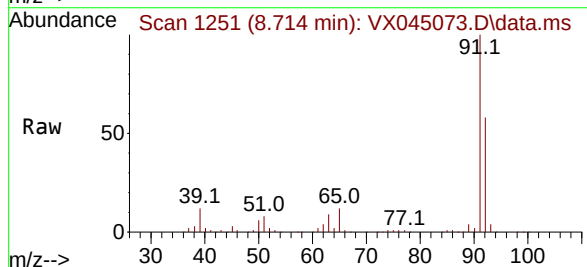
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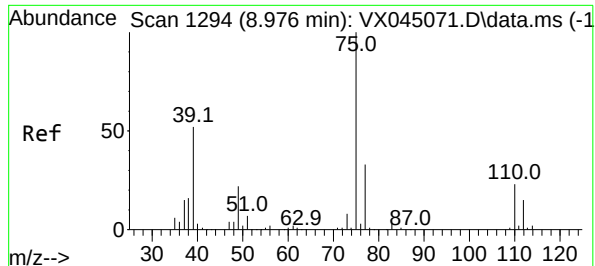
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

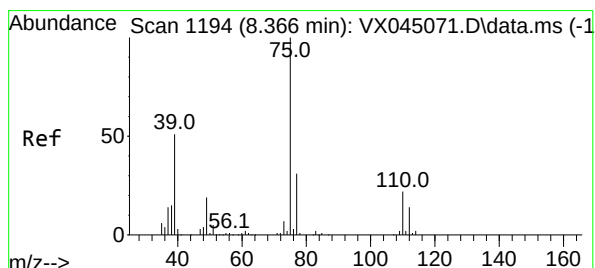
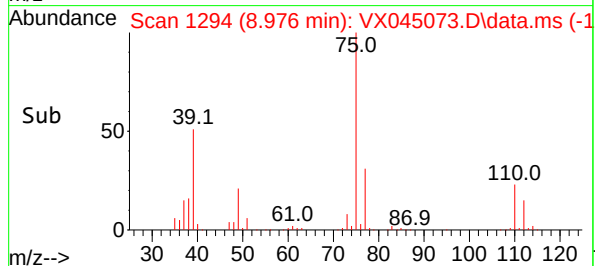
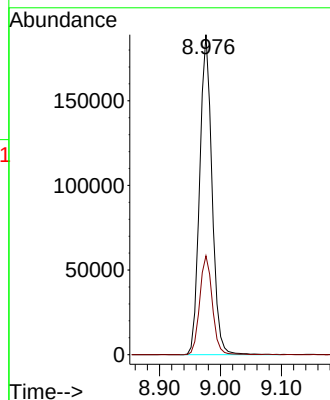
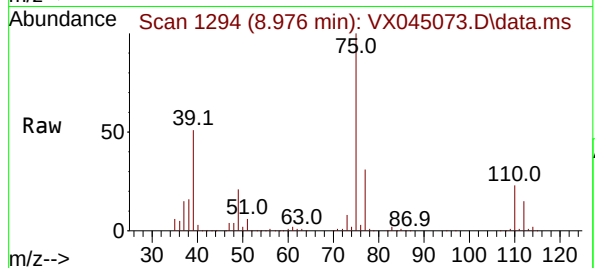
77 30.9 26.5 39.7

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

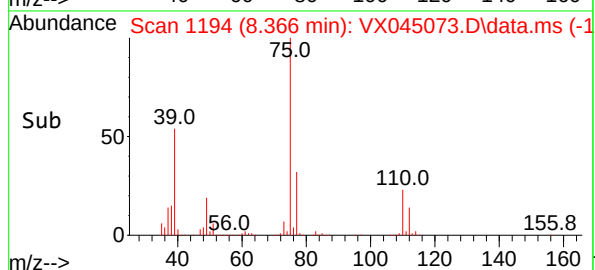
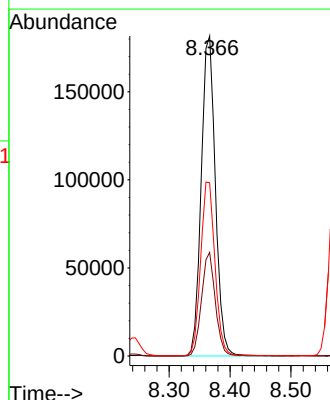
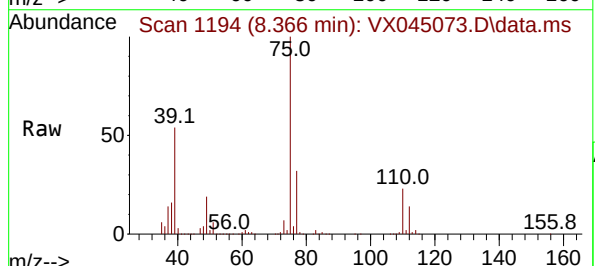
Tgt Ion: 75 Resp: 293521

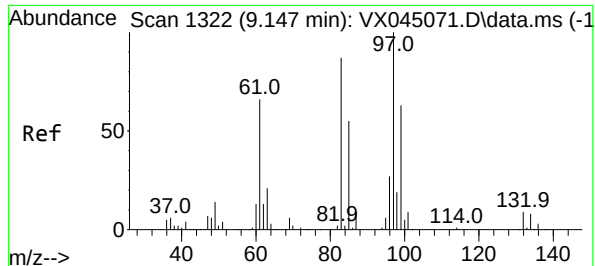
Ion Ratio Lower Upper

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

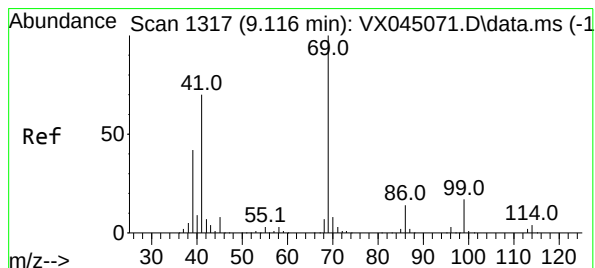
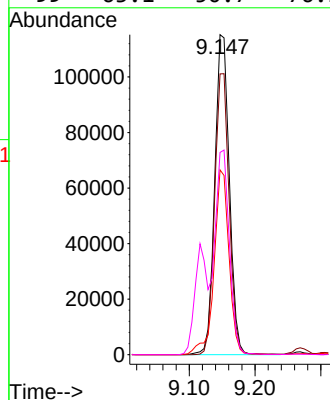
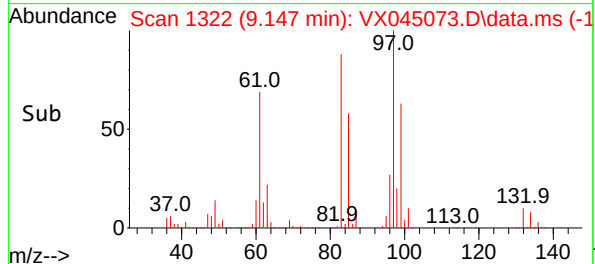
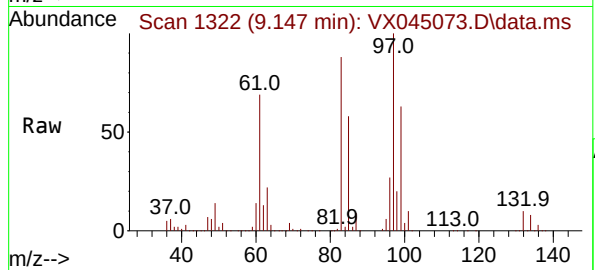
99 63.1 50.7 76.1

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

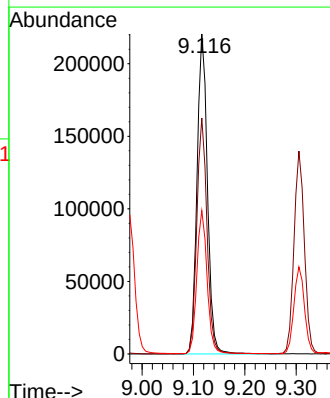
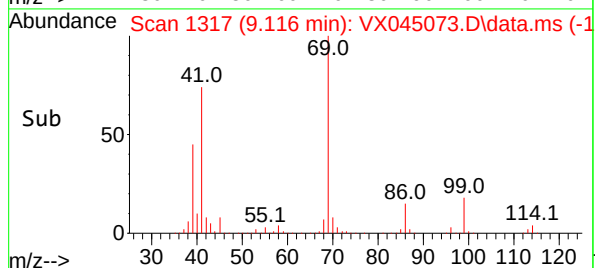
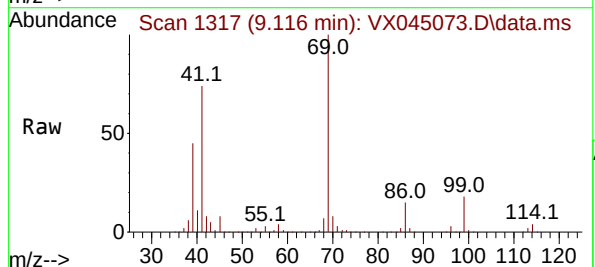
Tgt Ion: 69 Resp: 310992

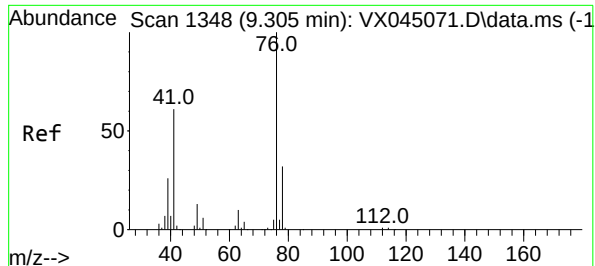
Ion Ratio Lower Upper

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# 11

Delta R.T. -0.000 min

Lab File: VX045073.D

Acq: 28 Feb 2025 03:47

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 76 Resp: 312190

Ion Ratio Lower Upper

76 100

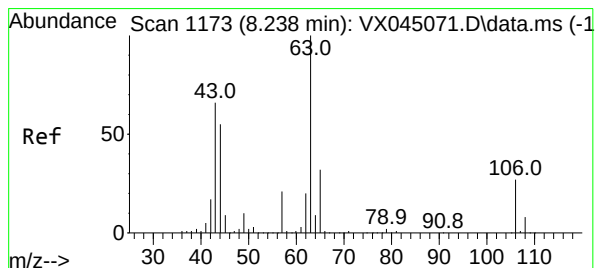
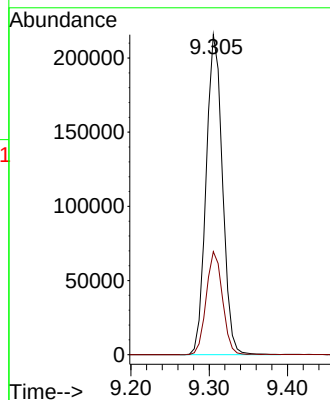
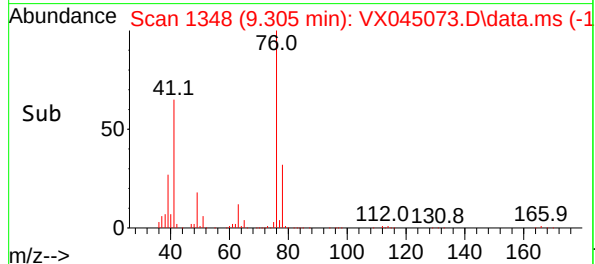
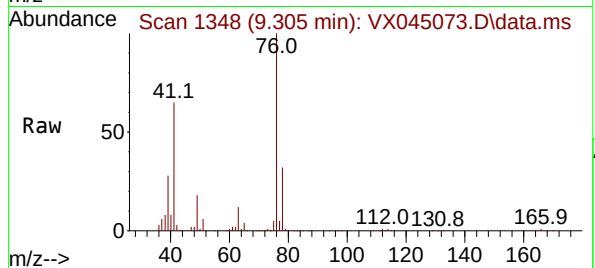
78 32.0 25.5 38.3

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

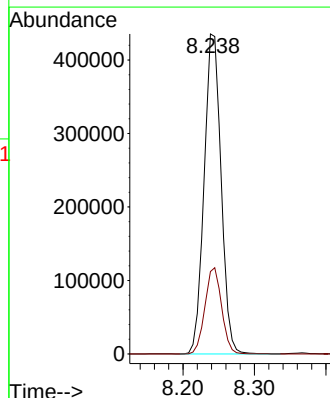
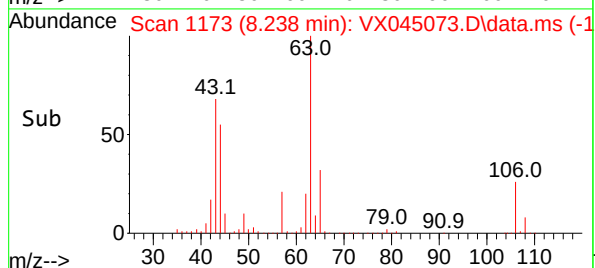
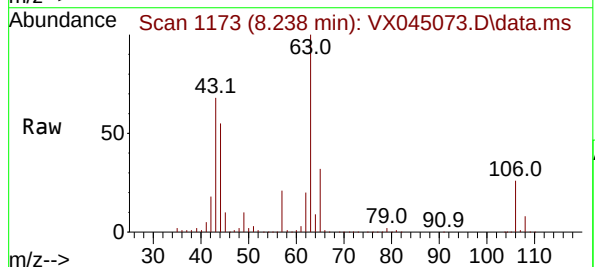
Acq: 28 Feb 2025 03:47

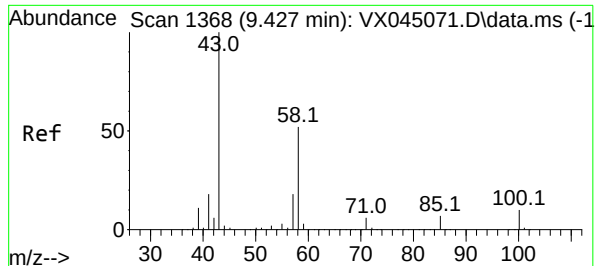
Tgt Ion: 63 Resp: 717328

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

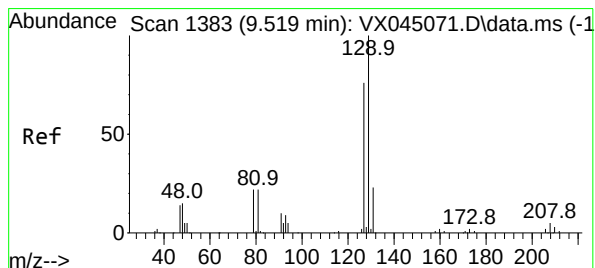
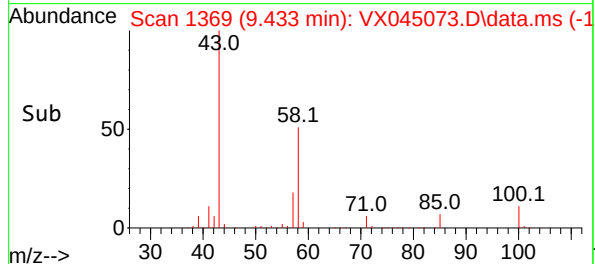
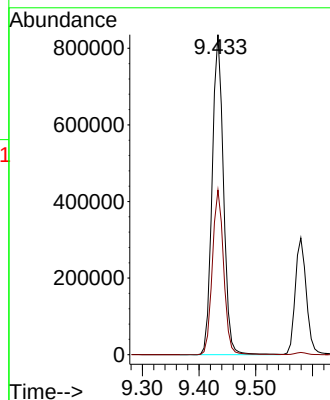
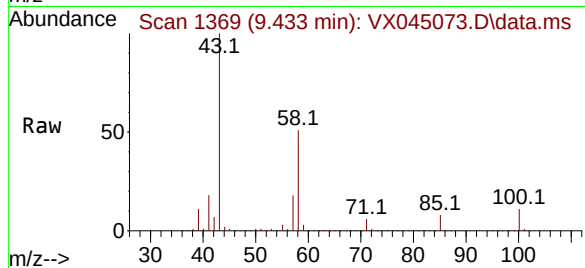
58 51.6 25.9 77.6

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

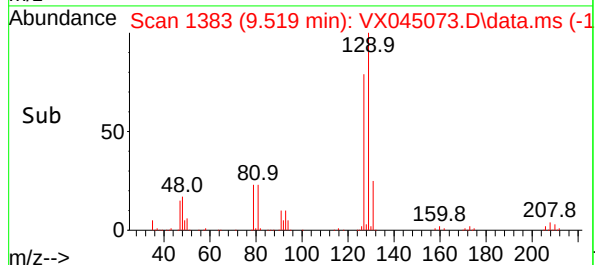
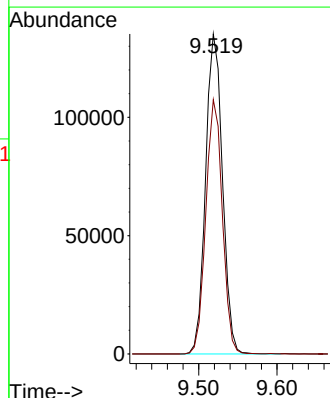
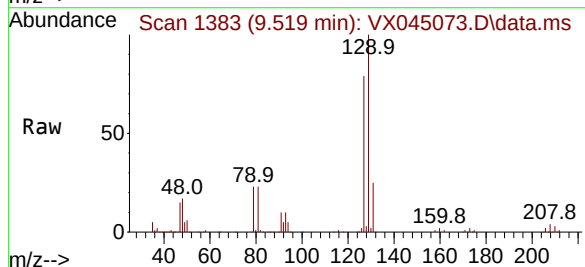
Acq: 28 Feb 2025 03:47

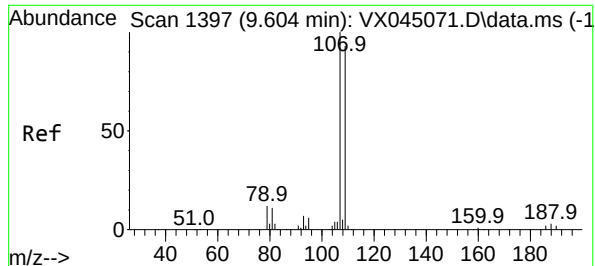
Tgt Ion:129 Resp: 201906

Ion Ratio Lower Upper

129 100

127 77.9 38.5 115.5





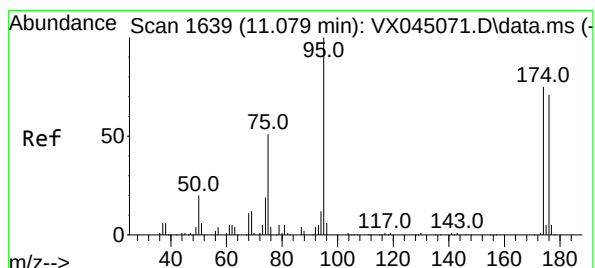
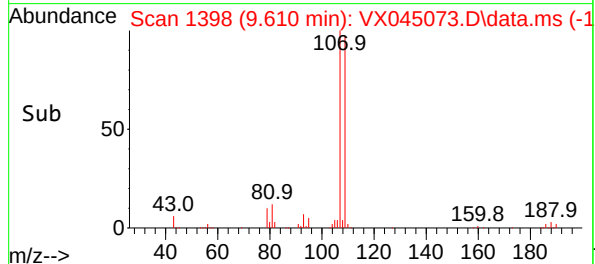
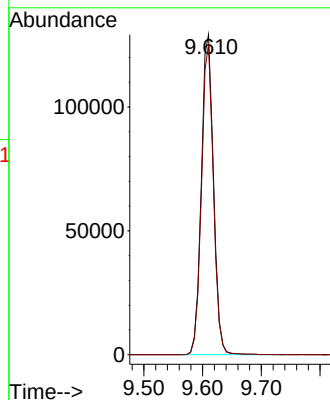
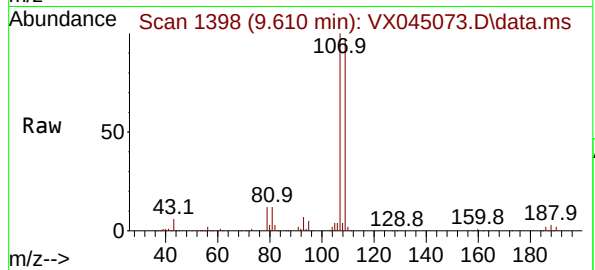
#61
1,2-Dibromoethane
Concen: 154.074 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:107 Resp: 185828
Ion Ratio Lower Upper
107 100
109 95.2 76.1 114.1

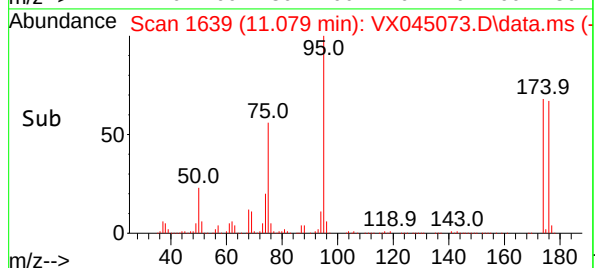
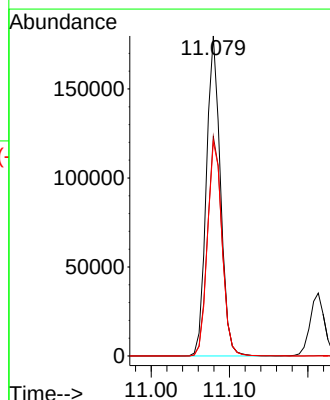
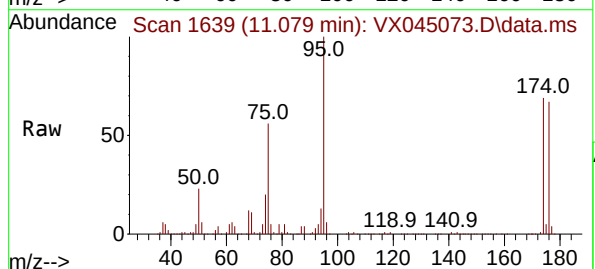
Manual Integrations
APPROVED

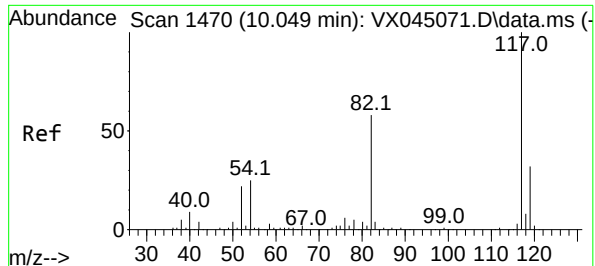
Reviewed By :John Carbone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

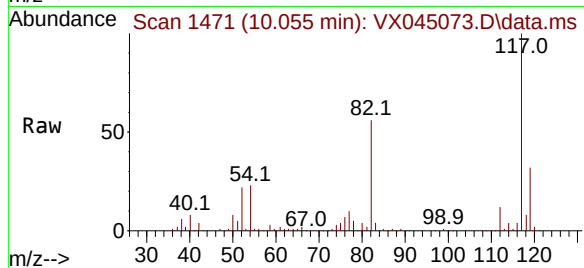
Tgt Ion: 95 Resp: 223346
Ion Ratio Lower Upper
95 100
174 70.4 0.0 148.2
176 69.4 0.0 141.4





#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

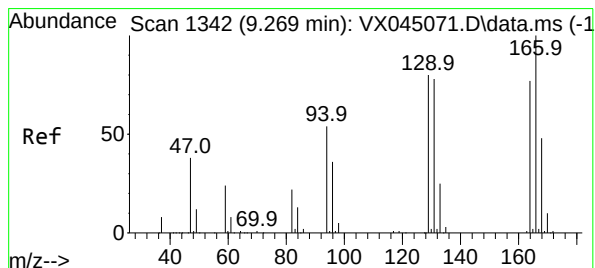
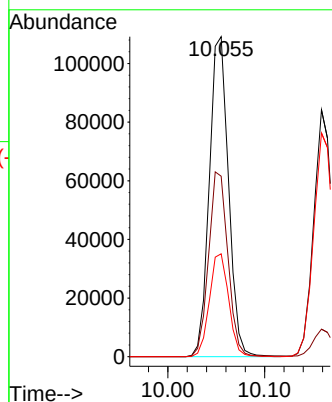
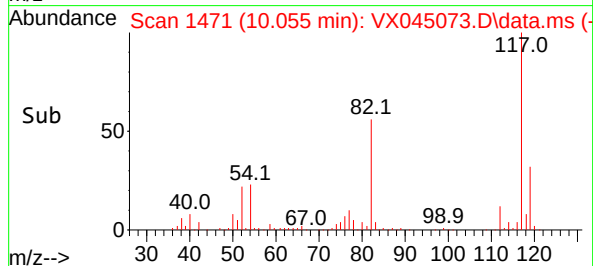
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



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

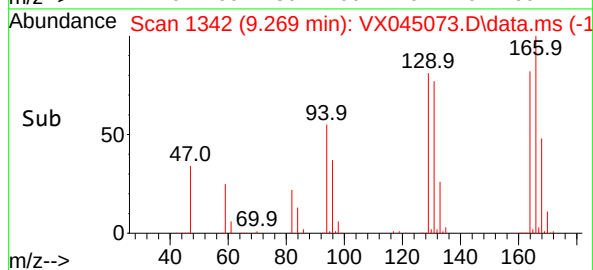
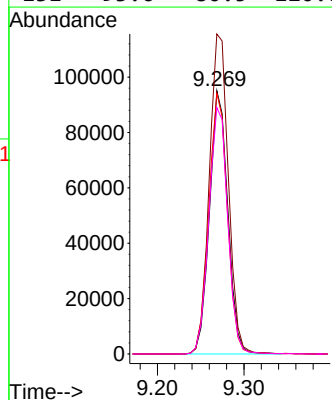
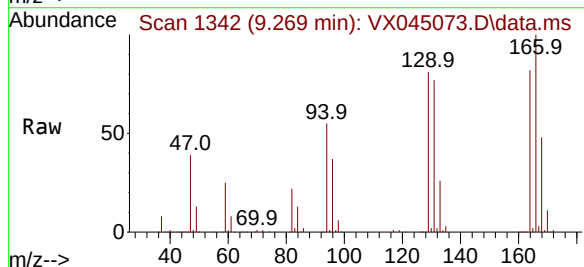
Manual Integrations
APPROVED

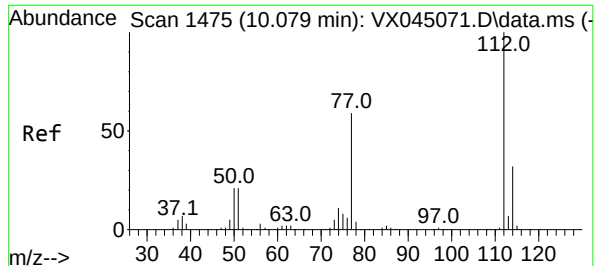
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





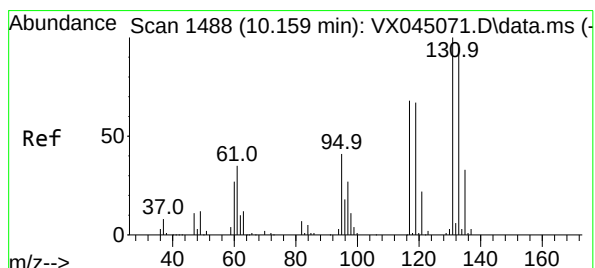
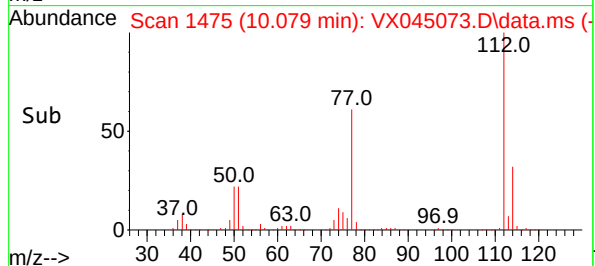
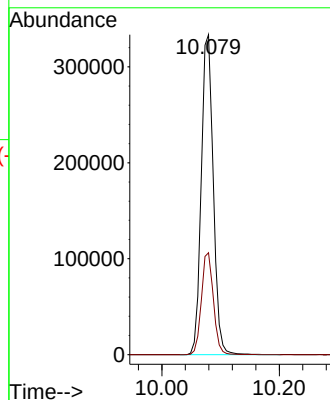
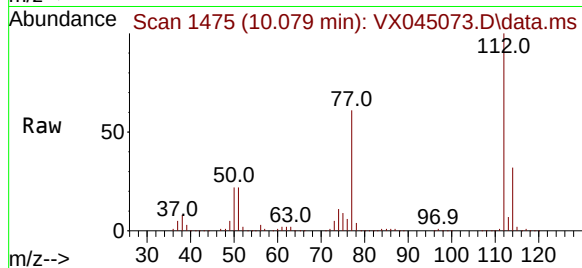
#65
Chlorobenzene
Concen: 146.096 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion:112 Resp: 47211
Ion Ratio Lower Upper
112 100
114 31.9 26.0 39.0

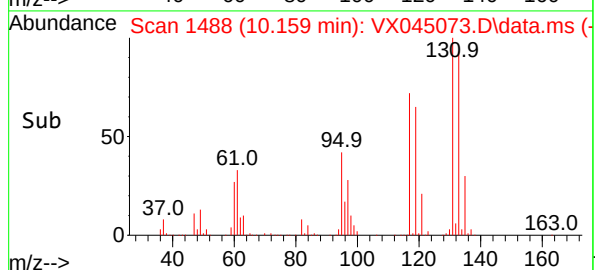
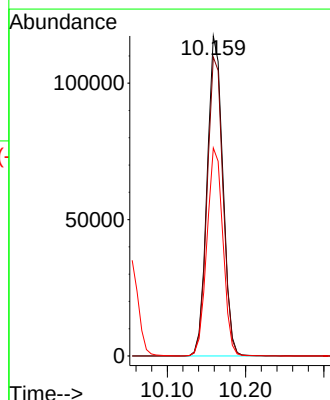
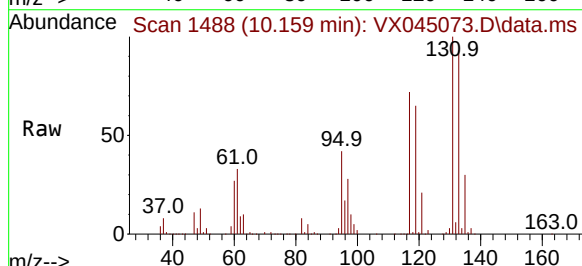
Manual Integrations
APPROVED

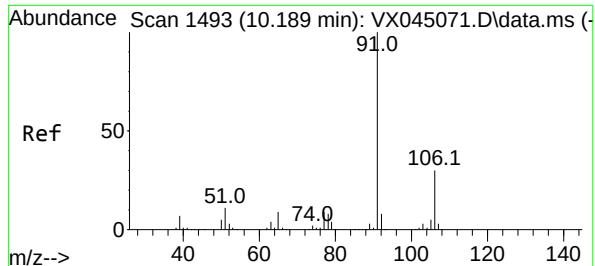
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

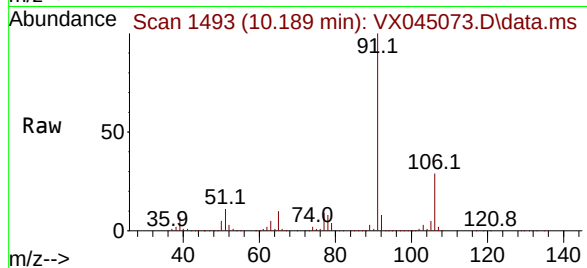
Tgt Ion:131 Resp: 163370
Ion Ratio Lower Upper
131 100
133 94.2 48.6 145.9
119 66.0 33.9 101.7





#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

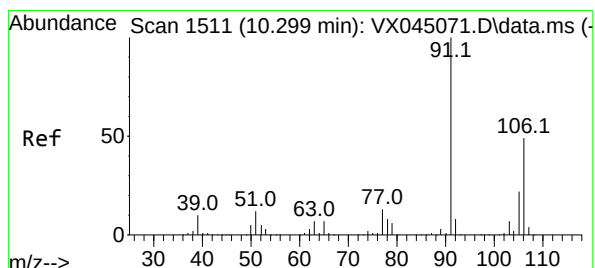
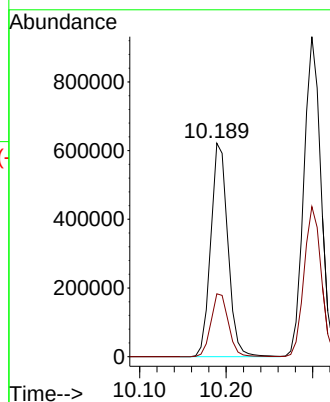
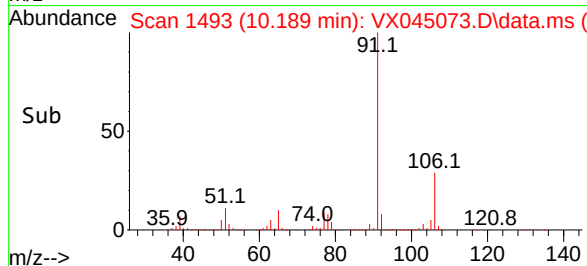
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 91 Resp: 852579
Ion Ratio Lower Upper
91 100
106 29.5 23.9 35.9

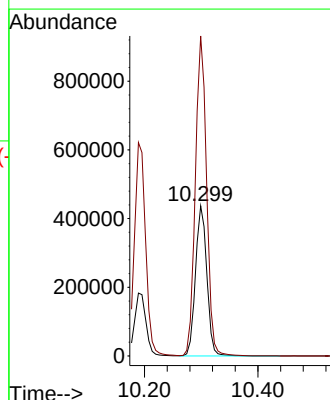
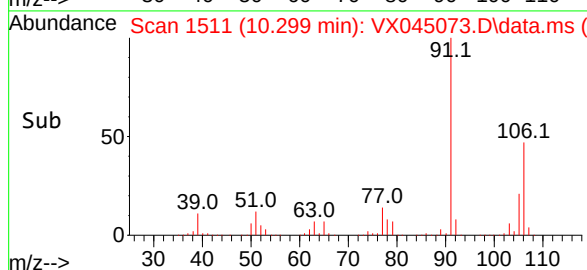
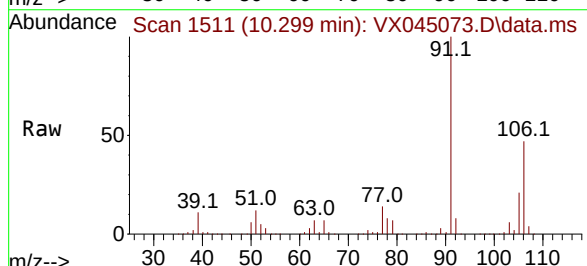
Manual Integrations
APPROVED

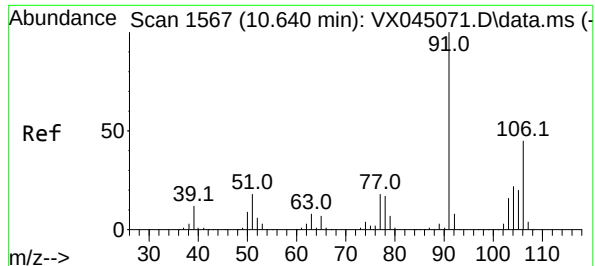
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





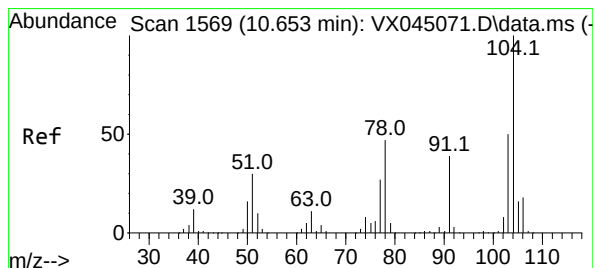
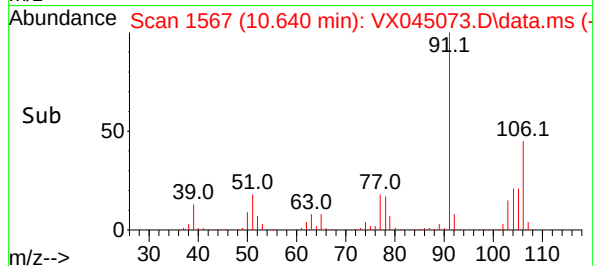
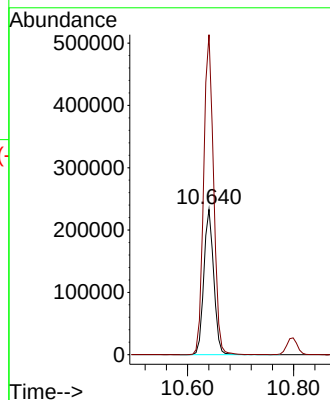
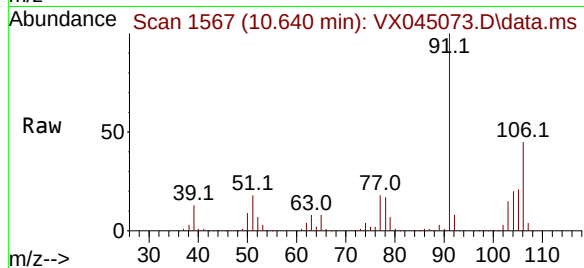
#69
o-Xylene
Concen: 143.259 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 302495
Ion Ratio Lower Upper
106 100
91 221.3 109.9 329.6

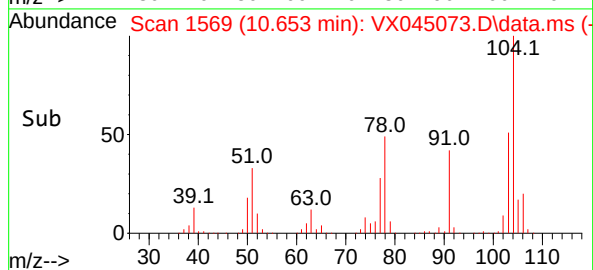
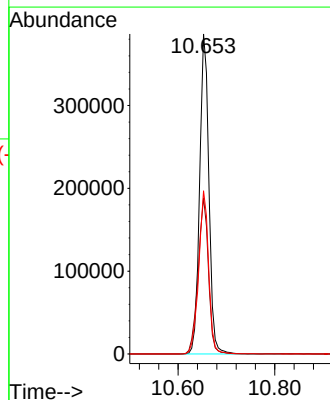
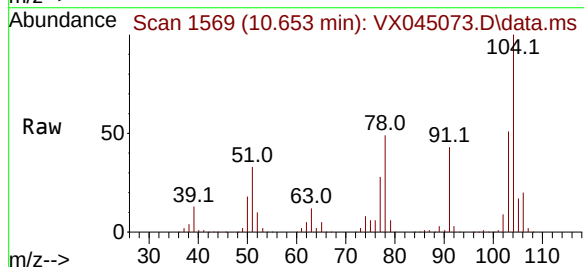
Manual Integrations
APPROVED

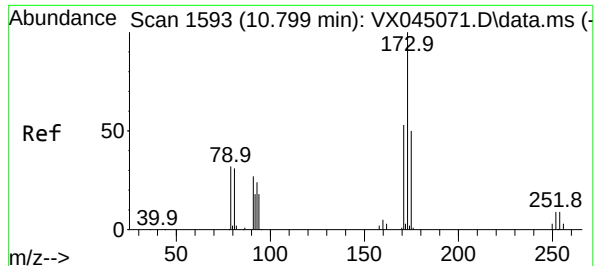
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

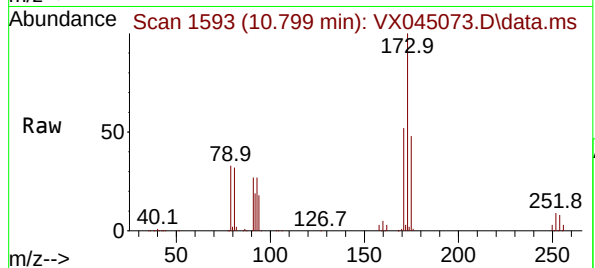
Tgt Ion:104 Resp: 512379
Ion Ratio Lower Upper
104 100
78 54.4 42.2 63.4
103 54.8 43.8 65.8





#71
Bromoform
Concen: 174.808 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

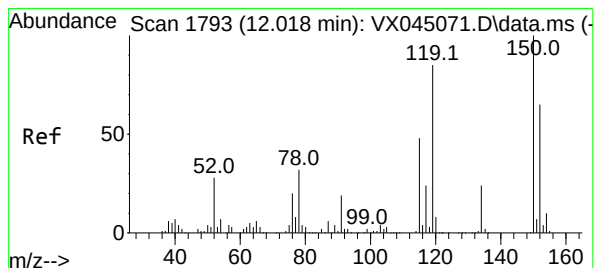
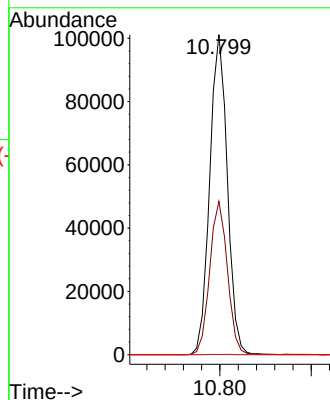
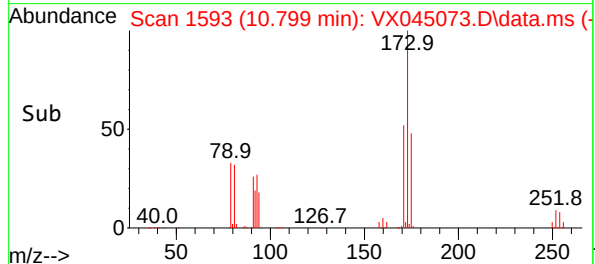
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



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

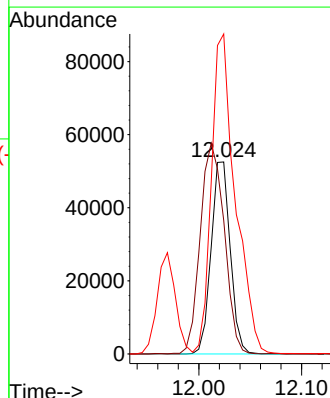
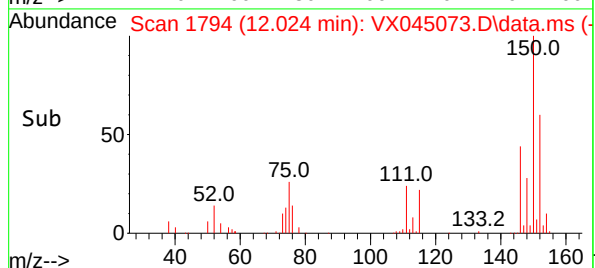
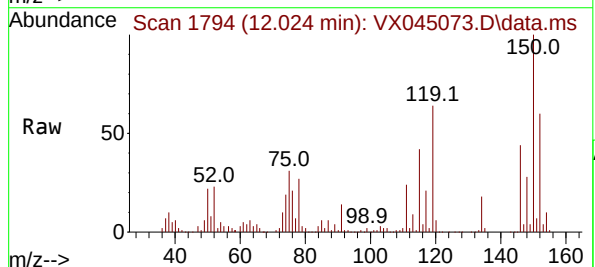
Manual Integrations
APPROVED

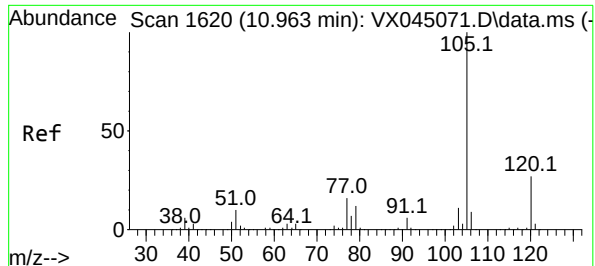
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

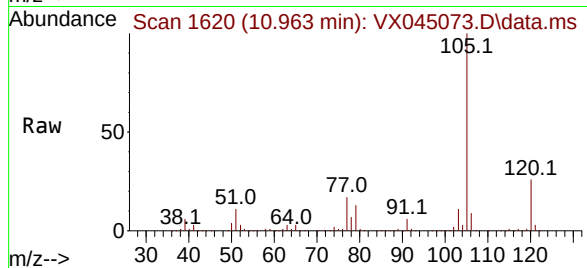
Tgt Ion:152 Resp: 67685
Ion Ratio Lower Upper
152 100
115 138.4 44.2 132.6#
150 208.8 0.0 349.0





#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

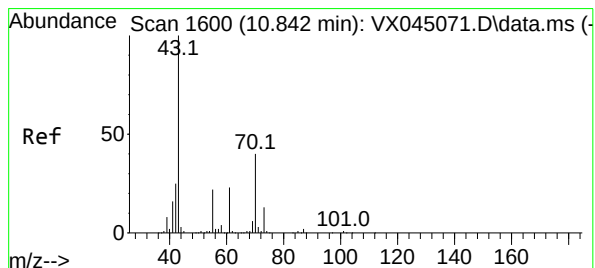
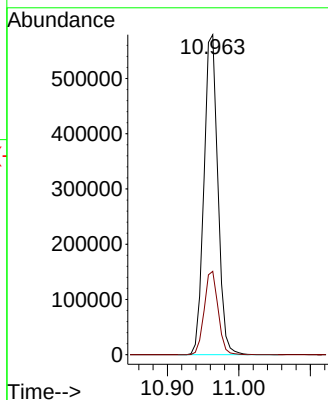
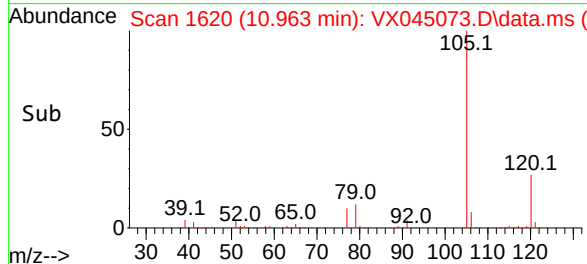
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:105 Resp: 780700
Ion Ratio Lower Upper
105 100
120 26.0 13.2 39.5

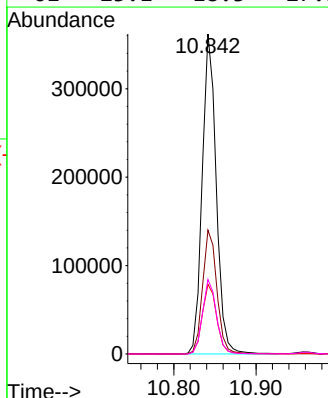
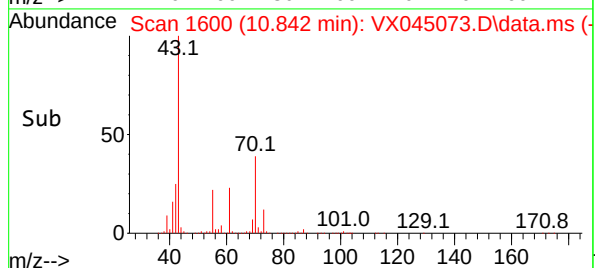
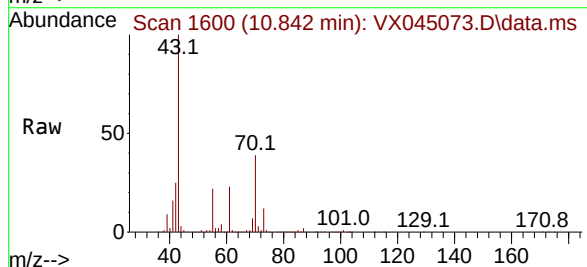
Manual Integrations
APPROVED

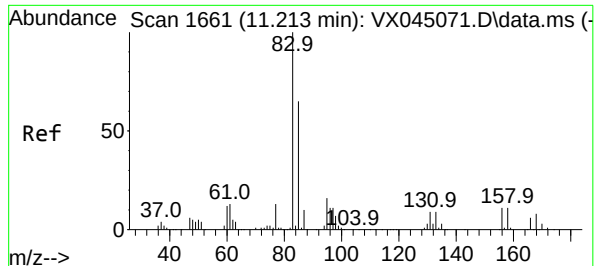
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

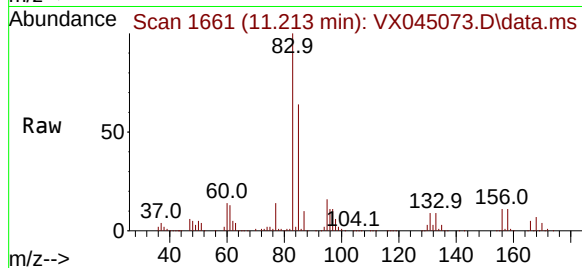
Tgt Ion: 43 Resp: 429686
Ion Ratio Lower Upper
43 100
70 39.6 31.8 47.6
55 22.5 18.3 27.5
61 23.1 18.3 27.5





#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

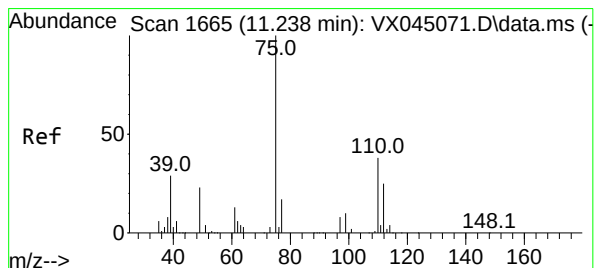
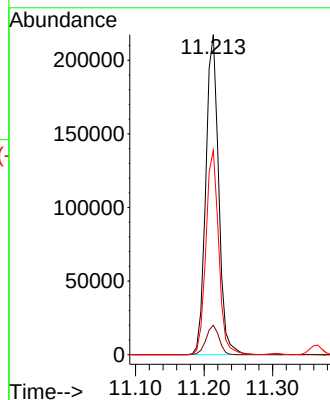
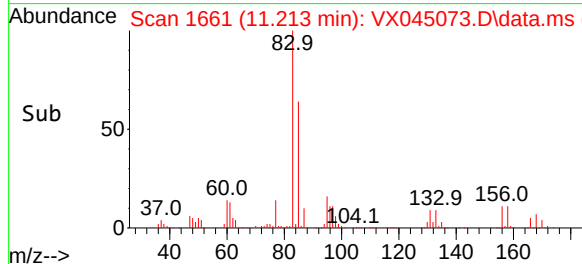
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



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

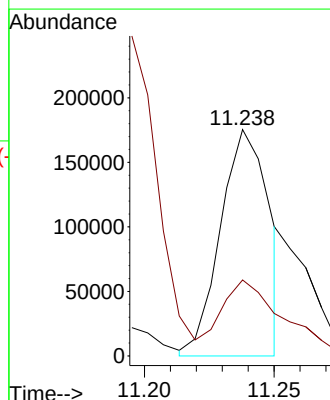
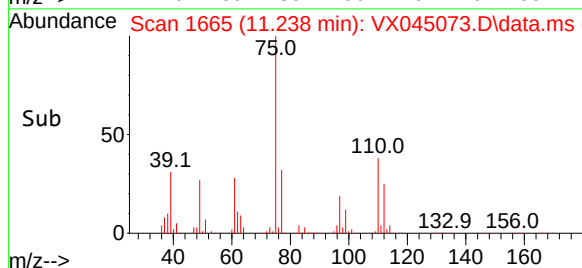
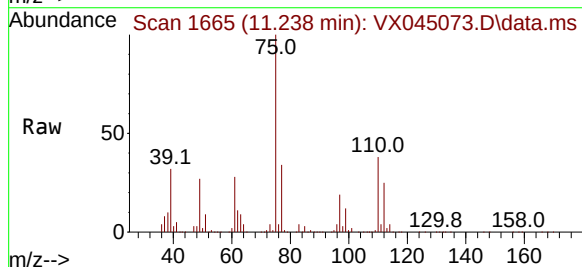
Manual Integrations
APPROVED

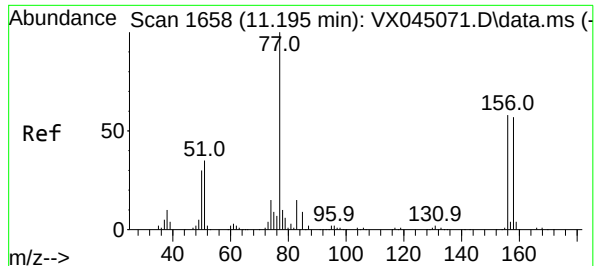
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

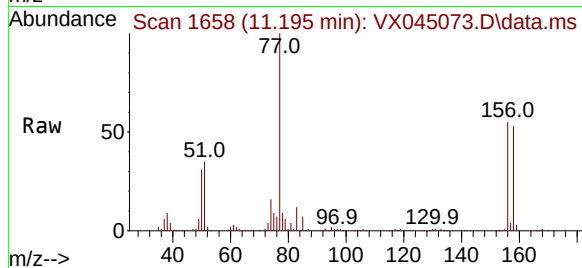
Tgt Ion: 75 Resp: 229435
Ion Ratio Lower Upper
75 100
77 43.2 20.7 62.1





#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

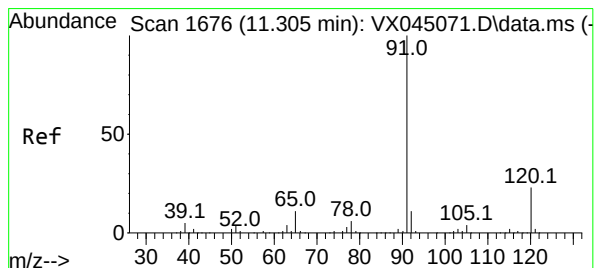
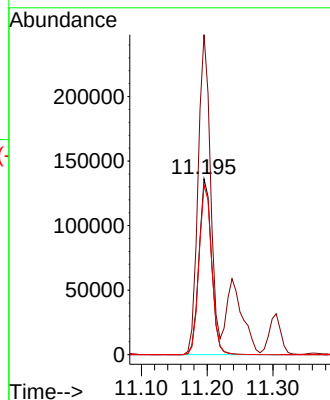
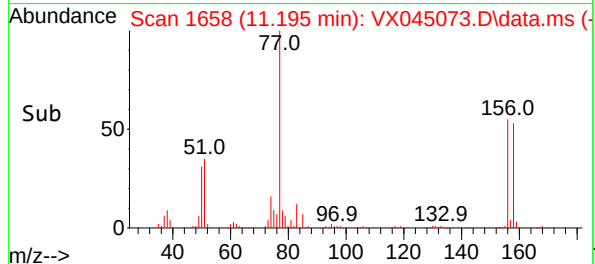
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



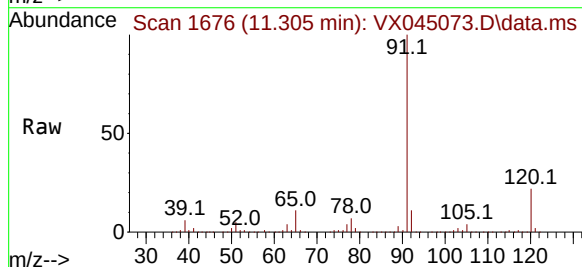
Tgt Ion:156 Resp: 180997
Ion Ratio Lower Upper
156 100
77 179.4 85.8 257.4
158 97.1 48.4 145.2

Manual Integrations
APPROVED

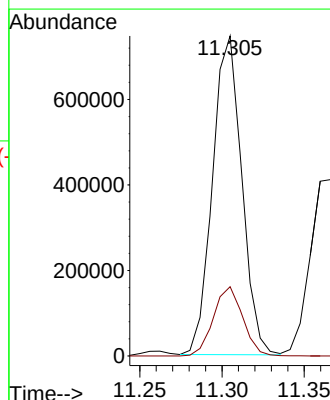
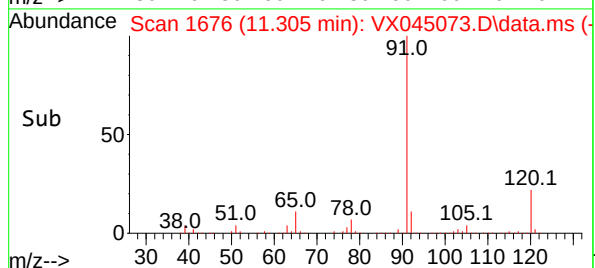
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

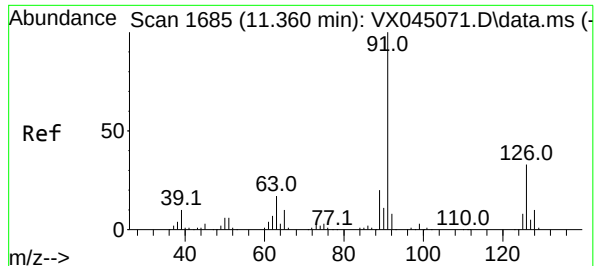


#78
n-propylbenzene
Concen: 146.395 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47



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

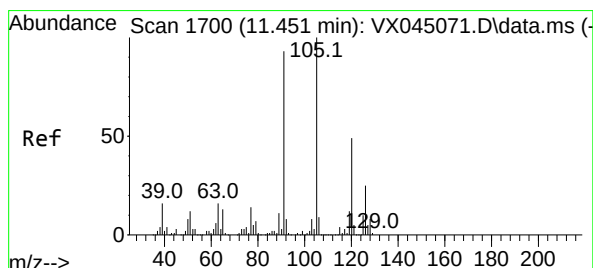
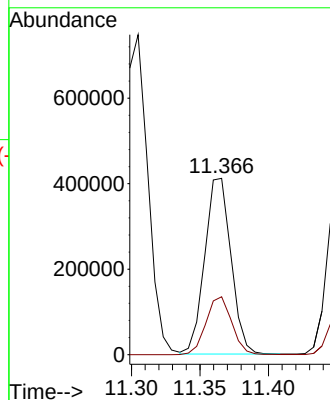
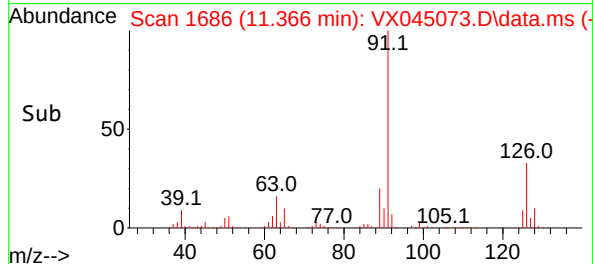
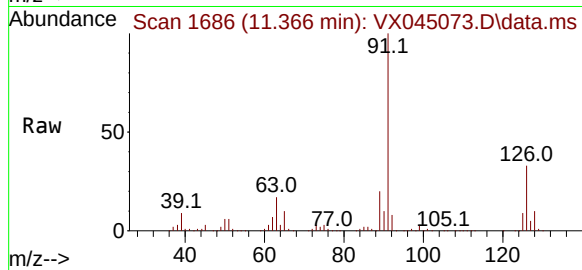
126 32.4 16.4 49.4

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

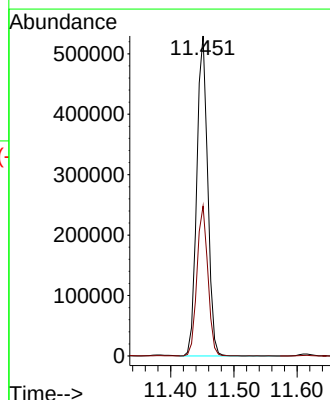
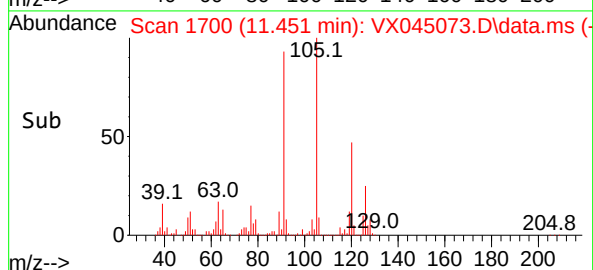
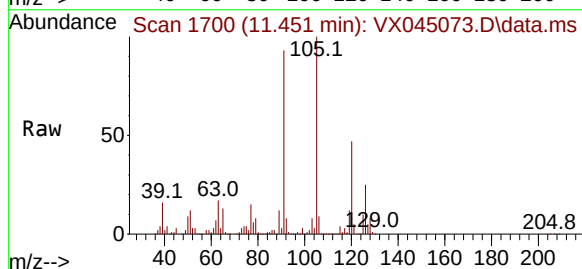
Acq: 28 Feb 2025 03:47

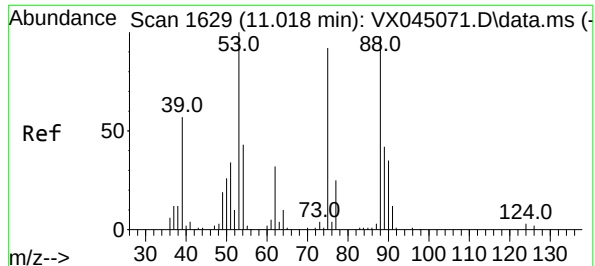
Tgt Ion:105 Resp: 635832

Ion Ratio Lower Upper

105 100

120 46.7 24.1 72.2





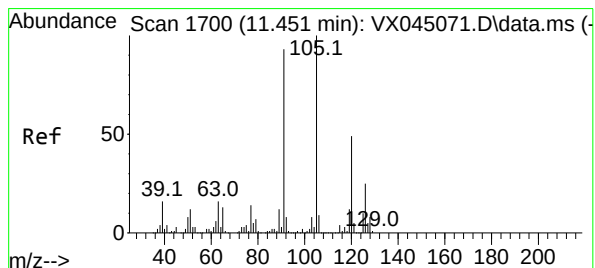
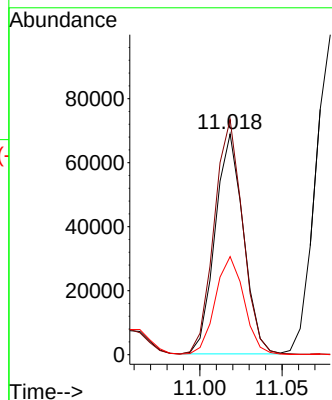
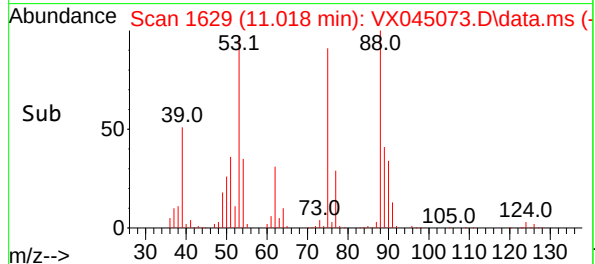
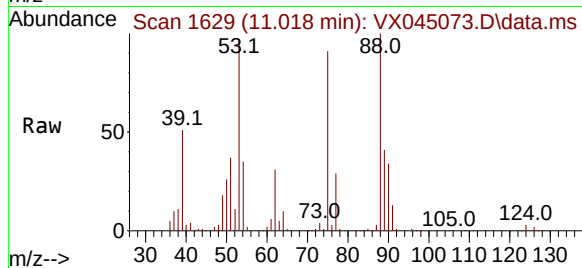
#81
trans-1,4-Dichloro-2-butene
Concen: 147.761 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Lower	Upper
75	100		
53	107.7	88.5	132.7
89	45.2	36.2	54.4

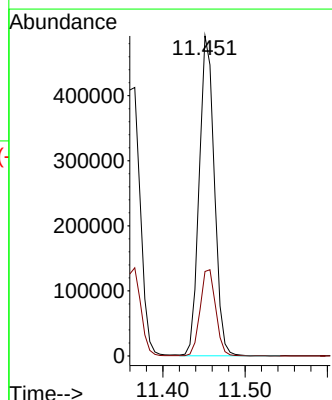
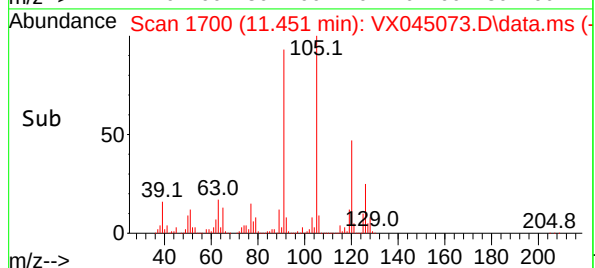
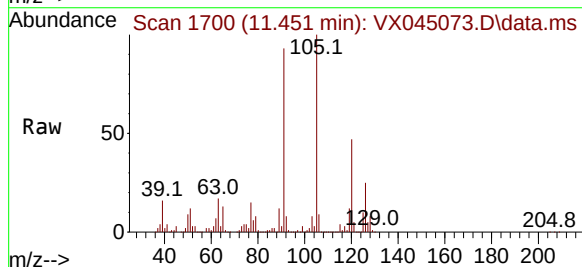
Manual Integrations
APPROVED

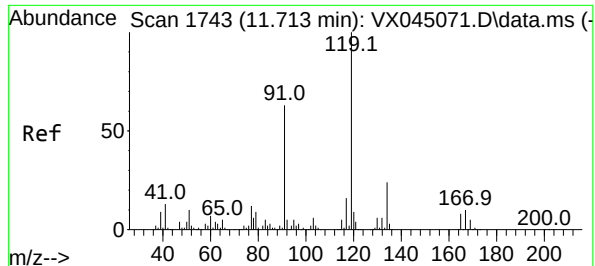
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

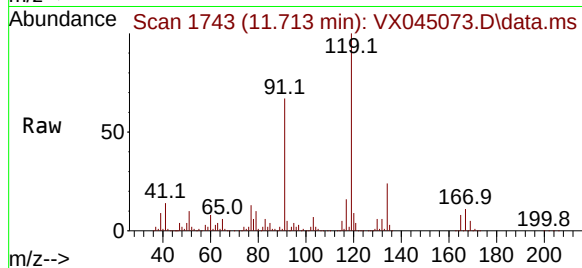
Tgt Ion	Ratio	Lower	Upper
91	100		
126	27.8	14.1	42.4





#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

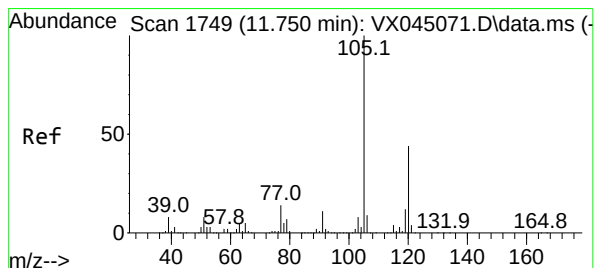
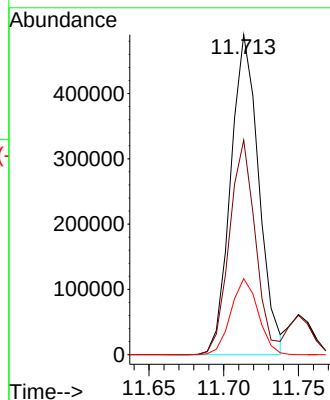
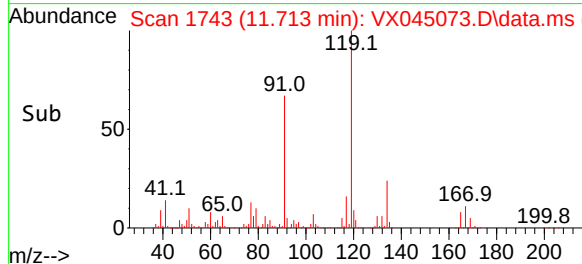
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



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

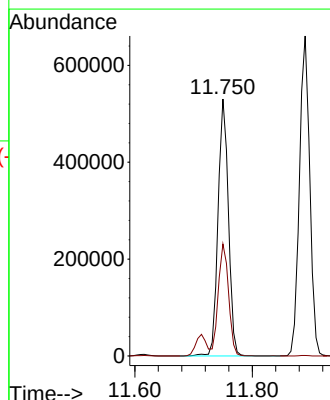
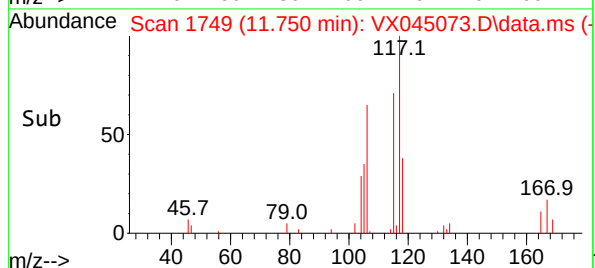
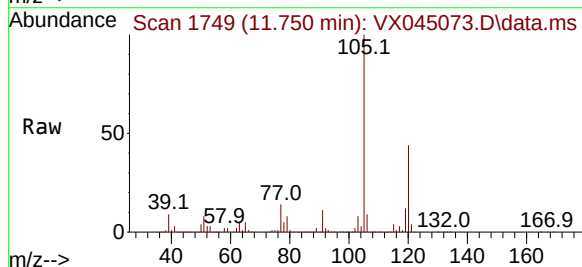
Manual Integrations
APPROVED

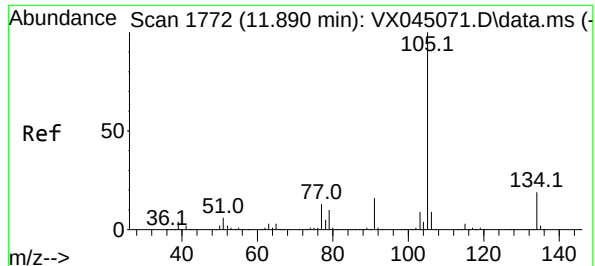
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





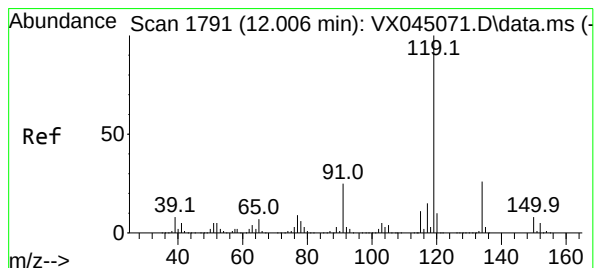
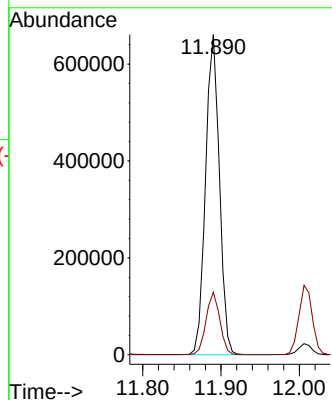
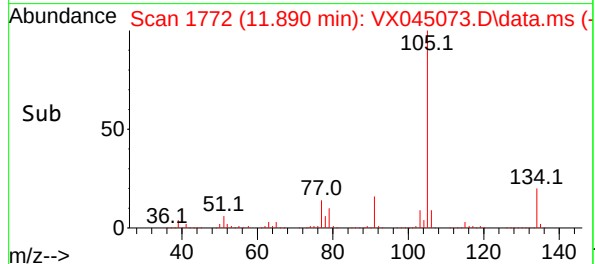
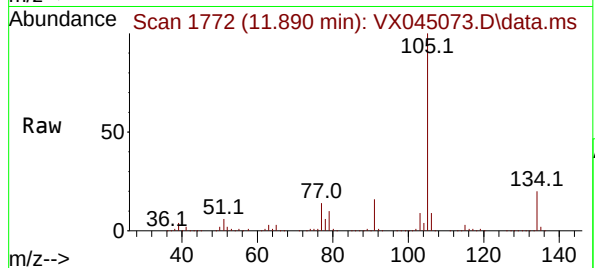
#85
sec-Butylbenzene
Concen: 145.383 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 80771
Ion Ratio Lower Upper
105 100
134 19.4 9.8 29.4

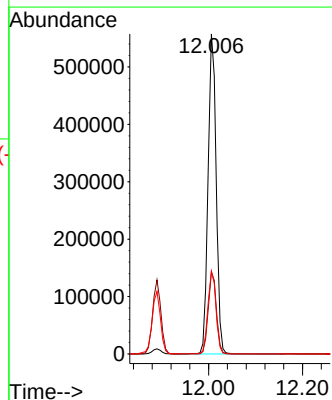
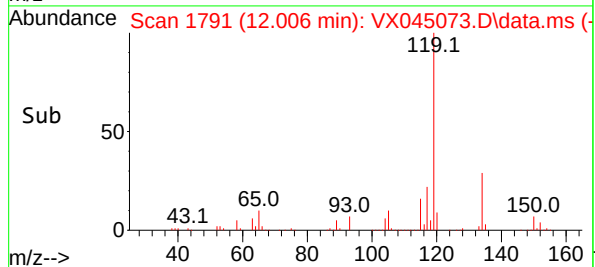
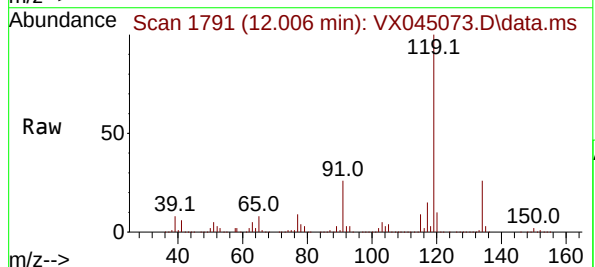
Manual Integrations
APPROVED

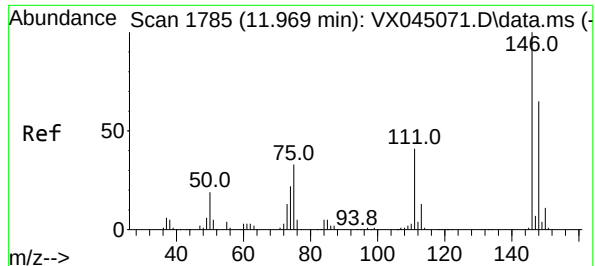
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

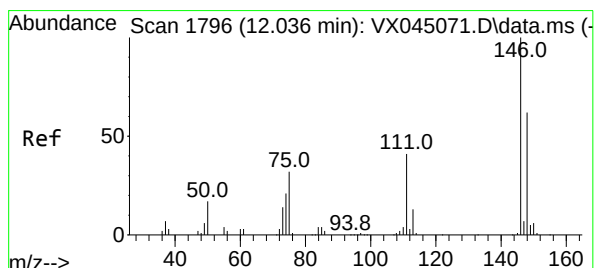
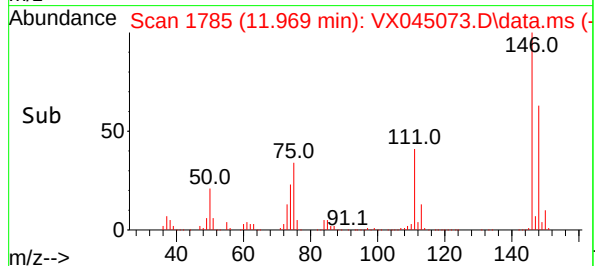
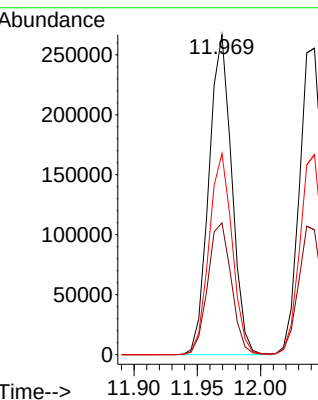
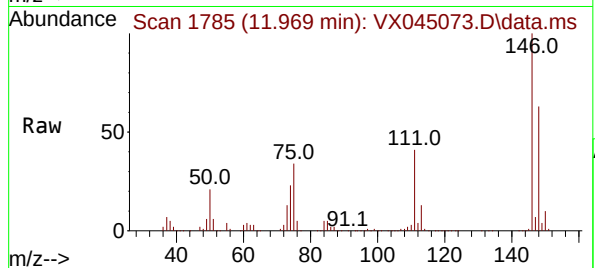
148 63.6 31.9 95.7

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

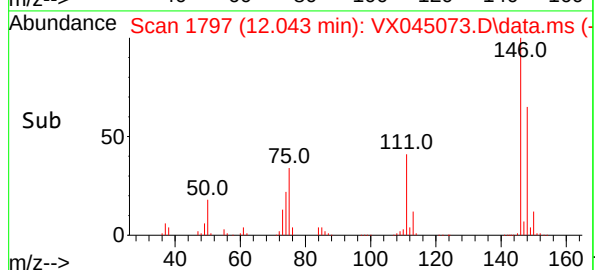
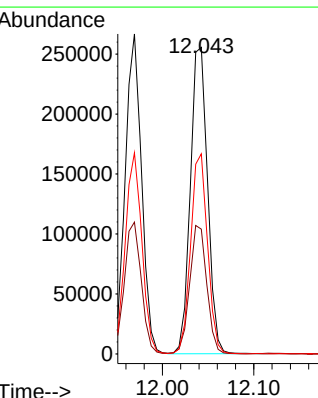
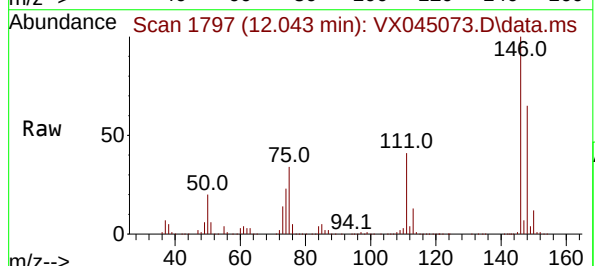
Tgt Ion:146 Resp: 333594

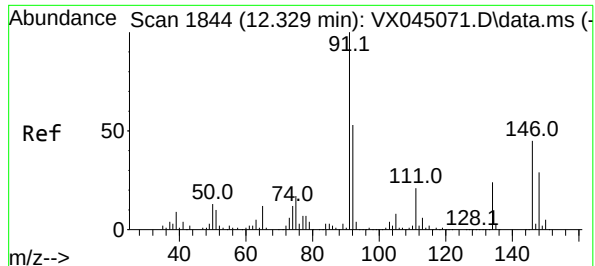
Ion Ratio Lower Upper

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

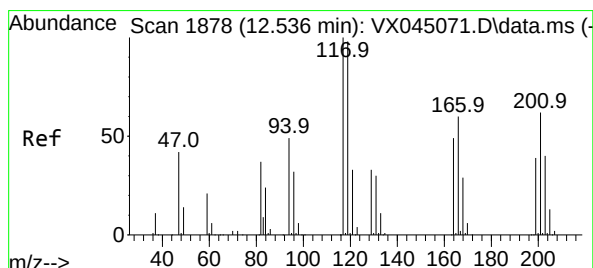
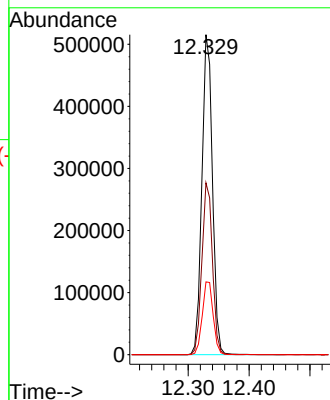
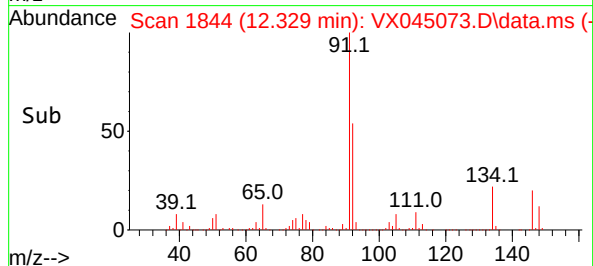
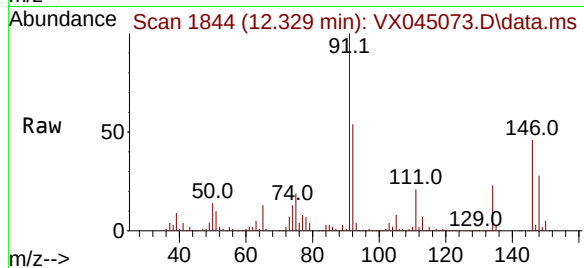
134 23.6 12.2 36.6

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

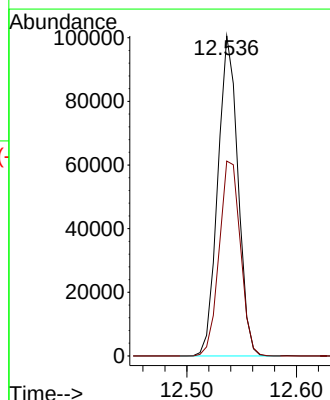
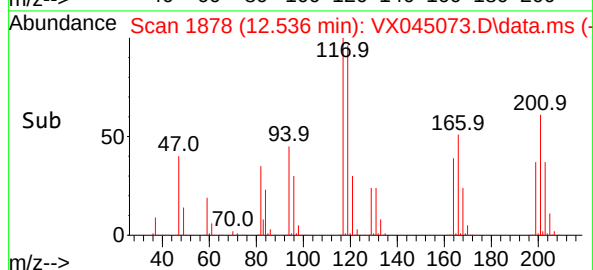
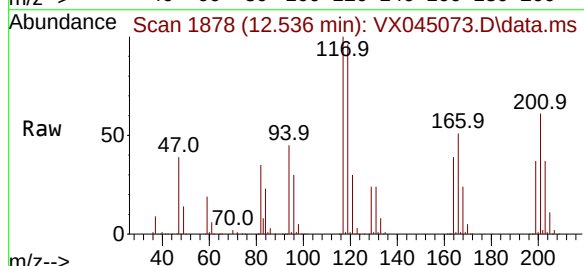
Acq: 28 Feb 2025 03:47

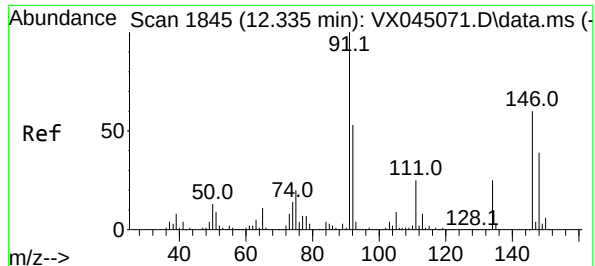
Tgt Ion:117 Resp: 128582

Ion Ratio Lower Upper

117 100

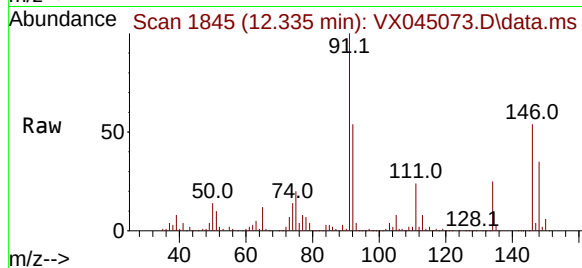
201 64.2 31.9 95.9





#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

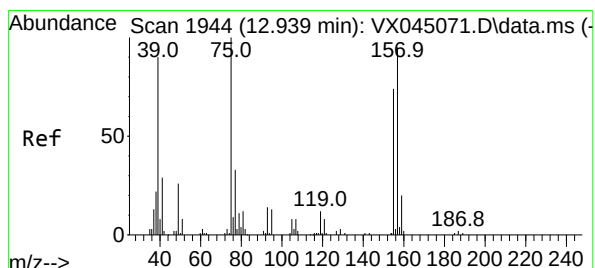
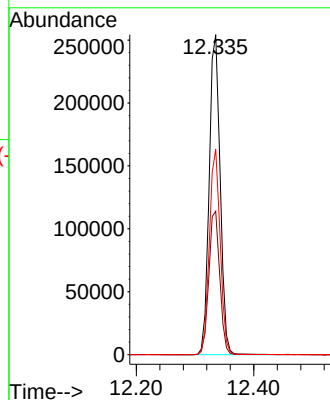
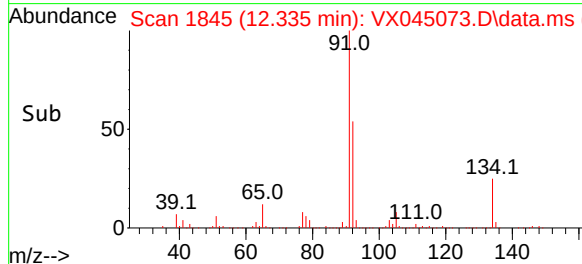
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



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

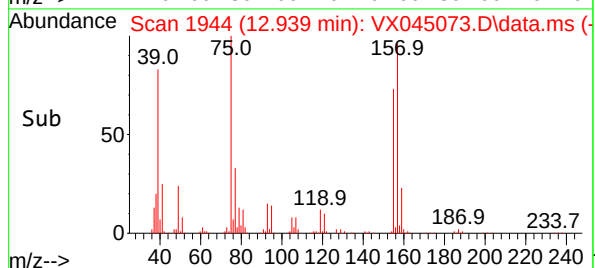
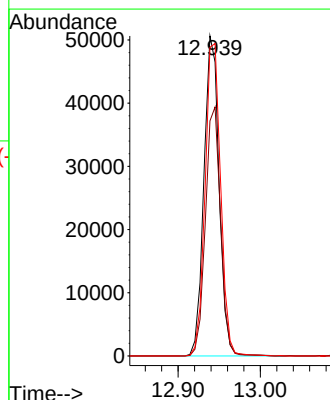
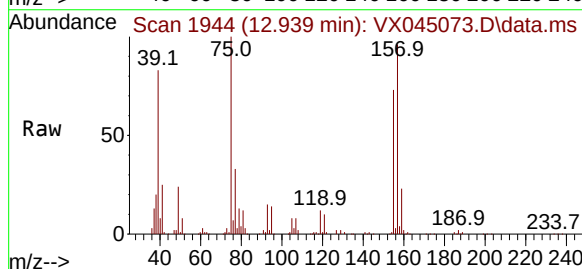
Manual Integrations
APPROVED

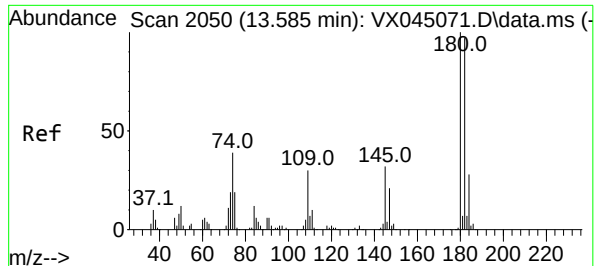
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

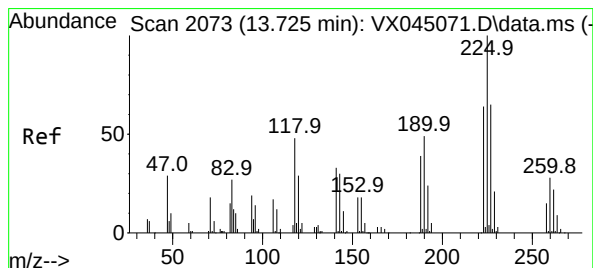
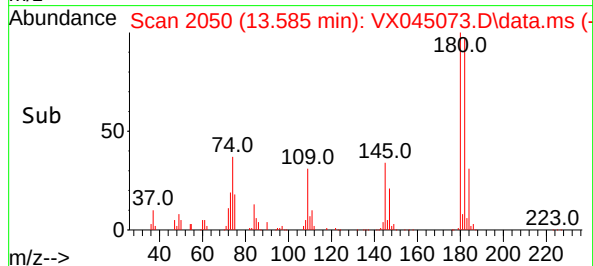
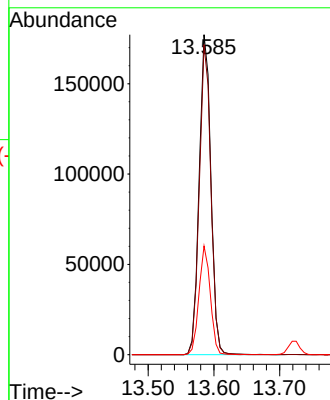
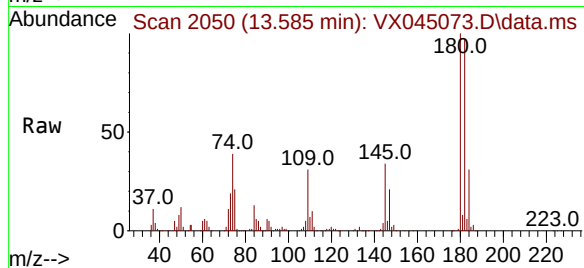
145 32.9 16.3 48.9

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

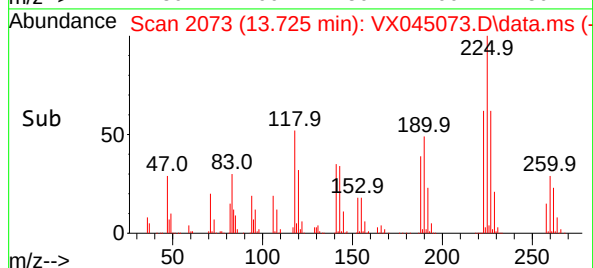
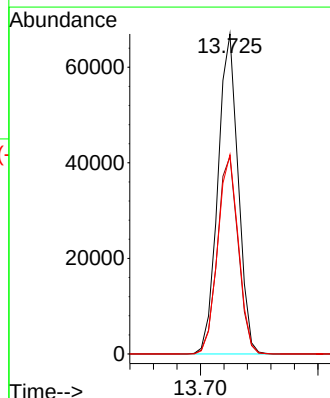
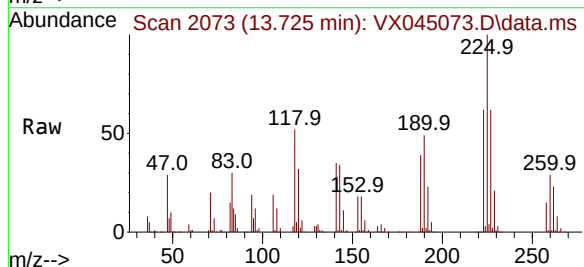
Tgt Ion:225 Resp: 80241

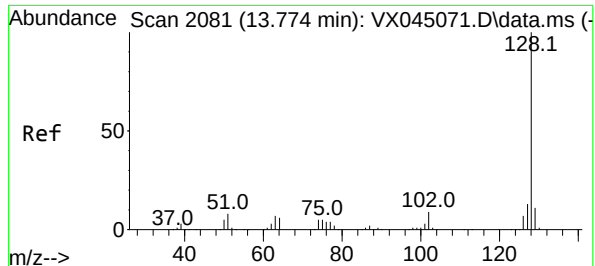
Ion Ratio Lower Upper

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

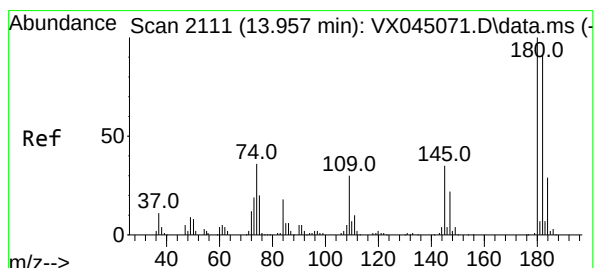
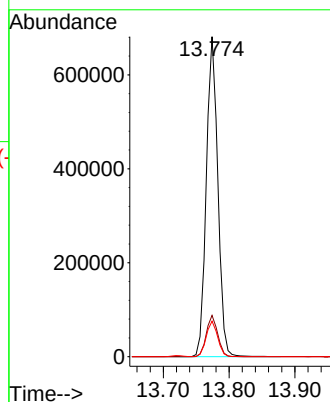
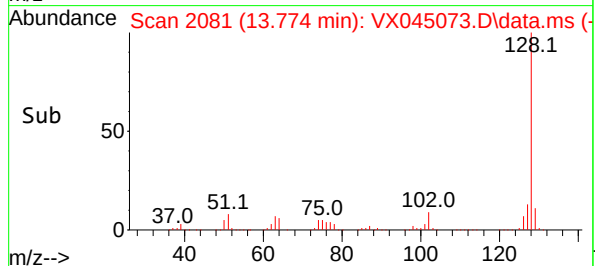
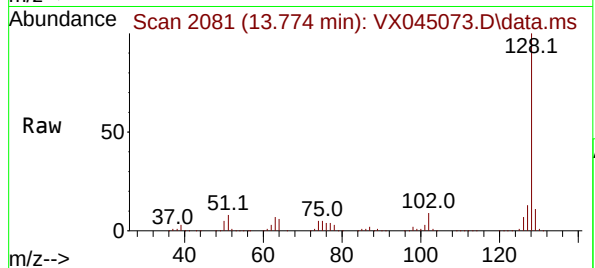
129 11.1 8.7 13.1

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

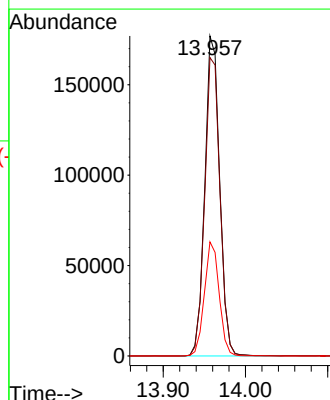
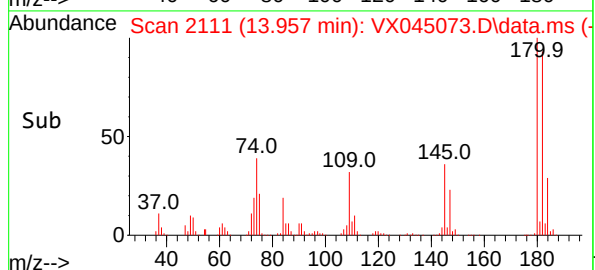
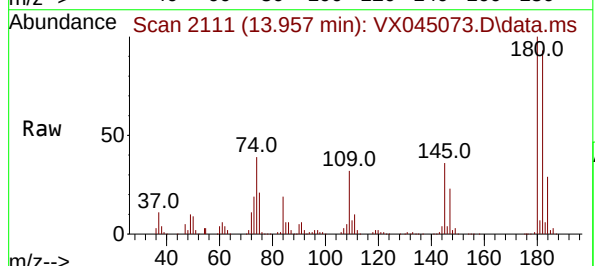
Tgt Ion:180 Resp: 222608

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)

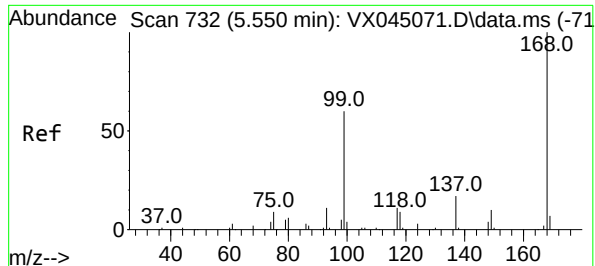
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations

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





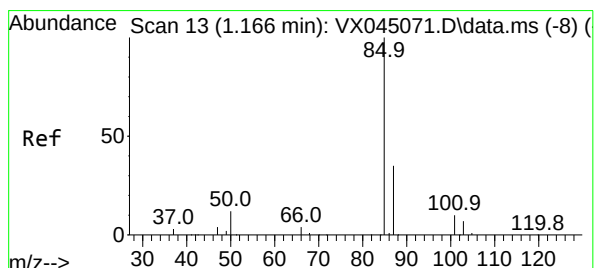
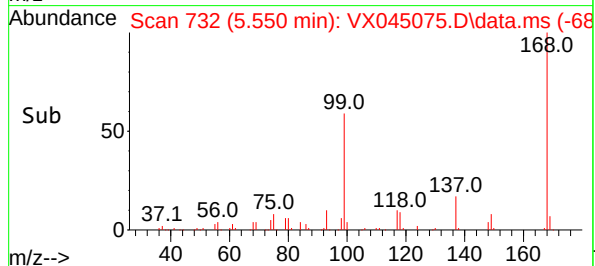
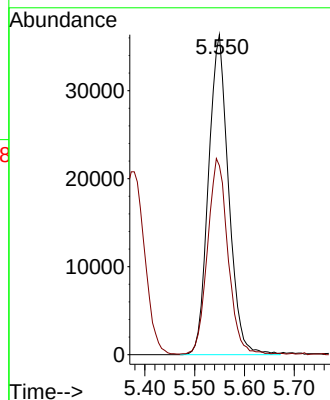
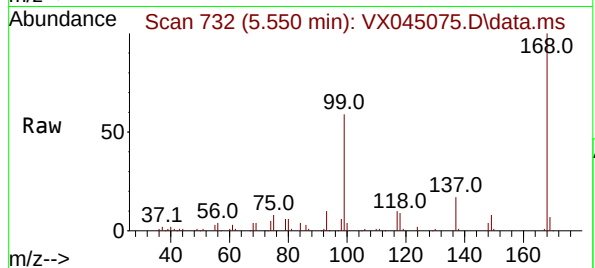
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion:168 Resp: 10160
Ion Ratio Lower Upper
168 100
99 58.9 48.2 72.4

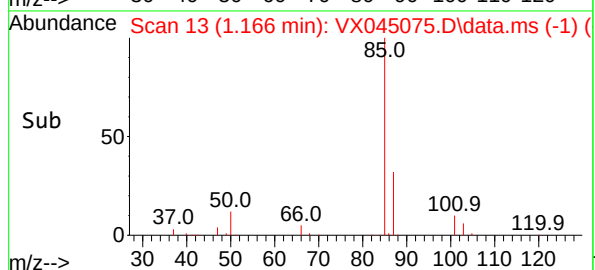
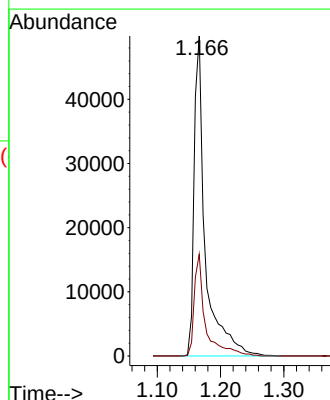
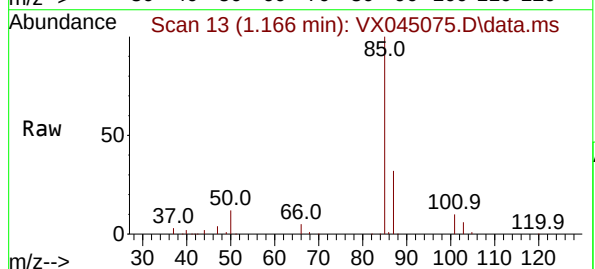
Manual Integrations
APPROVED

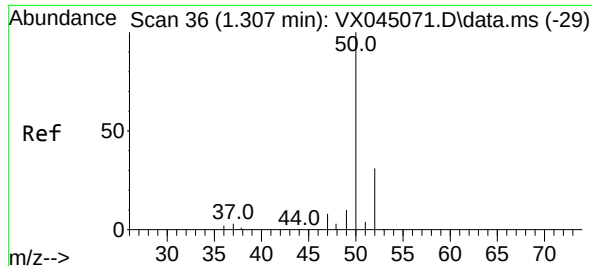
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





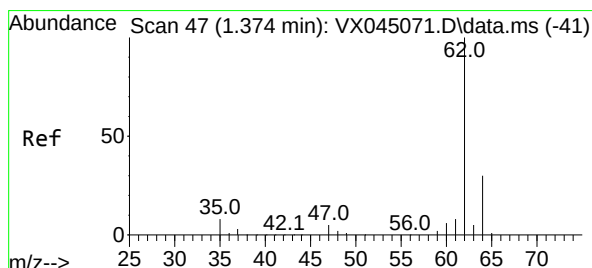
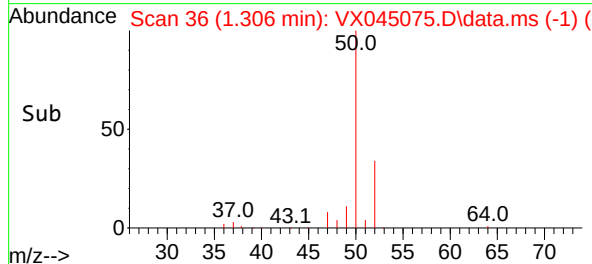
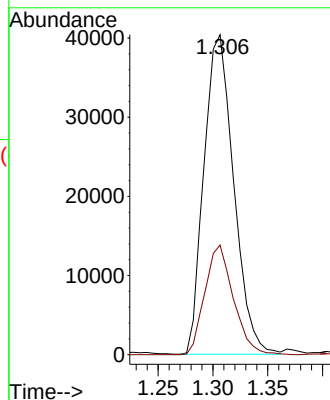
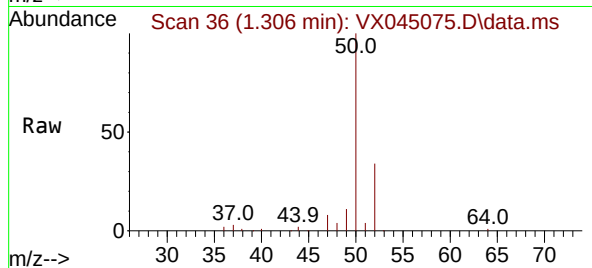
#3
Chloromethane
Concen: 48.696 ug/l
RT: 1.306 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 50 Resp: 76210
Ion Ratio Lower Upper
50 100
52 34.3 25.0 37.4

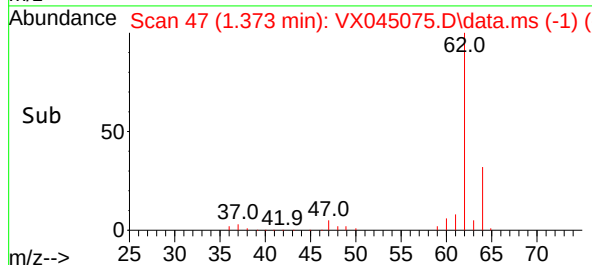
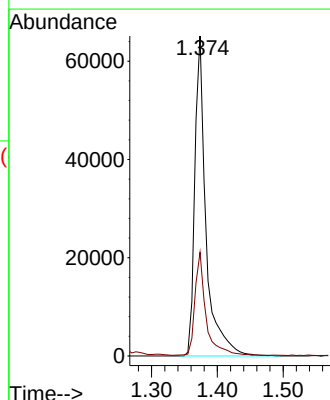
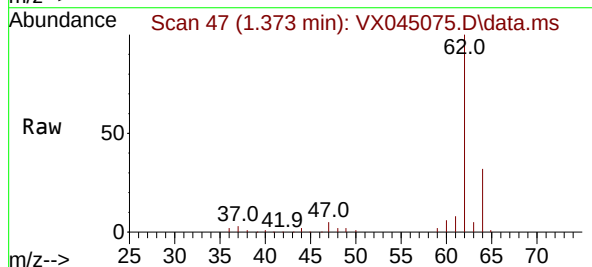
Manual Integrations
APPROVED

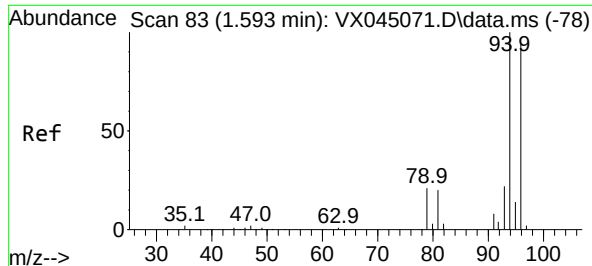
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

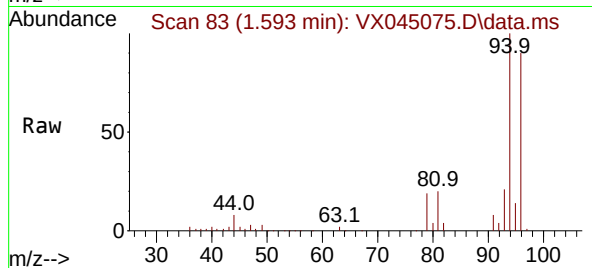
Tgt Ion: 62 Resp: 76901
Ion Ratio Lower Upper
62 100
64 32.2 24.3 36.5





#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

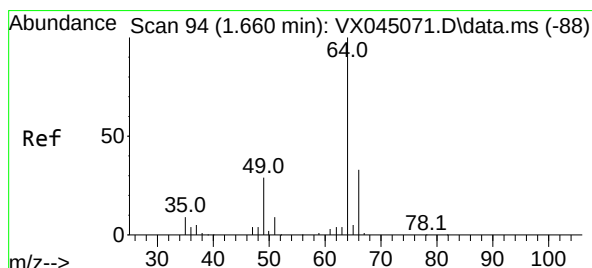
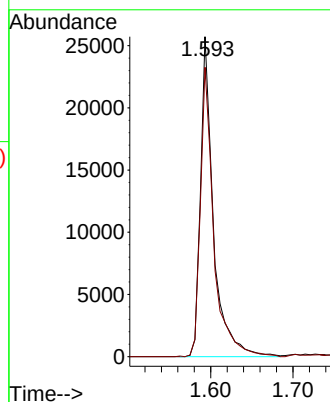
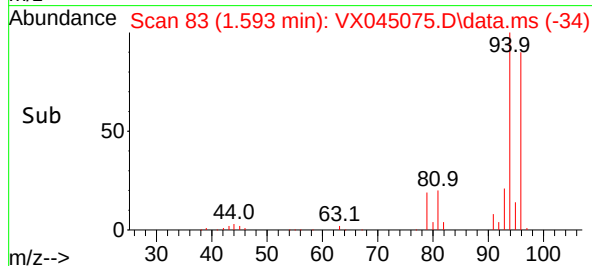
Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825



Tgt Ion: 94 Resp: 2819
Ion Ratio Lower Upper
94 100
96 90.5 75.0 112.4

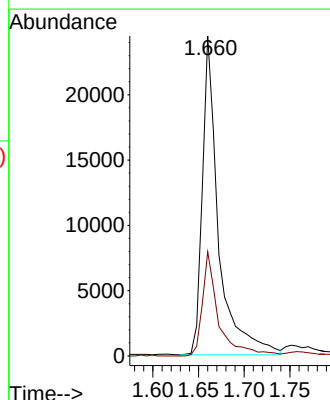
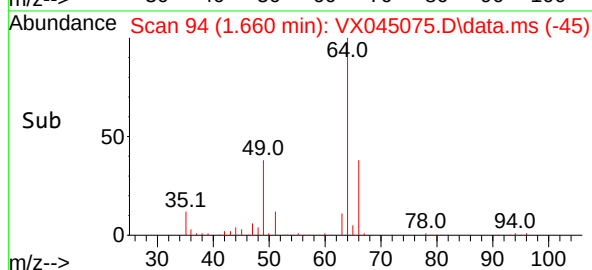
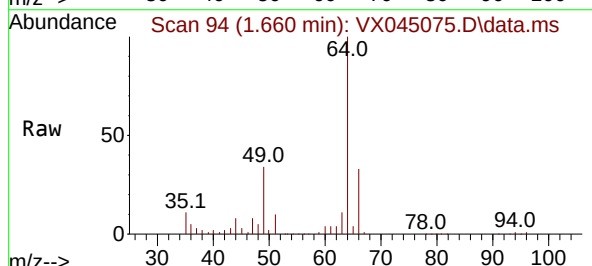
Manual Integrations
APPROVED

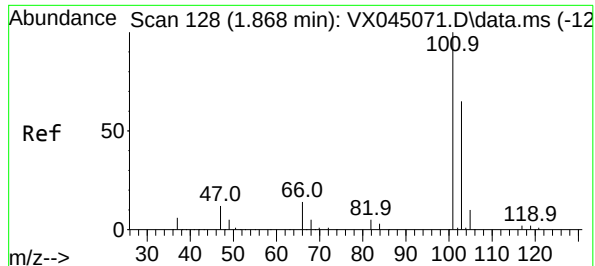
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

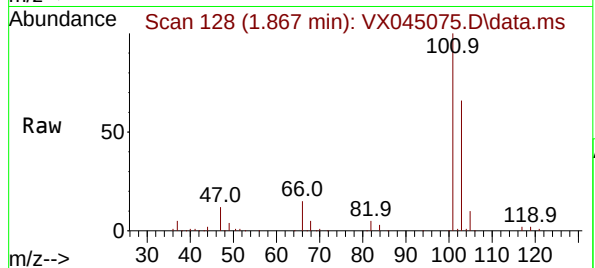
Tgt Ion: 64 Resp: 30042
Ion Ratio Lower Upper
64 100
66 32.6 26.7 40.1





#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

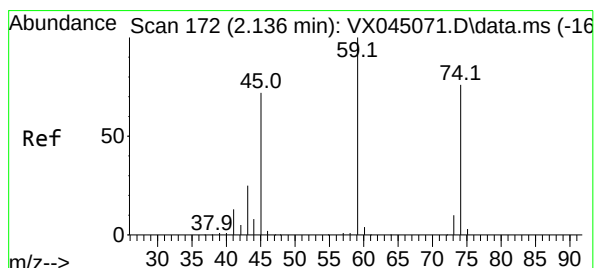
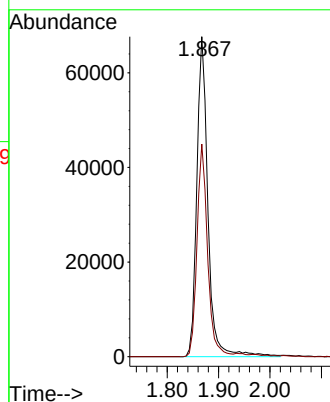
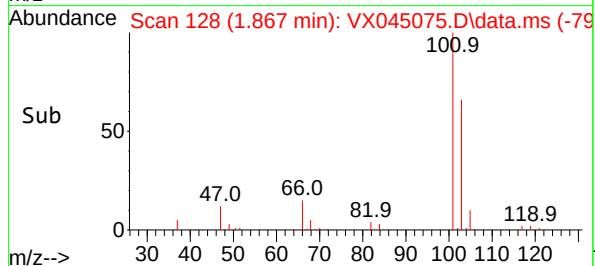
Instrument :
MSVOA_X
ClientSampleId :
ICVX022825



Tgt Ion:101 Resp: 10188
Ion Ratio Lower Upper
101 100
103 66.4 52.1 78.1

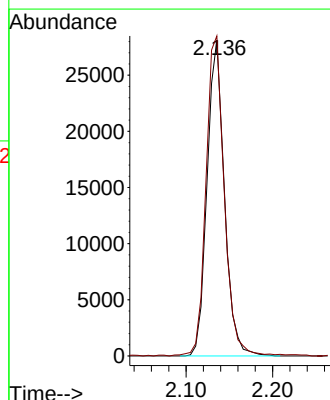
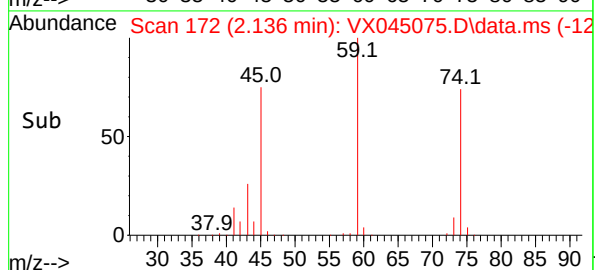
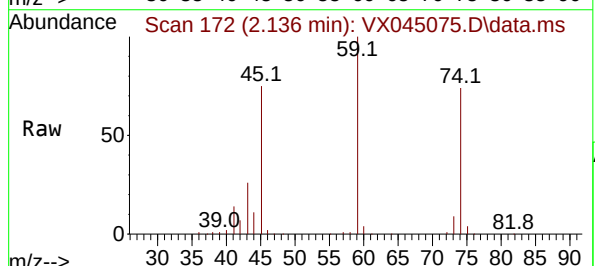
Manual Integrations
APPROVED

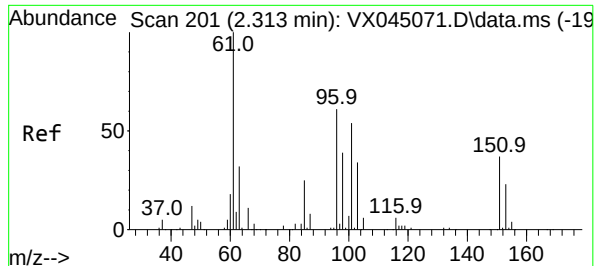
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





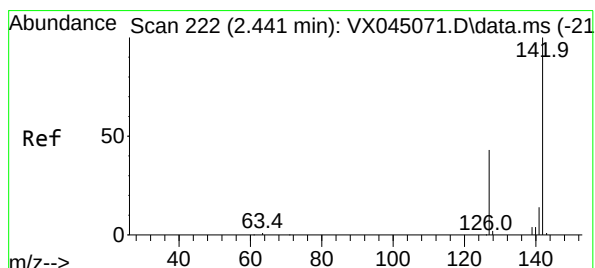
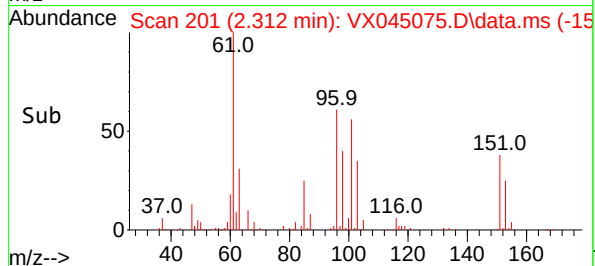
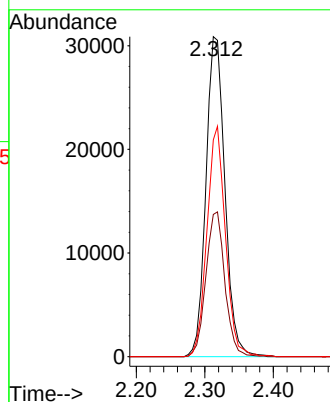
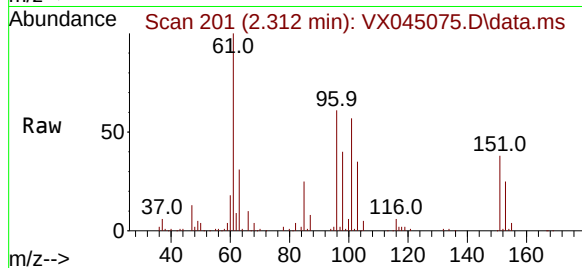
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.367 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

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

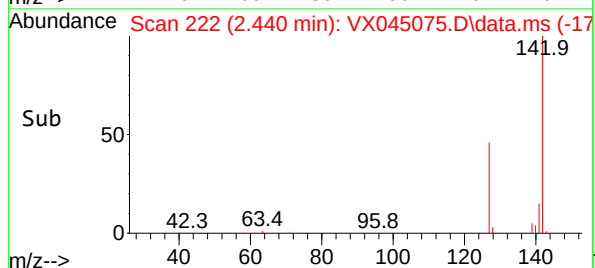
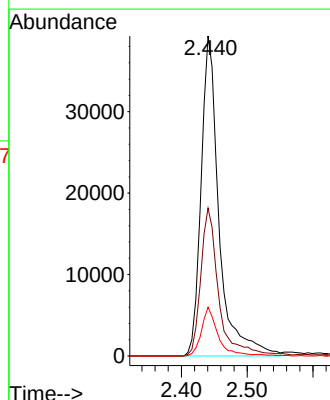
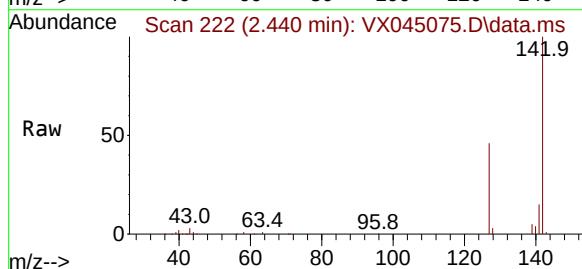
Manual Integrations
APPROVED

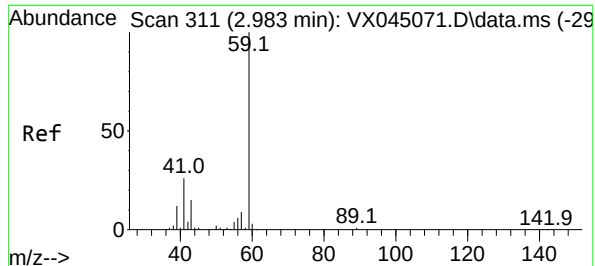
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

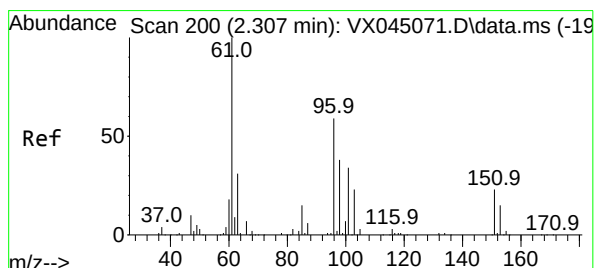
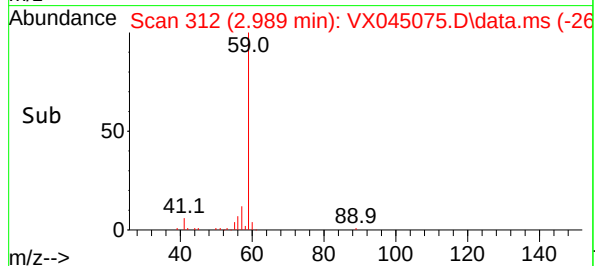
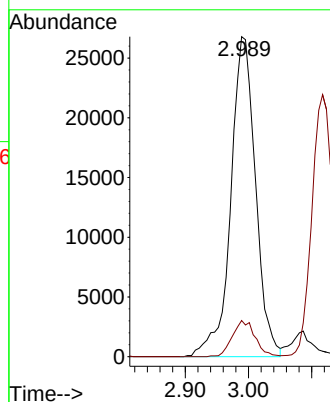
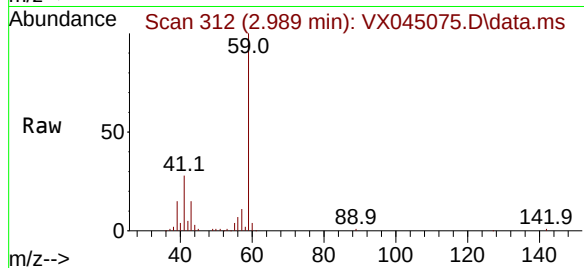
57 10.4 7.8 11.8

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

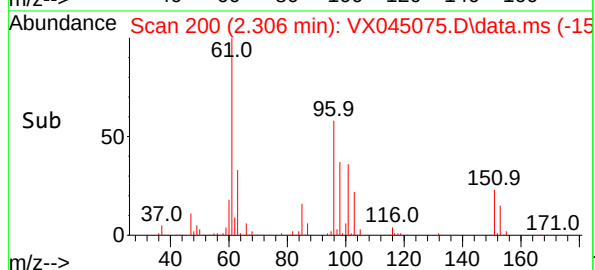
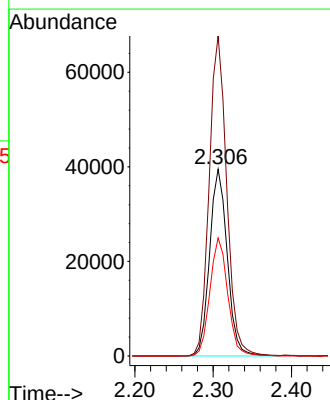
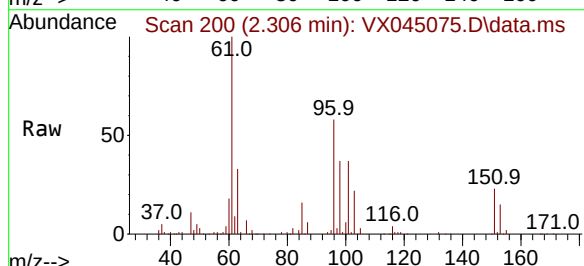
Tgt Ion: 96 Resp: 61885

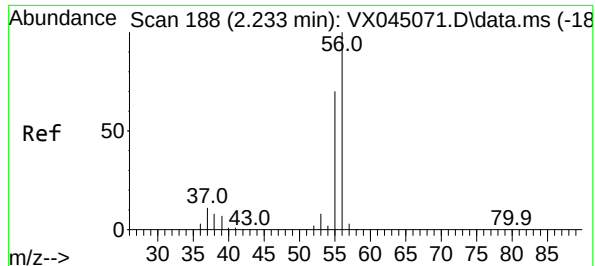
Ion Ratio Lower Upper

96 100

61 171.3 134.6 202.0

98 63.2 51.0 76.6





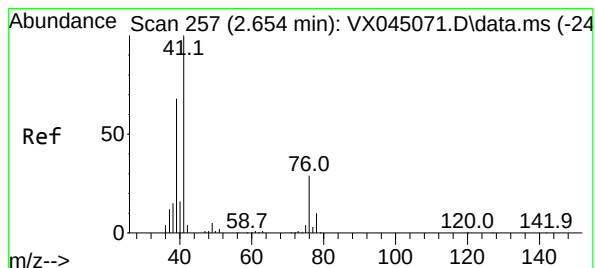
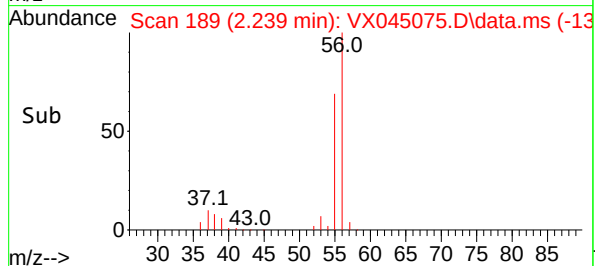
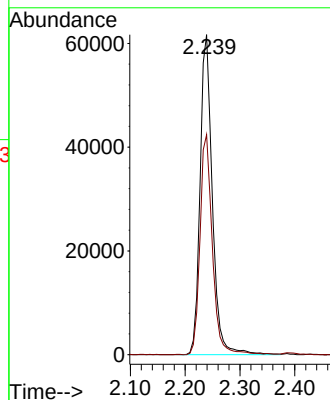
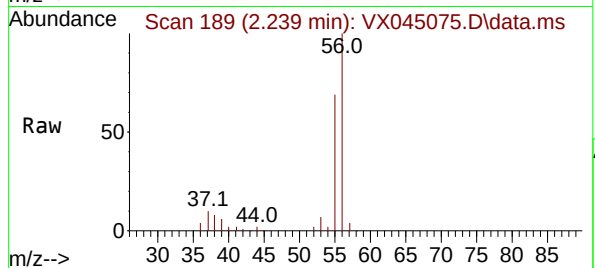
#13
Acrolein
Concen: 271.255 ug/l
RT: 2.239 min Scan# 188
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVX022825

Tgt Ion: 56 Resp: 95989
Ion Ratio Lower Upper
56 100
55 69.5 56.2 84.4

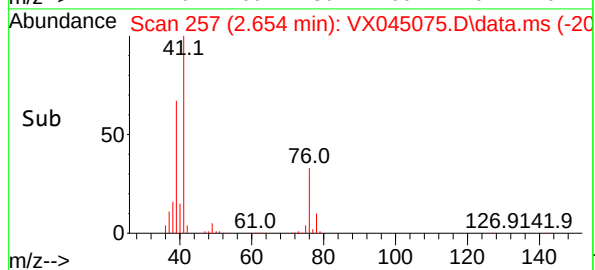
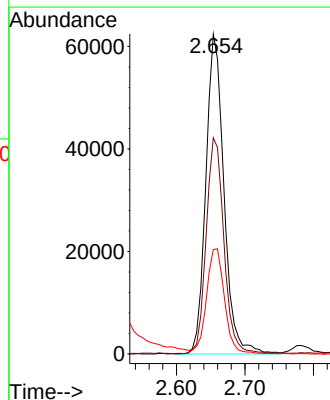
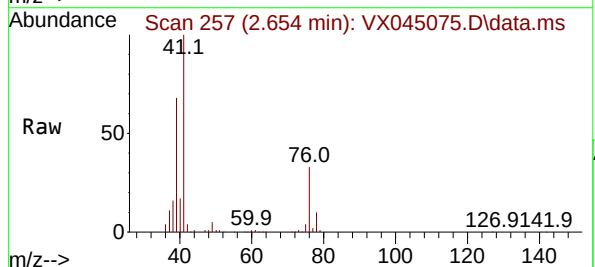
Manual Integrations
APPROVED

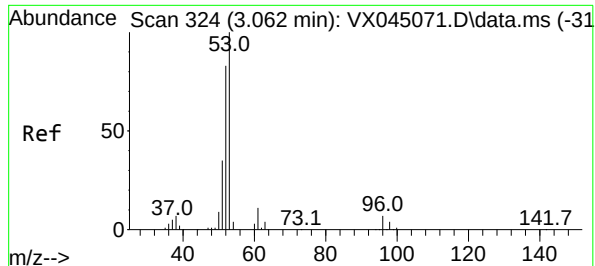
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





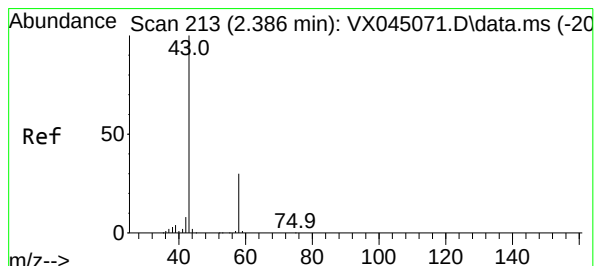
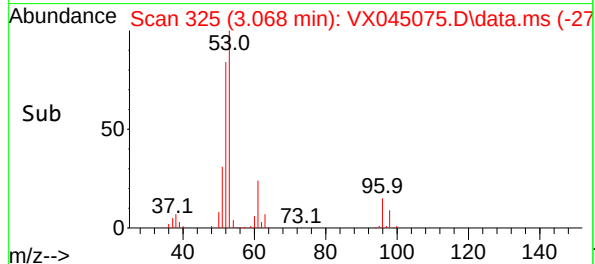
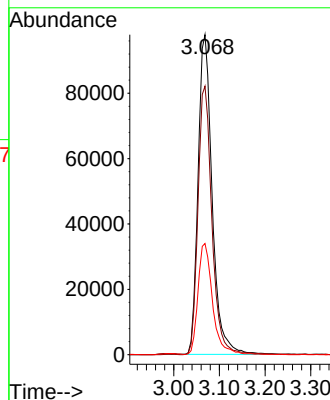
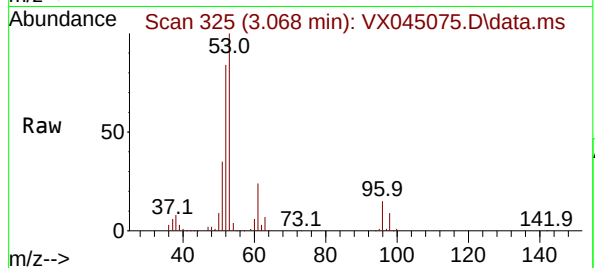
#15
Acrylonitrile
Concen: 255.479 ug/l
RT: 3.068 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

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

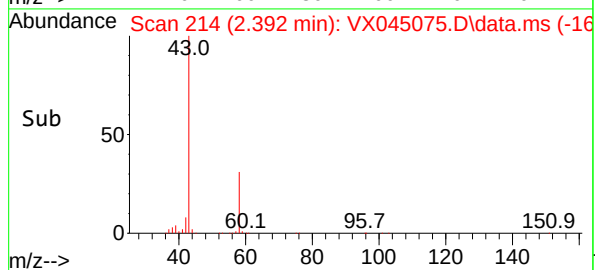
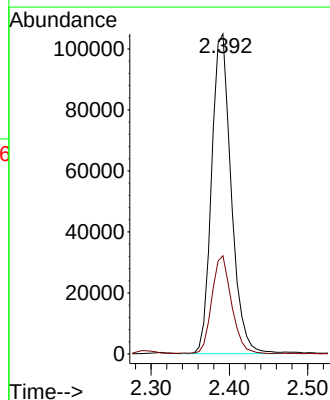
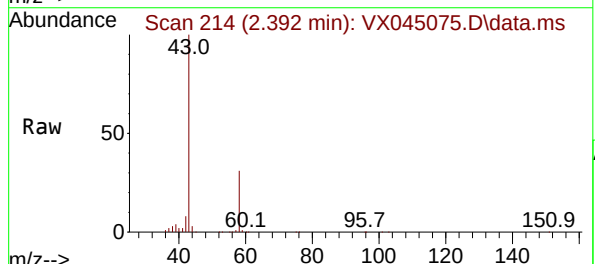
Manual Integrations
APPROVED

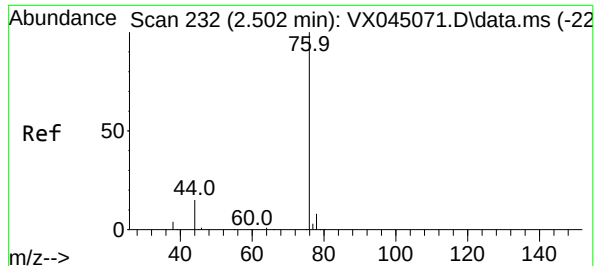
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

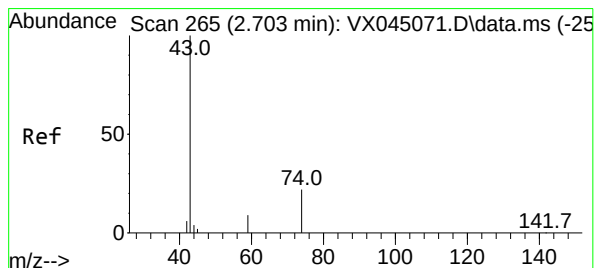
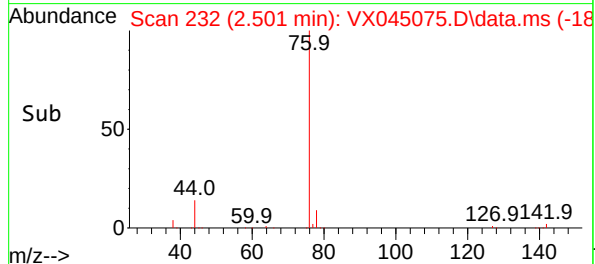
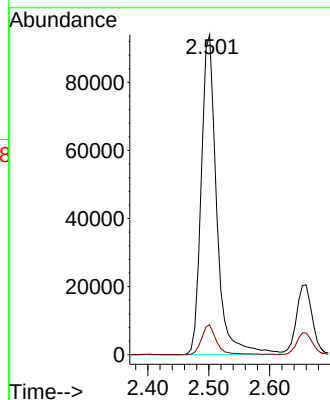
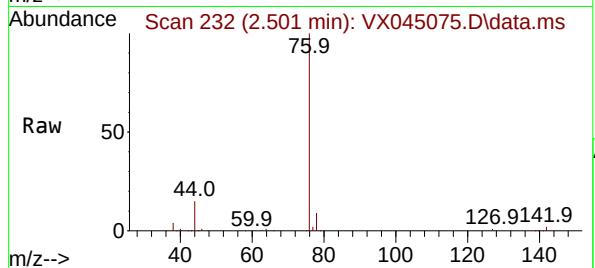
78 9.3 6.6 9.8

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

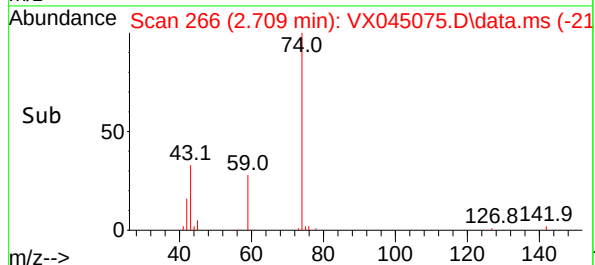
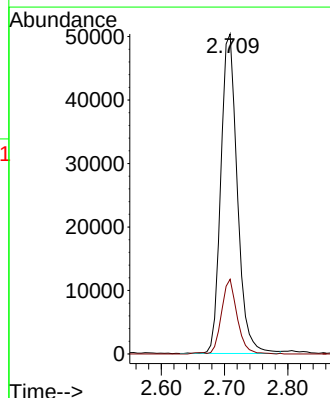
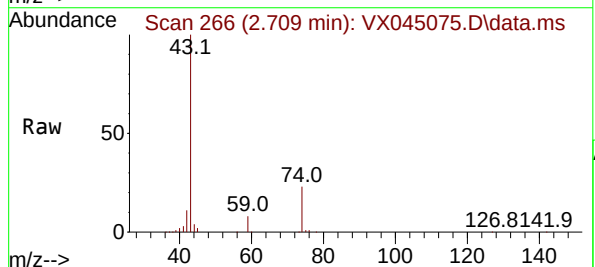
Acq: 28 Feb 2025 04:33

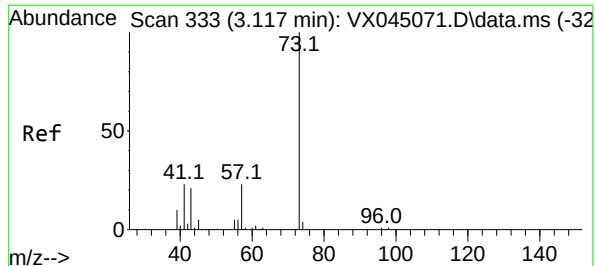
Tgt Ion: 43 Resp: 90756

Ion Ratio Lower Upper

43 100

74 22.1 17.4 26.2





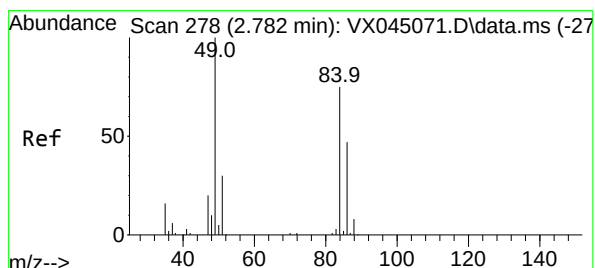
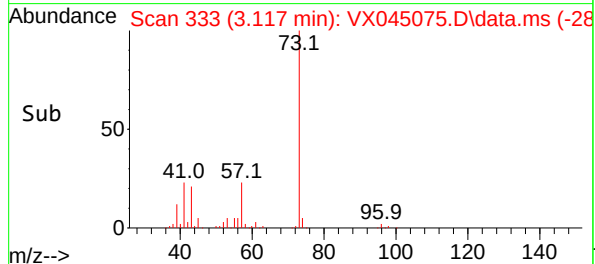
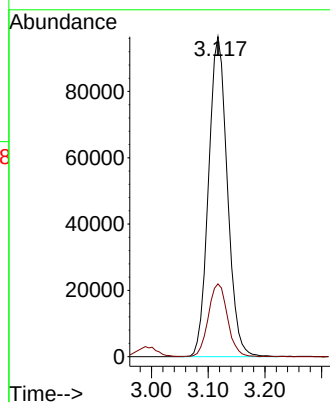
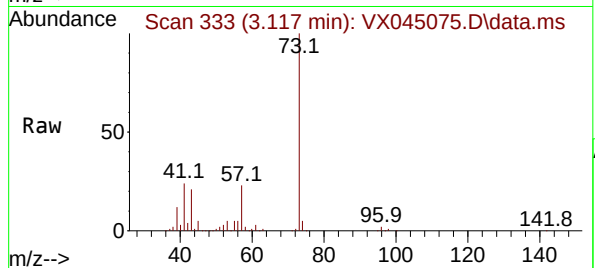
#19
Methyl tert-butyl Ether
Concen: 53.114 ug/l
RT: 3.117 min Scan# 311
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 73 Resp: 222475
Ion Ratio Lower Upper
73 100
57 22.7 18.5 27.7

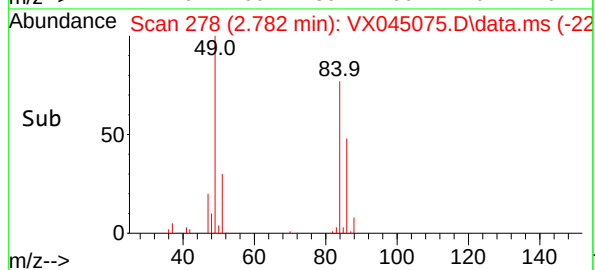
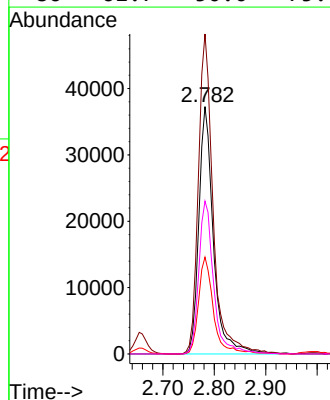
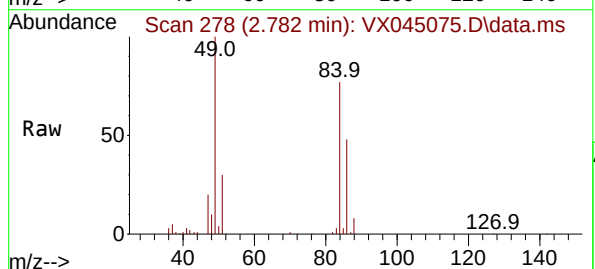
Manual Integrations
APPROVED

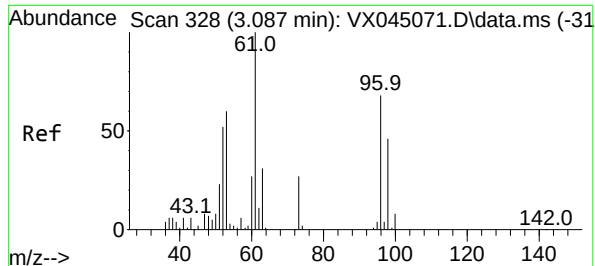
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





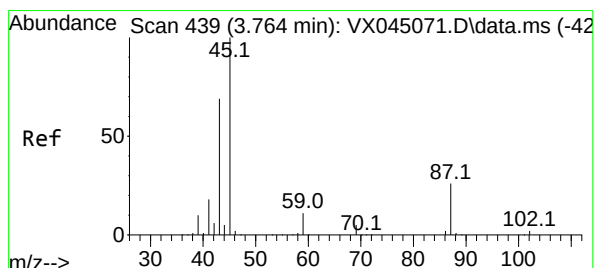
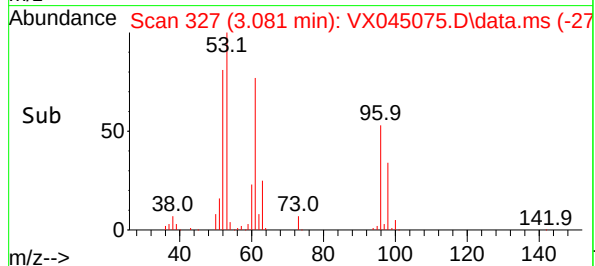
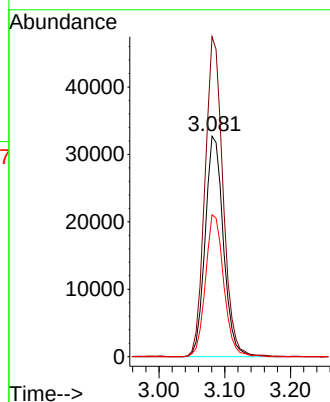
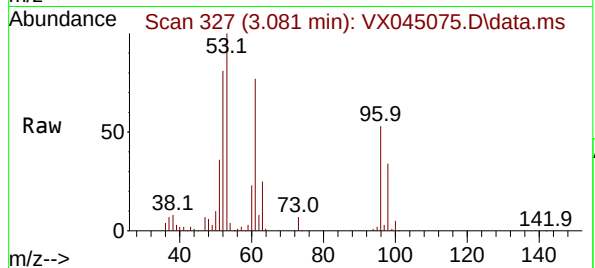
#21
trans-1,2-Dichloroethene
Concen: 51.172 ug/l
RT: 3.081 min Scan# 311
Delta R.T. -0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

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

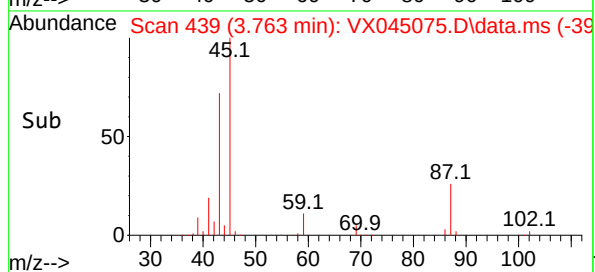
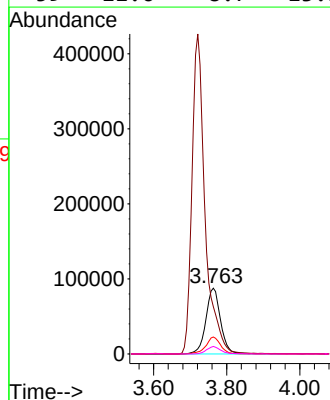
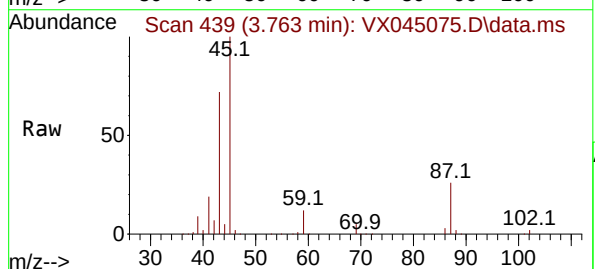
Manual Integrations
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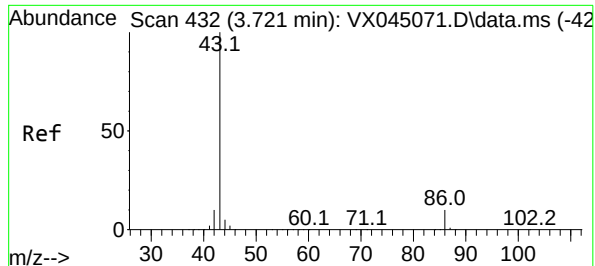
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





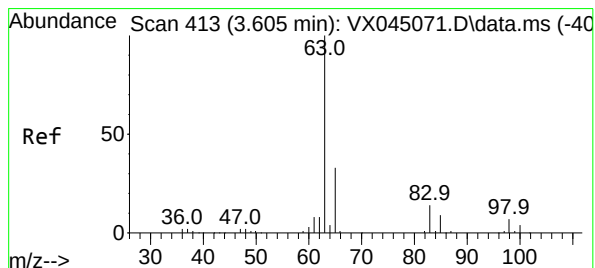
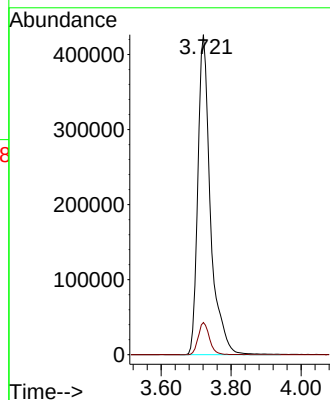
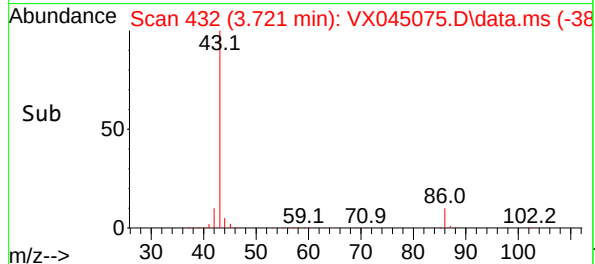
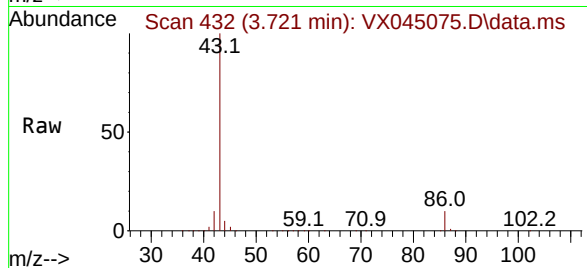
#23
Vinyl Acetate
Concen: 282.313 ug/l
RT: 3.721 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVX022825

Tgt Ion: 43 Resp: 106481
Ion Ratio Lower Upper
43 100
86 10.0 8.1 12.1

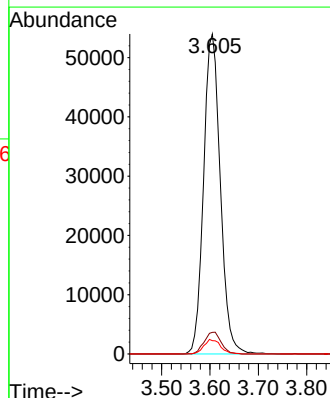
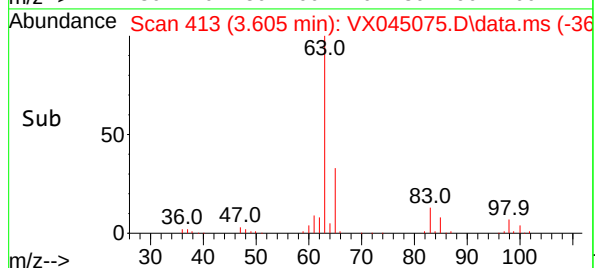
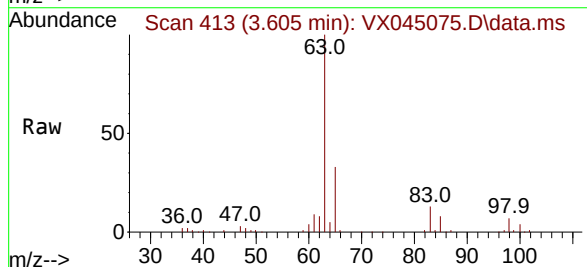
Manual Integrations
APPROVED

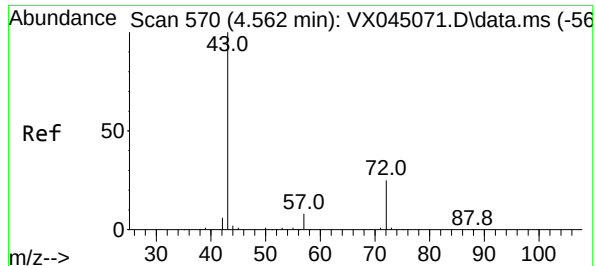
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

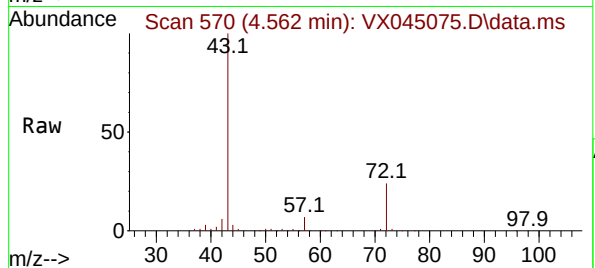
Tgt Ion: 63 Resp: 129666
Ion Ratio Lower Upper
63 100
98 6.8 3.4 10.2
100 4.1 2.1 6.5





#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

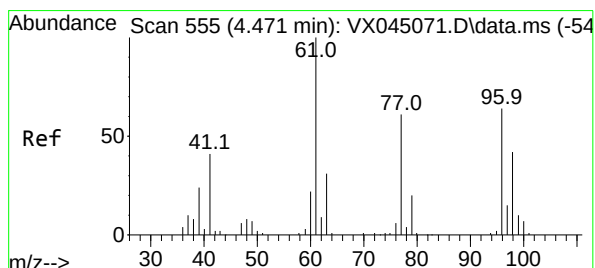
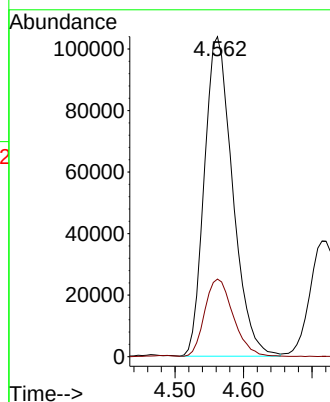
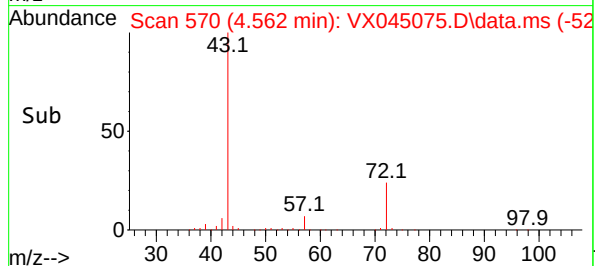
Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825



Tgt Ion: 43 Resp: 29802
Ion Ratio Lower Upper
43 100
72 24.1 20.0 30.0

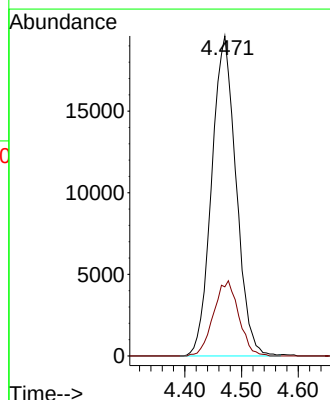
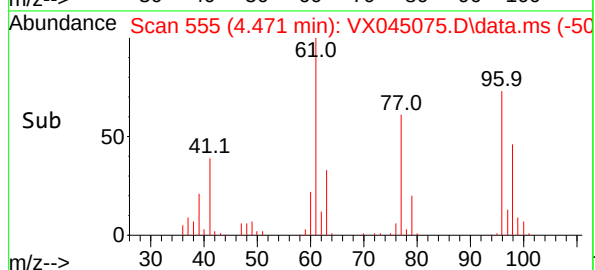
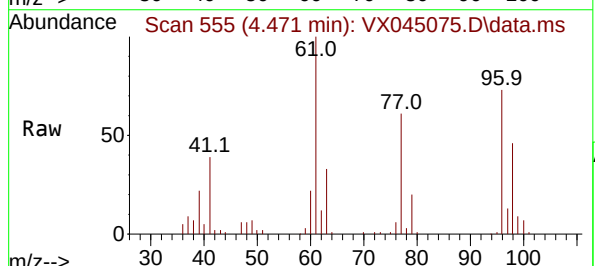
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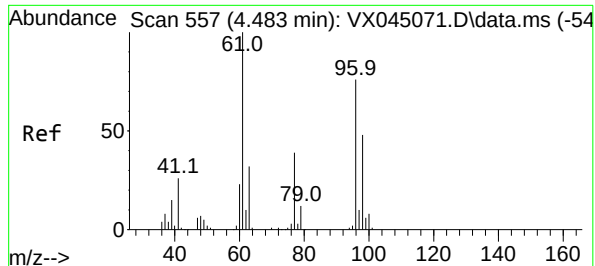
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

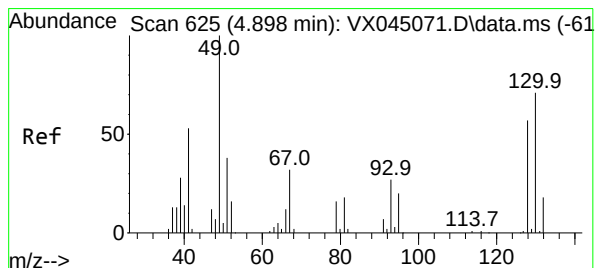
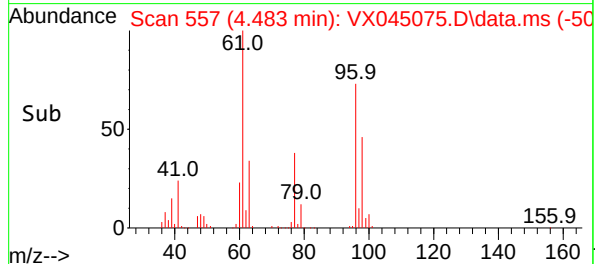
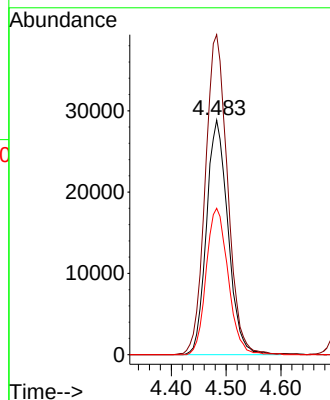
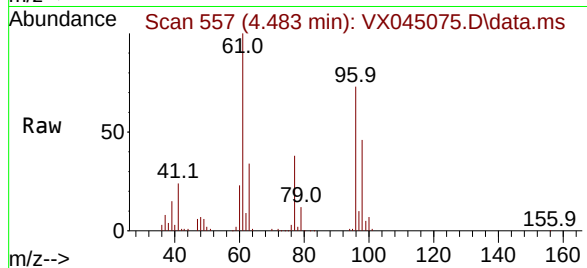
98 63.8 0.0 128.0

Manual Integrations

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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

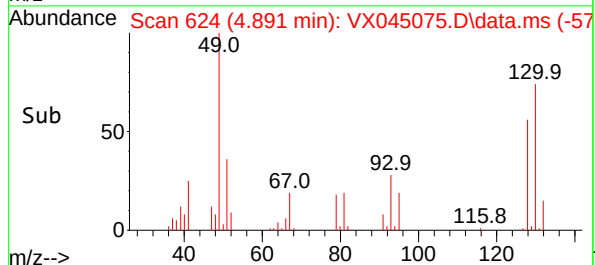
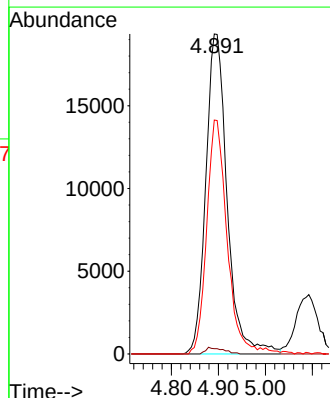
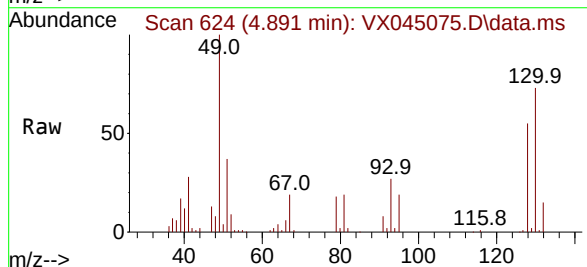
Tgt Ion: 49 Resp: 60849

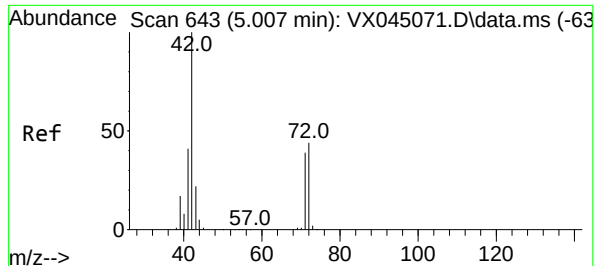
Ion Ratio Lower Upper

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

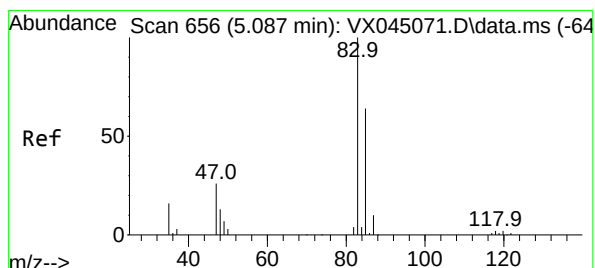
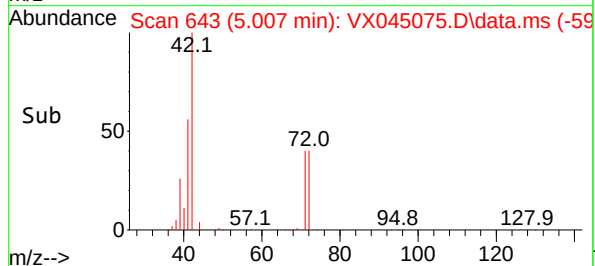
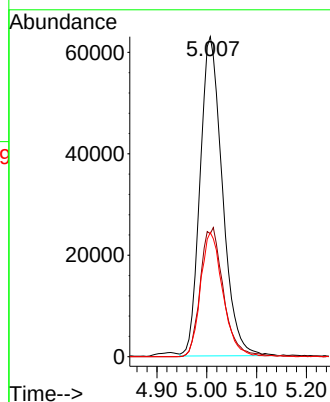
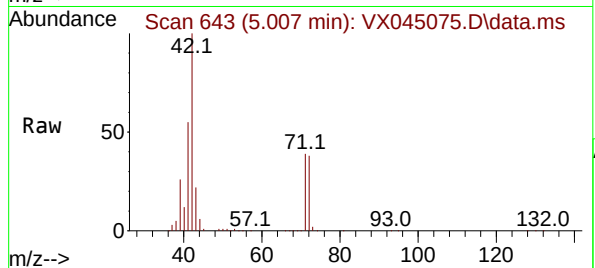
71 38.9 31.4 47.0

Manual Integrations

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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

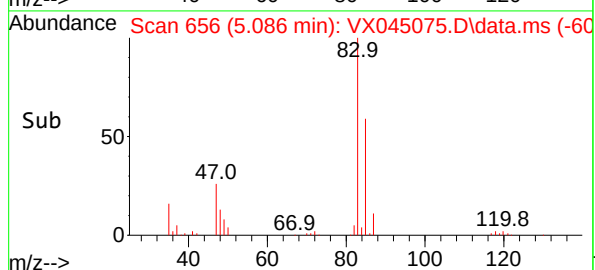
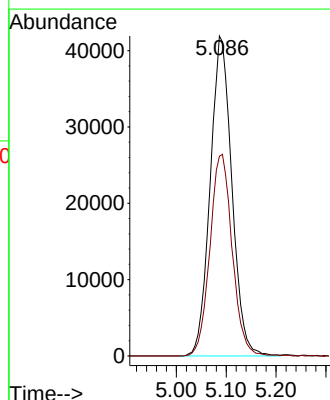
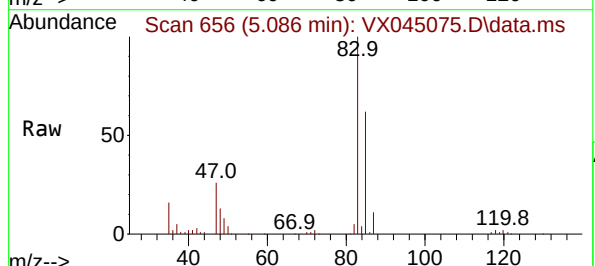
Acq: 28 Feb 2025 04:33

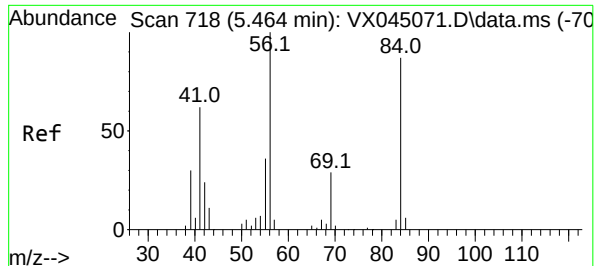
Tgt Ion: 83 Resp: 126437

Ion Ratio Lower Upper

83 100

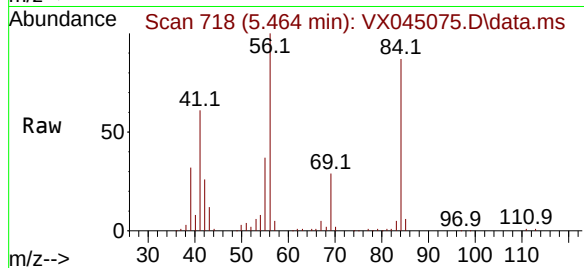
85 62.4 51.4 77.2





#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

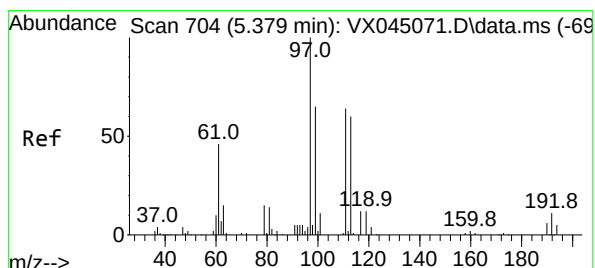
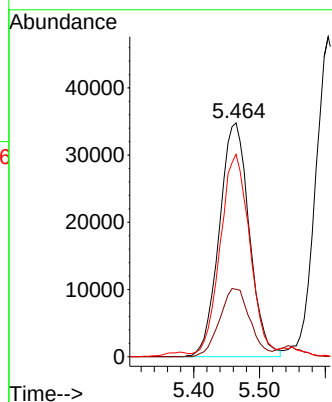
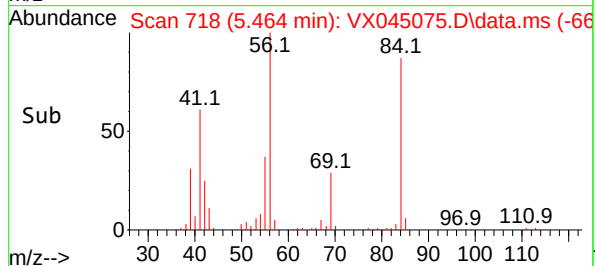
Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825



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

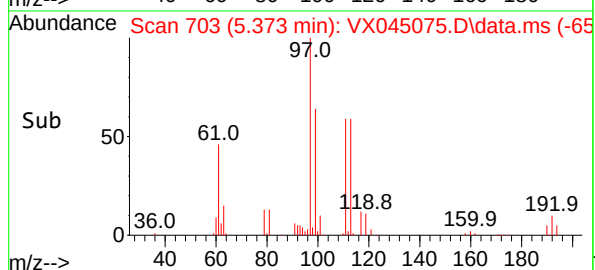
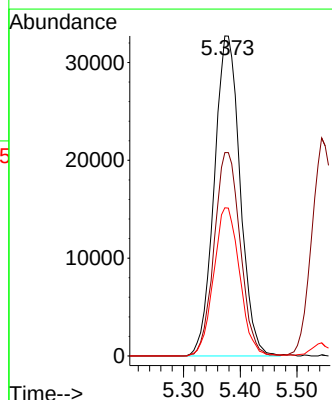
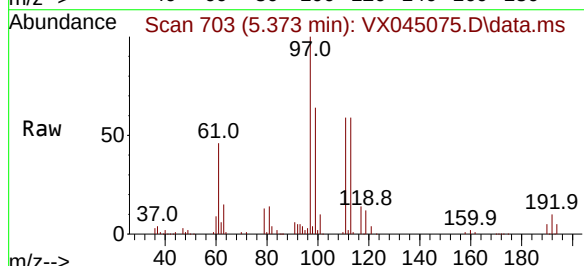
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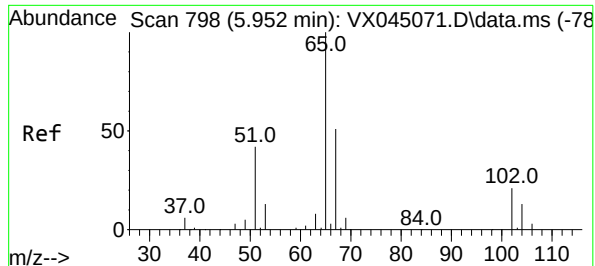
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

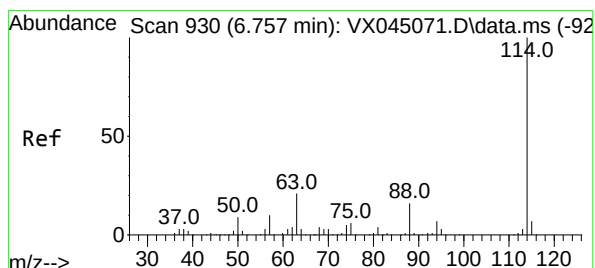
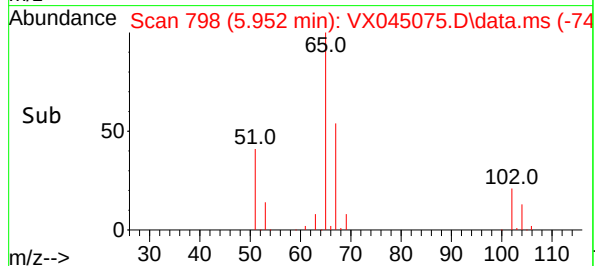
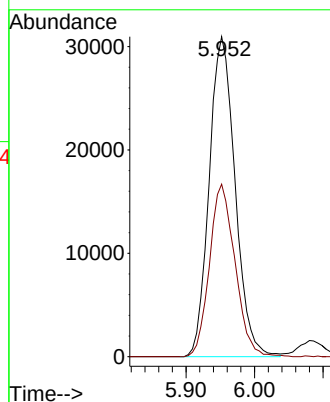
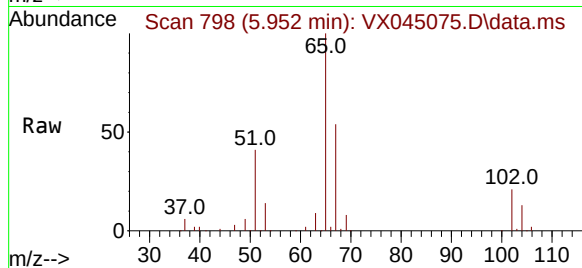
67 53.1 0.0 106.2

Manual Integrations

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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

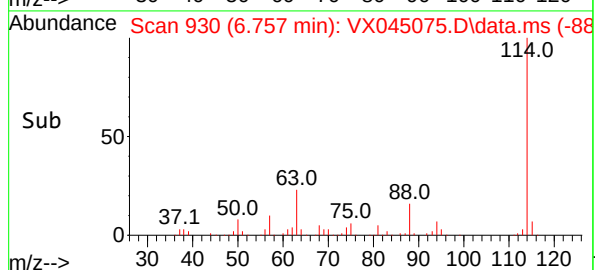
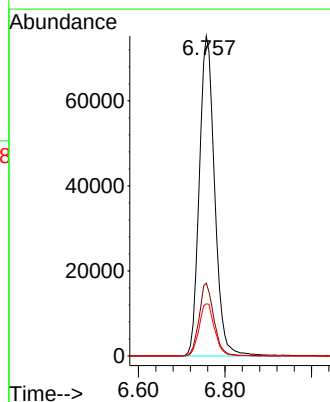
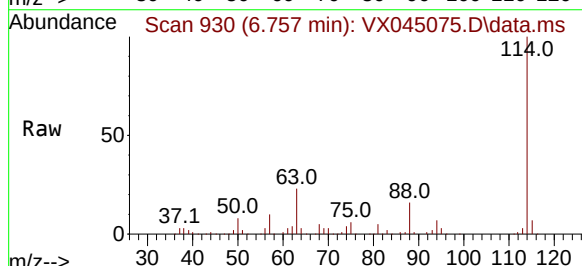
Tgt Ion:114 Resp: 184964

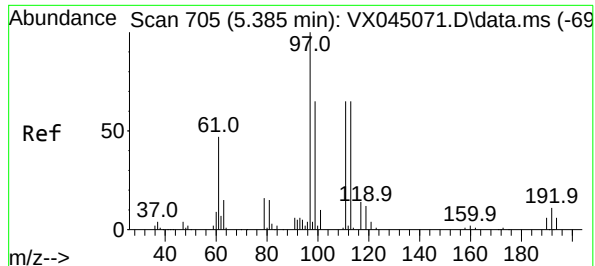
Ion Ratio Lower Upper

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

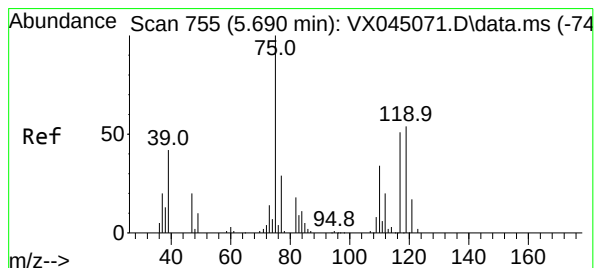
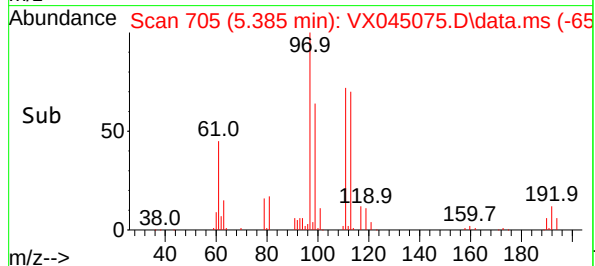
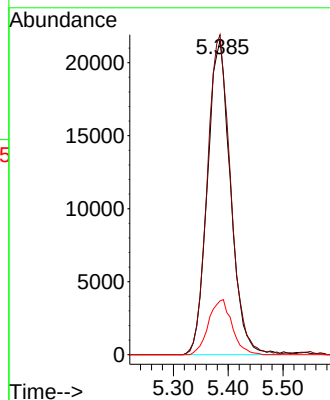
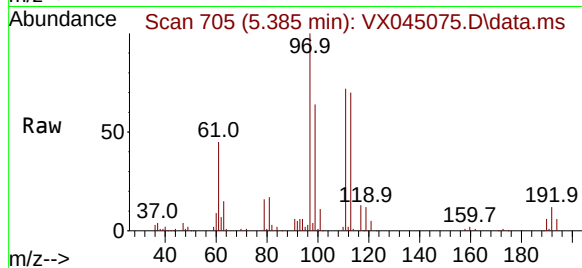
192 17.8 14.3 21.5

Manual Integrations

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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

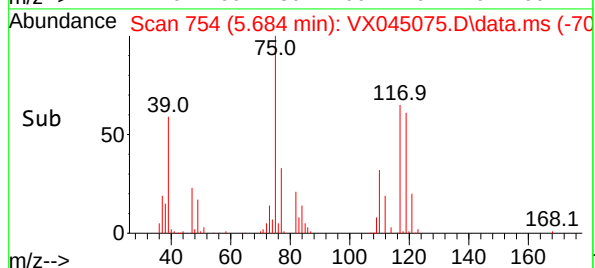
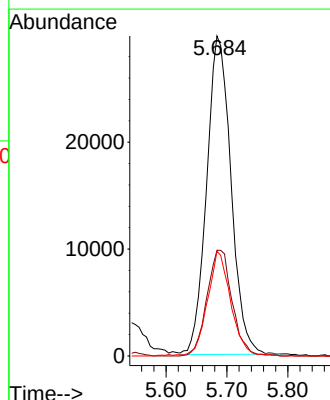
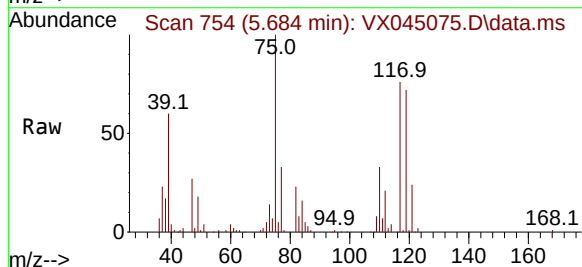
Tgt Ion: 75 Resp: 82722

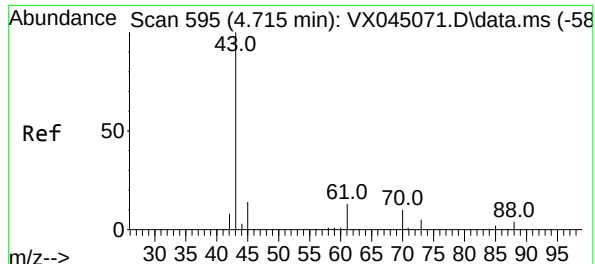
Ion Ratio Lower Upper

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

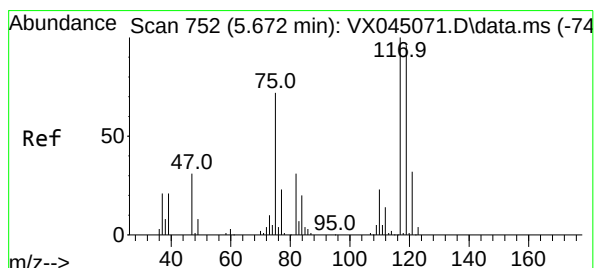
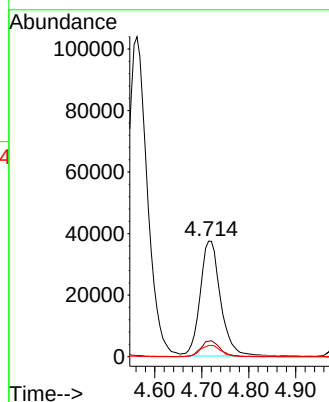
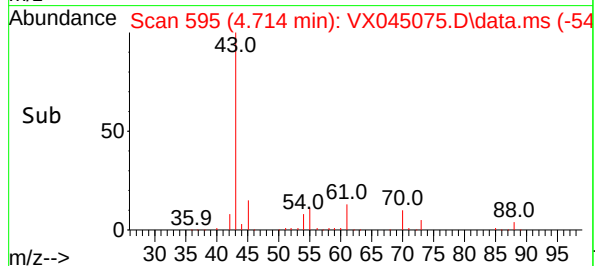
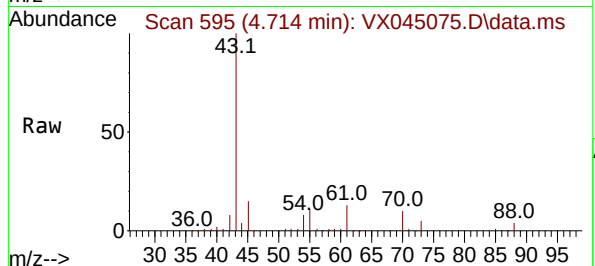
70 10.1 7.7 11.5

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

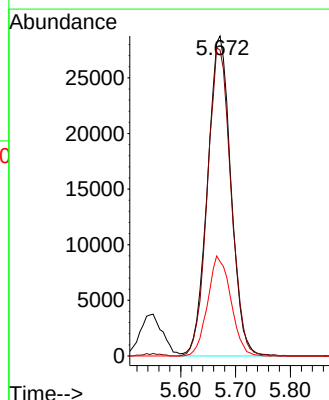
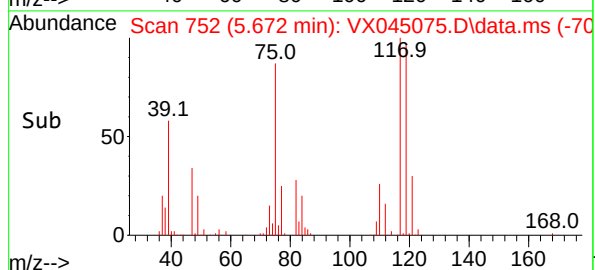
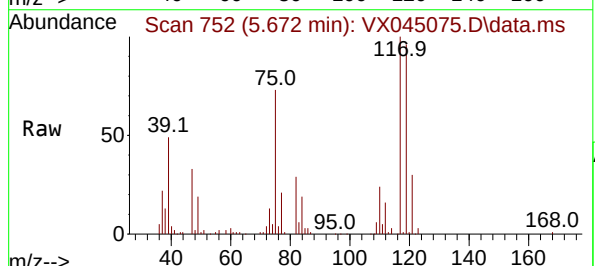
Tgt Ion:117 Resp: 85110

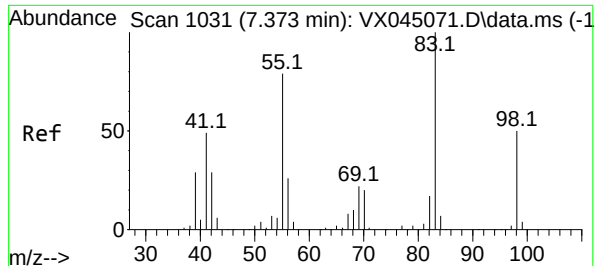
Ion Ratio Lower Upper

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

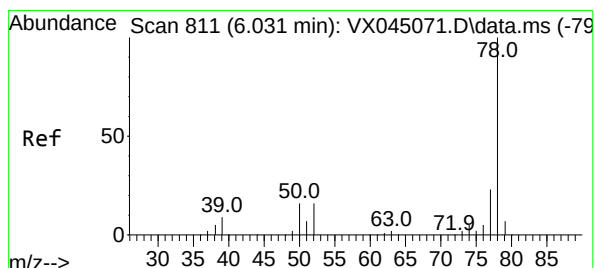
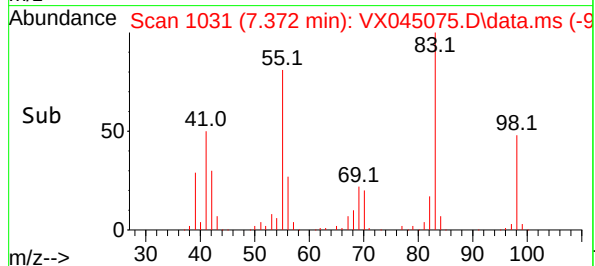
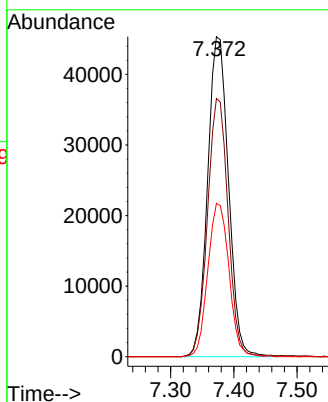
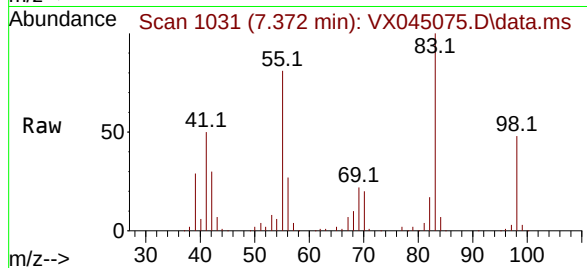
98 47.9 39.7 59.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 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

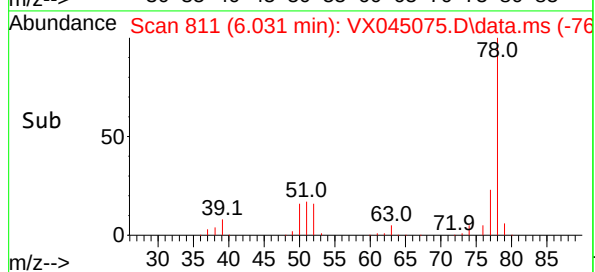
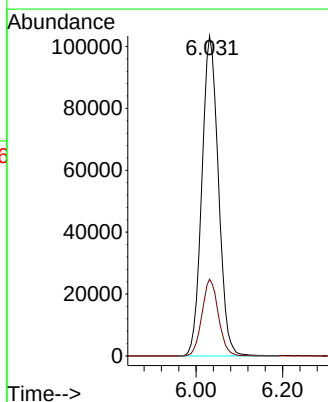
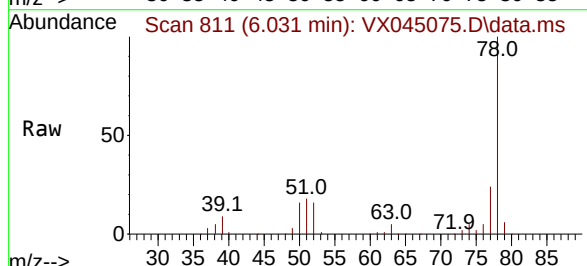
Acq: 28 Feb 2025 04:33

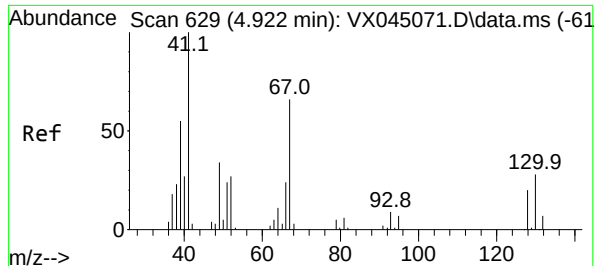
Tgt Ion: 78 Resp: 274206

Ion Ratio Lower Upper

78 100

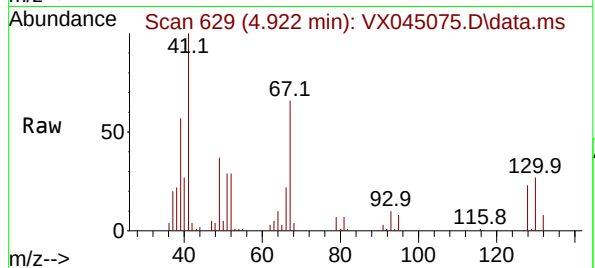
77 24.0 18.8 28.2





#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

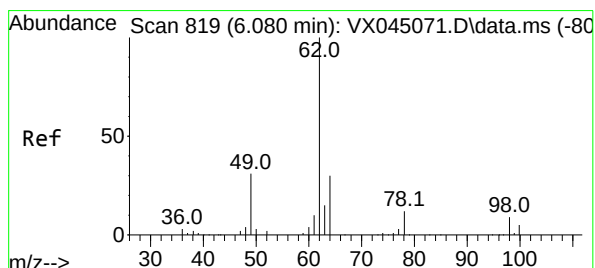
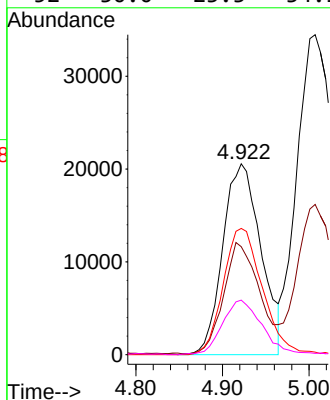
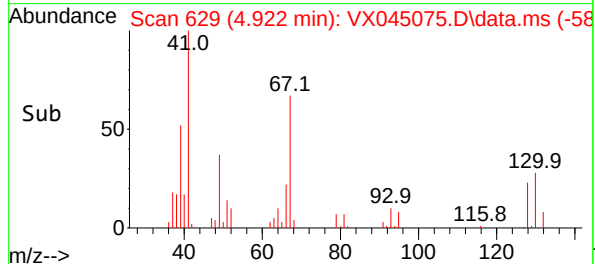
Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825



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

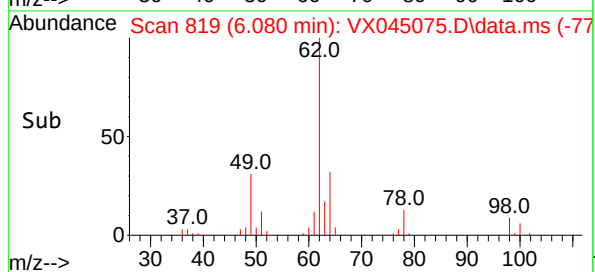
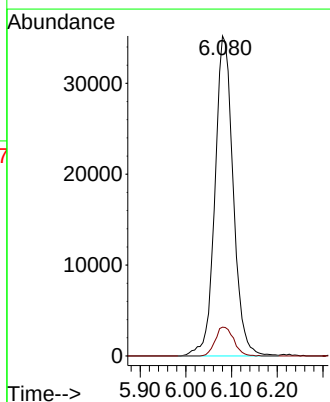
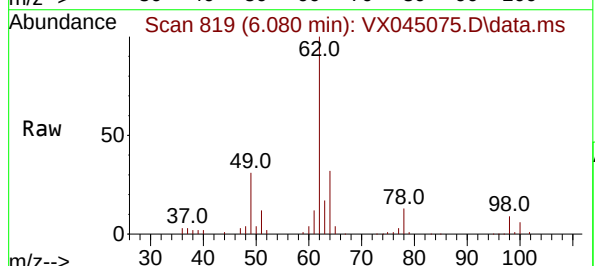
Manual Integrations
APPROVED

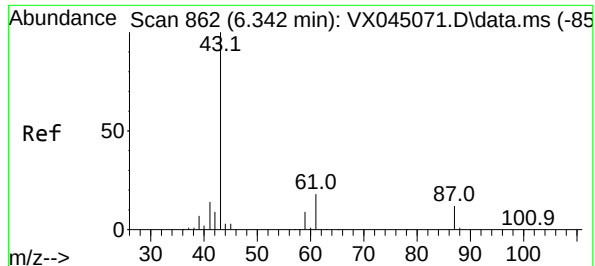
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

87

18.5 14.9 22.3

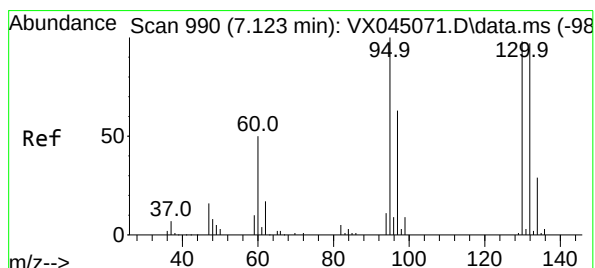
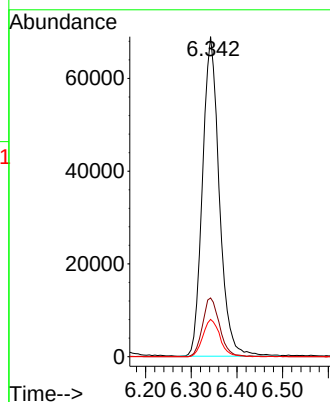
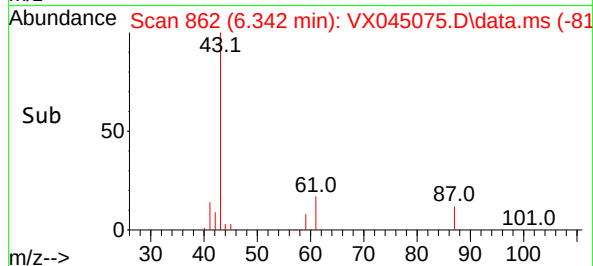
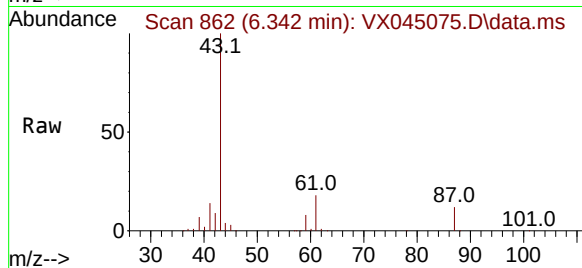
11.8 9.4 14.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#44

Trichloroethene

Concen: 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

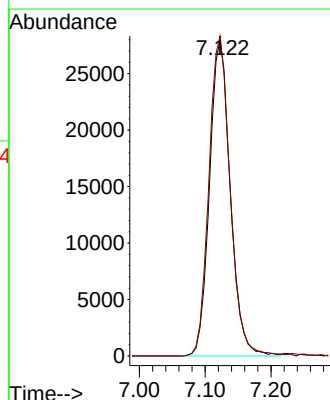
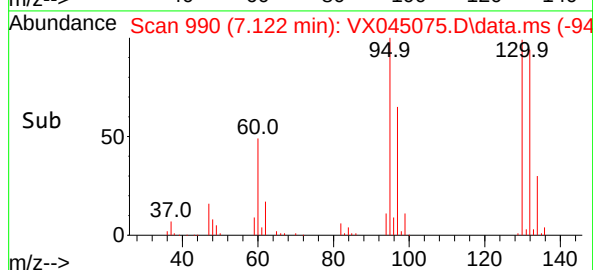
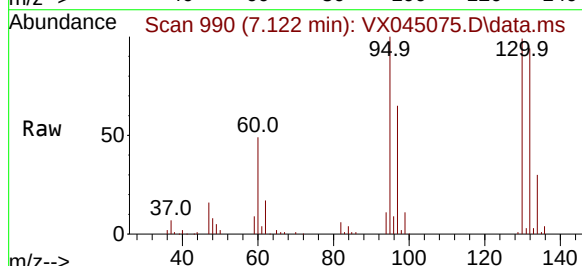
Ion Ratio Lower Upper

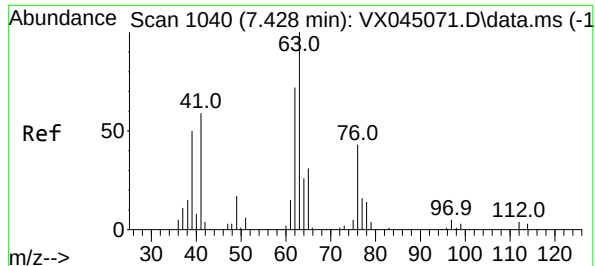
130

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

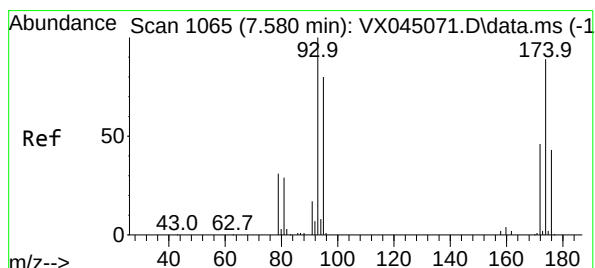
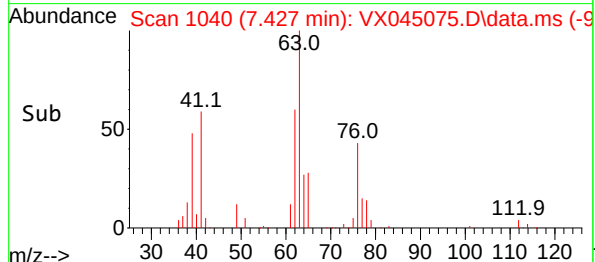
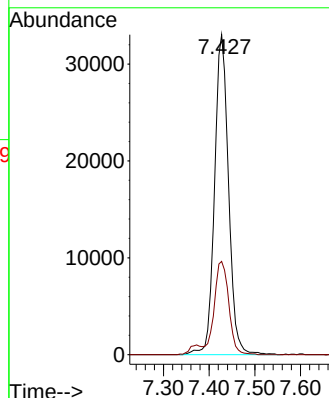
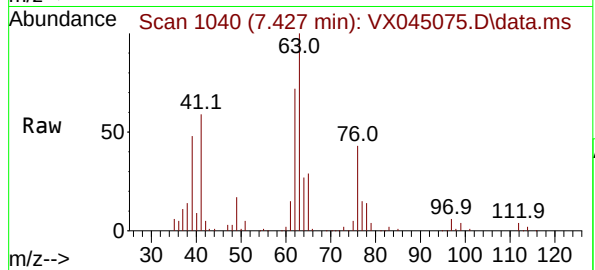
65 29.2 24.7 37.1

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

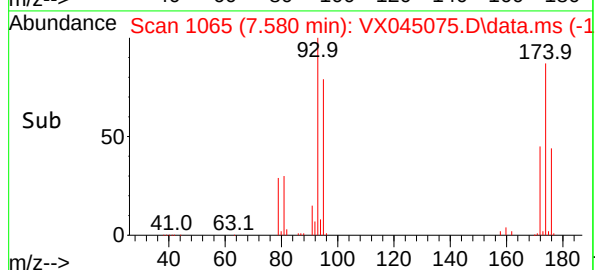
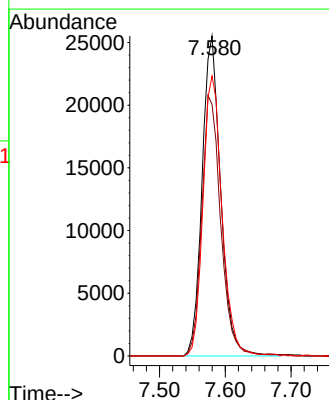
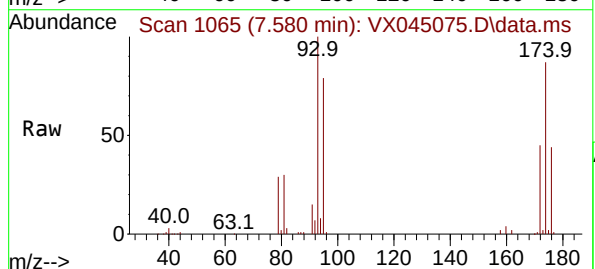
Tgt Ion: 93 Resp: 50284

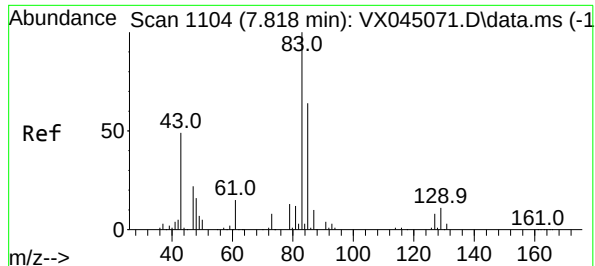
Ion Ratio Lower Upper

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

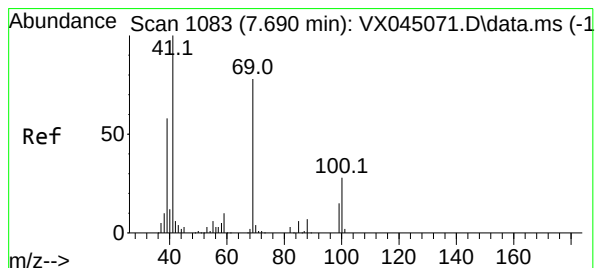
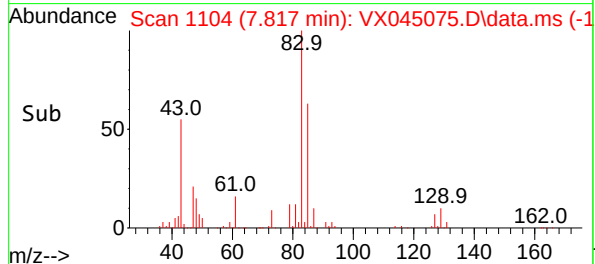
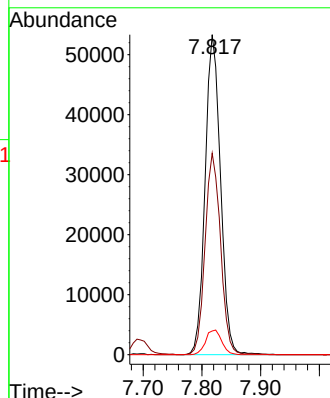
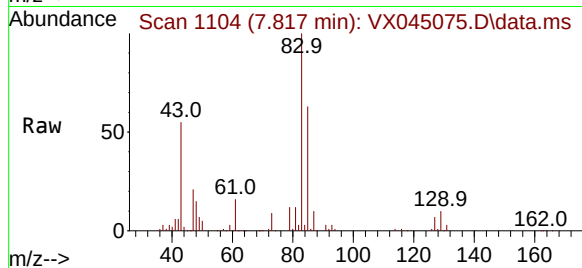
Tgt Ion: 83 Resp: 97230
Ion Ratio Lower Upper
83 100
85 63.0 51.1 76.7
127 7.4 6.4 9.6

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

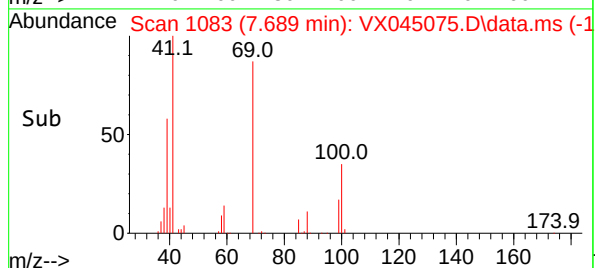
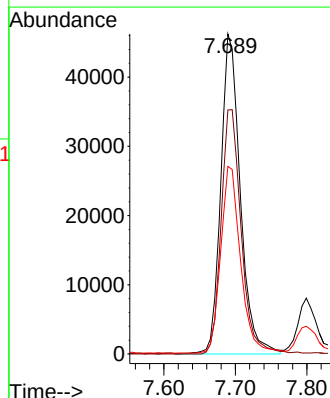
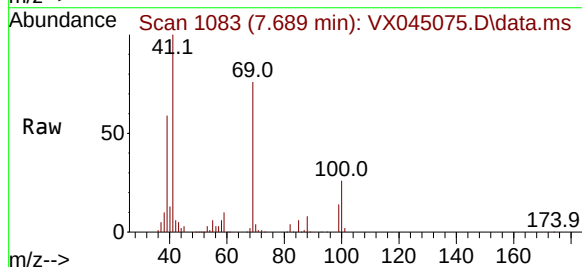
RT: 7.689 min Scan# 1083

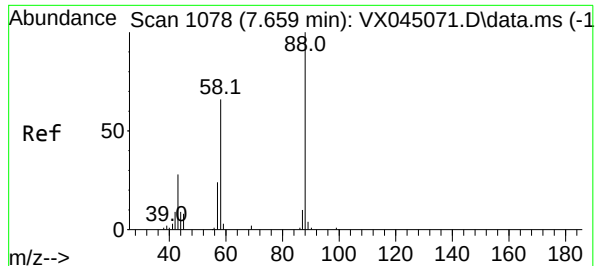
Delta R.T. -0.000 min

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

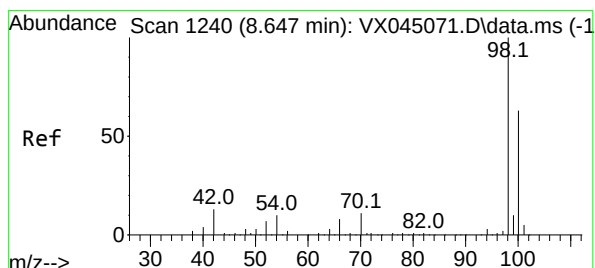
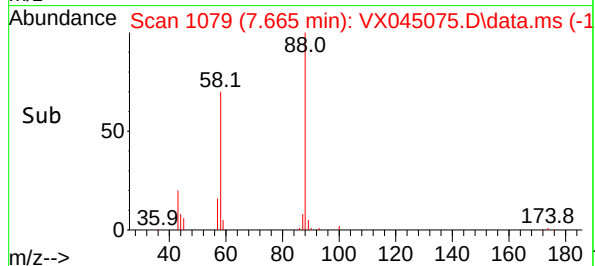
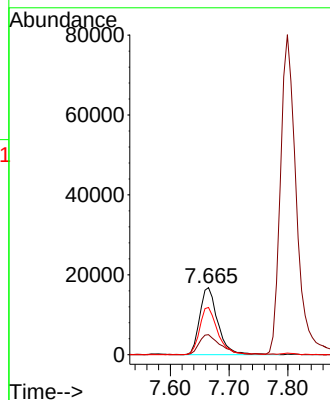
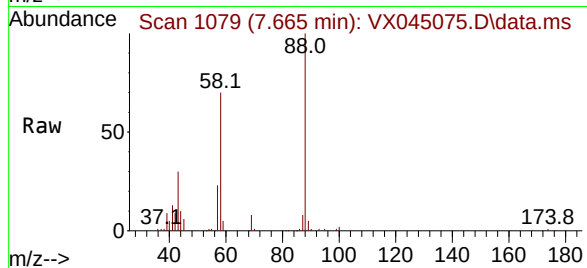
58 70.8 55.8 83.8

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

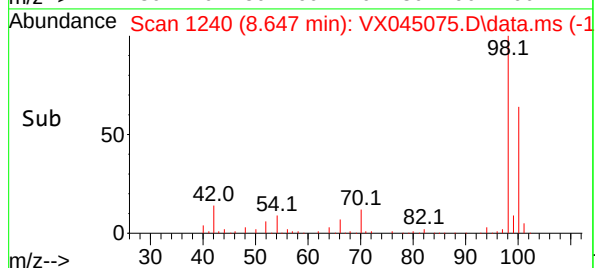
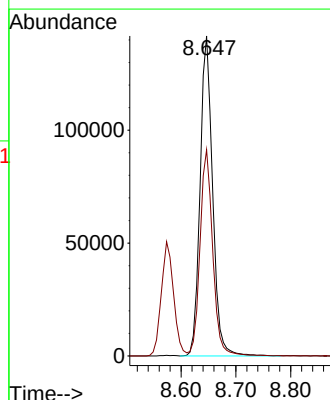
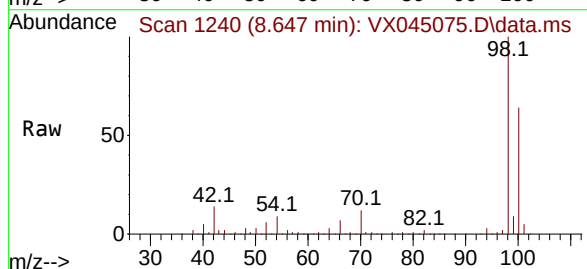
Acq: 28 Feb 2025 04:33

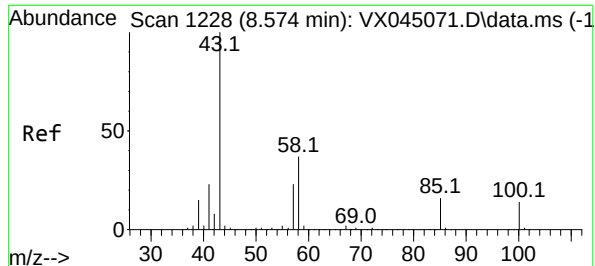
Tgt Ion: 98 Resp: 225823

Ion Ratio Lower Upper

98 100

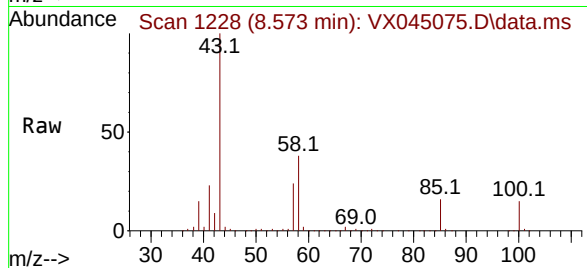
100 65.6 52.0 78.0





#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

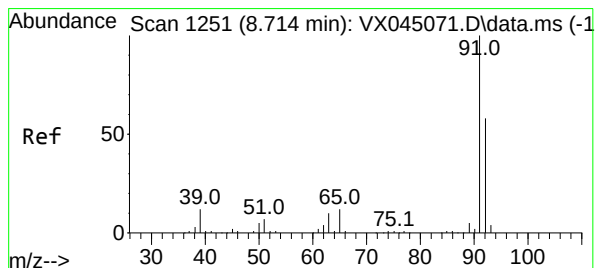
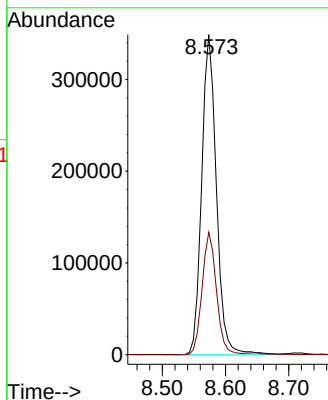
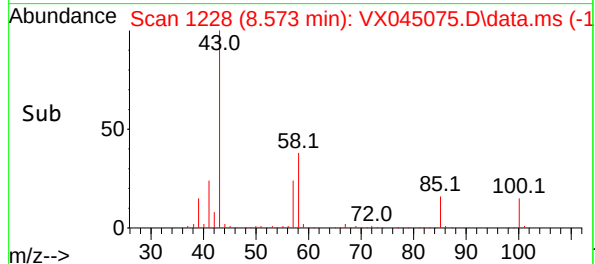
Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825



Tgt Ion: 43 Resp: 56419
Ion Ratio Lower Upper
43 100
58 37.3 29.2 43.8

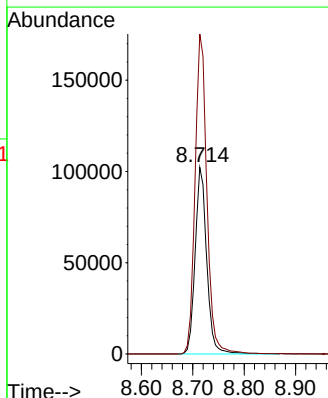
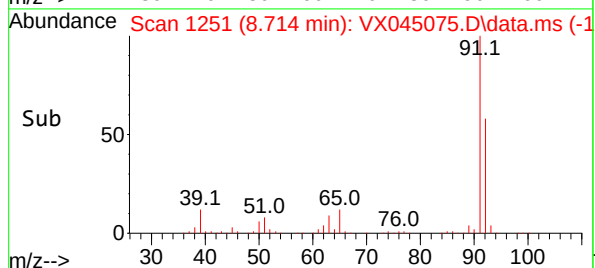
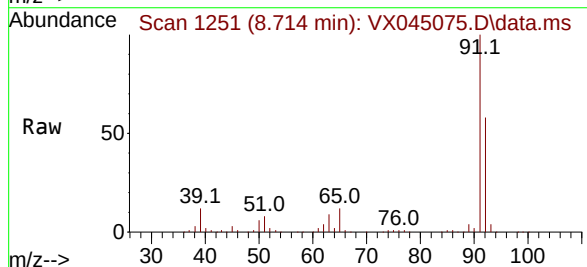
Manual Integrations
APPROVED

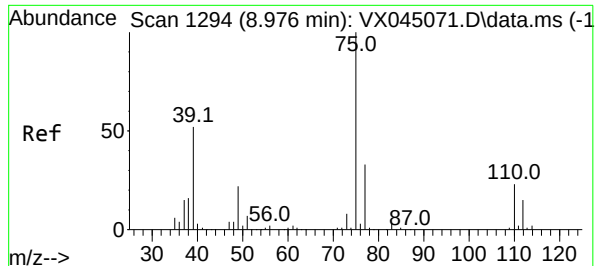
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

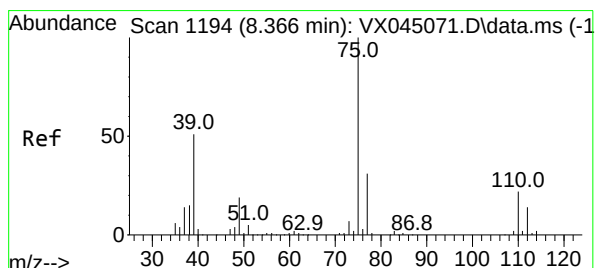
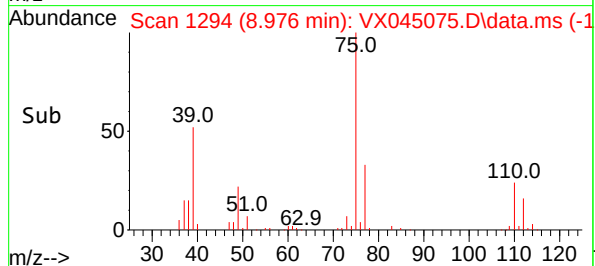
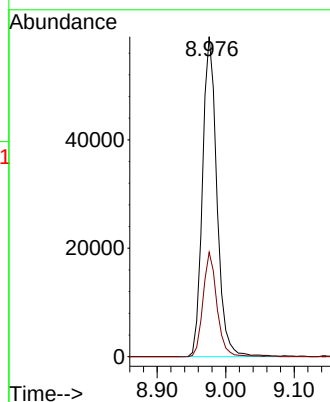
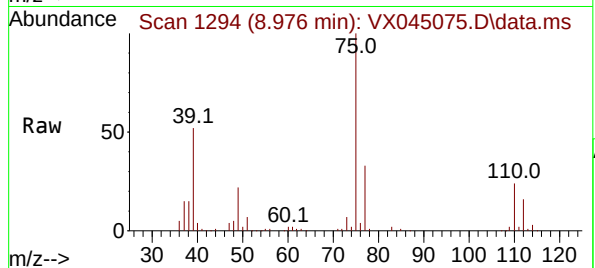
77 32.7 26.5 39.7

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

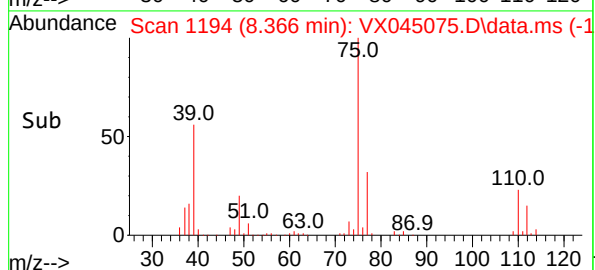
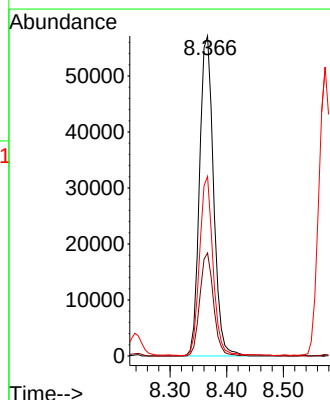
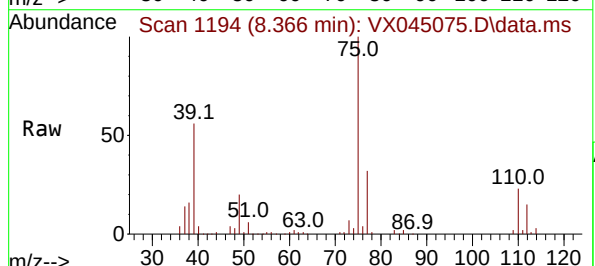
Tgt Ion: 75 Resp: 98146

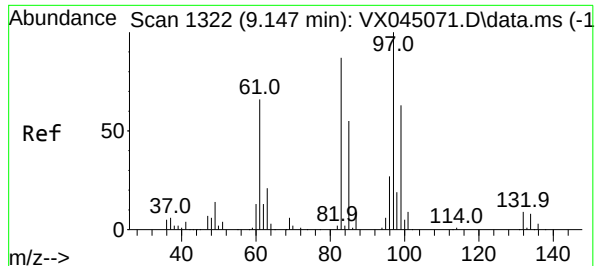
Ion Ratio Lower Upper

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

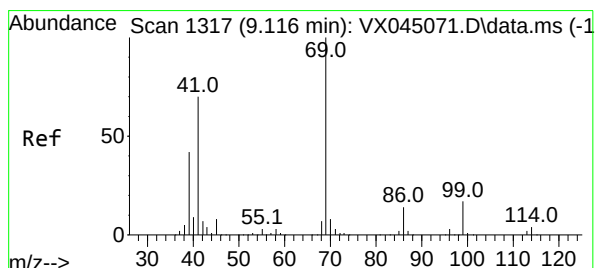
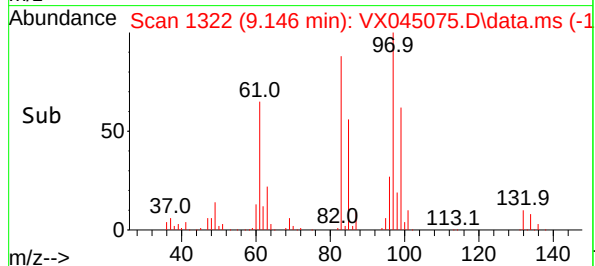
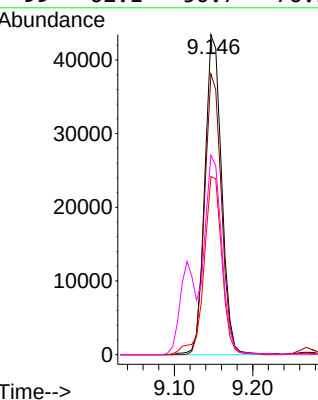
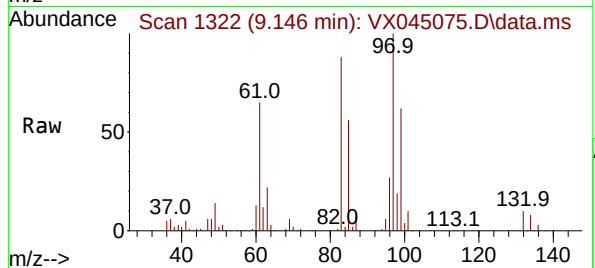
99 62.1 50.7 76.1

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

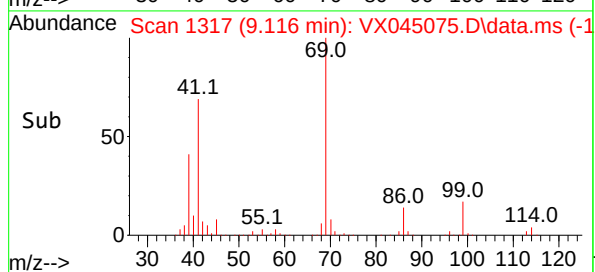
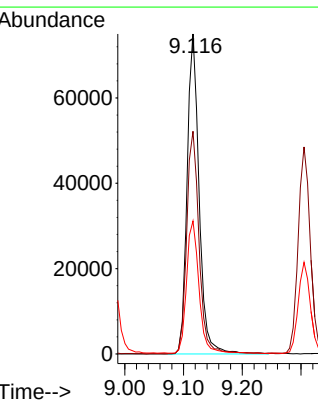
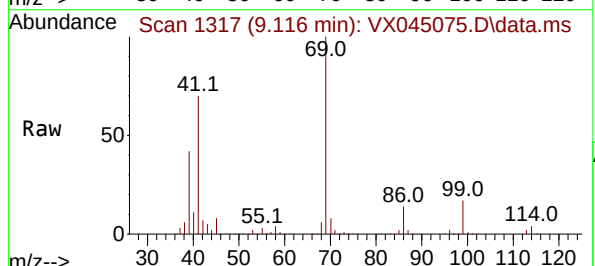
Tgt Ion: 69 Resp: 106405

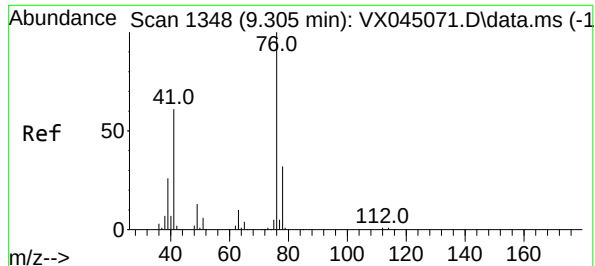
Ion Ratio Lower Upper

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

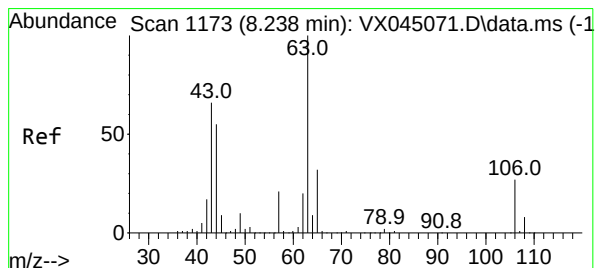
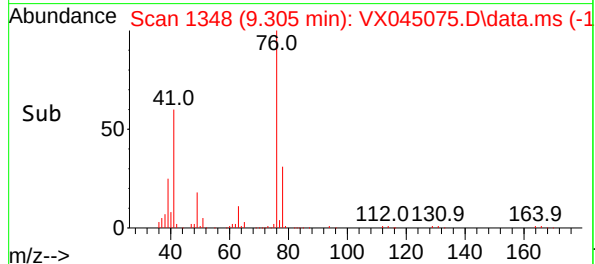
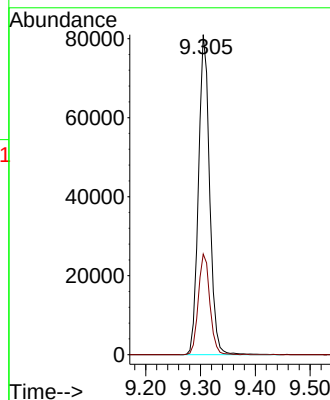
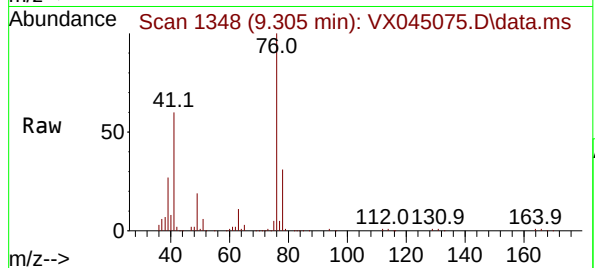
78 32.5 25.5 38.3

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

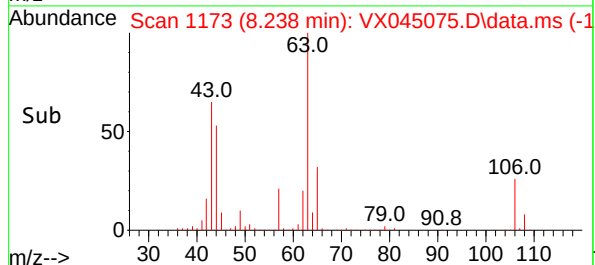
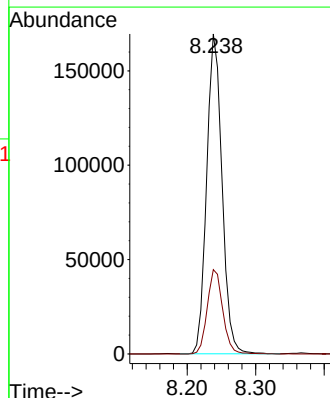
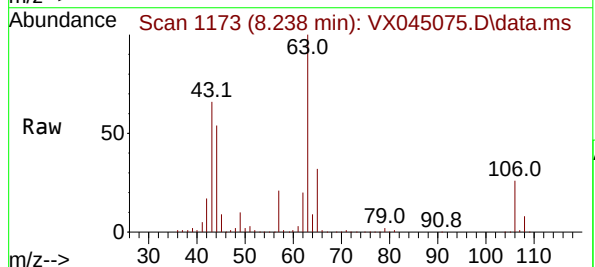
Acq: 28 Feb 2025 04:33

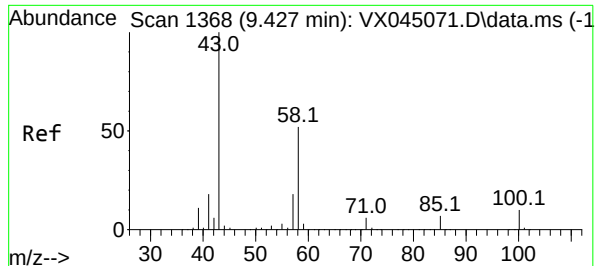
Tgt Ion: 63 Resp: 264335

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

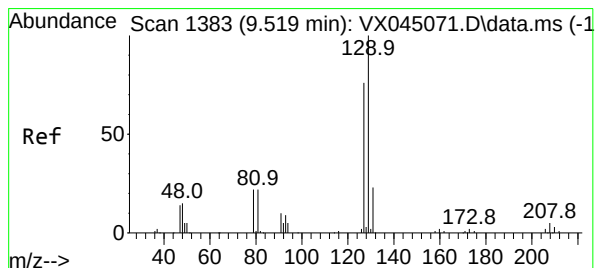
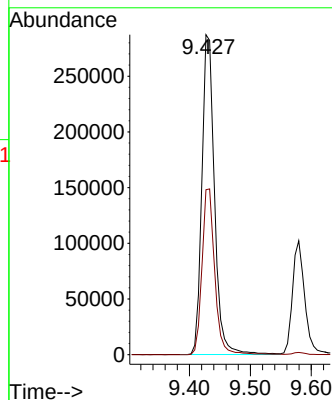
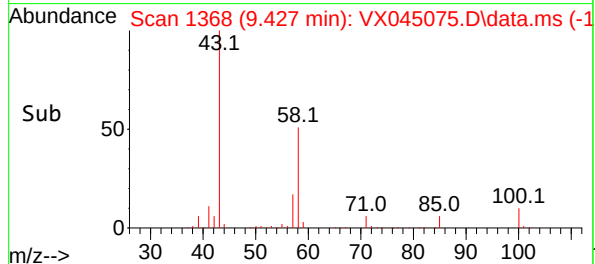
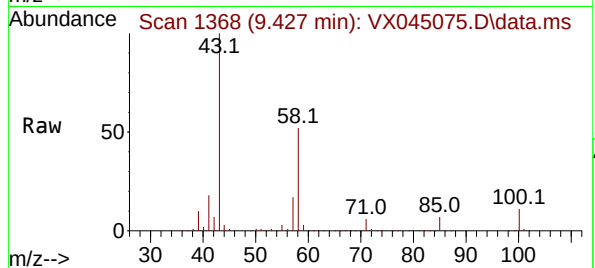
58 52.2 25.9 77.6

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

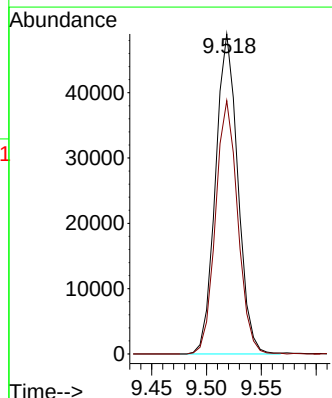
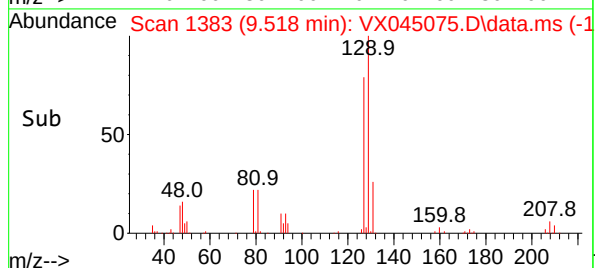
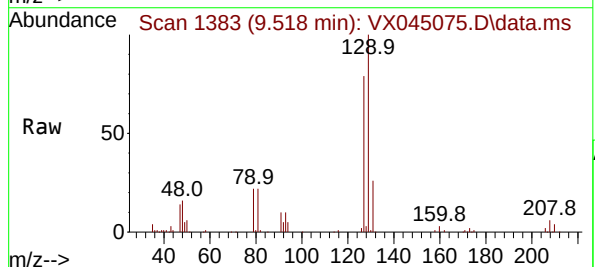
Acq: 28 Feb 2025 04:33

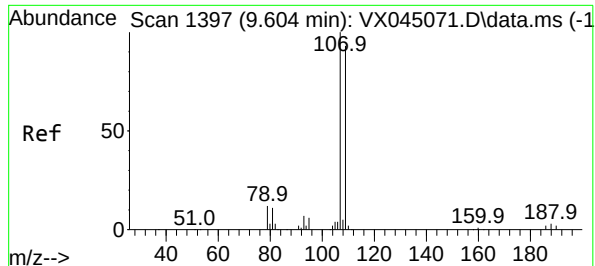
Tgt Ion:129 Resp: 69492

Ion Ratio Lower Upper

129 100

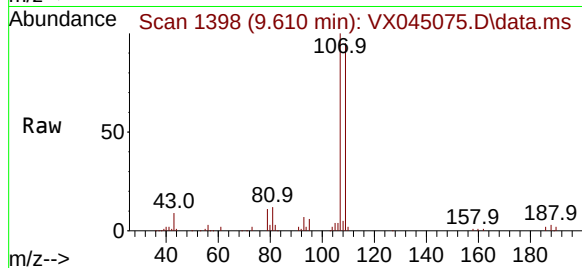
127 78.6 38.5 115.5





#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

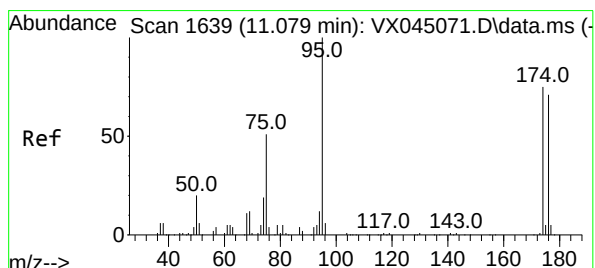
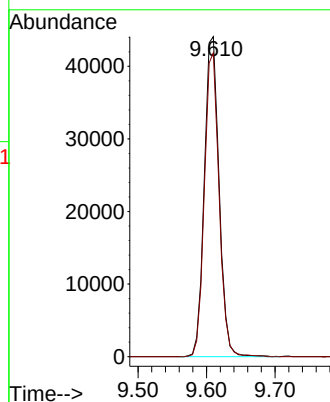
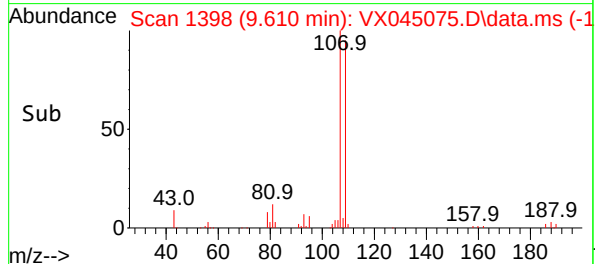
Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825



Tgt Ion:107 Resp: 6650
Ion Ratio Lower Upper
107 100
109 93.8 76.1 114.1

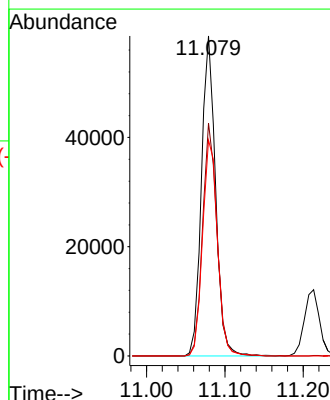
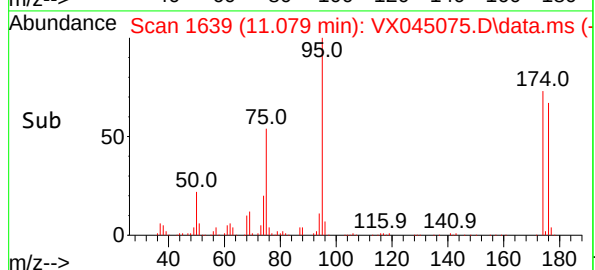
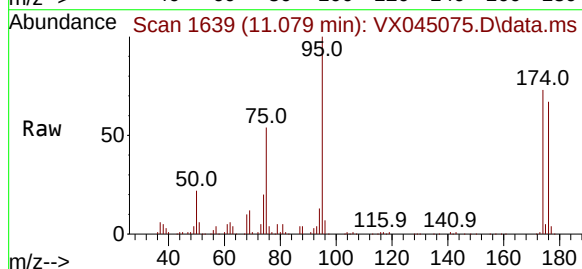
Manual Integrations
APPROVED

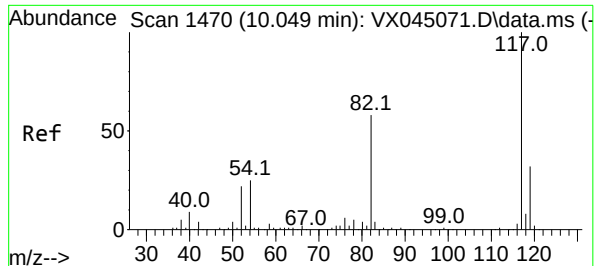
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

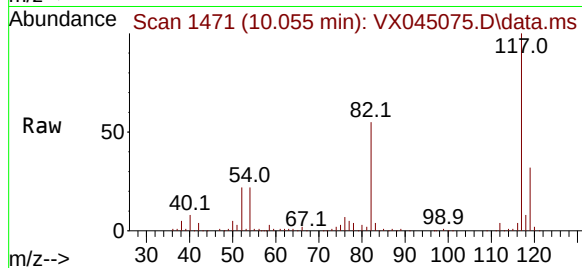
Tgt Ion: 95 Resp: 73162
Ion Ratio Lower Upper
95 100
174 74.0 0.0 148.2
176 71.3 0.0 141.4





#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

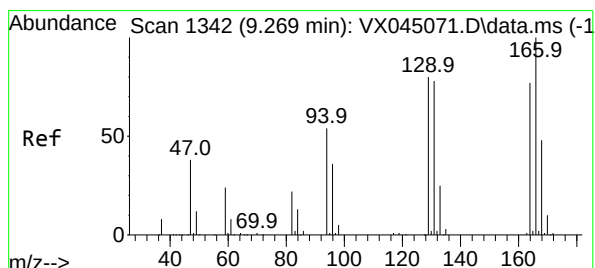
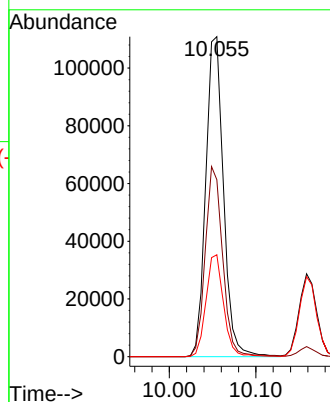
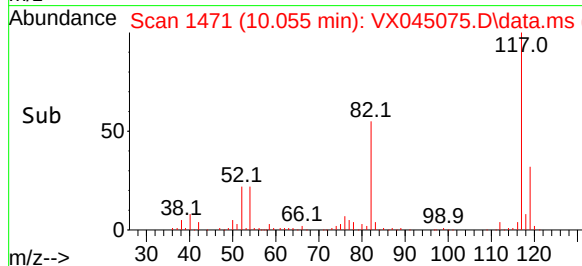
Instrument :
MSVOA_X
ClientSampleId :
ICVX022825



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

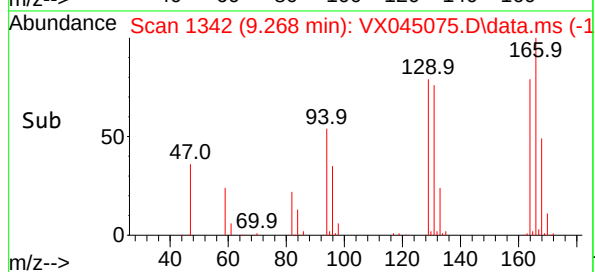
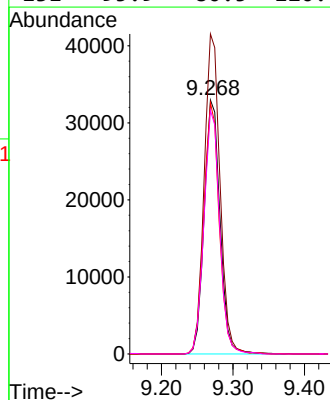
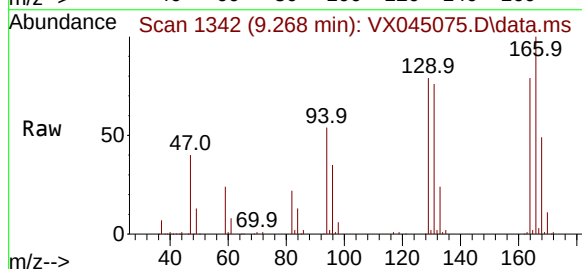
Manual Integrations
APPROVED

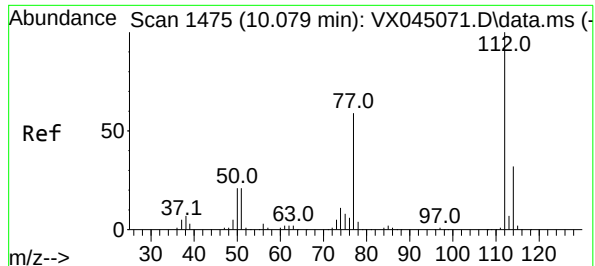
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





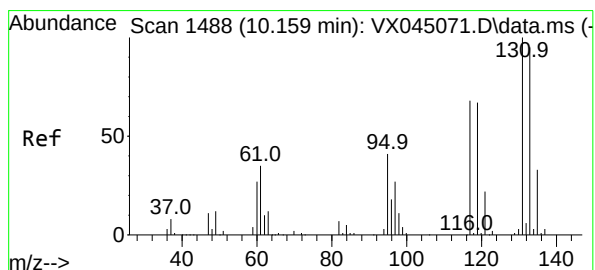
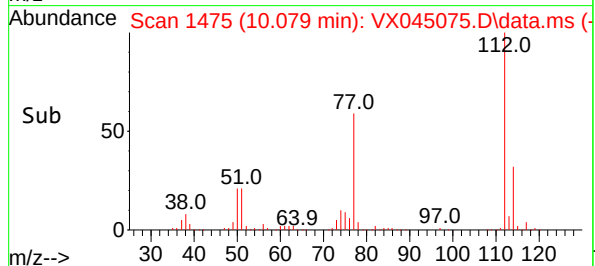
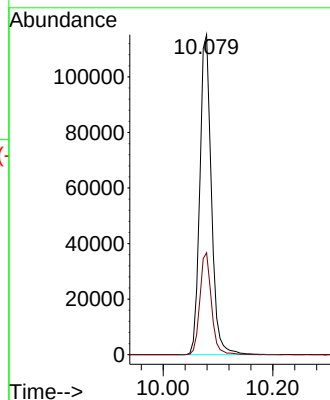
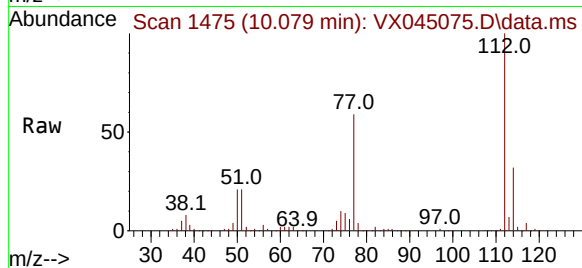
#65
Chlorobenzene
Concen: 50.580 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVX022825

Tgt Ion:112 Resp: 16888
Ion Ratio Lower Upper
112 100
114 31.9 26.0 39.0

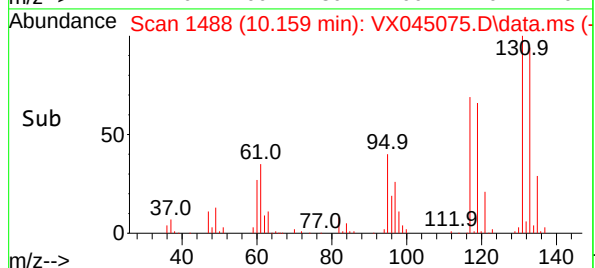
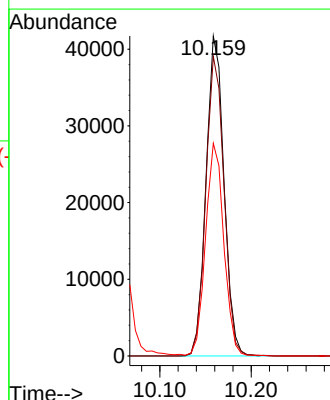
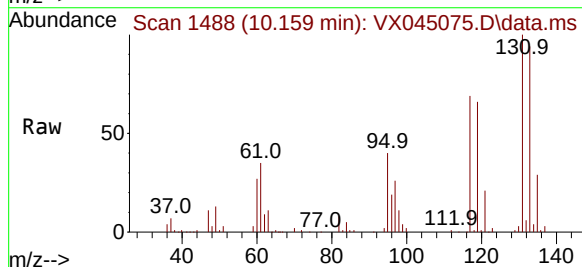
Manual Integrations
APPROVED

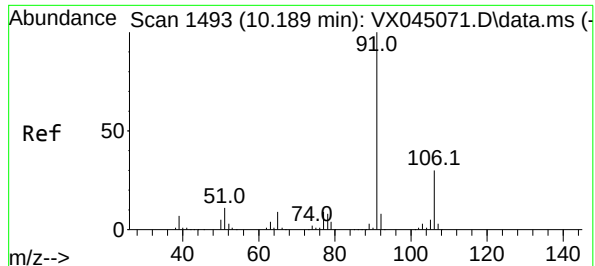
Reviewed By :John Carbone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

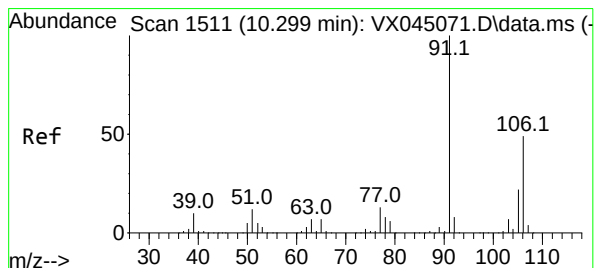
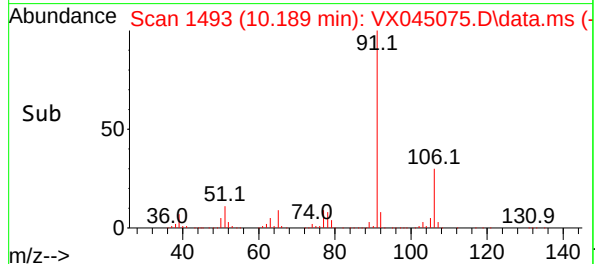
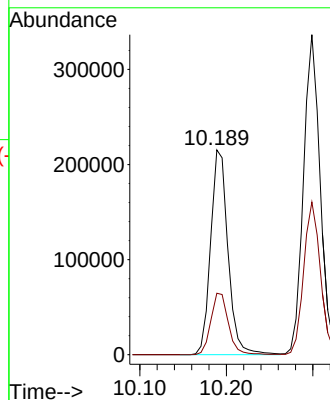
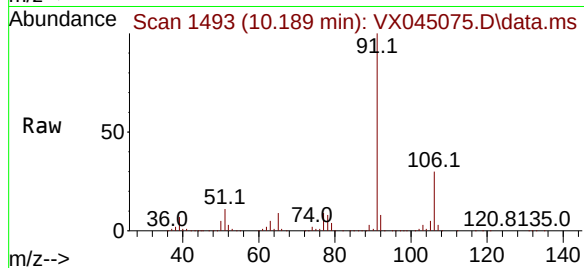
106 30.0 23.9 35.9

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

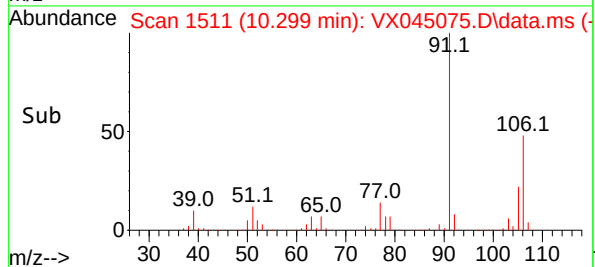
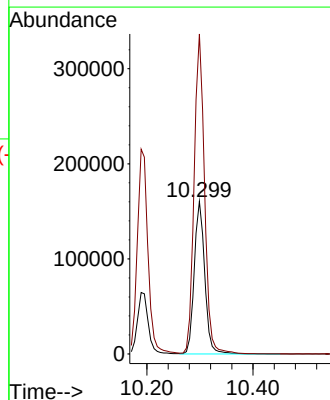
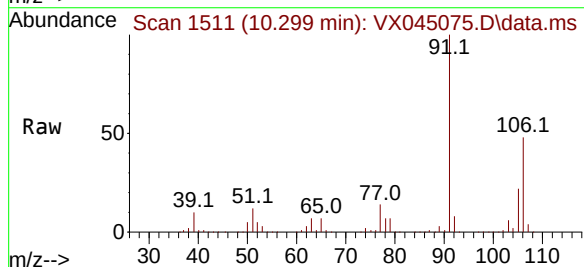
Acq: 28 Feb 2025 04:33

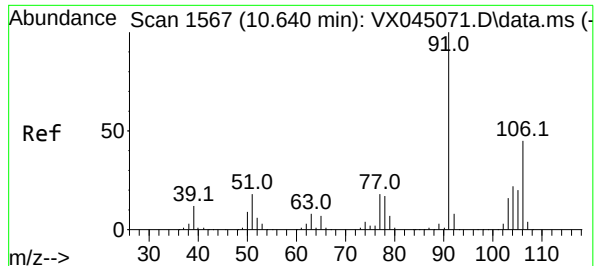
Tgt Ion:106 Resp: 220335

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

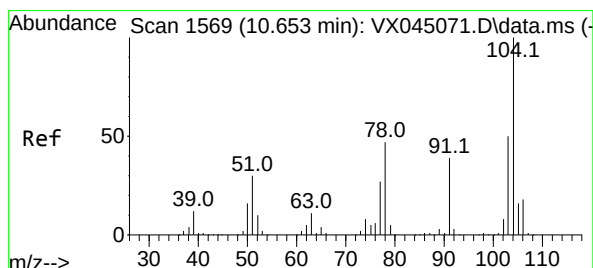
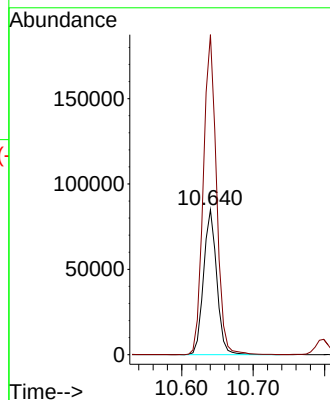
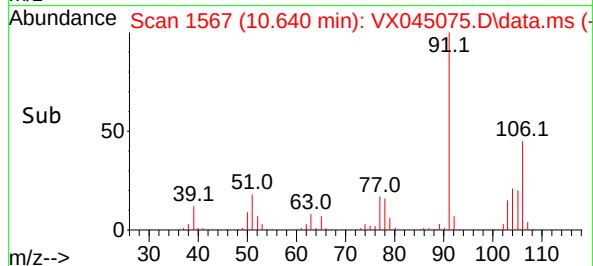
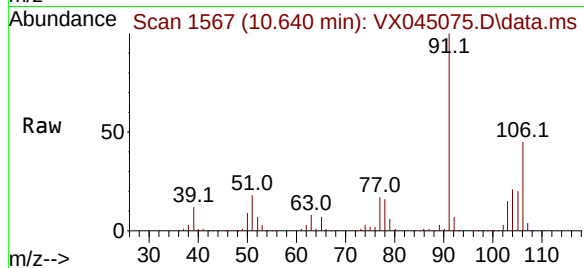
91 220.5 109.9 329.6

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

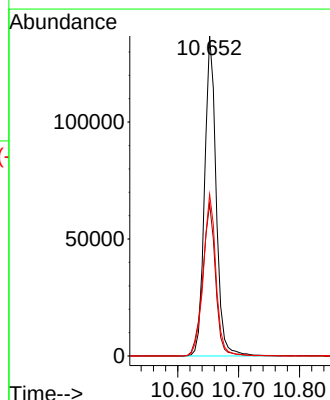
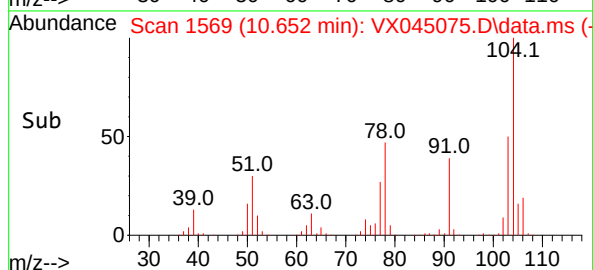
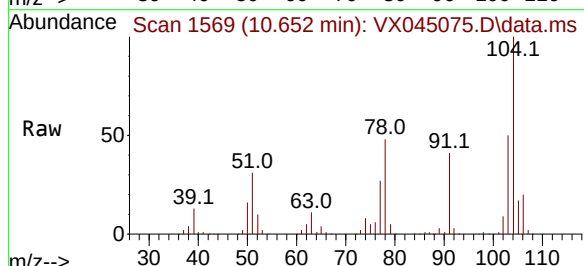
Tgt Ion:104 Resp: 181349

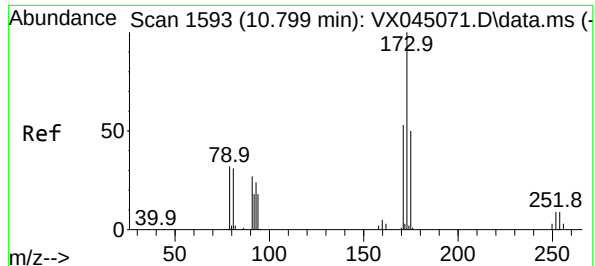
Ion Ratio Lower Upper

104 100

78 52.8 42.2 63.4

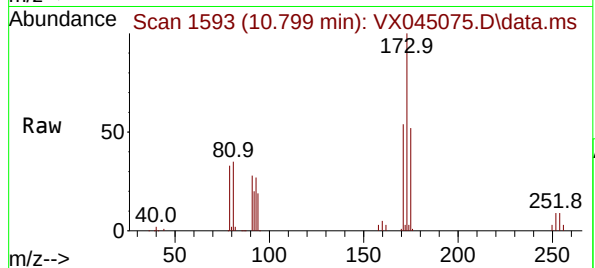
103 55.1 43.8 65.8





#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

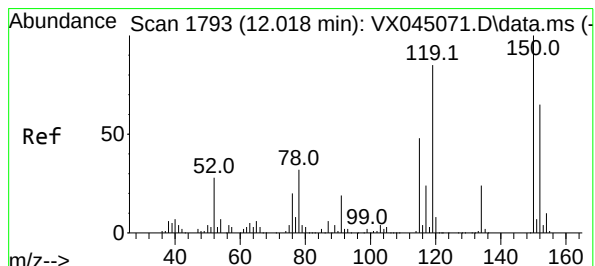
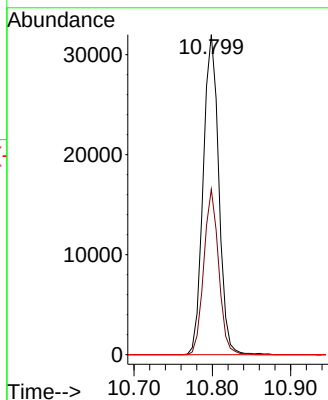
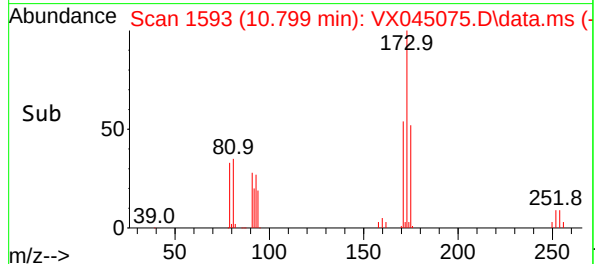
Instrument :
MSVOA_X
ClientSampleId :
ICVX022825



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

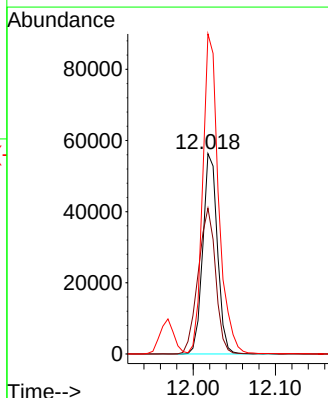
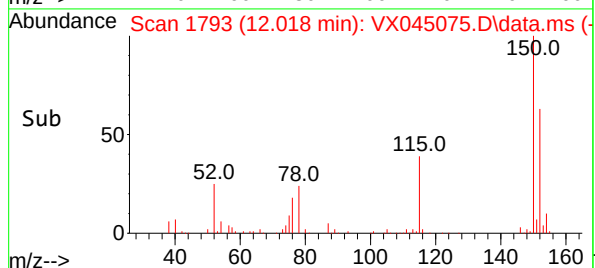
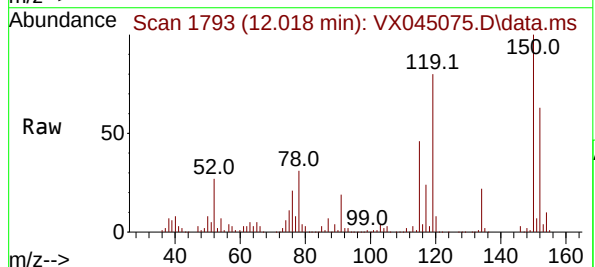
Manual Integrations
APPROVED

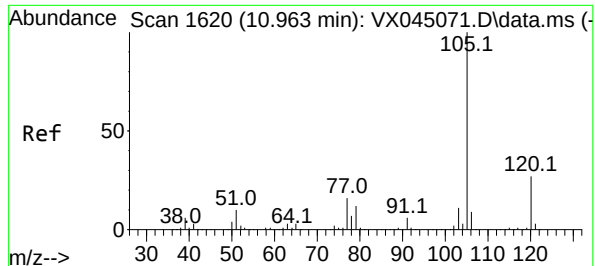
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

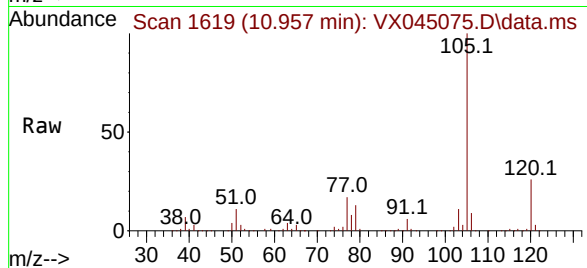
Tgt Ion:152 Resp: 69357
Ion Ratio Lower Upper
152 100
115 86.9 44.2 132.6
150 174.3 0.0 349.0





#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

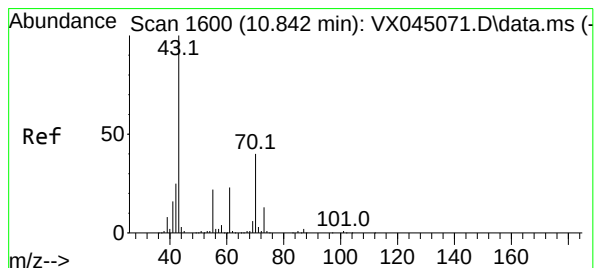
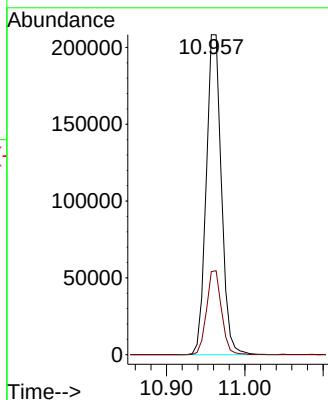
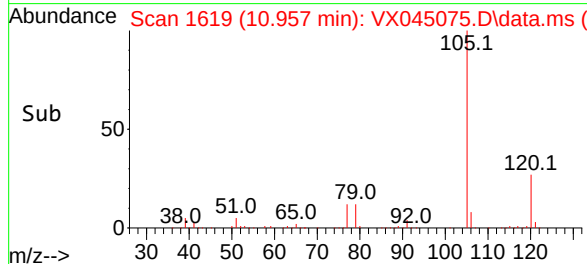
Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825



Tgt Ion:105 Resp: 279278
Ion Ratio Lower Upper
105 100
120 25.9 13.2 39.5

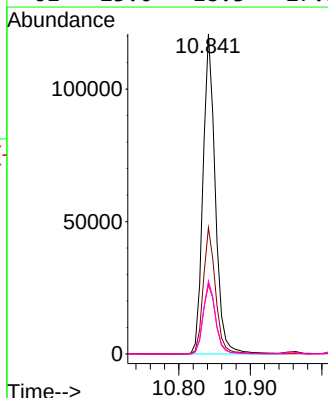
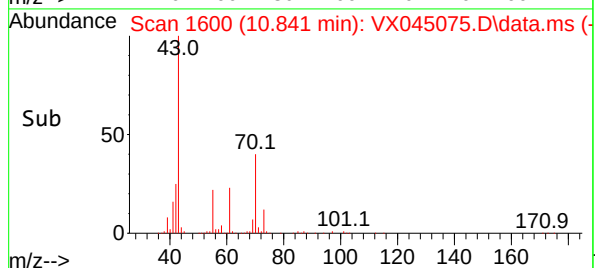
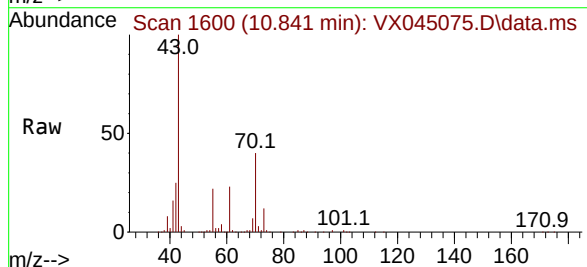
Manual Integrations
APPROVED

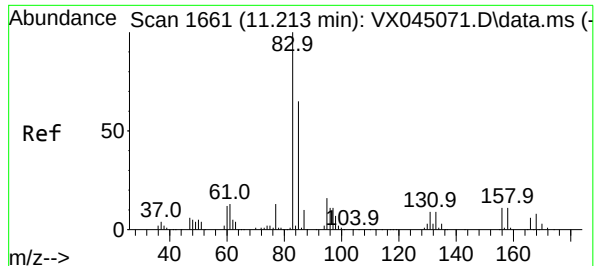
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

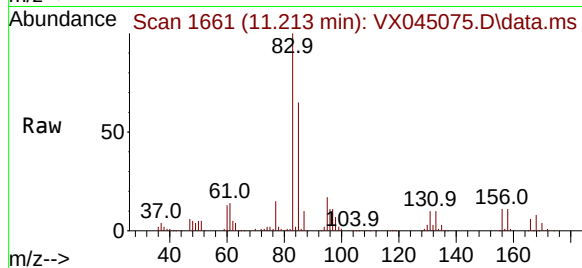
Tgt Ion: 43 Resp: 144412
Ion Ratio Lower Upper
43 100
70 39.5 31.8 47.6
55 22.3 18.3 27.5
61 23.0 18.3 27.5





#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

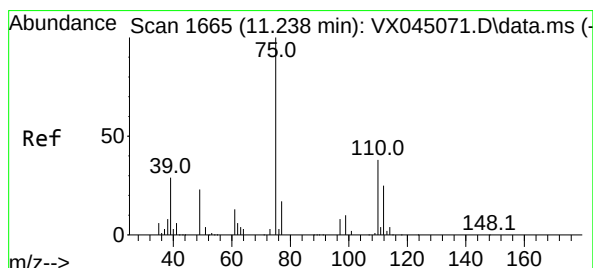
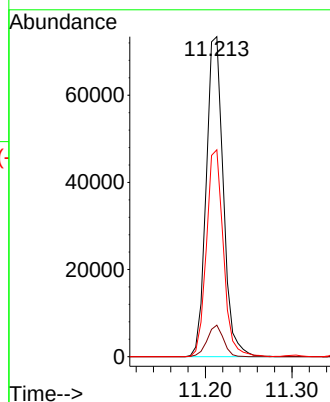
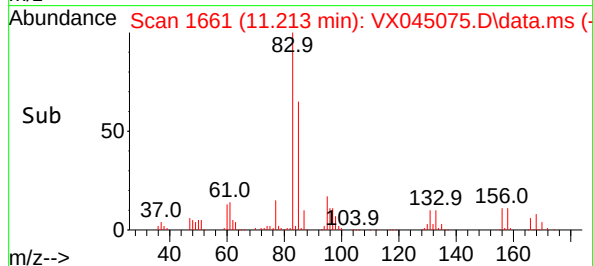
Instrument :
MSVOA_X
ClientSampleId :
ICVX022825



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

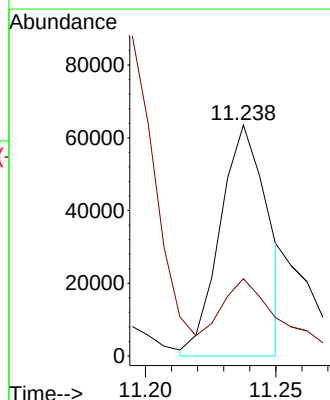
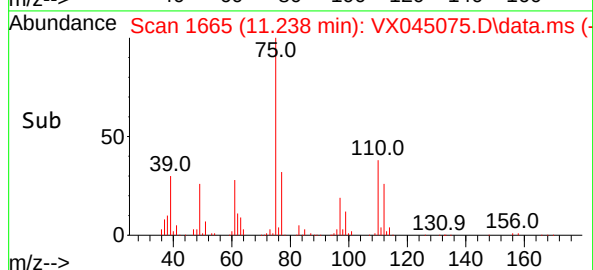
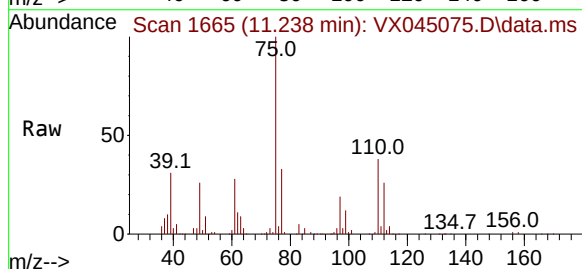
Manual Integrations
APPROVED

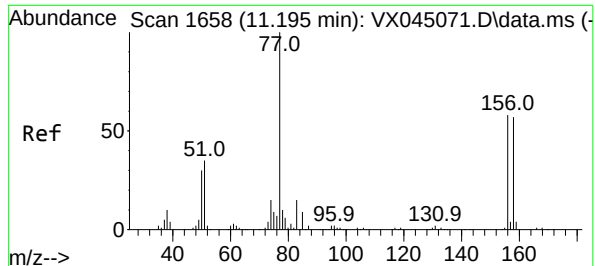
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

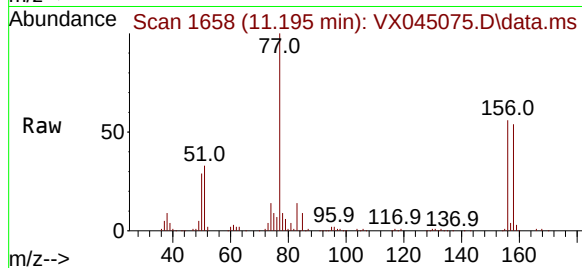
Tgt Ion: 75 Resp: 80618
Ion Ratio Lower Upper
75 100
77 42.5 20.7 62.1





#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

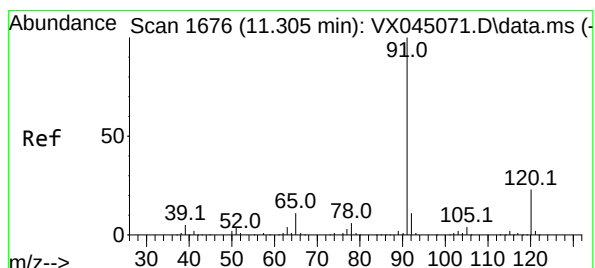
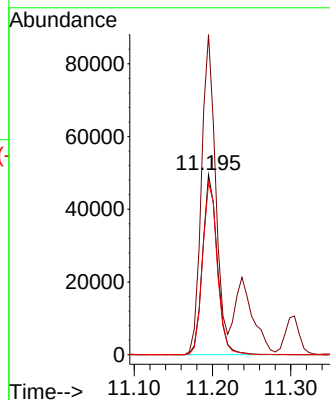
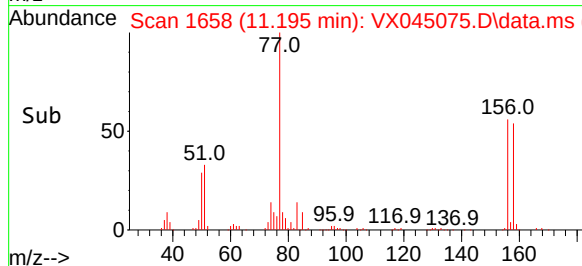
Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825



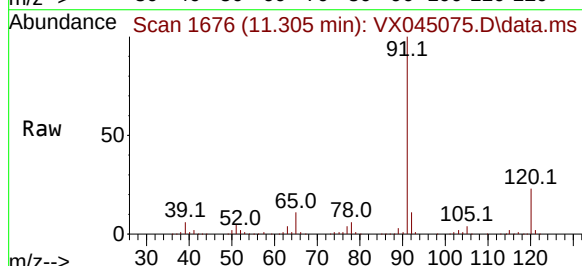
Tgt Ion:156 Resp: 64324
Ion Ratio Lower Upper
156 100
77 172.1 85.8 257.4
158 96.5 48.4 145.2

Manual Integrations
APPROVED

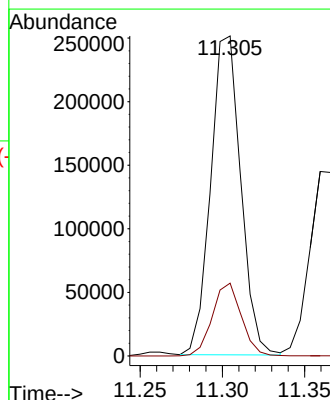
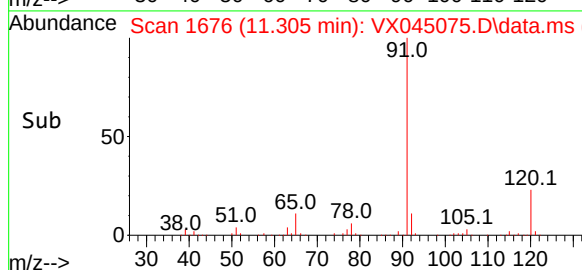
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

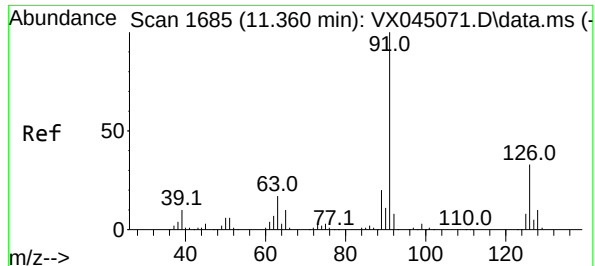


#78
n-propylbenzene
Concen: 52.203 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33



Tgt Ion: 91 Resp: 319235
Ion Ratio Lower Upper
91 100
120 22.2 11.2 33.6





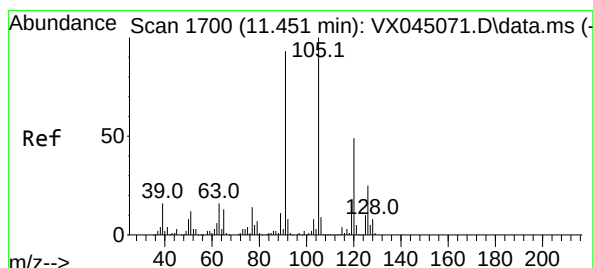
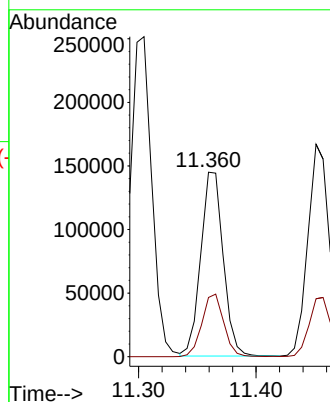
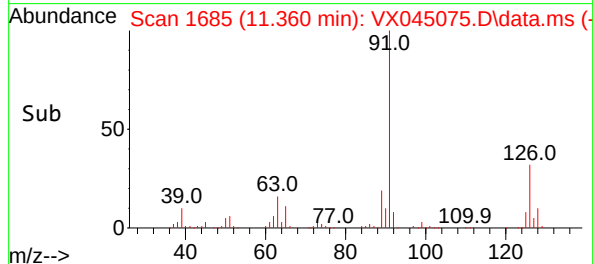
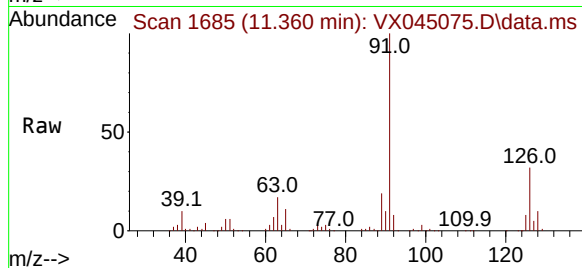
#79
2-Chlorotoluene
Concen: 49.338 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 91 Resp: 192150
Ion Ratio Lower Upper
91 100
126 33.1 16.4 49.4

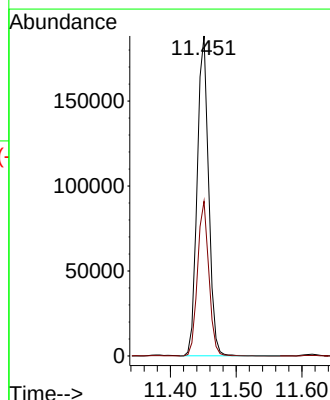
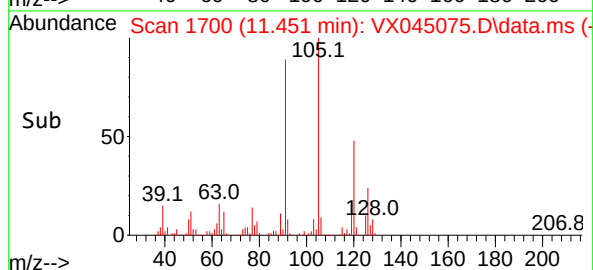
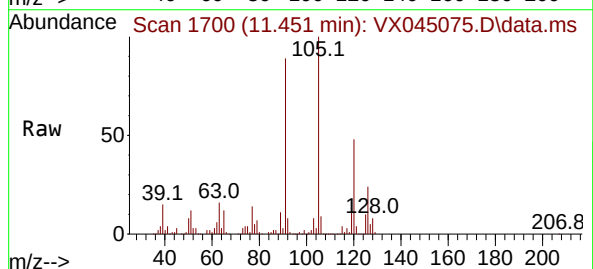
Manual Integrations
APPROVED

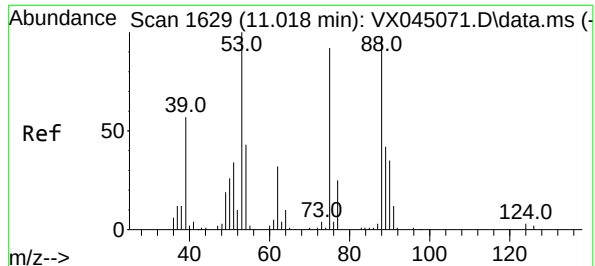
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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





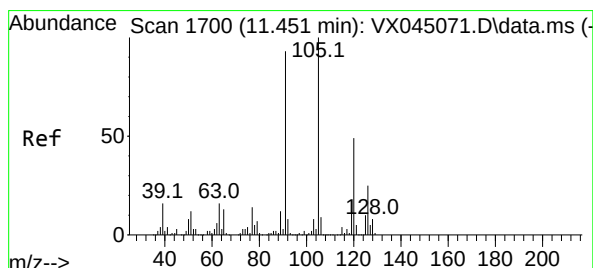
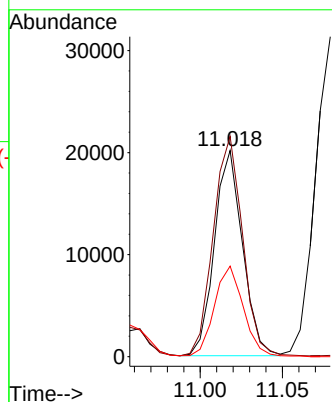
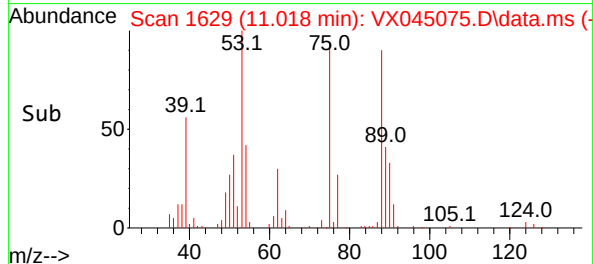
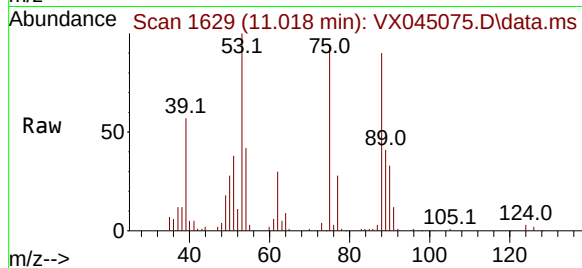
#81
trans-1,4-Dichloro-2-butene
Concen: 50.757 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVX022825

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

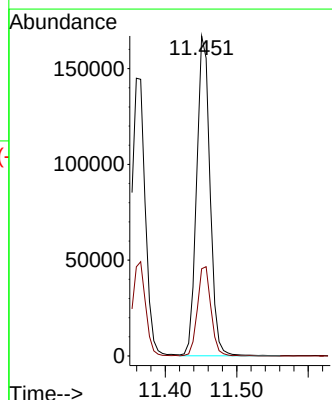
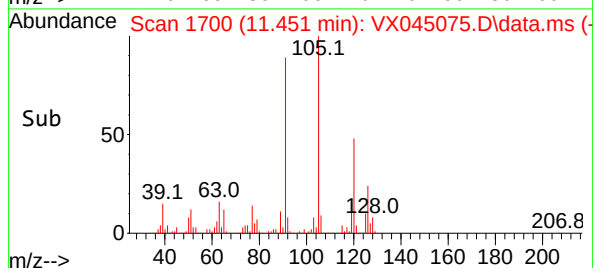
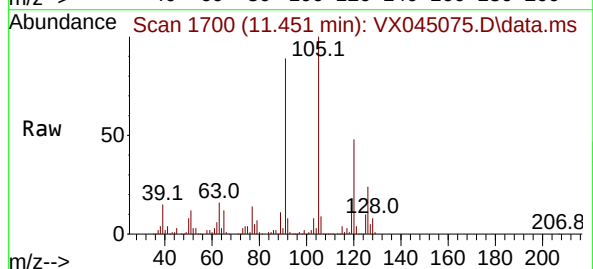
Manual Integrations
APPROVED

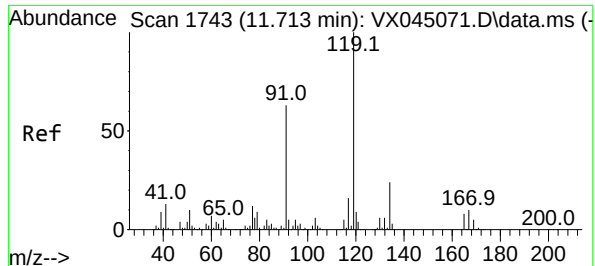
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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 :

ICVX022825

Tgt Ion:119 Resp: 22735

Ion Ratio Lower Upper

119 100

91 61.1 30.7 92.1

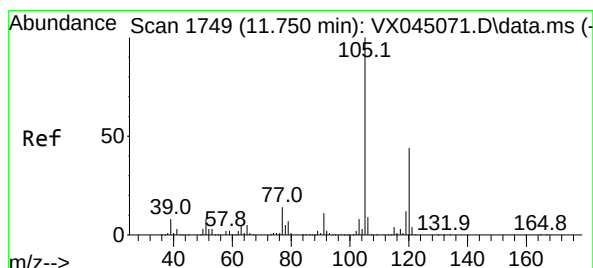
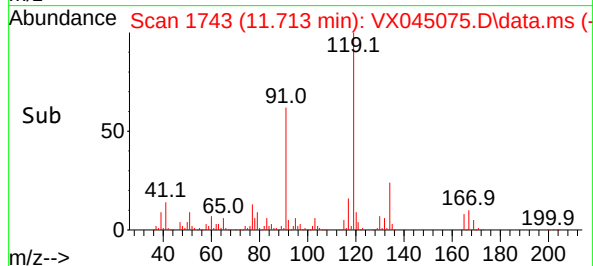
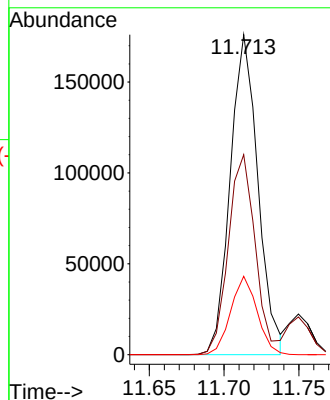
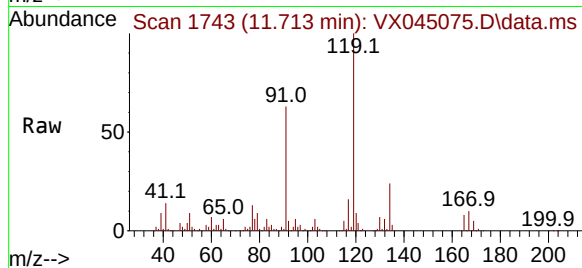
134 23.4 11.7 35.0

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

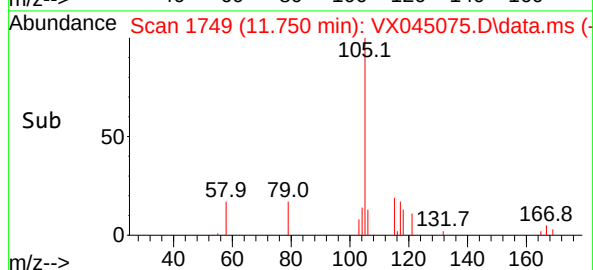
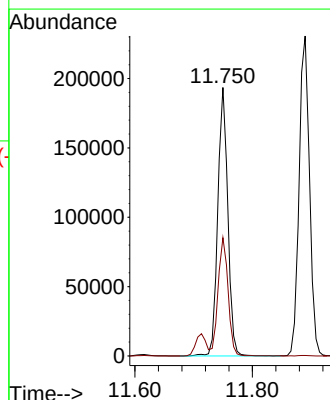
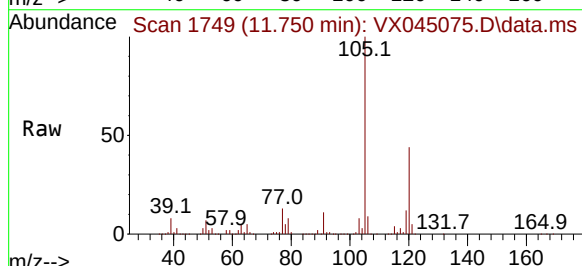
Acq: 28 Feb 2025 04:33

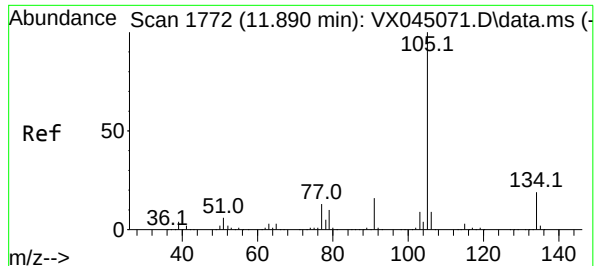
Tgt Ion:105 Resp: 228729

Ion Ratio Lower Upper

105 100

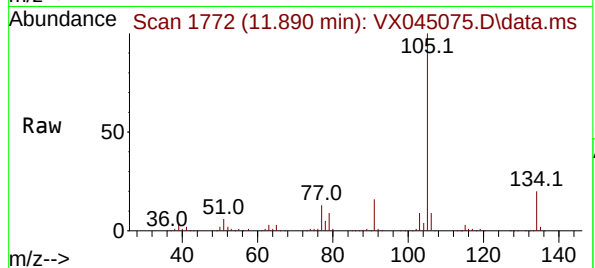
120 44.3 22.1 66.1





#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

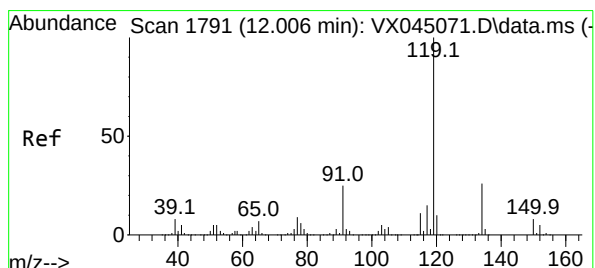
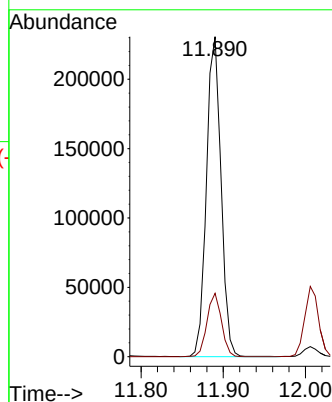
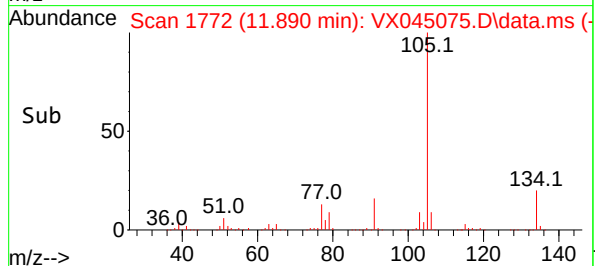
Instrument :
MSVOA_X
ClientSampleId :
ICVX022825



Tgt Ion:105 Resp: 28393
Ion Ratio Lower Upper
105 100
134 19.6 9.8 29.4

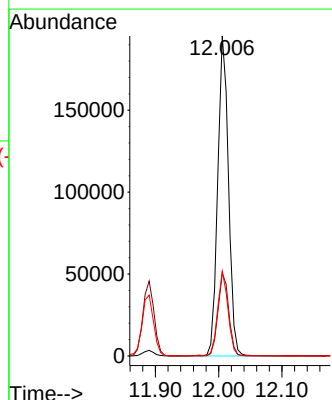
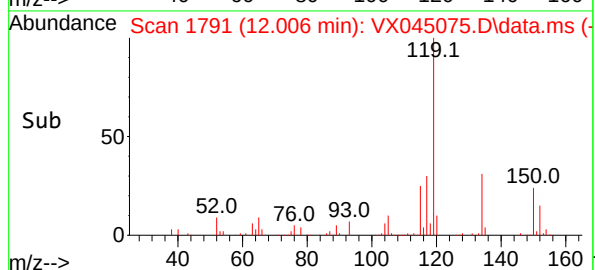
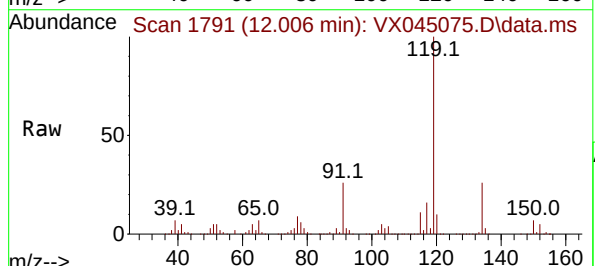
Manual Integrations
APPROVED

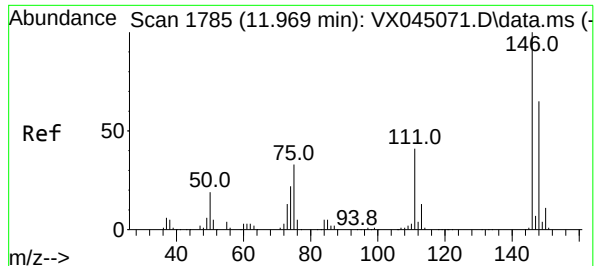
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

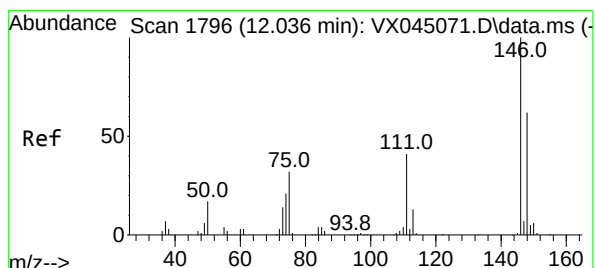
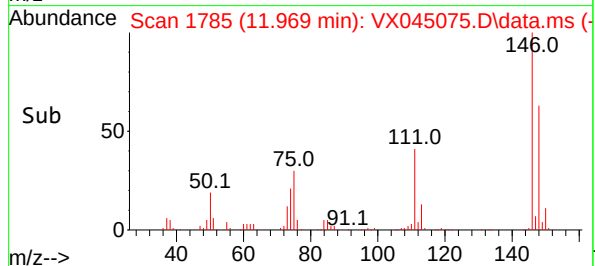
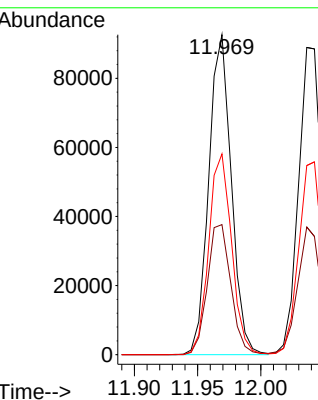
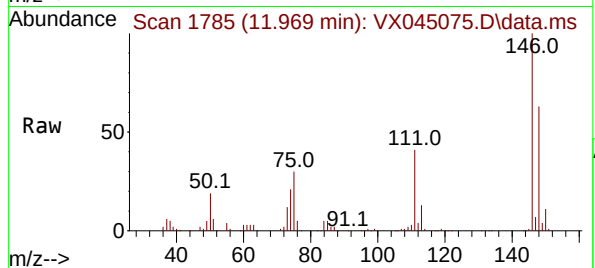
148 63.6 31.9 95.7

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

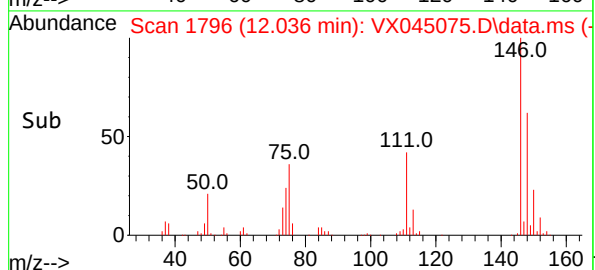
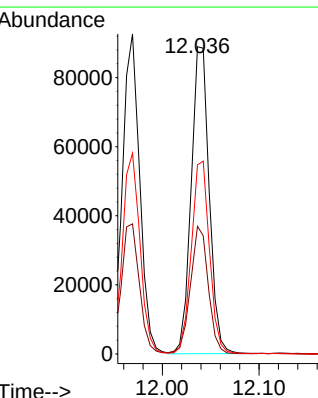
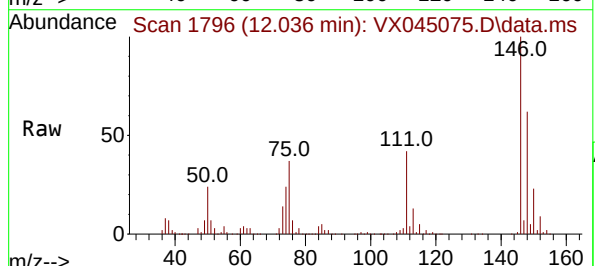
Tgt Ion:146 Resp: 115486

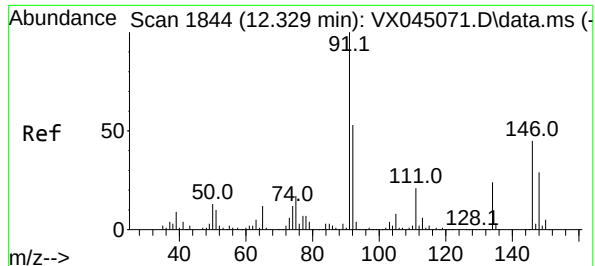
Ion Ratio Lower Upper

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

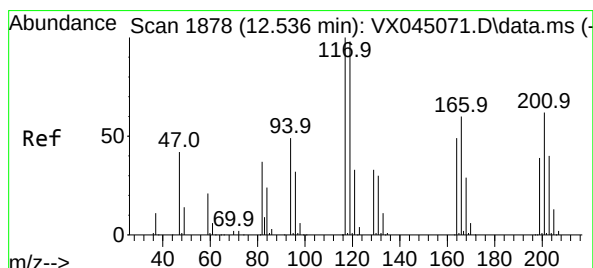
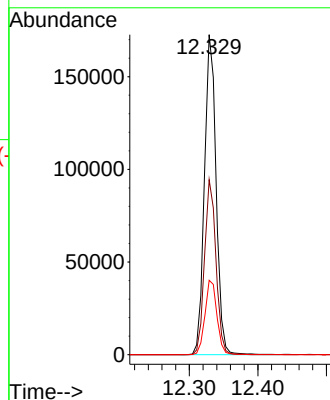
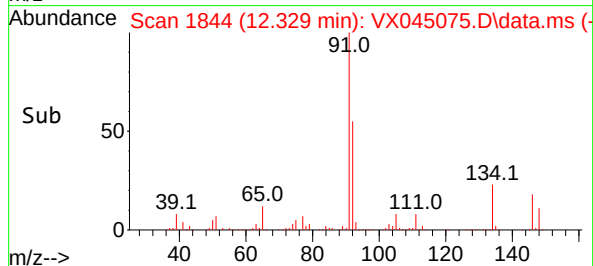
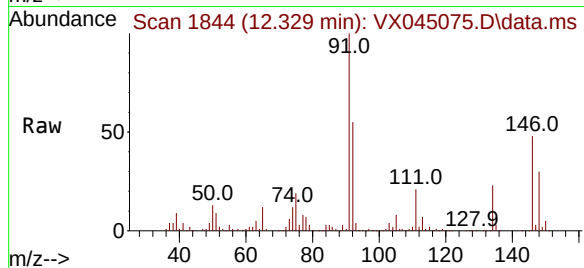
134 23.9 12.2 36.6

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

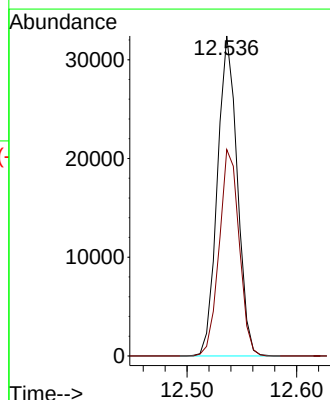
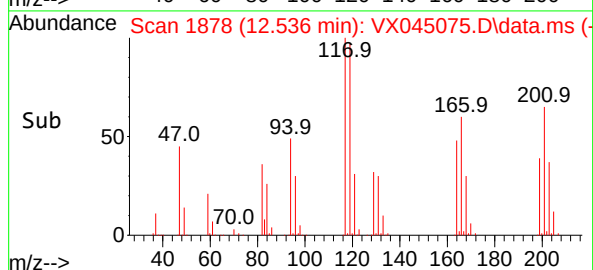
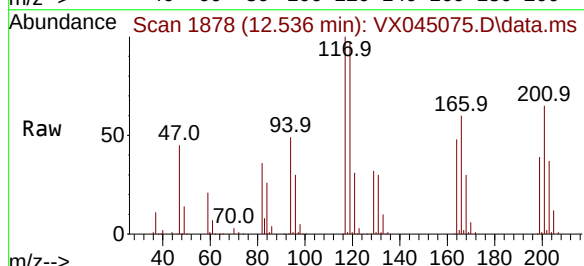
Acq: 28 Feb 2025 04:33

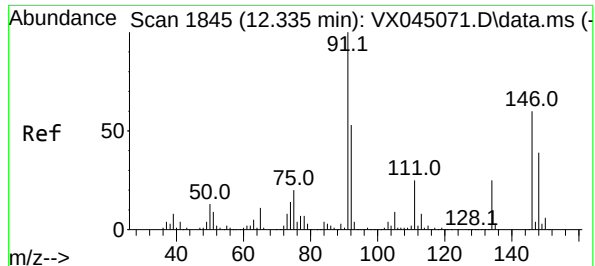
Tgt Ion:117 Resp: 40844

Ion Ratio Lower Upper

117 100

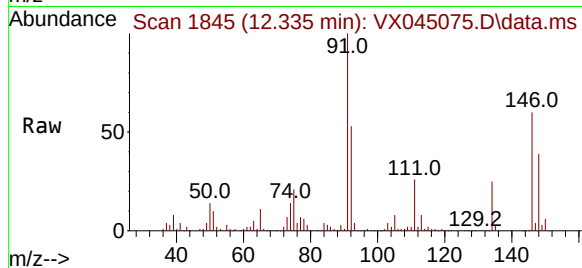
201 64.7 31.9 95.9





#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

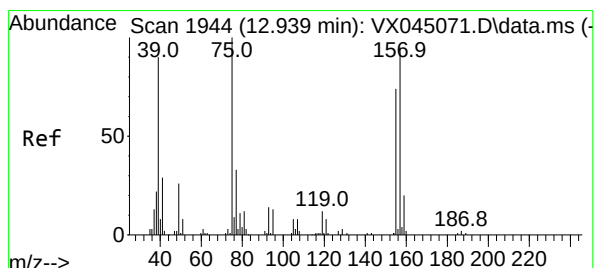
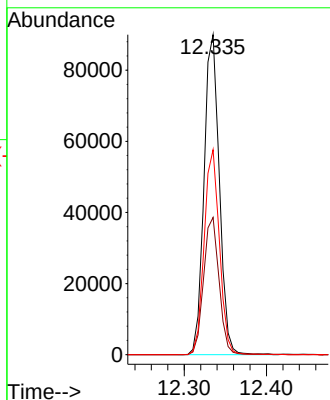
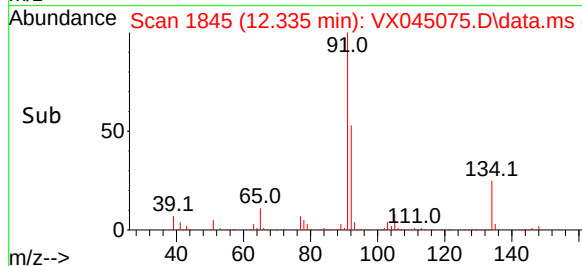
Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825



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

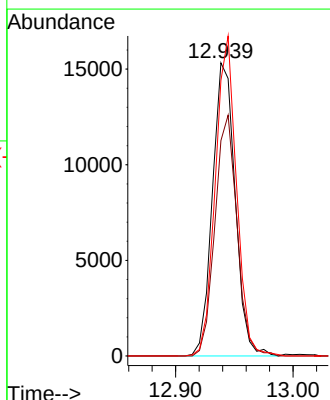
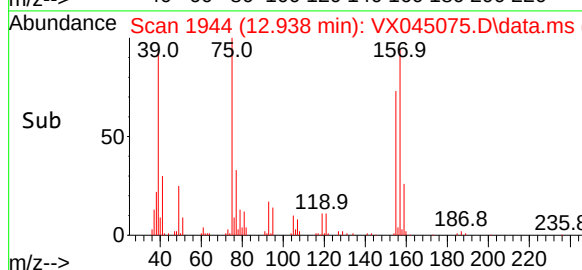
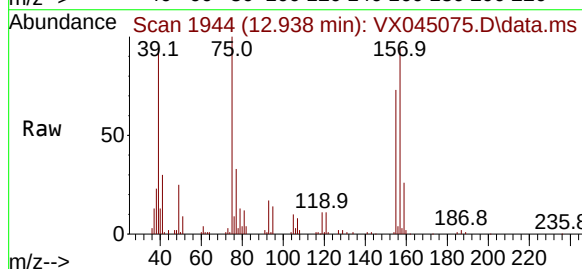
Manual Integrations
APPROVED

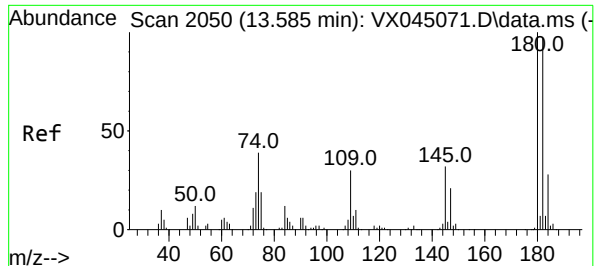
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

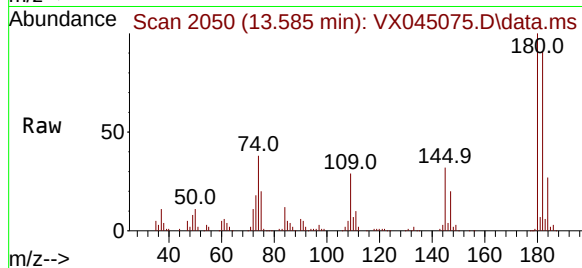
Tgt Ion: 75 Resp: 20589
Ion Ratio Lower Upper
75 100
155 79.8 39.6 118.7
157 101.7 51.1 153.4





#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

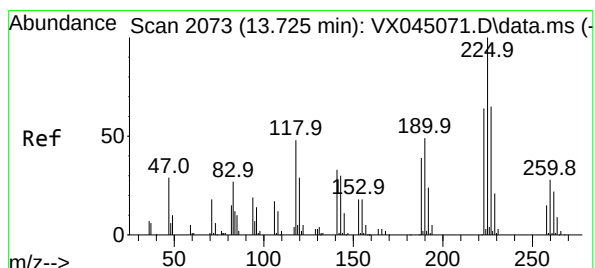
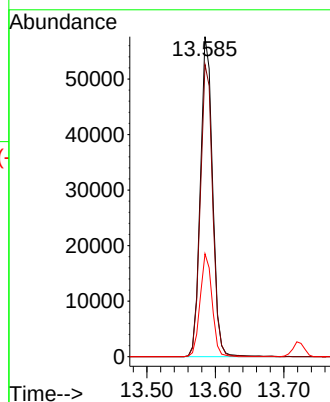
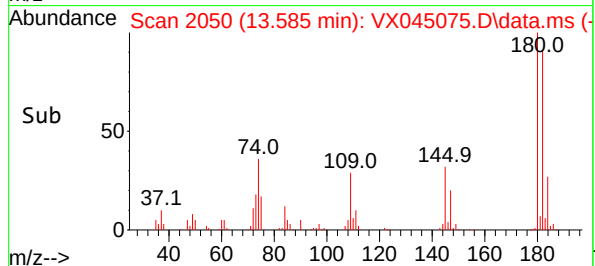
Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825



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

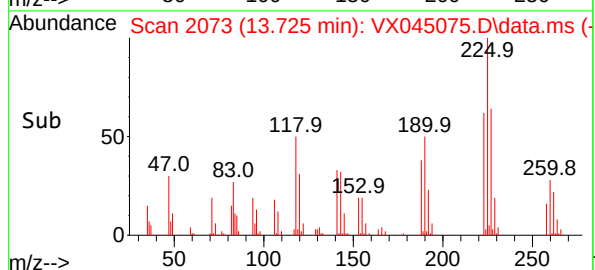
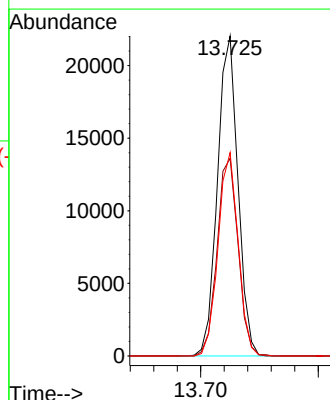
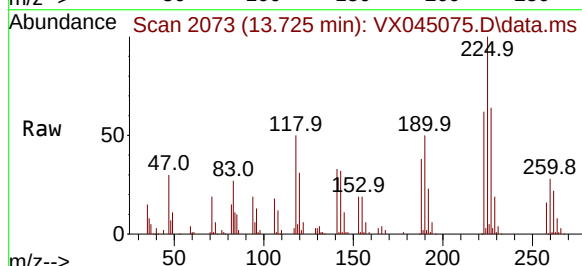
Manual Integrations
APPROVED

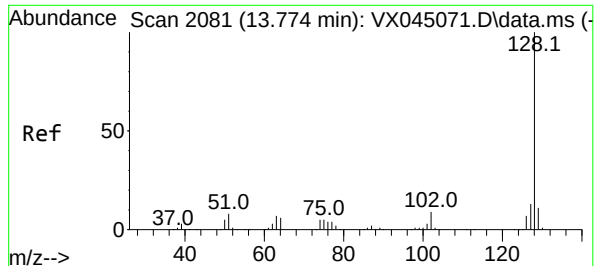
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#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

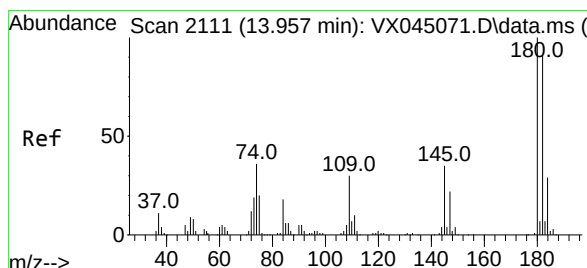
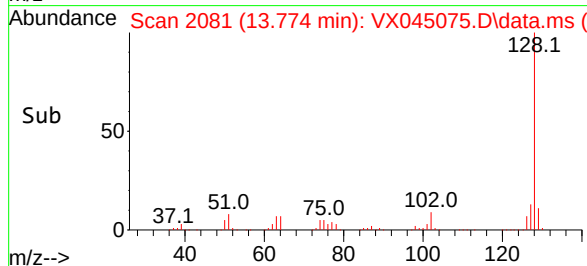
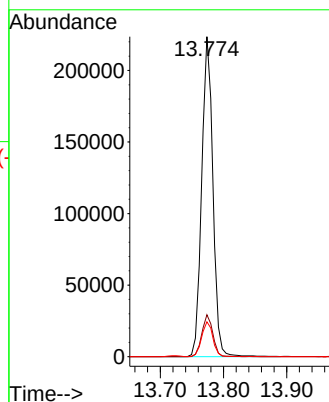
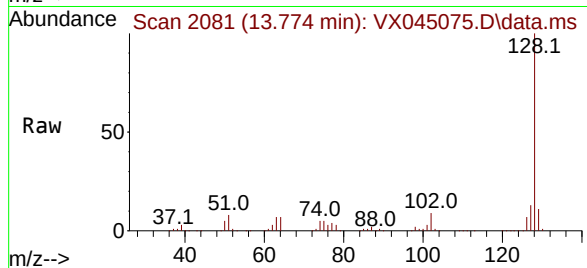
129 10.9 8.7 13.1

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

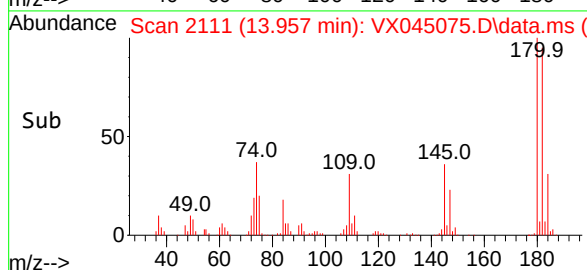
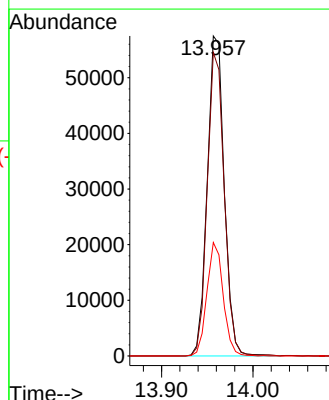
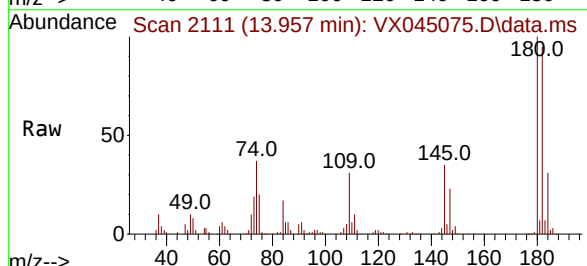
Tgt Ion:180 Resp: 74211

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\WX022825\
 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\WX022825\
 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-amyl 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: GENV01

Lab Code: CHEM Case No.: Q1576 SAS No.: Q1576 SDG No.: Q1576

Instrument ID: MSVOA_X Calibration Date/Time: 03/18/2025 10:02

Lab File ID: VX045312.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
Dichlorodifluoromethane	0.629	0.603		-4.13	20
Chloromethane	0.770	0.700	0.1	-9.09	20
Vinyl Chloride	0.764	0.630		-17.54	20
Bromomethane	0.300	0.274		-8.67	20
Chloroethane	0.352	0.317		-9.94	20
Trichlorofluoromethane	1.012	0.936		-7.51	20
1,1,2-Trichlorotrifluoroethane	0.581	0.621		6.89	20
1,1-Dichloroethene	0.614	0.582		-5.21	20
Acetone	0.369	0.341		-7.59	20
Carbon Disulfide	1.636	1.304		-20.29	20
Methyl tert-butyl Ether	2.061	2.048		-0.63	20
Methyl Acetate	0.888	1.047		17.91	20
Methylene Chloride	0.731	0.679		-7.11	20
trans-1,2-Dichloroethene	0.607	0.576		-5.11	20
1,1-Dichloroethane	1.247	1.218	0.1	-2.33	20
Cyclohexane	1.082	1.015		-6.19	20
2-Butanone	0.555	0.537		-3.24	20
Carbon Tetrachloride	0.465	0.471		1.29	20
cis-1,2-Dichloroethene	0.749	0.729		-2.67	20
Bromochloromethane	0.594	0.601		1.18	20
Chloroform	1.239	1.221		-1.45	20
1,1,1-Trichloroethane	1.000	0.996		-0.4	20
Methylcyclohexane	0.549	0.568		3.46	20
Benzene	1.448	1.413		-2.42	20
1,2-Dichloroethane	0.521	0.545		4.61	20
Trichloroethene	0.340	0.329		-3.23	20
1,2-Dichloropropane	0.372	0.365		-1.88	20
Bromodichloromethane	0.516	0.537		4.07	20
4-Methyl-2-Pentanone	0.587	0.609		3.75	20
Toluene	0.849	0.858		1.06	20
t-1,3-Dichloropropene	0.431	0.479		11.14	20
cis-1,3-Dichloropropene	0.503	0.545		8.35	20
1,1,2-Trichloroethane	0.350	0.352		0.57	20
2-Hexanone	0.425	0.449		5.65	20
Dibromochloromethane	0.366	0.388		6.01	20
1,2-Dibromoethane	0.349	0.352		0.86	20
Tetrachloroethene	0.320	0.327		2.19	20
Chlorobenzene	1.058	1.075	0.3	1.61	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GENV01

Lab Code: CHEM Case No.: Q1576 SAS No.: Q1576 SDG No.: Q1576

Instrument ID: MSVOA_X Calibration Date/Time: 03/18/2025 10:02

Lab File ID: VX045312.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
Ethyl Benzene	1.843	1.908		3.53	20
m/p-Xylenes	0.675	0.703		4.15	20
o-Xylene	0.681	0.698		2.5	20
Styrene	1.101	1.193		8.36	20
Bromoform	0.266	0.287	0.1	7.89	20
Isopropylbenzene	3.903	3.904		0.03	20
1,1,2,2-Tetrachloroethane	1.432	1.398	0.3	-2.37	20
1,3-Dichlorobenzene	1.643	1.686		2.62	20
1,4-Dichlorobenzene	1.662	1.658		-0.24	20
1,2-Dichlorobenzene	1.648	1.675		1.64	20
1,2-Dibromo-3-Chloropropane	0.279	0.294		5.38	20
1,2,4-Trichlorobenzene	0.938	1.026		9.38	20
1,2,3-Trichlorobenzene	0.990	1.049		5.96	20
1,2-Dichloroethane-d4	0.795	0.819		3.02	20
Dibromofluoromethane	0.334	0.351		5.09	20
Toluene-d8	1.212	1.212		0	20
4-Bromofluorobenzene	0.402	0.438		8.95	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\VX031825\
 Data File : VX045312.D
 Acq On : 18 Mar 2025 10:02
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/19/2025
 Supervised By : Mahesh Dadoda 03/19/2025

Quant Time: Mar 19 01:38:06 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	99818	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	175808	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	151375	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	71356	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	81784	51.509	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.020%			
35) Dibromofluoromethane	5.379	113	61666	52.456	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.920%			
50) Toluene-d8	8.647	98	213078	49.996	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.000%			
62) 4-Bromofluorobenzene	11.079	95	77049	54.557	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 109.120%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	60222	47.929	ug/l	97
3) Chloromethane	1.300	50	69904	45.462	ug/l	100
4) Vinyl Chloride	1.374	62	62913	41.244	ug/l	97
5) Bromomethane	1.593	94	27332	45.580	ug/l	99
6) Chloroethane	1.660	64	31612	44.930	ug/l	100
7) Trichlorofluoromethane	1.867	101	93429	46.268	ug/l	96
8) Diethyl Ether	2.130	74	33560	42.490	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.312	101	62031	53.469	ug/l	98
10) Methyl Iodide	2.441	142	74553	51.423	ug/l	97
11) Tert butyl alcohol	2.983	59	58920	195.913	ug/l	99
12) 1,1-Dichloroethene	2.306	96	58098	47.367	ug/l	99
13) Acrolein	2.233	56	81811	235.324	ug/l	100
14) Allyl chloride	2.654	41	108834	49.848	ug/l	95
15) Acrylonitrile	3.062	53	193713	240.329	ug/l	99
16) Acetone	2.386	43	170062	230.853	ug/l	98
17) Carbon Disulfide	2.501	76	130150	39.839	ug/l	98
18) Methyl Acetate	2.703	43	104537	58.988	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	204467	49.687	ug/l	99
20) Methylene Chloride	2.782	84	67795	46.459	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	57461	47.420	ug/l	95
22) Diisopropyl ether	3.757	45	222471	50.102	ug/l	93
23) Vinyl Acetate	3.715	43	925572	249.784	ug/l	99
24) 1,1-Dichloroethane	3.599	63	121571	48.853	ug/l	99
25) 2-Butanone	4.556	43	267999	241.687	ug/l	100
26) 2,2-Dichloropropane	4.465	77	84755	72.611	ug/l	95
27) cis-1,2-Dichloroethene	4.477	96	72736	48.625	ug/l	93
28) Bromochloromethane	4.885	49	59956	50.547	ug/l	98
29) Tetrahydrofuran	5.001	42	169735	227.936	ug/l	100
30) Chloroform	5.080	83	121902	49.301	ug/l	97
31) Cyclohexane	5.458	56	101352	46.918	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	99429	49.788	ug/l	97
36) 1,1-Dichloropropene	5.684	75	79034	49.023	ug/l	99
37) Ethyl Acetate	4.708	43	99330	47.814	ug/l	99
38) Carbon Tetrachloride	5.666	117	82850	50.618	ug/l	98
39) Methylcyclohexane	7.373	83	99912	51.720	ug/l	99
40) Benzene	6.025	78	248464	48.805	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031825\
 Data File : VX045312.D
 Acq On : 18 Mar 2025 10:02
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :John Carlone 03/19/2025
 Supervised By :Mahesh Dadoda 03/19/2025

Quant Time: Mar 19 01:38:06 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	4.916	41	57809	51.464	ug/l	98
42) 1,2-Dichloroethane	6.080	62	95767	52.239	ug/l	98
43) Isopropyl Acetate	6.336	43	158682	51.656	ug/l	99
44) Trichloroethene	7.117	130	57829	48.376	ug/l	98
45) 1,2-Dichloropropane	7.427	63	64231	49.071	ug/l	100
46) Dibromomethane	7.574	93	47670	51.526	ug/l	97
47) Bromodichloromethane	7.818	83	94385	52.012	ug/l	99
48) Methyl methacrylate	7.690	41	81849	53.109	ug/l	95
49) 1,4-Dioxane	7.659	88	29493	907.231	ug/l	96
51) 4-Methyl-2-Pentanone	8.574	43	535545	259.644	ug/l	100
52) Toluene	8.714	92	150886	50.515	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	84146	55.465	ug/l	96
54) cis-1,3-Dichloropropene	8.360	75	95867	54.190	ug/l	94
55) 1,1,2-Trichloroethane	9.147	97	61925	50.360	ug/l	97
56) Ethyl methacrylate	9.116	69	100306	53.664	ug/l	96
57) 1,3-Dichloropropane	9.305	76	106823	50.198	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	265011	290.649	ug/l	98
59) 2-Hexanone	9.427	43	394266	263.820	ug/l	99
60) Dibromochloromethane	9.518	129	68198	53.043	ug/l	99
61) 1,2-Dibromoethane	9.604	107	61888	50.415	ug/l	98
64) Tetrachloroethene	9.269	164	49539	51.098	ug/l	94
65) Chlorobenzene	10.073	112	162786	50.822	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	54990	51.552	ug/l	98
67) Ethyl Benzene	10.189	91	288783	51.743	ug/l	100
68) m/p-Xylenes	10.299	106	212826	104.167	ug/l	98
69) o-Xylene	10.640	106	105690	51.291	ug/l	99
70) Styrene	10.652	104	180599	54.166	ug/l	99
71) Bromoform	10.799	173	43504	54.084	ug/l #	99
73) Isopropylbenzene	10.957	105	278606	50.023	ug/l	98
74) N-amyl acetate	10.841	43	139101	53.226	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	99756	48.809	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	81471m	49.055	ug/l	
77) Bromobenzene	11.195	156	64588	49.150	ug/l	98
78) n-propylbenzene	11.299	91	329285	52.338	ug/l	98
79) 2-Chlorotoluene	11.360	91	197543	49.301	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	229603	50.984	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	26079	53.737	ug/l	92
82) 4-Chlorotoluene	11.451	91	226650	51.902	ug/l	100
83) tert-Butylbenzene	11.713	119	232507	50.249	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	234292	51.705	ug/l	99
85) sec-Butylbenzene	11.890	105	295168	53.254	ug/l	100
86) p-Isopropyltoluene	12.006	119	243748	54.417	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	120314	51.323	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	118289	49.875	ug/l	99
89) n-Butylbenzene	12.329	91	223520	57.938	ug/l	99
90) Hexachloroethane	12.536	117	41142	50.780	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	119524	50.826	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	20953	52.623	ug/l	94
93) 1,2,4-Trichlorobenzene	13.585	180	73192	54.660	ug/l	100
94) Hexachlorobutadiene	13.725	225	30372	55.325	ug/l	99
95) Naphthalene	13.774	128	268238	52.139	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	74839	52.979	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031825\
Data File : VX045312.D
Acq On : 18 Mar 2025 10:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

Quant Time: Mar 19 01:38:06 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

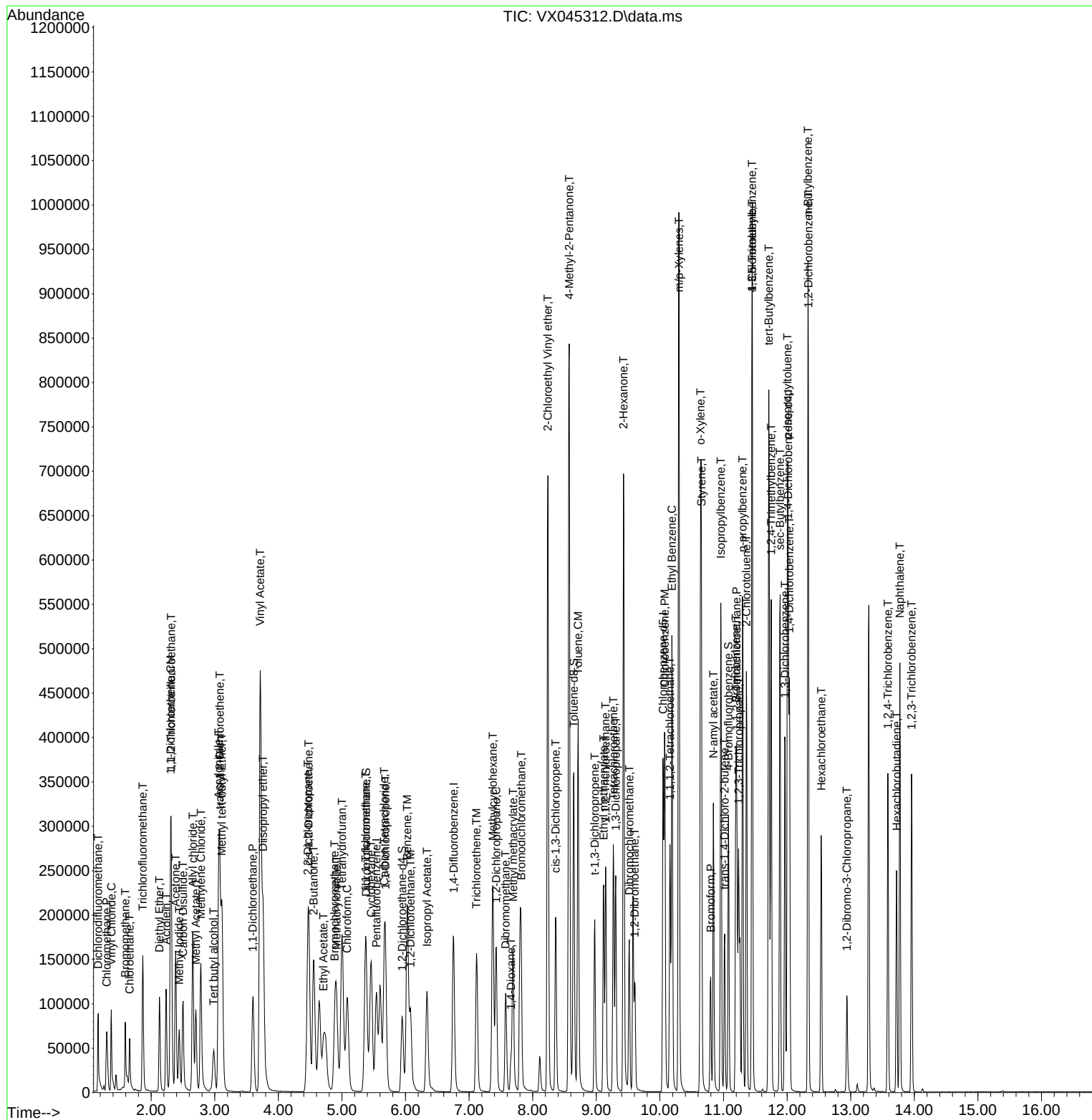
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Data File : VX045312.D
Acq On : 18 Mar 2025 10:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

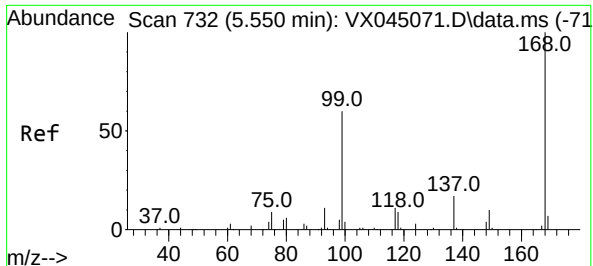
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Mar 19 01:38:06 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

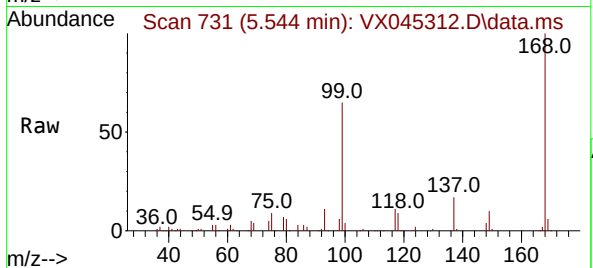
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

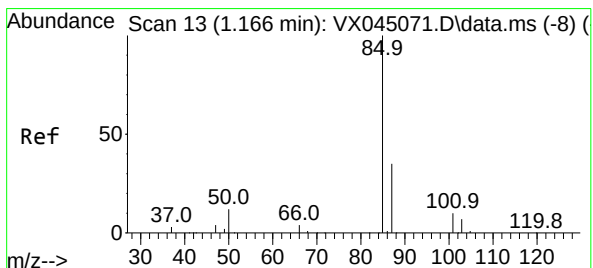
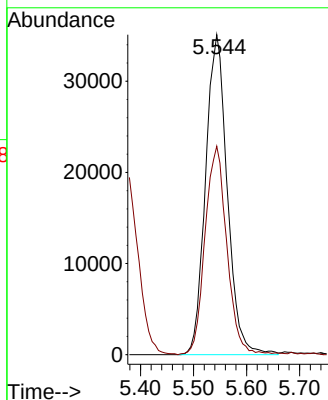
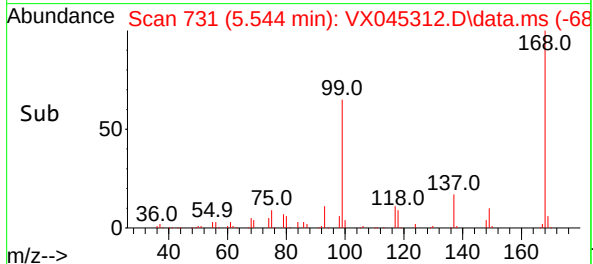
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:168 Resp: 99818
Ion Ratio Lower Upper
168 100
99 65.1 48.2 72.4

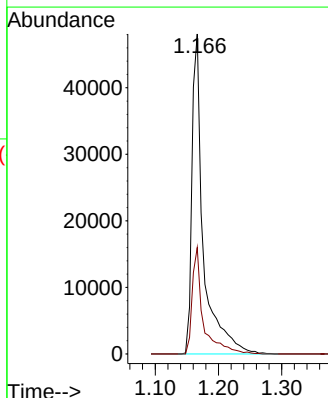
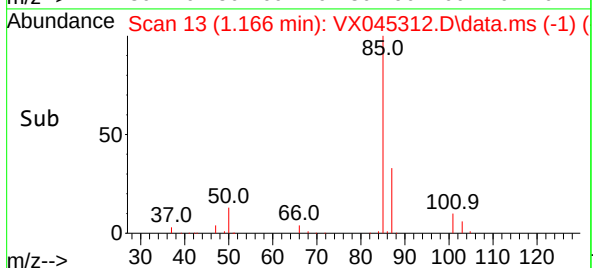
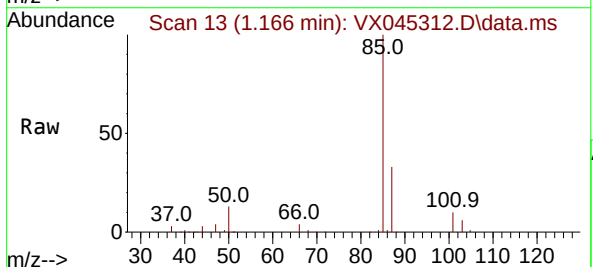
Manual Integrations
APPROVED

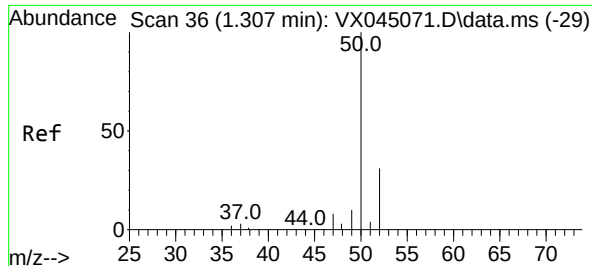
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#2
Dichlorodifluoromethane
Concen: 47.929 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

Tgt Ion: 85 Resp: 60222
Ion Ratio Lower Upper
85 100
87 33.2 17.4 52.3





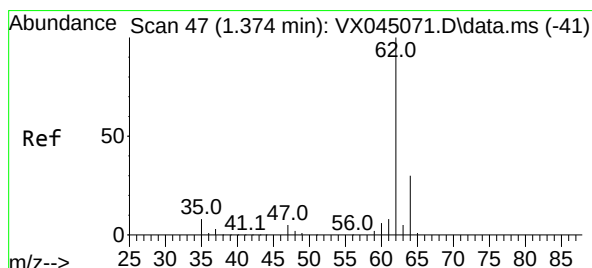
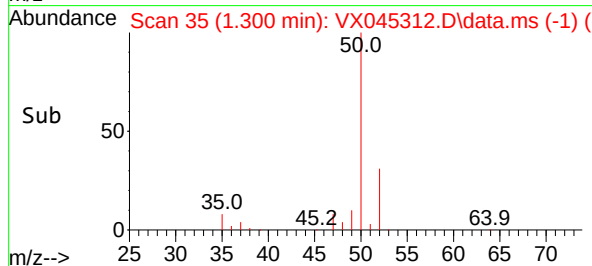
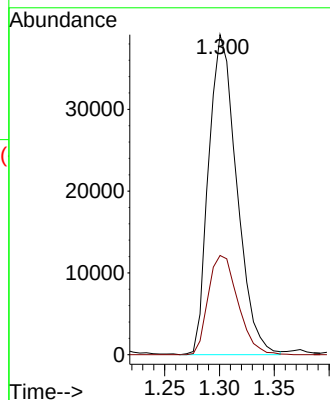
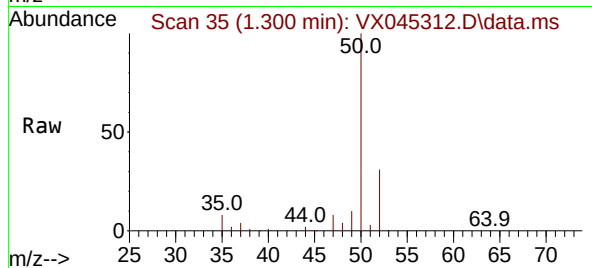
#3
Chloromethane
Concen: 45.462 ug/l
RT: 1.300 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 69904
Ion Ratio Lower Upper
50 100
52 31.0 25.0 37.4

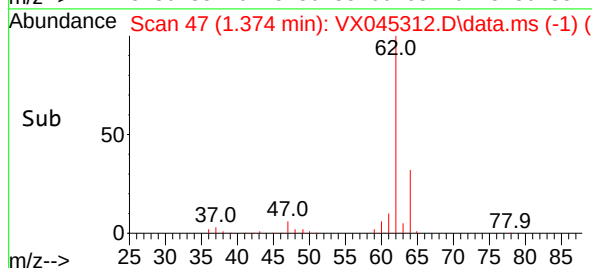
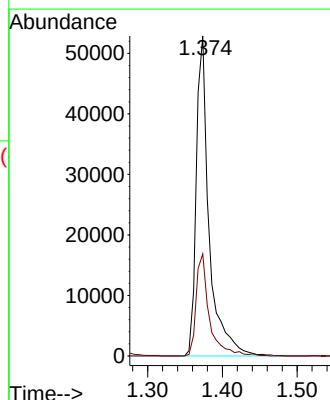
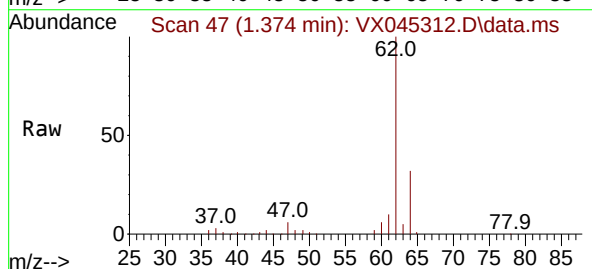
Manual Integrations
APPROVED

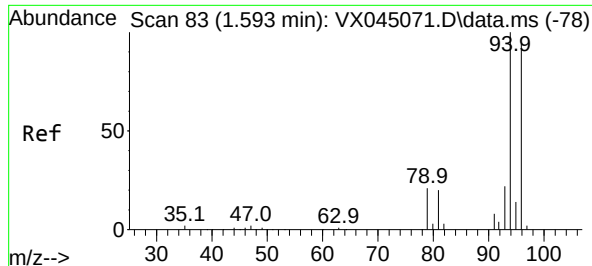
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#4
Vinyl Chloride
Concen: 41.244 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

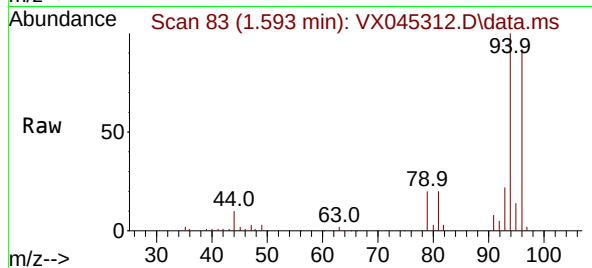
Tgt Ion: 62 Resp: 62913
Ion Ratio Lower Upper
62 100
64 31.9 24.3 36.5





#5
Bromomethane
Concen: 45.580 ug/l
RT: 1.593 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

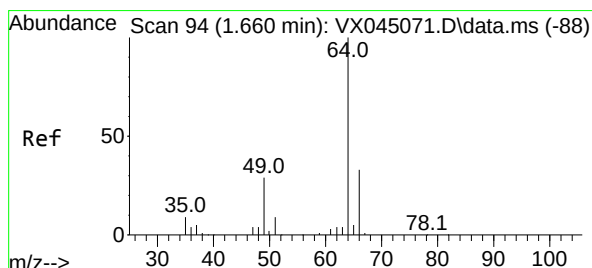
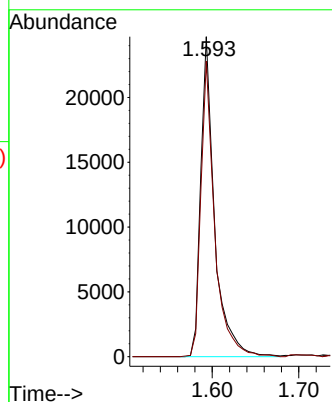
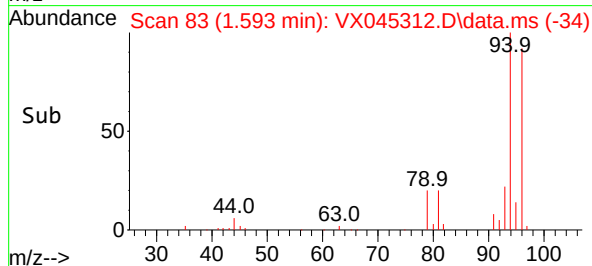
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 94 Resp: 2733
Ion Ratio Lower Upper
94 100
96 92.4 75.0 112.4

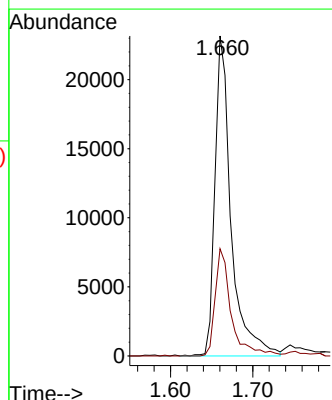
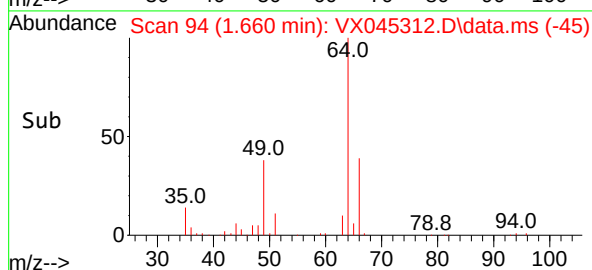
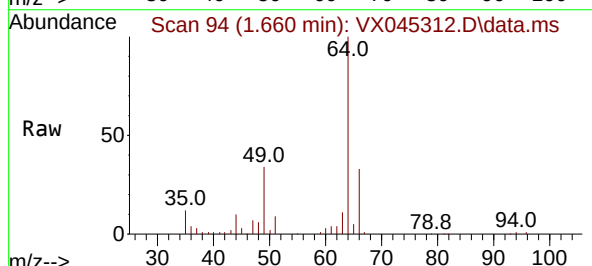
Manual Integrations
APPROVED

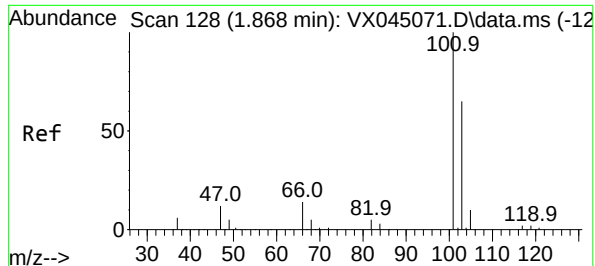
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#6
Chloroethane
Concen: 44.930 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

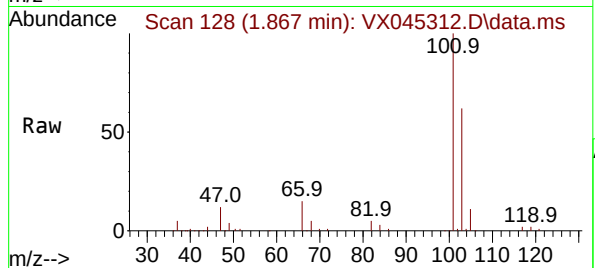
Tgt Ion: 64 Resp: 31612
Ion Ratio Lower Upper
64 100
66 33.5 26.7 40.1





#7
Trichlorofluoromethane
Concen: 46.268 ug/l
RT: 1.867 min Scan# 101
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

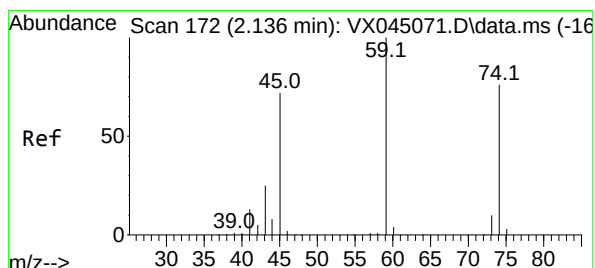
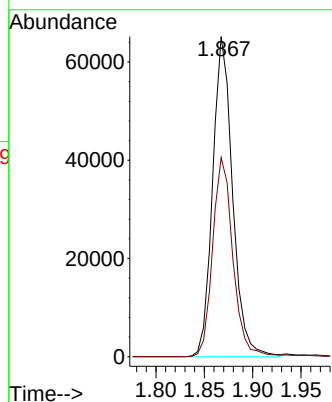
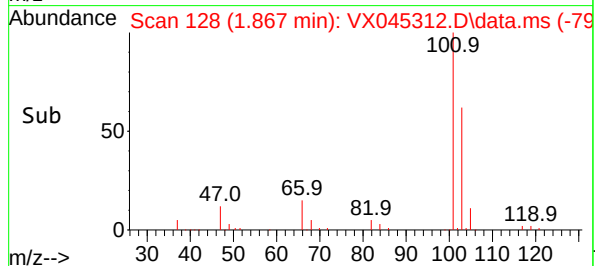
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:101 Resp: 93429
Ion Ratio Lower Upper
101 100
103 62.2 52.1 78.1

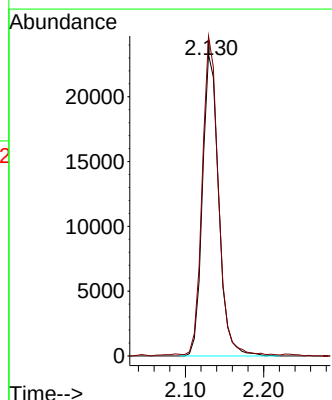
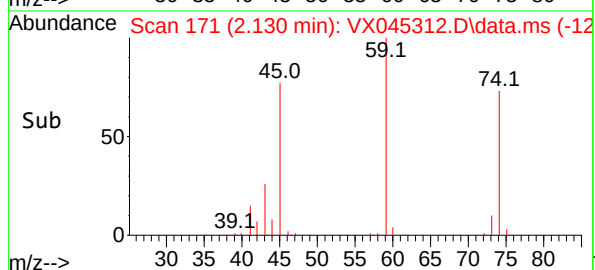
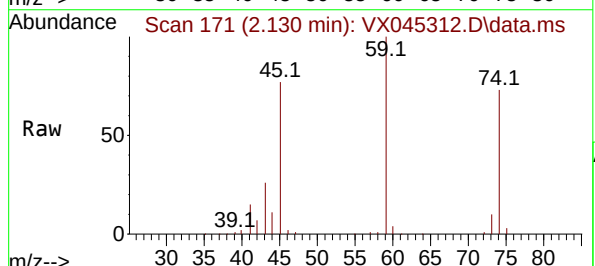
Manual Integrations
APPROVED

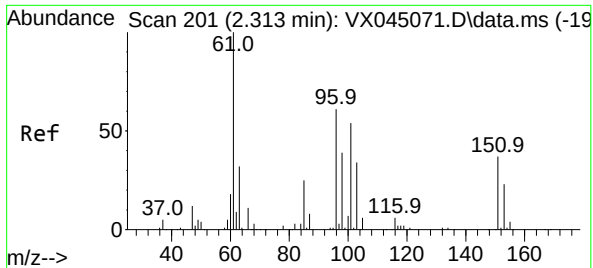
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#8
Diethyl Ether
Concen: 42.490 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

Tgt Ion: 74 Resp: 33560
Ion Ratio Lower Upper
74 100
45 106.8 51.5 154.5





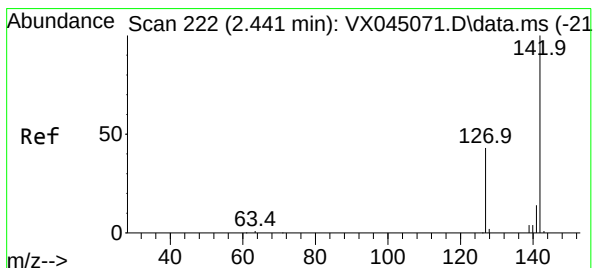
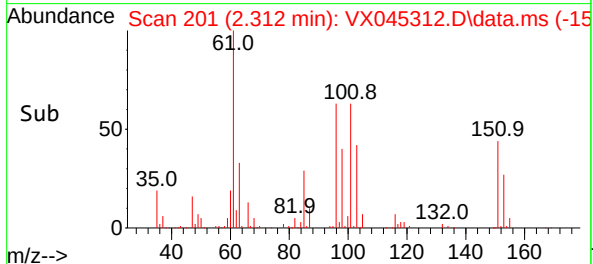
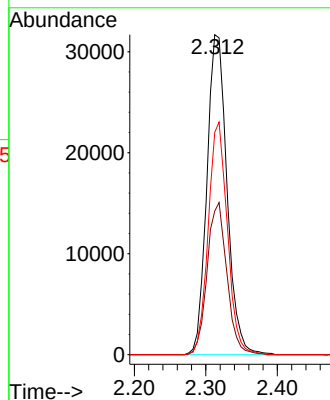
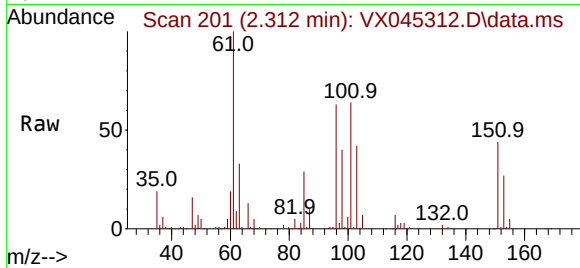
#9
1,1,2-Trichlorotrifluoroethane
Concen: 53.469 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 6203
Ion Ratio Lower Upper
101 100
85 46.7 36.2 54.4
151 69.2 56.4 84.6

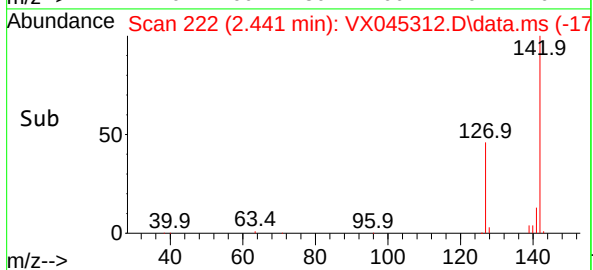
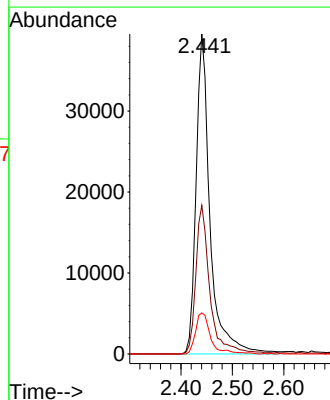
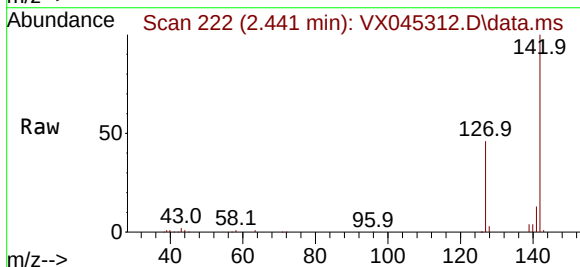
Manual Integrations
APPROVED

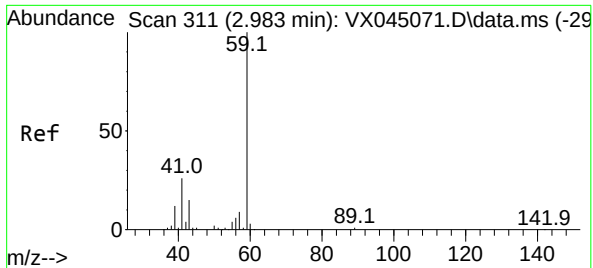
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#10
Methyl Iodide
Concen: 51.423 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

Tgt Ion:142 Resp: 74553
Ion Ratio Lower Upper
142 100
127 46.9 35.4 53.2
141 13.9 11.6 17.4





#11

Tert butyl alcohol

Concen: 195.913 ug/l

RT: 2.983 min Scan# 311

Delta R.T. -0.000 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 58920

Ion Ratio Lower Upper

59 100

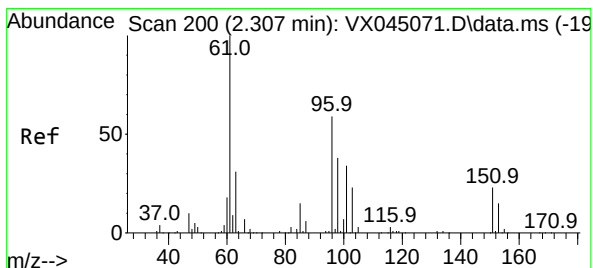
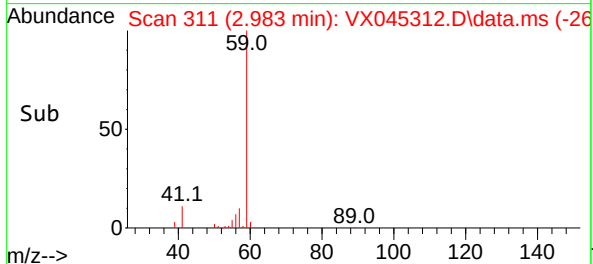
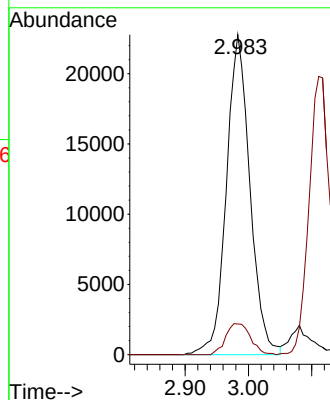
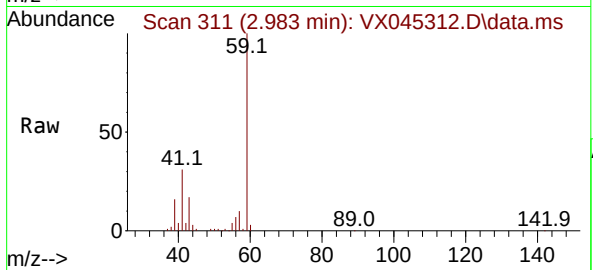
57 10.2 7.8 11.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#12

1,1-Dichloroethene

Concen: 47.367 ug/l

RT: 2.306 min Scan# 200

Delta R.T. -0.000 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

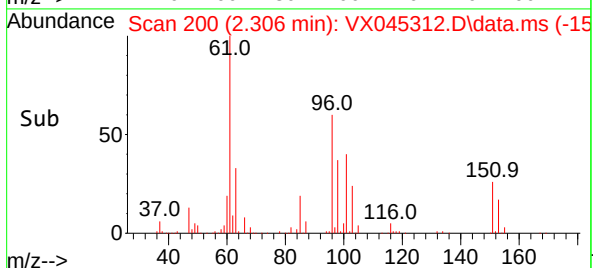
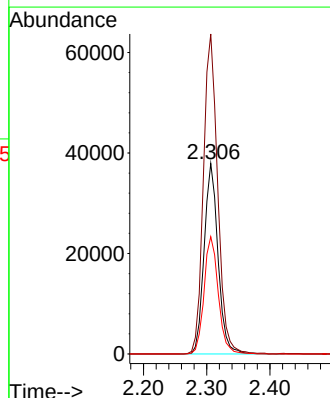
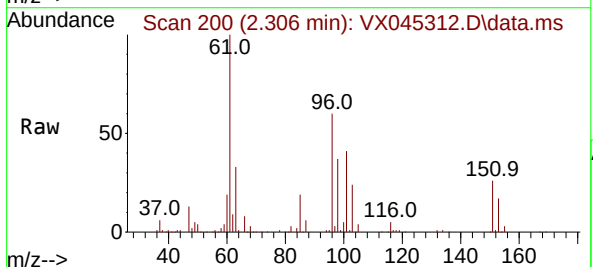
Tgt Ion: 96 Resp: 58098

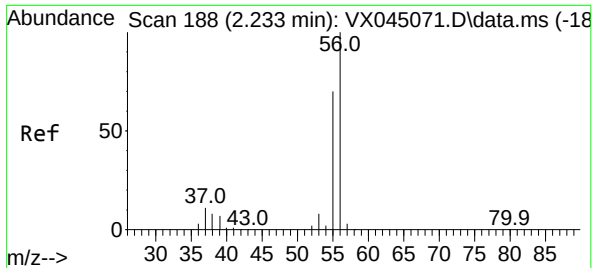
Ion Ratio Lower Upper

96 100

61 168.0 134.6 202.0

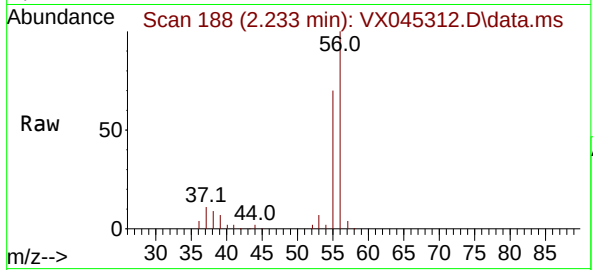
98 61.6 51.0 76.6





#13
Acrolein
Concen: 235.324 ug/l
RT: 2.233 min Scan# 188
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

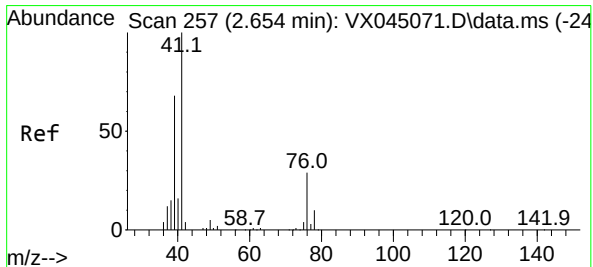
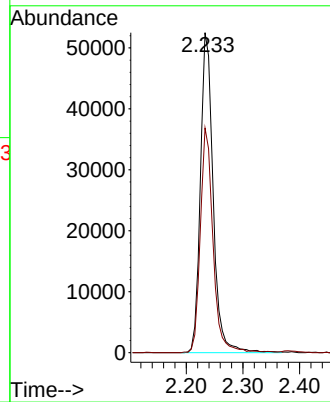
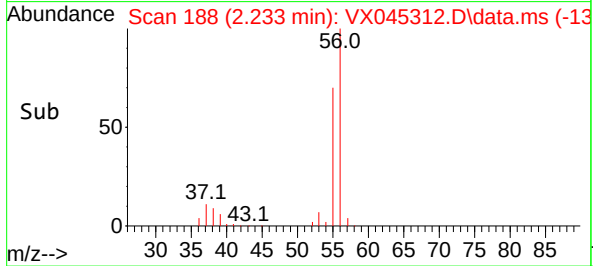
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 56 Resp: 8181
Ion Ratio Lower Upper
56 100
55 70.1 56.2 84.4

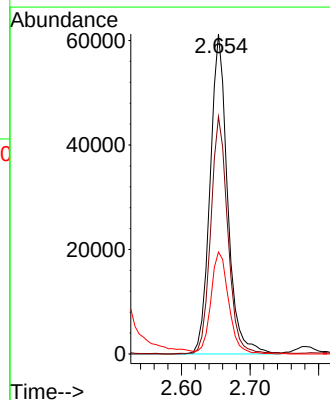
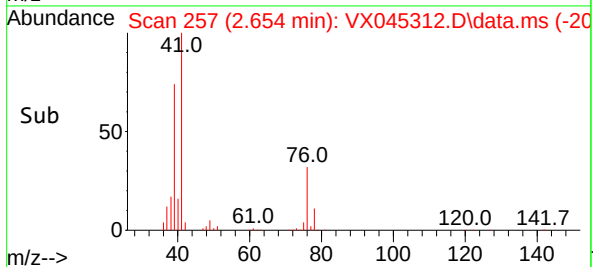
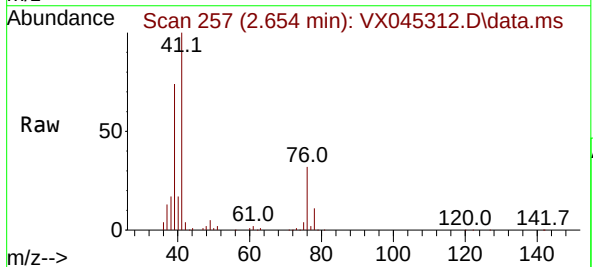
Manual Integrations
APPROVED

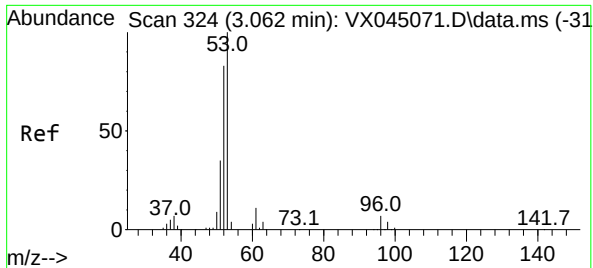
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#14
Allyl chloride
Concen: 49.848 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

Tgt Ion: 41 Resp: 108834
Ion Ratio Lower Upper
41 100
39 72.6 53.8 80.8
76 32.4 25.2 37.8





#15

Acrylonitrile

Concen: 240.329 ug/l

RT: 3.062 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 53 Resp: 19371

Ion Ratio Lower Upper

53 100

52 84.0 66.2 99.2

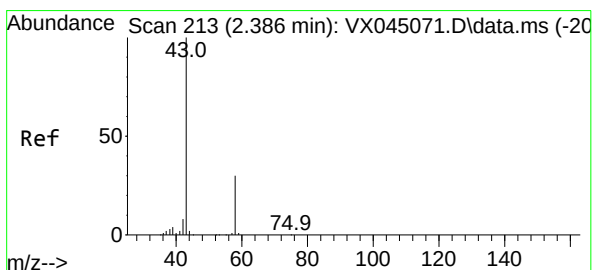
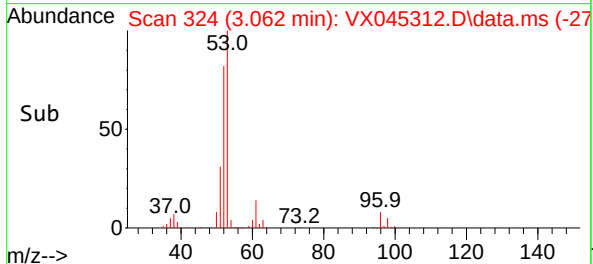
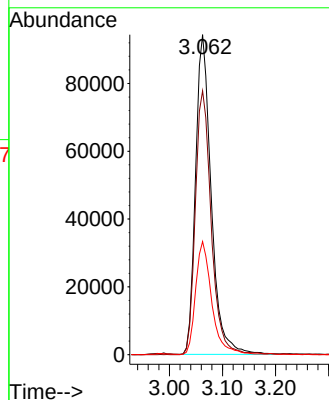
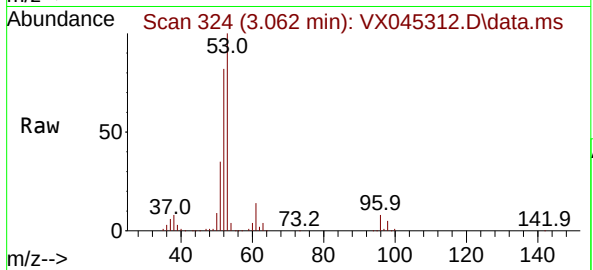
51 36.1 29.0 43.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#16

Acetone

Concen: 230.853 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.000 min

Lab File: VX045312.D

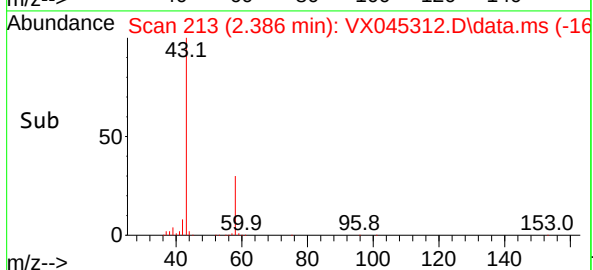
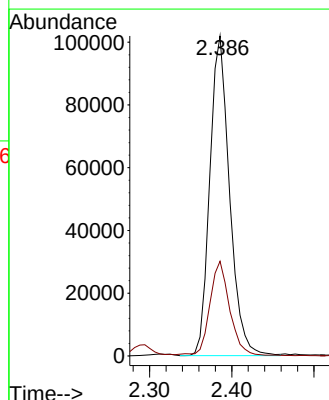
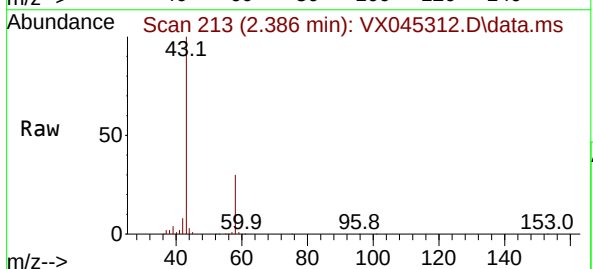
Acq: 18 Mar 2025 10:02

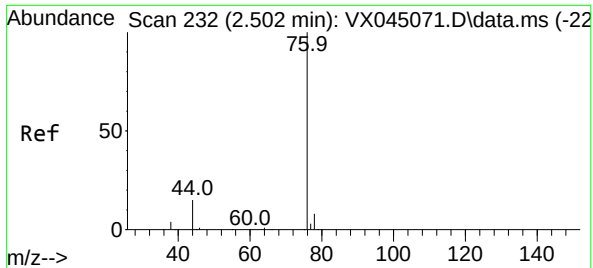
Tgt Ion: 43 Resp: 170062

Ion Ratio Lower Upper

43 100

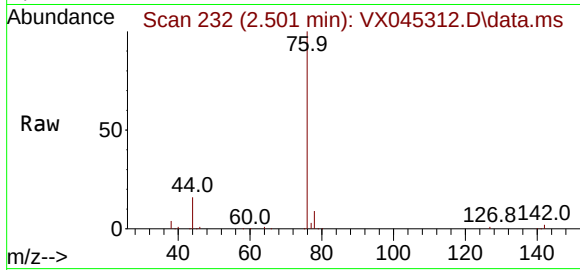
58 29.4 24.2 36.4





#17
Carbon Disulfide
Concen: 39.839 ug/l
RT: 2.501 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

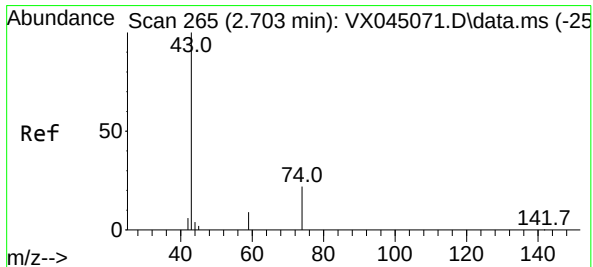
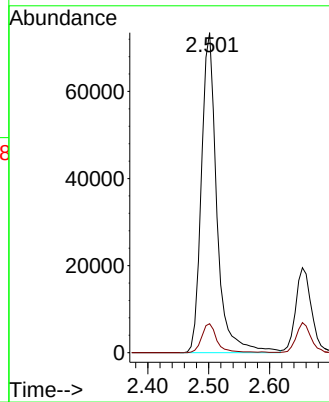
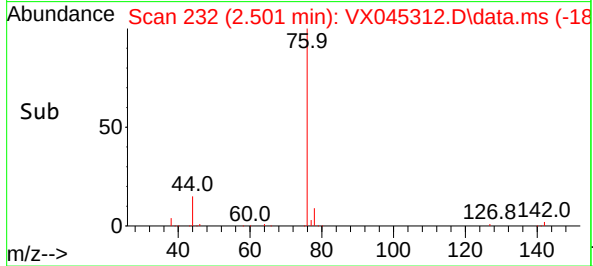
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 76 Resp: 130150
Ion Ratio Lower Upper
76 100
78 9.1 6.6 9.8

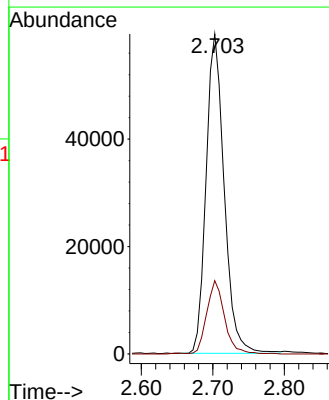
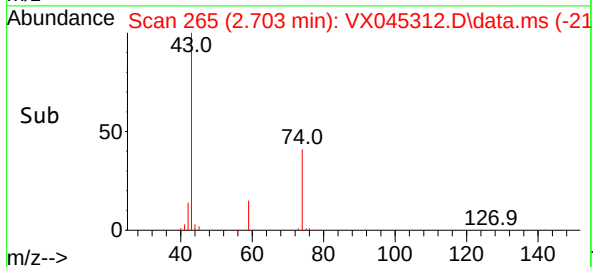
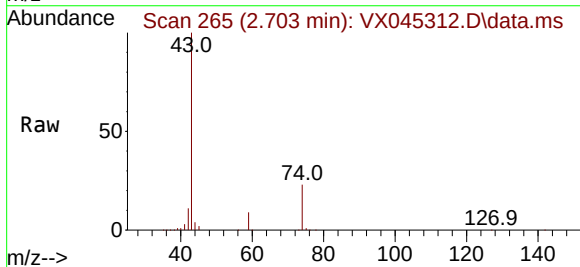
Manual Integrations
APPROVED

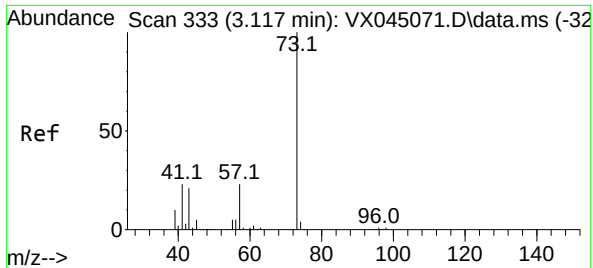
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#18
Methyl Acetate
Concen: 58.988 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

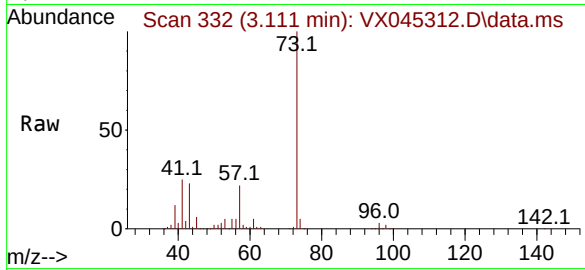
Tgt Ion: 43 Resp: 104537
Ion Ratio Lower Upper
43 100
74 22.0 17.4 26.2





#19
Methyl tert-butyl Ether
Concen: 49.687 ug/l
RT: 3.111 min Scan# 311
Delta R.T. -0.006 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

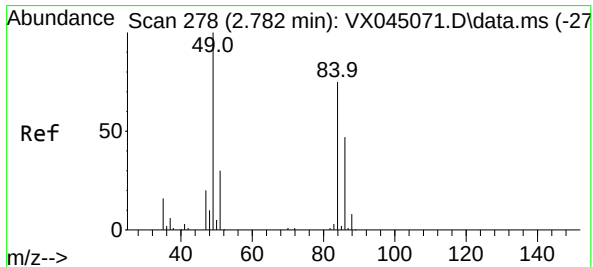
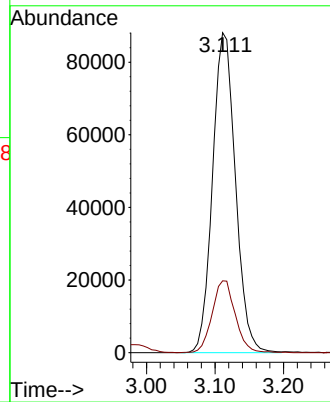
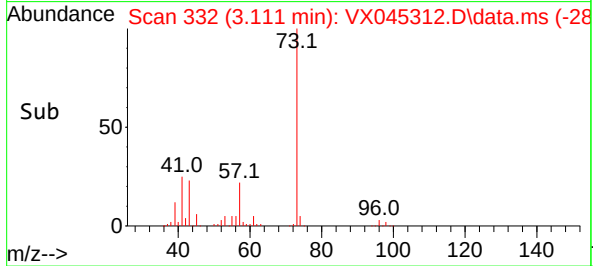
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 73 Resp: 20446
Ion Ratio Lower Upper
73 100
57 22.4 18.5 27.7

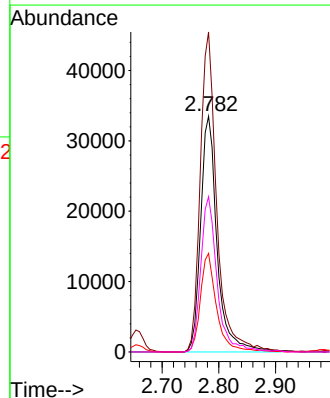
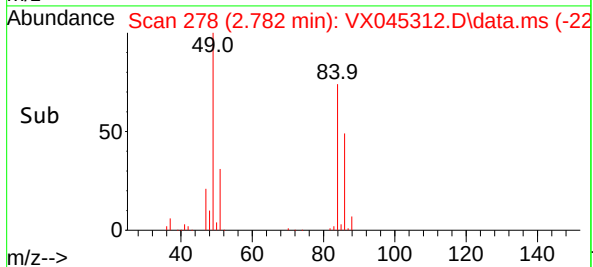
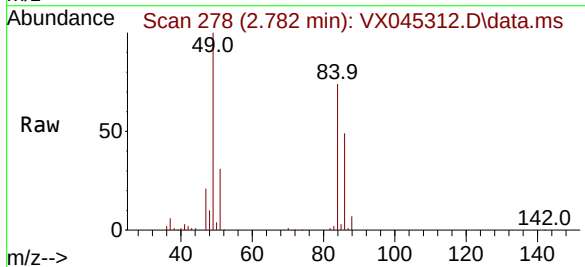
Manual Integrations
APPROVED

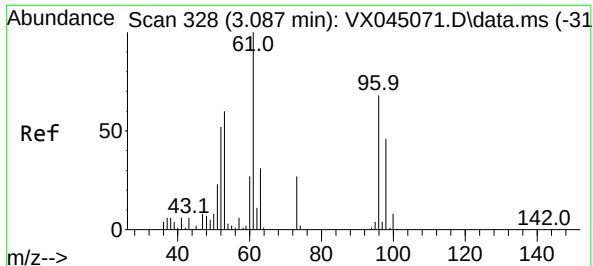
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#20
Methylene Chloride
Concen: 46.459 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

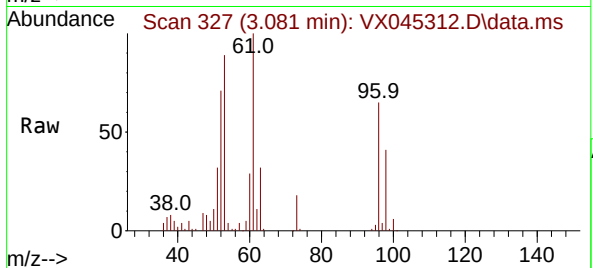
Tgt Ion: 84 Resp: 67795
Ion Ratio Lower Upper
84 100
49 135.8 106.5 159.7
51 41.8 32.1 48.1
86 65.9 50.0 75.0





#21
trans-1,2-Dichloroethene
Concen: 47.420 ug/l
RT: 3.081 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

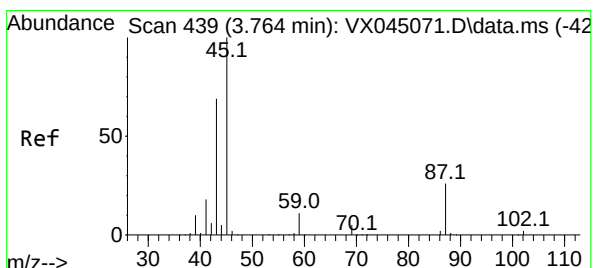
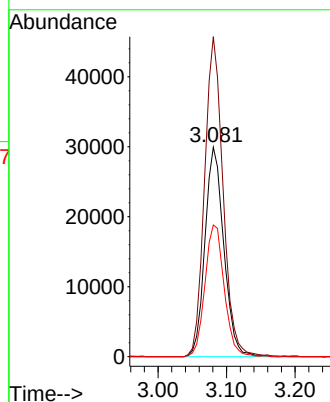
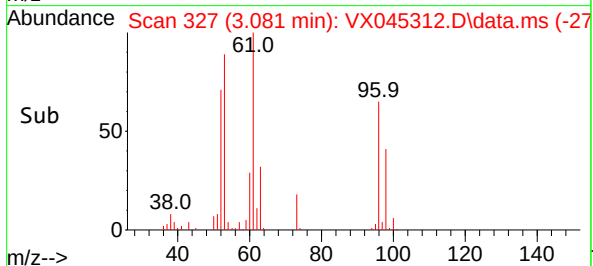
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 96 Resp: 5746
Ion Ratio Lower Upper
96 100
61 152.8 117.0 175.4
98 62.9 53.4 80.2

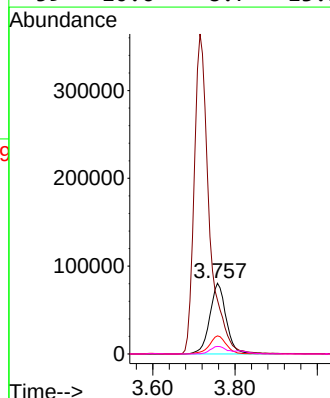
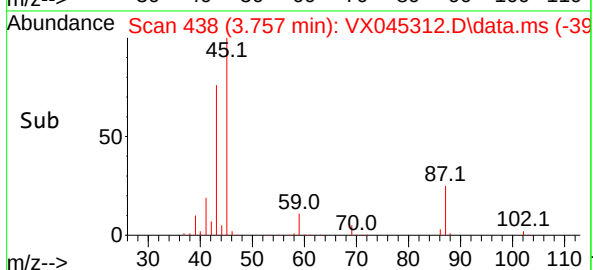
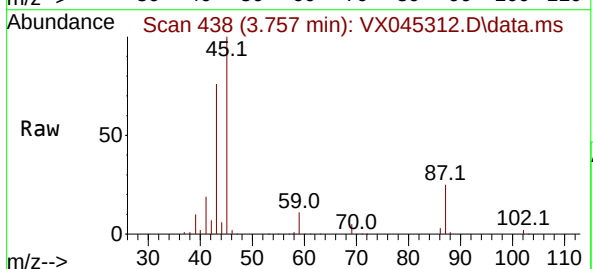
Manual Integrations
APPROVED

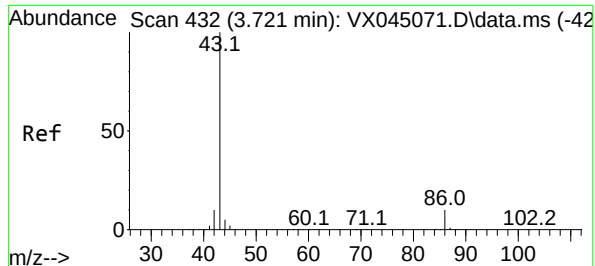
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#22
Diisopropyl ether
Concen: 50.102 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

Tgt Ion: 45 Resp: 222471
Ion Ratio Lower Upper
45 100
43 76.2 54.9 82.3
87 25.5 21.0 31.4
59 10.6 8.7 13.1





#23

Vinyl Acetate

Concen: 249.784 ug/l

RT: 3.715 min Scan# 41

Delta R.T. -0.006 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 925572

Ion Ratio Lower Upper

43 100

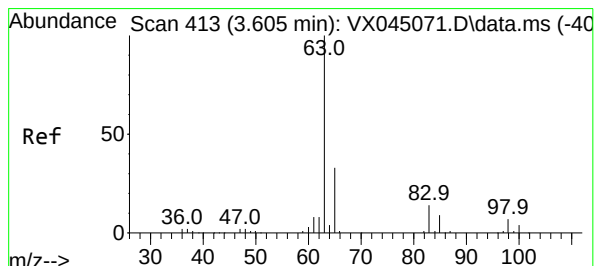
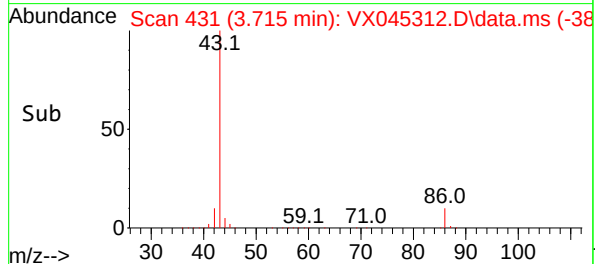
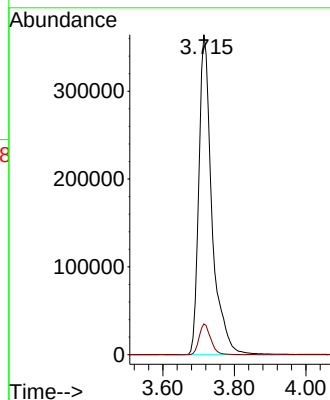
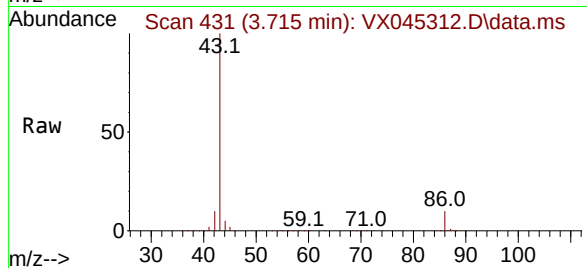
86 9.6 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#24

1,1-Dichloroethane

Concen: 48.853 ug/l

RT: 3.599 min Scan# 412

Delta R.T. -0.006 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

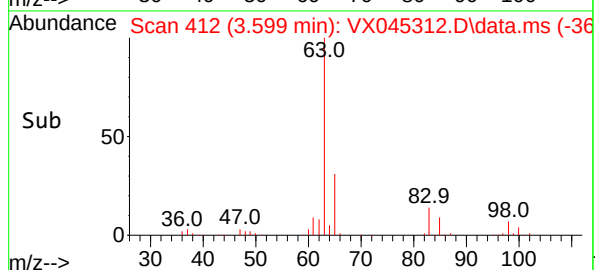
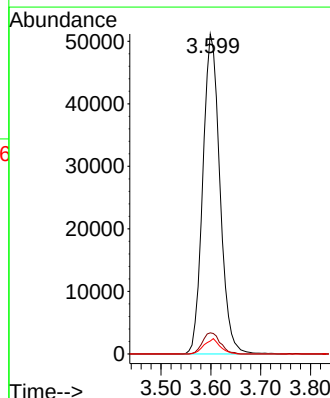
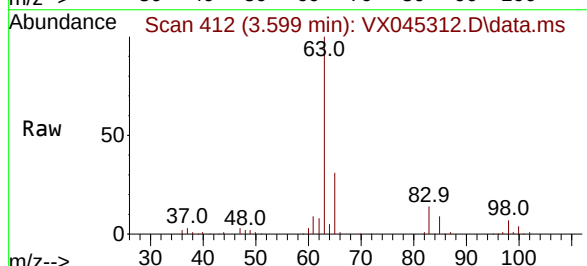
Tgt Ion: 63 Resp: 121571

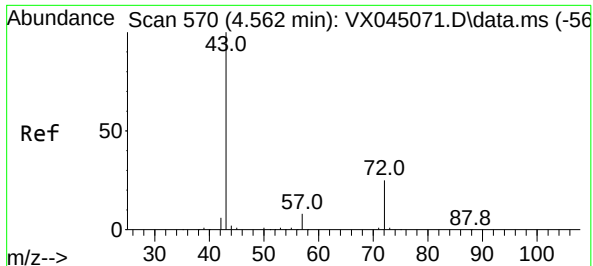
Ion Ratio Lower Upper

63 100

98 6.6 3.4 10.2

100 4.0 2.1 6.5





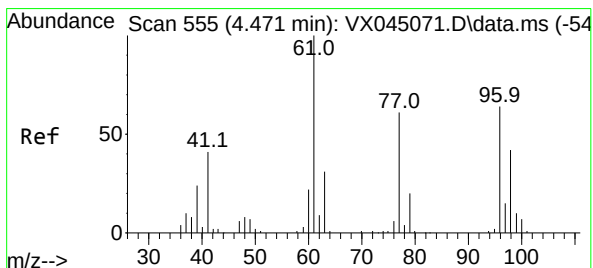
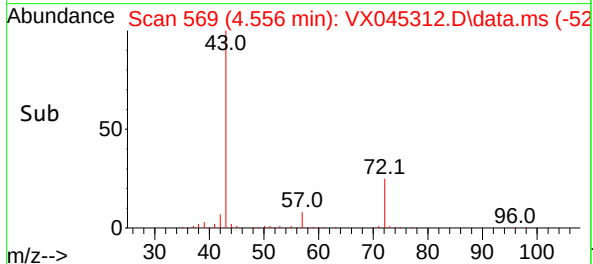
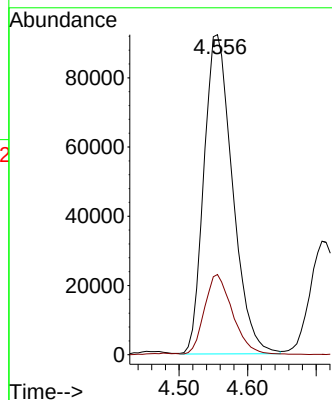
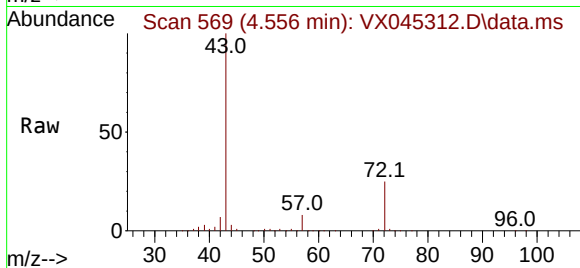
#25
2-Butanone
Concen: 241.687 ug/l
RT: 4.556 min Scan# 50
Delta R.T. -0.006 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 267999
Ion Ratio Lower Upper
43 100
72 24.9 20.0 30.0

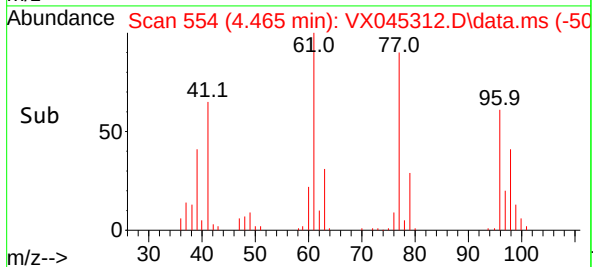
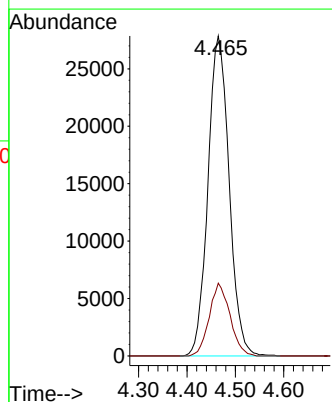
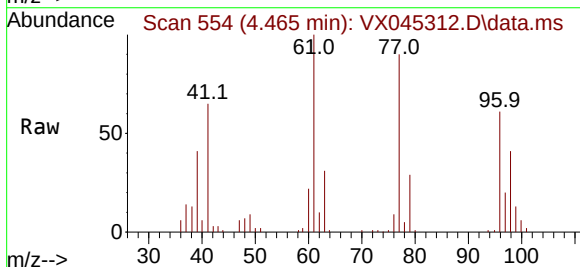
Manual Integrations
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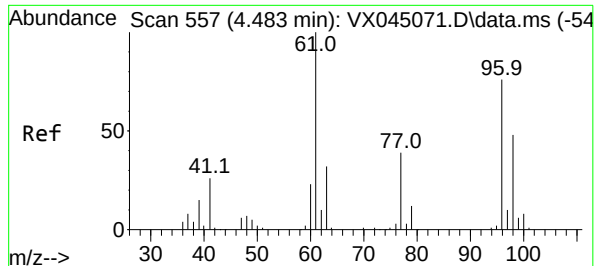
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#26
2,2-Dichloropropane
Concen: 72.611 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

Tgt Ion: 77 Resp: 84755
Ion Ratio Lower Upper
77 100
97 22.3 12.4 37.0





#27

cis-1,2-Dichloroethene

Concen: 48.625 ug/l

RT: 4.477 min Scan# 557

Delta R.T. -0.006 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 72730

Ion Ratio Lower Upper

96 100

61 153.4 0.0 283.2

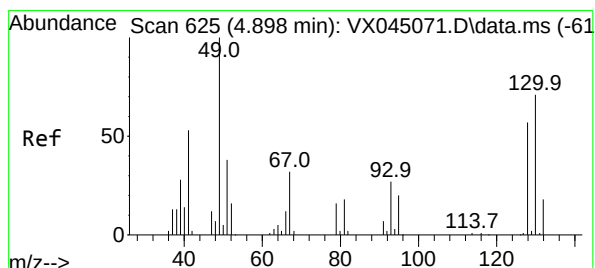
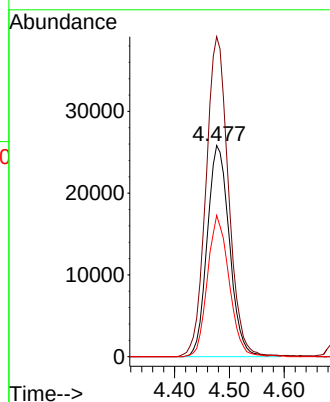
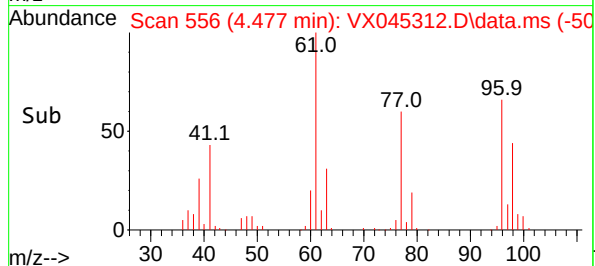
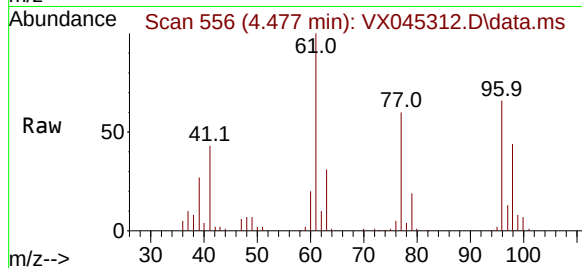
98 64.8 0.0 128.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#28

Bromochloromethane

Concen: 50.547 ug/l

RT: 4.885 min Scan# 623

Delta R.T. -0.012 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

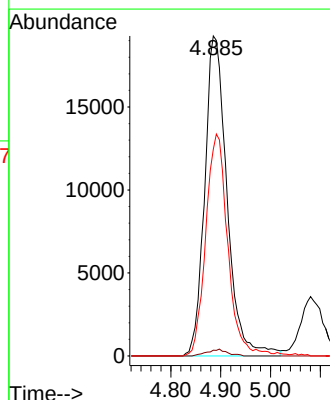
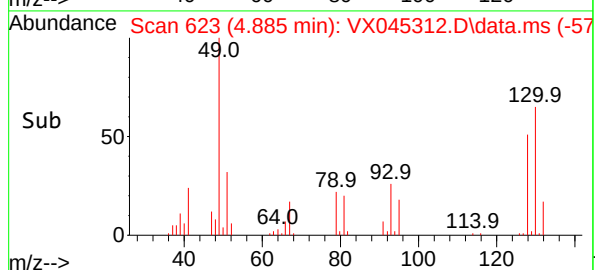
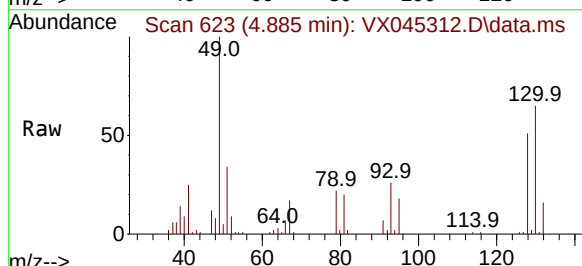
Tgt Ion: 49 Resp: 59956

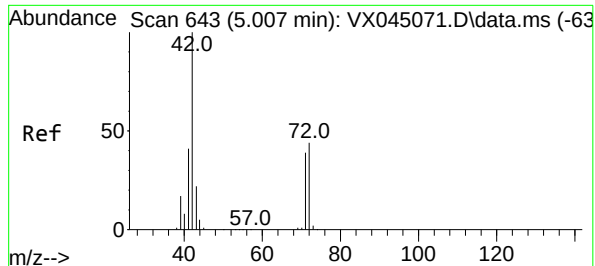
Ion Ratio Lower Upper

49 100

129 1.9 0.0 3.4

130 68.2 56.1 84.1





#29

Tetrahydrofuran

Concen: 227.936 ug/l

RT: 5.001 min Scan# 64

Delta R.T. -0.006 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 16973

Ion Ratio Lower Upper

42 100

72 42.8 34.1 51.1

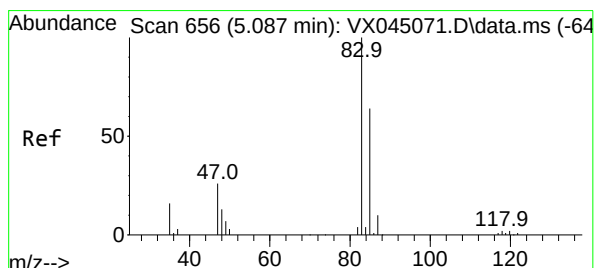
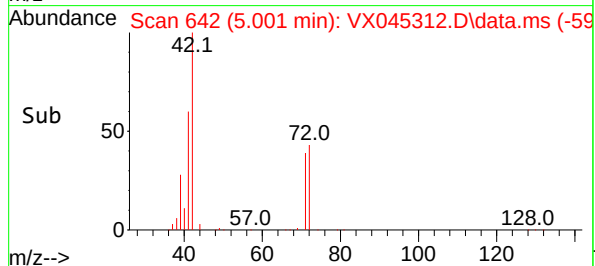
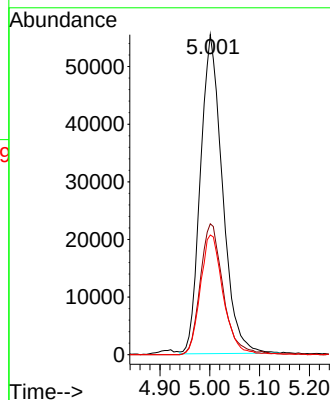
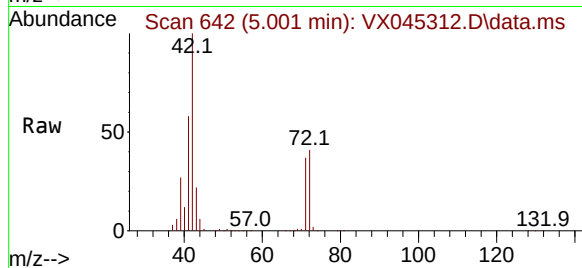
71 38.9 31.4 47.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#30

Chloroform

Concen: 49.301 ug/l

RT: 5.080 min Scan# 655

Delta R.T. -0.006 min

Lab File: VX045312.D

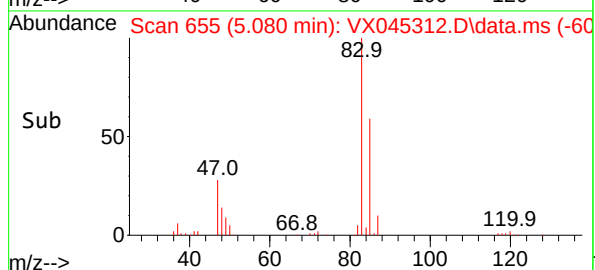
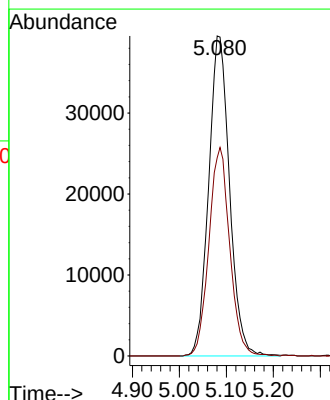
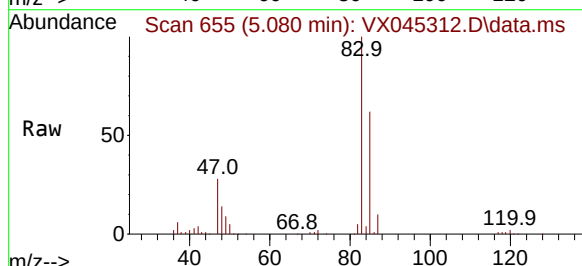
Acq: 18 Mar 2025 10:02

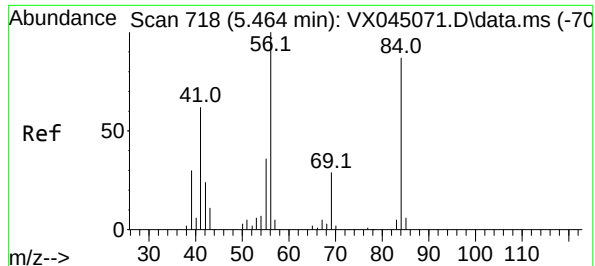
Tgt Ion: 83 Resp: 121902

Ion Ratio Lower Upper

83 100

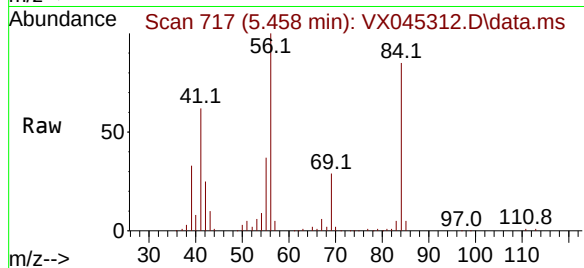
85 61.9 51.4 77.2





#31
Cyclohexane
Concen: 46.918 ug/l
RT: 5.458 min Scan# 717
Delta R.T. -0.006 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

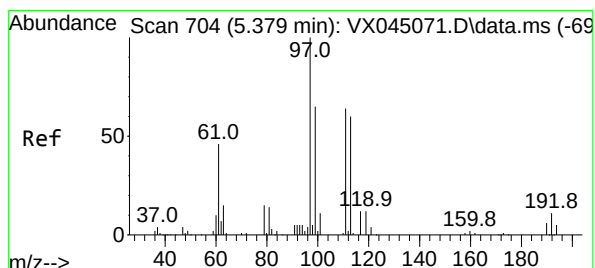
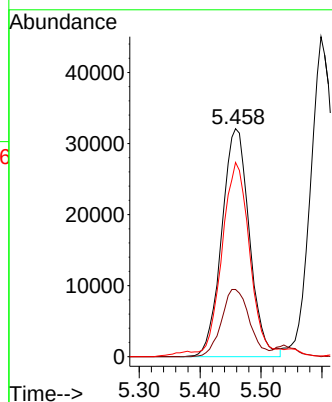
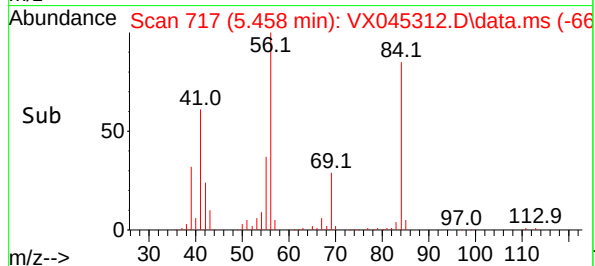
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 56 Resp: 101352
Ion Ratio Lower Upper
56 100
69 29.5 23.4 35.2
84 83.5 69.4 104.2

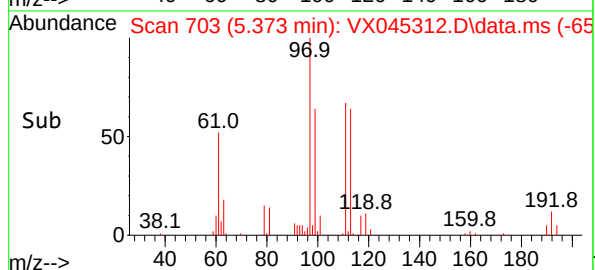
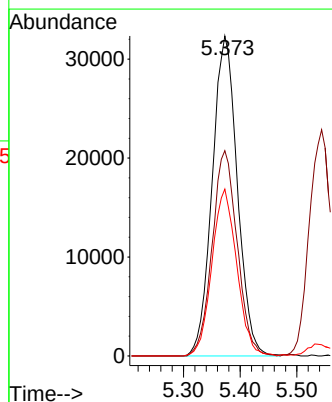
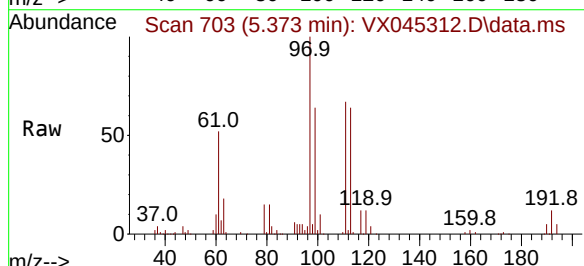
Manual Integrations
APPROVED

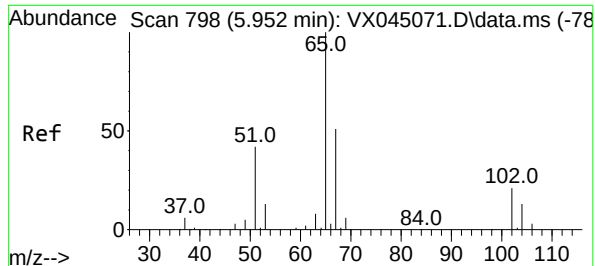
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#32
1,1,1-Trichloroethane
Concen: 49.788 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

Tgt Ion: 97 Resp: 99429
Ion Ratio Lower Upper
97 100
99 63.9 51.6 77.4
61 51.7 38.4 57.6





#33

1,2-Dichloroethane-d4

Concen: 51.509 ug/l

RT: 5.946 min Scan# 798

Delta R.T. -0.006 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 81784

Ion Ratio Lower Upper

65 100

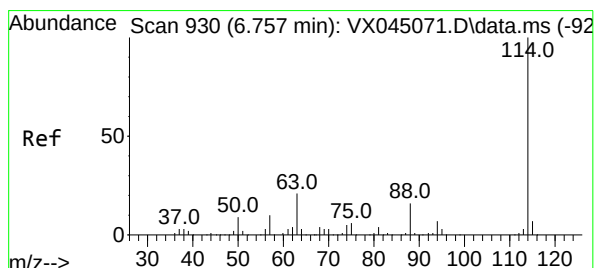
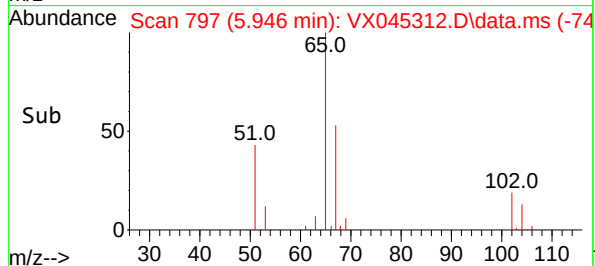
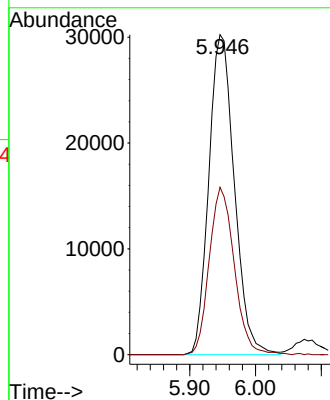
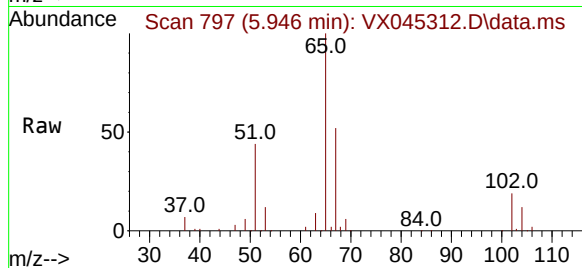
67 51.3 0.0 106.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

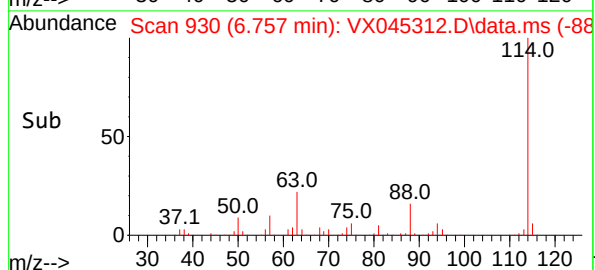
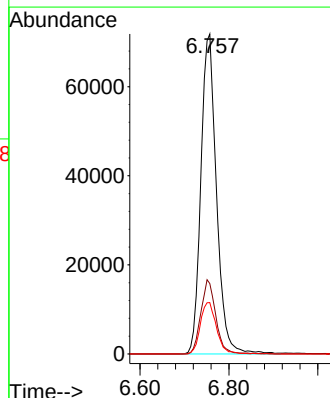
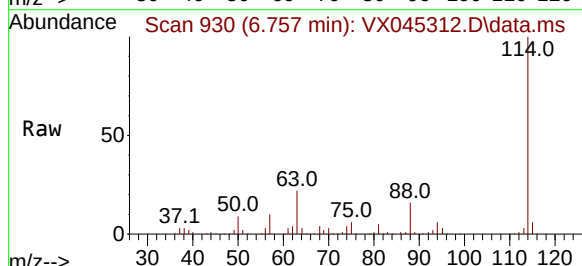
Tgt Ion:114 Resp: 175808

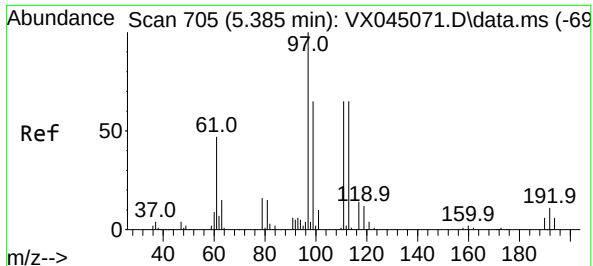
Ion Ratio Lower Upper

114 100

63 22.0 0.0 41.8

88 16.1 0.0 32.8





#35

Dibromofluoromethane

Concen: 52.456 ug/l

RT: 5.379 min Scan# 705

Delta R.T. -0.006 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:113 Resp: 6166

Ion Ratio Lower Upper

113 100

111 102.5 81.8 122.6

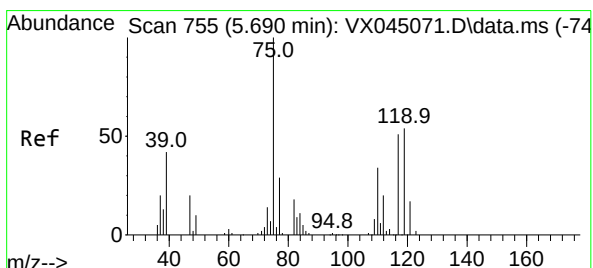
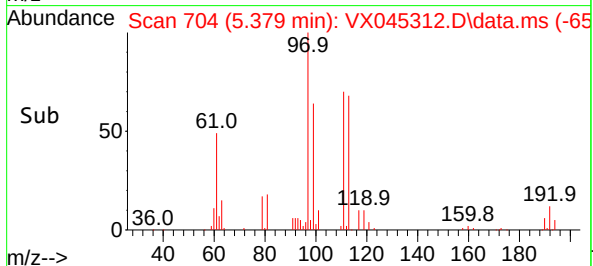
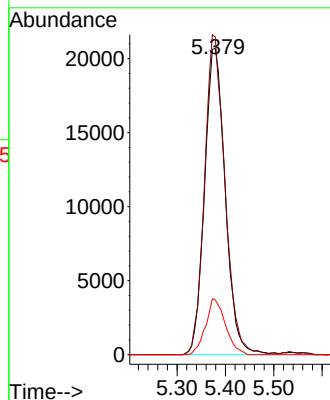
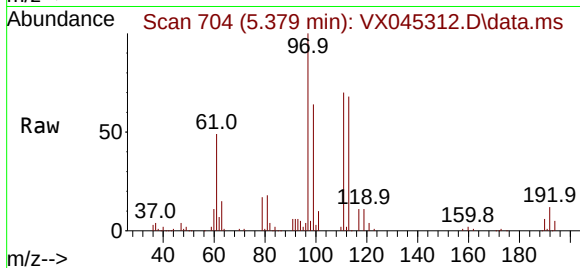
192 17.5 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#36

1,1-Dichloropropene

Concen: 49.023 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

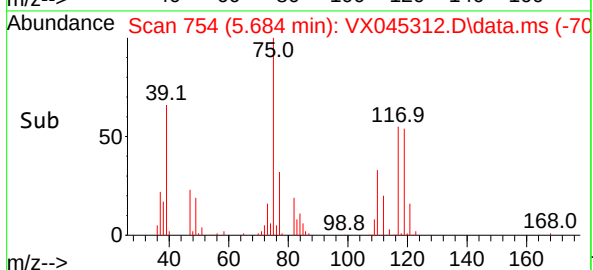
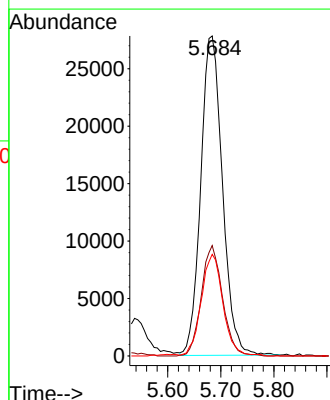
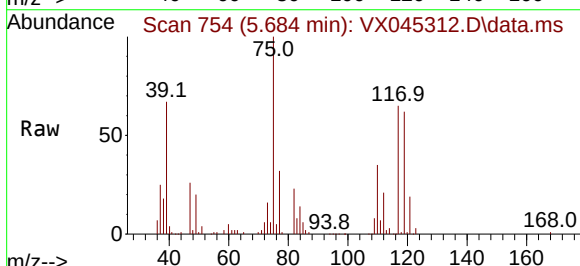
Tgt Ion: 75 Resp: 79034

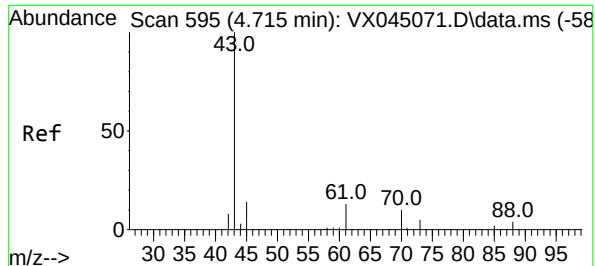
Ion Ratio Lower Upper

75 100

110 33.7 16.9 50.6

77 31.8 24.5 36.7





#37

Ethyl Acetate

Concen: 47.814 ug/l

RT: 4.708 min Scan# 594

Delta R.T. -0.006 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 99330

Ion Ratio Lower Upper

43 100

61 13.2 10.8 16.2

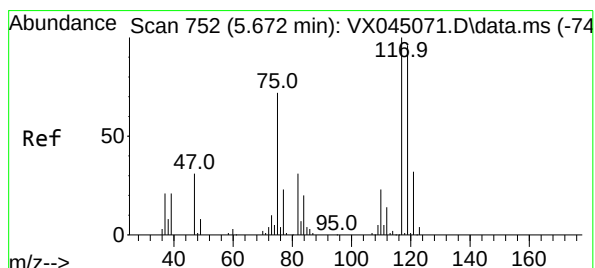
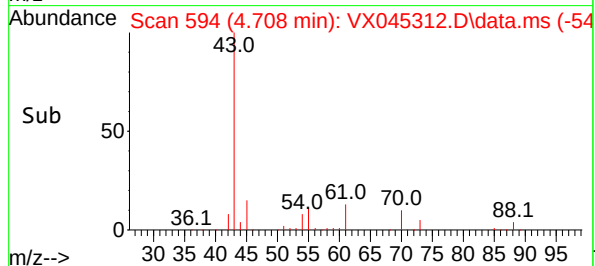
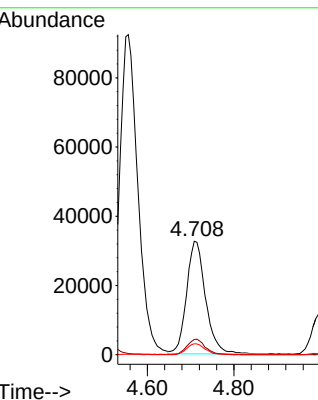
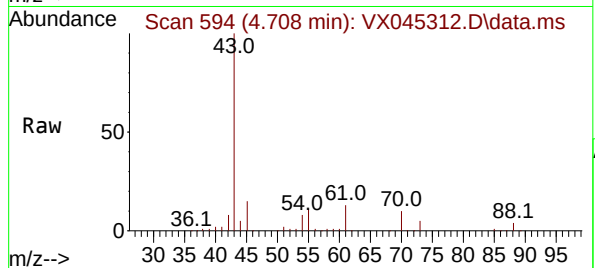
70 9.4 7.7 11.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#38

Carbon Tetrachloride

Concen: 50.618 ug/l

RT: 5.666 min Scan# 751

Delta R.T. -0.006 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

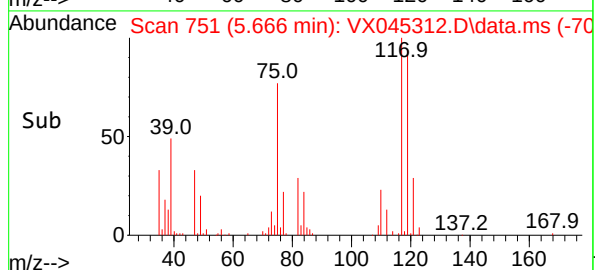
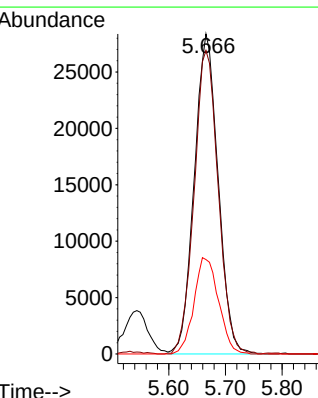
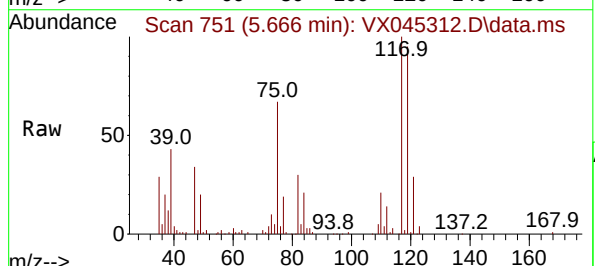
Tgt Ion:117 Resp: 82850

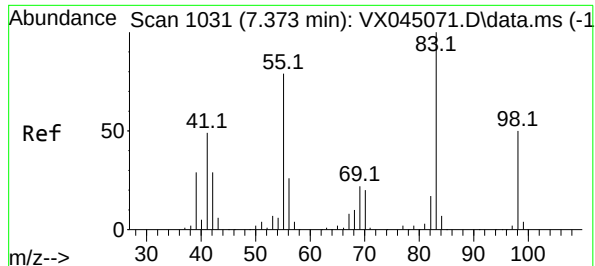
Ion Ratio Lower Upper

117 100

119 94.6 76.7 115.1

121 29.5 25.5 38.3





#39

Methylcyclohexane

Concen: 51.720 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 9991

Ion Ratio Lower Upper

83 100

55 78.6 63.0 94.4

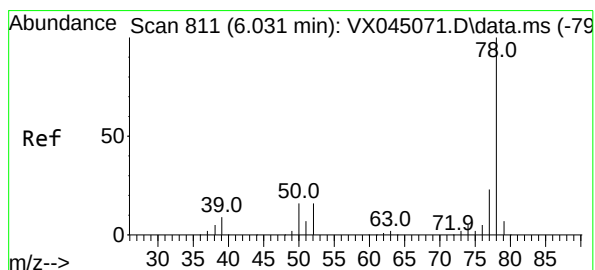
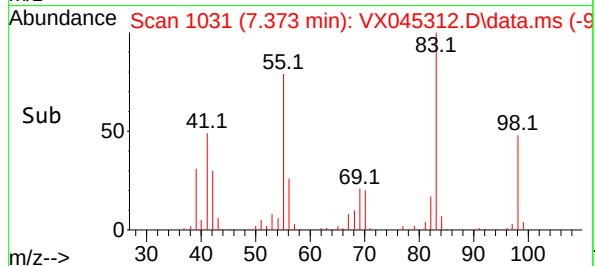
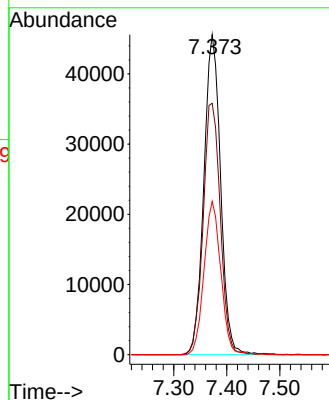
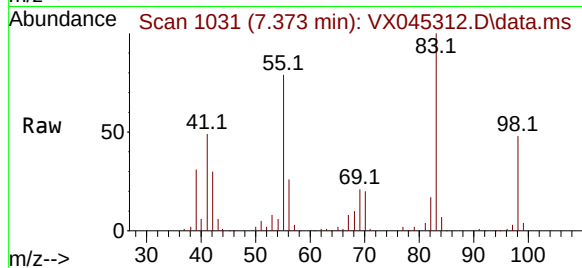
98 47.9 39.7 59.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#40

Benzene

Concen: 48.805 ug/l

RT: 6.025 min Scan# 810

Delta R.T. -0.006 min

Lab File: VX045312.D

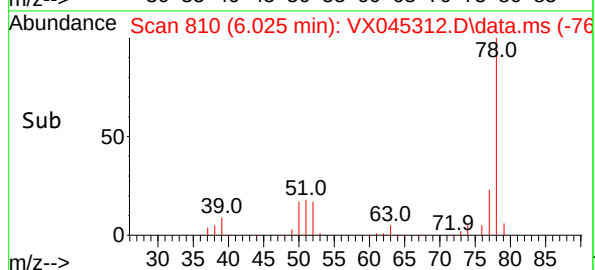
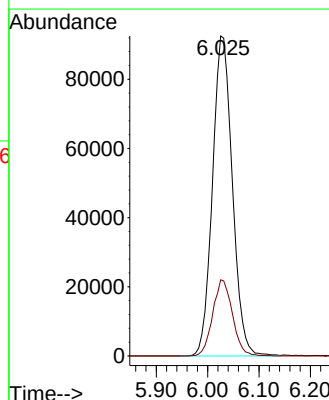
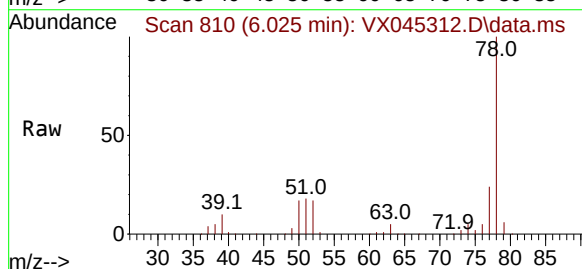
Acq: 18 Mar 2025 10:02

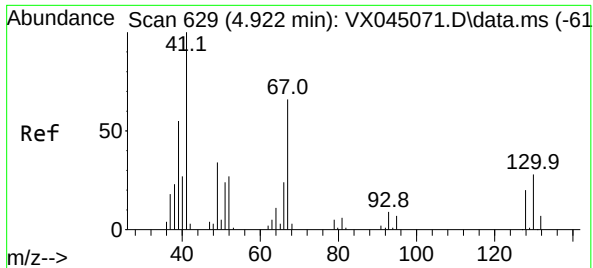
Tgt Ion: 78 Resp: 248464

Ion Ratio Lower Upper

78 100

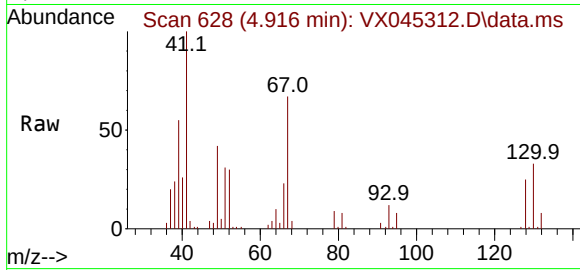
77 23.8 18.8 28.2





#41
Methacrylonitrile
Concen: 51.464 ug/l
RT: 4.916 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

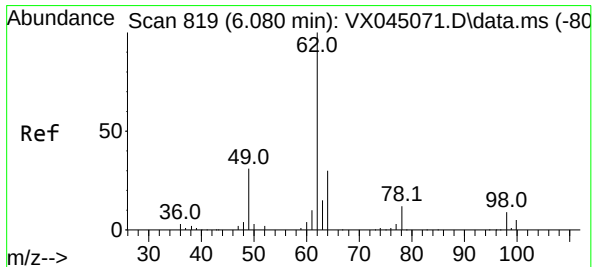
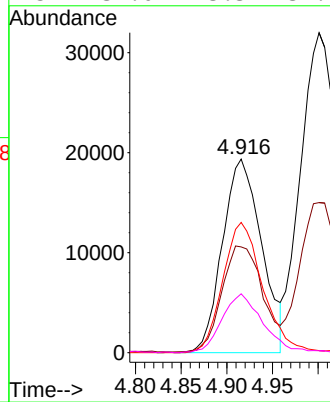
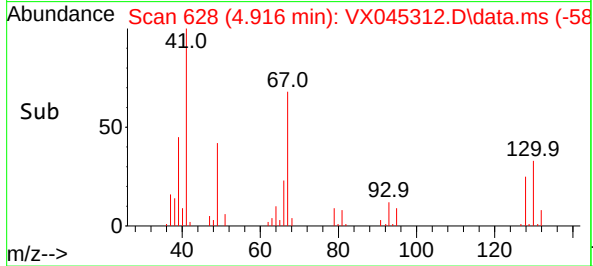
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 41 Resp: 57809
Ion Ratio Lower Upper
41 100
39 57.0 44.6 67.0
67 68.9 53.9 80.9
52 32.0 23.3 34.9

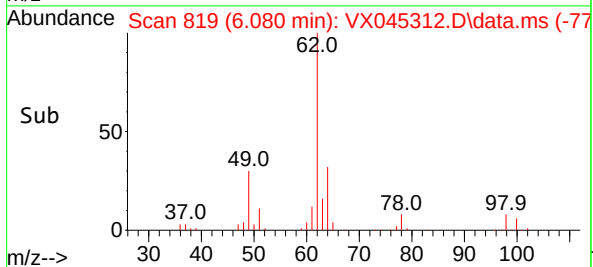
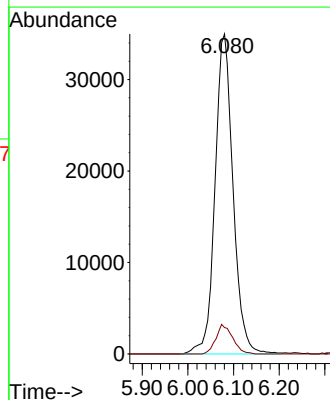
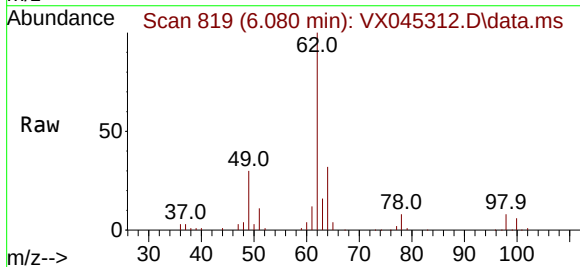
Manual Integrations
APPROVED

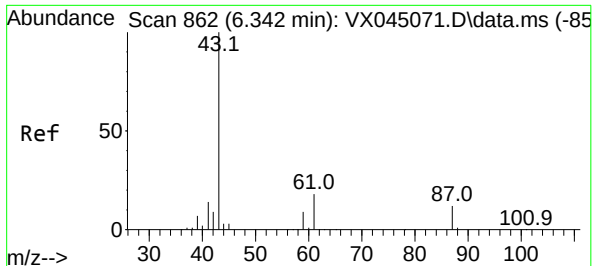
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#42
1,2-Dichloroethane
Concen: 52.239 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

Tgt Ion: 62 Resp: 95767
Ion Ratio Lower Upper
62 100
98 8.5 0.0 18.2





#43

Isopropyl Acetate

Concen: 51.656 ug/l

RT: 6.336 min Scan# 80

Delta R.T. -0.006 min

Lab File: VX045312.D

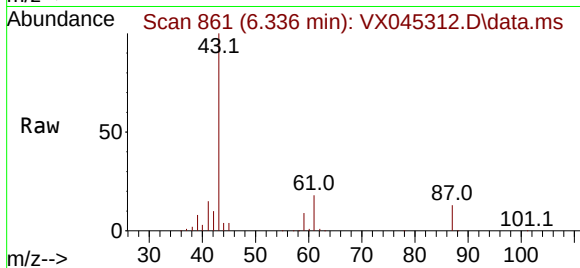
Acq: 18 Mar 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050



Tgt Ion: 43 Resp: 15868

Ion Ratio Lower Upper

43

100

61

18.3

87

11.5

14.9

9.4

22.3

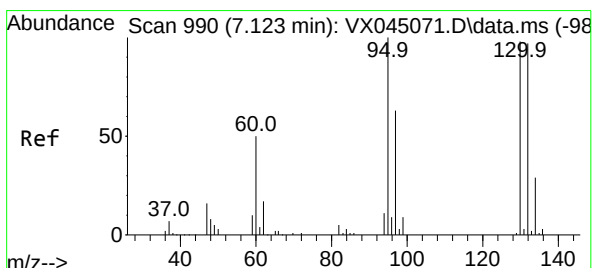
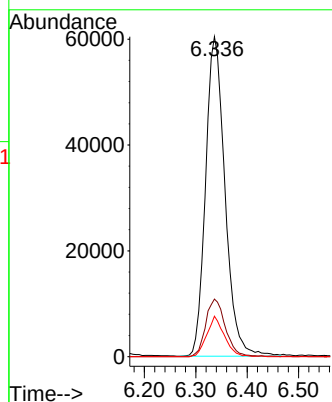
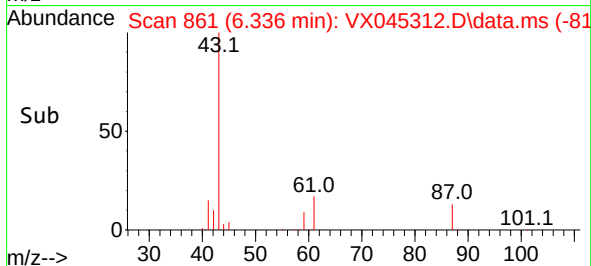
14.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#44

Trichloroethene

Concen: 48.376 ug/l

RT: 7.117 min Scan# 989

Delta R.T. -0.006 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

Tgt Ion:130 Resp: 57829

Ion Ratio Lower Upper

130

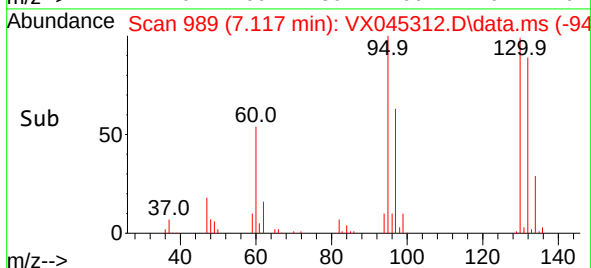
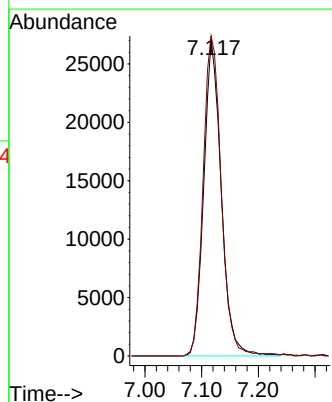
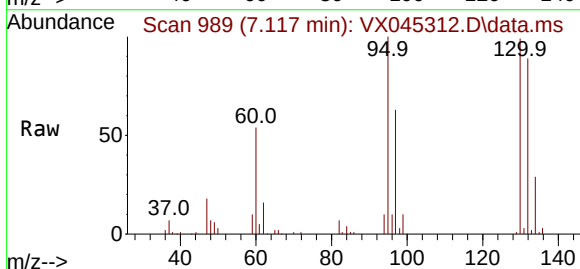
100

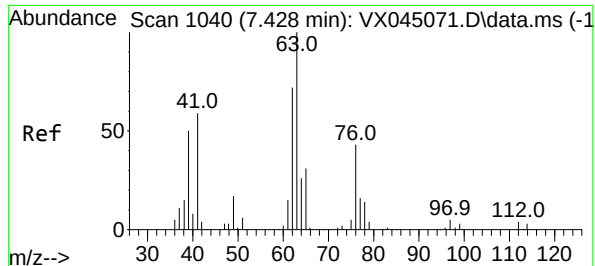
95

101.0

0.0

205.0





#45

1,2-Dichloropropane

Concen: 49.071 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 6423

Ion Ratio Lower Upper

63 100

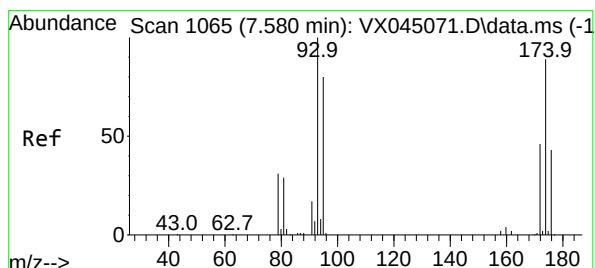
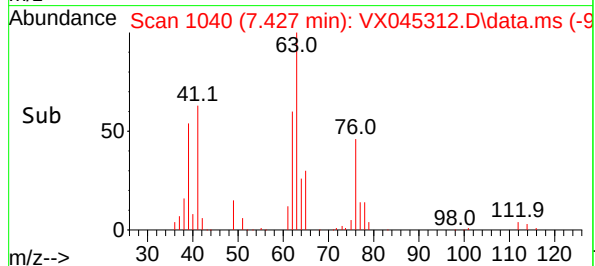
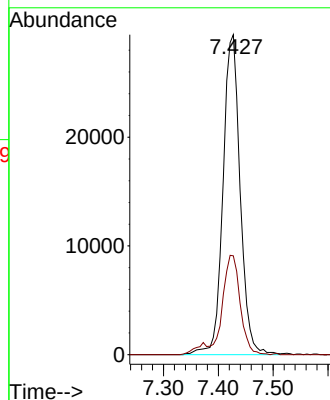
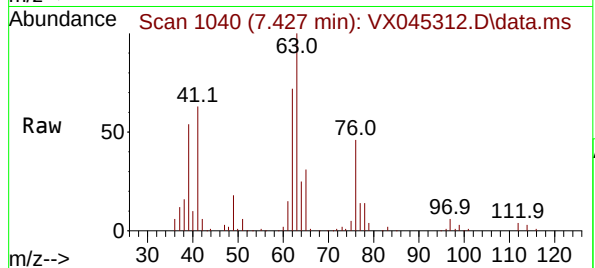
65 30.9 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#46

Dibromomethane

Concen: 51.526 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. -0.006 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

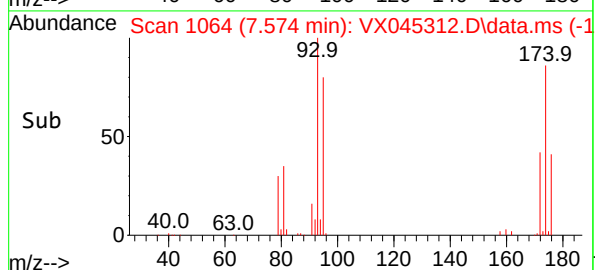
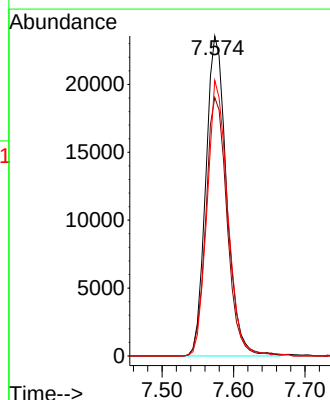
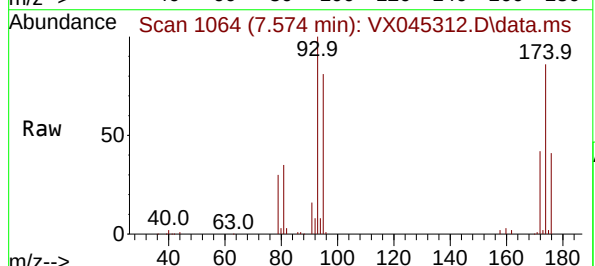
Tgt Ion: 93 Resp: 47670

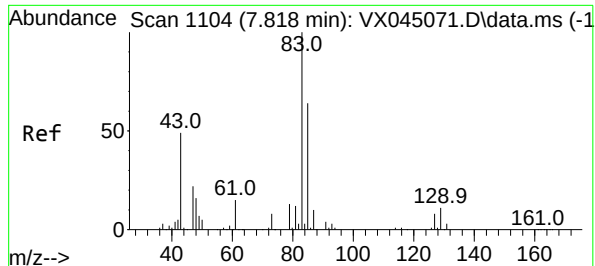
Ion Ratio Lower Upper

93 100

95 82.5 65.8 98.8

174 85.2 72.2 108.2





#47

Bromodichloromethane

Concen: 52.012 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

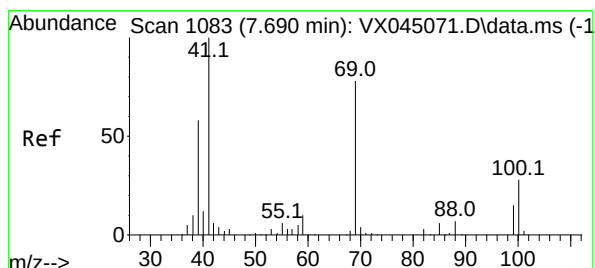
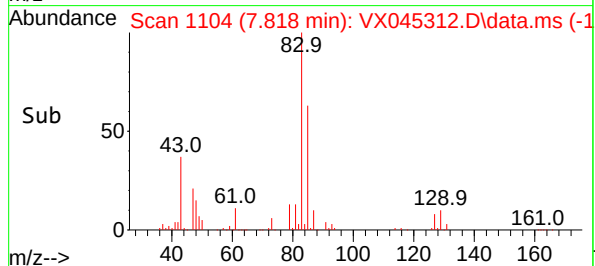
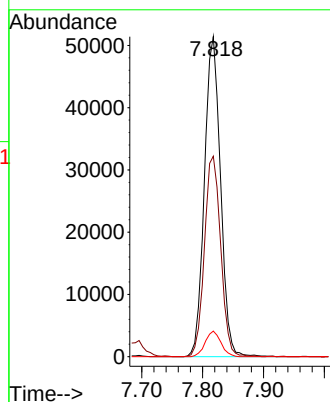
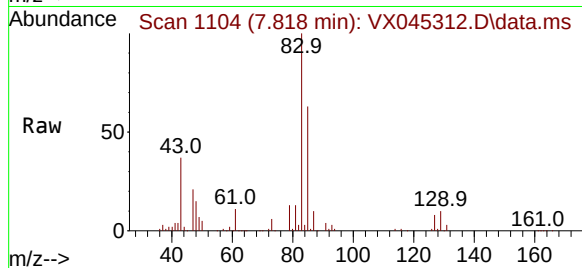
Tgt Ion: 83	Resp: 9438
Ion Ratio	Lower Upper
83 100	
85 62.6	51.1 76.7
127 8.0	6.4 9.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#48

Methyl methacrylate

Concen: 53.109 ug/l

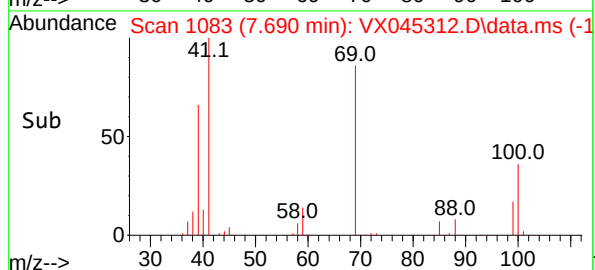
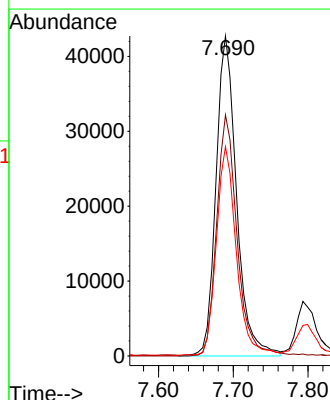
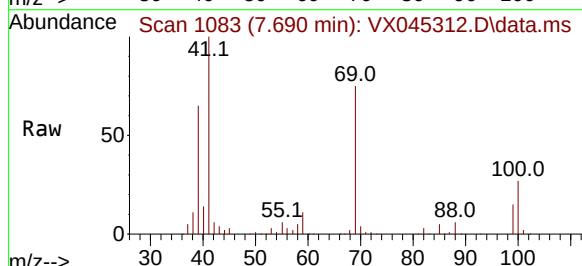
RT: 7.690 min Scan# 1083

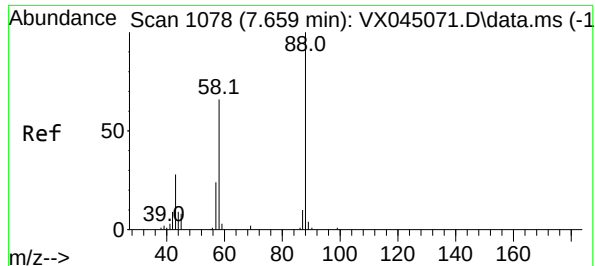
Delta R.T. -0.000 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

Tgt Ion: 41	Resp: 81849
Ion Ratio	Lower Upper
41 100	
69 75.3	63.0 94.6
39 63.4	47.5 71.3





#49

1,4-Dioxane

Concen: 907.231 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. -0.000 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 88 Resp: 2949

Ion Ratio Lower Upper

88 100

43 39.1 28.7 43.1

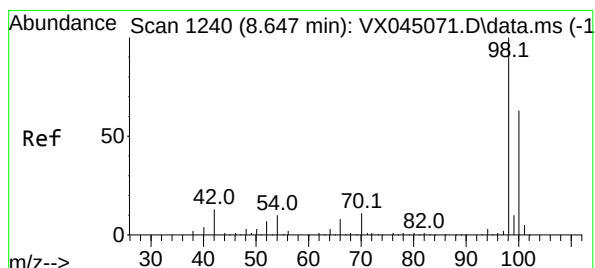
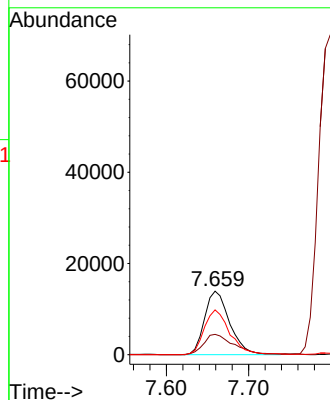
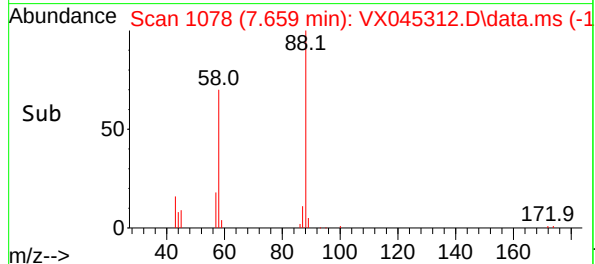
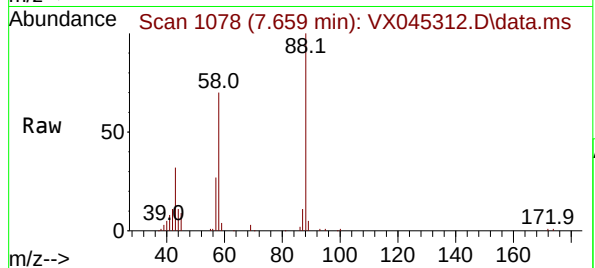
58 72.7 55.8 83.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#50

Toluene-d8

Concen: 49.996 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX045312.D

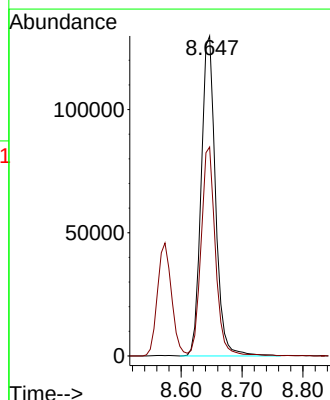
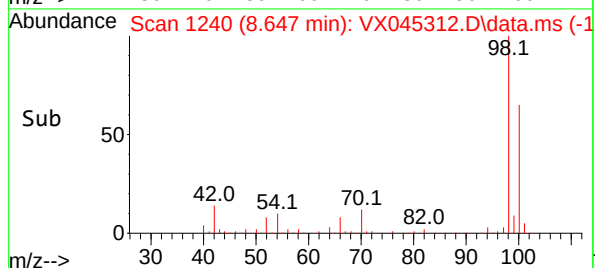
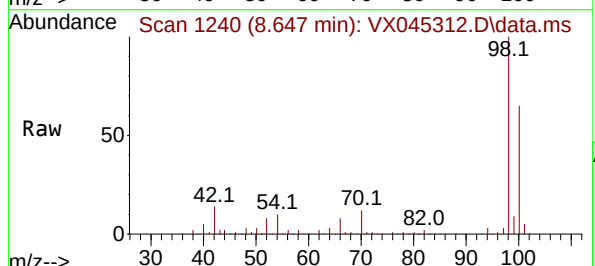
Acq: 18 Mar 2025 10:02

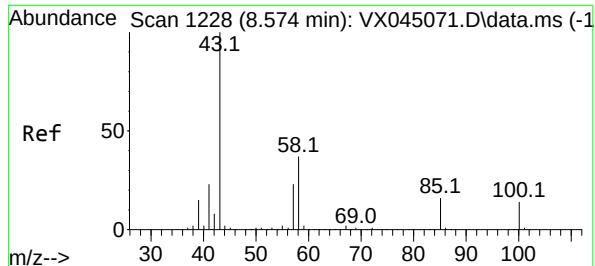
Tgt Ion: 98 Resp: 213078

Ion Ratio Lower Upper

98 100

100 65.6 52.0 78.0





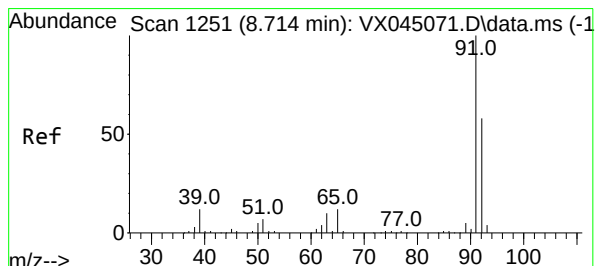
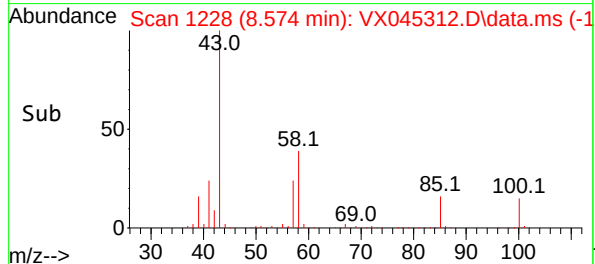
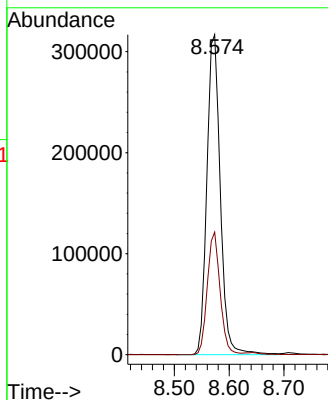
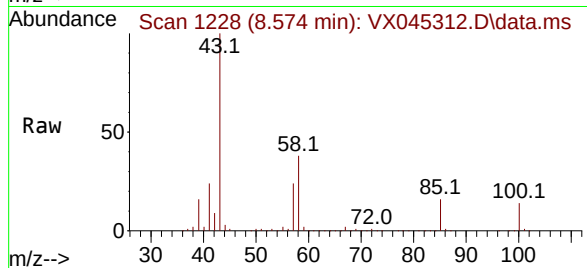
#51
4-Methyl-2-Pentanone
Concen: 259.644 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 535549
Ion Ratio Lower Upper
43 100
58 36.6 29.2 43.8

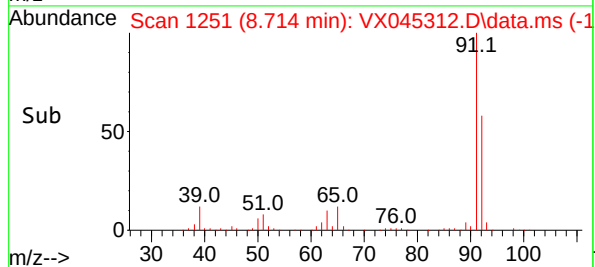
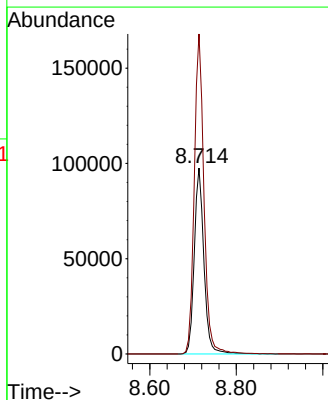
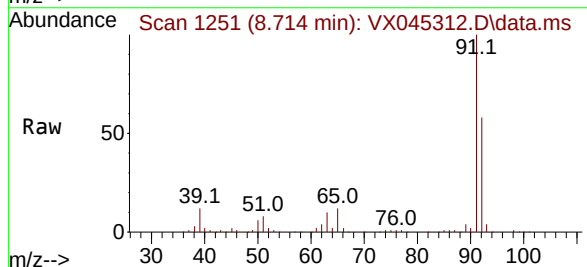
Manual Integrations
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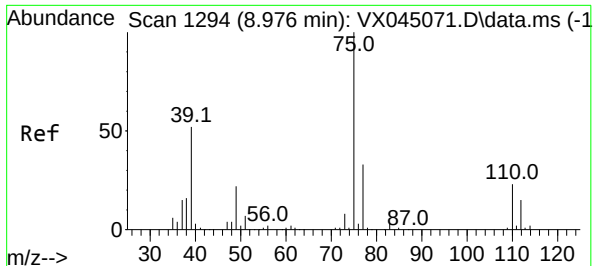
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#52
Toluene
Concen: 50.515 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

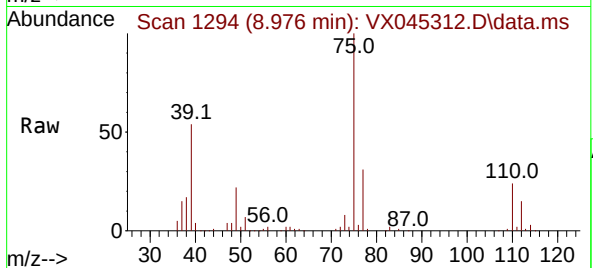
Tgt Ion: 92 Resp: 150886
Ion Ratio Lower Upper
92 100
91 172.7 138.9 208.3





#53
t-1,3-Dichloropropene
Concen: 55.465 ug/l
RT: 8.976 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

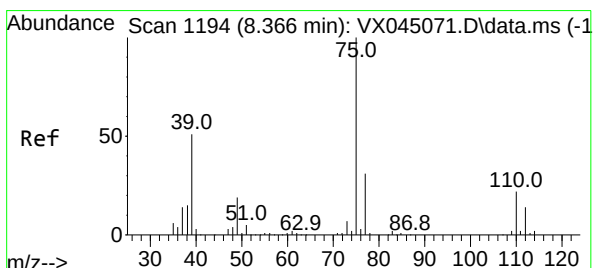
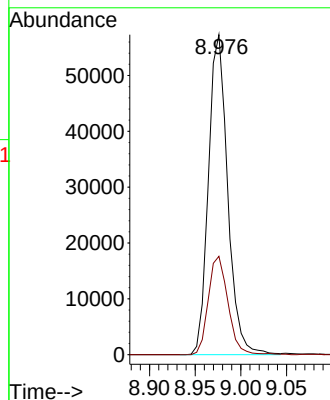
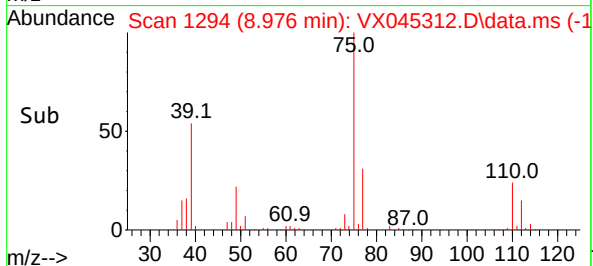
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



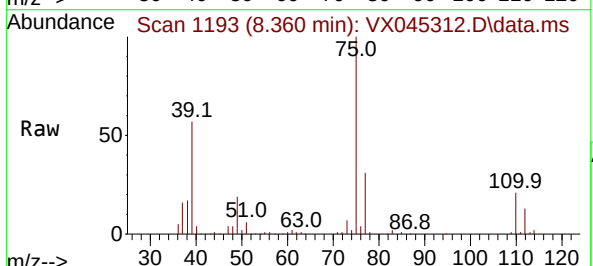
Tgt Ion: 75 Resp: 84140
Ion Ratio Lower Upper
75 100
77 30.8 26.5 39.7

Manual Integrations
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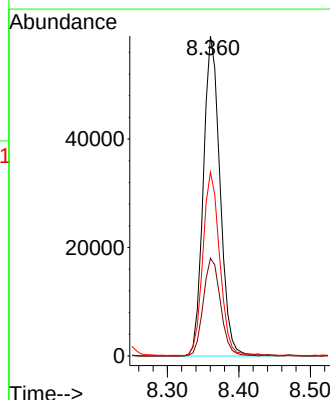
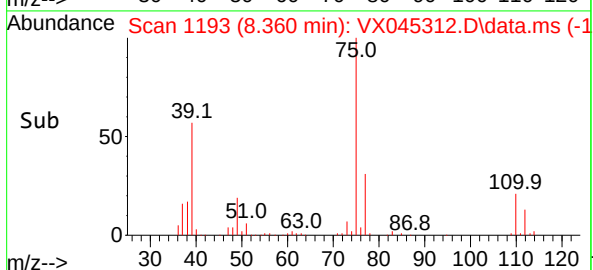
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

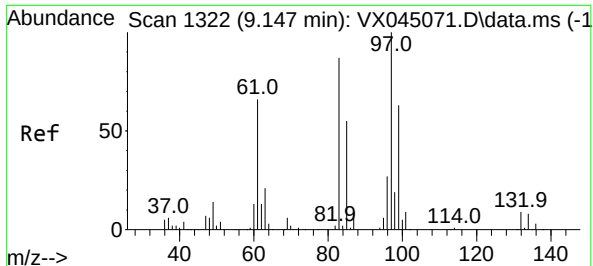


#54
cis-1,3-Dichloropropene
Concen: 54.190 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02



Tgt Ion: 75 Resp: 95867
Ion Ratio Lower Upper
75 100
77 30.5 24.7 37.1
39 57.3 40.7 61.1





#55

1,1,2-Trichloroethane

Concen: 50.360 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. -0.000 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 97 Resp: 61925

Ion Ratio Lower Upper

97 100

83 88.3 69.4 104.2

85 58.5 44.1 66.1

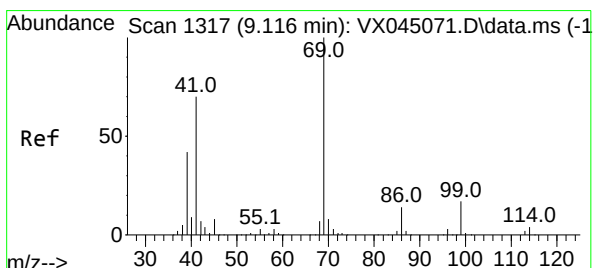
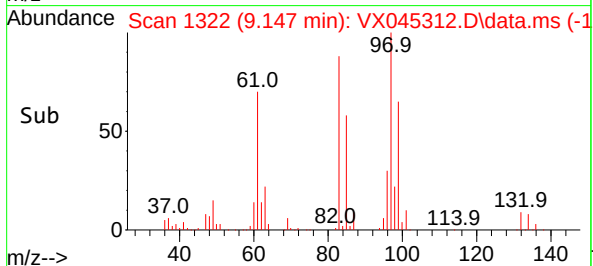
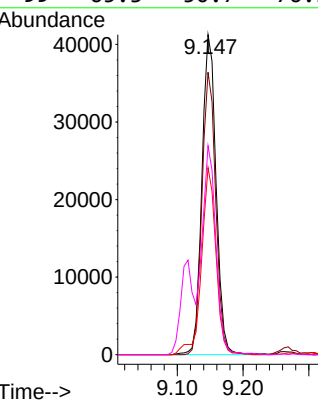
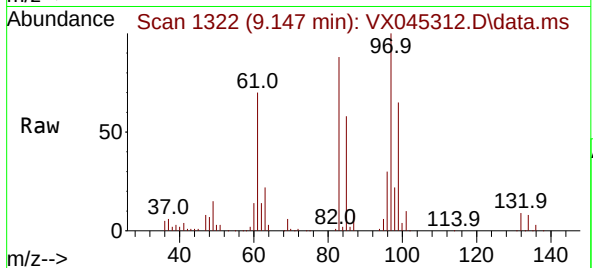
99 65.3 50.7 76.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#56

Ethyl methacrylate

Concen: 53.664 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

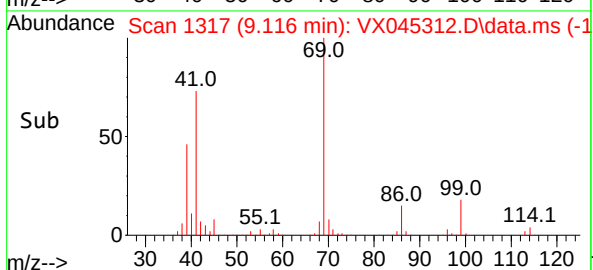
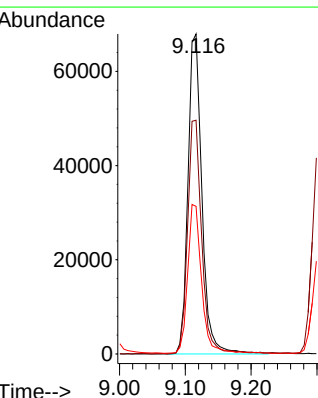
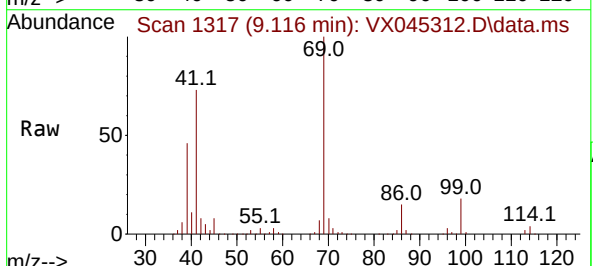
Tgt Ion: 69 Resp: 100306

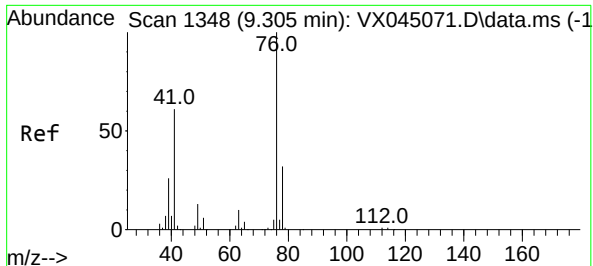
Ion Ratio Lower Upper

69 100

41 74.1 57.0 85.4

39 46.7 34.2 51.4





#57

1,3-Dichloropropane

Concen: 50.198 ug/l

RT: 9.305 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 10682

Ion Ratio Lower Upper

76 100

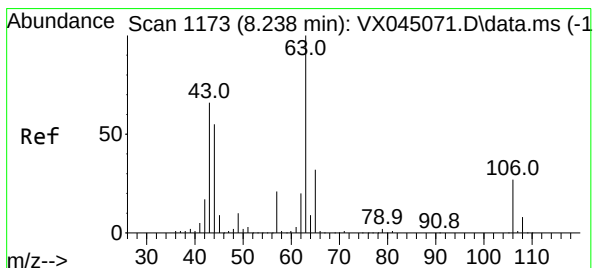
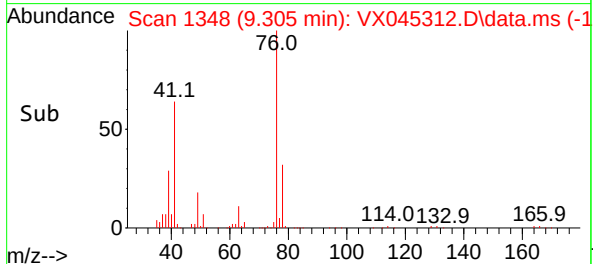
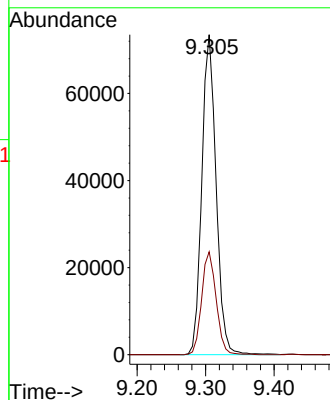
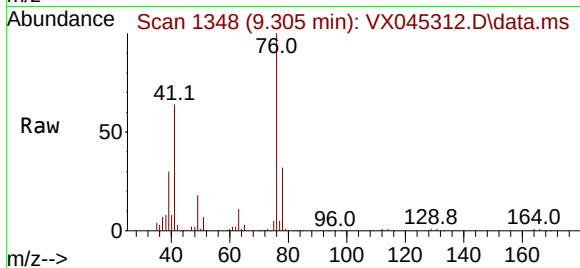
78 32.6 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#58

2-Chloroethyl Vinyl ether

Concen: 290.649 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX045312.D

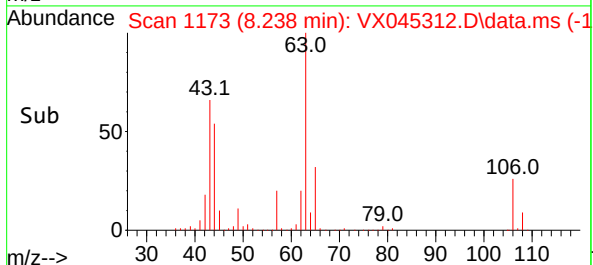
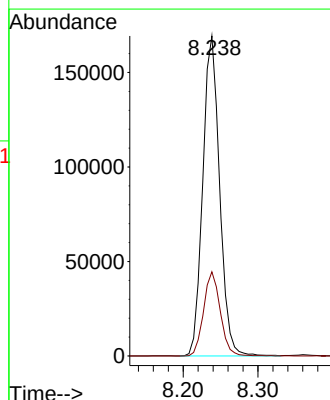
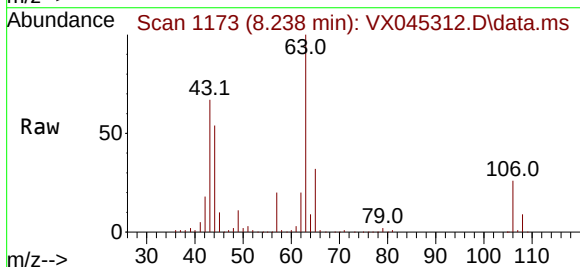
Acq: 18 Mar 2025 10:02

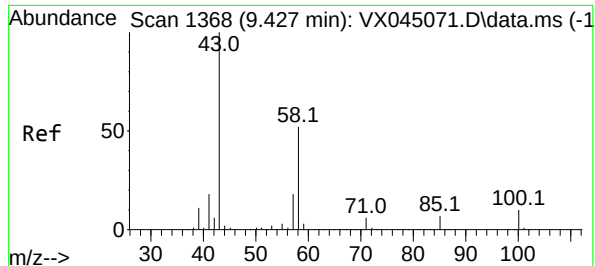
Tgt Ion: 63 Resp: 265011

Ion Ratio Lower Upper

63 100

106 26.0 21.5 32.3





#59

2-Hexanone

Concen: 263.820 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.000 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 394260

Ion Ratio Lower Upper

43 100

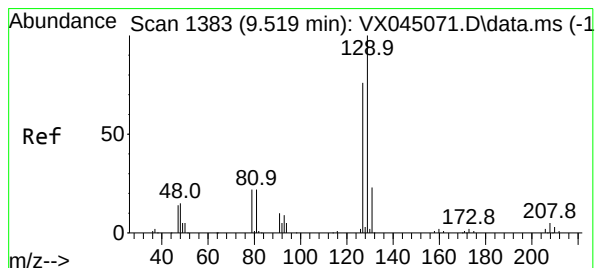
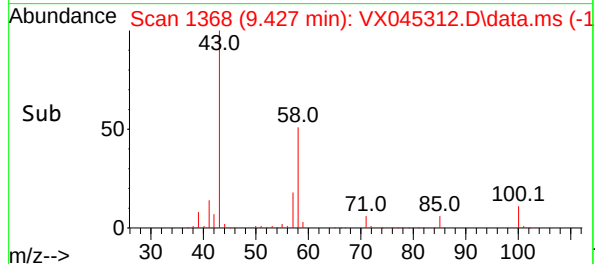
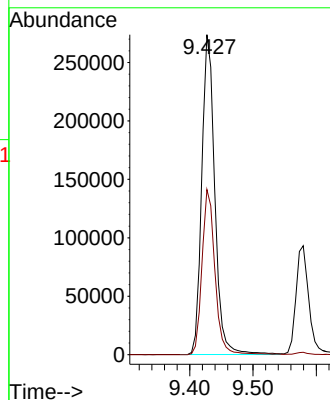
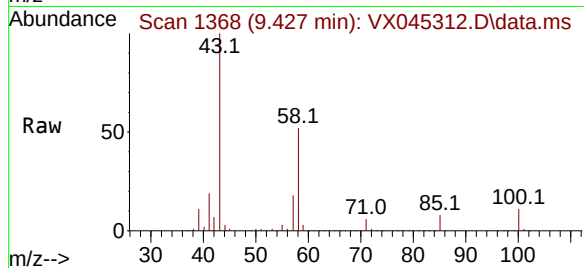
58 51.3 25.9 77.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#60

Dibromochloromethane

Concen: 53.043 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX045312.D

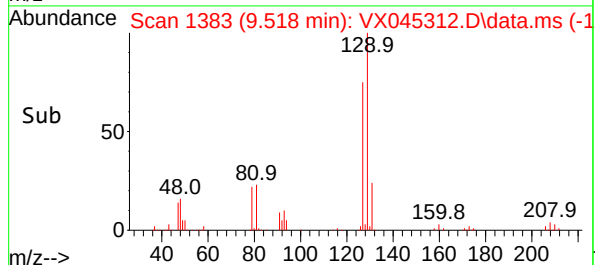
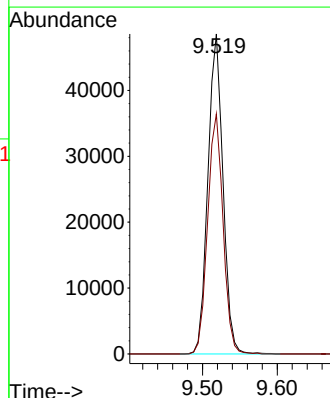
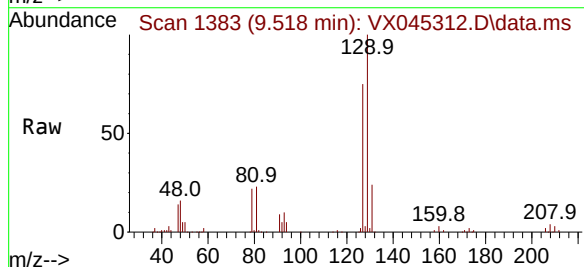
Acq: 18 Mar 2025 10:02

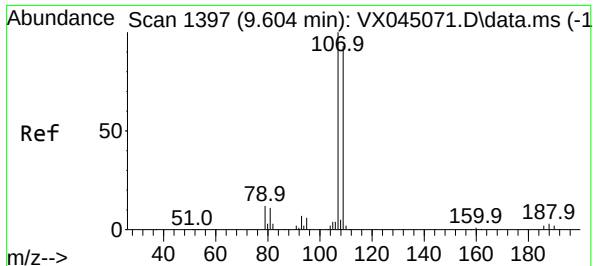
Tgt Ion:129 Resp: 68198

Ion Ratio Lower Upper

129 100

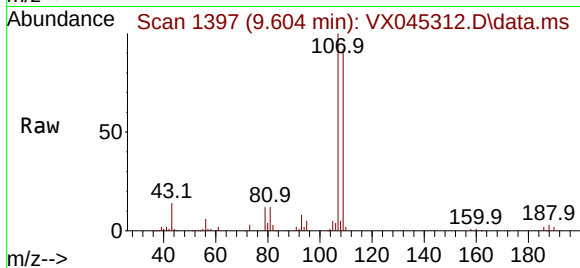
127 76.5 38.5 115.5





#61
1,2-Dibromoethane
Concen: 50.415 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

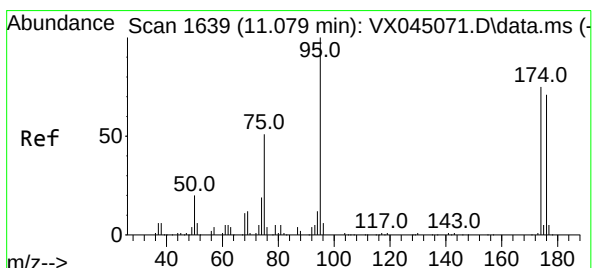
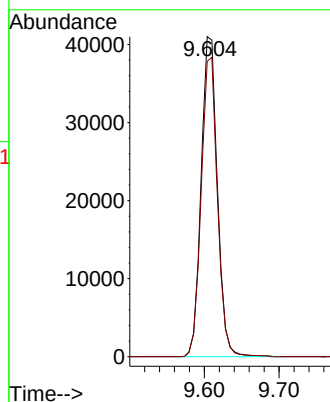
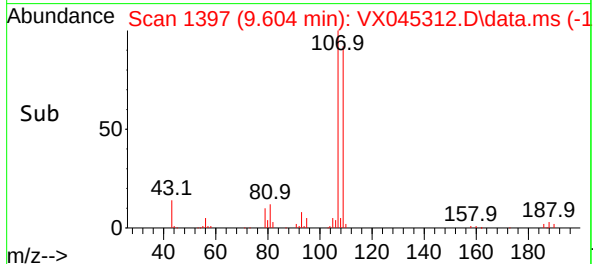
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:107 Resp: 6188
Ion Ratio Lower Upper
107 100
109 93.5 76.1 114.1

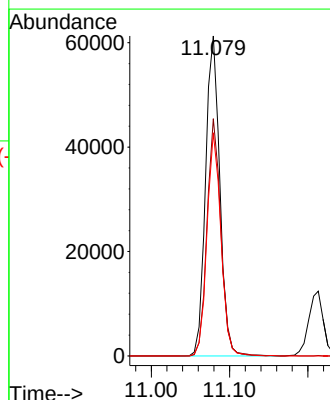
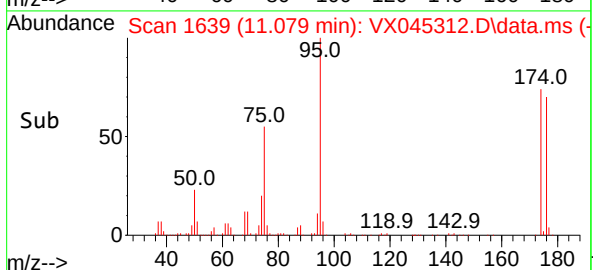
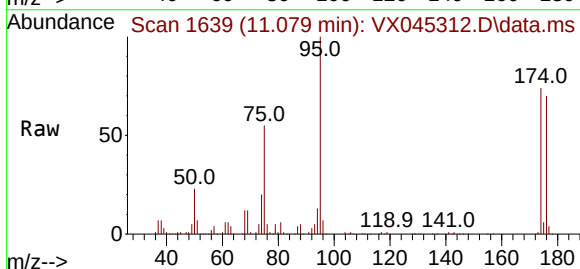
Manual Integrations
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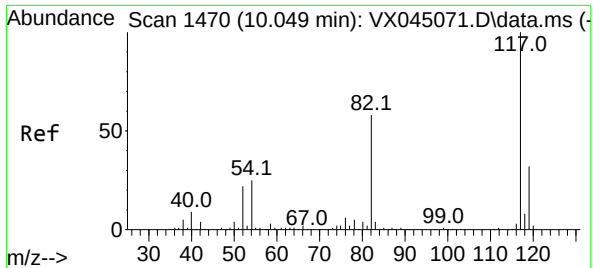
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#62
4-Bromofluorobenzene
Concen: 54.557 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

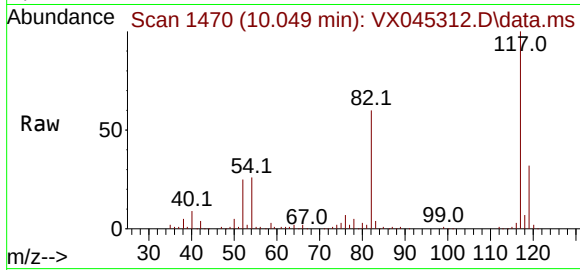
Tgt Ion: 95 Resp: 77049
Ion Ratio Lower Upper
95 100
174 72.3 0.0 148.2
176 68.3 0.0 141.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

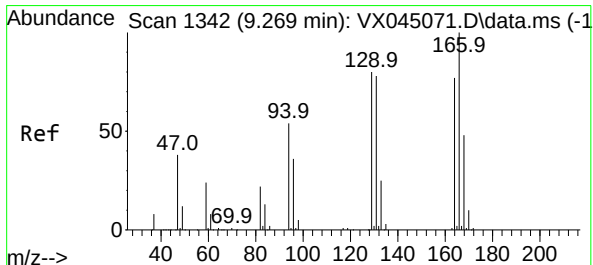
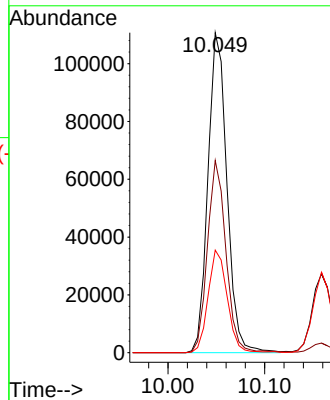
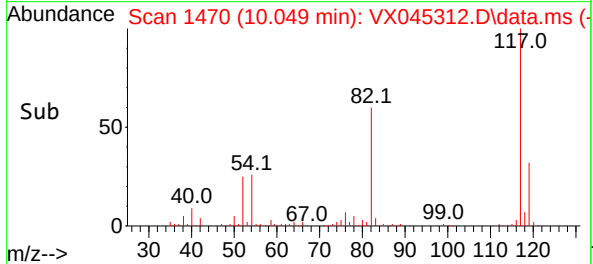
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:117 Resp: 151379
Ion Ratio Lower Upper
117 100
82 60.0 46.3 69.5
119 32.0 25.7 38.5

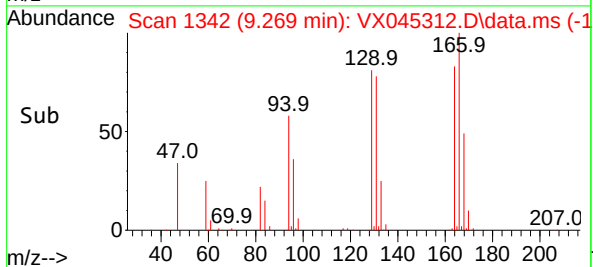
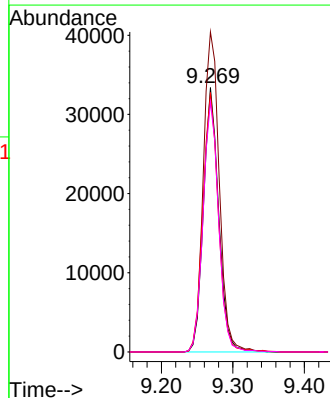
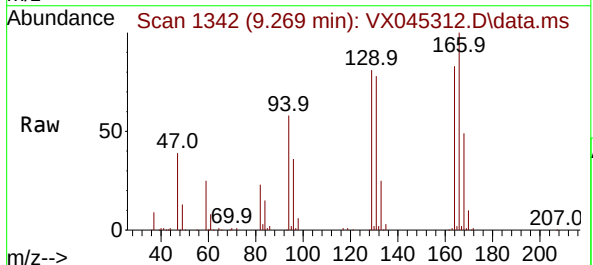
Manual Integrations
APPROVED

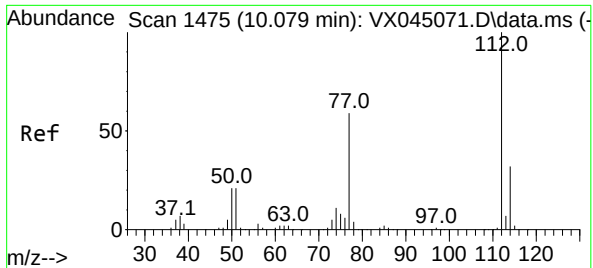
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#64
Tetrachloroethene
Concen: 51.098 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

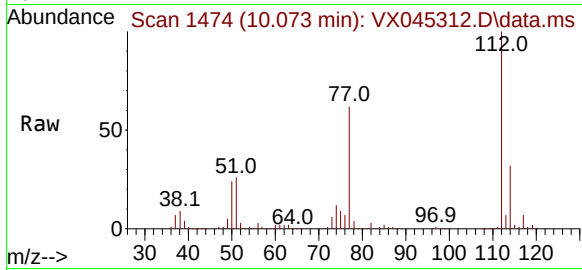
Tgt Ion:164 Resp: 49539
Ion Ratio Lower Upper
164 100
166 121.1 103.6 155.4
129 98.2 82.7 124.1
131 94.5 80.5 120.7





#65
Chlorobenzene
Concen: 50.822 ug/l
RT: 10.073 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

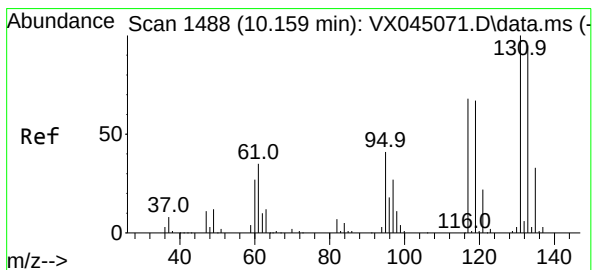
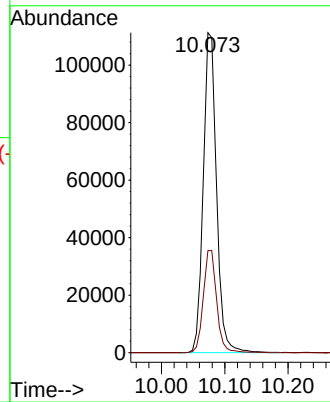
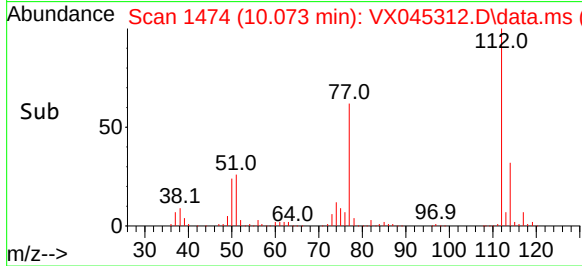
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:112 Resp: 162780
Ion Ratio Lower Upper
112 100
114 31.9 26.0 39.0

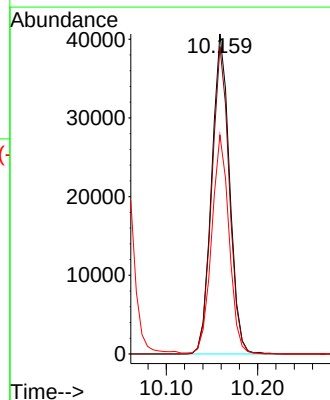
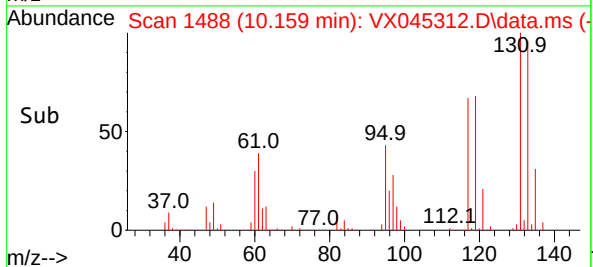
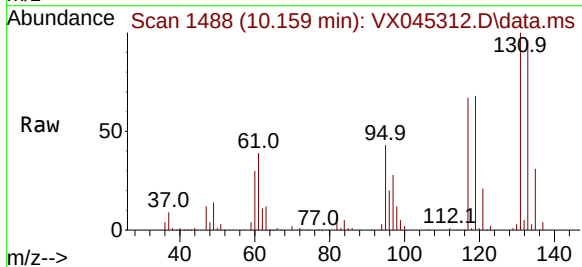
Manual Integrations
APPROVED

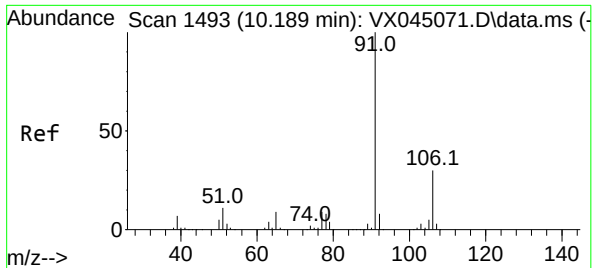
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 51.552 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

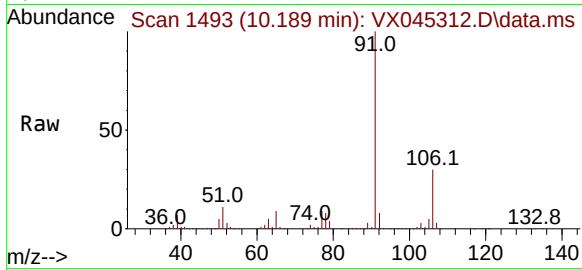
Tgt Ion:131 Resp: 54990
Ion Ratio Lower Upper
131 100
133 94.6 48.6 145.9
119 66.7 33.9 101.7





#67
Ethyl Benzene
Concen: 51.743 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

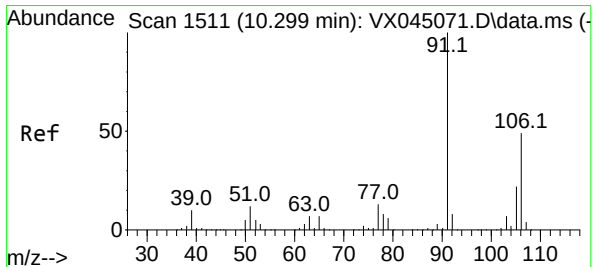
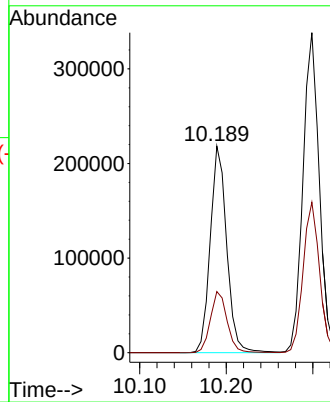
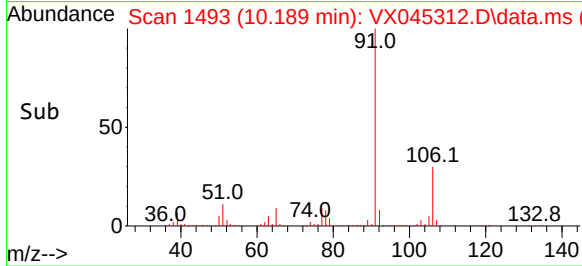
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 91 Resp: 288783
Ion Ratio Lower Upper
91 100
106 29.6 23.9 35.9

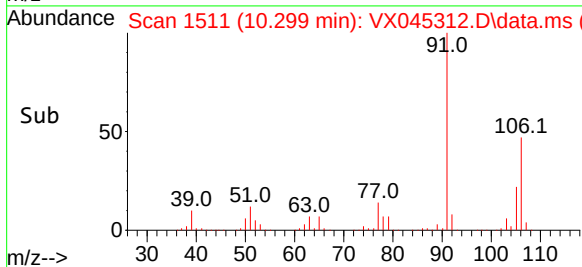
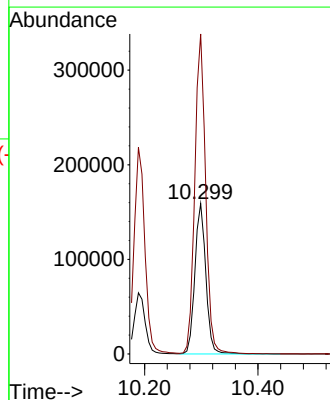
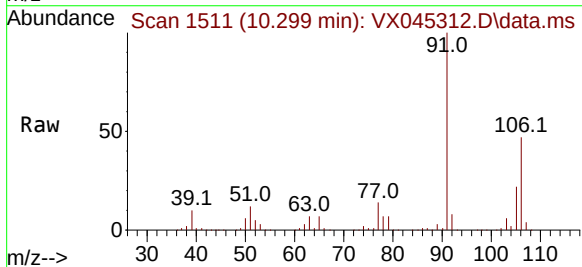
Manual Integrations
APPROVED

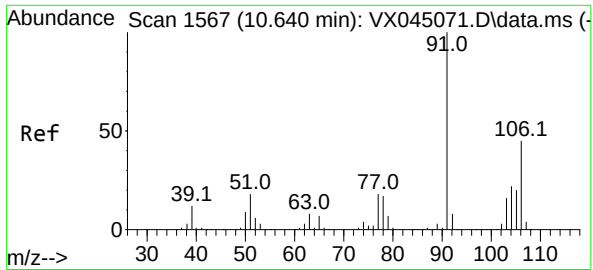
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#68
m/p-Xylenes
Concen: 104.167 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

Tgt Ion:106 Resp: 212826
Ion Ratio Lower Upper
106 100
91 210.5 165.4 248.0





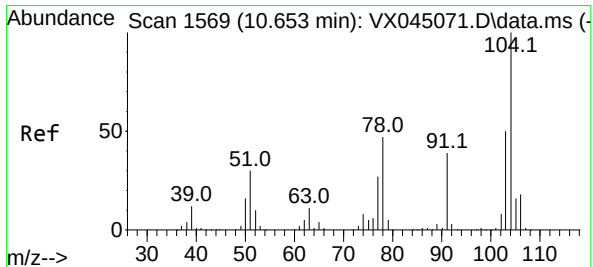
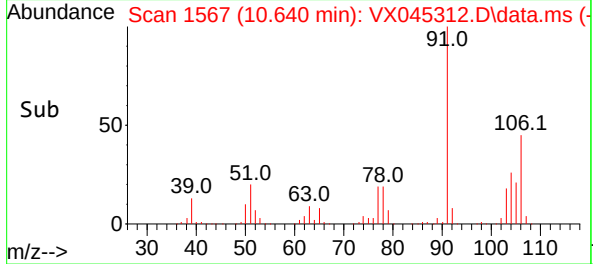
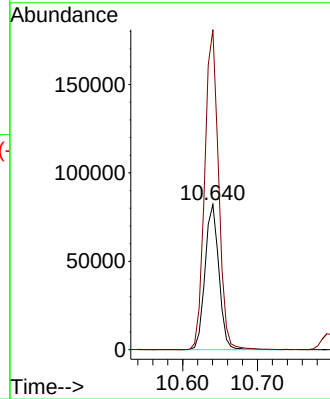
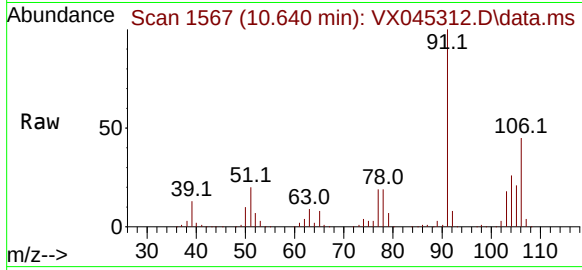
#69
o-Xylene
Concen: 51.291 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 105690
Ion Ratio Lower Upper
106 100
91 220.8 109.9 329.6

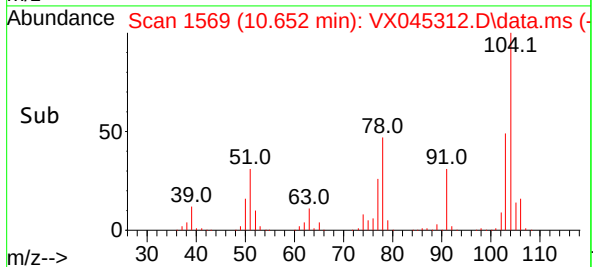
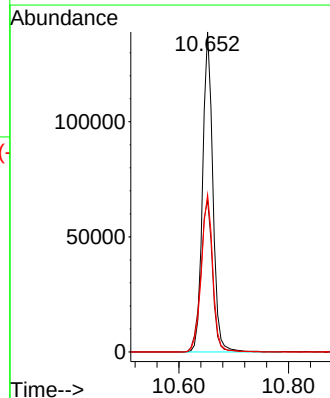
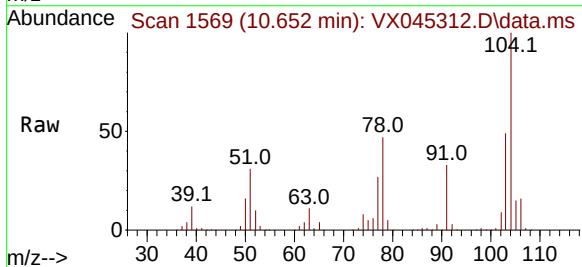
Manual Integrations
APPROVED

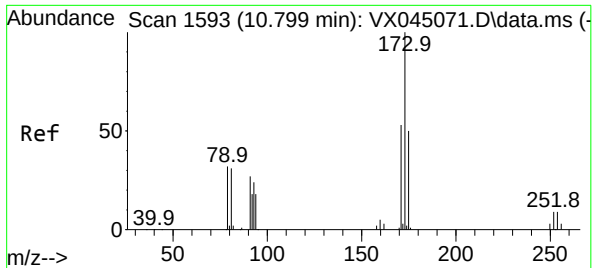
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#70
Styrene
Concen: 54.166 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

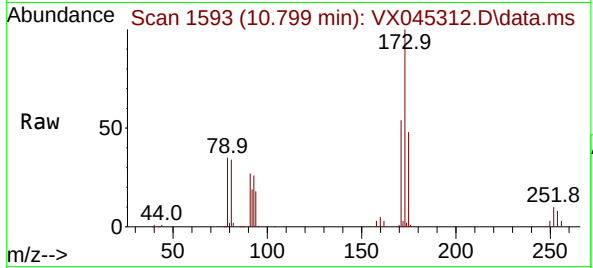
Tgt Ion:104 Resp: 180599
Ion Ratio Lower Upper
104 100
78 54.4 42.2 63.4
103 55.0 43.8 65.8





#71
Bromoform
Concen: 54.084 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

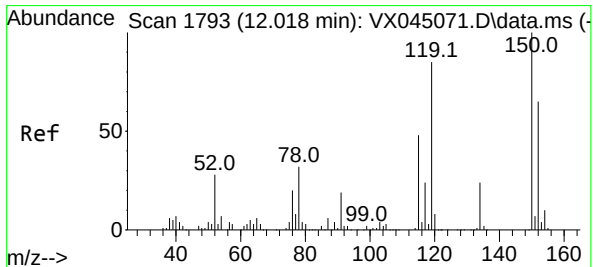
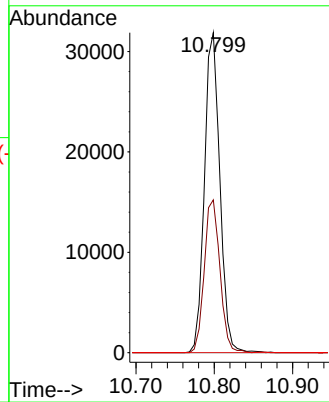
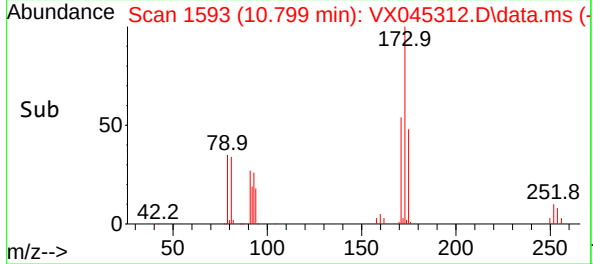
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:173 Resp: 43504
Ion Ratio Lower Upper
173 100
175 48.6 24.6 73.6
254 0.0 0.0 0.0

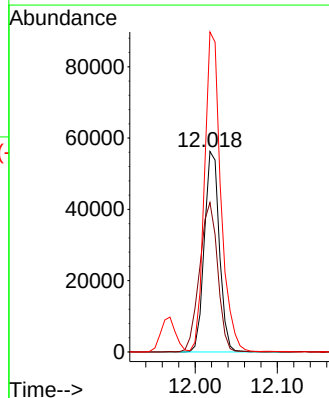
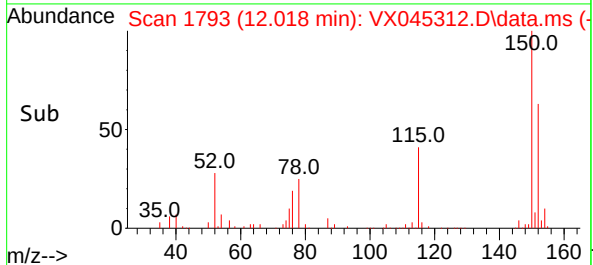
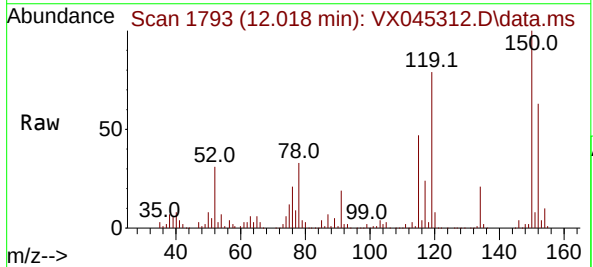
Manual Integrations
APPROVED

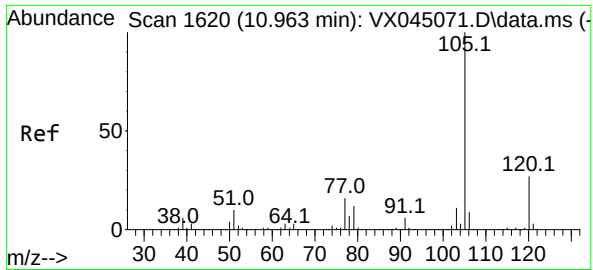
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

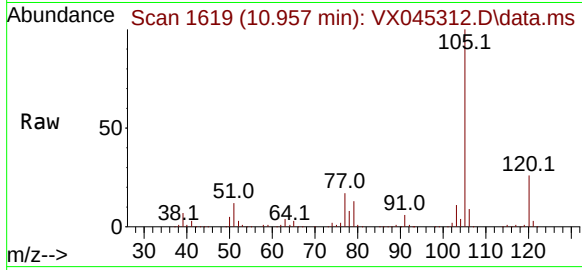
Tgt Ion:152 Resp: 71356
Ion Ratio Lower Upper
152 100
115 89.8 44.2 132.6
150 173.0 0.0 349.0





#73
Isopropylbenzene
Concen: 50.023 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.006 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

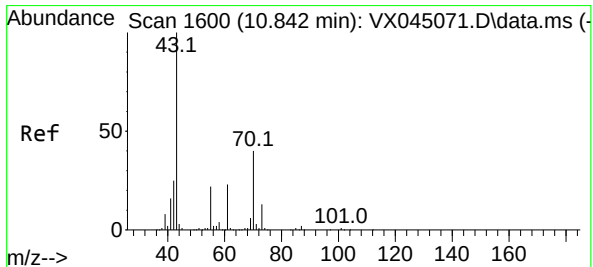
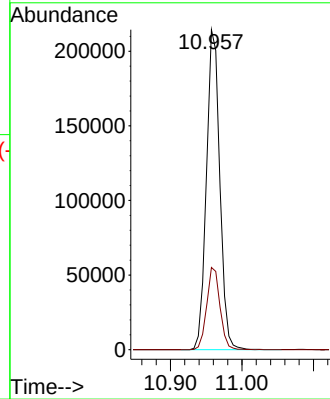
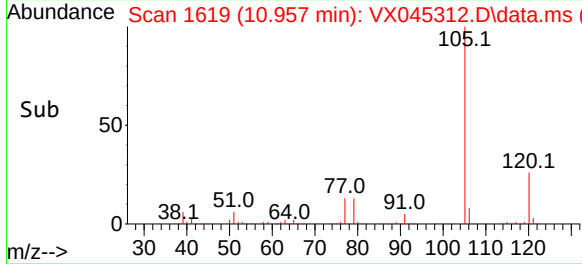
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:105 Resp: 278600
Ion Ratio Lower Upper
105 100
120 25.5 13.2 39.5

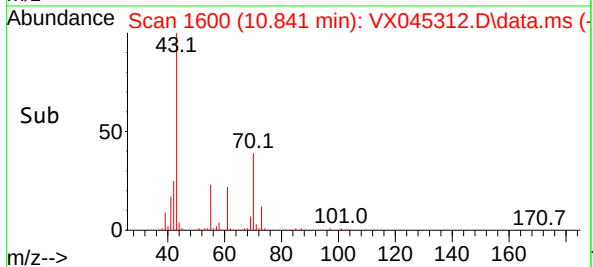
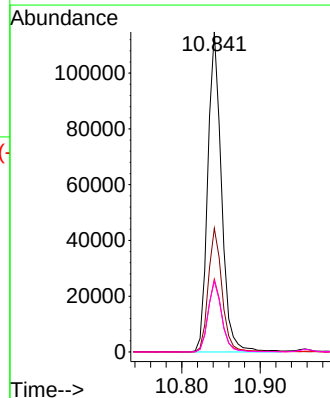
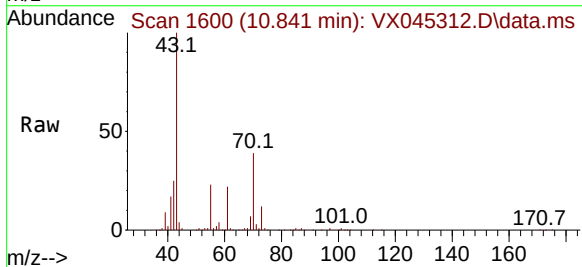
Manual Integrations
APPROVED

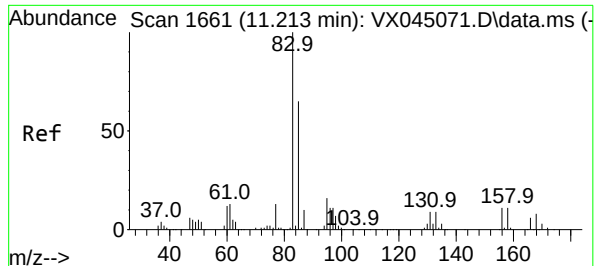
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#74
N-ethyl acetate
Concen: 53.226 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

Tgt Ion: 43 Resp: 139101
Ion Ratio Lower Upper
43 100
70 38.5 31.8 47.6
55 22.9 18.3 27.5
61 22.1 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 48.809 ug/l

RT: 11.207 min Scan# 1660

Delta R.T. -0.006 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 99750

Ion Ratio Lower Upper

83 100

131 9.5 4.5 13.4

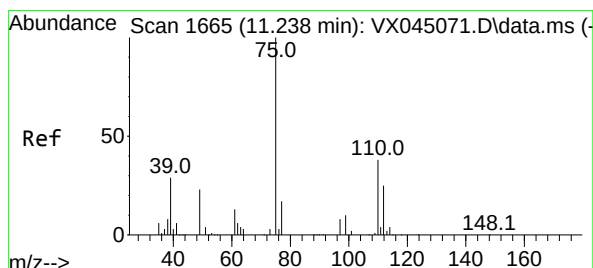
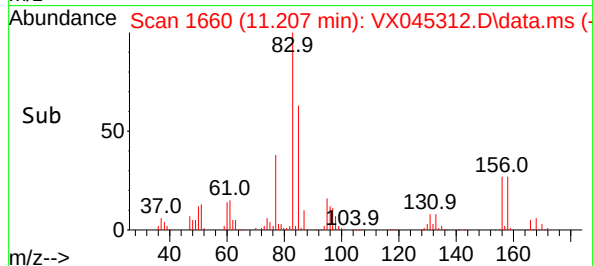
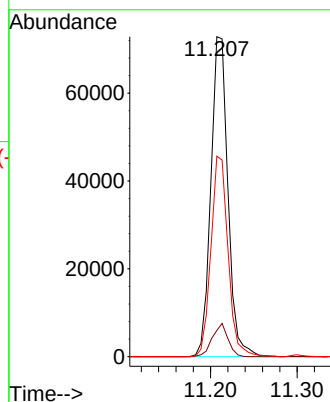
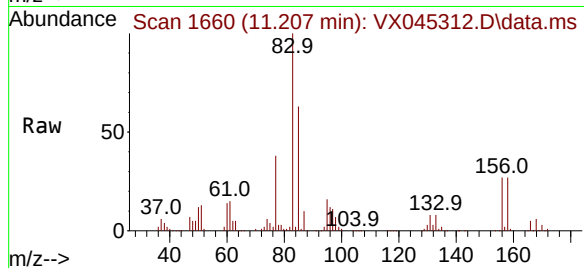
85 62.9 31.7 95.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#76

1,2,3-Trichloropropane

Concen: 49.055 ug/l m

RT: 11.238 min Scan# 1665

Delta R.T. -0.000 min

Lab File: VX045312.D

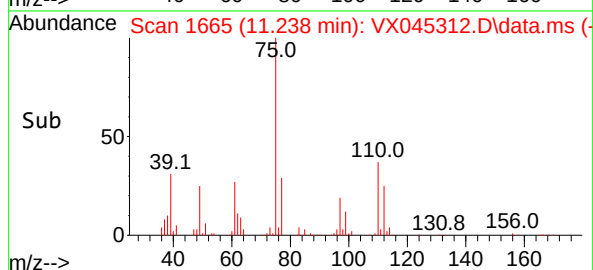
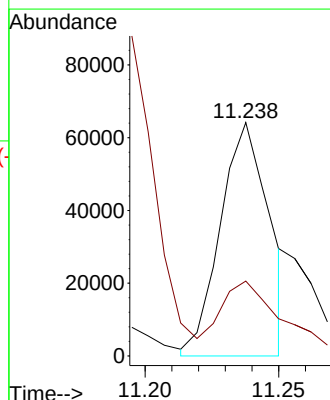
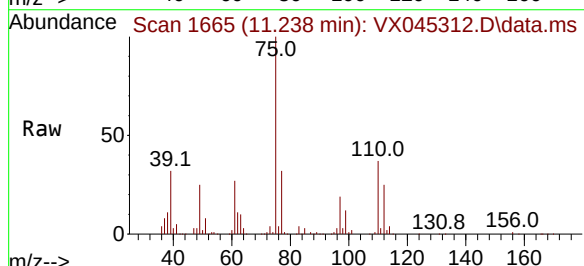
Acq: 18 Mar 2025 10:02

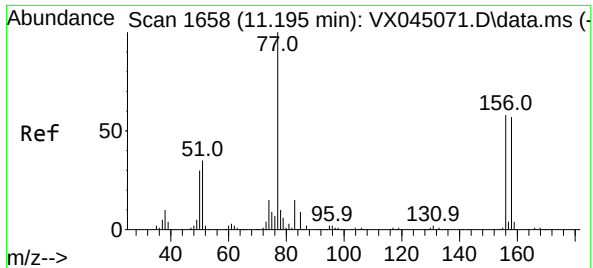
Tgt Ion: 75 Resp: 81471

Ion Ratio Lower Upper

75 100

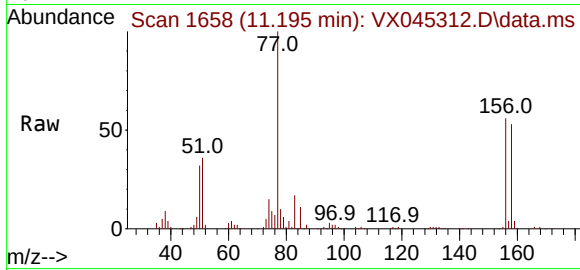
77 41.5 20.7 62.1





#77
Bromobenzene
Concen: 49.150 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

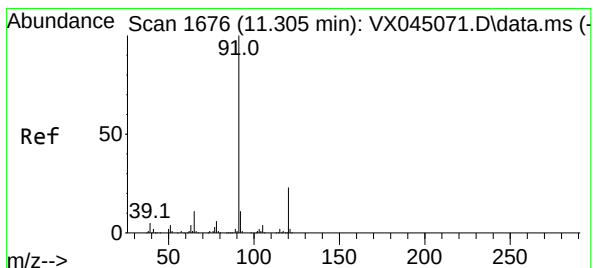
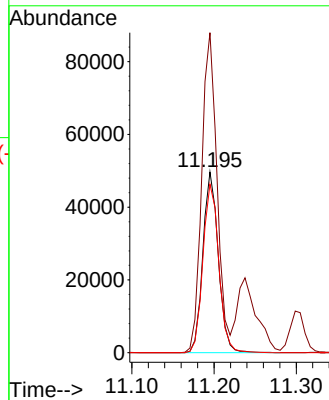
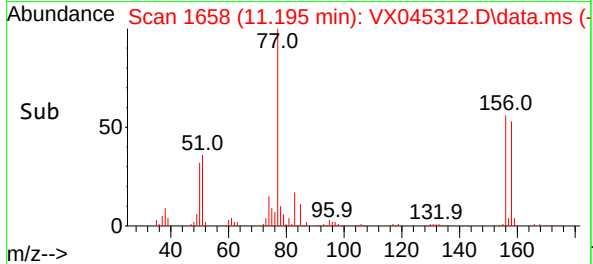
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:156 Resp: 64588
Ion Ratio Lower Upper
156 100
77 176.3 85.8 257.4
158 96.1 48.4 145.2

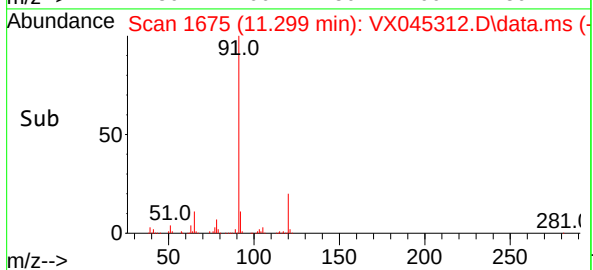
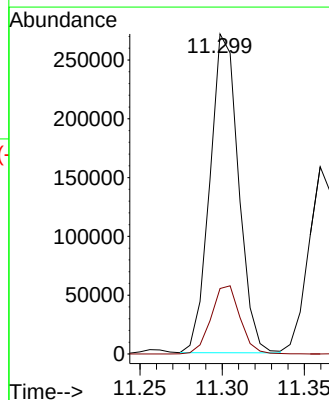
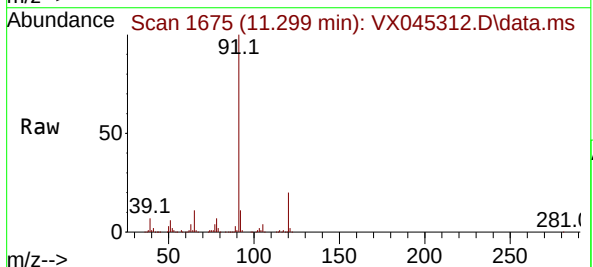
Manual Integrations
APPROVED

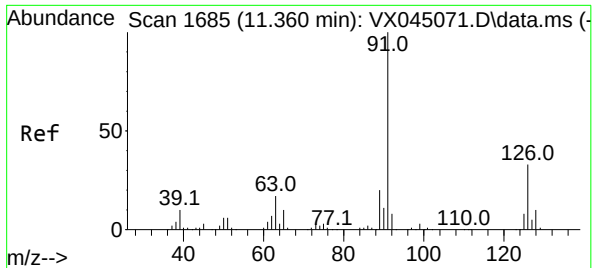
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#78
n-propylbenzene
Concen: 52.338 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

Tgt Ion: 91 Resp: 329285
Ion Ratio Lower Upper
91 100
120 21.6 11.2 33.6





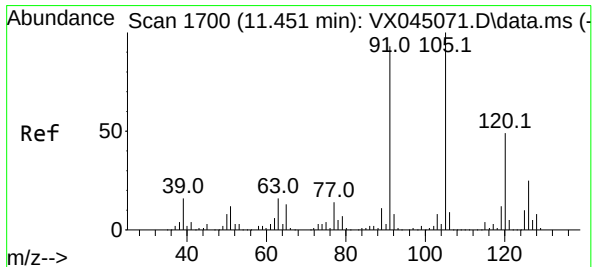
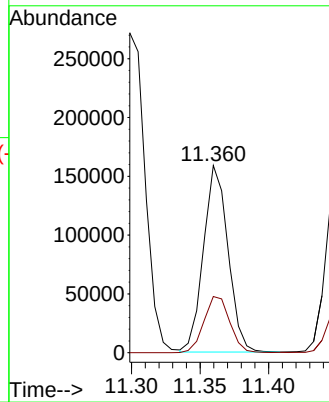
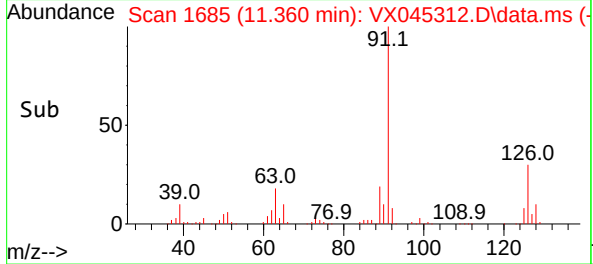
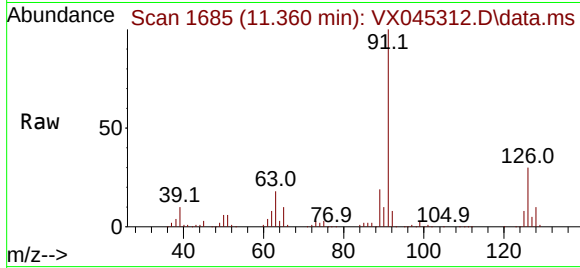
#79
2-Chlorotoluene
Concen: 49.301 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 19754
Ion Ratio Lower Upper
91 100
126 31.8 16.4 49.4

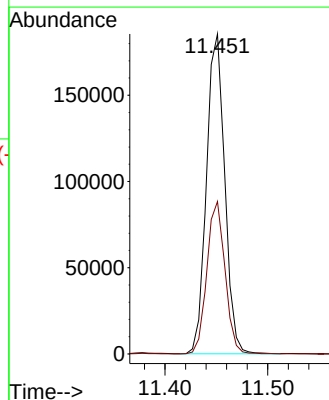
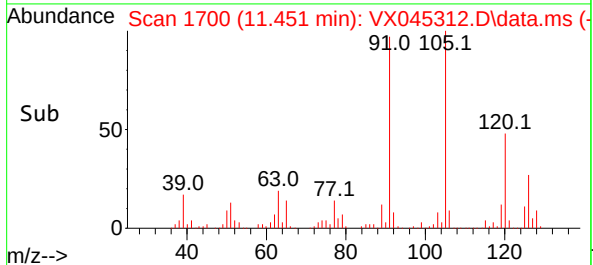
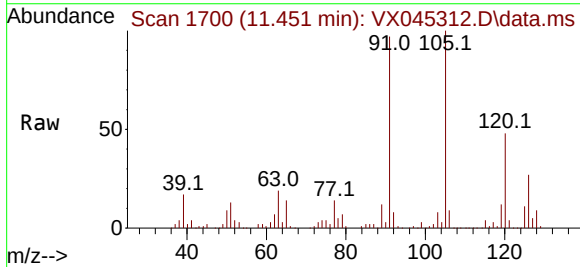
Manual Integrations
APPROVED

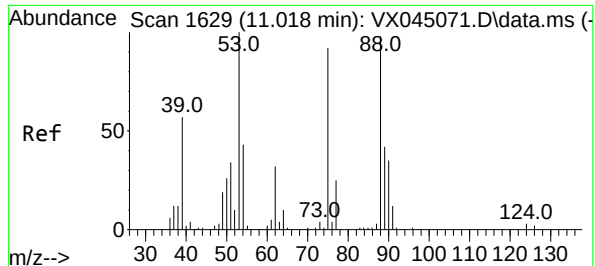
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#80
1,3,5-Trimethylbenzene
Concen: 50.984 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

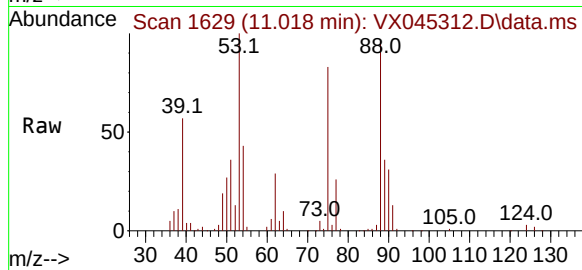
Tgt Ion:105 Resp: 229603
Ion Ratio Lower Upper
105 100
120 47.6 24.1 72.2





#81
trans-1,4-Dichloro-2-butene
Concen: 53.737 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

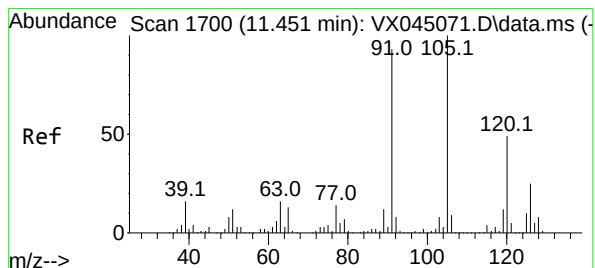
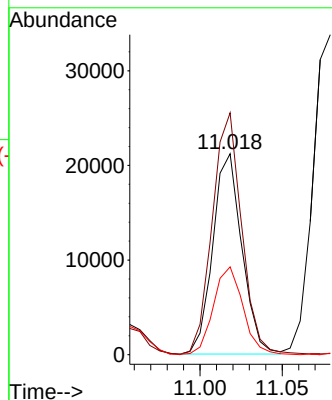
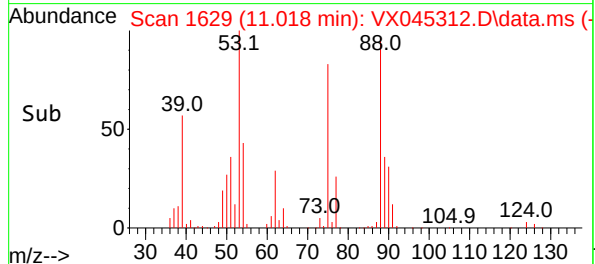
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



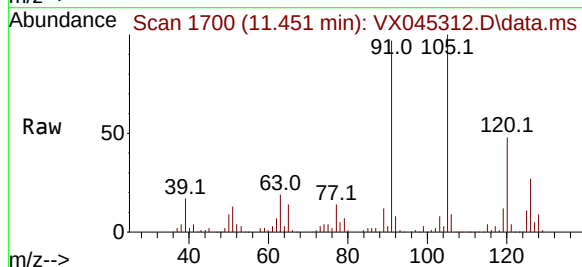
Tgt Ion: 75 Resp: 26079
Ion Ratio Lower Upper
75 100
53 122.5 88.5 132.7
89 44.5 36.2 54.4

Manual Integrations
APPROVED

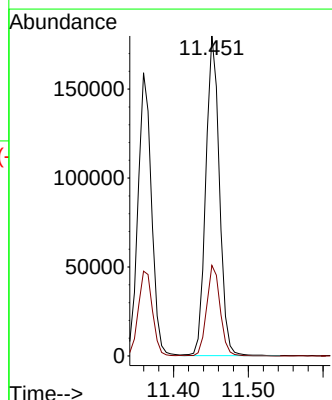
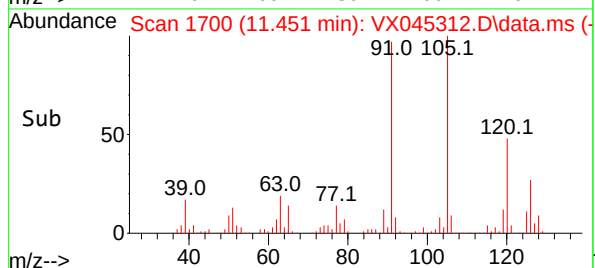
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

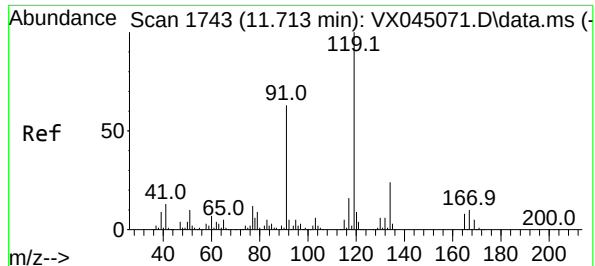


#82
4-Chlorotoluene
Concen: 51.902 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02



Tgt Ion: 91 Resp: 226650
Ion Ratio Lower Upper
91 100
126 28.2 14.1 42.4





#83

tert-Butylbenzene

Concen: 50.249 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:119 Resp: 23250

Ion Ratio Lower Upper

119 100

91 61.8 30.7 92.1

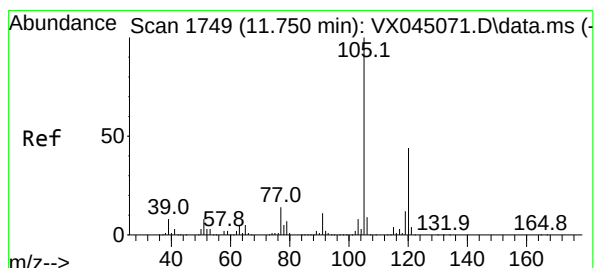
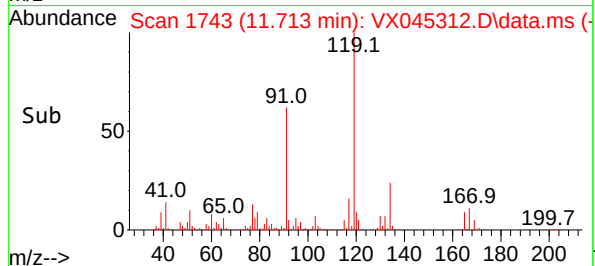
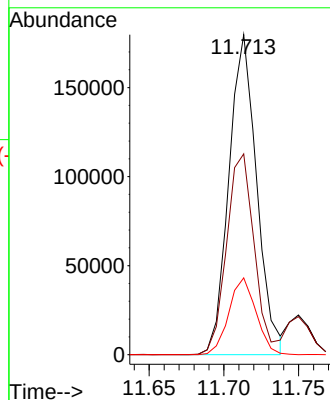
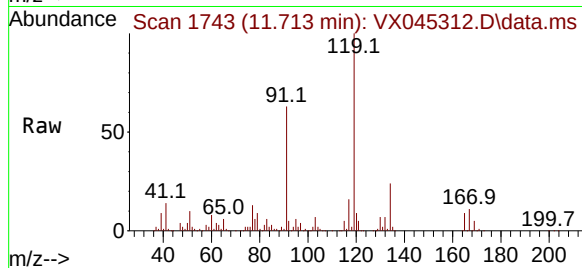
134 23.5 11.7 35.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#84

1,2,4-Trimethylbenzene

Concen: 51.705 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX045312.D

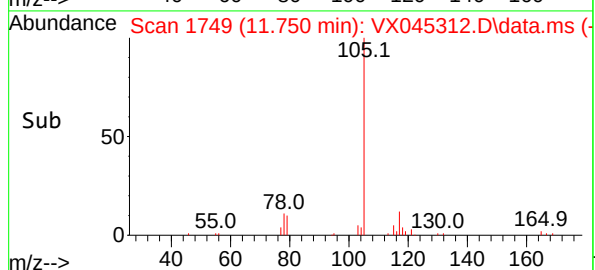
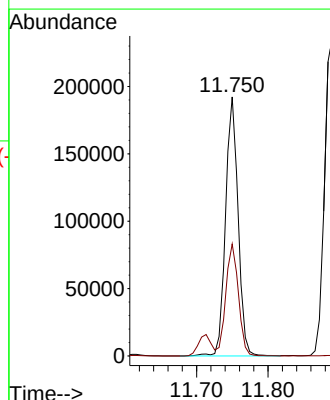
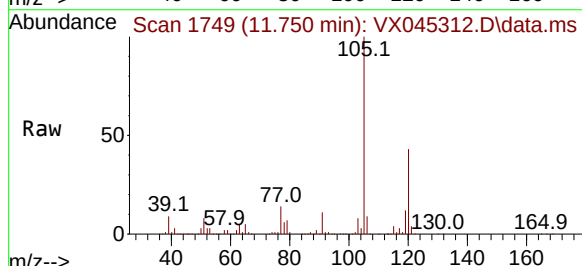
Acq: 18 Mar 2025 10:02

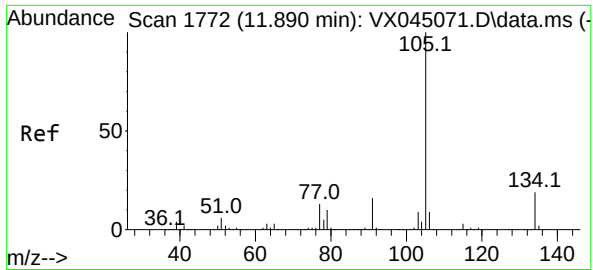
Tgt Ion:105 Resp: 234292

Ion Ratio Lower Upper

105 100

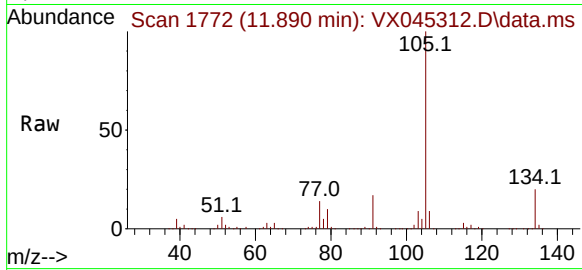
120 43.4 22.1 66.1





#85
 sec-Butylbenzene
 Concen: 53.254 ug/l
 RT: 11.890 min Scan# 1772
 Delta R.T. -0.000 min
 Lab File: VX045312.D
 Acq: 18 Mar 2025 10:02

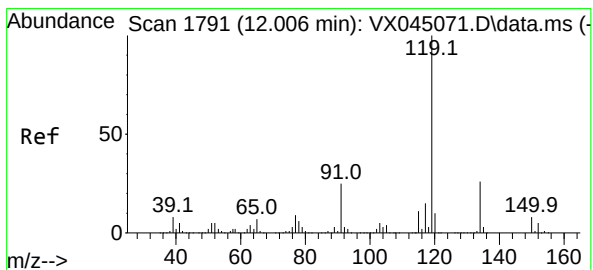
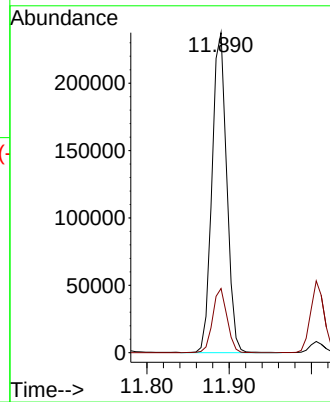
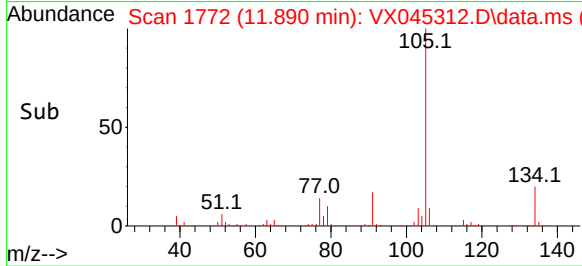
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050



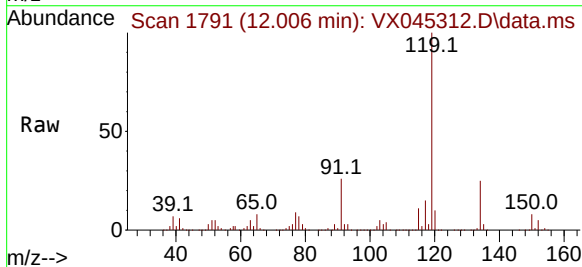
Tgt Ion:105 Resp: 295168
 Ion Ratio Lower Upper
 105 100
 134 19.6 9.8 29.4

Manual Integrations
 APPROVED

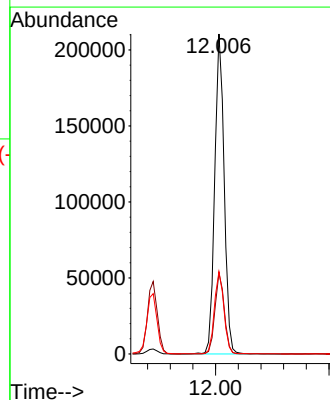
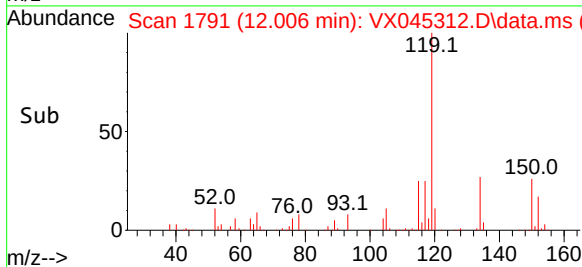
Reviewed By :John Carlone 03/19/2025
 Supervised By :Mahesh Dadoda 03/19/2025

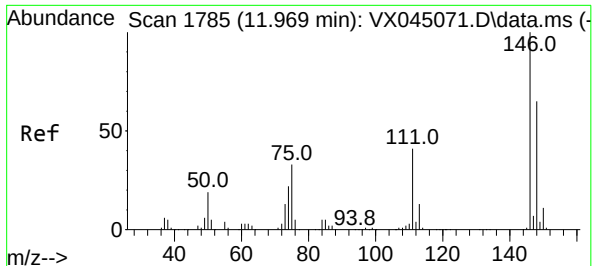


#86
 p-Isopropyltoluene
 Concen: 54.417 ug/l
 RT: 12.006 min Scan# 1791
 Delta R.T. -0.000 min
 Lab File: VX045312.D
 Acq: 18 Mar 2025 10:02



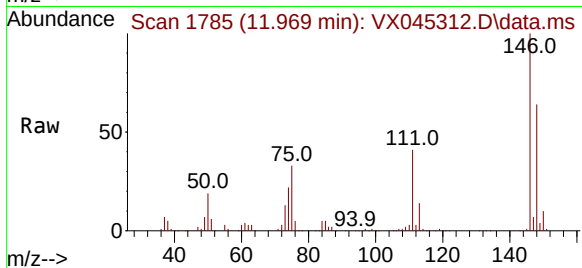
Tgt Ion:119 Resp: 243748
 Ion Ratio Lower Upper
 119 100
 134 25.1 12.9 38.6
 91 25.9 12.7 38.0





#87
1,3-Dichlorobenzene
Concen: 51.323 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

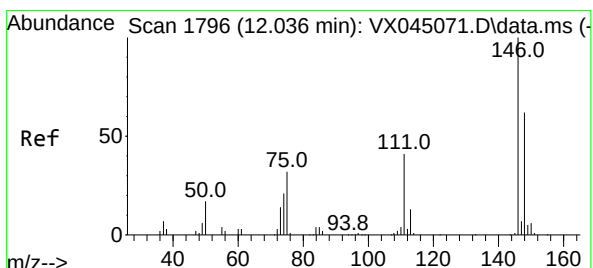
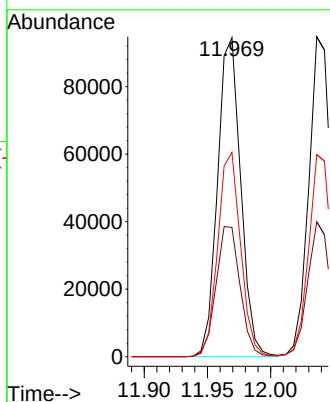
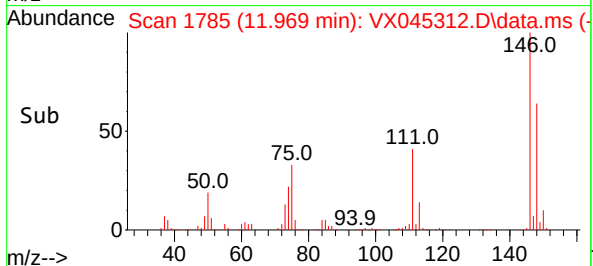
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:146 Resp: 120314
Ion Ratio Lower Upper
146 100
111 42.4 21.1 63.4
148 63.2 31.9 95.7

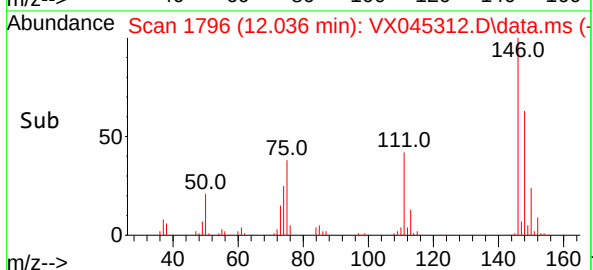
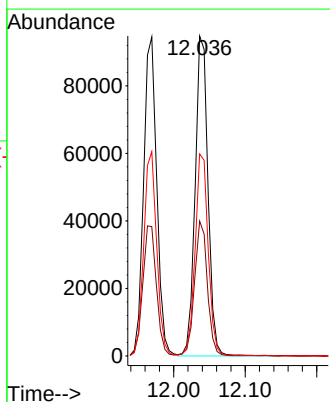
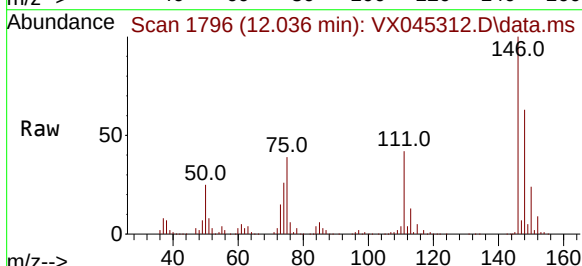
Manual Integrations
APPROVED

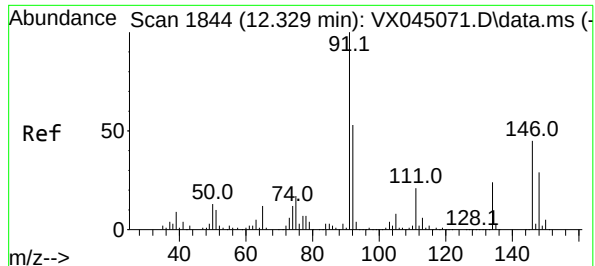
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#88
1,4-Dichlorobenzene
Concen: 49.875 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

Tgt Ion:146 Resp: 118289
Ion Ratio Lower Upper
146 100
111 41.8 20.2 60.5
148 64.1 31.9 95.9





#89

n-Butylbenzene

Concen: 57.938 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX045312.D

Acq: 18 Mar 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 223520

Ion Ratio Lower Upper

91 100

92 52.7 26.7 80.0

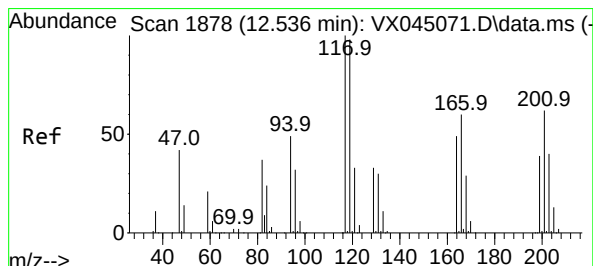
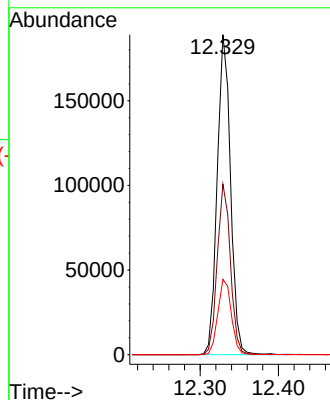
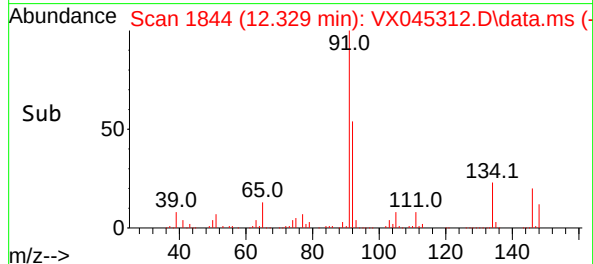
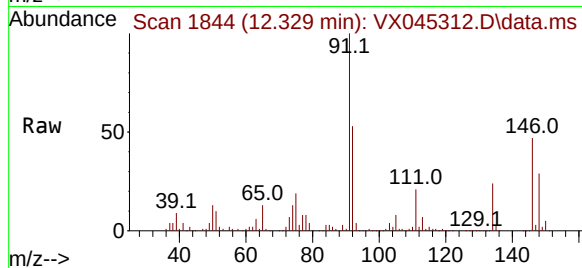
134 23.9 12.2 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#90

Hexachloroethane

Concen: 50.780 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX045312.D

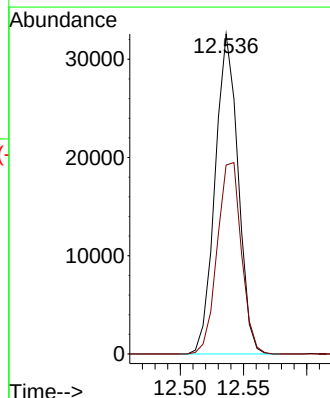
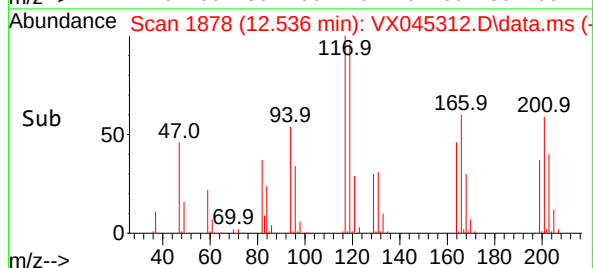
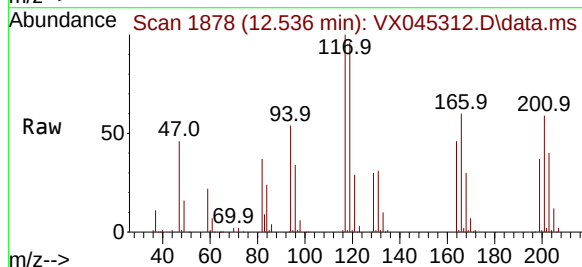
Acq: 18 Mar 2025 10:02

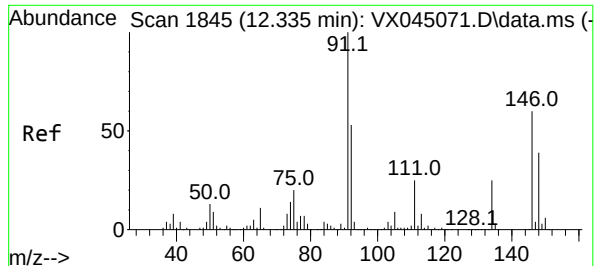
Tgt Ion:117 Resp: 41142

Ion Ratio Lower Upper

117 100

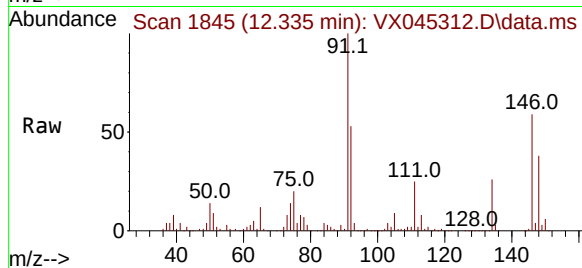
201 63.0 31.9 95.9





#91
1,2-Dichlorobenzene
Concen: 50.826 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

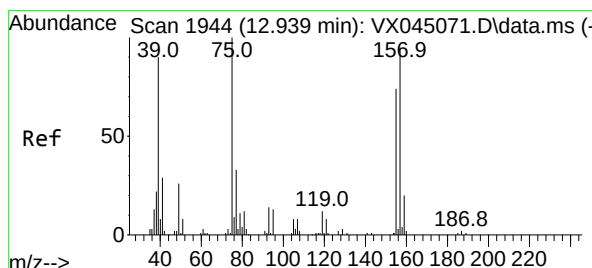
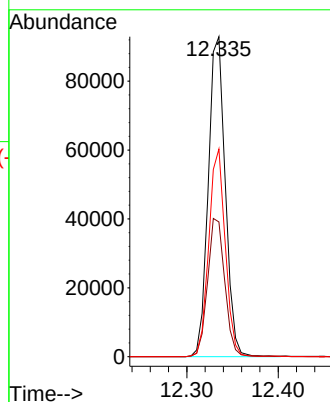
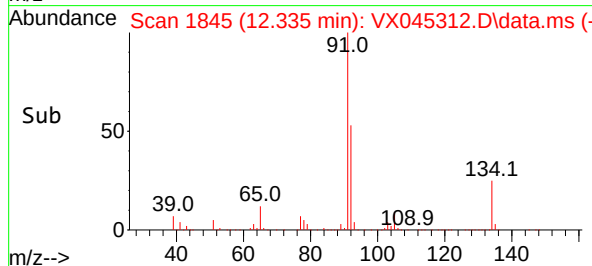
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:146 Resp: 119524
Ion Ratio Lower Upper
146 100
111 43.8 21.6 65.0
148 63.2 31.9 95.9

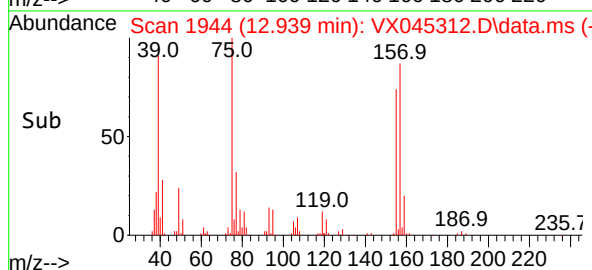
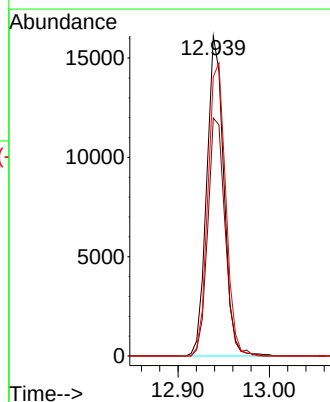
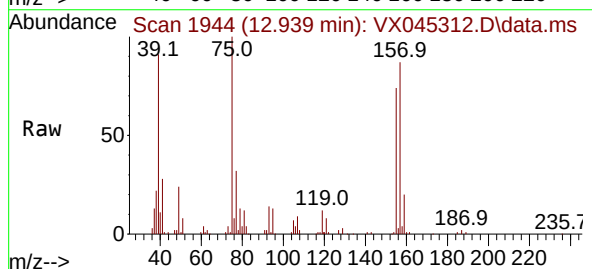
Manual Integrations
APPROVED

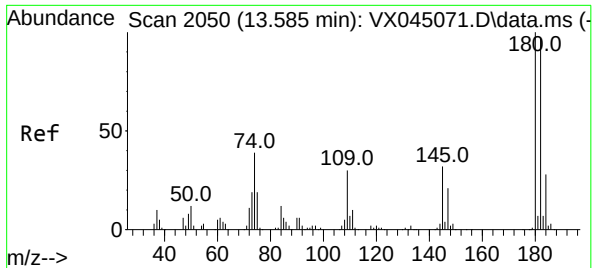
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 52.623 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

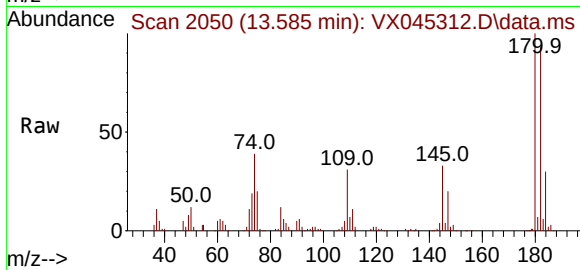
Tgt Ion: 75 Resp: 20953
Ion Ratio Lower Upper
75 100
155 75.3 39.6 118.7
157 95.0 51.1 153.4





#93
1,2,4-Trichlorobenzene
Concen: 54.660 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

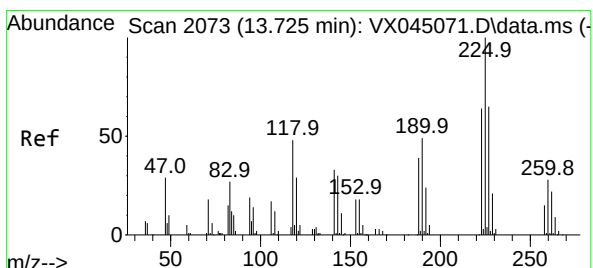
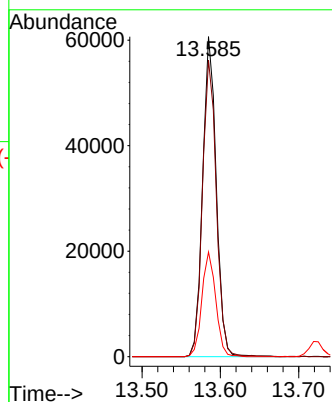
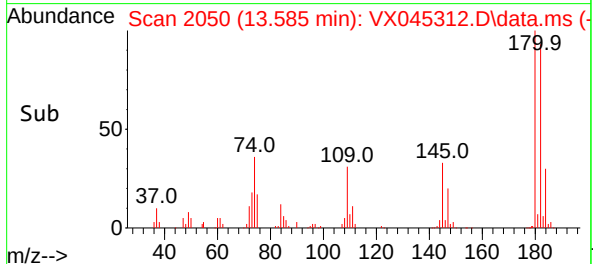
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



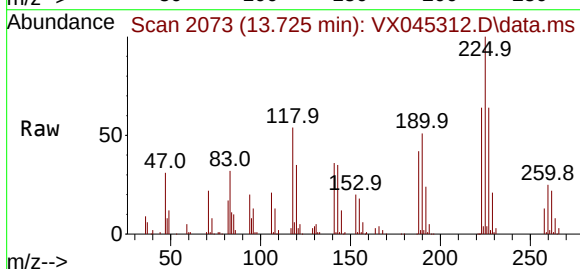
Tgt Ion:180 Resp: 73192
Ion Ratio Lower Upper
180 100
182 94.6 47.3 141.9
145 33.2 16.3 48.9

Manual Integrations
APPROVED

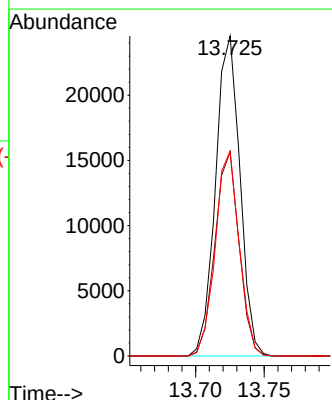
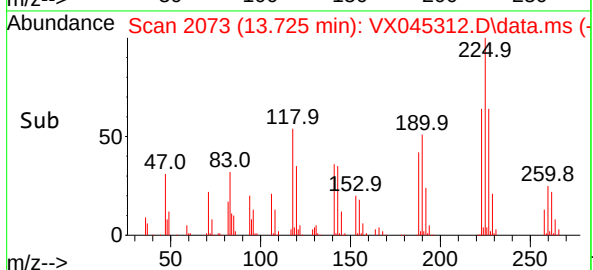
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

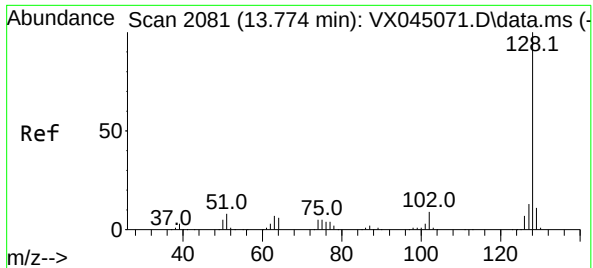


#94
Hexachlorobutadiene
Concen: 55.325 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02



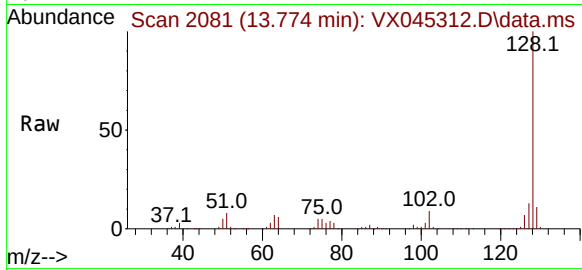
Tgt Ion:225 Resp: 30372
Ion Ratio Lower Upper
225 100
223 62.9 31.9 95.7
227 62.9 31.4 94.0





#95
Naphthalene
Concen: 52.139 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

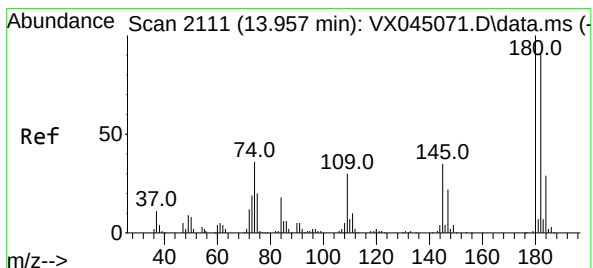
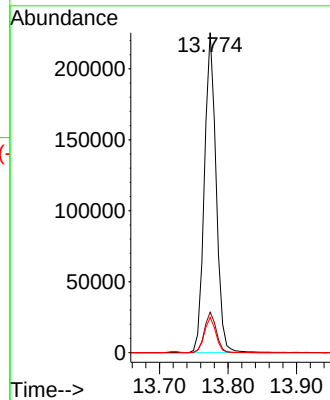
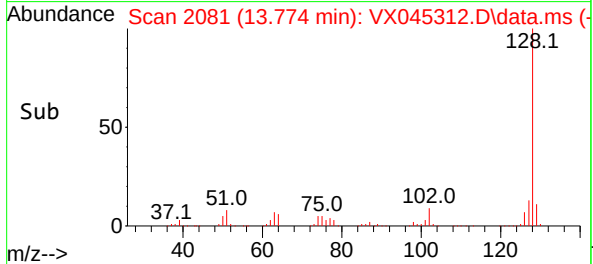
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:128 Resp: 268238
Ion Ratio Lower Upper
128 100
127 12.8 10.3 15.5
129 10.9 8.7 13.1

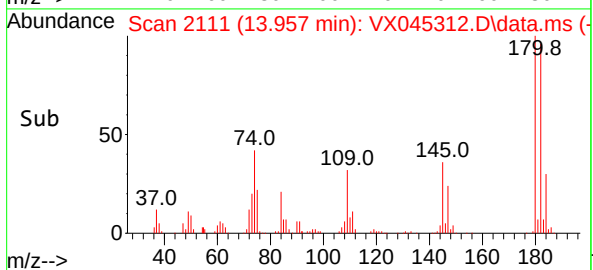
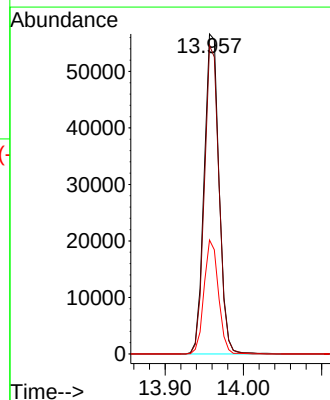
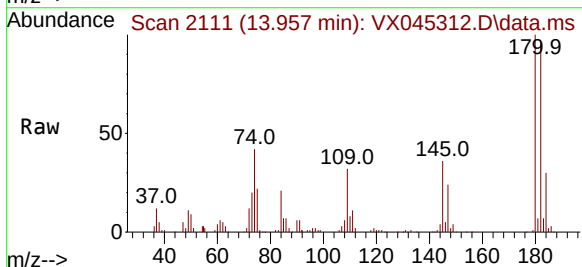
Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 52.979 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045312.D
Acq: 18 Mar 2025 10:02

Tgt Ion:180 Resp: 74839
Ion Ratio Lower Upper
180 100
182 94.9 47.5 142.6
145 34.3 17.0 50.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031825\
 Data File : VX045312.D
 Acq On : 18 Mar 2025 10:02
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Mar 19 01:38:06 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	97	0.00
2 T	Dichlorodifluoromethane	0.629	0.603	4.1	93	0.00
3 P	Chloromethane	0.770	0.700	9.1	90	0.00
4 C	Vinyl Chloride	0.764	0.630	17.5#	80	0.00
5 T	Bromomethane	0.300	0.274	8.7	91	0.00
6 T	Chloroethane	0.352	0.317	9.9	82	0.00
7 T	Trichlorofluoromethane	1.011	0.936	7.4	86	0.00
8 T	Diethyl Ether	0.396	0.336	15.2	84	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.581	0.621	-6.9	101	0.00
10 T	Methyl Iodide	0.726	0.747	-2.9	94	0.00
11 T	Tert butyl alcohol	0.151	0.118	21.9	85	0.00
12 CM	1,1-Dichloroethene	0.614	0.582	5.2#	90	0.00
13 T	Acrolein	0.174	0.164	5.7	91	0.00
14 T	Allyl chloride	1.094	1.090	0.4	95	0.00
15 T	Acrylonitrile	0.404	0.388	4.0	92	0.00
16 T	Acetone	0.369	0.341	7.6	94	0.00
17 T	Carbon Disulfide	1.636	1.304	20.3	76	0.00
18 T	Methyl Acetate	0.888	1.047	-17.9	117	0.00
19 T	Methyl tert-butyl Ether	2.061	2.048	0.6	95	0.00
20 T	Methylene Chloride	0.731	0.679	7.1	94	0.00
21 T	trans-1,2-Dichloroethene	0.607	0.576	5.1	88	0.00
22 T	Diisopropyl ether	2.224	2.229	-0.2	94	0.00
23 T	Vinyl Acetate	1.856	1.855	0.1	91	0.00
24 P	1,1-Dichloroethane	1.247	1.218	2.3	95	0.00
25 T	2-Butanone	0.555	0.537	3.2	90	0.00
26 T	2,2-Dichloropropane	0.585	0.849	-45.1#	138	0.00
27 T	cis-1,2-Dichloroethene	0.749	0.729	2.7	92	0.00
28 T	Bromochloromethane	0.594	0.601	-1.2	96	-0.01
29 T	Tetrahydrofuran	0.373	0.340	8.8	88	0.00
30 C	Chloroform	1.239	1.221	1.5#	95	0.00
31 T	Cyclohexane	1.082	1.015	6.2	89	0.00
32 T	1,1,1-Trichloroethane	1.000	0.996	0.4	94	0.00
33 S	1,2-Dichloroethane-d4	0.795	0.819	-3.0	105	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
35 S	Dibromofluoromethane	0.334	0.351	-5.1	101	0.00
36 T	1,1-Dichloropropene	0.459	0.450	2.0	90	0.00
37 T	Ethyl Acetate	0.591	0.565	4.4	88	0.00
38 T	Carbon Tetrachloride	0.465	0.471	-1.3	95	0.00
39 T	Methylcyclohexane	0.549	0.568	-3.5	92	0.00
40 TM	Benzene	1.448	1.413	2.4	89	0.00
41 T	Methacrylonitrile	0.319	0.329	-3.1	91	0.00
42 TM	1,2-Dichloroethane	0.521	0.545	-4.6	97	0.00
43 T	Isopropyl Acetate	0.874	0.903	-3.3	92	0.00
44 TM	Trichloroethene	0.340	0.329	3.2	91	0.00
45 C	1,2-Dichloropropane	0.372	0.365	1.9#	93	0.00
46 T	Dibromomethane	0.263	0.271	-3.0	95	0.00
47 T	Bromodichloromethane	0.516	0.537	-4.1	97	0.00
48 T	Methyl methacrylate	0.438	0.466	-6.4	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031825\
 Data File : VX045312.D
 Acq On : 18 Mar 2025 10:02
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Mar 19 01:38:06 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	0.008	11.1	84	0.00
50 S	Toluene-d8	1.212	1.212	0.0	94	0.00
51 T	4-Methyl-2-Pentanone	0.587	0.609	-3.7	94	0.00
52 CM	Toluene	0.849	0.858	-1.1#	90	0.00
53 T	t-1,3-Dichloropropene	0.431	0.479	-11.1	96	0.00
54 T	cis-1,3-Dichloropropene	0.503	0.545	-8.3	96	0.00
55 T	1,1,2-Trichloroethane	0.350	0.352	-0.6	93	0.00
56 T	Ethyl methacrylate	0.532	0.571	-7.3	94	0.00
57 T	1,3-Dichloropropane	0.605	0.608	-0.5	92	0.00
58 T	2-Chloroethyl Vinyl ether	0.259	0.301	-16.2	100	0.00
59 T	2-Hexanone	0.425	0.449	-5.6	95	0.00
60 T	Dibromochloromethane	0.366	0.388	-6.0	95	0.00
61 T	1,2-Dibromoethane	0.349	0.352	-0.9	93	0.00
62 S	4-Bromofluorobenzene	0.402	0.438	-9.0	103	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
64 T	Tetrachloroethene	0.320	0.327	-2.2	94	0.00
65 PM	Chlorobenzene	1.058	1.075	-1.6	92	0.00
66 T	1,1,1,2-Tetrachloroethane	0.352	0.363	-3.1	95	0.00
67 C	Ethyl Benzene	1.843	1.908	-3.5#	91	0.00
68 T	m/p-Xylenes	0.675	0.703	-4.1	91	0.00
69 T	o-Xylene	0.681	0.698	-2.5	92	0.00
70 T	Styrene	1.101	1.193	-8.4	94	0.00
71 P	Bromoform	0.266	0.287	-7.9	97	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73 T	Isopropylbenzene	3.903	3.904	-0.0	95	0.00
74 T	N-amyl acetate	1.831	1.949	-6.4	99	0.00
75 P	1,1,2,2-Tetrachloroethane	1.432	1.398	2.4	99	0.00
76 T	1,2,3-Trichloropropane	1.164	1.142	1.9	100	0.00
77 T	Bromobenzene	0.921	0.905	1.7	97	0.00
78 T	n-propylbenzene	4.409	4.615	-4.7	96	0.00
79 T	2-Chlorotoluene	2.808	2.768	1.4	97	0.00
80 T	1,3,5-Trimethylbenzene	3.156	3.218	-2.0	95	0.00
81 T	trans-1,4-Dichloro-2-butene	0.340	0.365	-7.4	108	0.00
82 T	4-Chlorotoluene	3.060	3.176	-3.8	98	0.00
83 T	tert-Butylbenzene	3.242	3.258	-0.5	97	0.00
84 T	1,2,4-Trimethylbenzene	3.175	3.283	-3.4	97	0.00
85 T	sec-Butylbenzene	3.884	4.137	-6.5	98	0.00
86 T	p-Isopropyltoluene	3.139	3.416	-8.8	100	0.00
87 T	1,3-Dichlorobenzene	1.643	1.686	-2.6	101	0.00
88 T	1,4-Dichlorobenzene	1.662	1.658	0.2	98	0.00
89 T	n-Butylbenzene	2.703	3.132	-15.9	104	0.00
90 T	Hexachloroethane	0.568	0.577	-1.6	95	0.00
91 T	1,2-Dichlorobenzene	1.648	1.675	-1.6	101	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.279	0.294	-5.4	102	0.00
93 T	1,2,4-Trichlorobenzene	0.938	1.026	-9.4	102	0.00
94 T	Hexachlorobutadiene	0.385	0.426	-10.6	109	0.00
95 T	Naphthalene	3.605	3.759	-4.3	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031825\
Data File : VX045312.D
Acq On : 18 Mar 2025 10:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 19 01:38:06 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	1.049	-6.0	99	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031825\
 Data File : VX045312.D
 Acq On : 18 Mar 2025 10:02
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Mar 19 01:38:06 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	97	0.00
2 T	Dichlorodifluoromethane	50.000	47.929	4.1	93	0.00
3 P	Chloromethane	50.000	45.462	9.1	90	0.00
4 C	Vinyl Chloride	50.000	41.244	17.5#	80	0.00
5 T	Bromomethane	50.000	45.580	8.8	91	0.00
6 T	Chloroethane	50.000	44.930	10.1	82	0.00
7 T	Trichlorofluoromethane	50.000	46.268	7.5	86	0.00
8 T	Diethyl Ether	50.000	42.490	15.0	84	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	53.469	-6.9	101	0.00
10 T	Methyl Iodide	50.000	51.423	-2.8	94	0.00
11 T	Tert butyl alcohol	250.000	195.913	21.6	85	0.00
12 CM	1,1-Dichloroethene	50.000	47.367	5.3#	90	0.00
13 T	Acrolein	250.000	235.324	5.9	91	0.00
14 T	Allyl chloride	50.000	49.848	0.3	95	0.00
15 T	Acrylonitrile	250.000	240.329	3.9	92	0.00
16 T	Acetone	250.000	230.853	7.7	94	0.00
17 T	Carbon Disulfide	50.000	39.839	20.3	76	0.00
18 T	Methyl Acetate	50.000	58.988	-18.0	117	0.00
19 T	Methyl tert-butyl Ether	50.000	49.687	0.6	95	0.00
20 T	Methylene Chloride	50.000	46.459	7.1	94	0.00
21 T	trans-1,2-Dichloroethene	50.000	47.420	5.2	88	0.00
22 T	Diisopropyl ether	50.000	50.102	-0.2	94	0.00
23 T	Vinyl Acetate	250.000	249.784	0.1	91	0.00
24 P	1,1-Dichloroethane	50.000	48.853	2.3	95	0.00
25 T	2-Butanone	250.000	241.687	3.3	90	0.00
26 T	2,2-Dichloropropane	50.000	72.611	-45.2#	138	0.00
27 T	cis-1,2-Dichloroethene	50.000	48.625	2.8	92	0.00
28 T	Bromochloromethane	50.000	50.547	-1.1	96	-0.01
29 T	Tetrahydrofuran	250.000	227.936	8.8	88	0.00
30 C	Chloroform	50.000	49.301	1.4#	95	0.00
31 T	Cyclohexane	50.000	46.918	6.2	89	0.00
32 T	1,1,1-Trichloroethane	50.000	49.788	0.4	94	0.00
33 S	1,2-Dichloroethane-d4	50.000	51.509	-3.0	105	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	94	0.00
35 S	Dibromofluoromethane	50.000	52.456	-4.9	101	0.00
36 T	1,1-Dichloropropene	50.000	49.023	2.0	90	0.00
37 T	Ethyl Acetate	50.000	47.814	4.4	88	0.00
38 T	Carbon Tetrachloride	50.000	50.618	-1.2	95	0.00
39 T	Methylcyclohexane	50.000	51.720	-3.4	92	0.00
40 TM	Benzene	50.000	48.805	2.4	89	0.00
41 T	Methacrylonitrile	50.000	51.464	-2.9	91	0.00
42 TM	1,2-Dichloroethane	50.000	52.239	-4.5	97	0.00
43 T	Isopropyl Acetate	50.000	51.656	-3.3	92	0.00
44 TM	Trichloroethene	50.000	48.376	3.2	91	0.00
45 C	1,2-Dichloropropane	50.000	49.071	1.9#	93	0.00
46 T	Dibromomethane	50.000	51.526	-3.1	95	0.00
47 T	Bromodichloromethane	50.000	52.012	-4.0	97	0.00
48 T	Methyl methacrylate	50.000	53.109	-6.2	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031825\
 Data File : VX045312.D
 Acq On : 18 Mar 2025 10:02
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Mar 19 01:38:06 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	907.231	9.3	84	0.00
50 S	Toluene-d8	50.000	49.996	0.0	94	0.00
51 T	4-Methyl-2-Pentanone	250.000	259.644	-3.9	94	0.00
52 CM	Toluene	50.000	50.515	-1.0#	90	0.00
53 T	t-1,3-Dichloropropene	50.000	55.465	-10.9	96	0.00
54 T	cis-1,3-Dichloropropene	50.000	54.190	-8.4	96	0.00
55 T	1,1,2-Trichloroethane	50.000	50.360	-0.7	93	0.00
56 T	Ethyl methacrylate	50.000	53.664	-7.3	94	0.00
57 T	1,3-Dichloropropane	50.000	50.198	-0.4	92	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	290.649	-16.3	100	0.00
59 T	2-Hexanone	250.000	263.820	-5.5	95	0.00
60 T	Dibromochloromethane	50.000	53.043	-6.1	95	0.00
61 T	1,2-Dibromoethane	50.000	50.415	-0.8	93	0.00
62 S	4-Bromofluorobenzene	50.000	54.557	-9.1	103	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	93	0.00
64 T	Tetrachloroethene	50.000	51.098	-2.2	94	0.00
65 PM	Chlorobenzene	50.000	50.822	-1.6	92	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	51.552	-3.1	95	0.00
67 C	Ethyl Benzene	50.000	51.743	-3.5#	91	0.00
68 T	m/p-Xylenes	100.000	104.167	-4.2	91	0.00
69 T	o-Xylene	50.000	51.291	-2.6	92	0.00
70 T	Styrene	50.000	54.166	-8.3	94	0.00
71 P	Bromoform	50.000	54.084	-8.2	97	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73 T	Isopropylbenzene	50.000	50.023	-0.0	95	0.00
74 T	N-ethyl acetate	50.000	53.226	-6.5	99	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	48.809	2.4	99	0.00
76 T	1,2,3-Trichloropropane	50.000	49.055	1.9	100	0.00
77 T	Bromobenzene	50.000	49.150	1.7	97	0.00
78 T	n-propylbenzene	50.000	52.338	-4.7	96	0.00
79 T	2-Chlorotoluene	50.000	49.301	1.4	97	0.00
80 T	1,3,5-Trimethylbenzene	50.000	50.984	-2.0	95	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	53.737	-7.5	108	0.00
82 T	4-Chlorotoluene	50.000	51.902	-3.8	98	0.00
83 T	tert-Butylbenzene	50.000	50.249	-0.5	97	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.705	-3.4	97	0.00
85 T	sec-Butylbenzene	50.000	53.254	-6.5	98	0.00
86 T	p-Isopropyltoluene	50.000	54.417	-8.8	100	0.00
87 T	1,3-Dichlorobenzene	50.000	51.323	-2.6	101	0.00
88 T	1,4-Dichlorobenzene	50.000	49.875	0.3	98	0.00
89 T	n-Butylbenzene	50.000	57.938	-15.9	104	0.00
90 T	Hexachloroethane	50.000	50.780	-1.6	95	0.00
91 T	1,2-Dichlorobenzene	50.000	50.826	-1.7	101	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	52.623	-5.2	102	0.00
93 T	1,2,4-Trichlorobenzene	50.000	54.660	-9.3	102	0.00
94 T	Hexachlorobutadiene	50.000	55.325	-10.7	109	0.00
95 T	Naphthalene	50.000	52.139	-4.3	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031825\
Data File : VX045312.D
Acq On : 18 Mar 2025 10:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 19 01:38:06 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	52.979	-6.0	99	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



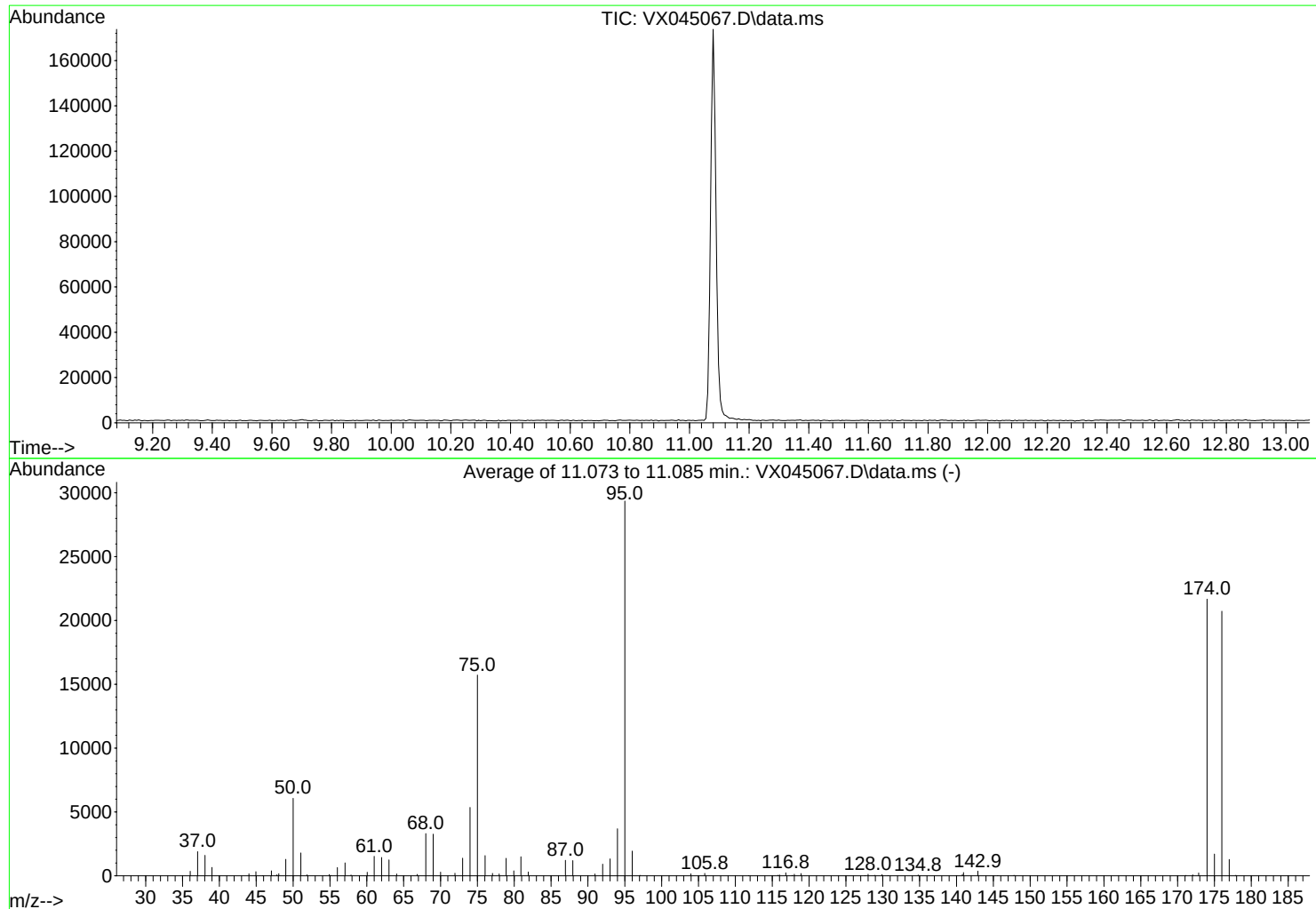
QC SAMPLE DATA

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

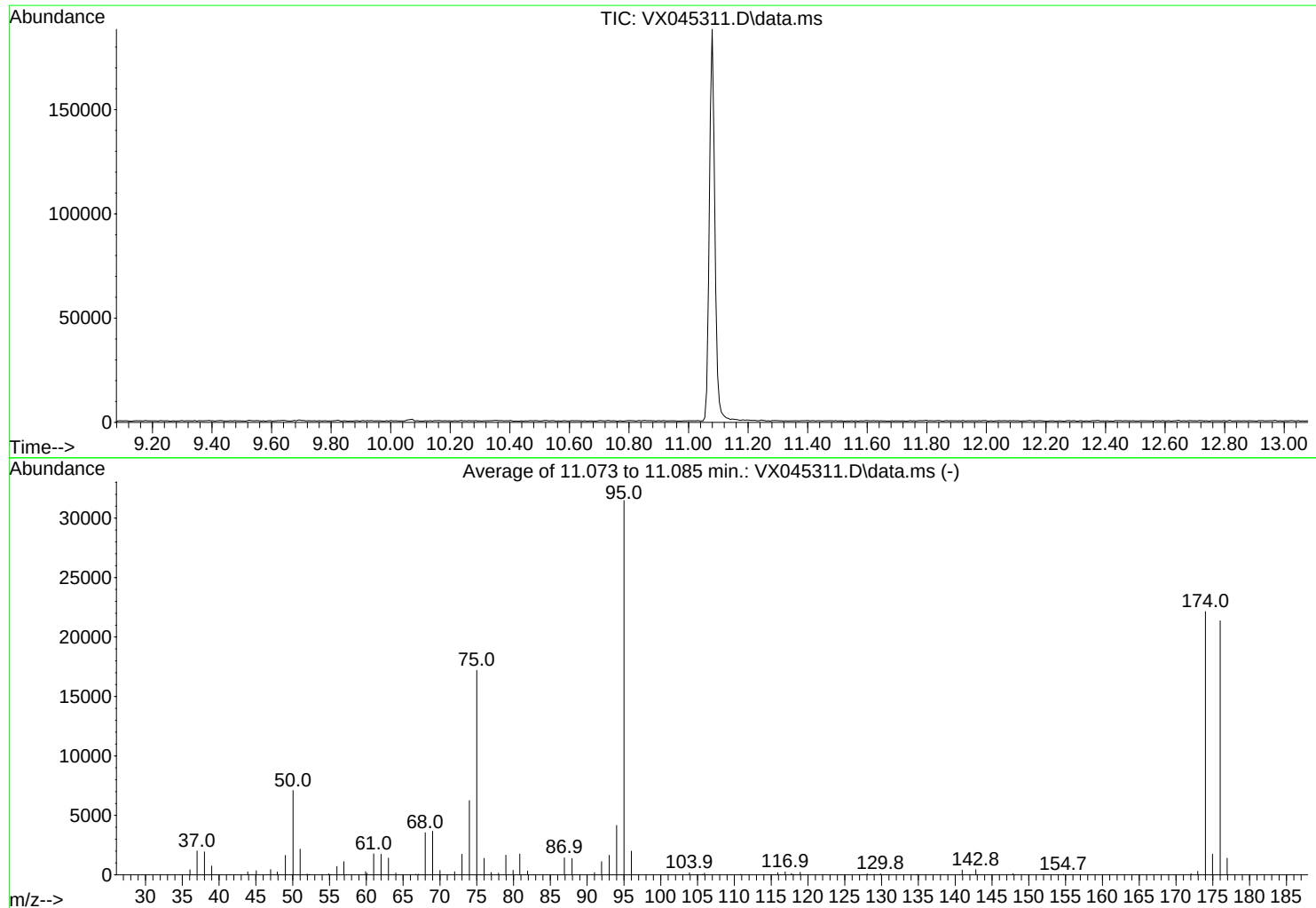
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.7	6072	PASS
75	95	30	60	53.6	15726	PASS
95	95	100	100	100.0	29360	PASS
96	95	5	9	6.6	1942	PASS
173	174	0.00	2	1.0	219	PASS
174	95	50	100	73.8	21677	PASS
175	174	5	9	7.9	1702	PASS
176	174	95	101	95.6	20723	PASS
177	176	5	9	6.2	1277	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031825\
Data File : VX045311.D
Acq On : 18 Mar 2025 09:33
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	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	22.5	7091	PASS
75	95	30	60	54.6	17201	PASS
95	95	100	100	100.0	31485	PASS
96	95	5	9	6.4	2001	PASS
173	174	0.00	2	1.4	302	PASS
174	95	50	100	70.3	22144	PASS
175	174	5	9	7.9	1739	PASS
176	174	95	101	96.5	21373	PASS
177	176	5	9	6.6	1401	PASS

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Ave L	Date Received:	
Client Sample ID:	VX0318WBL01	SDG No.:	Q1576
Lab Sample ID:	VX0318WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045314.D	1		03/18/25 10:53	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

Report of Analysis

Client:	G Environmental		Date Collected:	
Project:	Ave L		Date Received:	
Client Sample ID:	VX0318WBL01		SDG No.:	Q1576
Lab Sample ID:	VX0318WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045314.D	1		03/18/25 10:53	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.3		70 (74) - 130 (125)	113%	SPK: 50
1868-53-7	Dibromofluoromethane	54.0		70 (75) - 130 (124)	108%	SPK: 50
2037-26-5	Toluene-d8	52.3		70 (86) - 130 (113)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.2		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	67000	5.544			
540-36-3	1,4-Difluorobenzene	131000	6.757			
3114-55-4	Chlorobenzene-d5	118000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	46400	12.018			

Report of Analysis

Client:	G Environmental		Date Collected:	
Project:	Ave L		Date Received:	
Client Sample ID:	VX0318WBL01		SDG No.:	Q1576
Lab Sample ID:	VX0318WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045314.D	1		03/18/25 10:53	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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\VX031825\
 Data File : VX045314.D
 Acq On : 18 Mar 2025 10:53
 Operator : JC/MD
 Sample : VX0318WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0318WBL01

Quant Time: Mar 19 01:39:45 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	66984	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	130552	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	117786	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	46358	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	59994	56.307	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	112.620%
35) Dibromofluoromethane	5.379	113	47101	53.955	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	107.920%
50) Toluene-d8	8.647	98	165615	52.330	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.660%
62) 4-Bromofluorobenzene	11.079	95	54760	52.216	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	104.440%

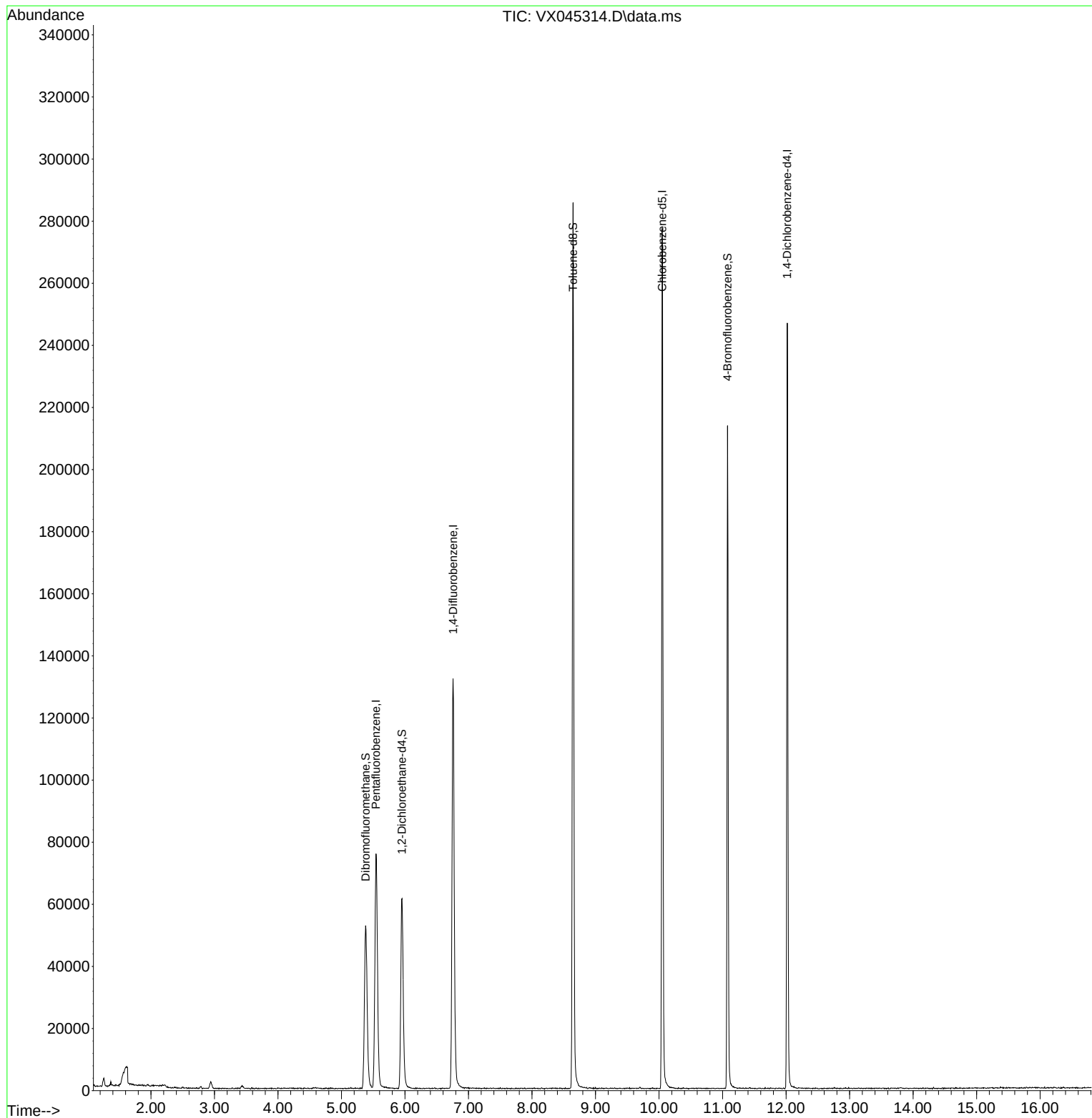
Target Compounds	Qvalue

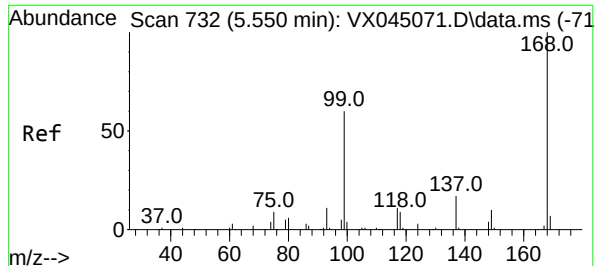
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031825\
Data File : VX045314.D
Acq On : 18 Mar 2025 10:53
Operator : JC/MD
Sample : VX0318WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0318WBL01

Quant Time: Mar 19 01:39:45 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

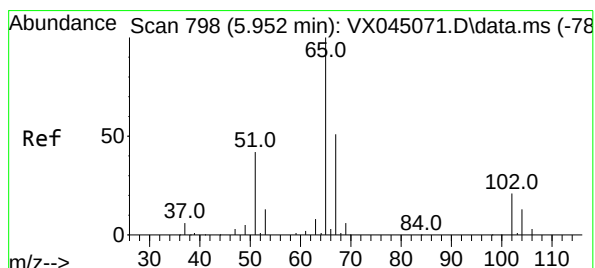
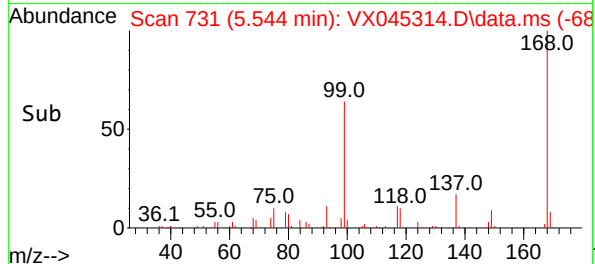
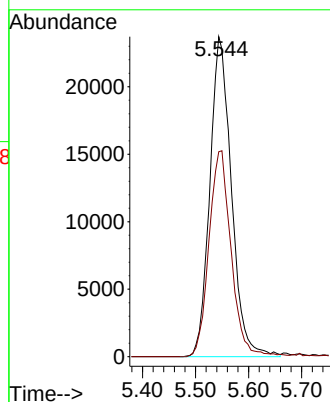
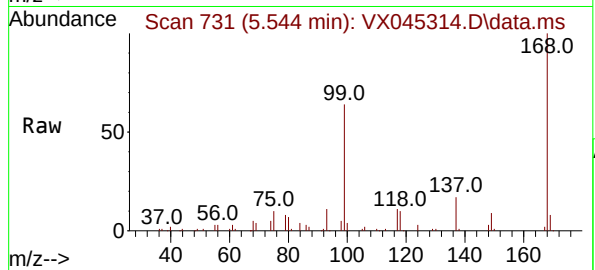




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.006 min
Lab File: VX045314.D
Acq: 18 Mar 2025 10:53

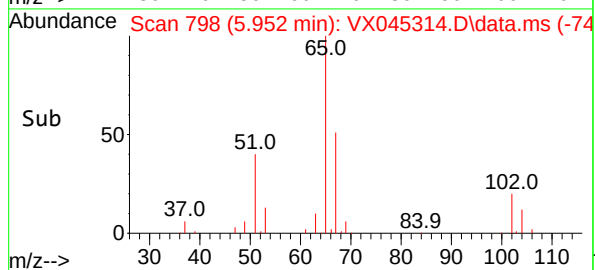
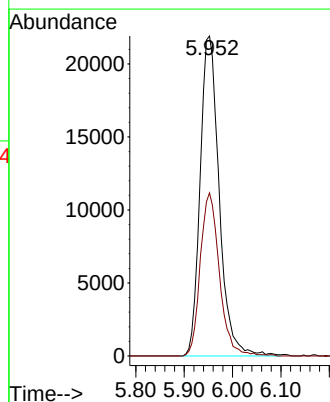
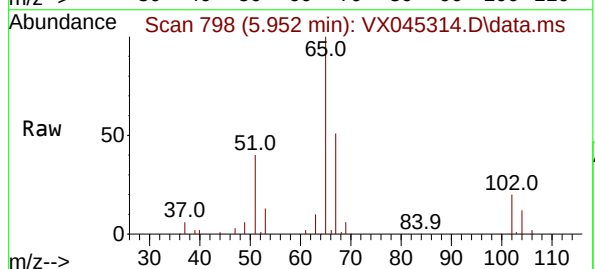
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBL01

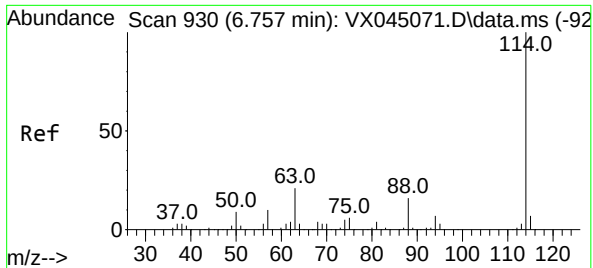
Tgt Ion:168 Resp: 66984
Ion Ratio Lower Upper
168 100
99 64.0 48.2 72.4



#33
1,2-Dichloroethane-d4
Concen: 56.307 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045314.D
Acq: 18 Mar 2025 10:53

Tgt Ion: 65 Resp: 59994
Ion Ratio Lower Upper
65 100
67 51.1 0.0 106.2

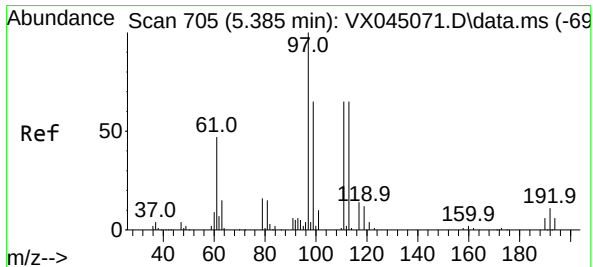
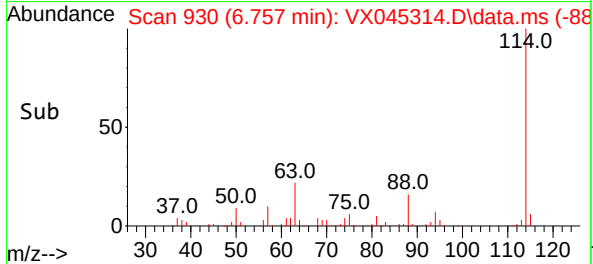
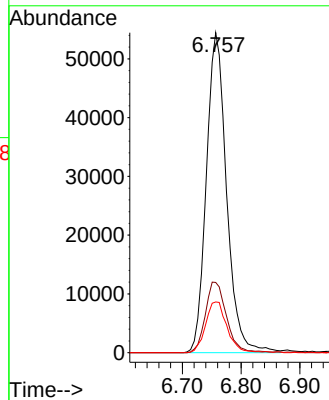
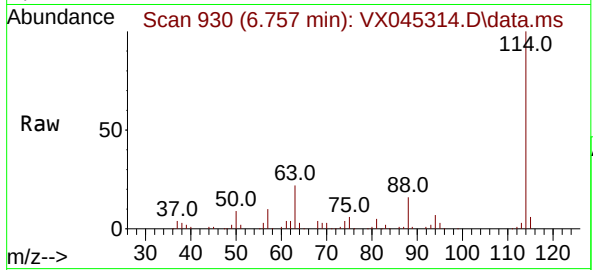




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX045314.D
Acq: 18 Mar 2025 10:53

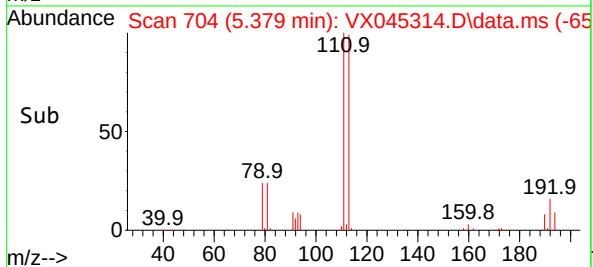
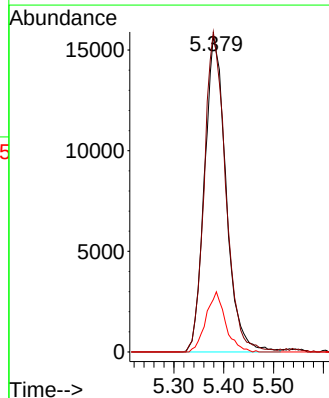
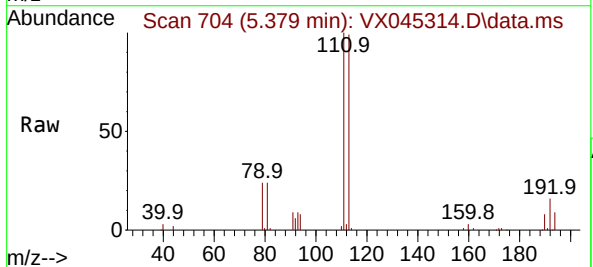
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBL01

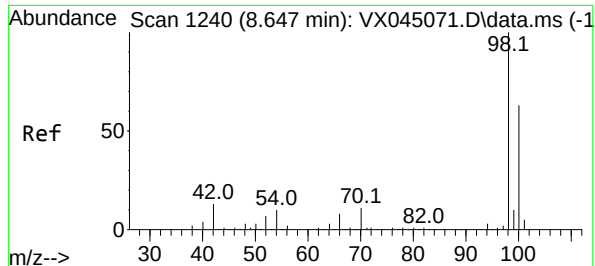
Tgt Ion:114 Resp: 130552
Ion Ratio Lower Upper
114 100
63 22.0 0.0 41.8
88 15.9 0.0 32.8



#35
Dibromofluoromethane
Concen: 53.955 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX045314.D
Acq: 18 Mar 2025 10:53

Tgt Ion:113 Resp: 47101
Ion Ratio Lower Upper
113 100
111 100.4 81.8 122.6
192 17.3 14.3 21.5





#50

Toluene-d8

Concen: 52.330 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX045314.D

Acq: 18 Mar 2025 10:53

Instrument :

MSVOA_X

ClientSampleId :

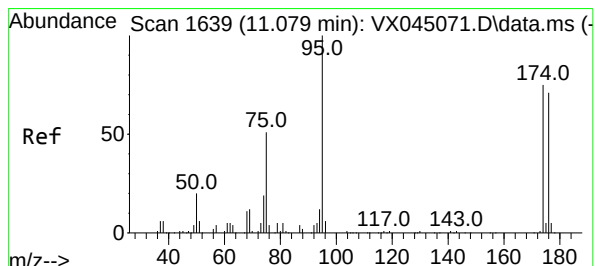
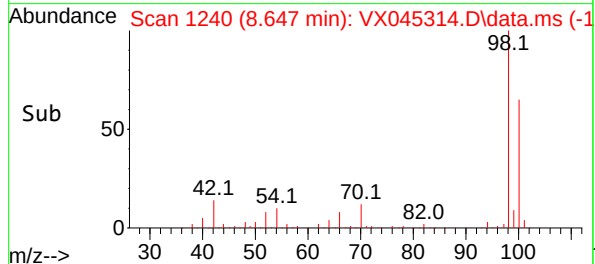
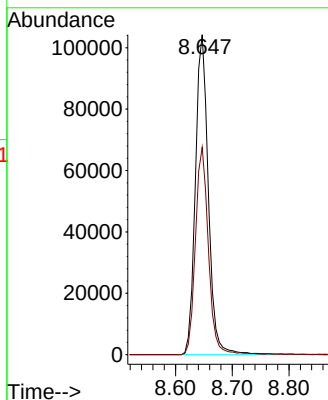
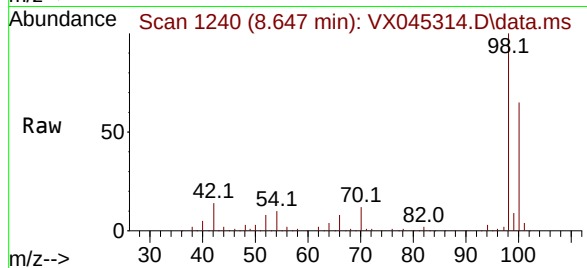
VX0318WBL01

Tgt Ion: 98 Resp: 165615

Ion Ratio Lower Upper

98 100

100 65.0 52.0 78.0



#62

4-Bromofluorobenzene

Concen: 52.216 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX045314.D

Acq: 18 Mar 2025 10:53

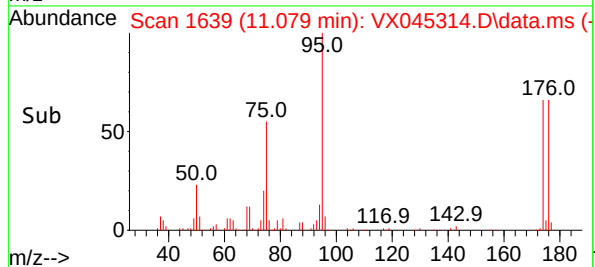
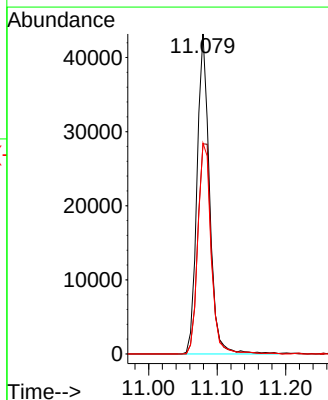
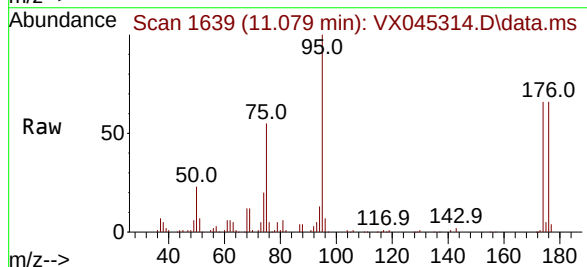
Tgt Ion: 95 Resp: 54760

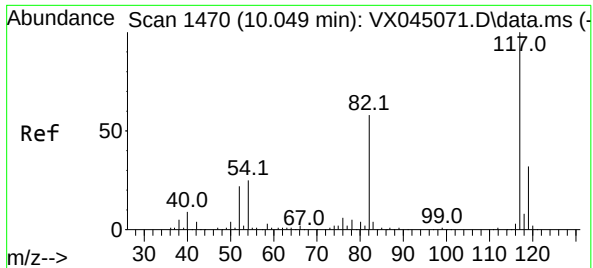
Ion Ratio Lower Upper

95 100

174 71.8 0.0 148.2

176 70.1 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: VX045314.D

Acq: 18 Mar 2025 10:53

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBL01

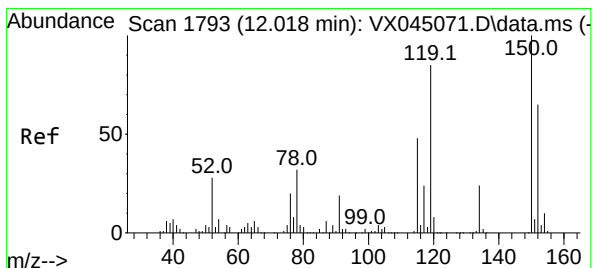
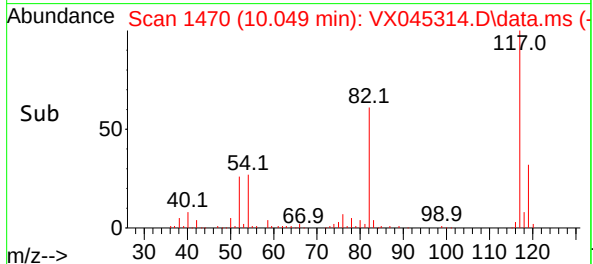
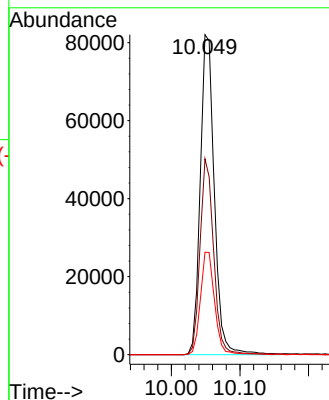
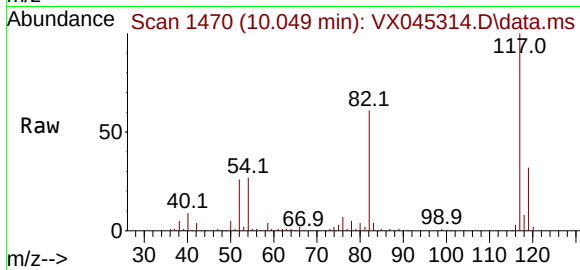
Tgt Ion:117 Resp: 117786

Ion Ratio Lower Upper

117 100

82 61.2 46.3 69.5

119 32.0 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: VX045314.D

Acq: 18 Mar 2025 10:53

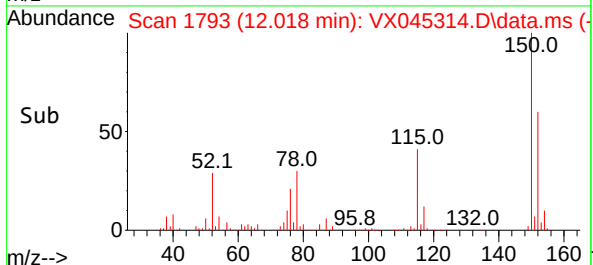
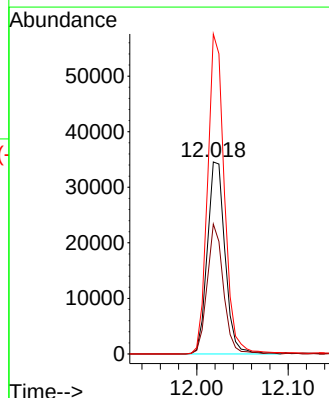
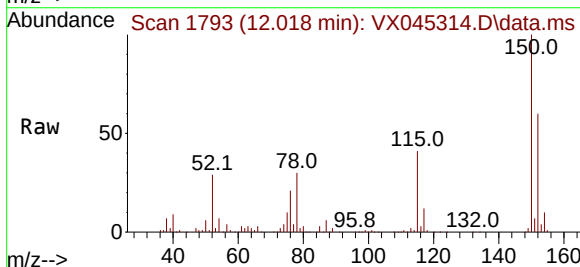
Tgt Ion:152 Resp: 46358

Ion Ratio Lower Upper

152 100

115 62.3 44.2 132.6

150 158.8 0.0 349.0



Report of Analysis

Client:	G Environmental			Date Collected:	
Project:	Ave L			Date Received:	
Client Sample ID:	VX0318WBS01			SDG No.:	Q1576
Lab Sample ID:	VX0318WBS01			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI	ID :	0.18	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045315.D	1		03/18/25 11:16	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.6		0.22	1.00	ug/L
74-87-3	Chloromethane	16.7		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	15.9		0.26	1.00	ug/L
74-83-9	Bromomethane	18.2		1.40	5.00	ug/L
75-00-3	Chloroethane	20.3		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.6		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.8		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.5		0.23	1.00	ug/L
67-64-1	Acetone	99.4		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	14.6		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.8		0.16	1.00	ug/L
79-20-9	Methyl Acetate	24.5		0.27	1.00	ug/L
75-09-2	Methylene Chloride	18.8		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.7		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.7		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.6		1.50	5.00	ug/L
78-93-3	2-Butanone	100		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.7		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.6		0.19	1.00	ug/L
74-97-5	Bromochloromethane	21.8		0.22	1.00	ug/L
67-66-3	Chloroform	20.5		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.0		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	19.8		0.16	1.00	ug/L
71-43-2	Benzene	19.7		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.3		0.22	1.00	ug/L
79-01-6	Trichloroethene	18.9		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.8		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	20.6		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	5.00	ug/L
108-88-3	Toluene	20.5		0.14	1.00	ug/L

Report of Analysis

Client:	G Environmental		Date Collected:	
Project:	Ave L		Date Received:	
Client Sample ID:	VX0318WBS01		SDG No.:	Q1576
Lab Sample ID:	VX0318WBS01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045315.D	1		03/18/25 11:16	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.4		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.2		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.5		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	20.3		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.4		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	20.0		0.23	1.00	ug/L
108-90-7	Chlorobenzene	19.9		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	20.3		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	41.2		0.24	2.00	ug/L
95-47-6	o-Xylene	20.1		0.12	1.00	ug/L
100-42-5	Styrene	20.9		0.15	1.00	ug/L
75-25-2	Bromoform	20.0		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	21.0		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.2		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.2		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.9		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.5		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.1		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.7		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.7		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.2		70 (74) - 130 (125)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	52.9		70 (75) - 130 (124)	106%	SPK: 50
2037-26-5	Toluene-d8	51.2		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.1		70 (77) - 130 (121)	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	101000	5.55			
540-36-3	1,4-Difluorobenzene	180000	6.757			
3114-55-4	Chlorobenzene-d5	159000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	70600	12.018			

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Ave L	Date Received:	
Client Sample ID:	VX0318WBS01	SDG No.:	Q1576
Lab Sample ID:	VX0318WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045315.D	1		03/18/25 11:16	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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\VX031825\
 Data File : VX045315.D
 Acq On : 18 Mar 2025 11:16
 Operator : JC/MD
 Sample : VX0318WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0318WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/19/2025
 Supervised By : Mahesh Dadoda 03/19/2025

Quant Time: Mar 19 01:40:10 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	101216	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	179978	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	159085	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	70581	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	85669	53.211	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.420%			
35) Dibromofluoromethane	5.379	113	63666	52.902	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.800%			
50) Toluene-d8	8.647	98	223393	51.202	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.400%			
62) 4-Bromofluorobenzene	11.079	95	78279	54.144	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.280%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	23648	18.561	ug/l	96
3) Chloromethane	1.307	50	26060	16.714	ug/l	96
4) Vinyl Chloride	1.374	62	24585	15.895	ug/l	99
5) Bromomethane	1.593	94	11086	18.232	ug/l	97
6) Chloroethane	1.666	64	14472	20.285	ug/l	97
7) Trichlorofluoromethane	1.874	101	38112	18.613	ug/l	98
8) Diethyl Ether	2.136	74	13147	16.415	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	24411	20.751	ug/l	98
10) Methyl Iodide	2.441	142	27544	18.736	ug/l	97
11) Tert butyl alcohol	2.977	59	23962	78.575	ug/l	97
12) 1,1-Dichloroethene	2.307	96	22967	18.466	ug/l	93
13) Acrolein	2.233	56	18007	51.080	ug/l	100
14) Allyl chloride	2.654	41	43853	19.808	ug/l	97
15) Acrylonitrile	3.062	53	81578	99.811	ug/l	99
16) Acetone	2.386	43	74275	99.433	ug/l	100
17) Carbon Disulfide	2.502	76	48265	14.570	ug/l	100
18) Methyl Acetate	2.703	43	44014	24.493	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	82507	19.773	ug/l	97
20) Methylene Chloride	2.782	84	27791	18.782	ug/l	95
21) trans-1,2-Dichloroethene	3.087	96	23029	18.742	ug/l	91
22) Diisopropyl ether	3.757	45	91341	20.287	ug/l #	79
23) Vinyl Acetate	3.721	43	368514	98.077	ug/l	100
24) 1,1-Dichloroethane	3.605	63	49698	19.695	ug/l	97
25) 2-Butanone	4.556	43	115779	102.970	ug/l	97
26) 2,2-Dichloropropane	4.477	77	33045	27.919	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	29728	19.599	ug/l	96
28) Bromochloromethane	4.898	49	26265	21.837	ug/l	100
29) Tetrahydrofuran	5.007	42	72963	96.628	ug/l	99
30) Chloroform	5.087	83	51341	20.477	ug/l	98
31) Cyclohexane	5.465	56	40755	18.606	ug/l	96
32) 1,1,1-Trichloroethane	5.379	97	40576	20.038	ug/l	99
36) 1,1-Dichloropropene	5.690	75	32750	19.843	ug/l	98
37) Ethyl Acetate	4.721	43	41898	19.701	ug/l	99
38) Carbon Tetrachloride	5.672	117	32994	19.691	ug/l	97
39) Methylcyclohexane	7.373	83	39221	19.833	ug/l	96
40) Benzene	6.031	78	102609	19.688	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031825\
 Data File : VX045315.D
 Acq On : 18 Mar 2025 11:16
 Operator : JC/MD
 Sample : VX0318WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0318WBS01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 03/19/2025
 Supervised By :Mahesh Dadoda 03/19/2025

Quant Time: Mar 19 01:40:10 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	4.916	41	23090	20.079	ug/l	94
42) 1,2-Dichloroethane	6.086	62	39956	21.290	ug/l	98
43) Isopropyl Acetate	6.342	43	63959	20.338	ug/l	99
44) Trichloroethene	7.117	130	23097	18.874	ug/l	97
45) 1,2-Dichloropropane	7.428	63	26591	19.844	ug/l	98
46) Dibromomethane	7.580	93	19209	20.282	ug/l	99
47) Bromodichloromethane	7.818	83	38279	20.605	ug/l	97
48) Methyl methacrylate	7.690	41	32572	20.645	ug/l	96
49) 1,4-Dioxane	7.665	88	12054	362.201	ug/l	93
51) 4-Methyl-2-Pentanone	8.574	43	230272	109.054	ug/l	98
52) Toluene	8.714	92	62616	20.477	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	31720	20.424	ug/l	96
54) cis-1,3-Dichloropropene	8.360	75	38346	21.174	ug/l	93
55) 1,1,2-Trichloroethane	9.153	97	25793	20.490	ug/l	98
56) Ethyl methacrylate	9.116	69	39605	20.698	ug/l	94
57) 1,3-Dichloropropane	9.305	76	44804	20.567	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	88727	95.056	ug/l	99
59) 2-Hexanone	9.427	43	167637	109.574	ug/l	98
60) Dibromochloromethane	9.519	129	26686	20.275	ug/l	99
61) 1,2-Dibromoethane	9.610	107	25665	20.423	ug/l	99
64) Tetrachloroethene	9.269	164	20403	20.025	ug/l	96
65) Chlorobenzene	10.080	112	66830	19.853	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	22645	20.200	ug/l	97
67) Ethyl Benzene	10.189	91	119008	20.290	ug/l	99
68) m/p-Xylenes	10.299	106	88510	41.222	ug/l	98
69) o-Xylene	10.640	106	43529	20.101	ug/l	96
70) Styrene	10.653	104	73075	20.855	ug/l	98
71) Bromoform	10.799	173	16873	19.960	ug/l #	96
73) Isopropylbenzene	10.957	105	115722	21.006	ug/l	99
74) N-amyl acetate	10.842	43	52935	20.478	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.207	83	40904	20.233	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	33063m	20.126	ug/l	
77) Bromobenzene	11.195	156	26393	20.305	ug/l	98
78) n-propylbenzene	11.299	91	133799	21.500	ug/l	98
79) 2-Chlorotoluene	11.360	91	81371	20.531	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	93706	21.036	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	9303	19.380	ug/l #	83
82) 4-Chlorotoluene	11.451	91	90708	21.000	ug/l	100
83) tert-Butylbenzene	11.713	119	94270	20.597	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	95258	21.253	ug/l	99
85) sec-Butylbenzene	11.890	105	118093	21.540	ug/l	99
86) p-Isopropyltoluene	12.006	119	93774	21.165	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	46929	20.238	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	46719	19.915	ug/l	98
89) n-Butylbenzene	12.329	91	81793	21.434	ug/l	99
90) Hexachloroethane	12.536	117	15561	19.417	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	47575	20.453	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7898	20.053	ug/l	95
93) 1,2,4-Trichlorobenzene	13.585	180	26039	19.660	ug/l	99
94) Hexachlorobutadiene	13.725	225	11193	20.613	ug/l	99
95) Naphthalene	13.774	128	99469	19.547	ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	27553	19.719	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031825\
Data File : VX045315.D
Acq On : 18 Mar 2025 11:16
Operator : JC/MD
Sample : VX0318WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

Quant Time: Mar 19 01:40:10 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

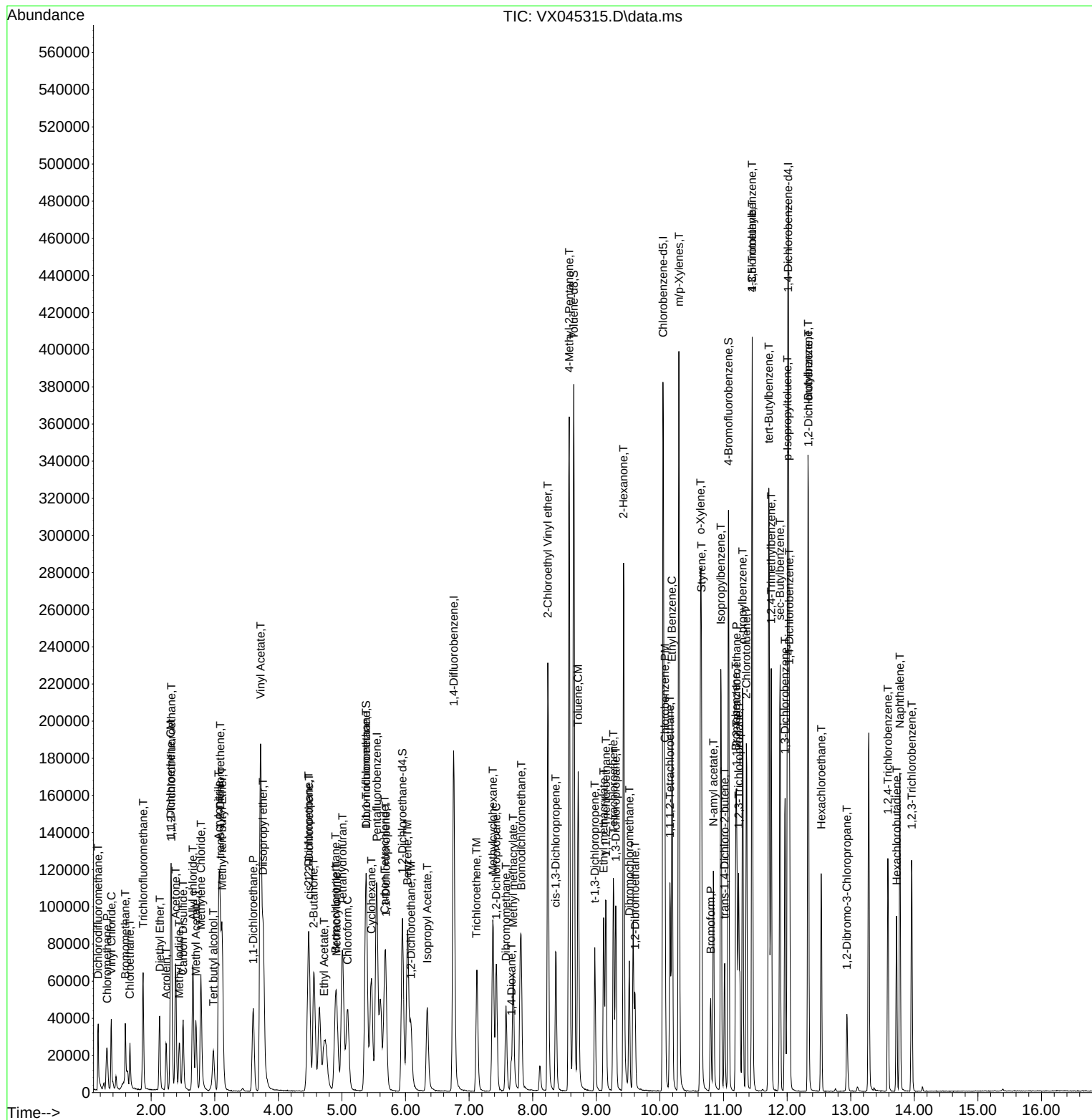
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Data File : VX045315.D
Acq On : 18 Mar 2025 11:16
Operator : JC/MD
Sample : VX0318WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

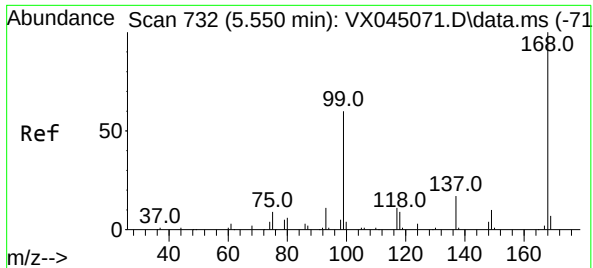
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

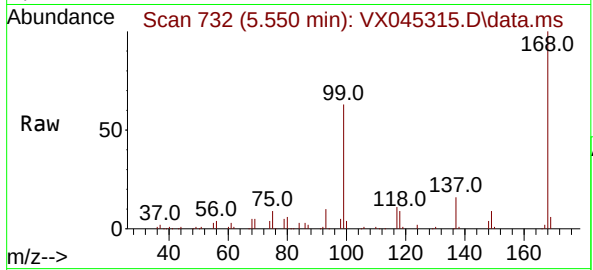
Quant Time: Mar 19 01:40:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

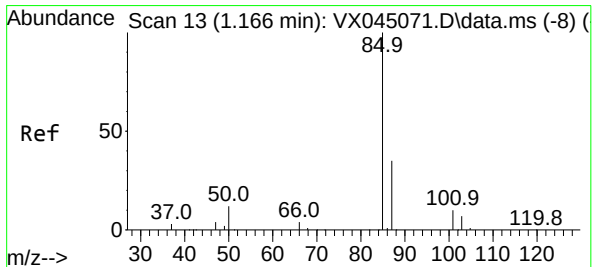
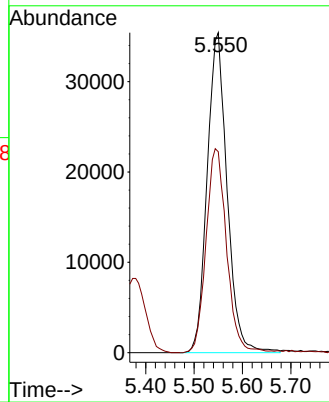
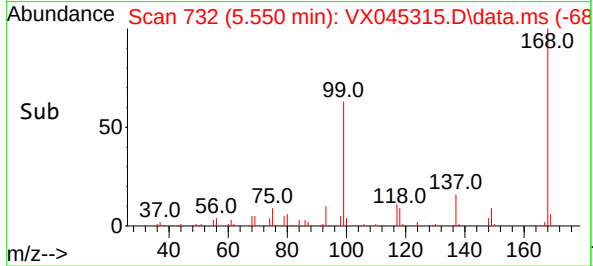
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01



Tgt Ion:168 Resp: 101210
Ion Ratio Lower Upper
168 100
99 62.8 48.2 72.4

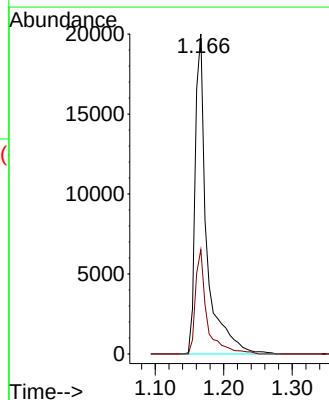
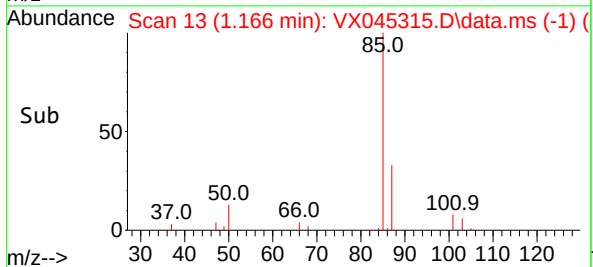
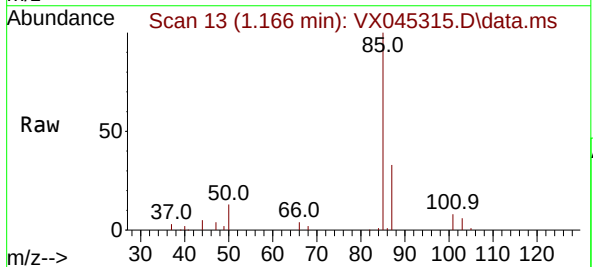
Manual Integrations
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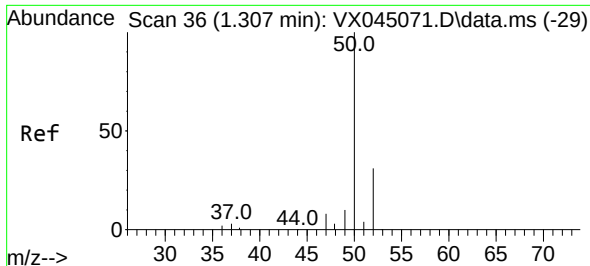
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#2
Dichlorodifluoromethane
Concen: 18.561 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

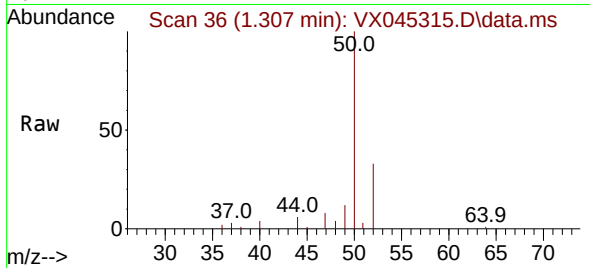
Tgt Ion: 85 Resp: 23648
Ion Ratio Lower Upper
85 100
87 32.6 17.4 52.3





#3
Chloromethane
Concen: 16.714 ug/l
RT: 1.307 min Scan# 30
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

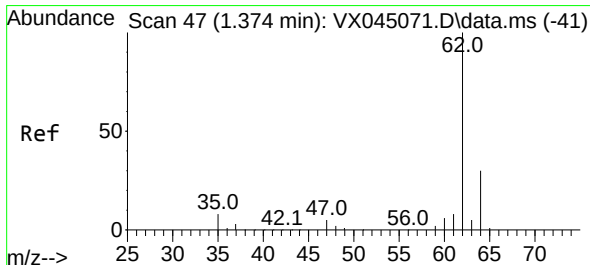
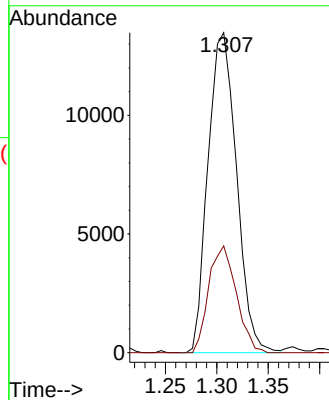
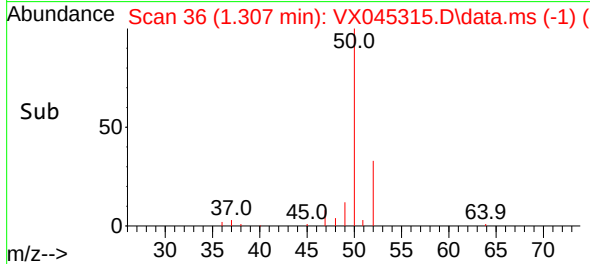
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01



Tgt Ion: 50 Resp: 26060
Ion Ratio Lower Upper
50 100
52 33.4 25.0 37.4

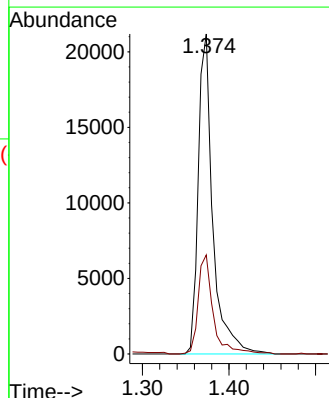
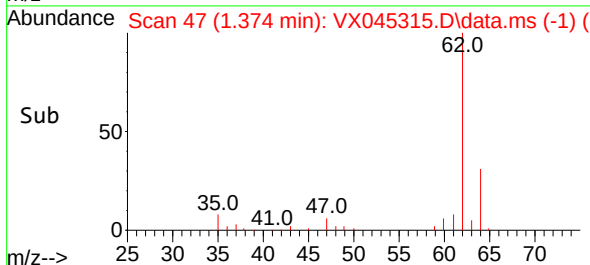
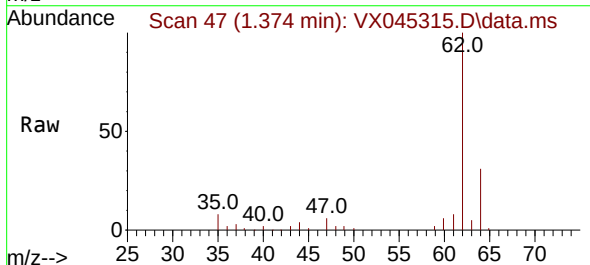
Manual Integrations
APPROVED

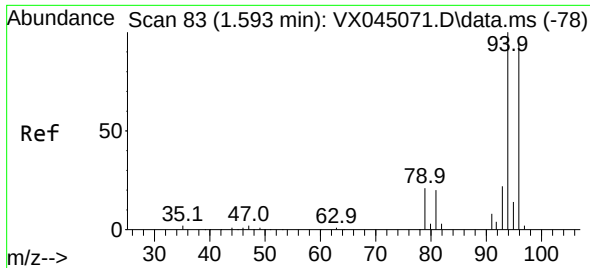
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#4
Vinyl Chloride
Concen: 15.895 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

Tgt Ion: 62 Resp: 24585
Ion Ratio Lower Upper
62 100
64 31.0 24.3 36.5





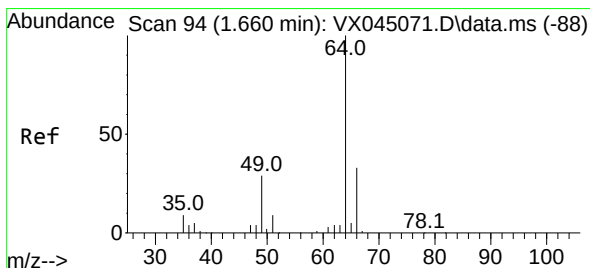
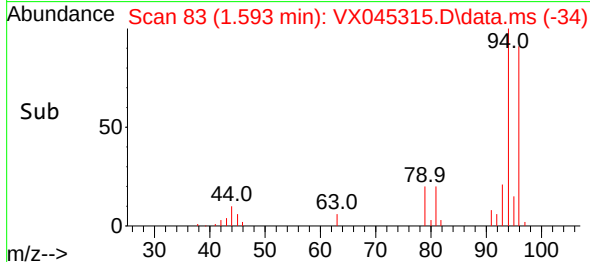
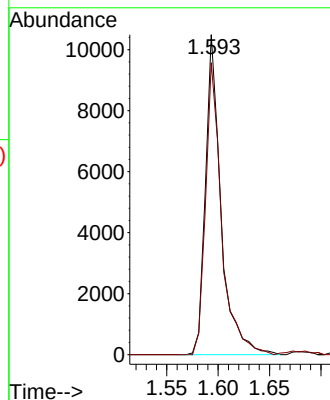
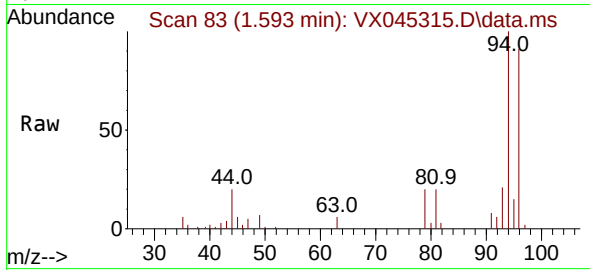
#5
Bromomethane
Concen: 18.232 ug/l
RT: 1.593 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01

Tgt Ion: 94 Resp: 11080
Ion Ratio Lower Upper
94 100
96 91.2 75.0 112.4

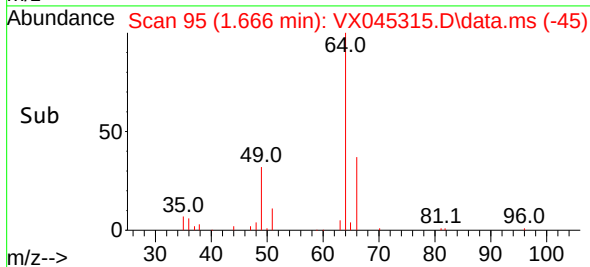
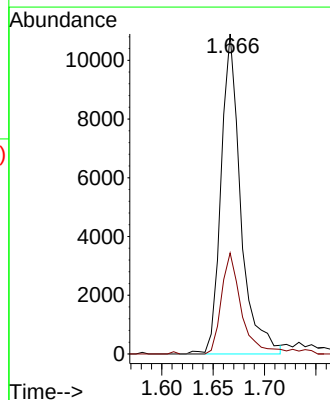
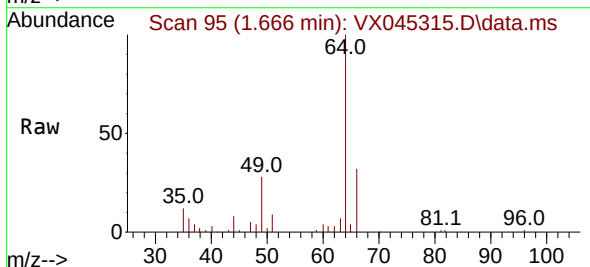
Manual Integrations
APPROVED

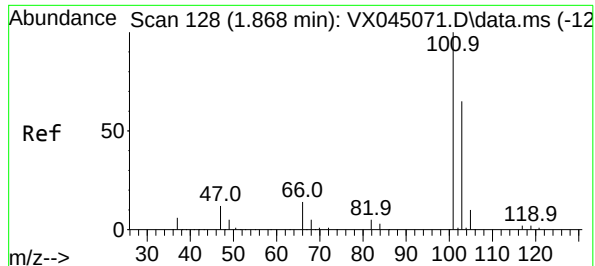
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#6
Chloroethane
Concen: 20.285 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

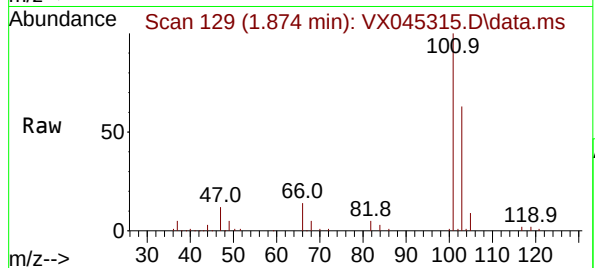
Tgt Ion: 64 Resp: 14472
Ion Ratio Lower Upper
64 100
66 31.5 26.7 40.1





#7
Trichlorofluoromethane
Concen: 18.613 ug/l
RT: 1.874 min Scan# 101
Delta R.T. 0.006 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

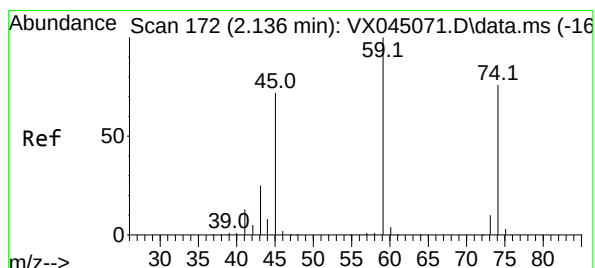
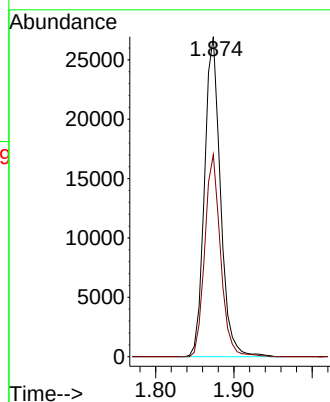
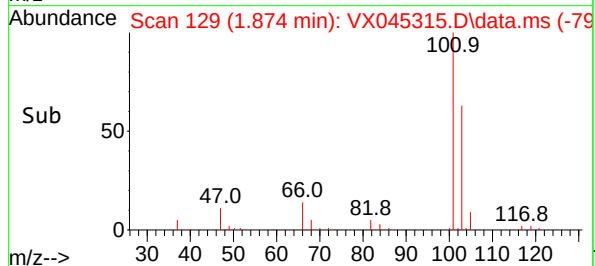
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01



Tgt Ion:101 Resp: 3811
Ion Ratio Lower Upper
101 100
103 63.2 52.1 78.1

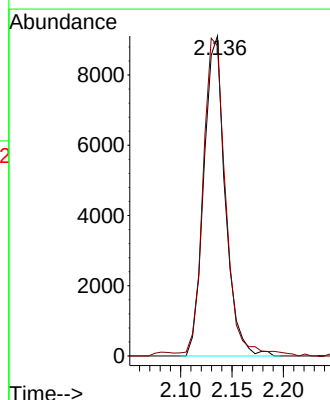
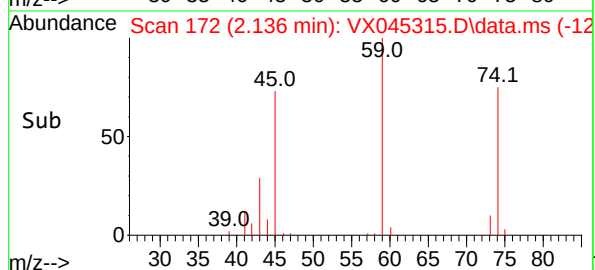
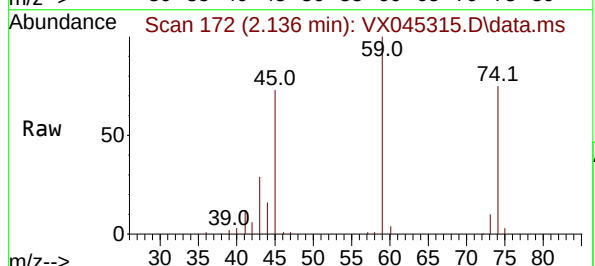
Manual Integrations
APPROVED

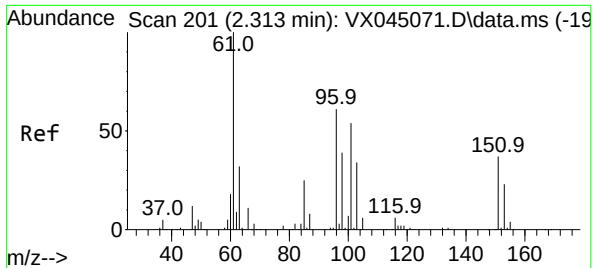
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#8
Diethyl Ether
Concen: 16.415 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

Tgt Ion: 74 Resp: 13147
Ion Ratio Lower Upper
74 100
45 105.3 51.5 154.5





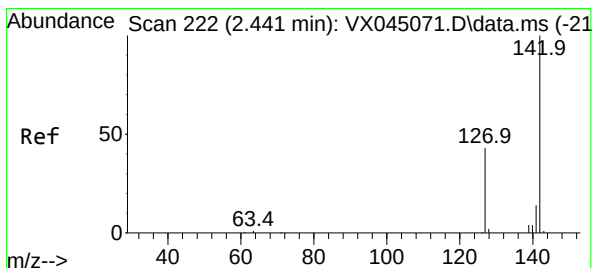
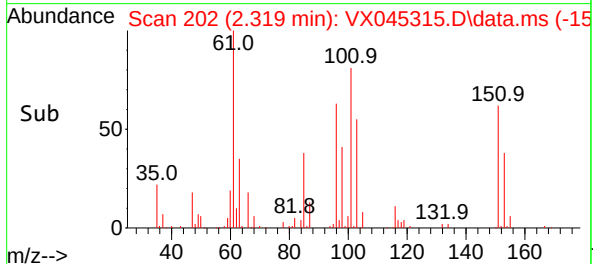
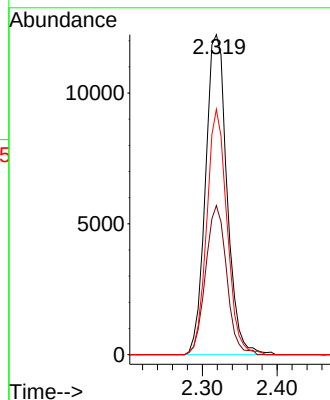
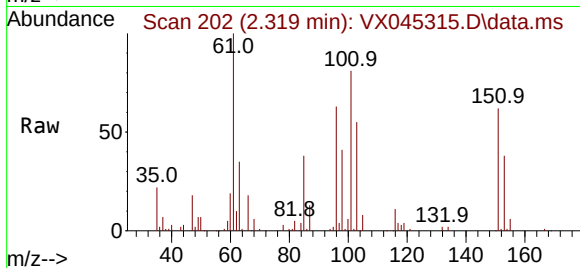
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.751 ug/l
RT: 2.319 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01

Tgt Ion:101 Resp: 2441
Ion Ratio Lower Upper
101 100
85 45.7 36.2 54.4
151 72.4 56.4 84.6

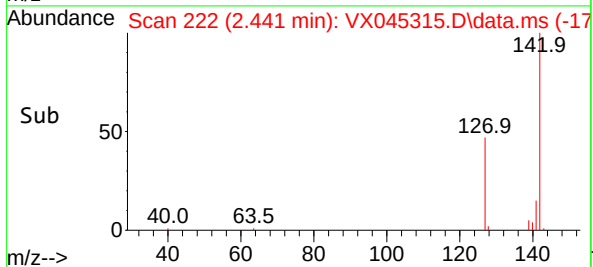
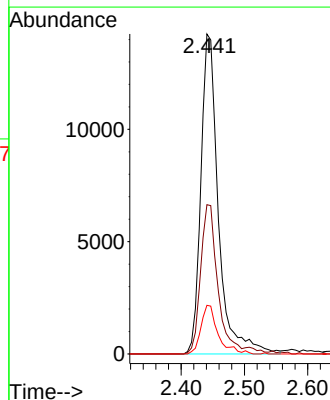
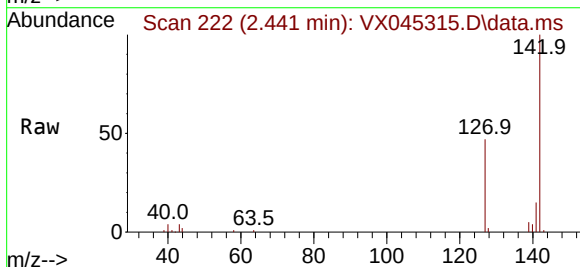
Manual Integrations
APPROVED

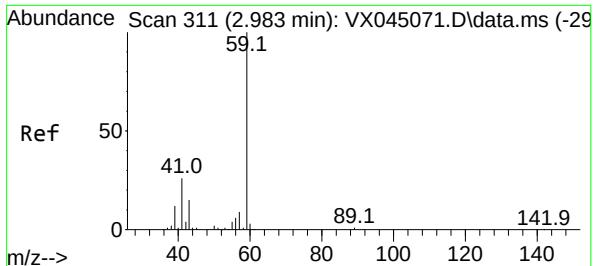
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#10
Methyl Iodide
Concen: 18.736 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

Tgt Ion:142 Resp: 27544
Ion Ratio Lower Upper
142 100
127 47.0 35.4 53.2
141 14.7 11.6 17.4





#11

Tert butyl alcohol

Concen: 78.575 ug/l

RT: 2.977 min Scan# 311

Delta R.T. -0.006 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBS01

Tgt Ion: 59 Resp: 2396

Ion Ratio Lower Upper

59 100

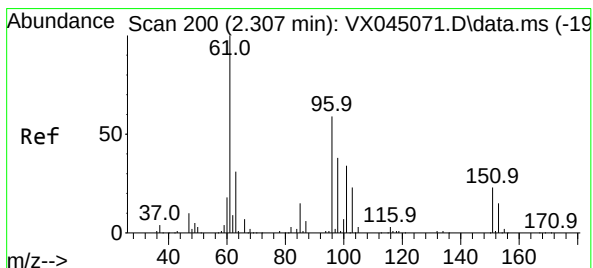
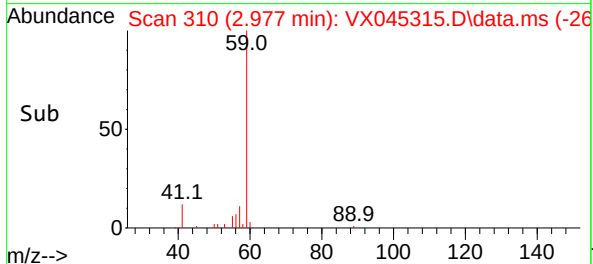
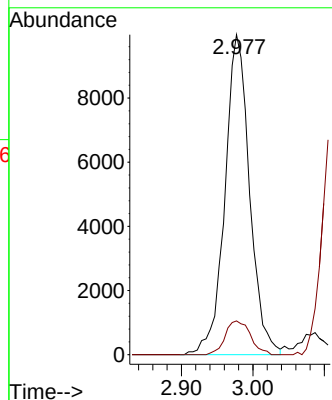
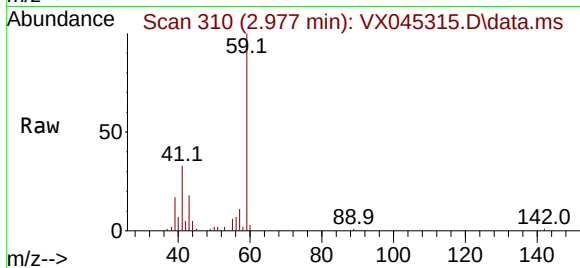
57 10.8 7.8 11.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#12

1,1-Dichloroethene

Concen: 18.466 ug/l

RT: 2.307 min Scan# 200

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

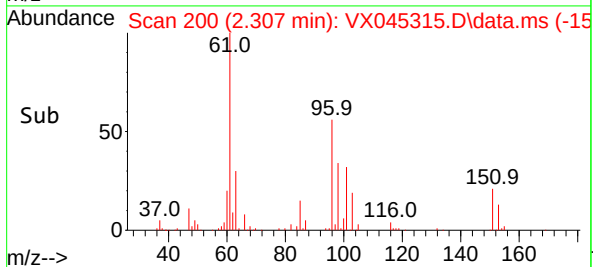
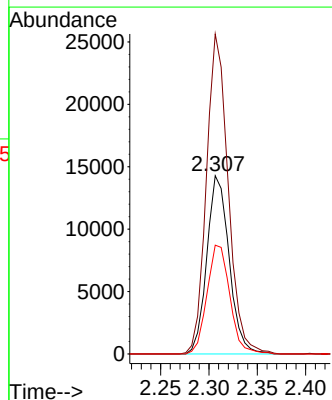
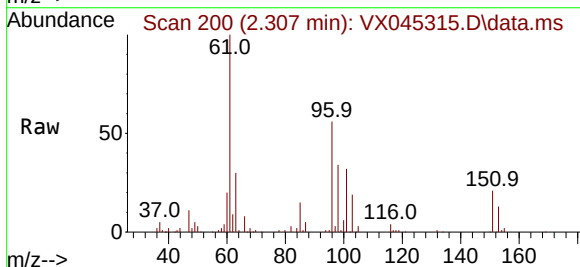
Tgt Ion: 96 Resp: 22967

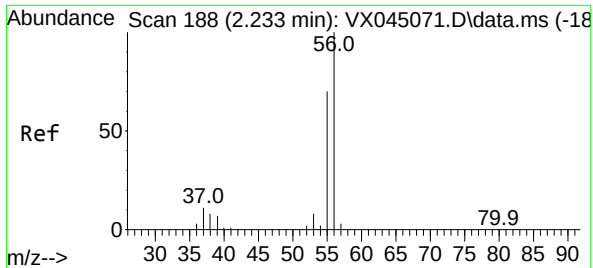
Ion Ratio Lower Upper

96 100

61 179.5 134.6 202.0

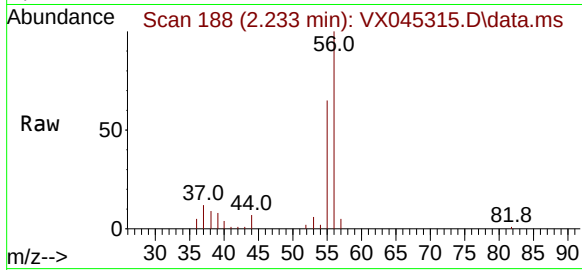
98 61.0 51.0 76.6





#13
Acrolein
Concen: 51.080 ug/l
RT: 2.233 min Scan# 188
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

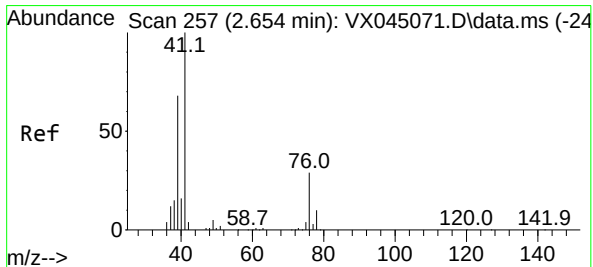
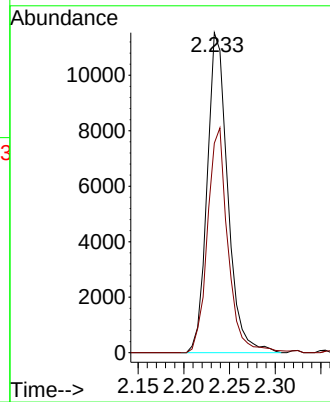
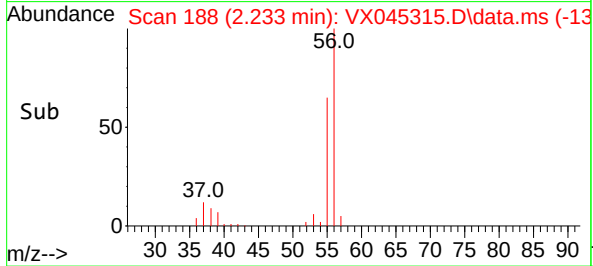
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01



Tgt Ion: 56 Resp: 1800
Ion Ratio Lower Upper
56 100
55 70.0 56.2 84.4

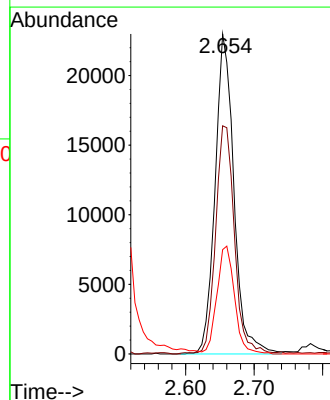
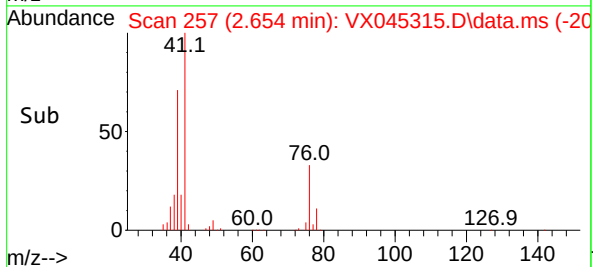
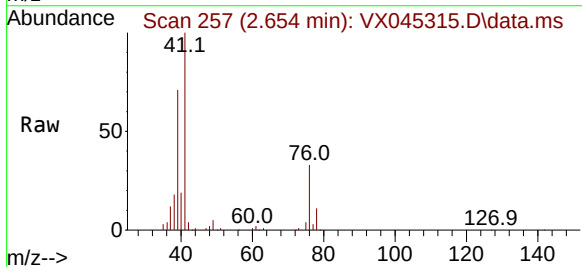
Manual Integrations
APPROVED

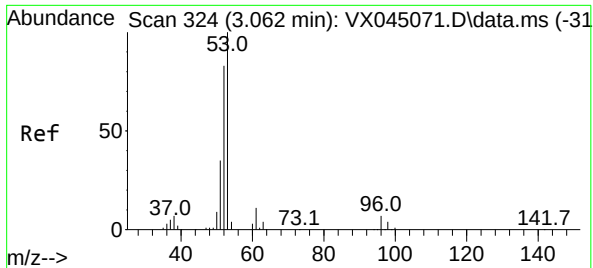
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#14
Allyl chloride
Concen: 19.808 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

Tgt Ion: 41 Resp: 43853
Ion Ratio Lower Upper
41 100
39 71.2 53.8 80.8
76 31.6 25.2 37.8





#15

Acrylonitrile

Concen: 99.811 ug/l

RT: 3.062 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBS01

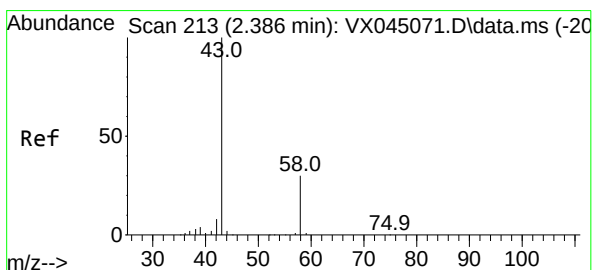
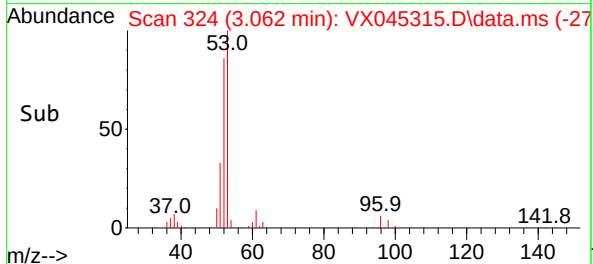
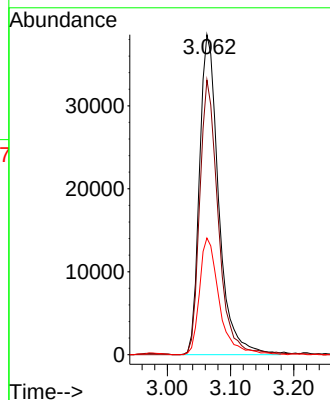
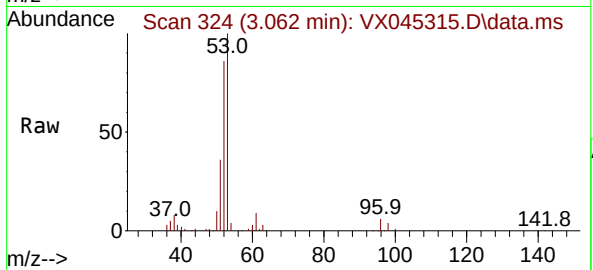
Tgt Ion:	53	Resp:	81578
Ion Ratio	Lower	Upper	
53	100		
52	82.8	66.2	99.2
51	37.5	29.0	43.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#16

Acetone

Concen: 99.433 ug/l

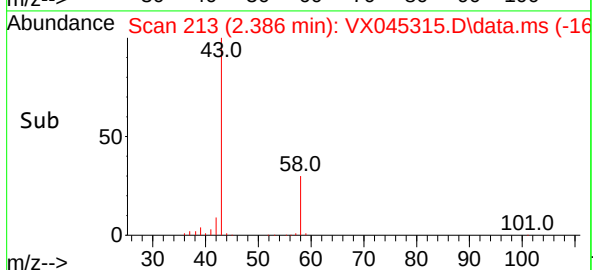
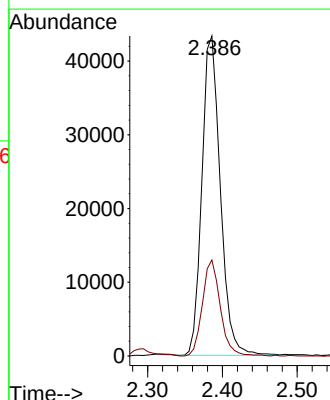
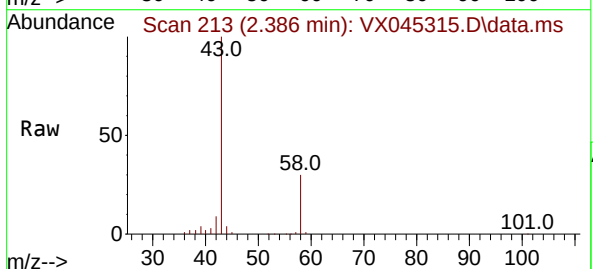
RT: 2.386 min Scan# 213

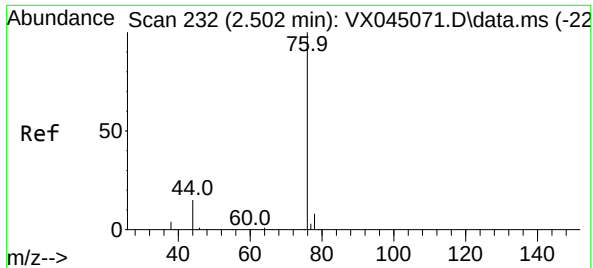
Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

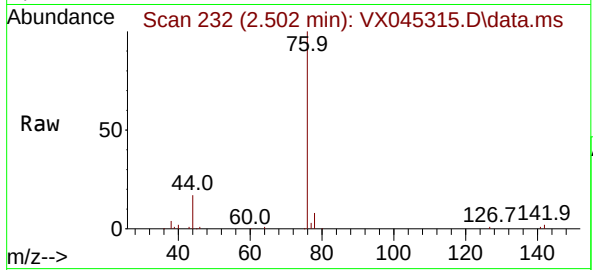
Tgt Ion:	43	Resp:	74275
Ion Ratio	Lower	Upper	
43	100		
58	30.1	24.2	36.4





#17
Carbon Disulfide
Concen: 14.570 ug/l
RT: 2.502 min Scan# 232
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

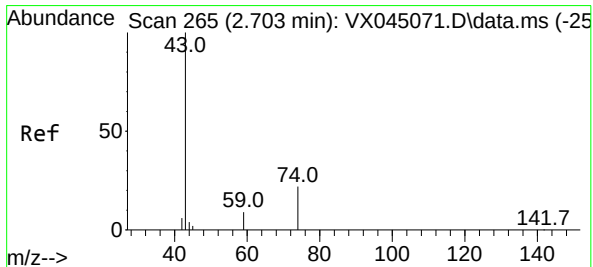
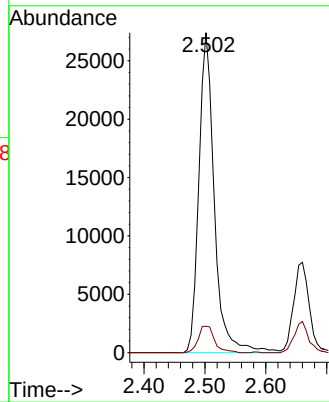
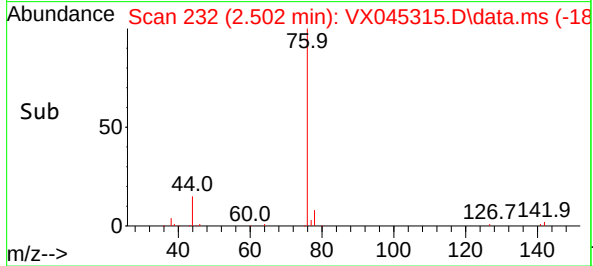
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01



Tgt Ion: 76 Resp: 4826
Ion Ratio Lower Upper
76 100
78 8.2 6.6 9.8

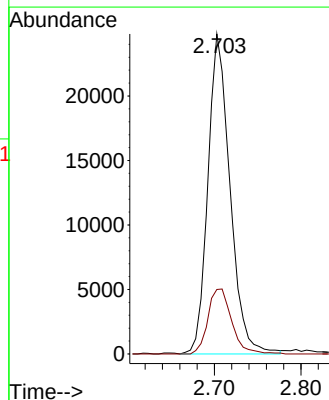
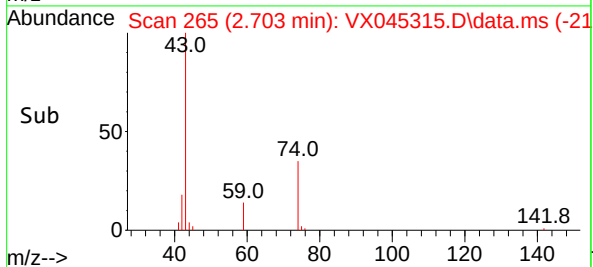
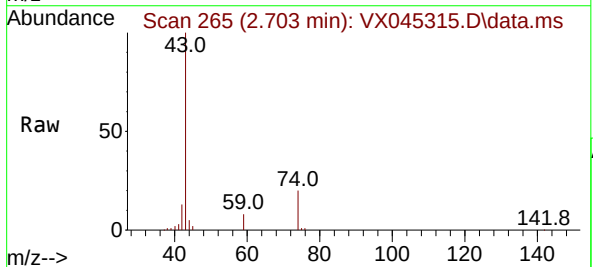
Manual Integrations
APPROVED

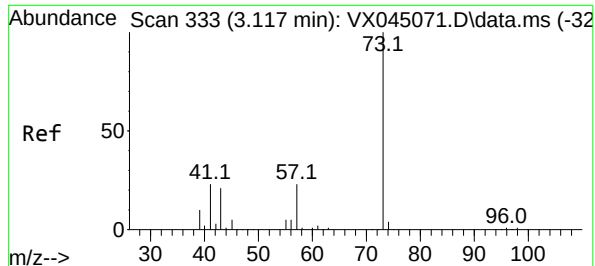
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#18
Methyl Acetate
Concen: 24.493 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

Tgt Ion: 43 Resp: 44014
Ion Ratio Lower Upper
43 100
74 21.9 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 19.773 ug/l

RT: 3.117 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBS01

Tgt Ion: 73 Resp: 8250

Ion Ratio Lower Upper

73 100

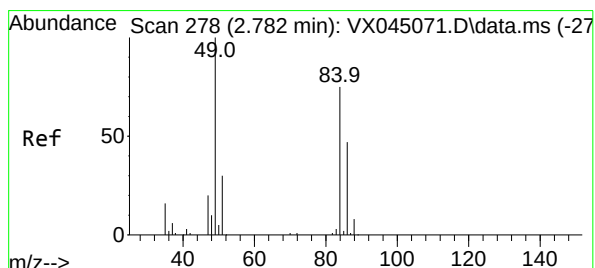
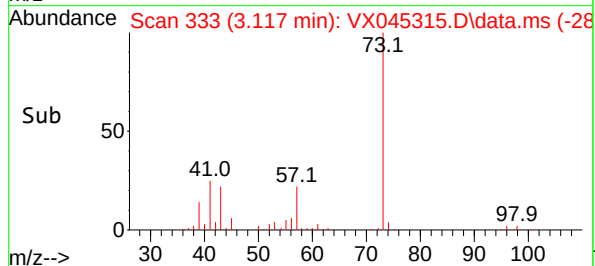
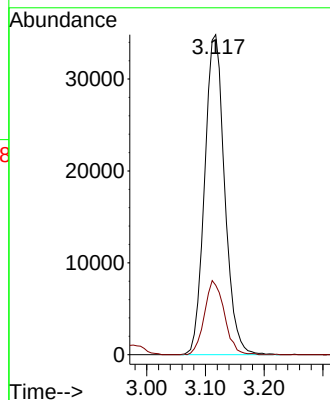
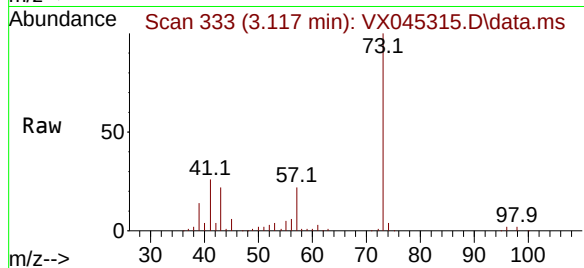
57 21.7 18.5 27.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#20

Methylene Chloride

Concen: 18.782 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Tgt Ion: 84 Resp: 27791

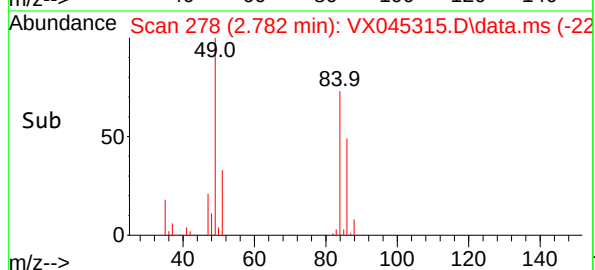
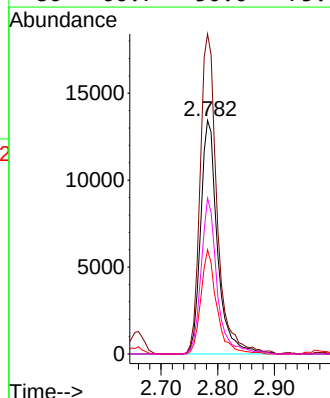
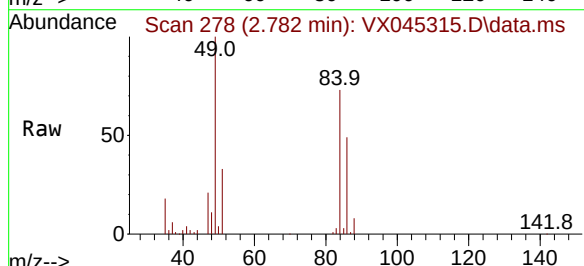
Ion Ratio Lower Upper

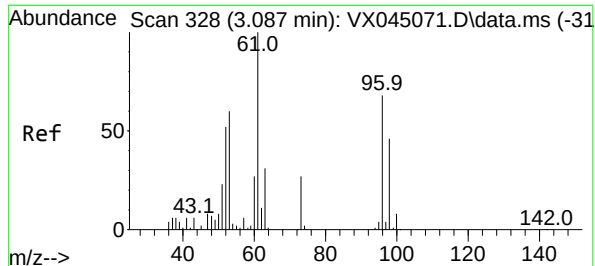
84 100

49 137.0 106.5 159.7

51 44.6 32.1 48.1

86 66.7 50.0 75.0





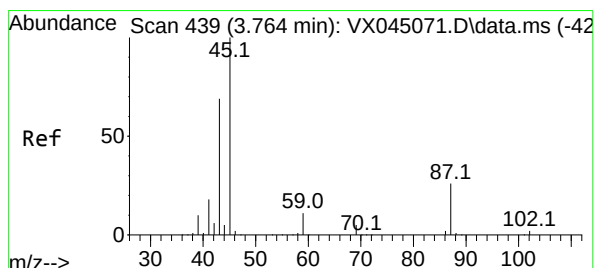
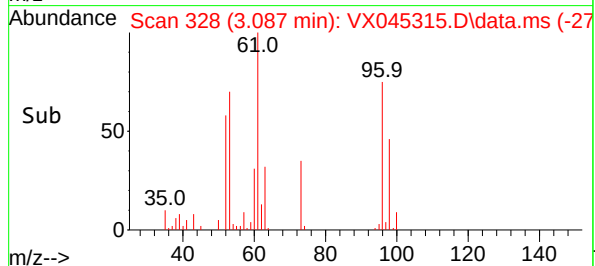
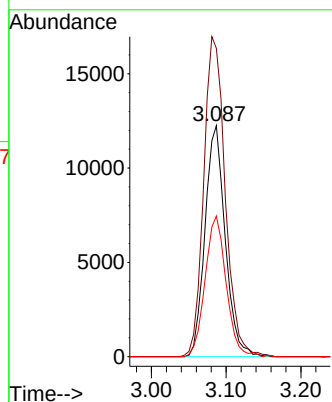
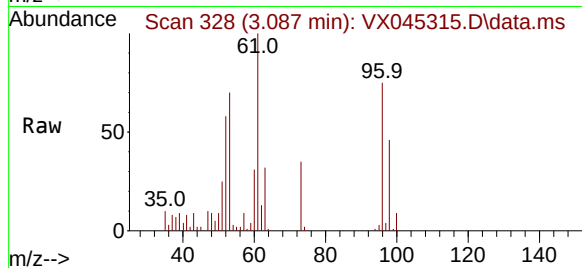
#21
trans-1,2-Dichloroethene
Concen: 18.742 ug/l
RT: 3.087 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01

Tgt Ion: 96 Resp: 23029
Ion Ratio Lower Upper
96 100
61 133.5 117.0 175.4
98 60.9 53.4 80.2

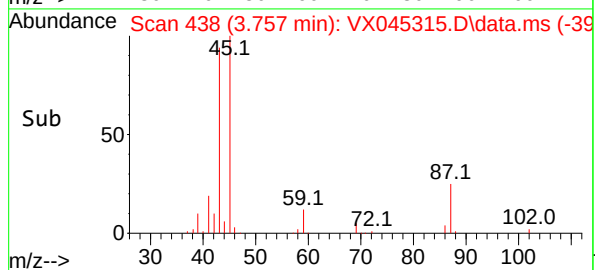
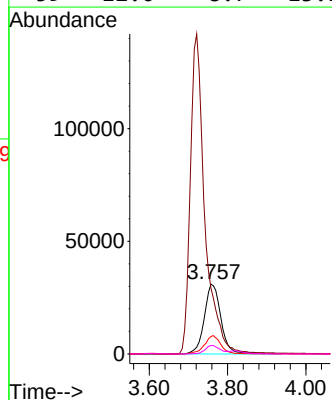
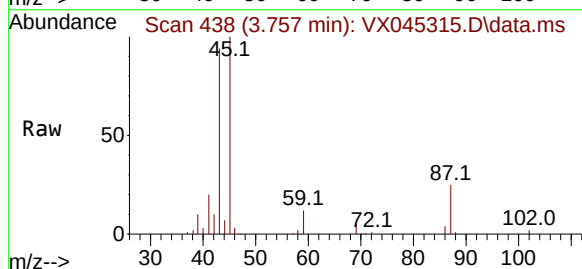
Manual Integrations
APPROVED

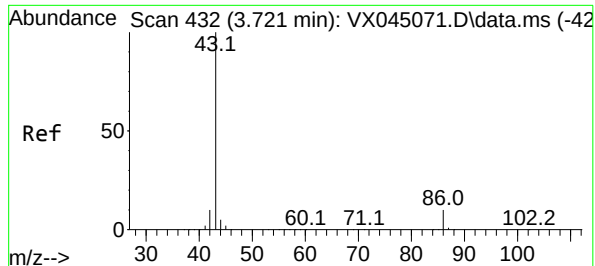
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#22
Diisopropyl ether
Concen: 20.287 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

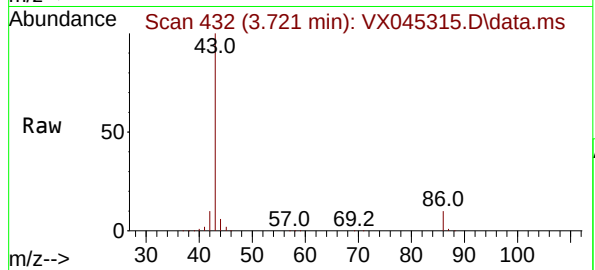
Tgt Ion: 45 Resp: 91341
Ion Ratio Lower Upper
45 100
43 93.3 54.9 82.3#
87 25.1 21.0 31.4
59 12.0 8.7 13.1





#23
 Vinyl Acetate
 Concen: 98.077 ug/l
 RT: 3.721 min Scan# 413
 Delta R.T. 0.000 min
 Lab File: VX045315.D
 Acq: 18 Mar 2025 11:16

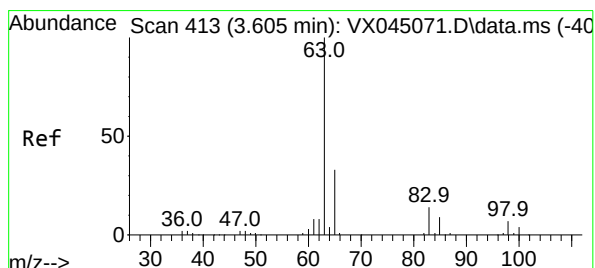
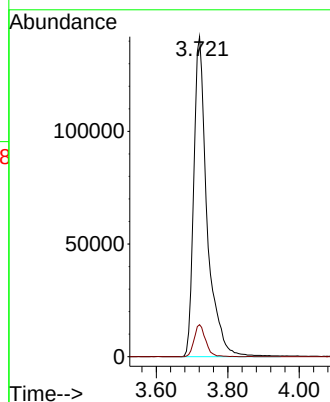
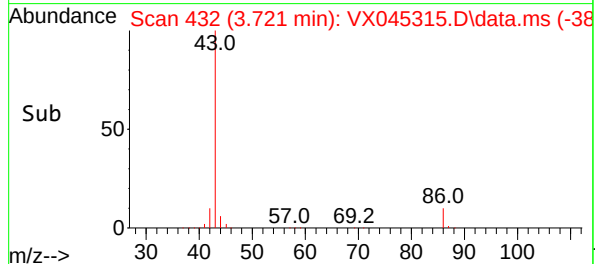
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0318WBS01



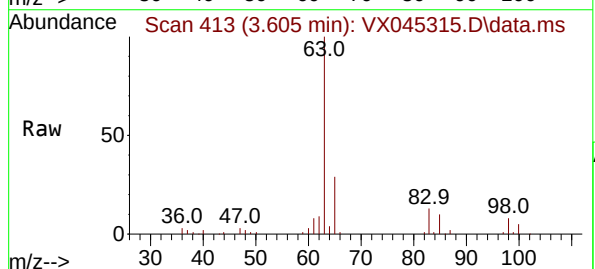
Tgt Ion: 43 Resp: 368514
 Ion Ratio Lower Upper
 43 100
 86 10.0 8.1 12.1

Manual Integrations
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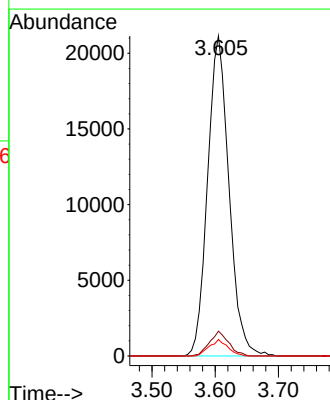
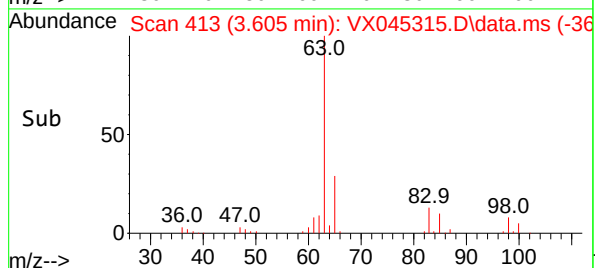
Reviewed By :John Carlone 03/19/2025
 Supervised By :Mahesh Dadoda 03/19/2025

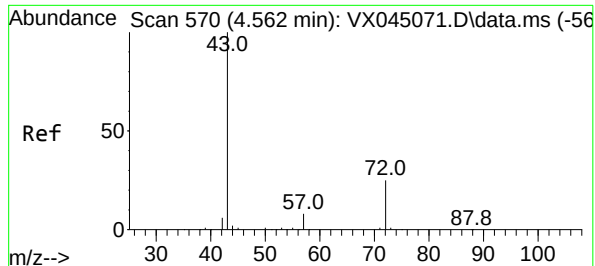


#24
 1,1-Dichloroethane
 Concen: 19.695 ug/l
 RT: 3.605 min Scan# 413
 Delta R.T. 0.000 min
 Lab File: VX045315.D
 Acq: 18 Mar 2025 11:16



Tgt Ion: 63 Resp: 49698
 Ion Ratio Lower Upper
 63 100
 98 7.8 3.4 10.2
 100 5.1 2.1 6.5





#25

2-Butanone

Concen: 102.970 ug/l

RT: 4.556 min Scan# 50

Delta R.T. -0.006 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBS01

Tgt Ion: 43 Resp: 115779

Ion Ratio Lower Upper

43 100

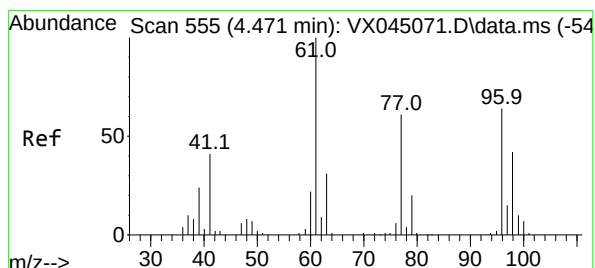
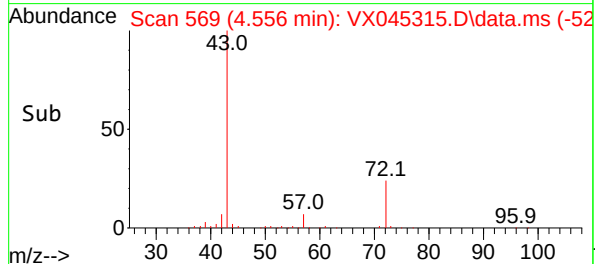
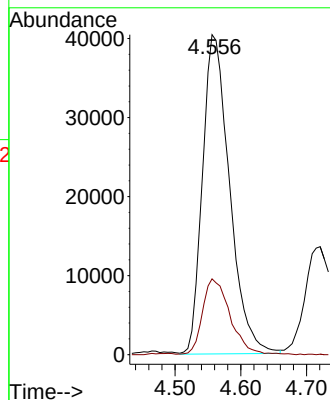
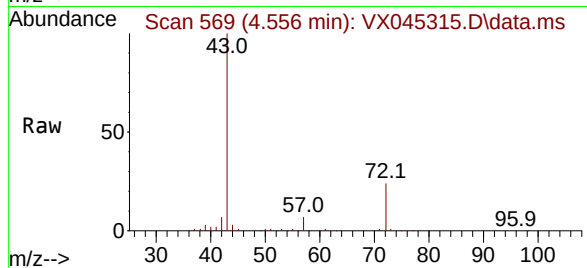
72 23.6 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#26

2,2-Dichloropropane

Concen: 27.919 ug/l

RT: 4.477 min Scan# 556

Delta R.T. 0.006 min

Lab File: VX045315.D

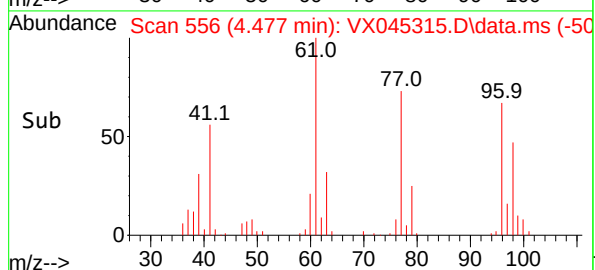
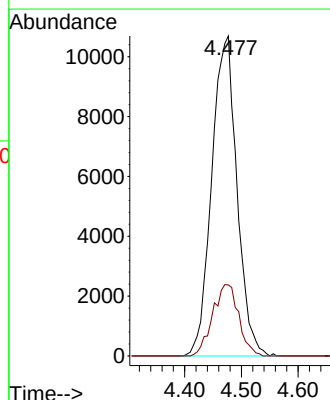
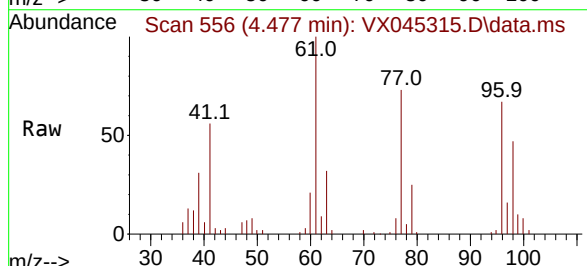
Acq: 18 Mar 2025 11:16

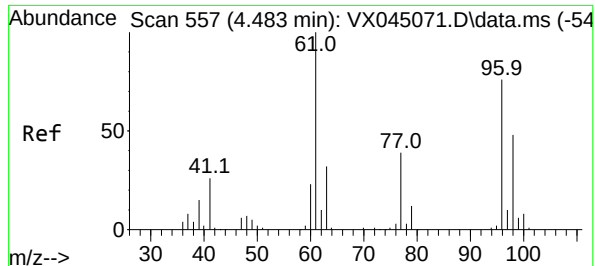
Tgt Ion: 77 Resp: 33045

Ion Ratio Lower Upper

77 100

97 23.0 12.4 37.0





#27

cis-1,2-Dichloroethene

Concen: 19.599 ug/l

RT: 4.483 min Scan# 557

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBS01

Tgt Ion: 96 Resp: 29728

Ion Ratio Lower Upper

96 100

61 149.2 0.0 283.2

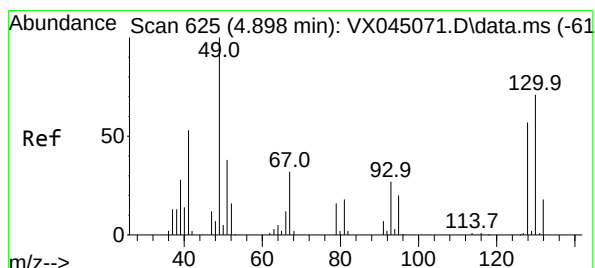
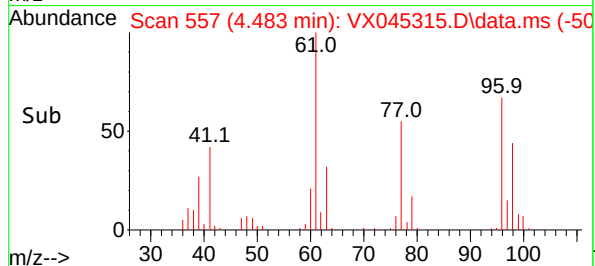
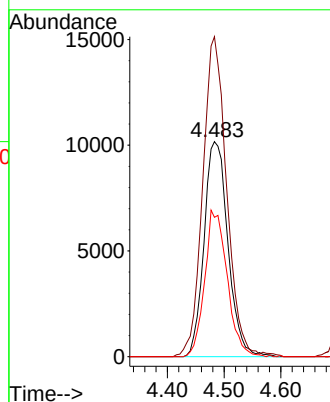
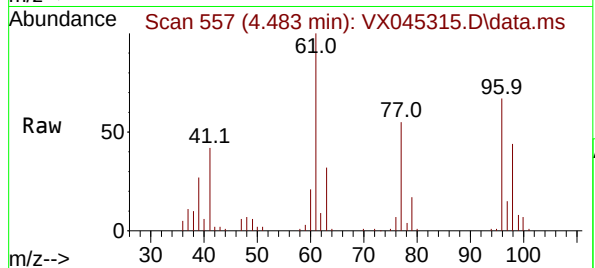
98 64.1 0.0 128.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#28

Bromochloromethane

Concen: 21.837 ug/l

RT: 4.898 min Scan# 625

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

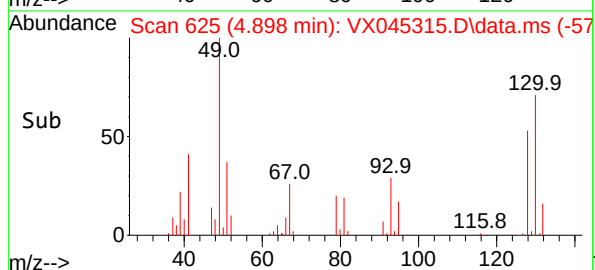
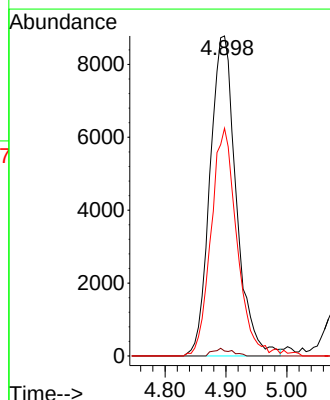
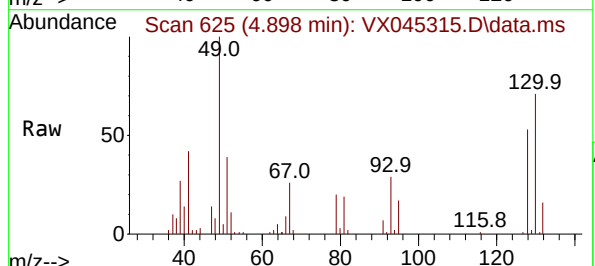
Tgt Ion: 49 Resp: 26265

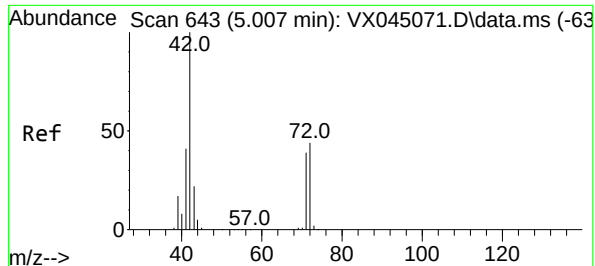
Ion Ratio Lower Upper

49 100

129 1.7 0.0 3.4

130 69.8 56.1 84.1





#29

Tetrahydrofuran

Concen: 96.628 ug/l

RT: 5.007 min Scan# 643

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBS01

Tgt Ion: 42 Resp: 7296

Ion Ratio Lower Upper

42 100

72 43.4 34.1 51.1

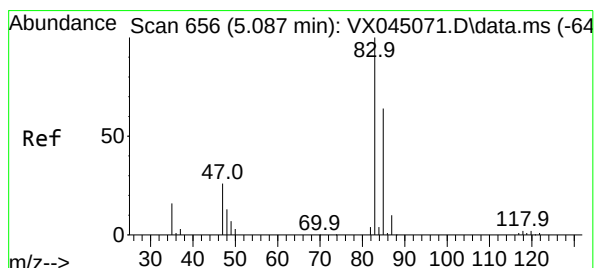
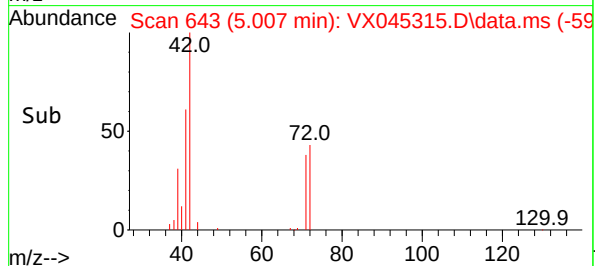
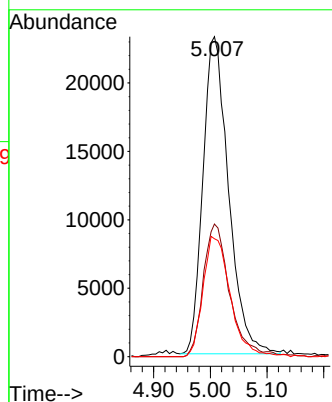
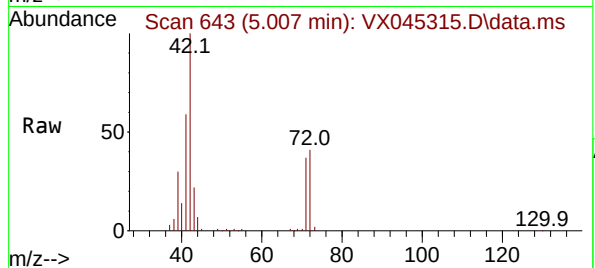
71 39.9 31.4 47.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#30

Chloroform

Concen: 20.477 ug/l

RT: 5.087 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX045315.D

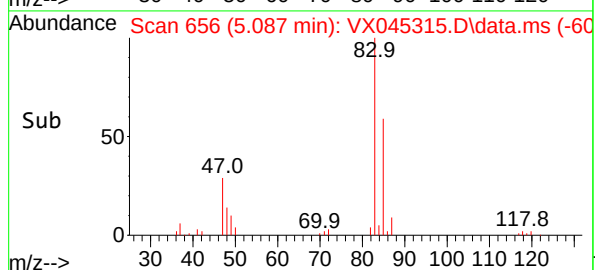
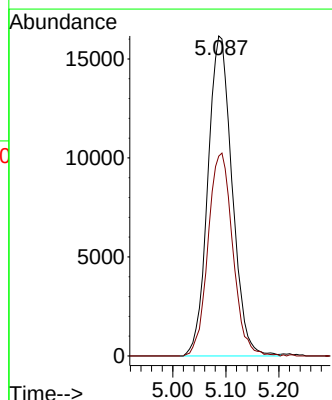
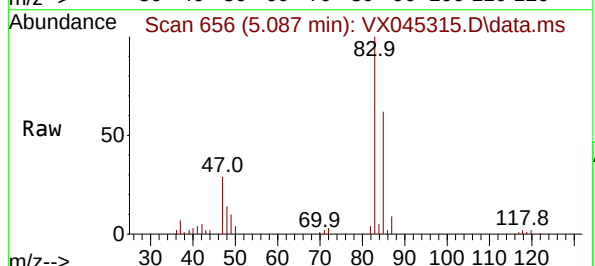
Acq: 18 Mar 2025 11:16

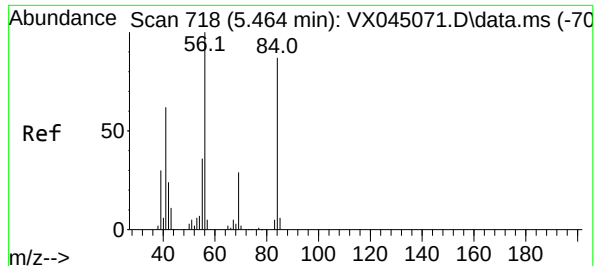
Tgt Ion: 83 Resp: 51341

Ion Ratio Lower Upper

83 100

85 62.4 51.4 77.2





#31

Cyclohexane

Concen: 18.606 ug/l

RT: 5.465 min Scan# 718

Delta R.T. 0.000 min

Lab File: VX045315.D

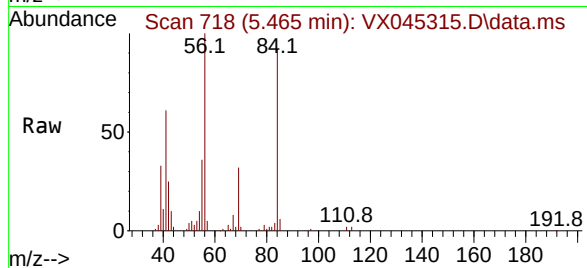
Acq: 18 Mar 2025 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBS01



Tgt Ion: 56 Resp: 4075

Ion Ratio Lower Upper

56 100

69 31.8 23.4 35.2

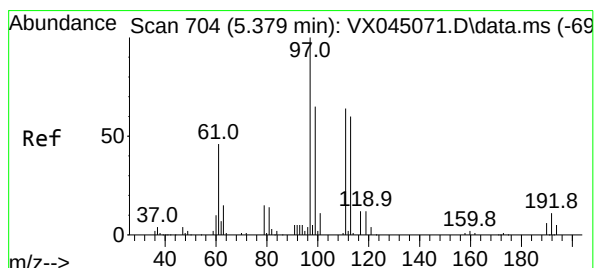
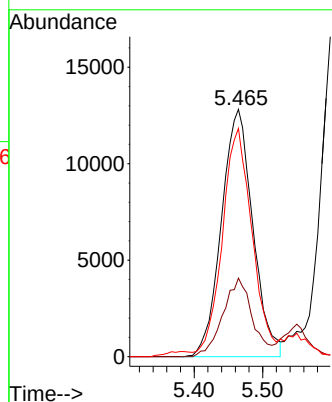
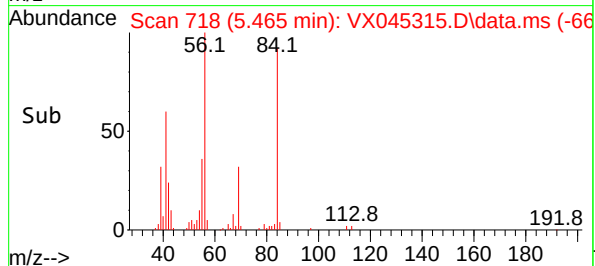
84 90.3 69.4 104.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#32

1,1,1-Trichloroethane

Concen: 20.038 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

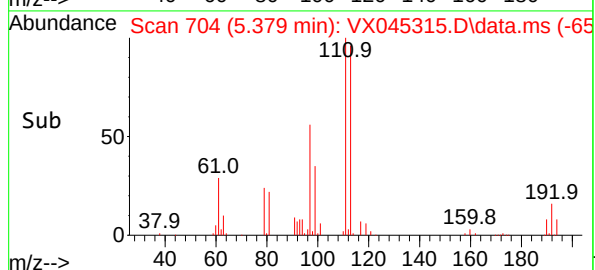
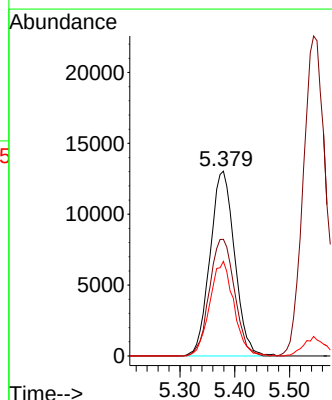
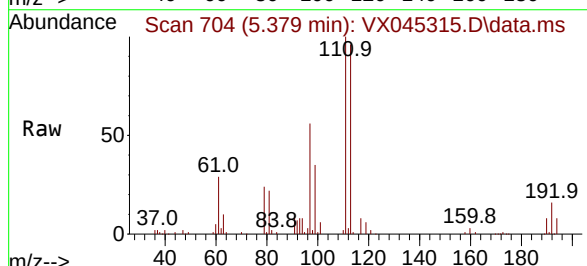
Tgt Ion: 97 Resp: 40576

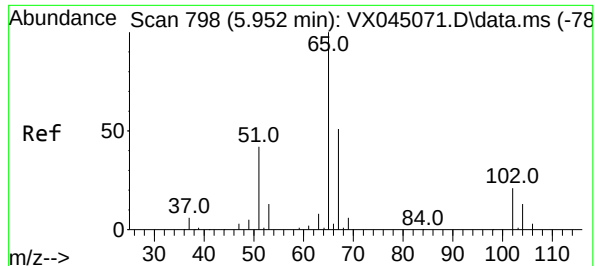
Ion Ratio Lower Upper

97 100

99 64.6 51.6 77.4

61 50.2 38.4 57.6





#33

1,2-Dichloroethane-d4

Concen: 53.211 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBS01

Tgt Ion: 65 Resp: 85669

Ion Ratio Lower Upper

65 100

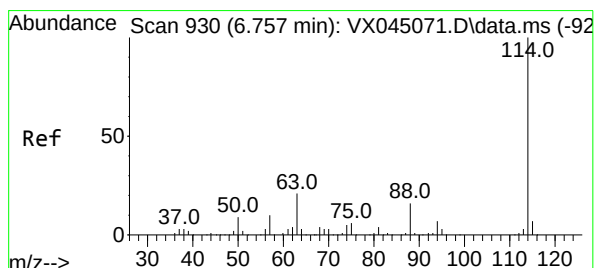
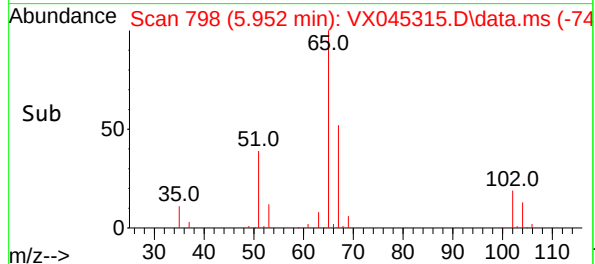
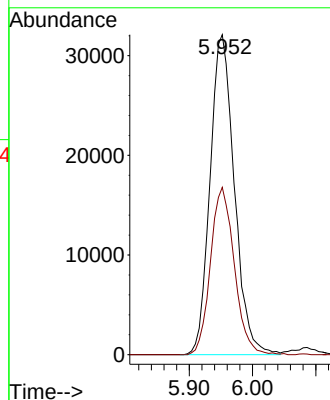
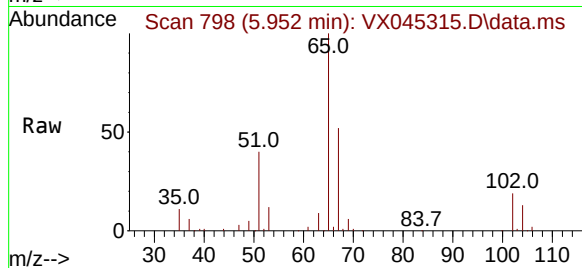
67 51.3 0.0 106.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

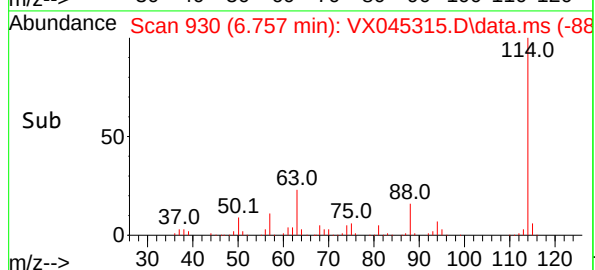
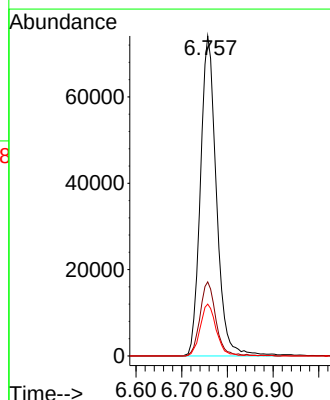
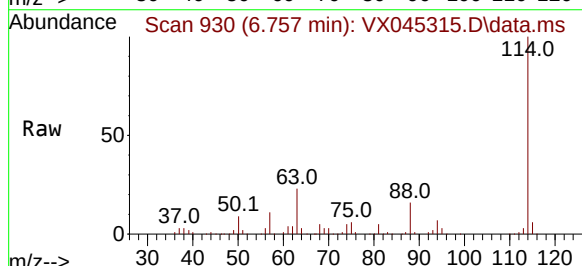
Tgt Ion:114 Resp: 179978

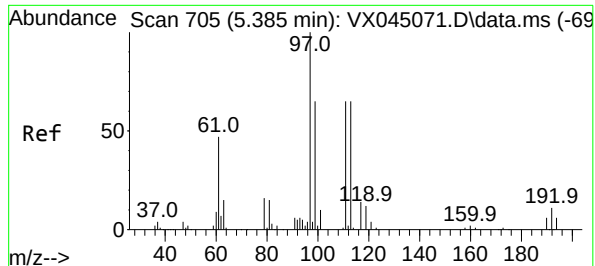
Ion Ratio Lower Upper

114 100

63 23.2 0.0 41.8

88 16.2 0.0 32.8





#35

Dibromofluoromethane

Concen: 52.902 ug/l

RT: 5.379 min Scan# 705

Delta R.T. -0.006 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBS01

Tgt Ion:113 Resp: 6366

Ion Ratio Lower Upper

113 100

111 103.8 81.8 122.6

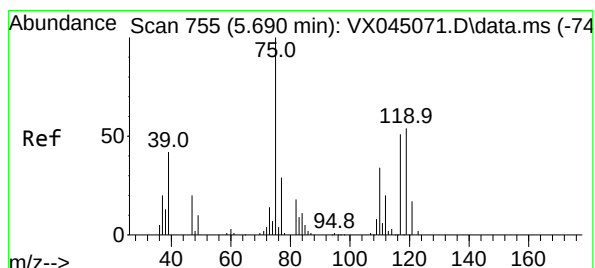
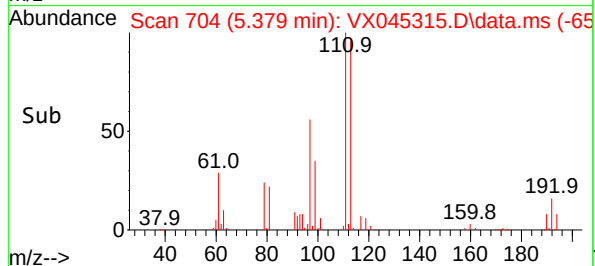
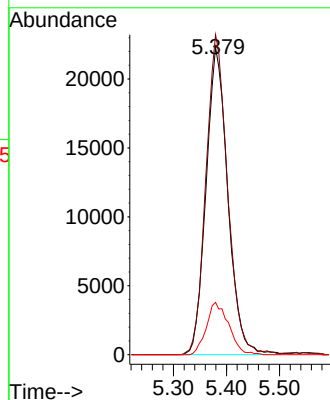
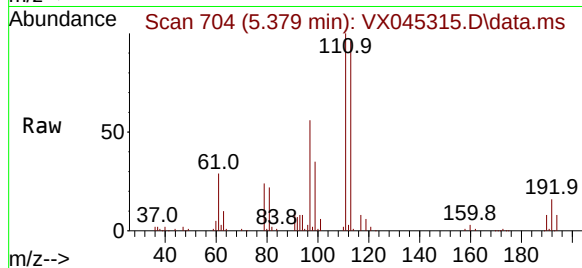
192 17.4 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#36

1,1-Dichloropropene

Concen: 19.843 ug/l

RT: 5.690 min Scan# 755

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

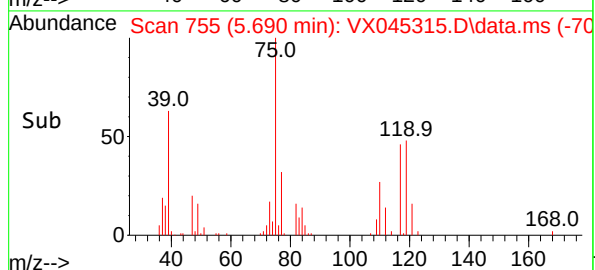
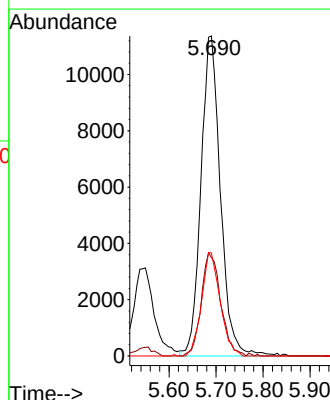
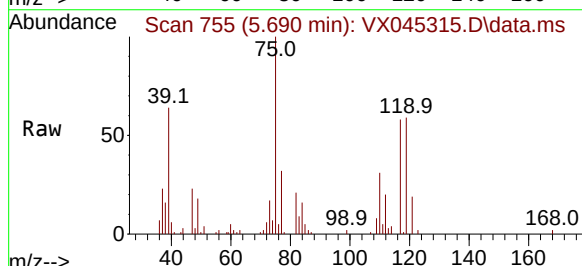
Tgt Ion: 75 Resp: 32750

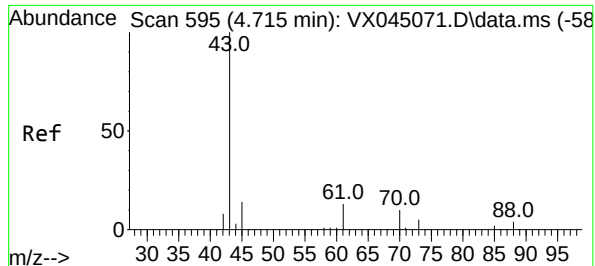
Ion Ratio Lower Upper

75 100

110 32.0 16.9 50.6

77 30.9 24.5 36.7





#37

Ethyl Acetate

Concen: 19.701 ug/l

RT: 4.721 min Scan# 596

Delta R.T. 0.006 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBS01

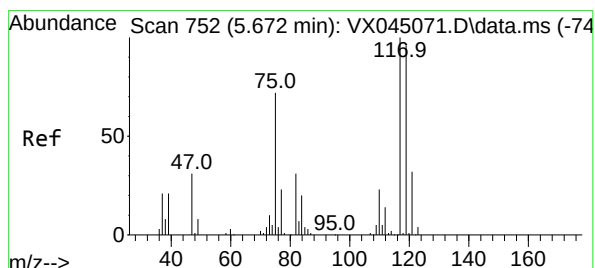
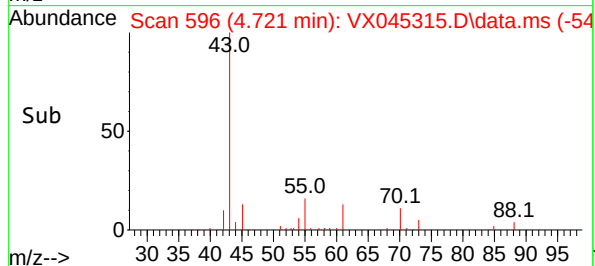
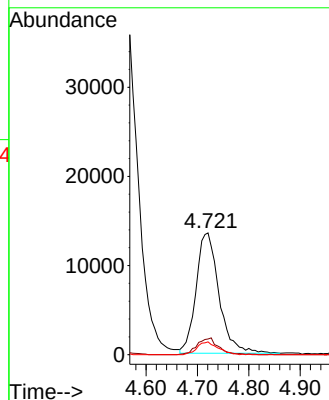
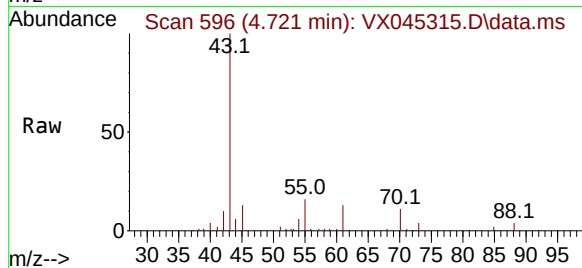
Tgt Ion:	43	Resp:	4189
Ion Ratio	Lower	Upper	
43	100		
61	13.0	10.8	16.2
70	9.8	7.7	11.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#38

Carbon Tetrachloride

Concen: 19.691 ug/l

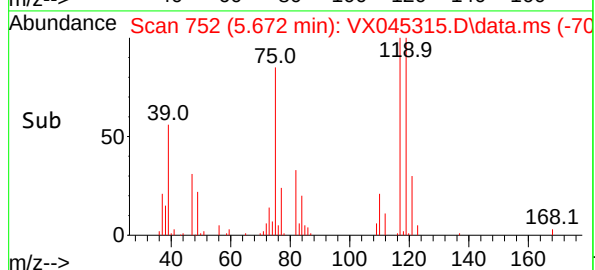
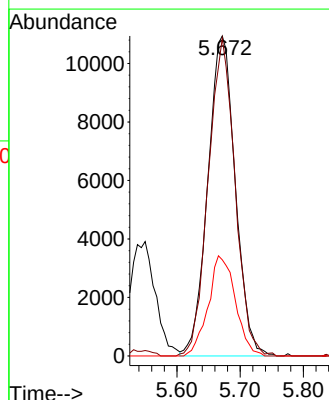
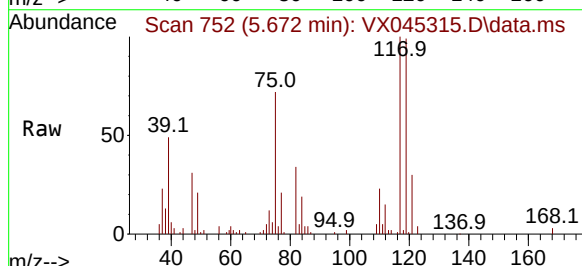
RT: 5.672 min Scan# 752

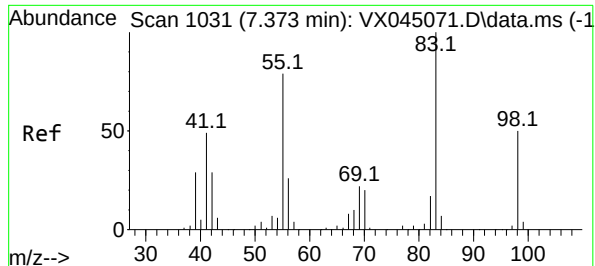
Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Tgt Ion:	117	Resp:	32994
Ion Ratio	Lower	Upper	
117	100		
119	99.3	76.7	115.1
121	30.1	25.5	38.3





#39

Methylcyclohexane

Concen: 19.833 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBS01

Tgt Ion: 83 Resp: 3922

Ion Ratio Lower Upper

83 100

55 83.9 63.0 94.4

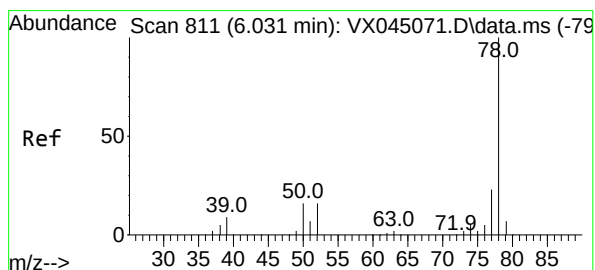
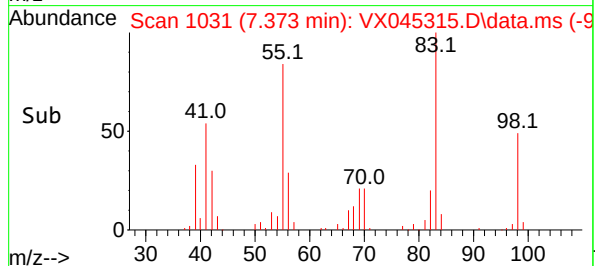
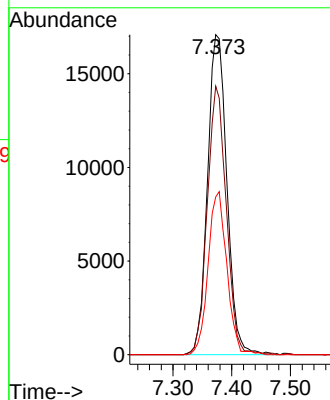
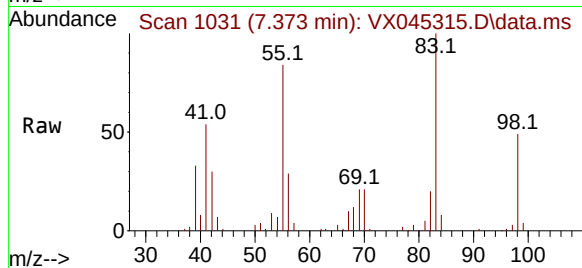
98 49.3 39.7 59.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#40

Benzene

Concen: 19.688 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX045315.D

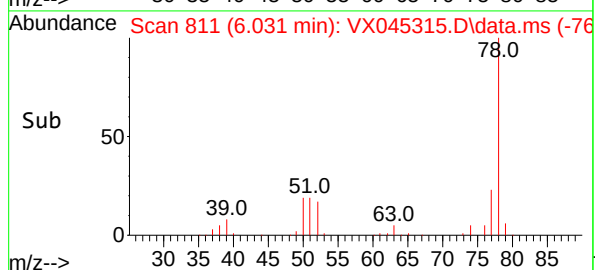
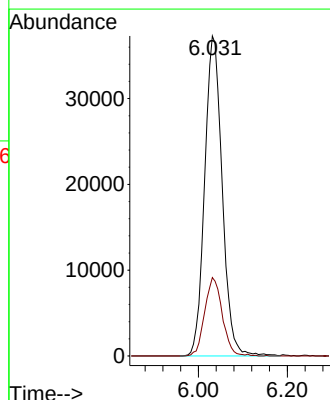
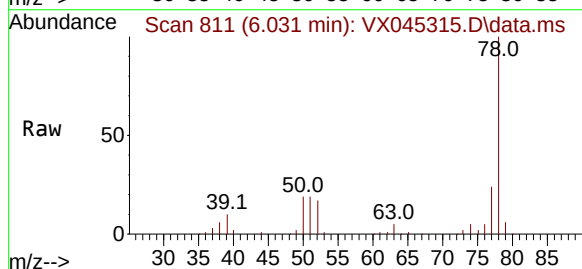
Acq: 18 Mar 2025 11:16

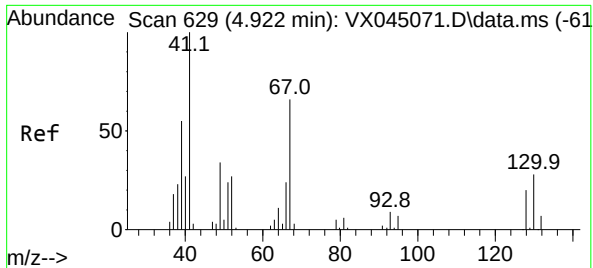
Tgt Ion: 78 Resp: 102609

Ion Ratio Lower Upper

78 100

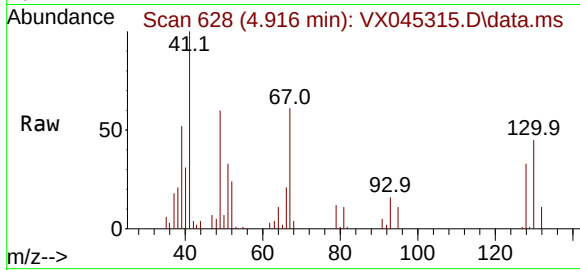
77 24.5 18.8 28.2





#41
Methacrylonitrile
Concen: 20.079 ug/l
RT: 4.916 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

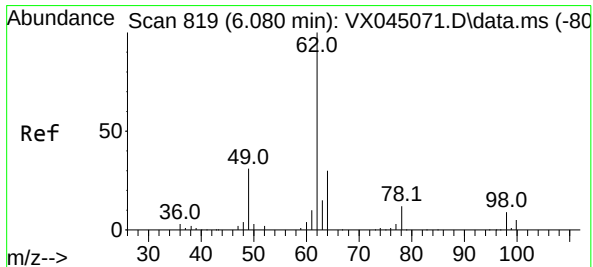
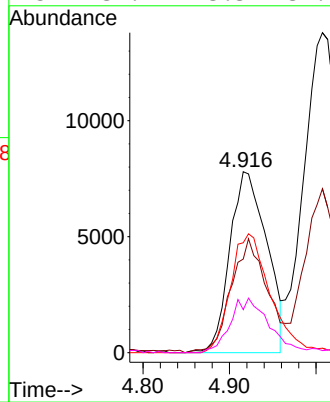
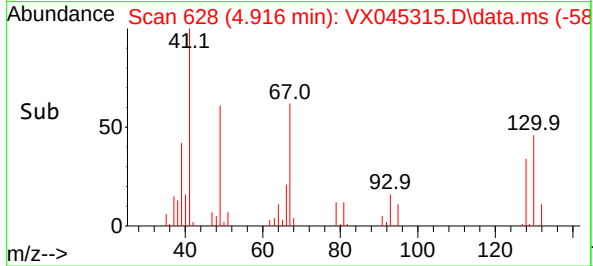
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01



Tgt Ion: 41 Resp: 23090
Ion Ratio Lower Upper
41 100
39 61.9 44.6 67.0
67 71.0 53.9 80.9
52 31.2 23.3 34.9

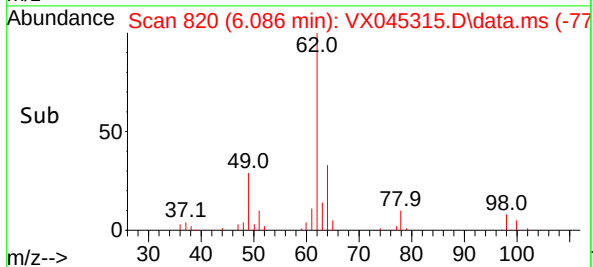
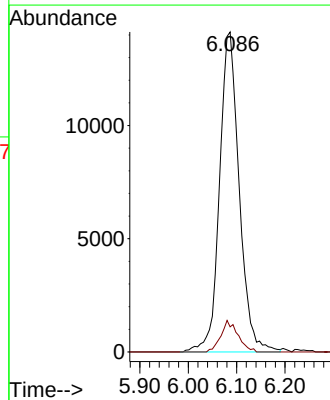
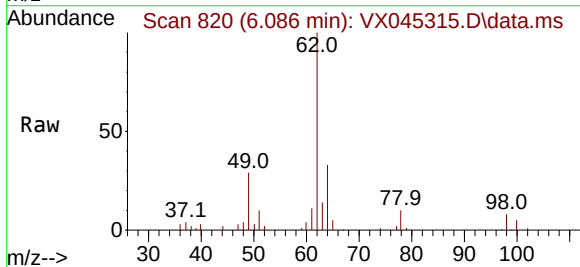
Manual Integrations
APPROVED

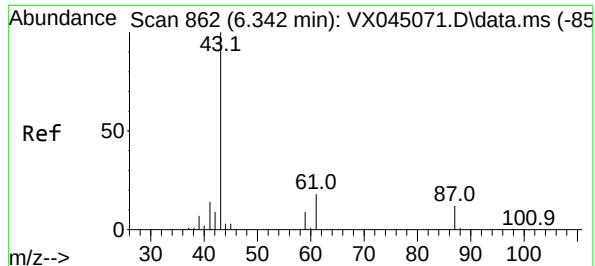
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#42
1,2-Dichloroethane
Concen: 21.290 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

Tgt Ion: 62 Resp: 39956
Ion Ratio Lower Upper
62 100
98 8.5 0.0 18.2





#43

Isopropyl Acetate

Concen: 20.338 ug/l

RT: 6.342 min Scan# 80

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBS01

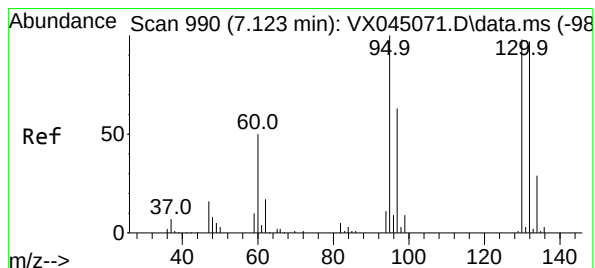
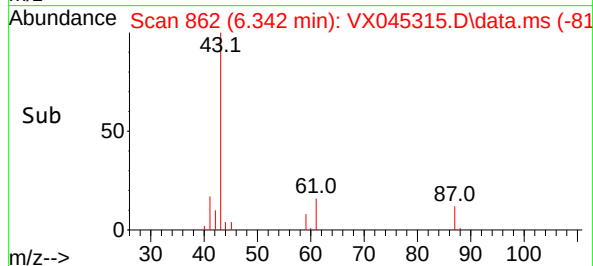
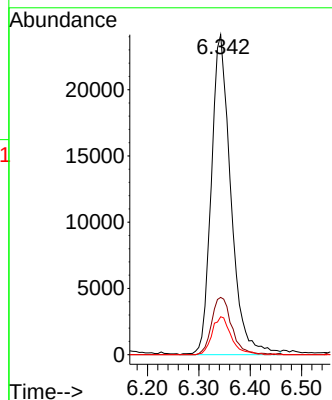
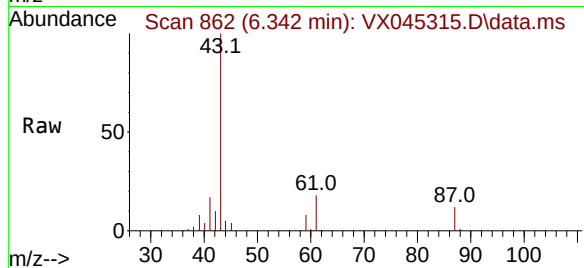
Tgt Ion:	43	Resp:	6395
Ion	Ratio	Lower	Upper
43	100		
61	18.3	14.9	22.3
87	11.6	9.4	14.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#44

Trichloroethene

Concen: 18.874 ug/l

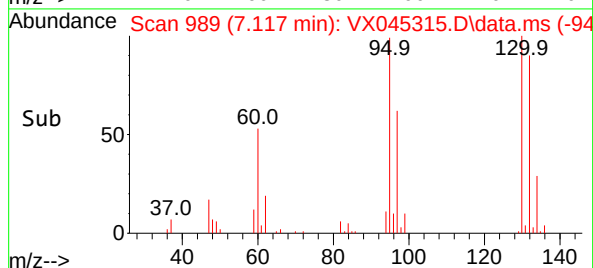
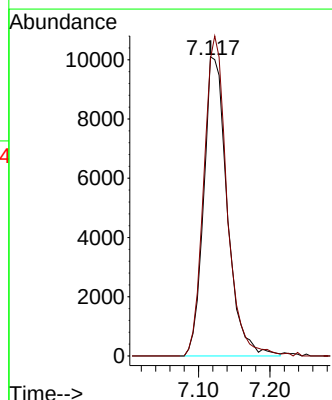
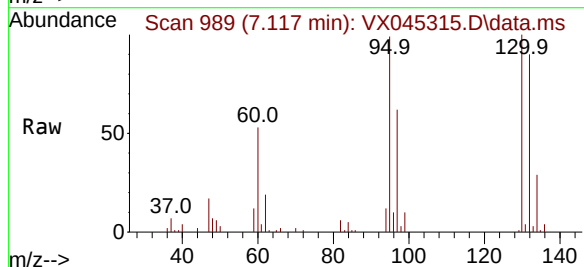
RT: 7.117 min Scan# 989

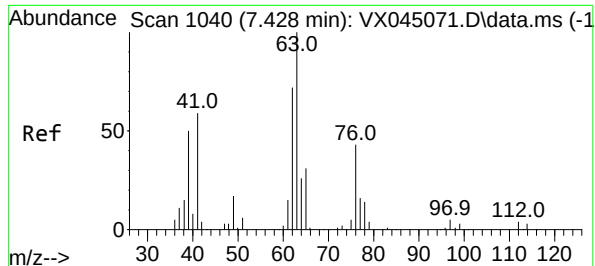
Delta R.T. -0.006 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Tgt Ion:	130	Resp:	23097
Ion	Ratio	Lower	Upper
130	100		
95	99.3	0.0	205.0





#45

1,2-Dichloropropane

Concen: 19.844 ug/l

RT: 7.428 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBS01

Tgt Ion: 63 Resp: 2659

Ion Ratio Lower Upper

63 100

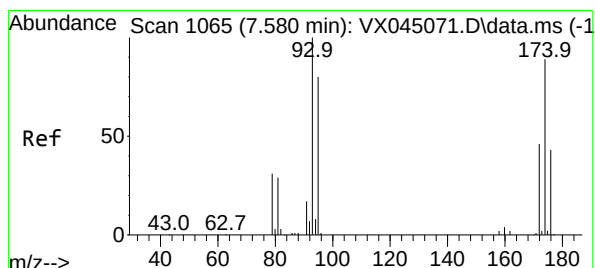
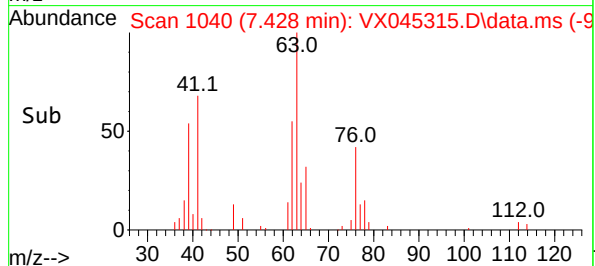
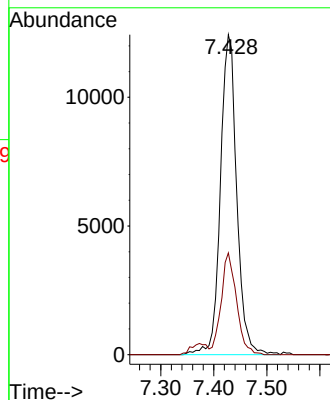
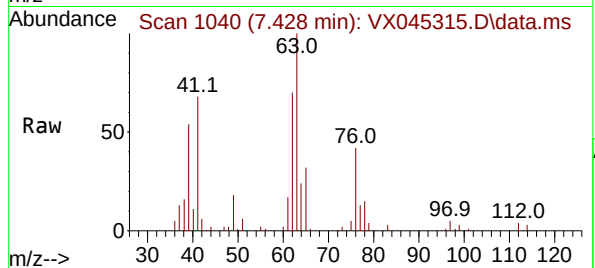
65 31.8 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#46

Dibromomethane

Concen: 20.282 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

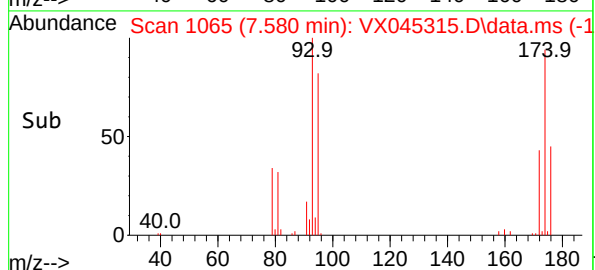
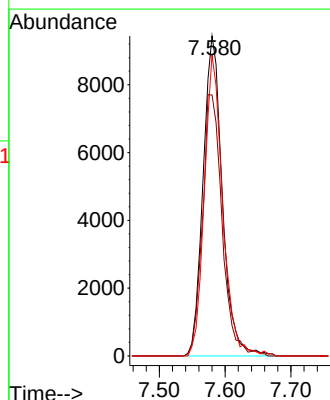
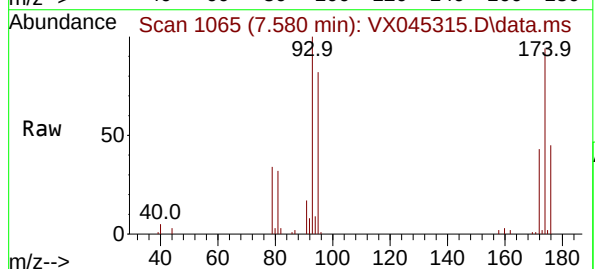
Tgt Ion: 93 Resp: 19209

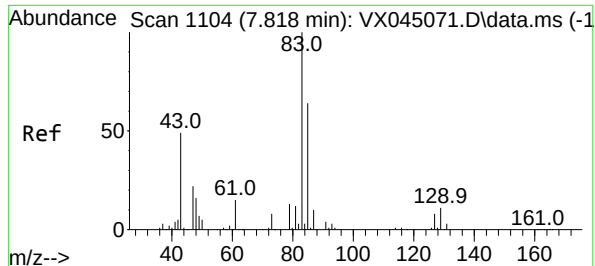
Ion Ratio Lower Upper

93 100

95 83.6 65.8 98.8

174 89.8 72.2 108.2





#47

Bromodichloromethane

Concen: 20.605 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBS01

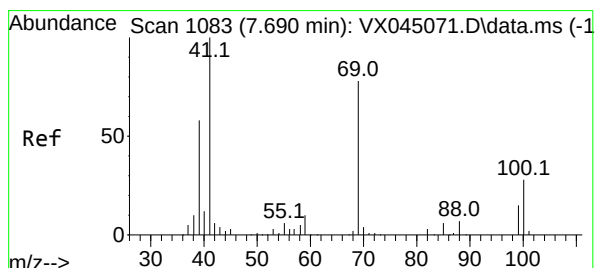
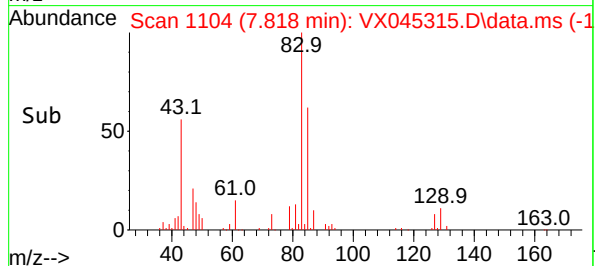
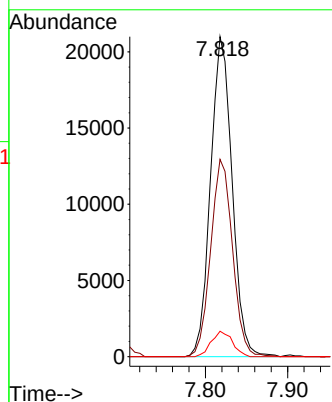
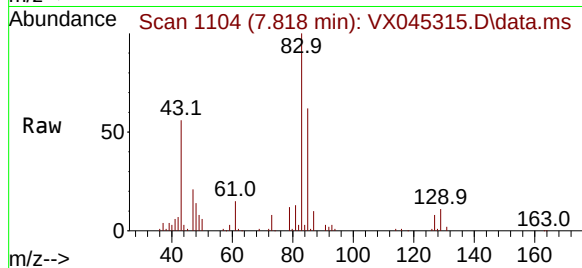
Tgt Ion: 83	Resp: 38279
Ion Ratio	Lower Upper
83 100	
85 61.7	51.1 76.7
127 7.9	6.4 9.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#48

Methyl methacrylate

Concen: 20.645 ug/l

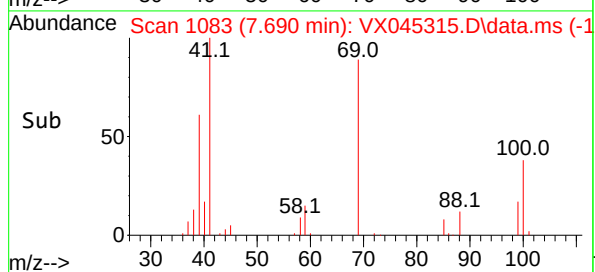
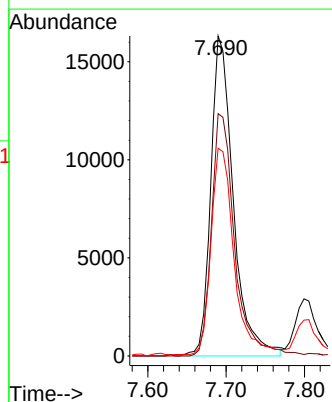
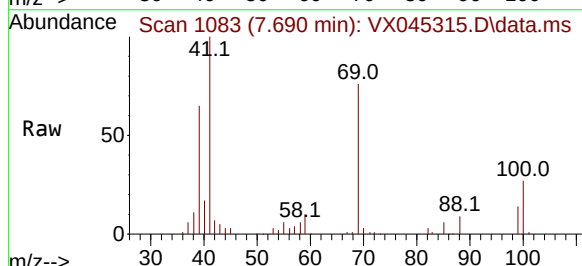
RT: 7.690 min Scan# 1083

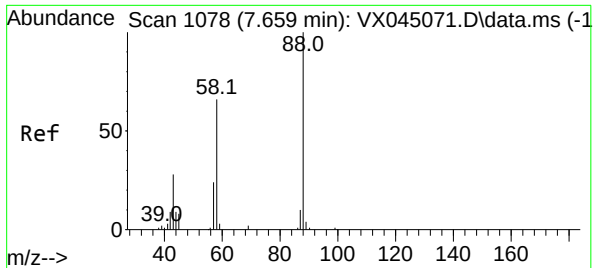
Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Tgt Ion: 41	Resp: 32572
Ion Ratio	Lower Upper
41 100	
69 77.9	63.0 94.6
39 65.9	47.5 71.3





#49

1,4-Dioxane

Concen: 362.201 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. 0.006 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBS01

Tgt Ion: 88 Resp: 12054

Ion Ratio Lower Upper

88 100

43 39.2 28.7 43.1

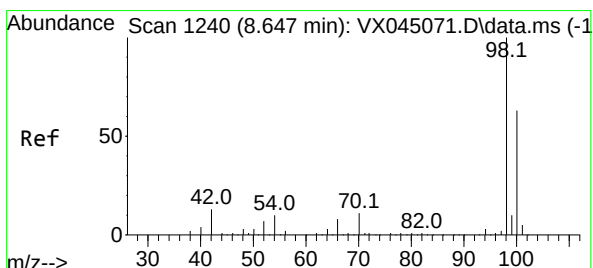
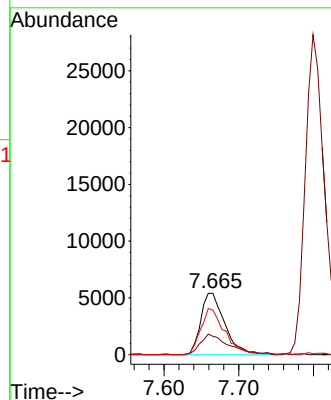
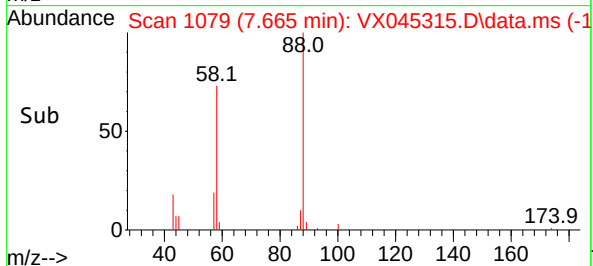
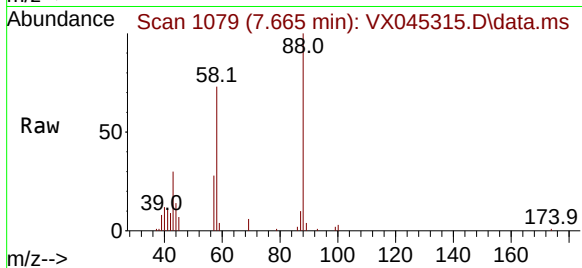
58 75.8 55.8 83.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#50

Toluene-d8

Concen: 51.202 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX045315.D

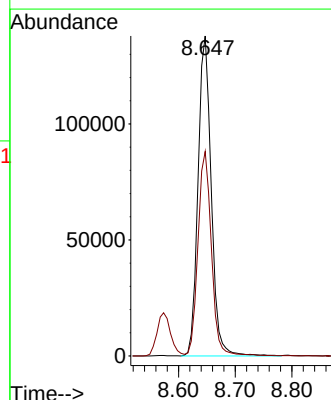
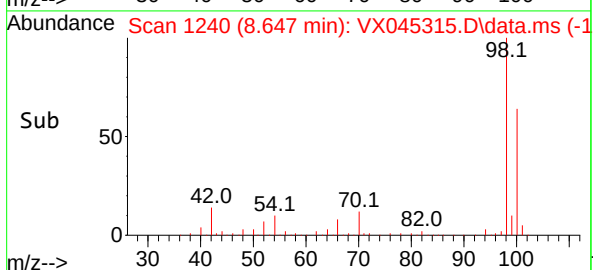
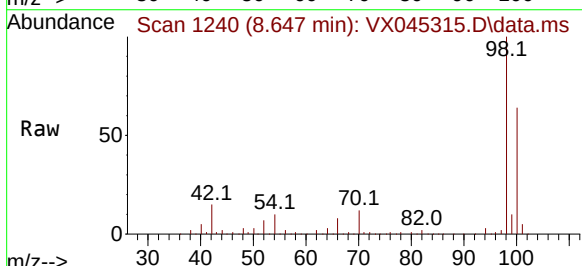
Acq: 18 Mar 2025 11:16

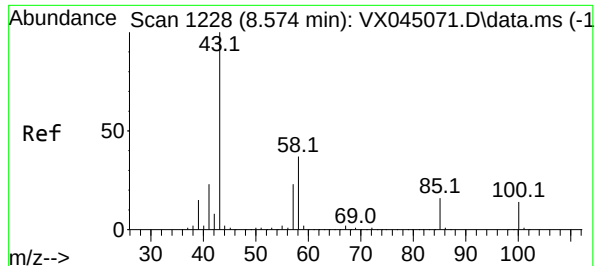
Tgt Ion: 98 Resp: 223393

Ion Ratio Lower Upper

98 100

100 64.8 52.0 78.0





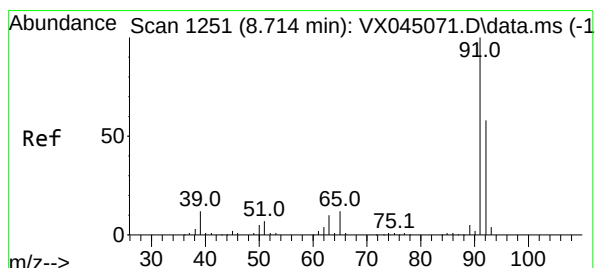
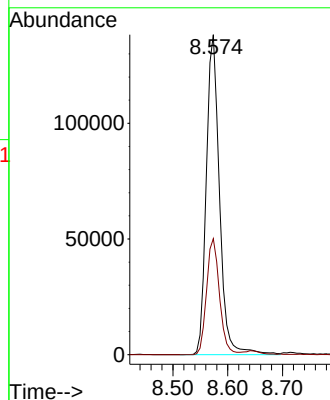
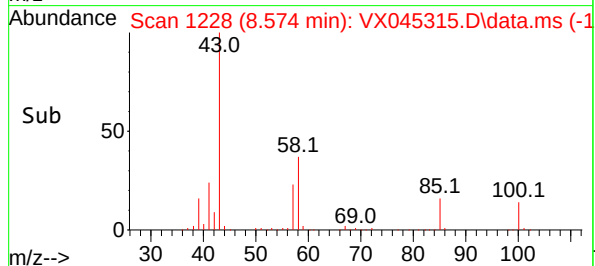
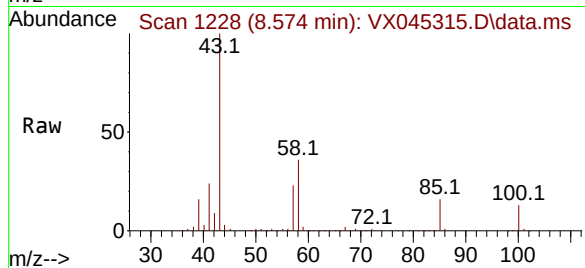
#51
4-Methyl-2-Pentanone
Concen: 109.054 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01

Tgt Ion: 43 Resp: 230272
Ion Ratio Lower Upper
43 100
58 35.6 29.2 43.8

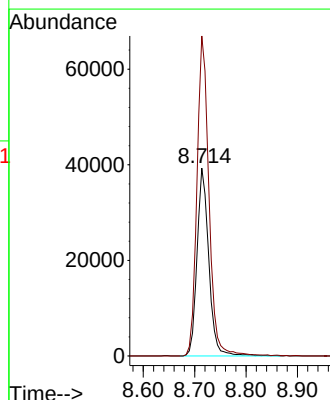
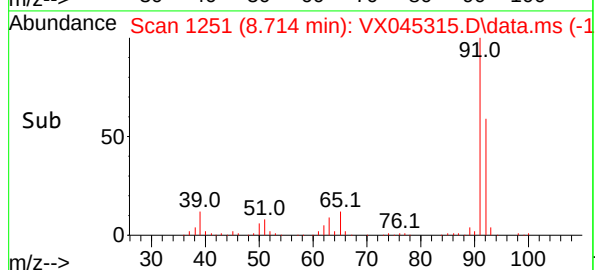
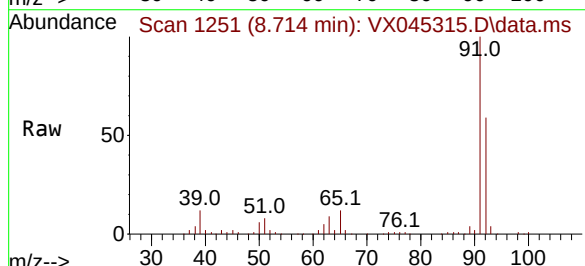
Manual Integrations
APPROVED

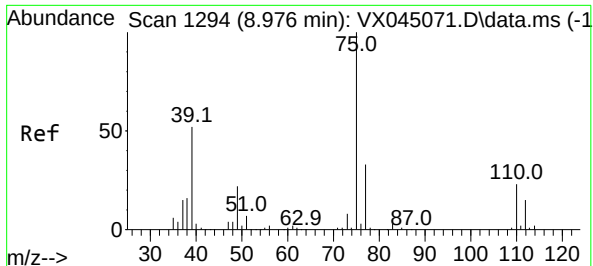
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#52
Toluene
Concen: 20.477 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

Tgt Ion: 92 Resp: 62616
Ion Ratio Lower Upper
92 100
91 173.7 138.9 208.3





#53

t-1,3-Dichloropropene

Concen: 20.424 ug/l

RT: 8.976 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBS01

Tgt Ion: 75 Resp: 31720

Ion Ratio Lower Upper

75 100

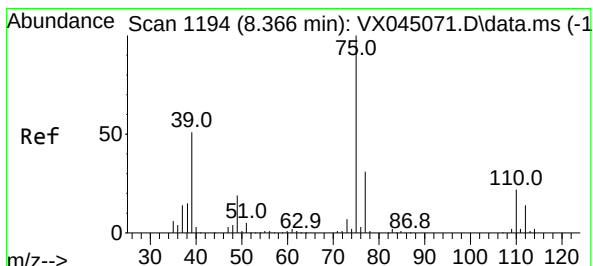
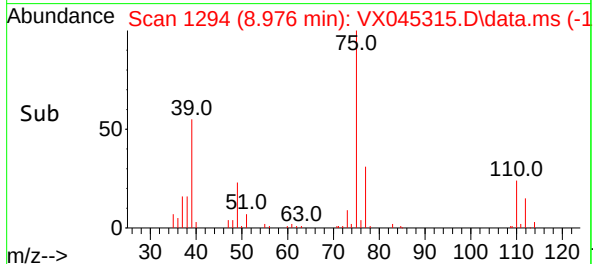
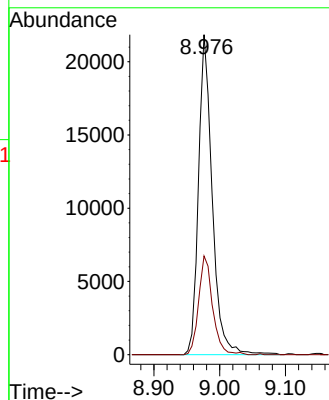
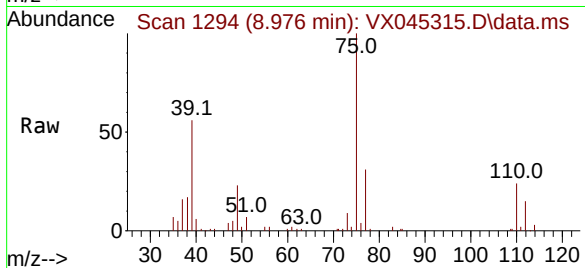
77 30.8 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#54

cis-1,3-Dichloropropene

Concen: 21.174 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. -0.006 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

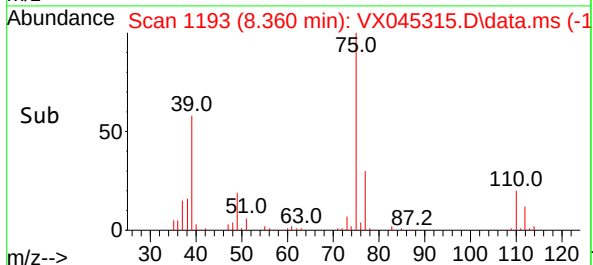
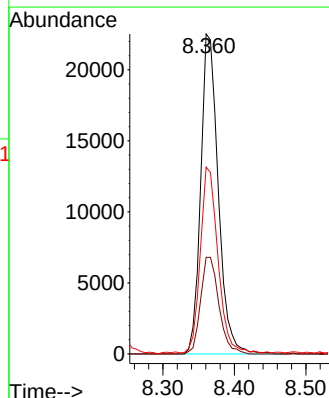
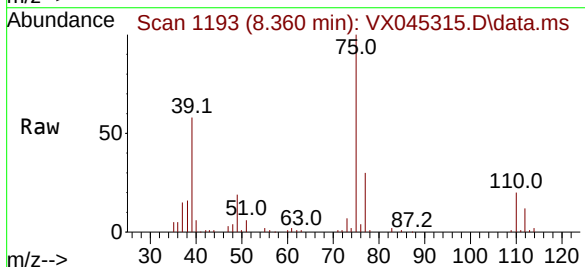
Tgt Ion: 75 Resp: 38346

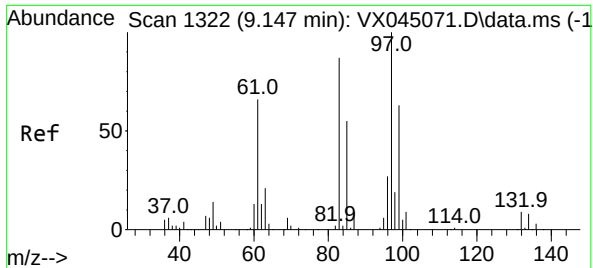
Ion Ratio Lower Upper

75 100

77 30.2 24.7 37.1

39 58.0 40.7 61.1





#55

1,1,2-Trichloroethane

Concen: 20.490 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.006 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBS01

Tgt Ion: 97 Resp: 2579

Ion Ratio Lower Upper

97 100

83 83.7 69.4 104.2

85 56.9 44.1 66.1

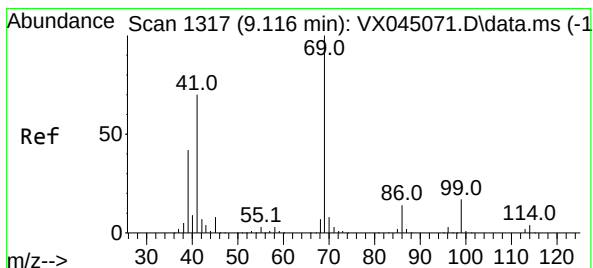
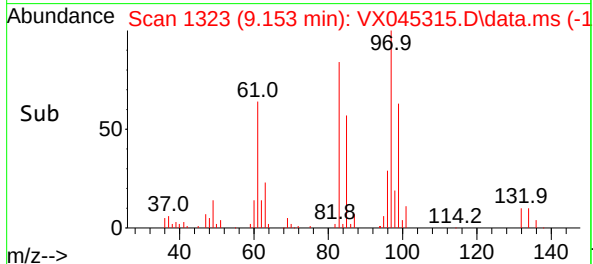
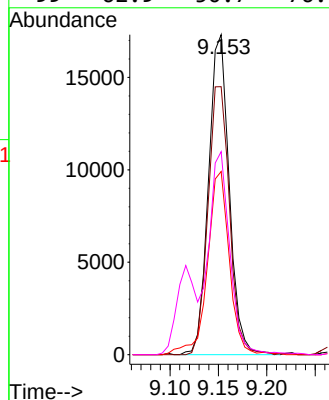
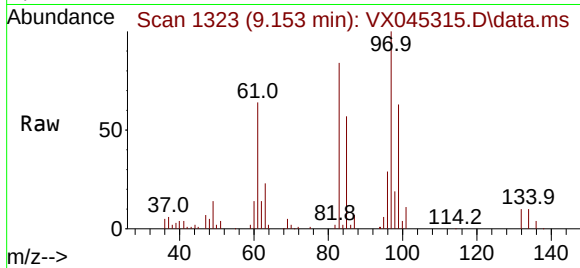
99 62.9 50.7 76.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#56

Ethyl methacrylate

Concen: 20.698 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

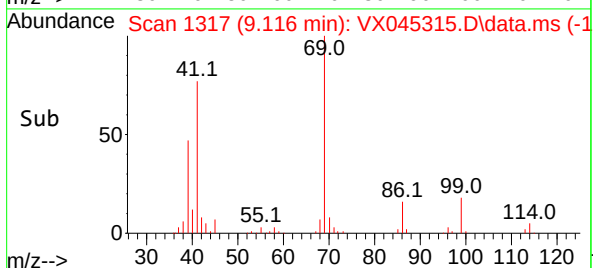
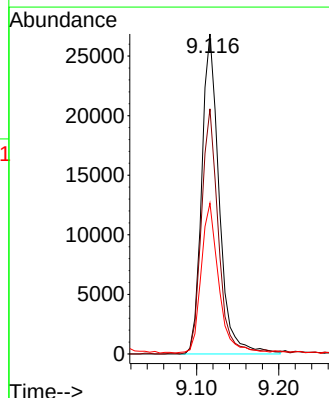
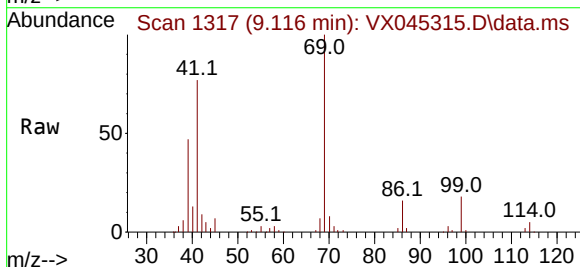
Tgt Ion: 69 Resp: 39605

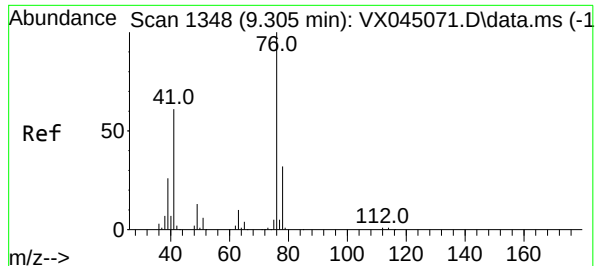
Ion Ratio Lower Upper

69 100

41 75.6 57.0 85.4

39 47.1 34.2 51.4





#57

1,3-Dichloropropane

Concen: 20.567 ug/l

RT: 9.305 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBS01

Tgt Ion: 76 Resp: 44804

Ion Ratio Lower Upper

76 100

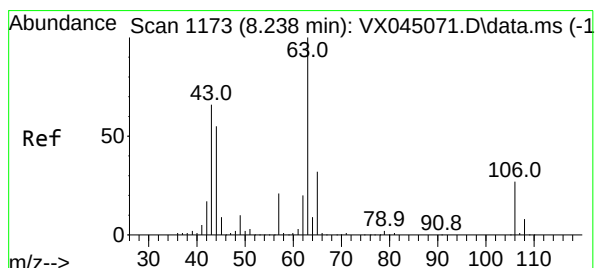
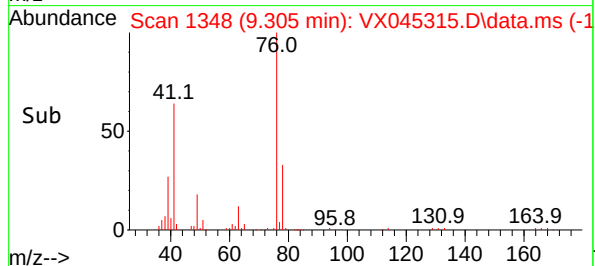
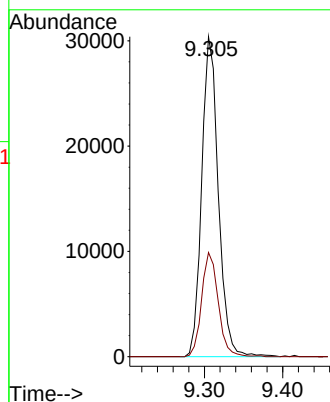
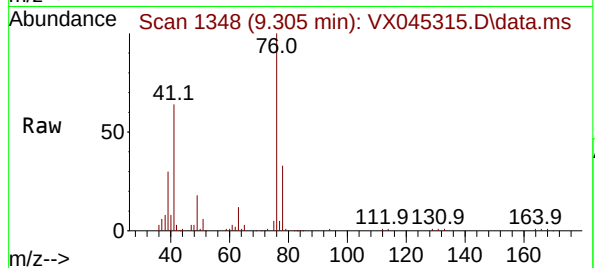
78 32.5 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#58

2-Chloroethyl Vinyl ether

Concen: 95.056 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX045315.D

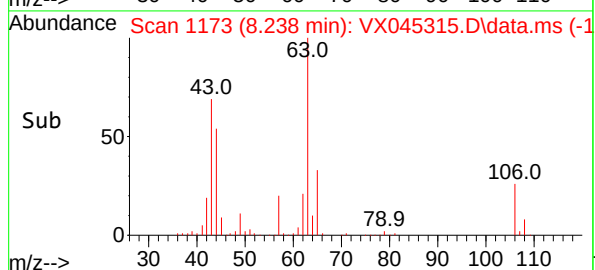
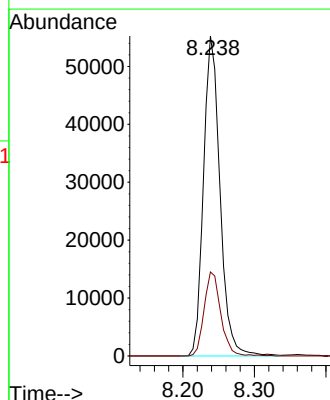
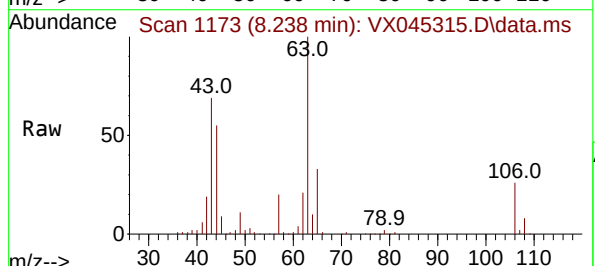
Acq: 18 Mar 2025 11:16

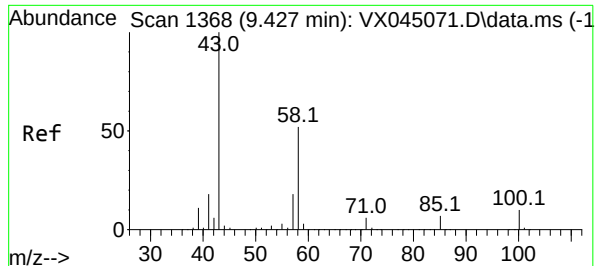
Tgt Ion: 63 Resp: 88727

Ion Ratio Lower Upper

63 100

106 26.5 21.5 32.3





#59

2-Hexanone

Concen: 109.574 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBS01

Tgt Ion: 43 Resp: 16763

Ion Ratio Lower Upper

43 100

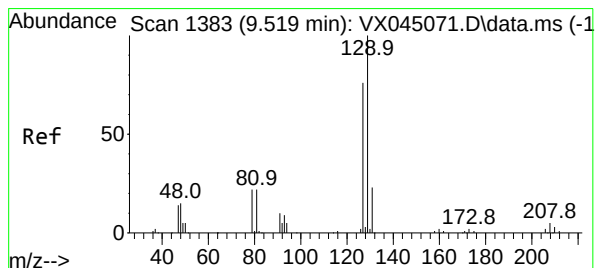
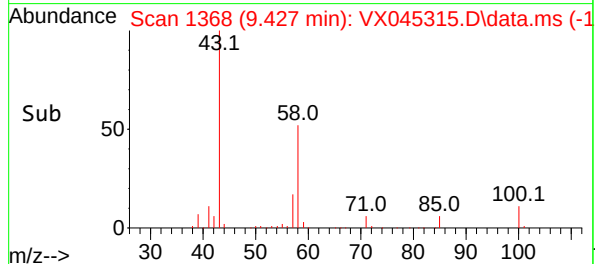
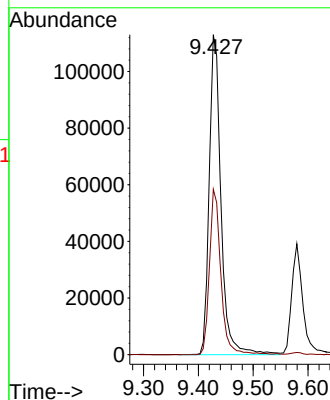
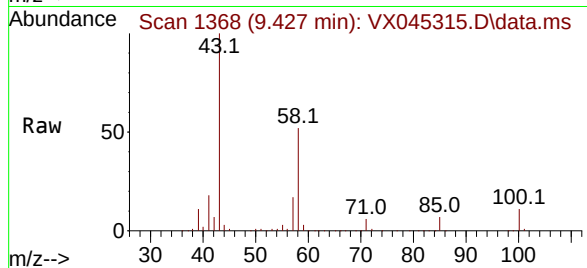
58 50.2 25.9 77.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#60

Dibromochloromethane

Concen: 20.275 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX045315.D

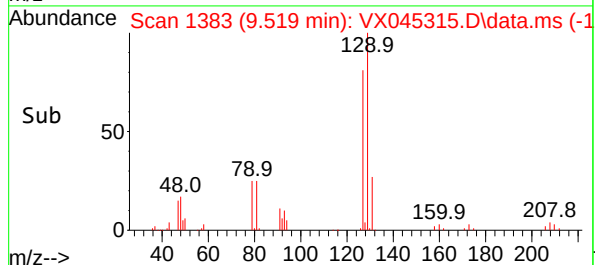
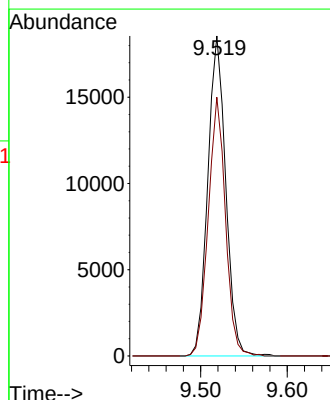
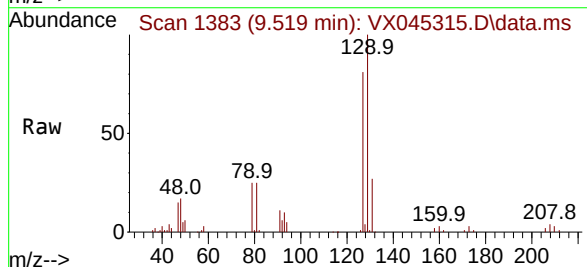
Acq: 18 Mar 2025 11:16

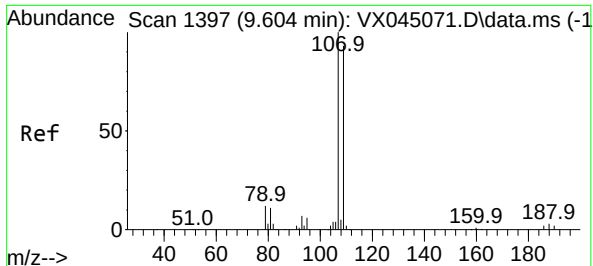
Tgt Ion:129 Resp: 26686

Ion Ratio Lower Upper

129 100

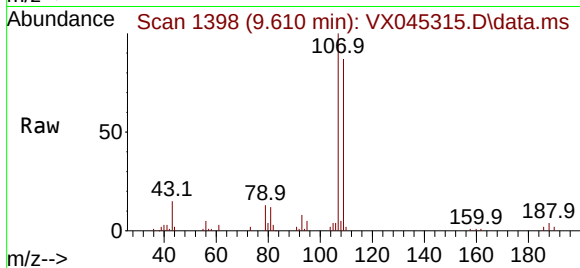
127 77.5 38.5 115.5





#61
1,2-Dibromoethane
Concen: 20.423 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

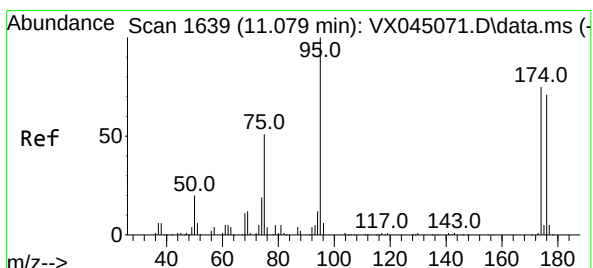
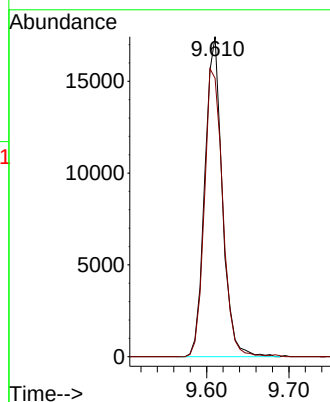
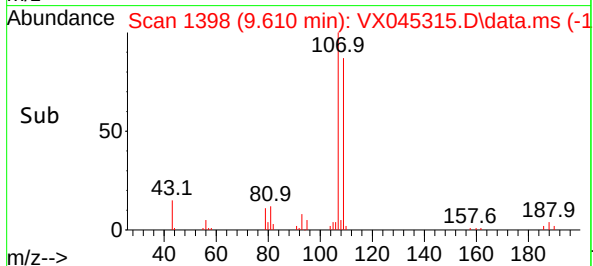
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01



Tgt Ion: 107 Resp: 2566
Ion Ratio Lower Upper
107 100
109 94.4 76.1 114.1

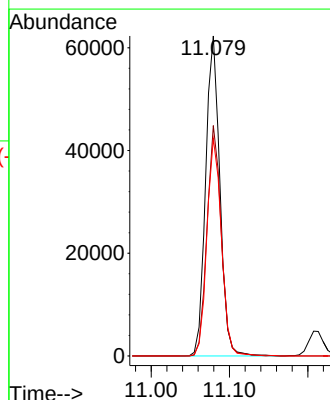
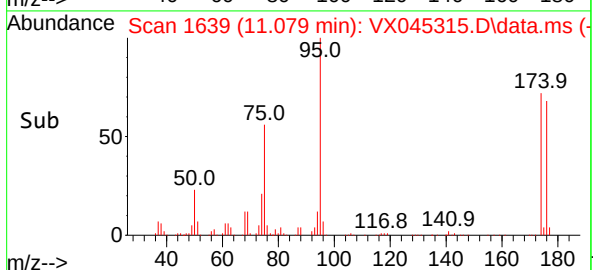
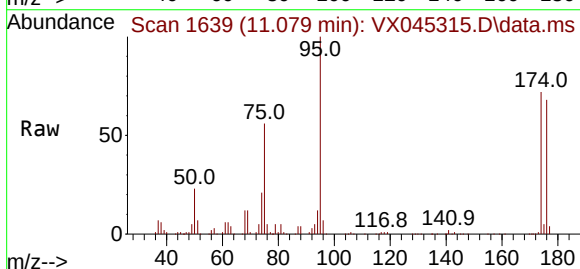
Manual Integrations
APPROVED

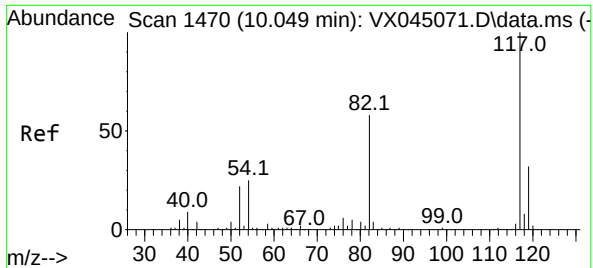
Reviewed By : John Carlone 03/19/2025
Supervised By : Mahesh Dadoda 03/19/2025



#62
4-Bromofluorobenzene
Concen: 54.144 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

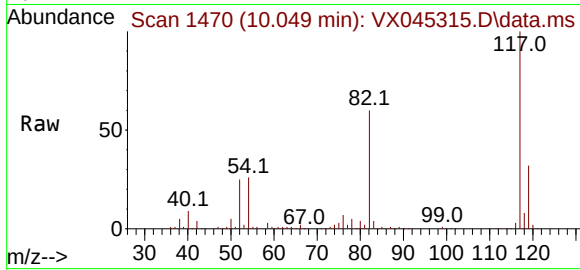
Tgt Ion: 95 Resp: 78279
Ion Ratio Lower Upper
95 100
174 72.0 0.0 148.2
176 69.1 0.0 141.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

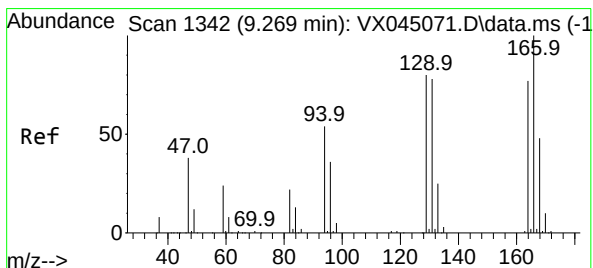
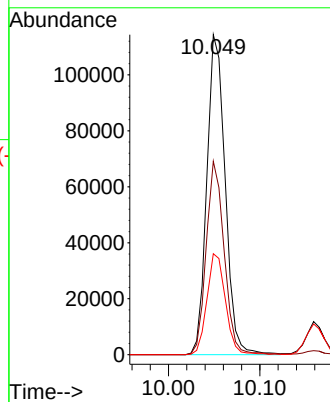
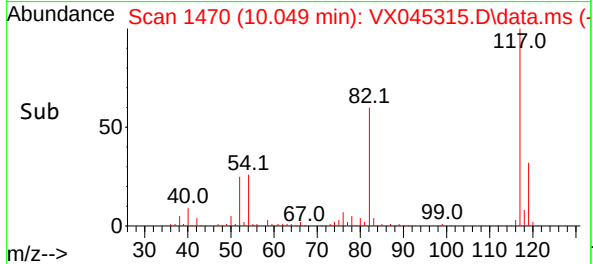
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01



Tgt Ion:117 Resp: 15908
Ion Ratio Lower Upper
117 100
82 60.5 46.3 69.5
119 31.5 25.7 38.5

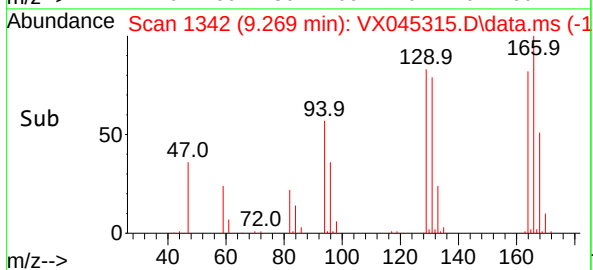
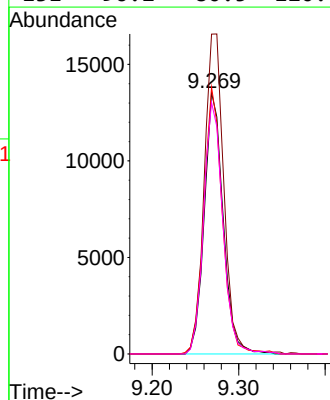
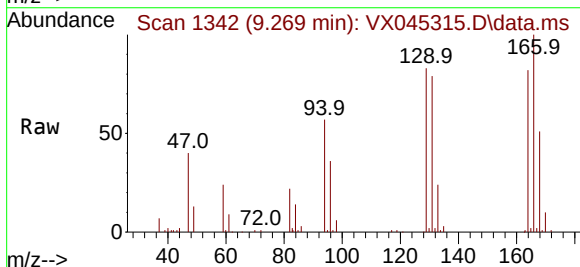
Manual Integrations
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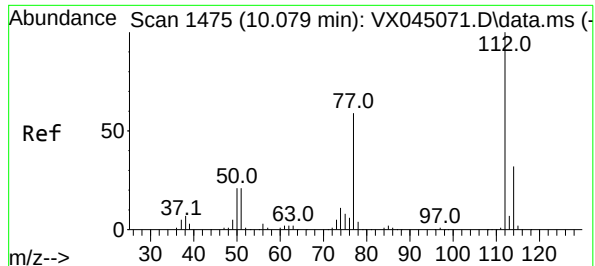
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#64
Tetrachloroethene
Concen: 20.025 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

Tgt Ion:164 Resp: 20403
Ion Ratio Lower Upper
164 100
166 122.4 103.6 155.4
129 102.2 82.7 124.1
131 96.2 80.5 120.7





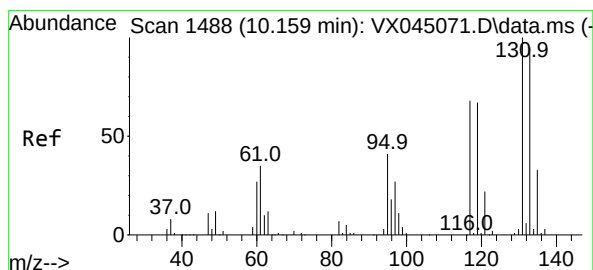
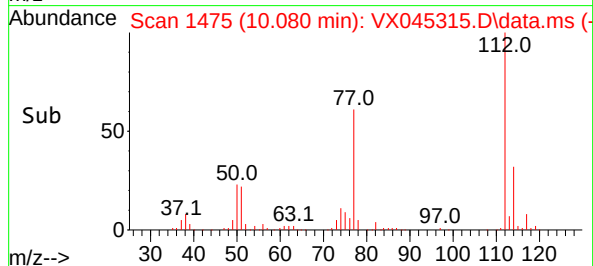
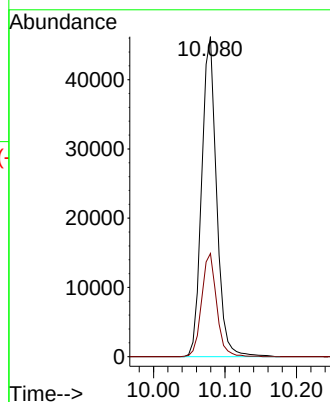
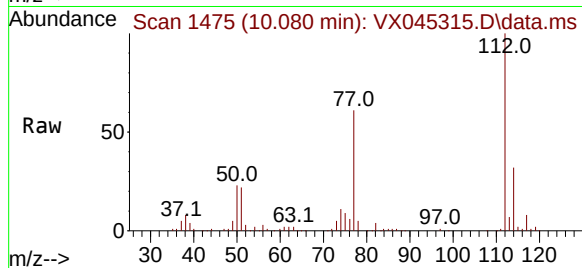
#65
Chlorobenzene
Concen: 19.853 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01

Tgt Ion:112 Resp: 66830
Ion Ratio Lower Upper
112 100
114 32.2 26.0 39.0

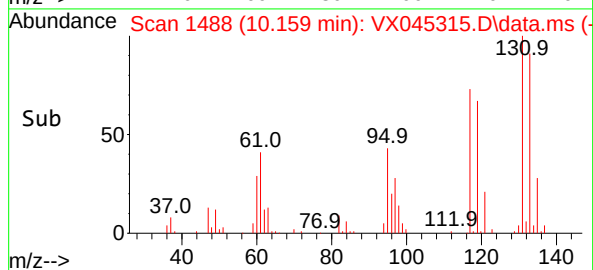
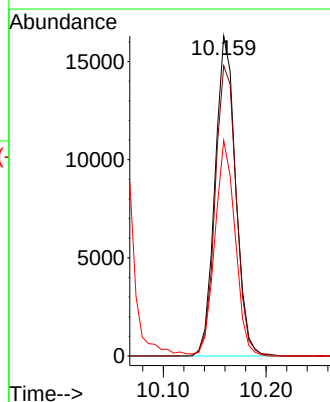
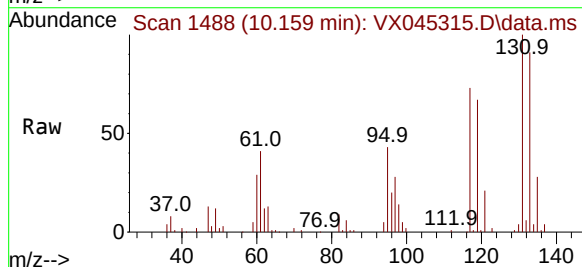
Manual Integrations
APPROVED

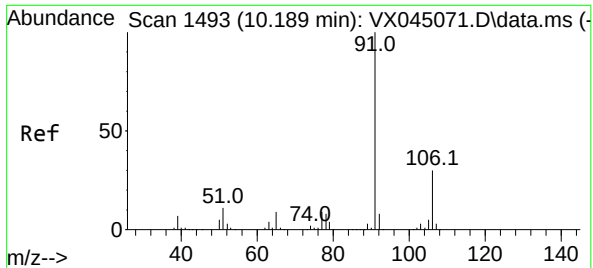
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 20.200 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

Tgt Ion:131 Resp: 22645
Ion Ratio Lower Upper
131 100
133 93.2 48.6 145.9
119 66.1 33.9 101.7





#67

Ethyl Benzene

Concen: 20.290 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBS01

Tgt Ion: 91 Resp: 119000

Ion Ratio Lower Upper

91 100

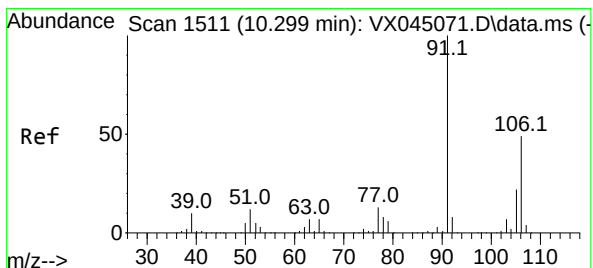
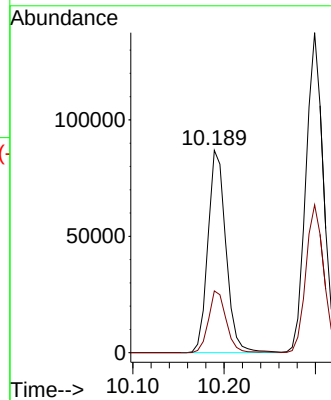
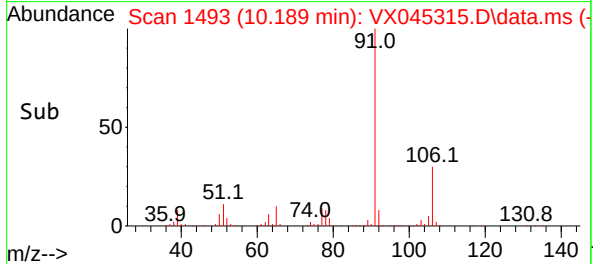
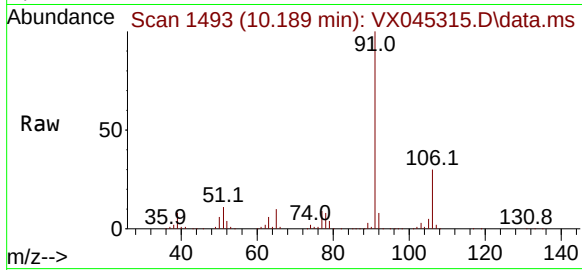
106 30.5 23.9 35.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#68

m/p-Xylenes

Concen: 41.222 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX045315.D

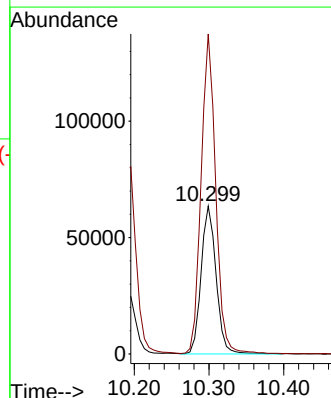
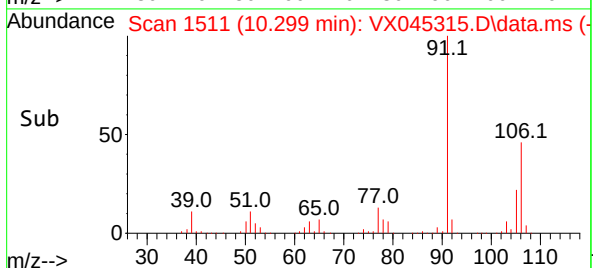
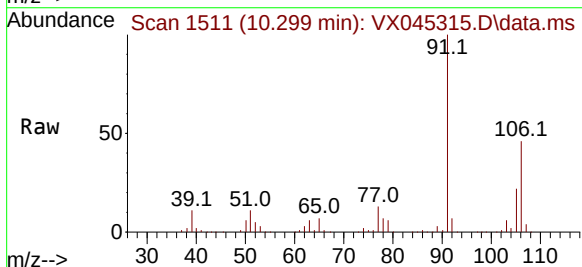
Acq: 18 Mar 2025 11:16

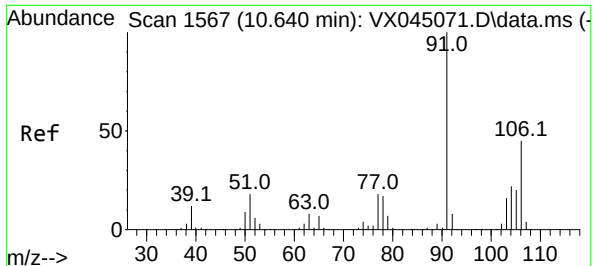
Tgt Ion:106 Resp: 88510

Ion Ratio Lower Upper

106 100

91 210.4 165.4 248.0





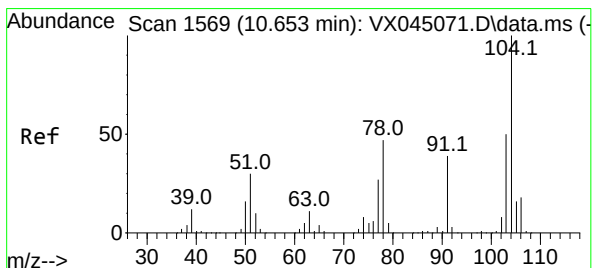
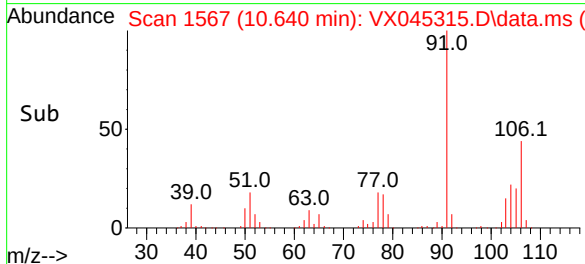
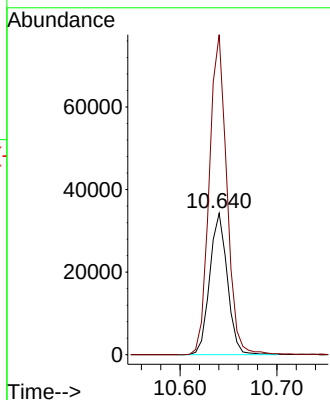
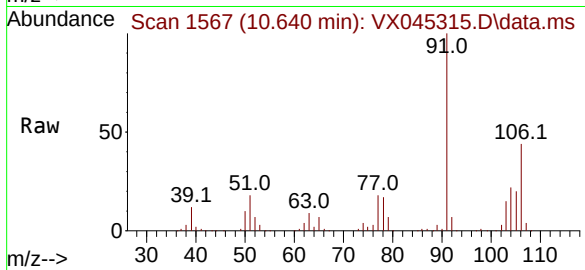
#69
o-Xylene
Concen: 20.101 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01

Tgt Ion:106 Resp: 43529
Ion Ratio Lower Upper
106 100
91 225.8 109.9 329.6

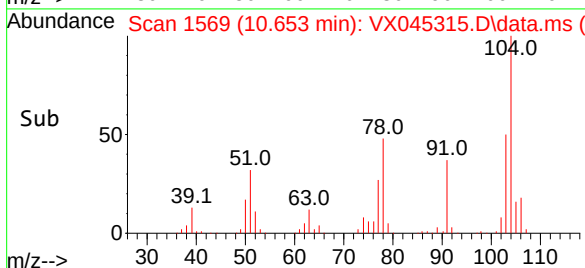
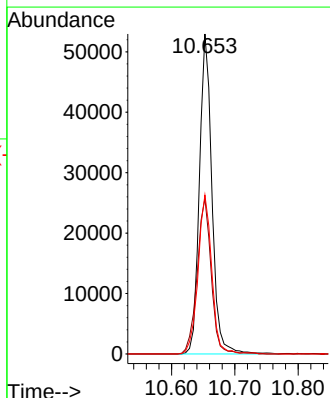
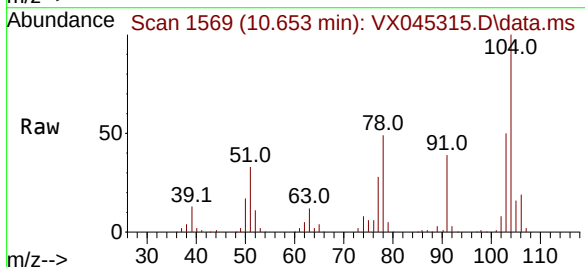
Manual Integrations
APPROVED

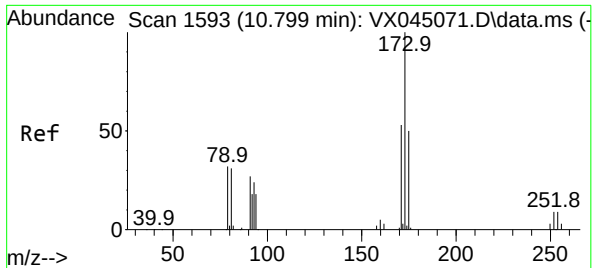
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#70
Styrene
Concen: 20.855 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

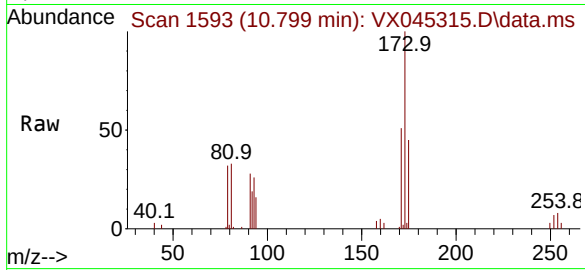
Tgt Ion:104 Resp: 73075
Ion Ratio Lower Upper
104 100
78 54.7 42.2 63.4
103 54.3 43.8 65.8





#71
Bromoform
Concen: 19.960 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

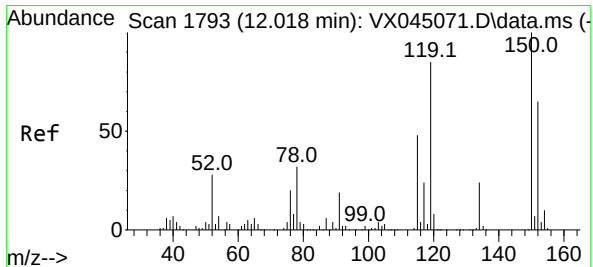
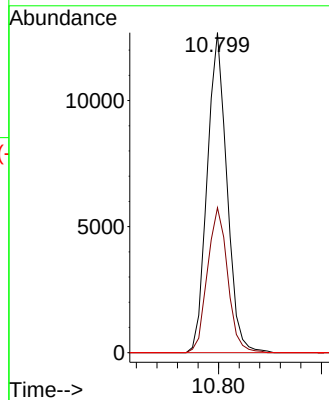
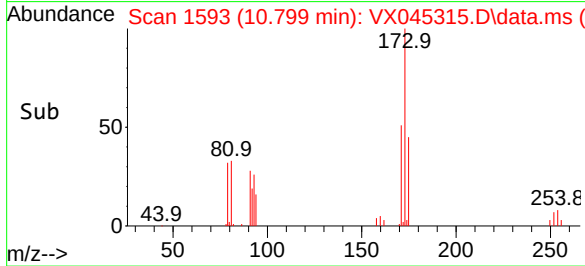
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01



Tgt Ion:173 Resp: 1687
Ion Ratio Lower Upper
173 100
175 46.6 24.6 73.6
254 0.0 0.0 0.0

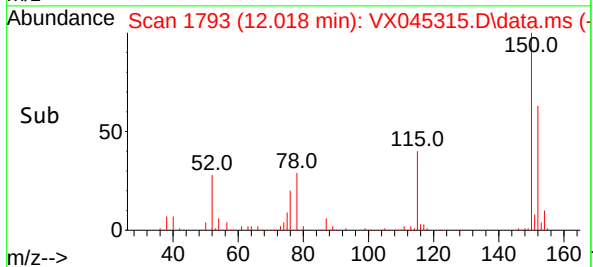
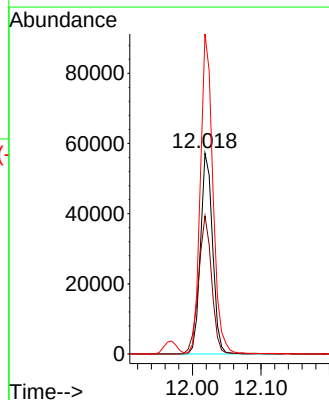
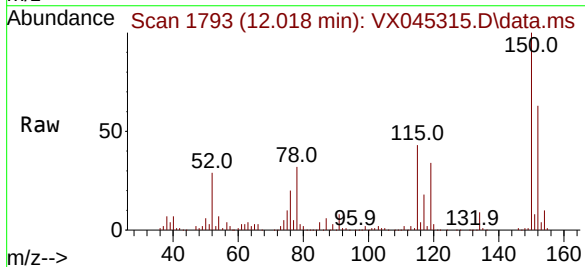
Manual Integrations
APPROVED

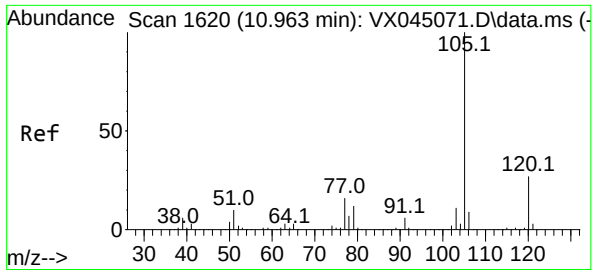
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

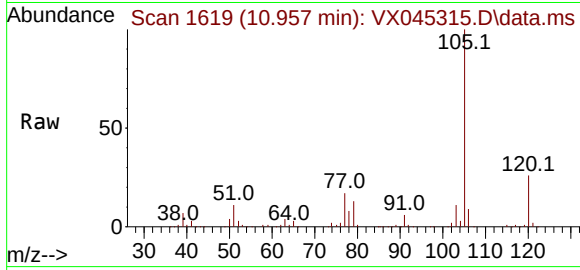
Tgt Ion:152 Resp: 70581
Ion Ratio Lower Upper
152 100
115 74.1 44.2 132.6
150 164.7 0.0 349.0





#73
Isopropylbenzene
Concen: 21.006 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.006 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

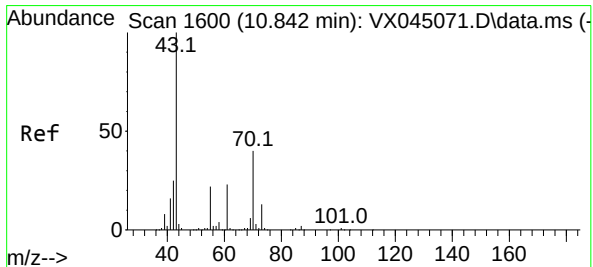
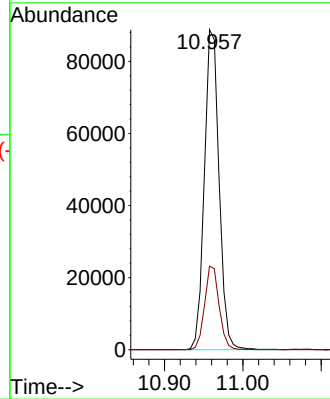
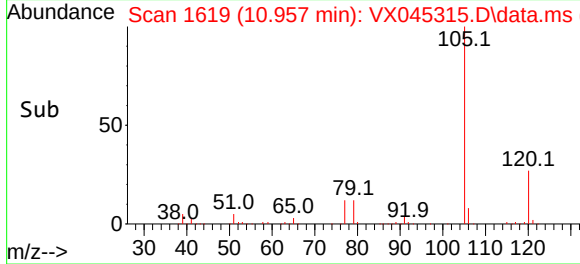
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01



Tgt Ion:105 Resp: 11572
Ion Ratio Lower Upper
105 100
120 25.8 13.2 39.5

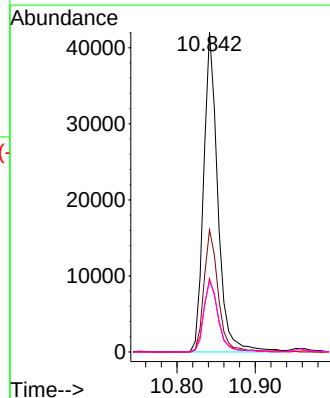
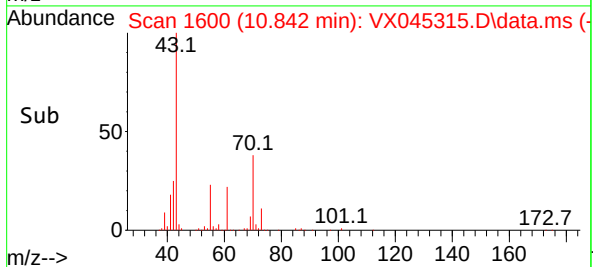
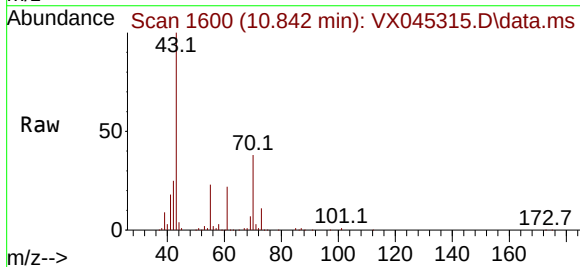
Manual Integrations
APPROVED

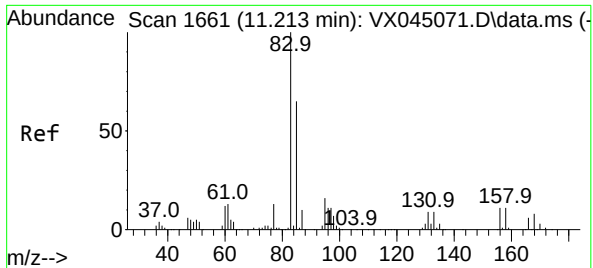
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#74
N-ethyl acetate
Concen: 20.478 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

Tgt Ion: 43 Resp: 52935
Ion Ratio Lower Upper
43 100
70 38.3 31.8 47.6
55 23.6 18.3 27.5
61 22.7 18.3 27.5





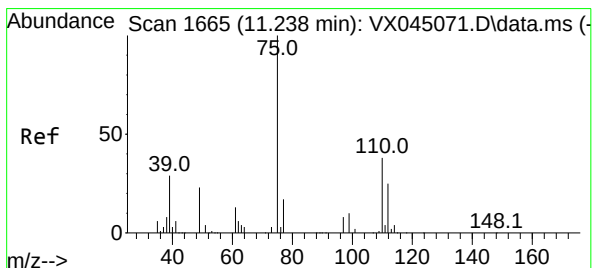
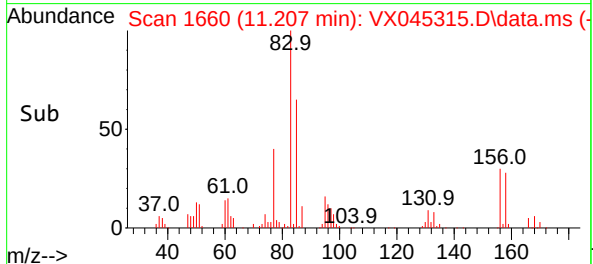
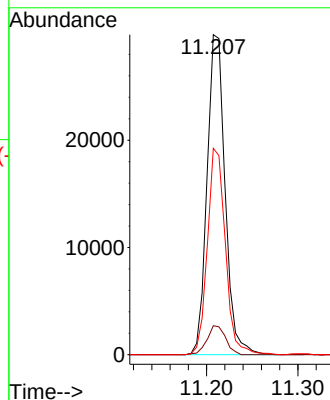
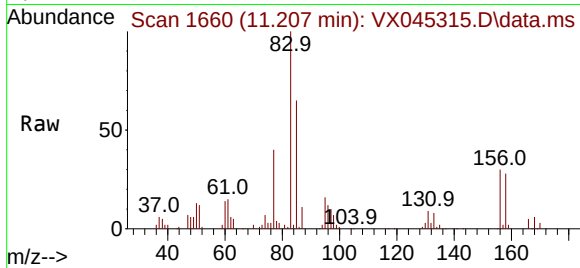
#75
1,1,2,2-Tetrachloroethane
Concen: 20.233 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. -0.006 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01

Tgt Ion: 83 Resp: 40904
Ion Ratio Lower Upper
83 100
131 9.3 4.5 13.4
85 64.2 31.7 95.1

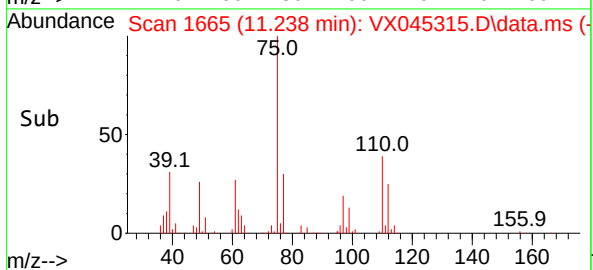
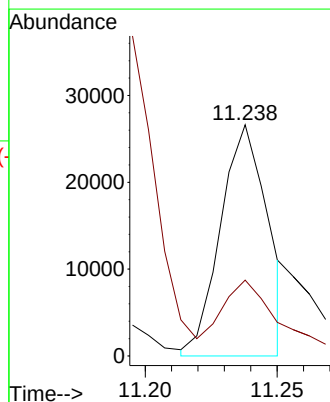
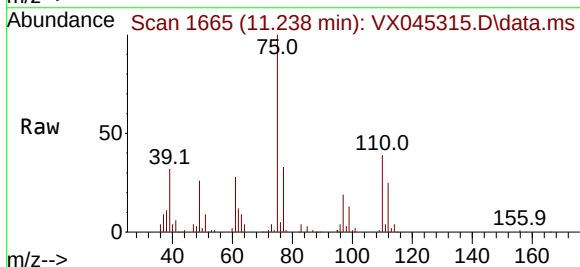
Manual Integrations
APPROVED

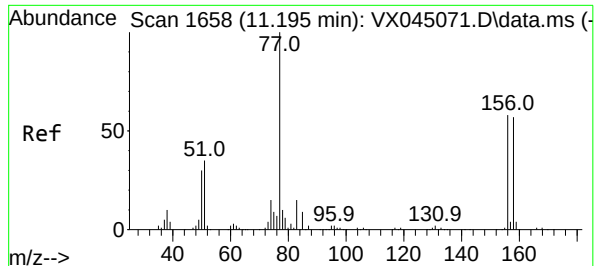
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#76
1,2,3-Trichloropropane
Concen: 20.126 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

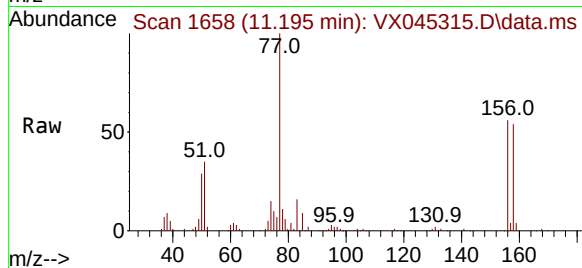
Tgt Ion: 75 Resp: 33063
Ion Ratio Lower Upper
75 100
77 40.9 20.7 62.1





#77
Bromobenzene
Concen: 20.305 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

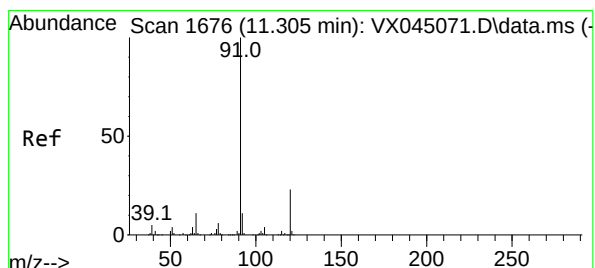
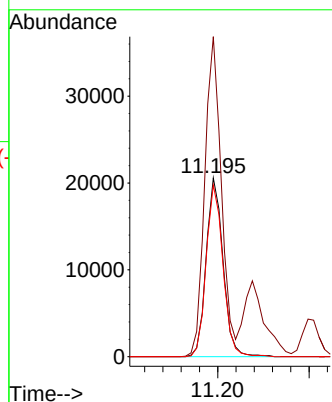
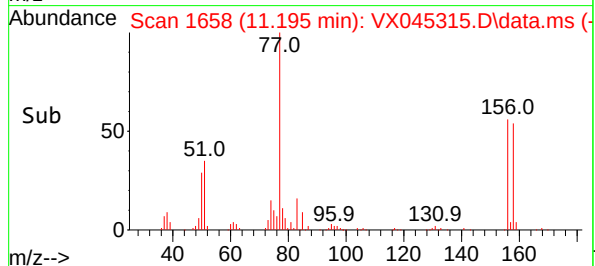
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01



Tgt Ion:156 Resp: 2639
Ion Ratio Lower Upper
156 100
77 175.9 85.8 257.4
158 96.0 48.4 145.2

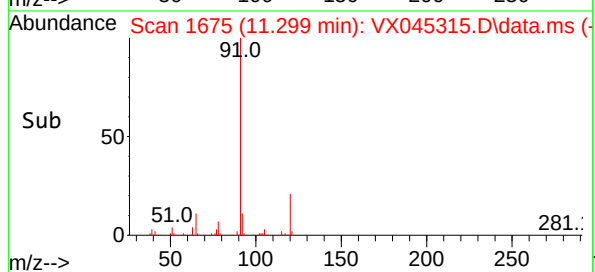
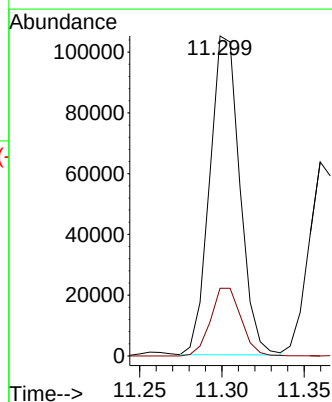
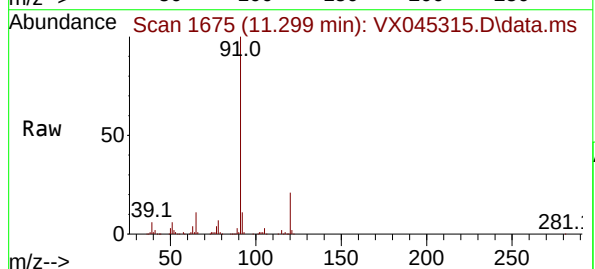
Manual Integrations
APPROVED

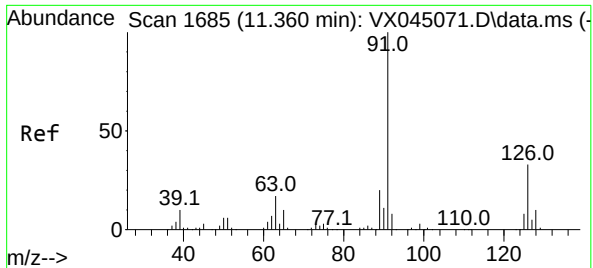
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#78
n-propylbenzene
Concen: 21.500 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

Tgt Ion: 91 Resp: 133799
Ion Ratio Lower Upper
91 100
120 21.6 11.2 33.6





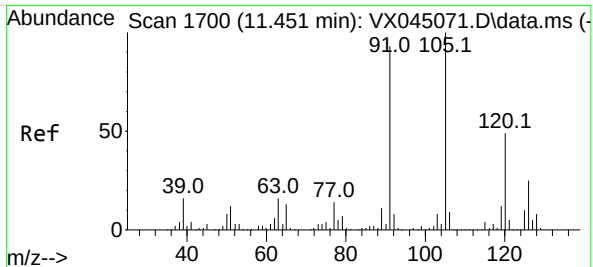
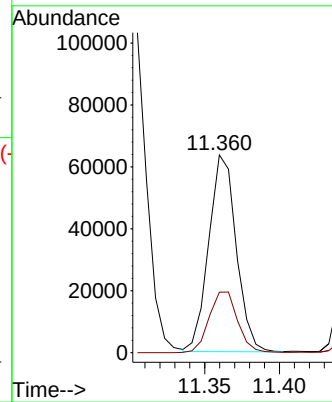
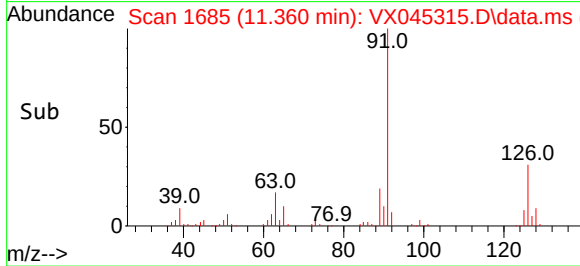
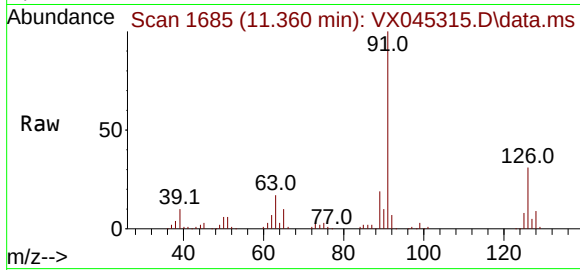
#79
2-Chlorotoluene
Concen: 20.531 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01

Tgt Ion: 91 Resp: 8137
Ion Ratio Lower Upper
91 100
126 32.1 16.4 49.4

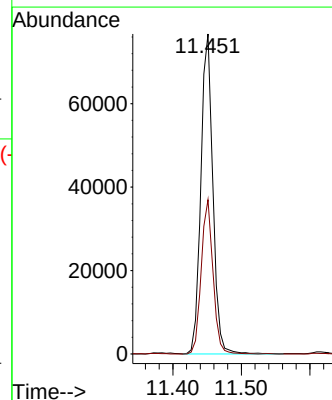
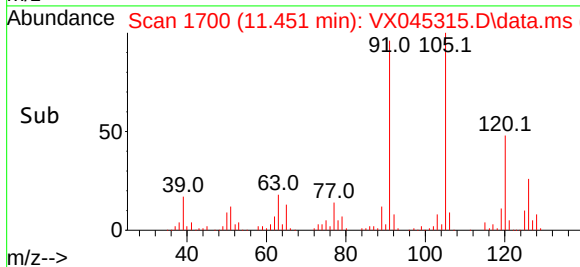
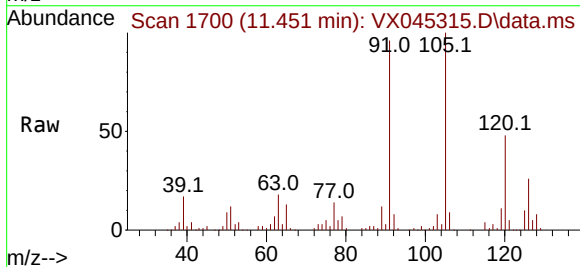
Manual Integrations
APPROVED

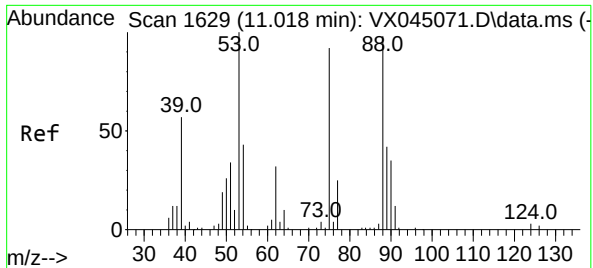
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#80
1,3,5-Trimethylbenzene
Concen: 21.036 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

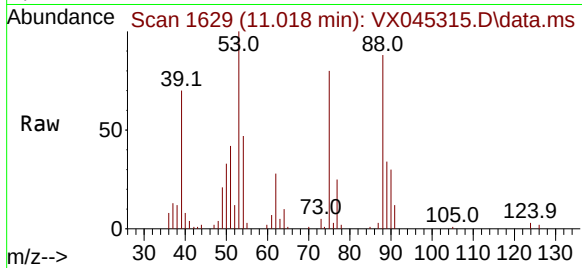
Tgt Ion:105 Resp: 93706
Ion Ratio Lower Upper
105 100
120 47.3 24.1 72.2





#81
trans-1,4-Dichloro-2-butene
Concen: 19.380 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

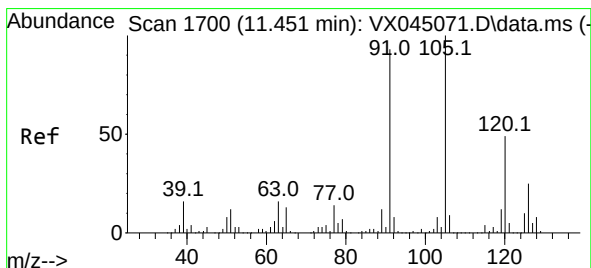
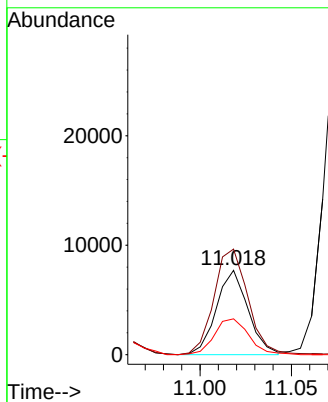
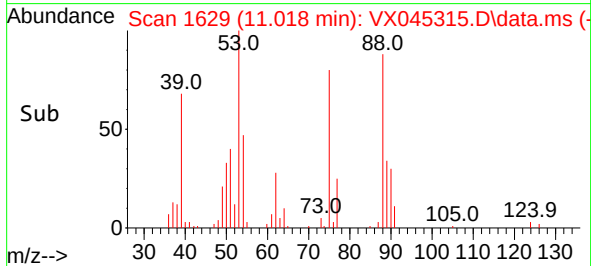
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01



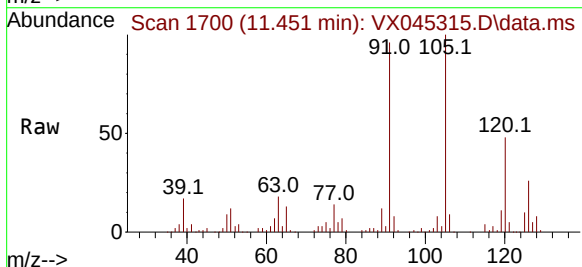
Tgt Ion: 75 Resp: 930
Ion Ratio Lower Upper
75 100
53 135.4 88.5 132.7
89 46.1 36.2 54.4

Manual Integrations
APPROVED

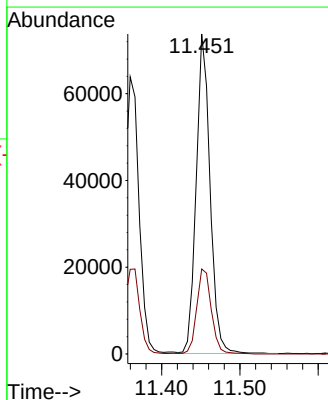
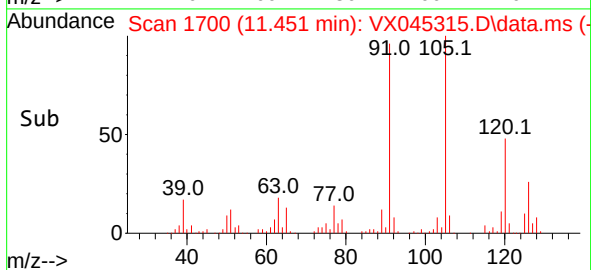
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

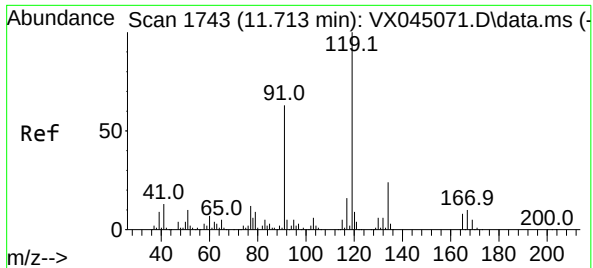


#82
4-Chlorotoluene
Concen: 21.000 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16



Tgt Ion: 91 Resp: 90708
Ion Ratio Lower Upper
91 100
126 28.2 14.1 42.4





#83

tert-Butylbenzene

Concen: 20.597 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBS01

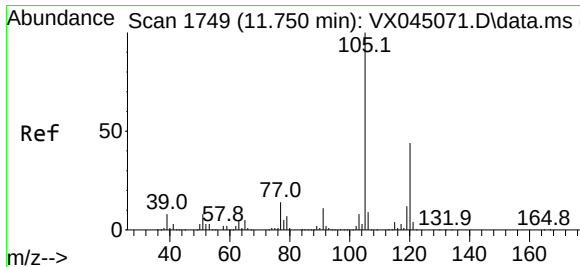
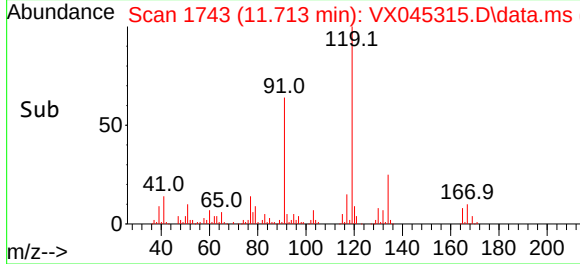
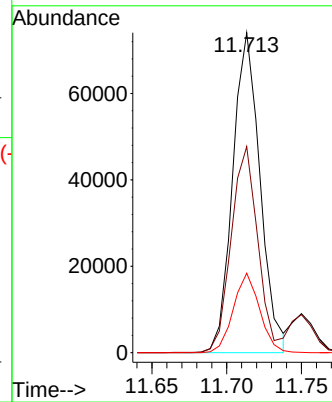
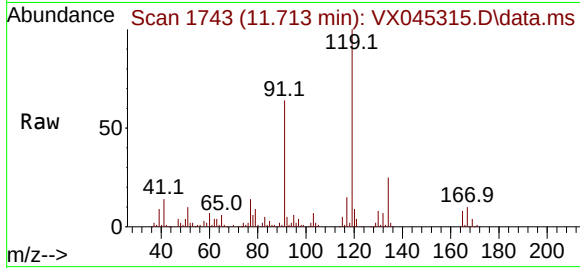
Tgt Ion:	119	Resp:	94270
Ion Ratio	Lower	Upper	
119	100		
91	63.5	30.7	92.1
134	23.9	11.7	35.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#84

1,2,4-Trimethylbenzene

Concen: 21.253 ug/l

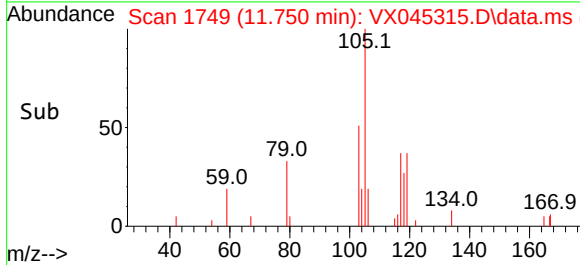
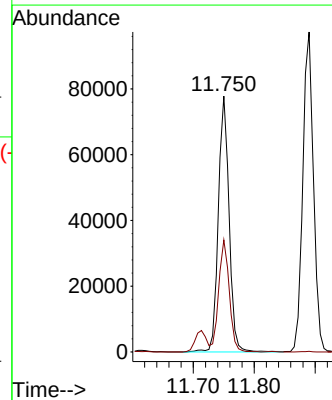
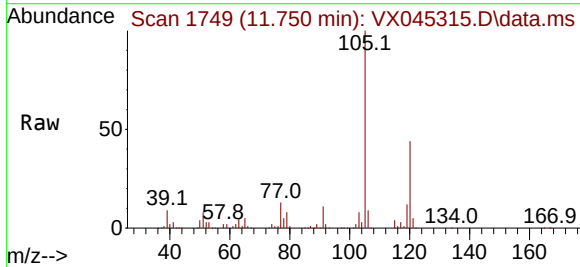
RT: 11.750 min Scan# 1749

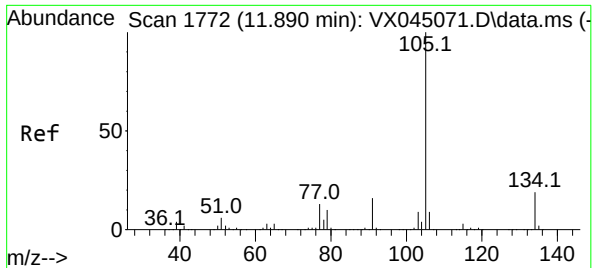
Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

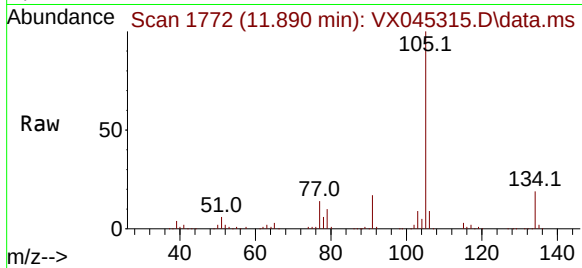
Tgt Ion:	105	Resp:	95258
Ion Ratio	Lower	Upper	
105	100		
120	43.3	22.1	66.1





#85
 sec-Butylbenzene
 Concen: 21.540 ug/l
 RT: 11.890 min Scan# 1772
 Delta R.T. 0.000 min
 Lab File: VX045315.D
 Acq: 18 Mar 2025 11:16

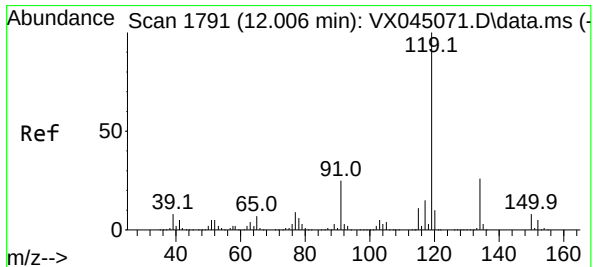
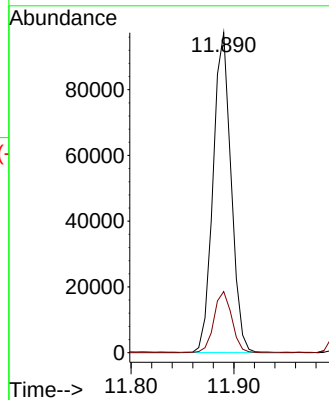
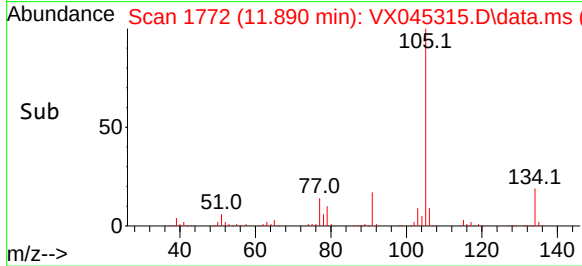
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0318WBS01



Tgt Ion:105 Resp: 11809
 Ion Ratio Lower Upper
 105 100
 134 19.0 9.8 29.4

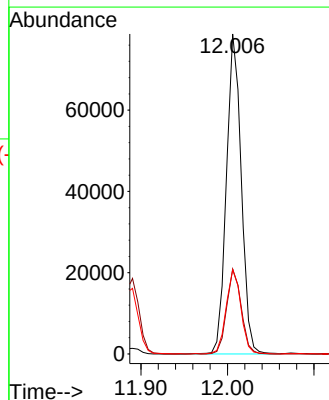
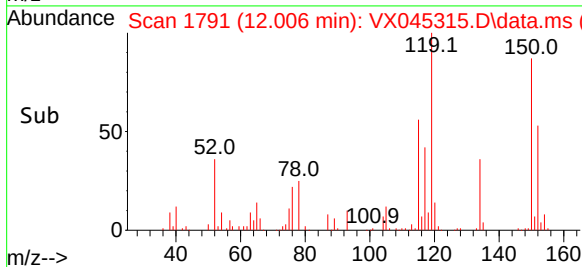
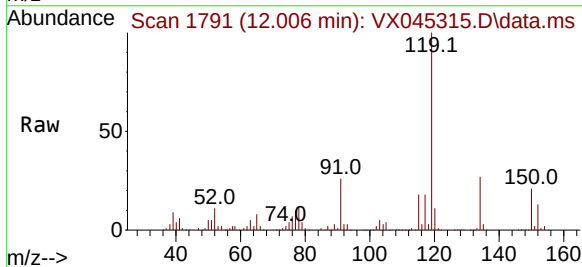
Manual Integrations
 APPROVED

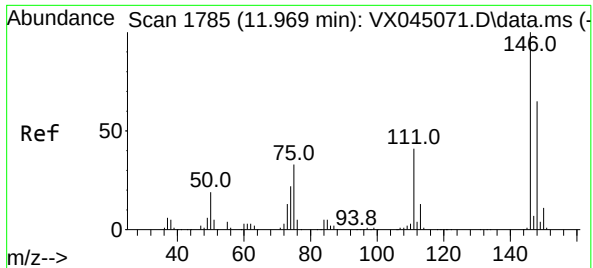
Reviewed By :John Carlone 03/19/2025
 Supervised By :Mahesh Dadoda 03/19/2025



#86
 p-Isopropyltoluene
 Concen: 21.165 ug/l
 RT: 12.006 min Scan# 1791
 Delta R.T. 0.000 min
 Lab File: VX045315.D
 Acq: 18 Mar 2025 11:16

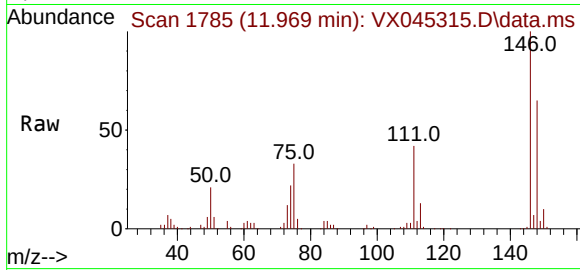
Tgt Ion:119 Resp: 93774
 Ion Ratio Lower Upper
 119 100
 134 26.1 12.9 38.6
 91 26.3 12.7 38.0





#87
1,3-Dichlorobenzene
Concen: 20.238 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

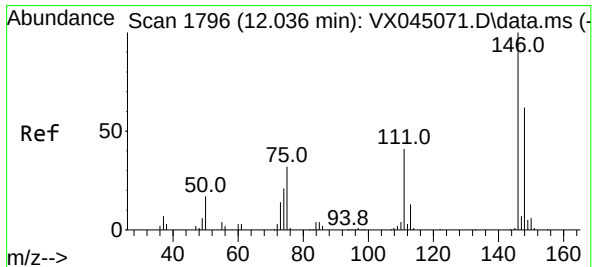
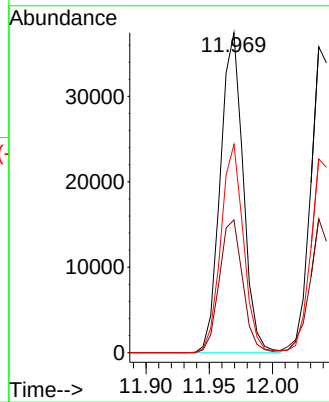
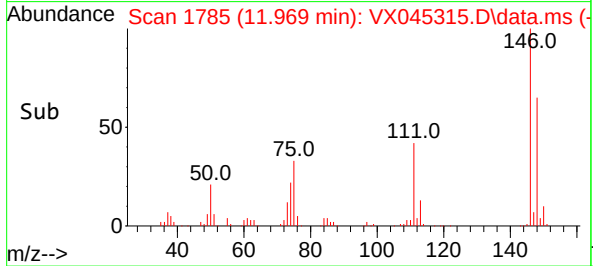
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01



Tgt Ion:146 Resp: 46929
Ion Ratio Lower Upper
146 100
111 42.4 21.1 63.4
148 64.6 31.9 95.7

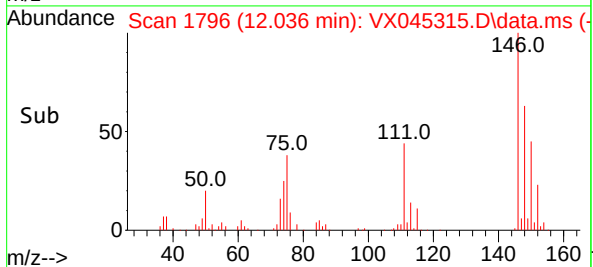
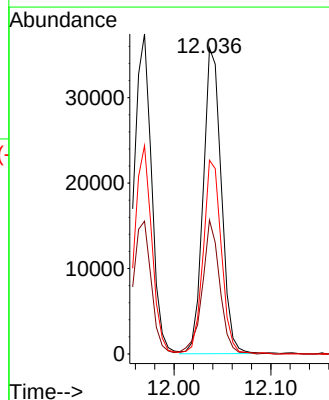
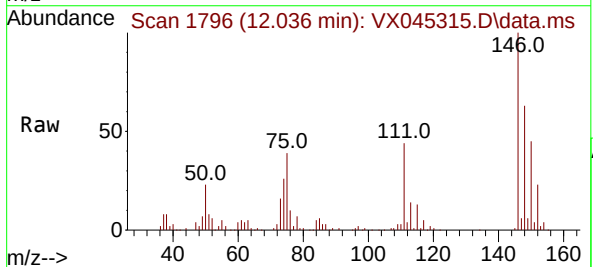
Manual Integrations
APPROVED

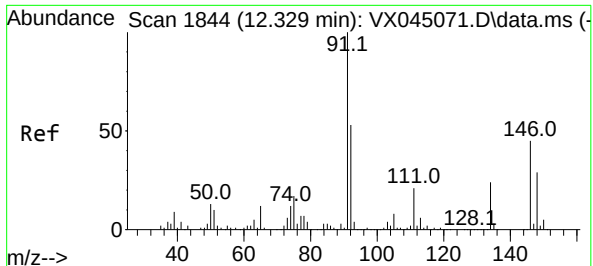
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#88
1,4-Dichlorobenzene
Concen: 19.915 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

Tgt Ion:146 Resp: 46719
Ion Ratio Lower Upper
146 100
111 42.3 20.2 60.5
148 63.6 31.9 95.9





#89

n-Butylbenzene

Concen: 21.434 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBS01

Tgt Ion: 91 Resp: 8179

Ion Ratio Lower Upper

91 100

92 54.0 26.7 80.0

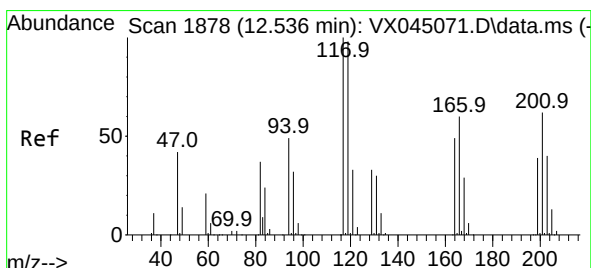
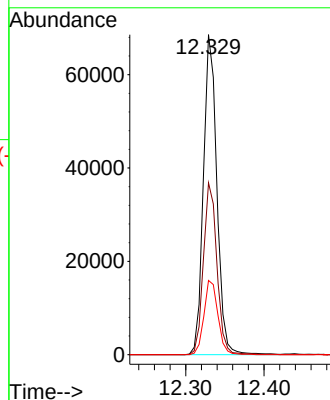
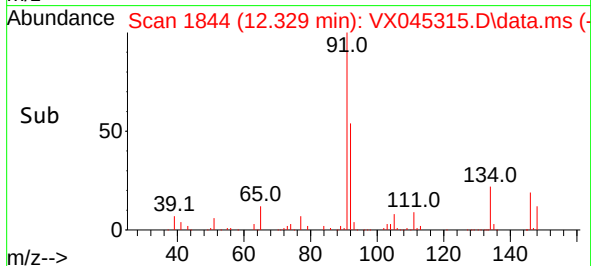
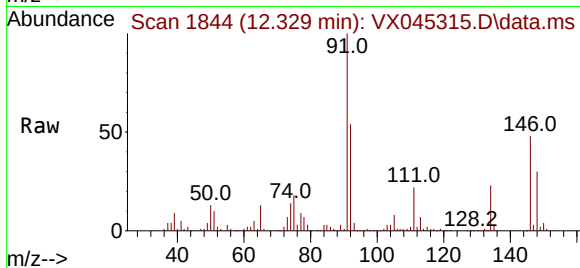
134 24.1 12.2 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#90

Hexachloroethane

Concen: 19.417 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX045315.D

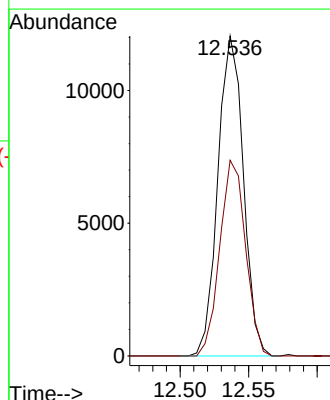
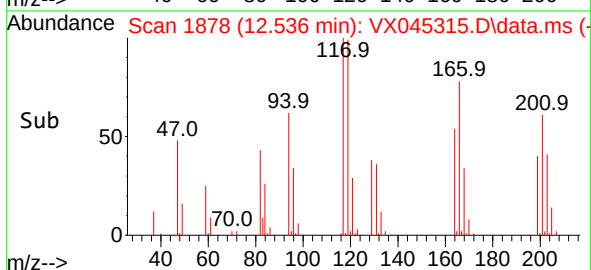
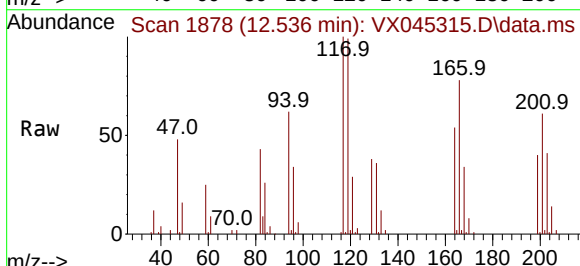
Acq: 18 Mar 2025 11:16

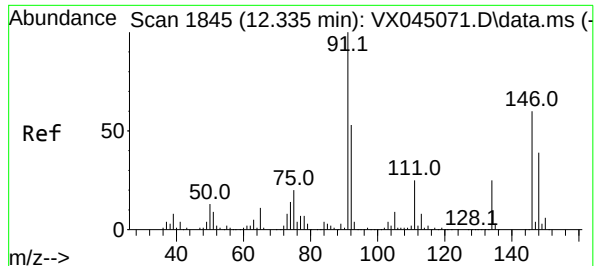
Tgt Ion:117 Resp: 15561

Ion Ratio Lower Upper

117 100

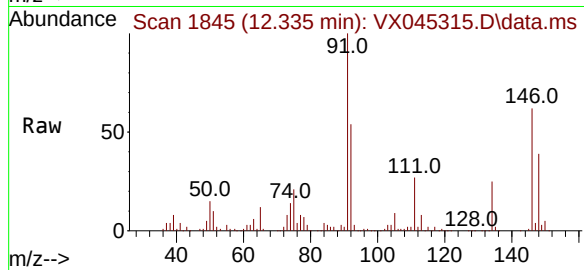
201 62.1 31.9 95.9





#91
1,2-Dichlorobenzene
Concen: 20.453 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

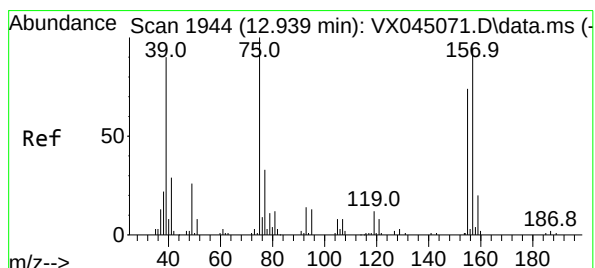
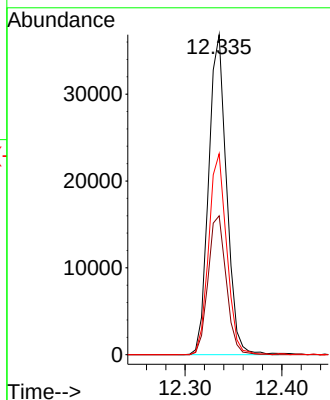
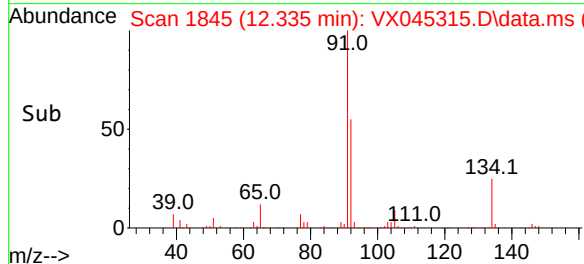
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01



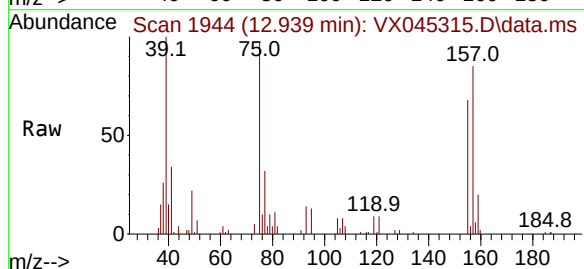
Tgt Ion:146 Resp: 47579
Ion Ratio Lower Upper
146 100
111 43.9 21.6 65.0
148 62.8 31.9 95.9

Manual Integrations
APPROVED

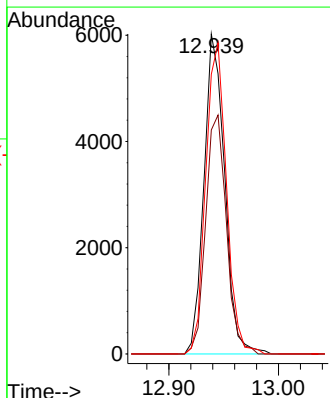
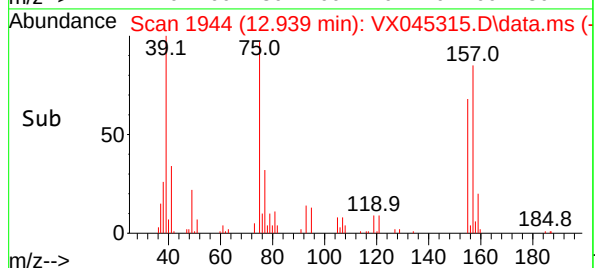
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

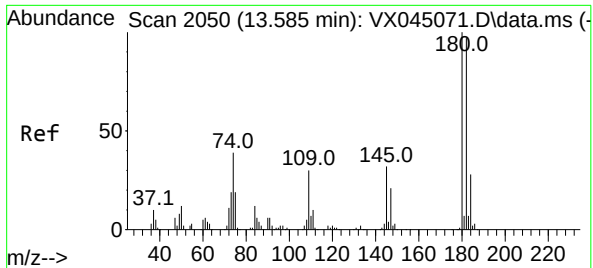


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.053 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16



Tgt Ion: 75 Resp: 7898
Ion Ratio Lower Upper
75 100
155 74.9 39.6 118.7
157 97.4 51.1 153.4





#93

1,2,4-Trichlorobenzene

Concen: 19.660 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBS01

Tgt Ion:180 Resp: 26039

Ion Ratio Lower Upper

180 100

182 94.3 47.3 141.9

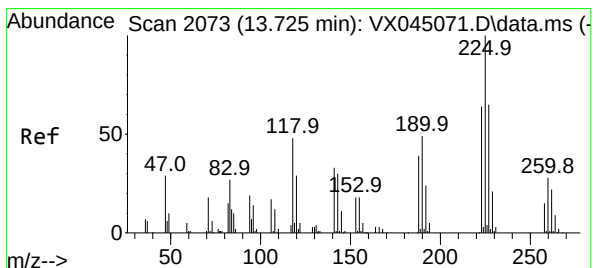
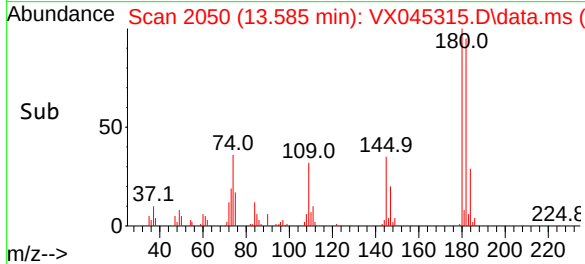
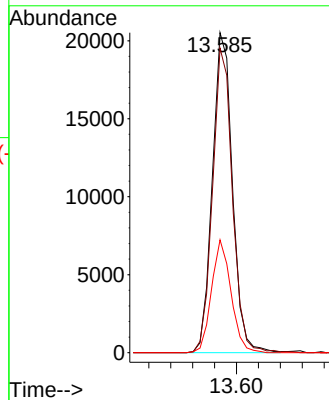
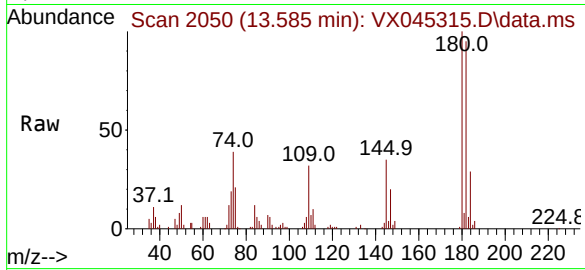
145 34.4 16.3 48.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#94

Hexachlorobutadiene

Concen: 20.613 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX045315.D

Acq: 18 Mar 2025 11:16

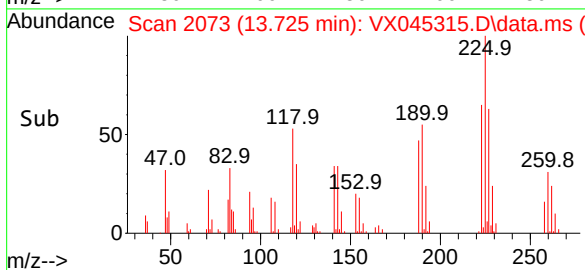
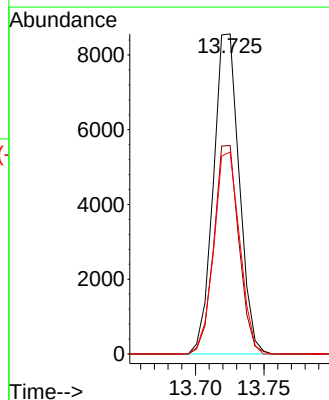
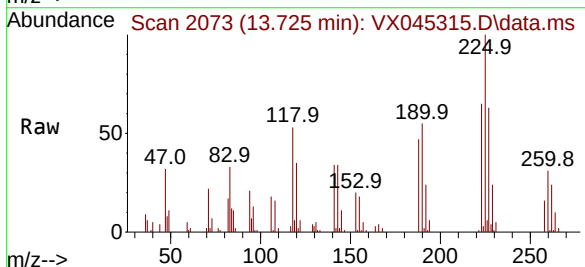
Tgt Ion:225 Resp: 11193

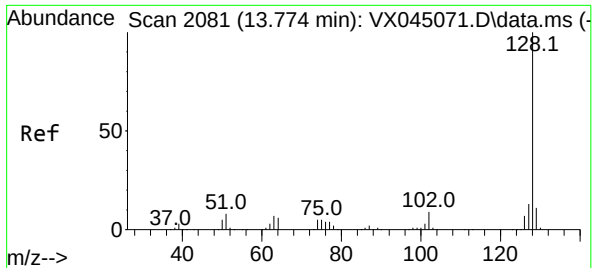
Ion Ratio Lower Upper

225 100

223 63.0 31.9 95.7

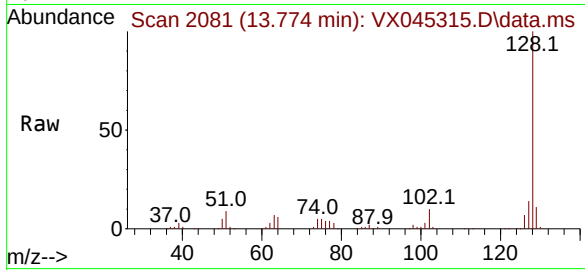
227 63.0 31.4 94.0





#95
Naphthalene
Concen: 19.547 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

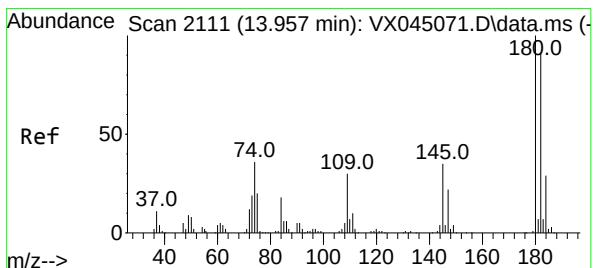
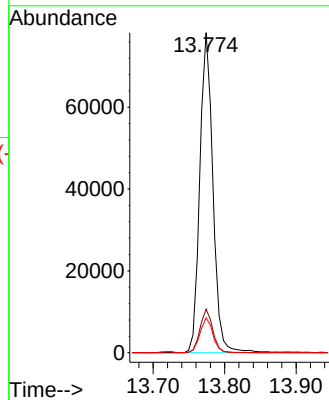
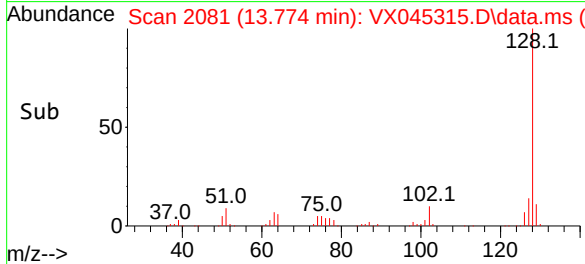
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBS01



Tgt Ion:128 Resp: 99469
Ion Ratio Lower Upper
128 100
127 13.2 10.3 15.5
129 10.7 8.7 13.1

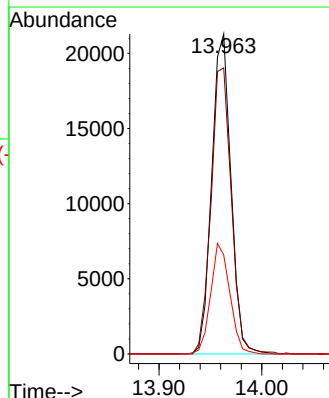
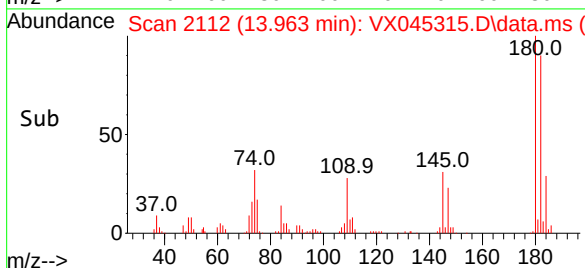
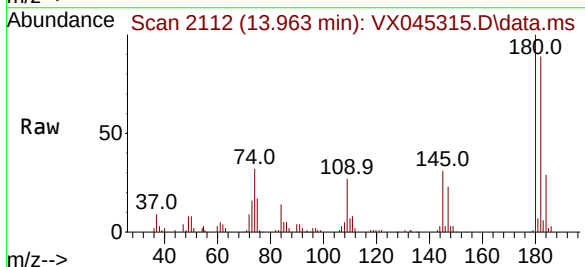
Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 19.719 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045315.D
Acq: 18 Mar 2025 11:16

Tgt Ion:180 Resp: 27553
Ion Ratio Lower Upper
180 100
182 94.8 47.5 142.6
145 34.5 17.0 50.9



Report of Analysis

Client:	G Environmental		Date Collected:	
Project:	Ave L		Date Received:	
Client Sample ID:	VX0318WBSD01		SDG No.:	Q1576
Lab Sample ID:	VX0318WBSD01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045316.D	1		03/18/25 11:43	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.7		0.22	1.00	ug/L
74-87-3	Chloromethane	16.8		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	15.8		0.26	1.00	ug/L
74-83-9	Bromomethane	18.4		1.40	5.00	ug/L
75-00-3	Chloroethane	19.8		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	17.9		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.2		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.4		0.23	1.00	ug/L
67-64-1	Acetone	100		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	14.8		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.5		0.16	1.00	ug/L
79-20-9	Methyl Acetate	25.7		0.27	1.00	ug/L
75-09-2	Methylene Chloride	19.1		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.4		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.7		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.7		1.50	5.00	ug/L
78-93-3	2-Butanone	110		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.7		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.5		0.19	1.00	ug/L
74-97-5	Bromochloromethane	22.4		0.22	1.00	ug/L
67-66-3	Chloroform	20.1		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.8		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	20.5		0.16	1.00	ug/L
71-43-2	Benzene	19.7		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.6		0.22	1.00	ug/L
79-01-6	Trichloroethene	19.0		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.5		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	20.4		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	5.00	ug/L
108-88-3	Toluene	20.4		0.14	1.00	ug/L

Report of Analysis

Client:	G Environmental		Date Collected:	
Project:	Ave L		Date Received:	
Client Sample ID:	VX0318WBSD01		SDG No.:	Q1576
Lab Sample ID:	VX0318WBSD01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045316.D	1		03/18/25 11:43	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.5		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.6		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.3		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	21.4		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.3		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	19.6		0.23	1.00	ug/L
108-90-7	Chlorobenzene	20.0		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	20.2		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	41.3		0.24	2.00	ug/L
95-47-6	o-Xylene	20.3		0.12	1.00	ug/L
100-42-5	Styrene	21.2		0.15	1.00	ug/L
75-25-2	Bromoform	20.4		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	20.7		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.8		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.8		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.3		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.9		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	21.1		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.1		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.1		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.3		70 (74) - 130 (125)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	52.5		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	51.0		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.4		70 (77) - 130 (121)	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	94200	5.544			
540-36-3	1,4-Difluorobenzene	169000	6.757			
3114-55-4	Chlorobenzene-d5	150000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	66800	12.018			

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Ave L	Date Received:	
Client Sample ID:	VX0318WBSD01	SDG No.:	Q1576
Lab Sample ID:	VX0318WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045316.D	1		03/18/25 11:43	VX031825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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\VX031825\
 Data File : VX045316.D
 Acq On : 18 Mar 2025 11:43
 Operator : JC/MD
 Sample : VX0318WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0318WBSD01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 03/19/2025
 Supervised By :Mahesh Dadoda 03/19/2025

Quant Time: Mar 19 01:41:11 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	94187	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	168890	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	150181	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	66832	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	81345	54.296	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.600%			
35) Dibromofluoromethane	5.379	113	59251	52.466	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.940%			
50) Toluene-d8	8.647	98	208939	51.033	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.060%			
62) 4-Bromofluorobenzene	11.079	95	73800	54.397	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.800%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	22132	18.667	ug/l	98
3) Chloromethane	1.307	50	24334	16.772	ug/l	98
4) Vinyl Chloride	1.368	62	22741	15.800	ug/l	97
5) Bromomethane	1.593	94	10409	18.396	ug/l	91
6) Chloroethane	1.666	64	13145	19.800	ug/l	99
7) Trichlorofluoromethane	1.874	101	34041	17.866	ug/l	98
8) Diethyl Ether	2.130	74	12697	17.037	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.313	101	23216	21.208	ug/l	99
10) Methyl Iodide	2.441	142	25842	18.890	ug/l	97
11) Tert butyl alcohol	2.977	59	25328	89.252	ug/l	100
12) 1,1-Dichloroethene	2.306	96	21337	18.436	ug/l	99
13) Acrolein	2.233	56	17483	53.295	ug/l	99
14) Allyl chloride	2.654	41	41829	20.304	ug/l	98
15) Acrylonitrile	3.062	53	78894	103.731	ug/l	99
16) Acetone	2.386	43	70913	102.017	ug/l	99
17) Carbon Disulfide	2.502	76	45656	14.811	ug/l	97
18) Methyl Acetate	2.703	43	42913	25.662	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	79562	20.490	ug/l	98
20) Methylene Chloride	2.782	84	26357	19.142	ug/l	95
21) trans-1,2-Dichloroethene	3.081	96	21084	18.440	ug/l	95
22) Diisopropyl ether	3.764	45	85197	20.334	ug/l	93
23) Vinyl Acetate	3.715	43	351902	100.645	ug/l	98
24) 1,1-Dichloroethane	3.605	63	46155	19.656	ug/l	98
25) 2-Butanone	4.556	43	111349	106.420	ug/l	97
26) 2,2-Dichloropropane	4.465	77	30901	28.056	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	27512	19.492	ug/l	94
28) Bromochloromethane	4.885	49	25092	22.419	ug/l	99
29) Tetrahydrofuran	5.007	42	71884	102.304	ug/l	99
30) Chloroform	5.086	83	46961	20.128	ug/l	100
31) Cyclohexane	5.464	56	38035	18.660	ug/l	92
32) 1,1,1-Trichloroethane	5.373	97	37299	19.794	ug/l	98
36) 1,1-Dichloropropene	5.684	75	29283	18.907	ug/l	99
37) Ethyl Acetate	4.715	43	40485	20.286	ug/l	99
38) Carbon Tetrachloride	5.666	117	31045	19.744	ug/l	97
39) Methylcyclohexane	7.373	83	38119	20.541	ug/l	97
40) Benzene	6.031	78	96177	19.666	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031825\
 Data File : VX045316.D
 Acq On : 18 Mar 2025 11:43
 Operator : JC/MD
 Sample : VX0318WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0318WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/19/2025
 Supervised By : Mahesh Dadoda 03/19/2025

Quant Time: Mar 19 01:41:11 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	22596	20.940	ug/l	94
42) 1,2-Dichloroethane	6.080	62	38026	21.592	ug/l	98
43) Isopropyl Acetate	6.336	43	62490	21.176	ug/l	99
44) Trichloroethene	7.123	130	21822	19.003	ug/l	94
45) 1,2-Dichloropropane	7.427	63	25816	20.531	ug/l	94
46) Dibromomethane	7.574	93	18760	21.108	ug/l	97
47) Bromodichloromethane	7.818	83	35623	20.434	ug/l	97
48) Methyl methacrylate	7.690	41	31848	21.512	ug/l	96
49) 1,4-Dioxane	7.659	88	11556	370.034	ug/l	93
51) 4-Methyl-2-Pentanone	8.574	43	222705	112.395	ug/l	99
52) Toluene	8.714	92	58577	20.414	ug/l	97
53) t-1,3-Dichloropropene	8.976	75	29819	20.460	ug/l	95
54) cis-1,3-Dichloropropene	8.366	75	36677	21.582	ug/l	96
55) 1,1,2-Trichloroethane	9.147	97	25123	21.268	ug/l	97
56) Ethyl methacrylate	9.116	69	39272	21.871	ug/l	96
57) 1,3-Dichloropropane	9.305	76	43040	21.054	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	86100	98.298	ug/l	99
59) 2-Hexanone	9.427	43	159687	111.230	ug/l	99
60) Dibromochloromethane	9.519	129	26487	21.445	ug/l	100
61) 1,2-Dibromoethane	9.610	107	25153	21.330	ug/l	98
64) Tetrachloroethene	9.275	164	18822	19.569	ug/l	95
65) Chlorobenzene	10.079	112	63629	20.023	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	21107	19.945	ug/l	97
67) Ethyl Benzene	10.189	91	112021	20.231	ug/l	100
68) m/p-Xylenes	10.299	106	83669	41.277	ug/l	99
69) o-Xylene	10.640	106	41442	20.271	ug/l	99
70) Styrene	10.653	104	70171	21.213	ug/l	99
71) Bromoform	10.799	173	16250	20.363	ug/l #	99
73) Isopropylbenzene	10.957	105	108230	20.748	ug/l	98
74) N-amyl acetate	10.842	43	51327	20.969	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.207	83	39864	20.825	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	32413m	20.837	ug/l	
77) Bromobenzene	11.195	156	25277	20.537	ug/l	98
78) n-propylbenzene	11.299	91	125607	21.316	ug/l	98
79) 2-Chlorotoluene	11.360	91	77573	20.671	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	89825	21.296	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	9250	20.350	ug/l	88
82) 4-Chlorotoluene	11.451	91	86122	21.056	ug/l	100
83) tert-Butylbenzene	11.713	119	88195	20.351	ug/l	97
84) 1,2,4-Trimethylbenzene	11.750	105	90117	21.234	ug/l	100
85) sec-Butylbenzene	11.890	105	111586	21.495	ug/l	99
86) p-Isopropyltoluene	12.006	119	90468	21.564	ug/l	98
87) 1,3-Dichlorobenzene	11.969	146	45671	20.801	ug/l	98
88) 1,4-Dichlorobenzene	12.043	146	45020	20.267	ug/l	97
89) n-Butylbenzene	12.329	91	78785	21.804	ug/l	99
90) Hexachloroethane	12.536	117	14375	18.944	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	46115	20.937	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7852	21.055	ug/l	92
93) 1,2,4-Trichlorobenzene	13.585	180	25188	20.084	ug/l	99
94) Hexachlorobutadiene	13.725	225	11003	21.399	ug/l	98
95) Naphthalene	13.774	128	98470	20.436	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	26632	20.129	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031825\
Data File : VX045316.D
Acq On : 18 Mar 2025 11:43
Operator : JC/MD
Sample : VX0318WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

Quant Time: Mar 19 01:41:11 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

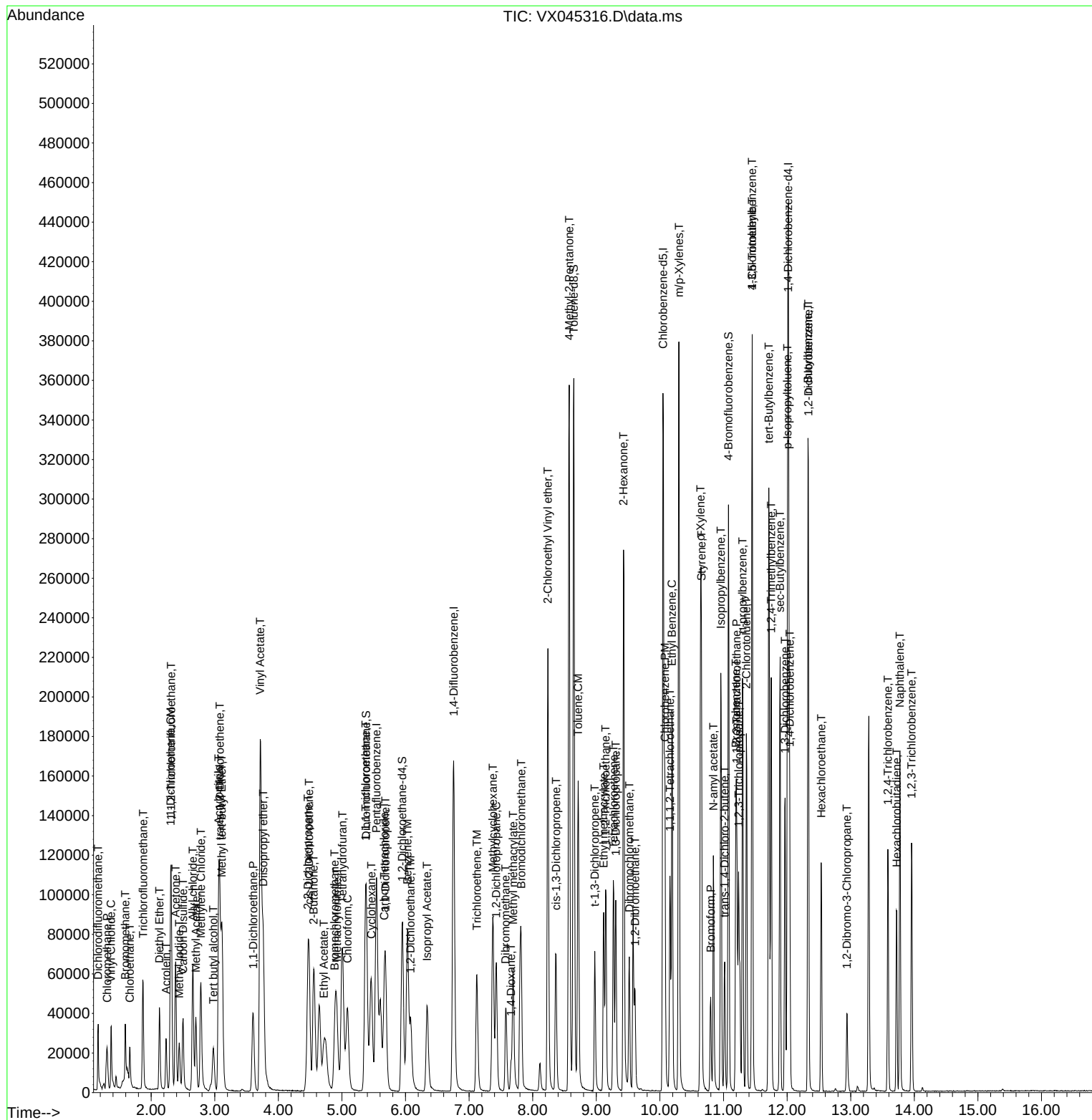
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Data File : VX045316.D
Acq On : 18 Mar 2025 11:43
Operator : JC/MD
Sample : VX0318WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

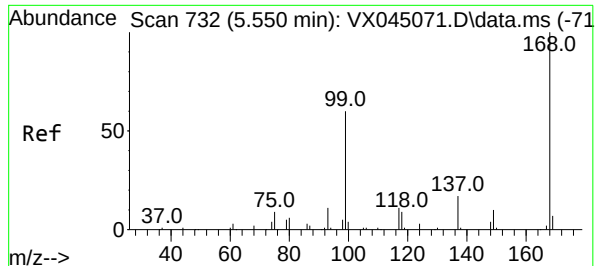
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

Quant Time: Mar 19 01:41:11 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





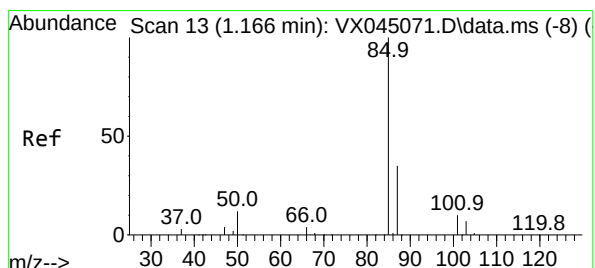
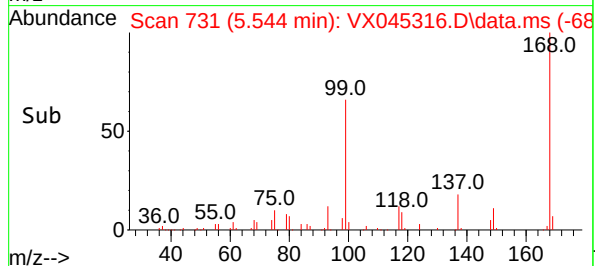
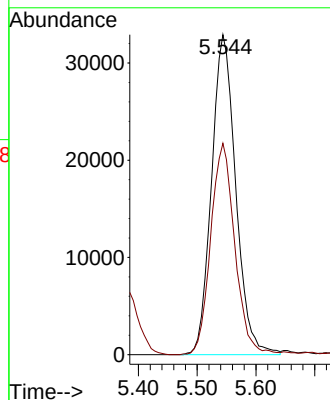
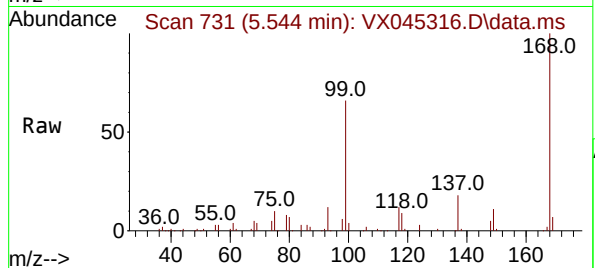
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01

Tgt Ion:168 Resp: 9418
Ion Ratio Lower Upper
168 100
99 66.1 48.2 72.4

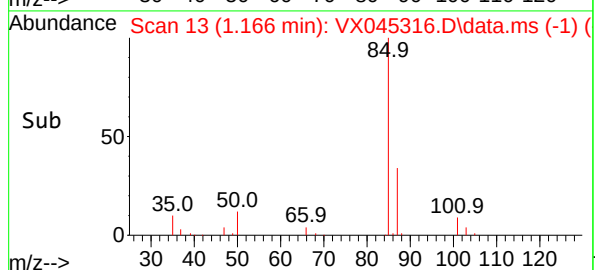
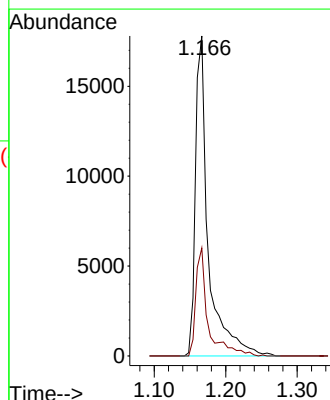
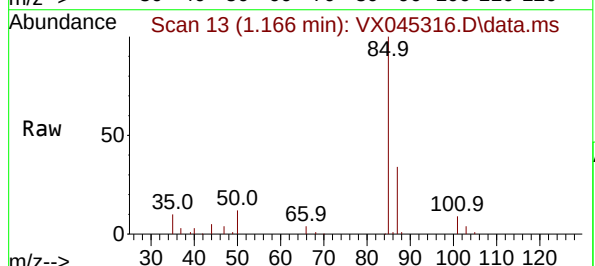
Manual Integrations
APPROVED

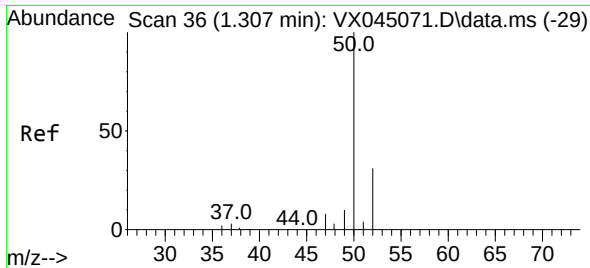
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#2
Dichlorodifluoromethane
Concen: 18.667 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

Tgt Ion: 85 Resp: 22132
Ion Ratio Lower Upper
85 100
87 33.8 17.4 52.3





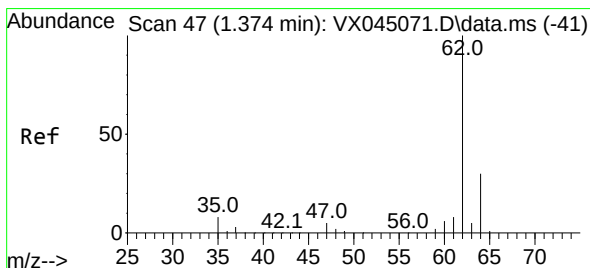
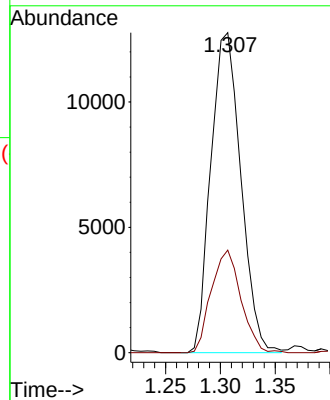
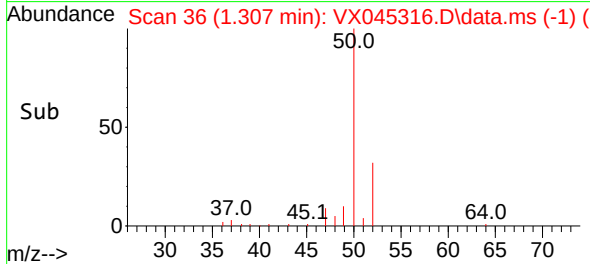
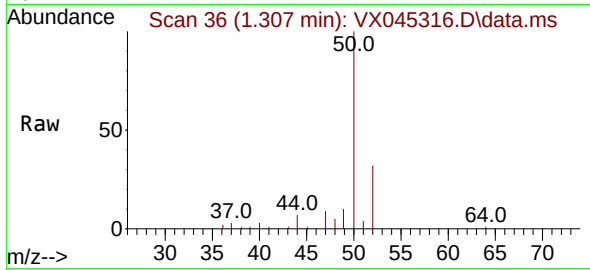
#3
Chloromethane
Concen: 16.772 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01

Tgt Ion: 50 Resp: 24334
Ion Ratio Lower Upper
50 100
52 32.1 25.0 37.4

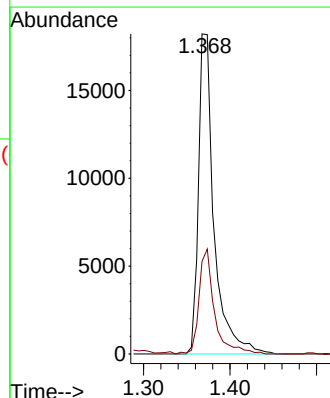
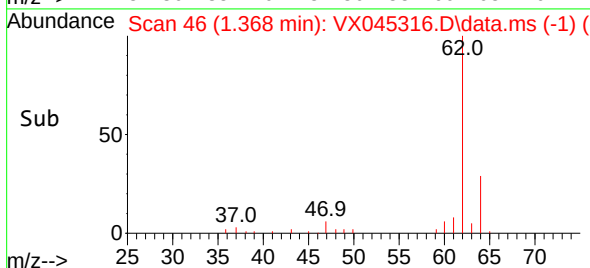
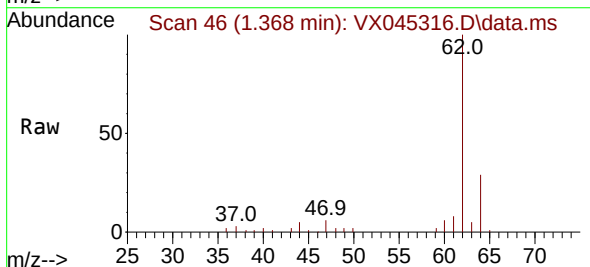
Manual Integrations
APPROVED

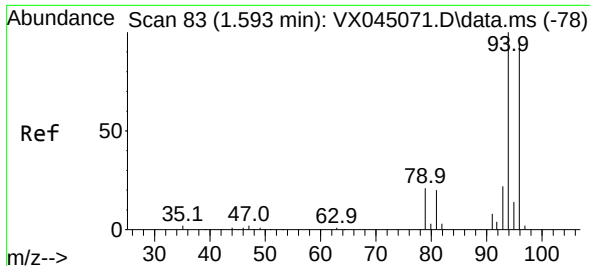
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#4
Vinyl Chloride
Concen: 15.800 ug/l
RT: 1.368 min Scan# 46
Delta R.T. -0.006 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

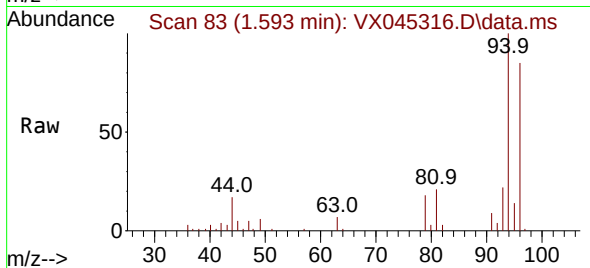
Tgt Ion: 62 Resp: 22741
Ion Ratio Lower Upper
62 100
64 28.9 24.3 36.5





#5
Bromomethane
Concen: 18.396 ug/l
RT: 1.593 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

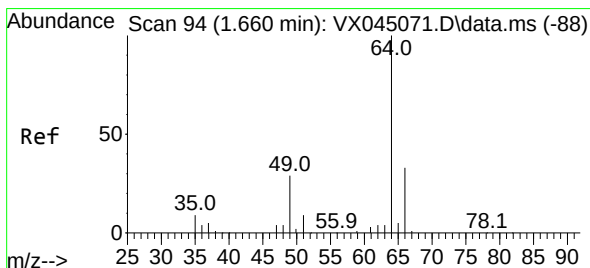
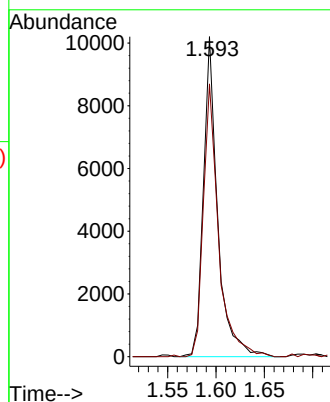
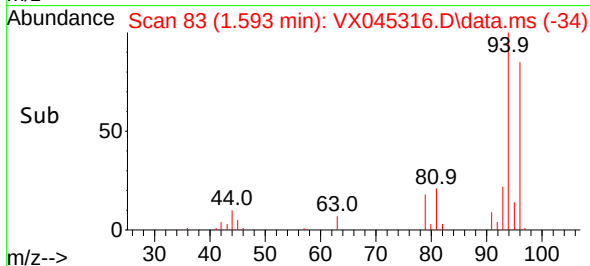
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01



Tgt Ion: 94 Resp: 10409
Ion Ratio Lower Upper
94 100
96 85.2 75.0 112.4

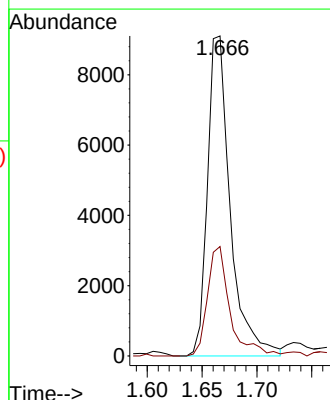
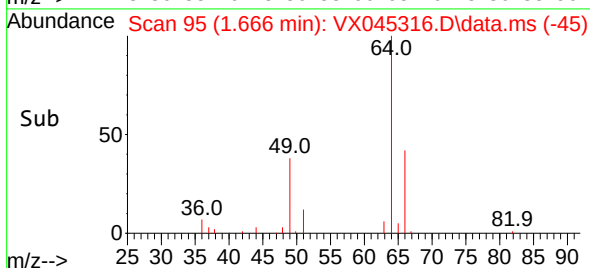
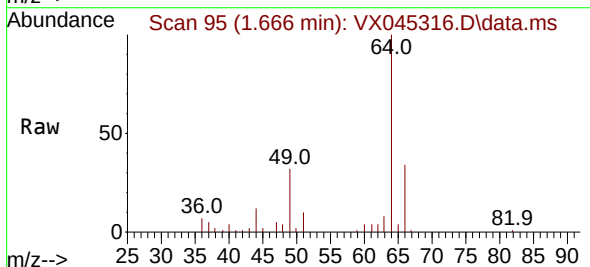
Manual Integrations
APPROVED

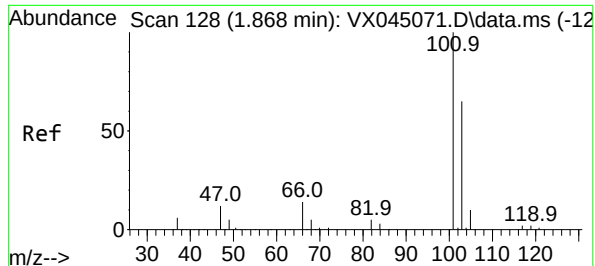
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#6
Chloroethane
Concen: 19.800 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

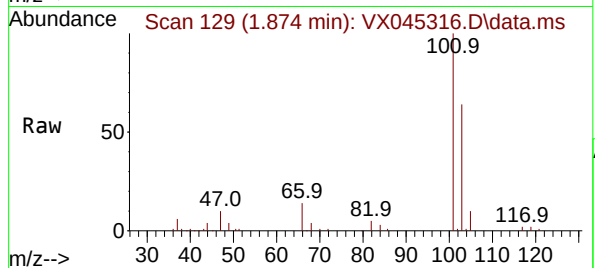
Tgt Ion: 64 Resp: 13145
Ion Ratio Lower Upper
64 100
66 34.2 26.7 40.1





#7
Trichlorofluoromethane
Concen: 17.866 ug/l
RT: 1.874 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

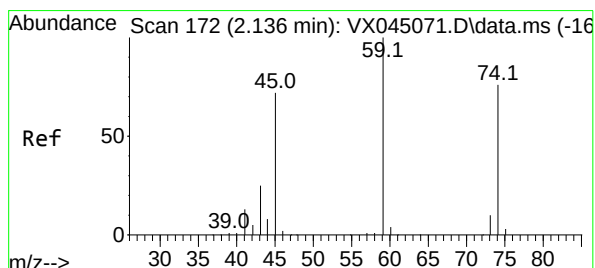
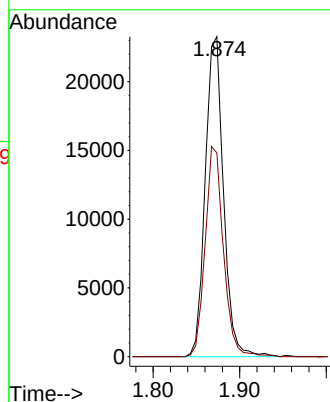
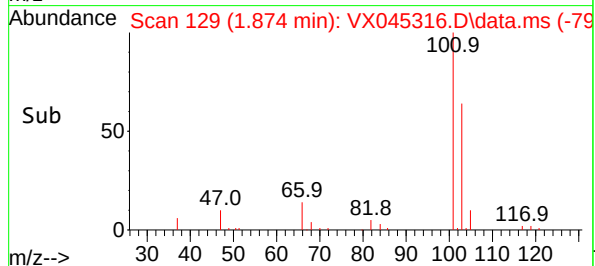
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01



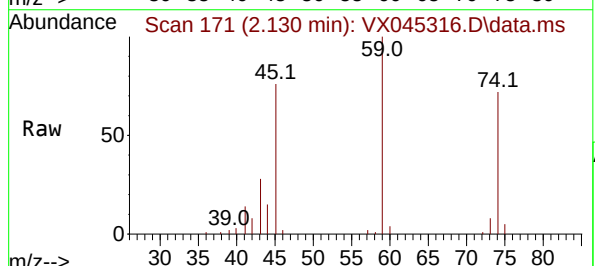
Tgt Ion:101 Resp: 3404
Ion Ratio Lower Upper
101 100
103 63.7 52.1 78.1

Manual Integrations
APPROVED

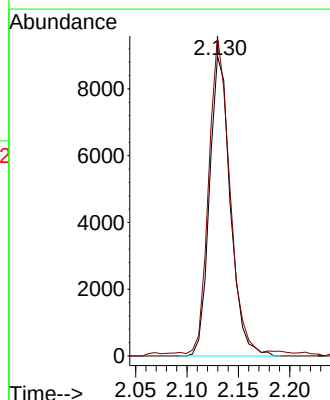
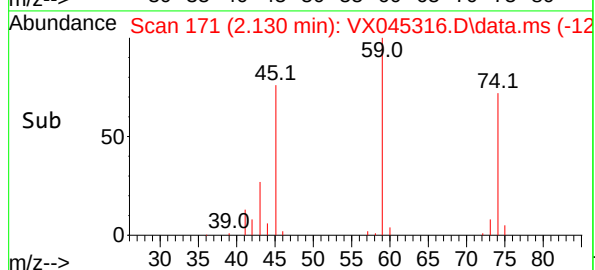
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

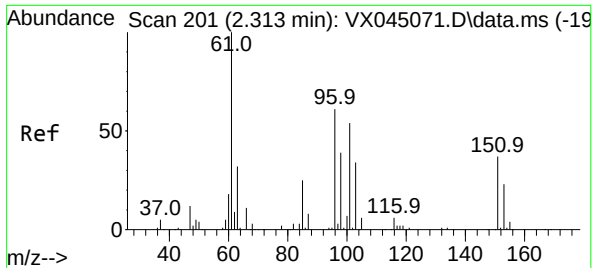


#8
Diethyl Ether
Concen: 17.037 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43



Tgt Ion: 74 Resp: 12697
Ion Ratio Lower Upper
74 100
45 105.1 51.5 154.5





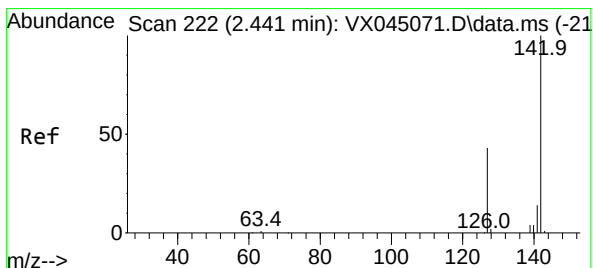
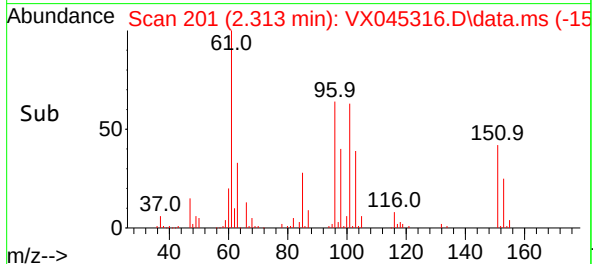
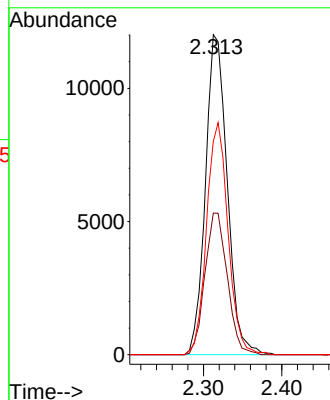
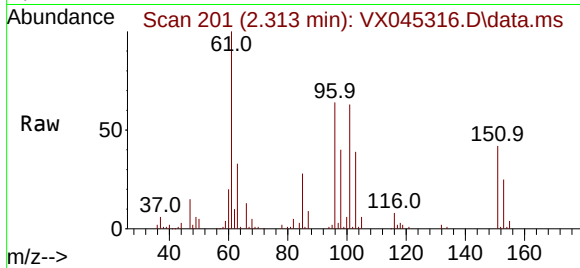
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.208 ug/l
RT: 2.313 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01

Tgt Ion:101 Resp: 23210
Ion Ratio Lower Upper
101 100
85 45.5 36.2 54.4
151 71.5 56.4 84.6

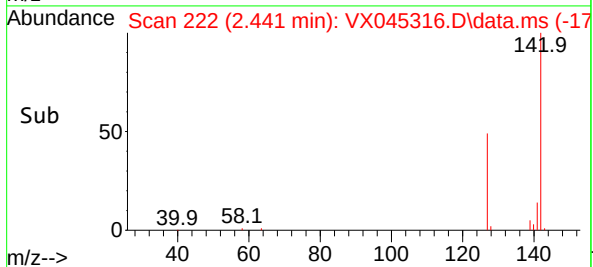
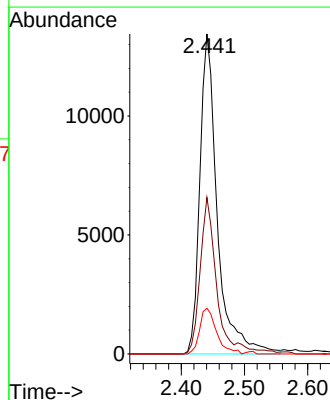
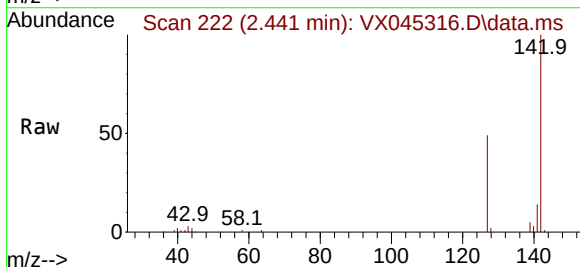
Manual Integrations
APPROVED

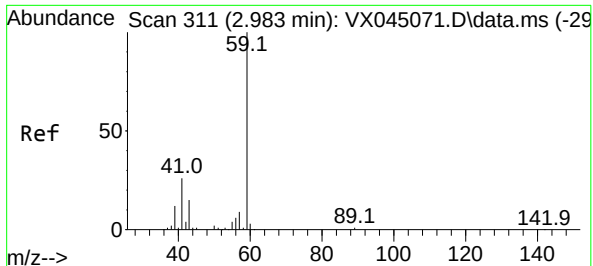
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#10
Methyl Iodide
Concen: 18.890 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

Tgt Ion:142 Resp: 25842
Ion Ratio Lower Upper
142 100
127 46.8 35.4 53.2
141 13.8 11.6 17.4





#11

Tert butyl alcohol

Concen: 89.252 ug/l

RT: 2.977 min Scan# 311

Delta R.T. -0.006 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBSD01

Tgt Ion: 59 Resp: 25328

Ion Ratio Lower Upper

59 100

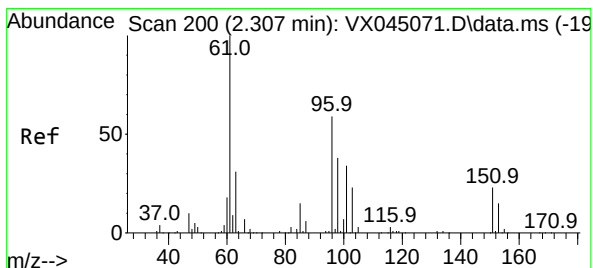
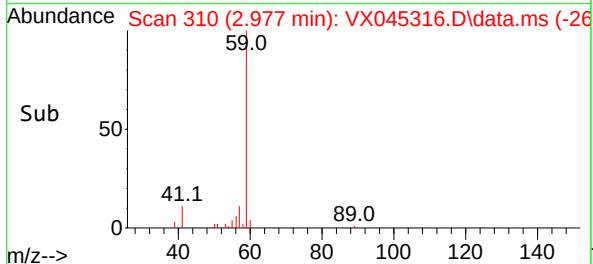
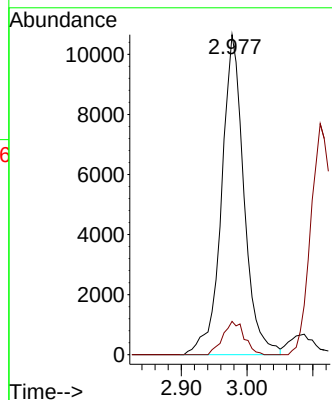
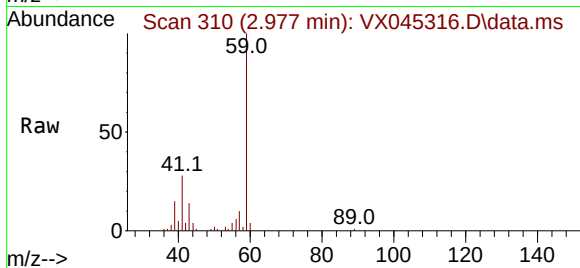
57 9.9 7.8 11.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#12

1,1-Dichloroethene

Concen: 18.436 ug/l

RT: 2.306 min Scan# 200

Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

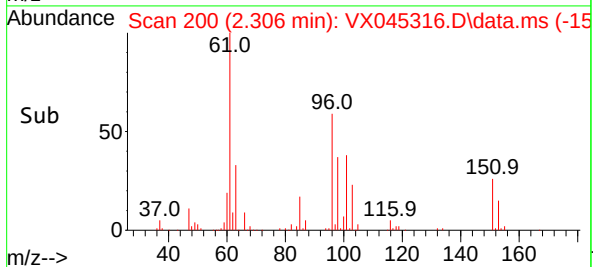
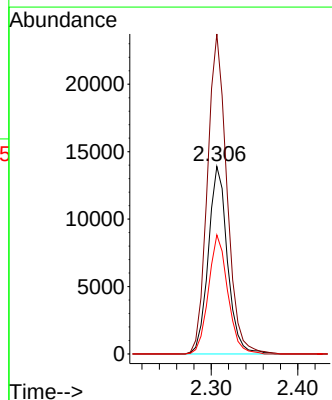
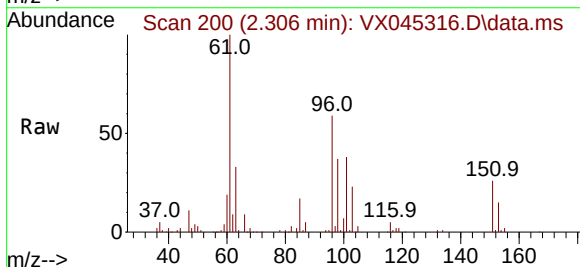
Tgt Ion: 96 Resp: 21337

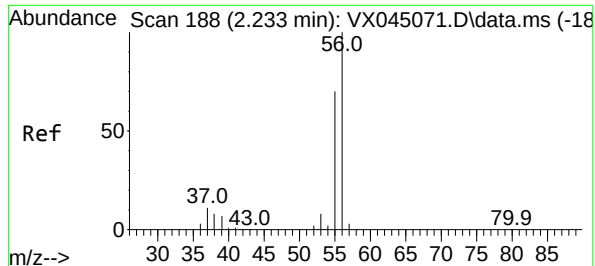
Ion Ratio Lower Upper

96 100

61 170.6 134.6 202.0

98 63.4 51.0 76.6





#13

Acrolein

Concen: 53.295 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBSD01

Tgt Ion: 56 Resp: 1748

Ion Ratio Lower Upper

56 100

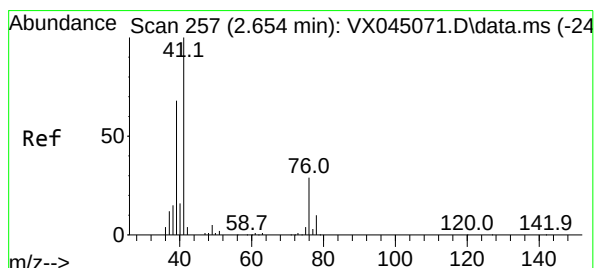
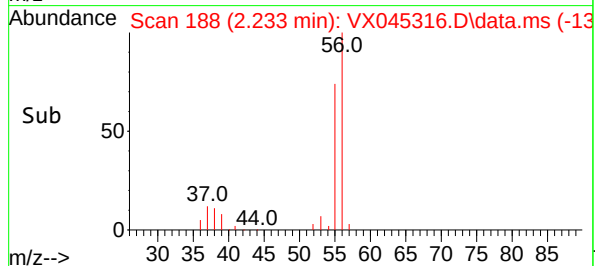
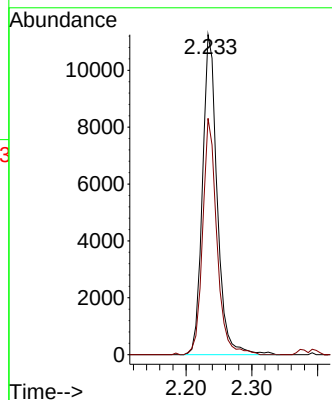
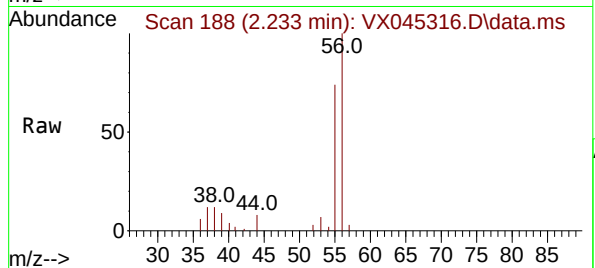
55 71.3 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#14

Allyl chloride

Concen: 20.304 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

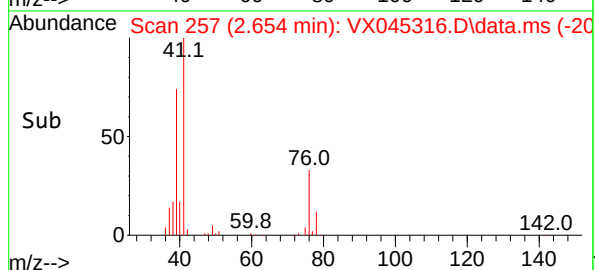
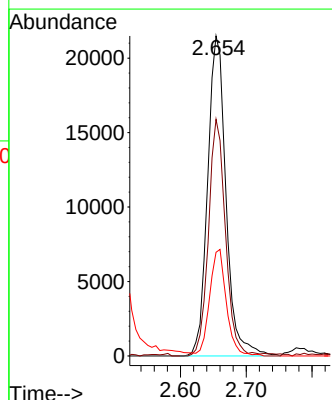
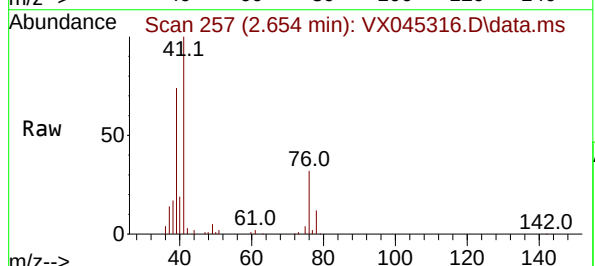
Tgt Ion: 41 Resp: 41829

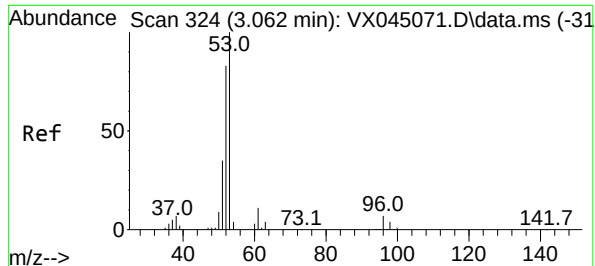
Ion Ratio Lower Upper

41 100

39 68.3 53.8 80.8

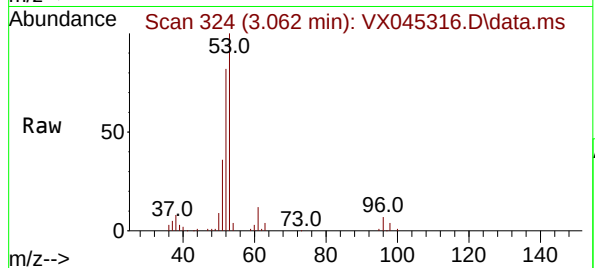
76 30.3 25.2 37.8





#15
Acrylonitrile
Concen: 103.731 ug/l
RT: 3.062 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

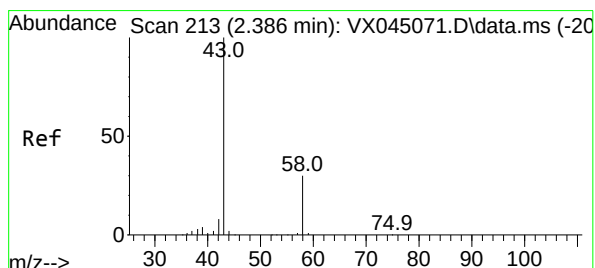
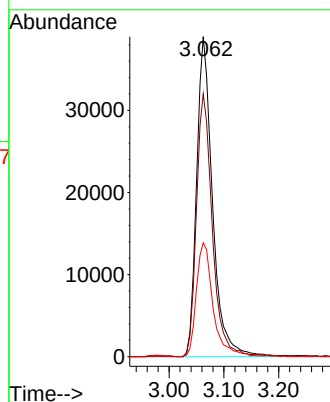
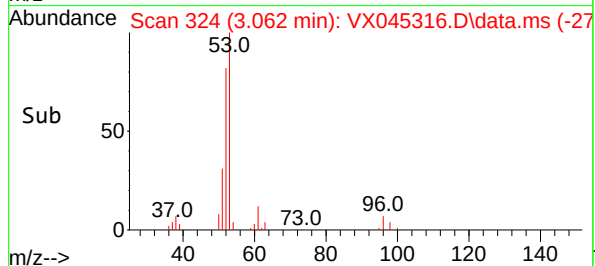
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01



Tgt Ion: 53 Resp: 78894
Ion Ratio Lower Upper
53 100
52 82.2 66.2 99.2
51 37.2 29.0 43.4

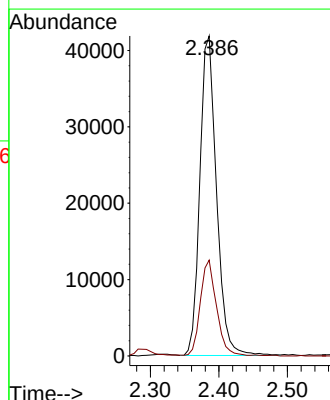
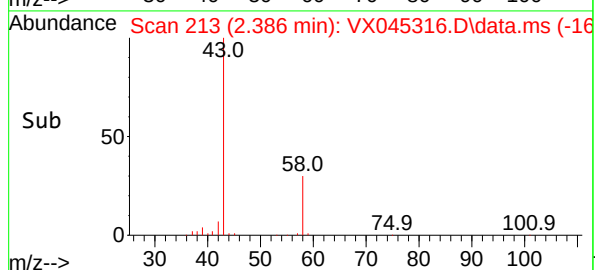
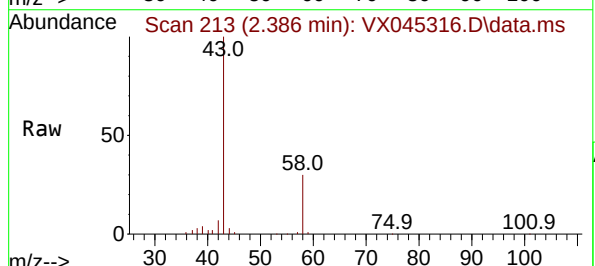
Manual Integrations
APPROVED

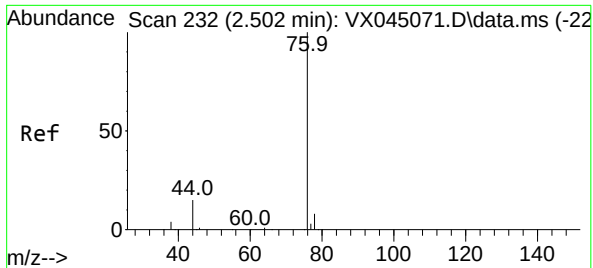
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#16
Acetone
Concen: 102.017 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

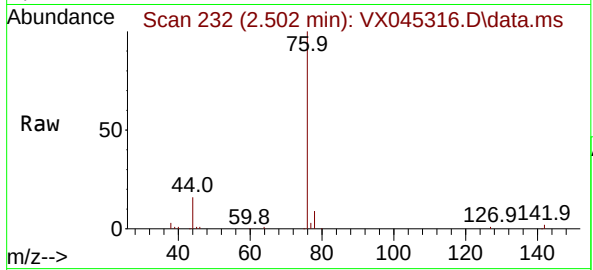
Tgt Ion: 43 Resp: 70913
Ion Ratio Lower Upper
43 100
58 30.0 24.2 36.4





#17
Carbon Disulfide
Concen: 14.811 ug/l
RT: 2.502 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

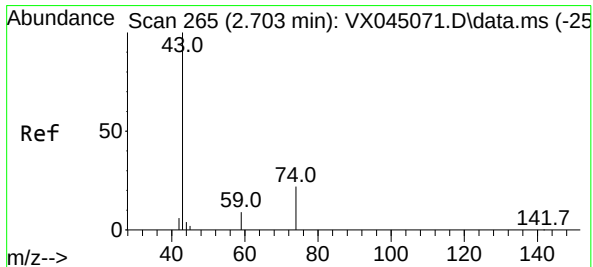
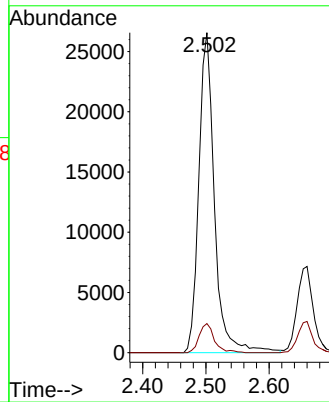
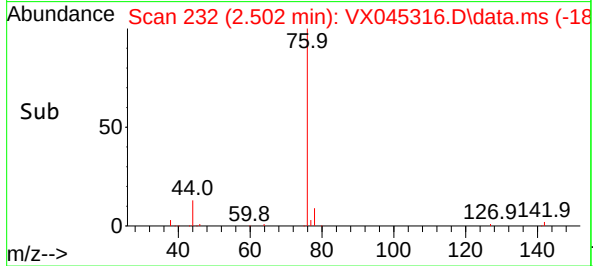
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01



Tgt Ion: 76 Resp: 45650
Ion Ratio Lower Upper
76 100
78 9.1 6.6 9.8

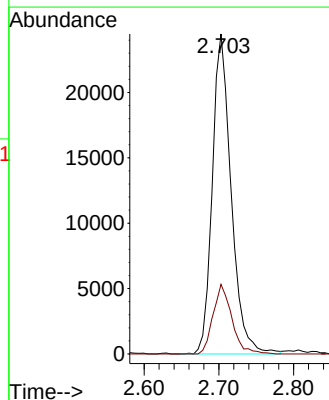
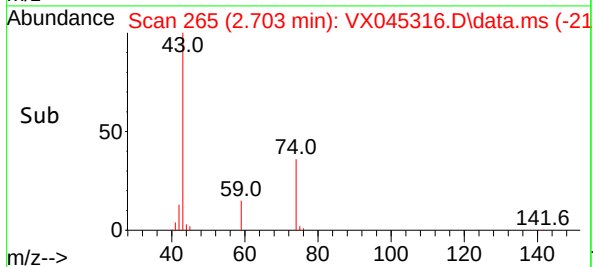
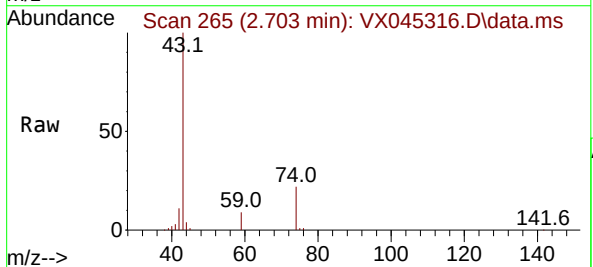
Manual Integrations
APPROVED

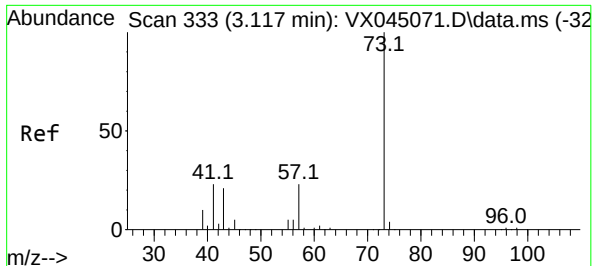
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#18
Methyl Acetate
Concen: 25.662 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

Tgt Ion: 43 Resp: 42913
Ion Ratio Lower Upper
43 100
74 21.6 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 20.490 ug/l

RT: 3.111 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBSD01

Tgt Ion: 73 Resp: 7956

Ion Ratio Lower Upper

73 100

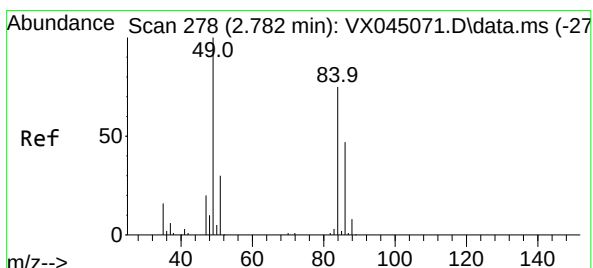
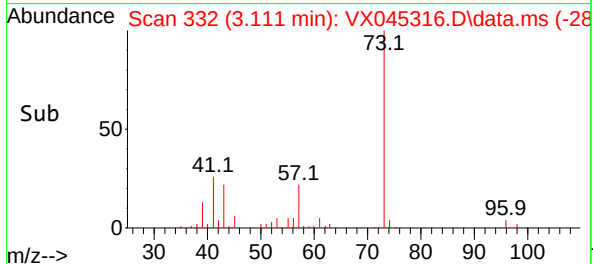
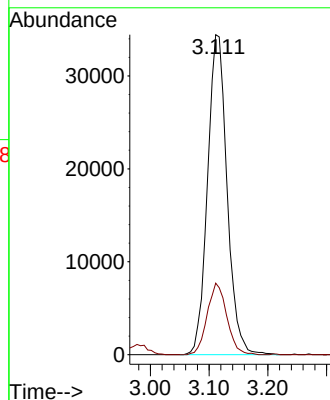
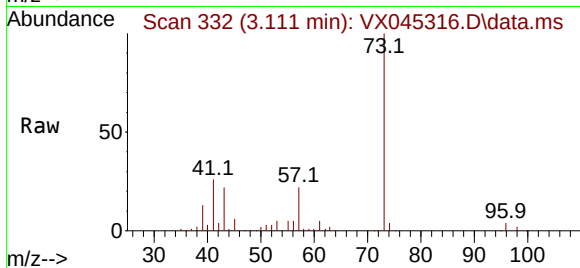
57 22.3 18.5 27.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#20

Methylene Chloride

Concen: 19.142 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Tgt Ion: 84 Resp: 26357

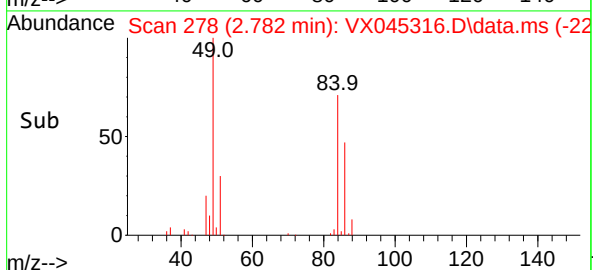
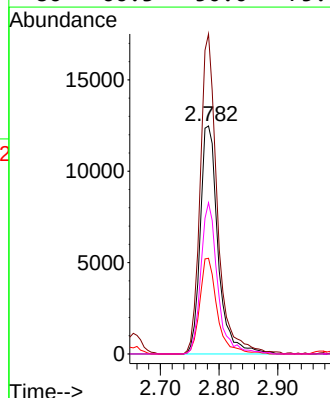
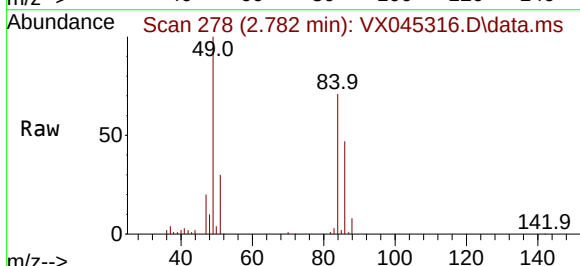
Ion Ratio Lower Upper

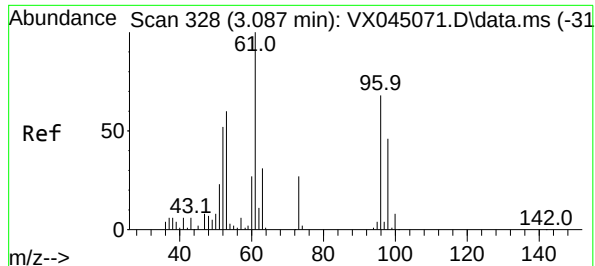
84 100

49 140.3 106.5 159.7

51 42.0 32.1 48.1

86 66.3 50.0 75.0





#21

trans-1,2-Dichloroethene

Concen: 18.440 ug/l

RT: 3.081 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBSD01

Tgt Ion: 96 Resp: 21084

Ion Ratio Lower Upper

96 100

61 154.3 117.0 175.4

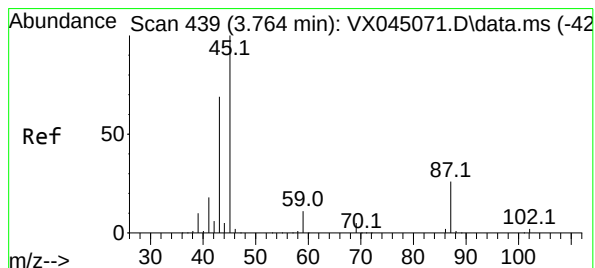
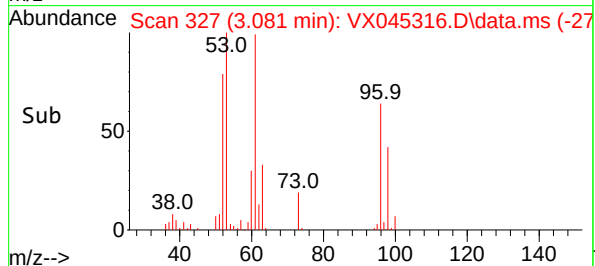
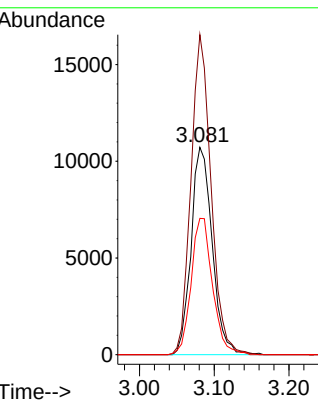
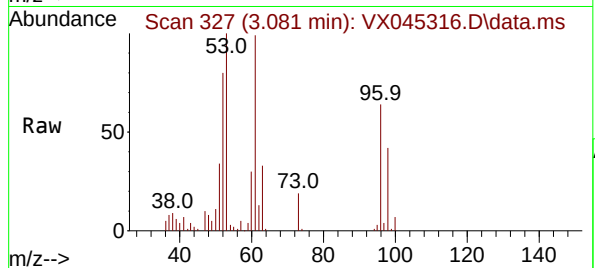
98 65.8 53.4 80.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#22

Diisopropyl ether

Concen: 20.334 ug/l

RT: 3.764 min Scan# 439

Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Tgt Ion: 45 Resp: 85197

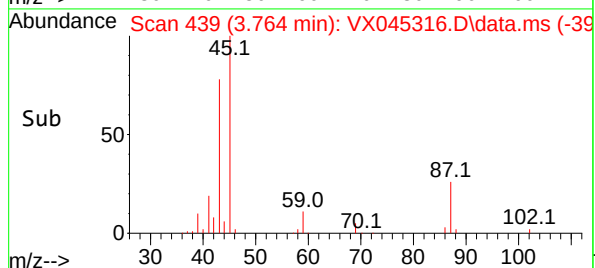
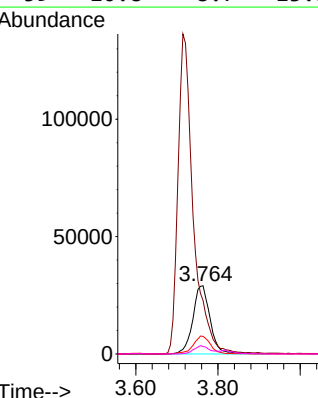
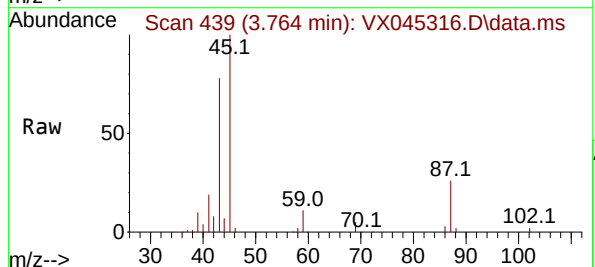
Ion Ratio Lower Upper

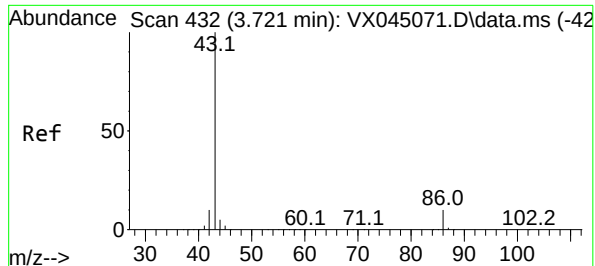
45 100

43 77.3 54.9 82.3

87 25.9 21.0 31.4

59 10.8 8.7 13.1





#23

Vinyl Acetate

Concen: 100.645 ug/l

RT: 3.715 min Scan# 41

Delta R.T. -0.006 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBSD01

Tgt Ion: 43 Resp: 35190

Ion Ratio Lower Upper

43 100

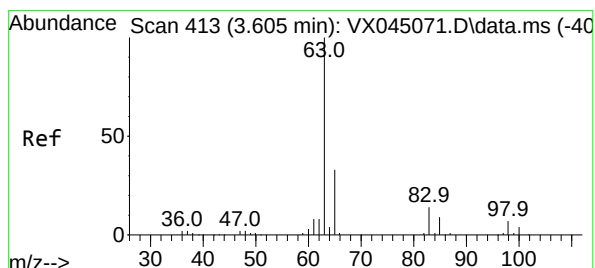
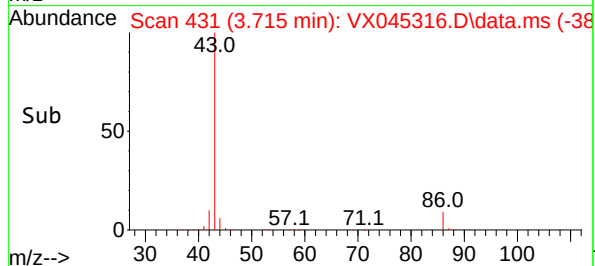
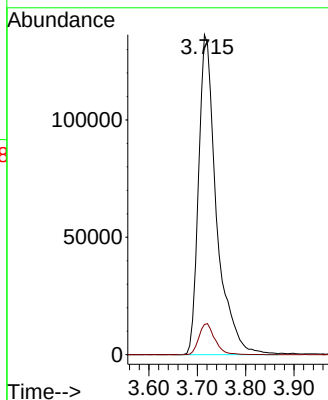
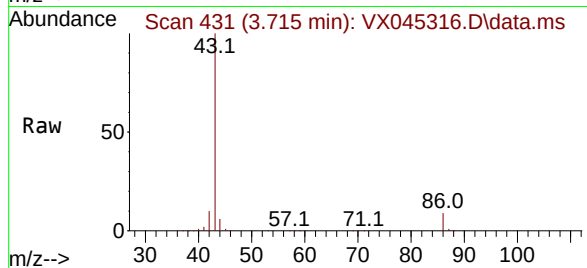
86 9.5 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#24

1,1-Dichloroethane

Concen: 19.656 ug/l

RT: 3.605 min Scan# 413

Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

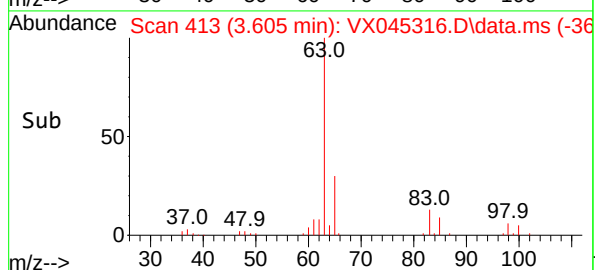
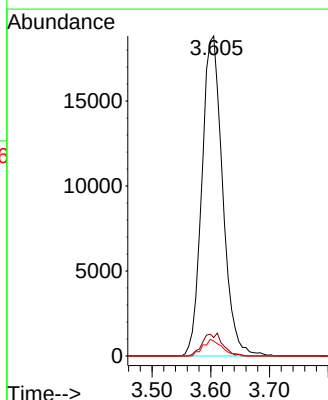
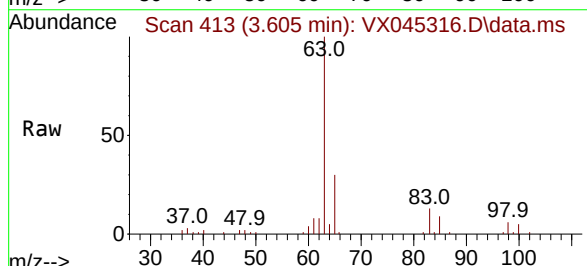
Tgt Ion: 63 Resp: 46155

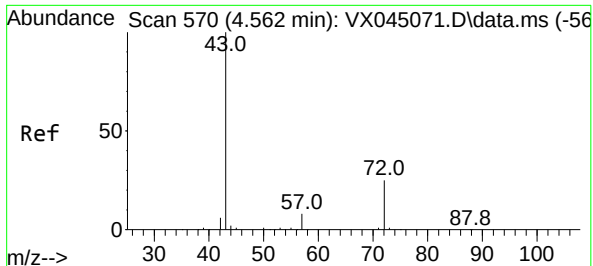
Ion Ratio Lower Upper

63 100

98 5.8 3.4 10.2

100 4.7 2.1 6.5





#25

2-Butanone

Concen: 106.420 ug/l

RT: 4.556 min Scan# 51

Delta R.T. -0.006 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBSD01

Tgt Ion: 43 Resp: 111349

Ion Ratio Lower Upper

43 100

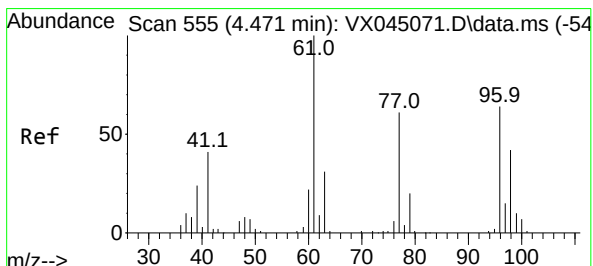
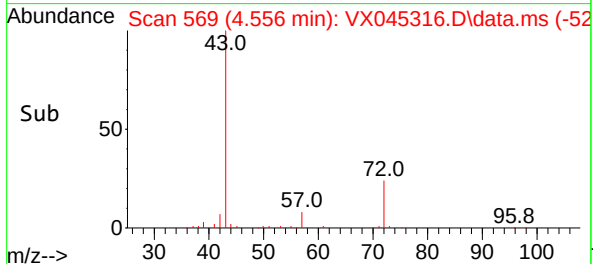
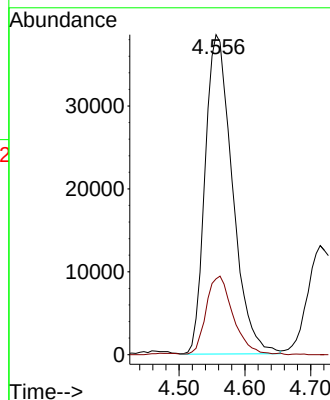
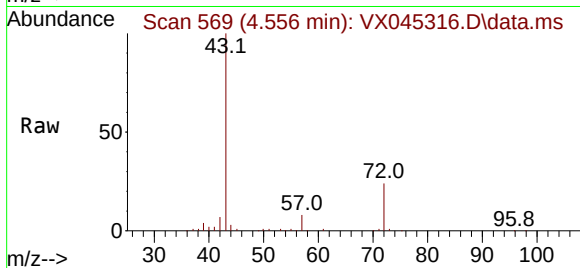
72 23.6 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#26

2,2-Dichloropropane

Concen: 28.056 ug/l

RT: 4.465 min Scan# 554

Delta R.T. -0.006 min

Lab File: VX045316.D

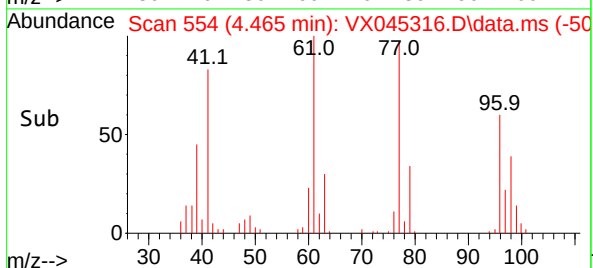
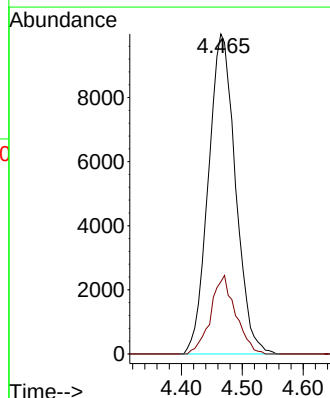
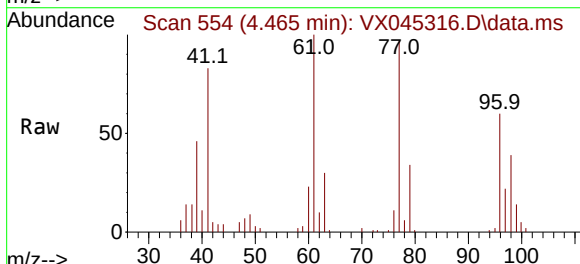
Acq: 18 Mar 2025 11:43

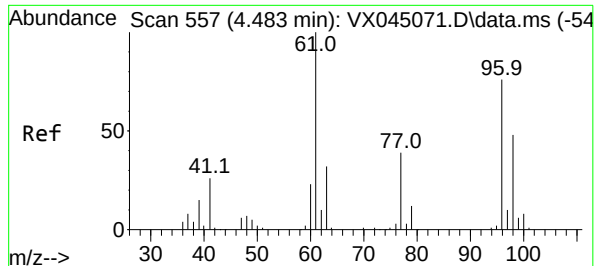
Tgt Ion: 77 Resp: 30901

Ion Ratio Lower Upper

77 100

97 22.4 12.4 37.0





#27

cis-1,2-Dichloroethene

Concen: 19.492 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBSD01

Tgt Ion: 96 Resp: 2751

Ion Ratio Lower Upper

96 100

61 152.6 0.0 283.2

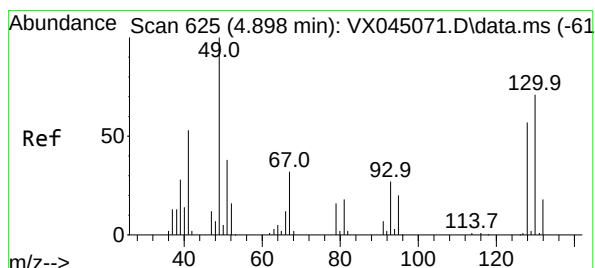
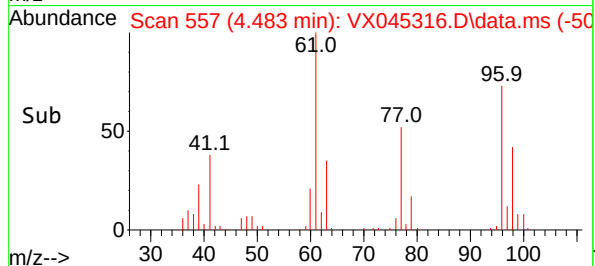
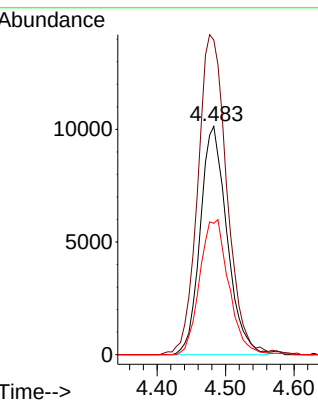
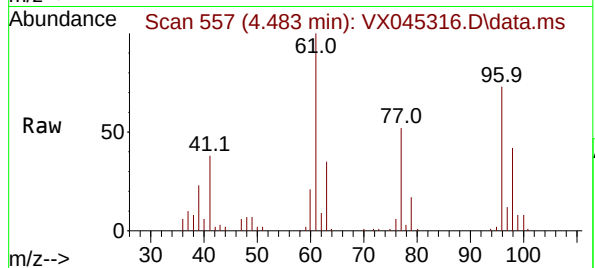
98 64.1 0.0 128.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#28

Bromochloromethane

Concen: 22.419 ug/l

RT: 4.885 min Scan# 623

Delta R.T. -0.012 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

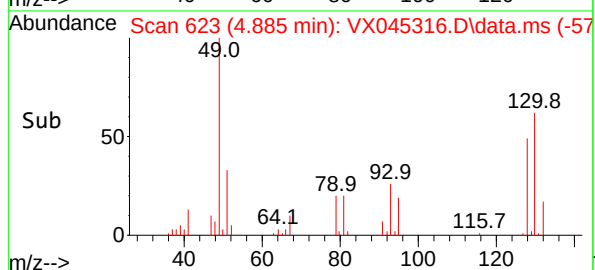
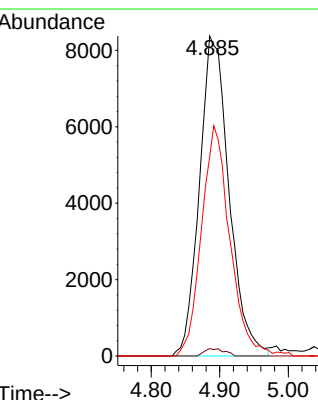
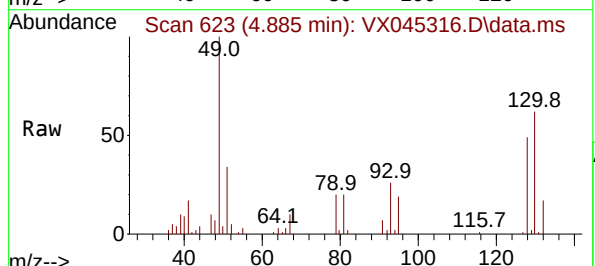
Tgt Ion: 49 Resp: 25092

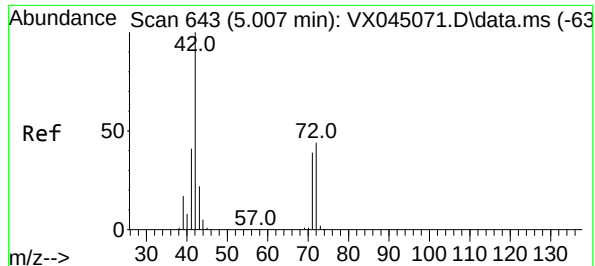
Ion Ratio Lower Upper

49 100

129 1.6 0.0 3.4

130 69.1 56.1 84.1





#29

Tetrahydrofuran

Concen: 102.304 ug/l

RT: 5.007 min Scan# 643

Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBSD01

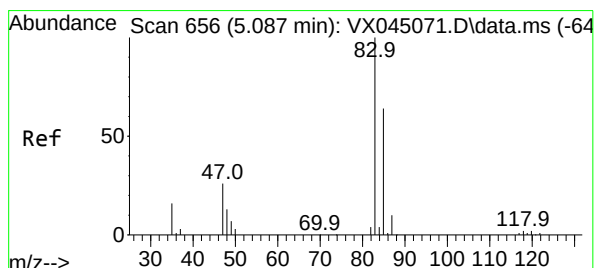
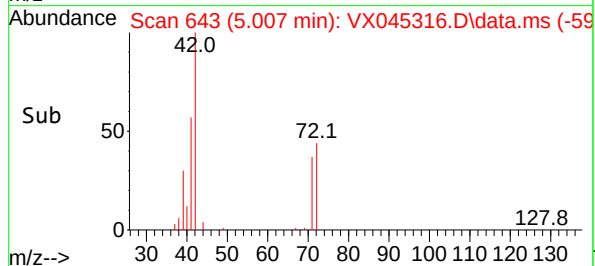
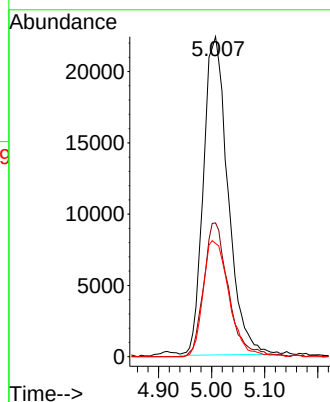
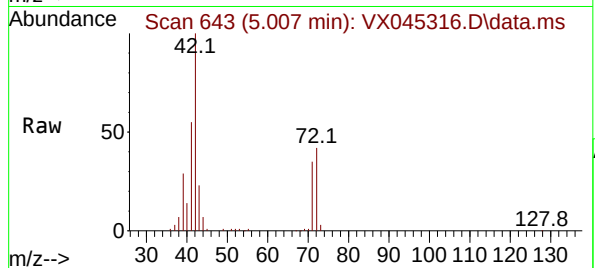
Tgt Ion:	42	Resp:	71884
Ion Ratio	Lower	Upper	
42	100		
72	42.5	34.1	51.1
71	38.6	31.4	47.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#30

Chloroform

Concen: 20.128 ug/l

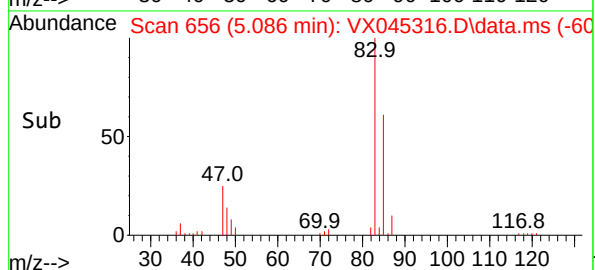
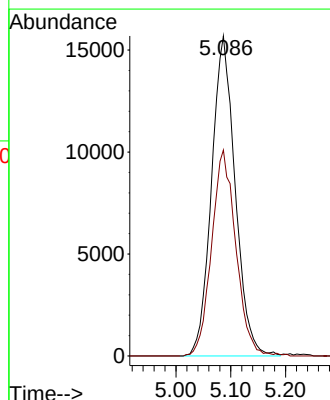
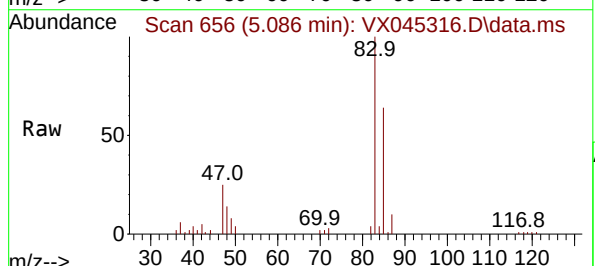
RT: 5.086 min Scan# 656

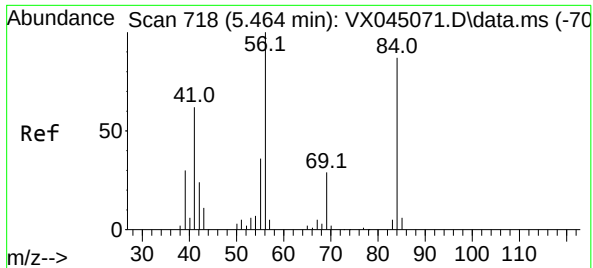
Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

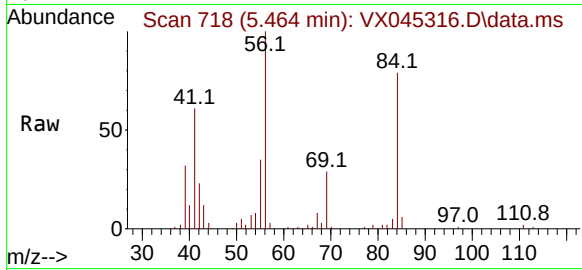
Tgt Ion:	83	Resp:	46961
Ion Ratio	Lower	Upper	
83	100		
85	64.4	51.4	77.2





#31
Cyclohexane
Concen: 18.660 ug/l
RT: 5.464 min Scan# 718
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

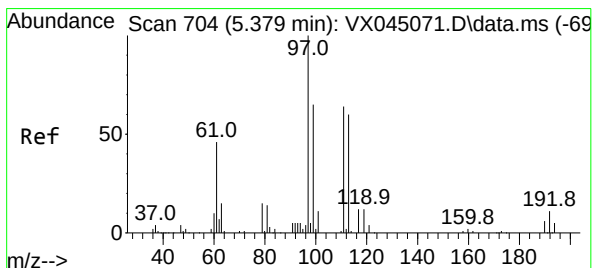
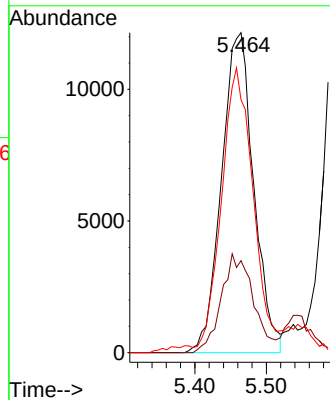
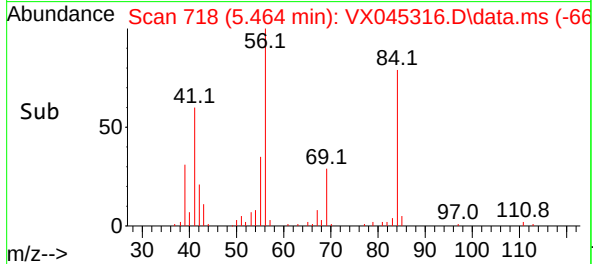
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01



Tgt Ion: 56 Resp: 3803
Ion Ratio Lower Upper
56 100
69 28.8 23.4 35.2
84 77.5 69.4 104.2

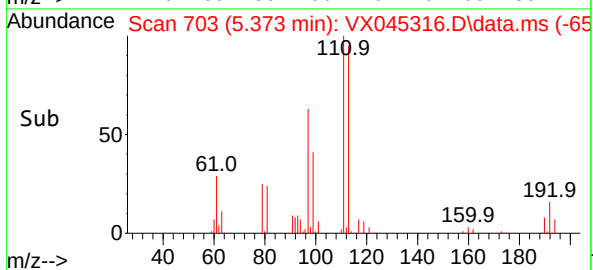
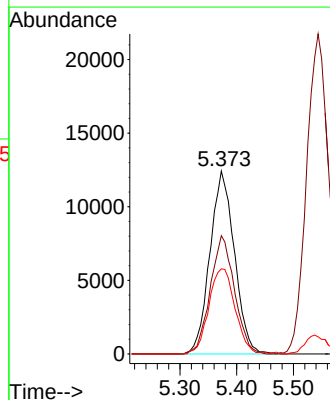
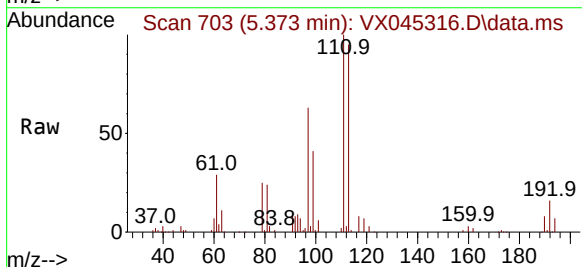
Manual Integrations
APPROVED

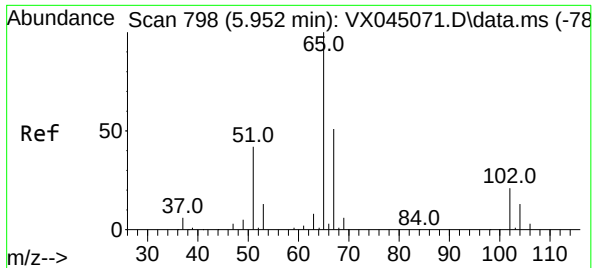
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#32
1,1,1-Trichloroethane
Concen: 19.794 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

Tgt Ion: 97 Resp: 37299
Ion Ratio Lower Upper
97 100
99 63.9 51.6 77.4
61 49.9 38.4 57.6





#33

1,2-Dichloroethane-d4

Concen: 54.296 ug/l

RT: 5.946 min Scan# 798

Delta R.T. -0.006 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBSD01

Tgt Ion: 65 Resp: 8134

Ion Ratio Lower Upper

65 100

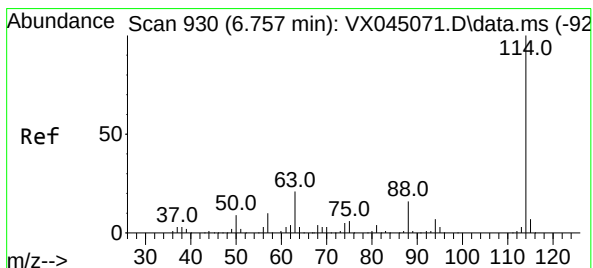
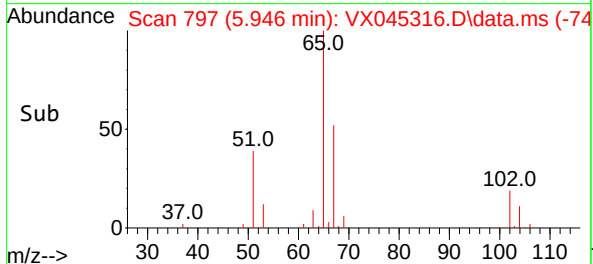
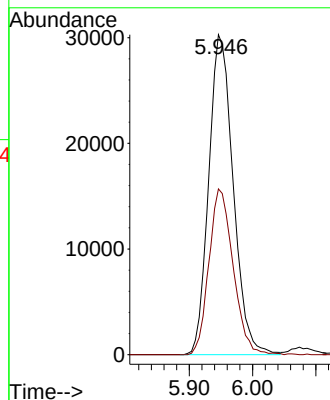
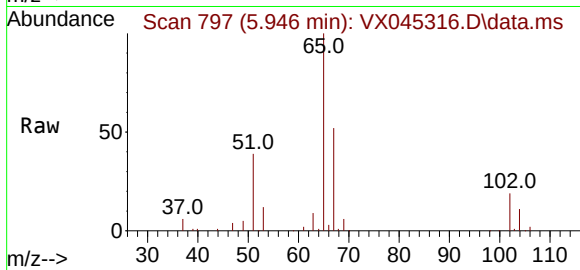
67 51.3 0.0 106.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

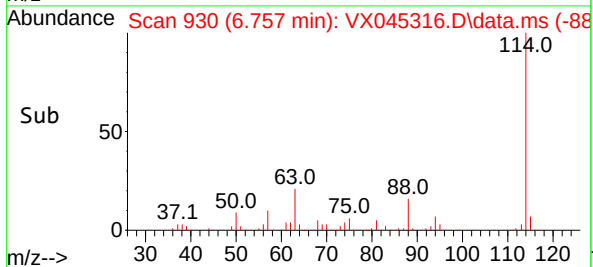
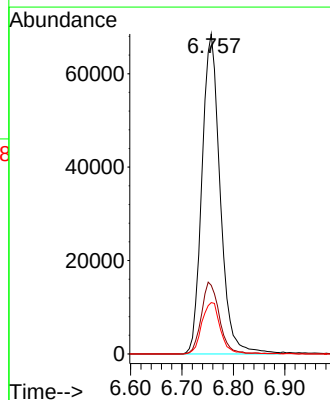
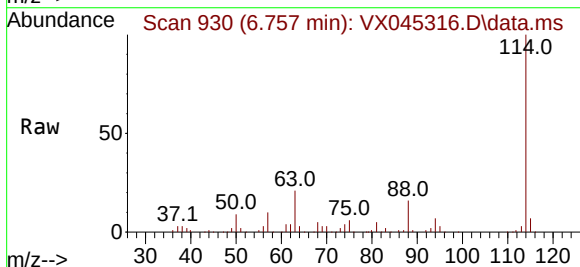
Tgt Ion:114 Resp: 168890

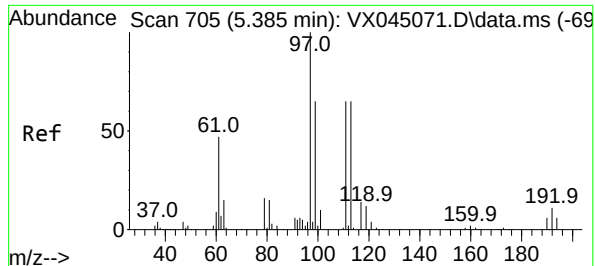
Ion Ratio Lower Upper

114 100

63 21.5 0.0 41.8

88 16.1 0.0 32.8





#35

Dibromofluoromethane

Concen: 52.466 ug/l

RT: 5.379 min Scan# 705

Delta R.T. -0.006 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBSD01

Tgt Ion:113 Resp: 5925

Ion Ratio Lower Upper

113 100

111 102.9 81.8 122.6

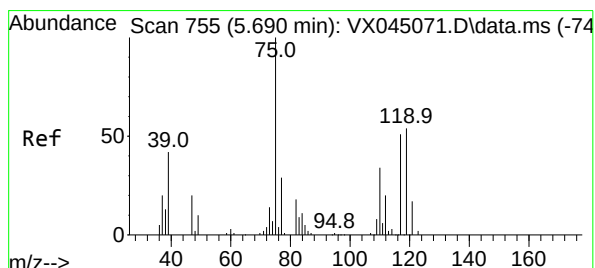
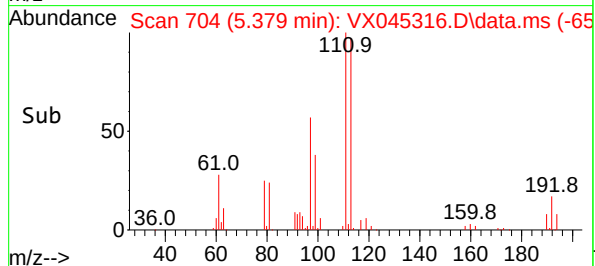
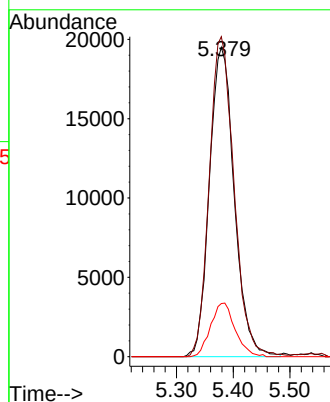
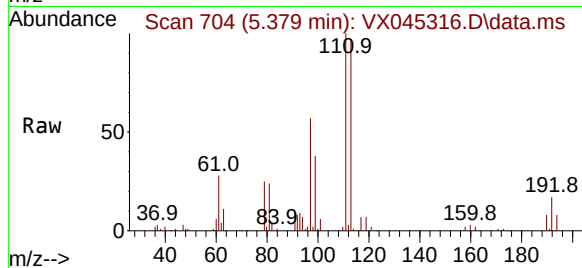
192 17.1 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#36

1,1-Dichloropropene

Concen: 18.907 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

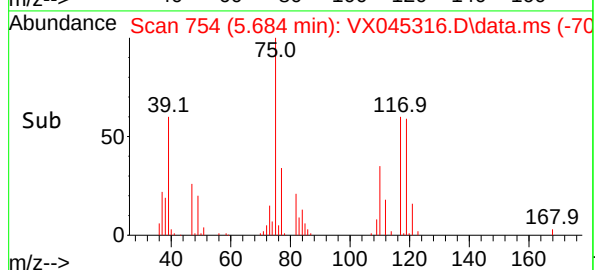
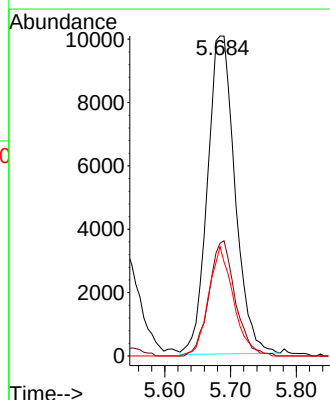
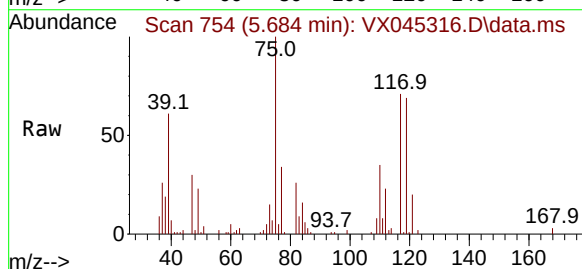
Tgt Ion: 75 Resp: 29283

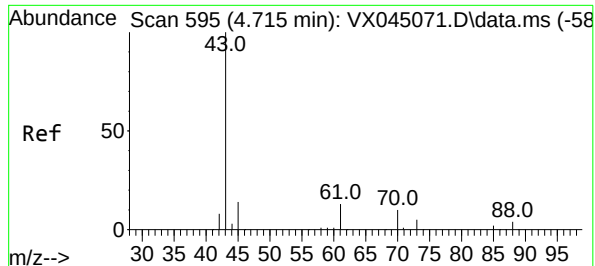
Ion Ratio Lower Upper

75 100

110 34.6 16.9 50.6

77 31.1 24.5 36.7





#37

Ethyl Acetate

Concen: 20.286 ug/l

RT: 4.715 min Scan# 595

Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBSD01

Tgt Ion: 43 Resp: 4048

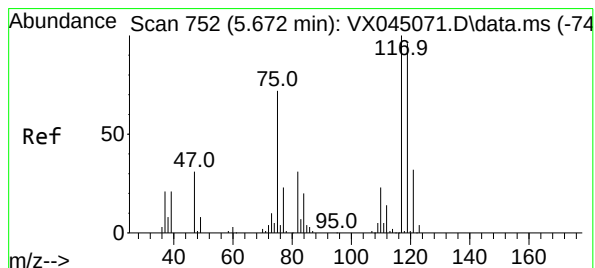
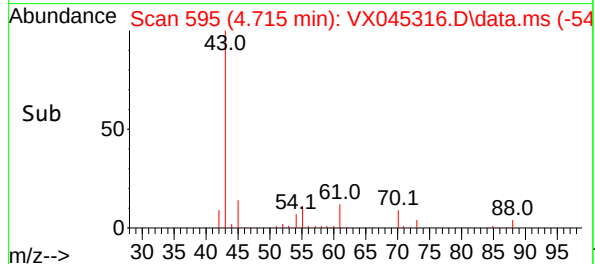
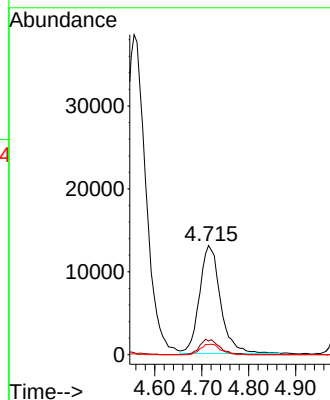
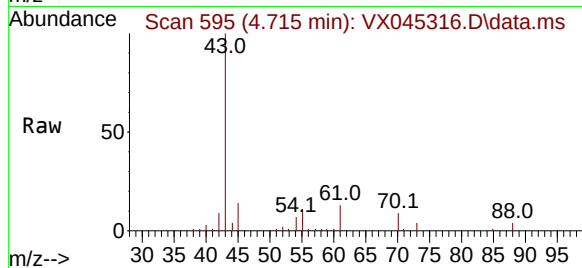
Ion	Ratio	Lower	Upper
43	100		
61	13.5	10.8	16.2
70	9.1	7.7	11.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#38

Carbon Tetrachloride

Concen: 19.744 ug/l

RT: 5.666 min Scan# 751

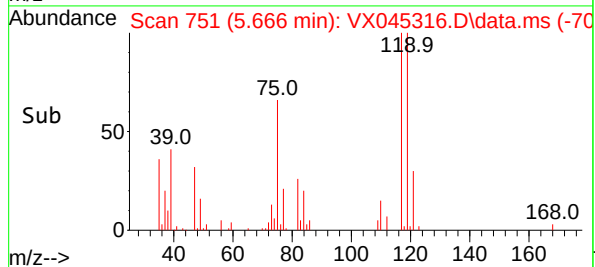
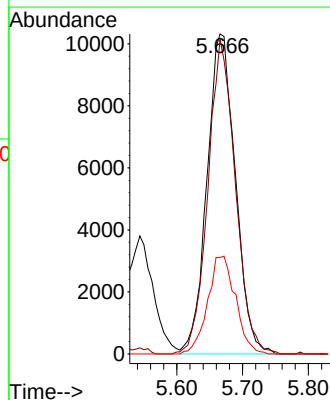
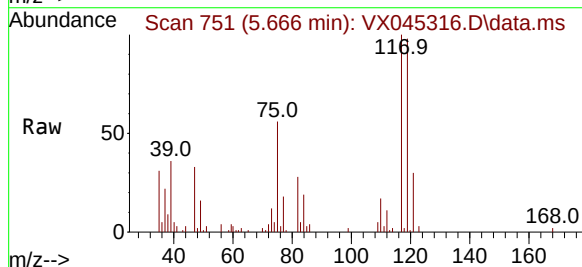
Delta R.T. -0.006 min

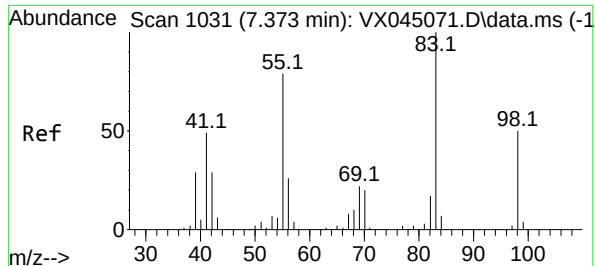
Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Tgt Ion: 117 Resp: 31045

Ion	Ratio	Lower	Upper
117	100		
119	98.2	76.7	115.1
121	30.1	25.5	38.3





#39

Methylcyclohexane

Concen: 20.541 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBSD01

Tgt Ion: 83 Resp: 38119

Ion Ratio Lower Upper

83 100

55 81.3 63.0 94.4

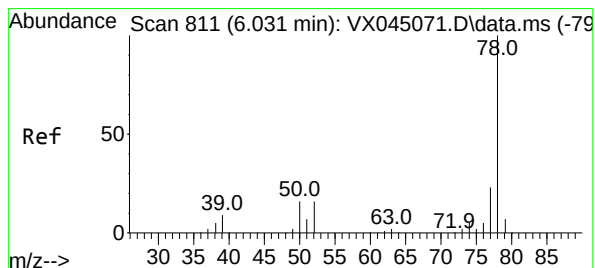
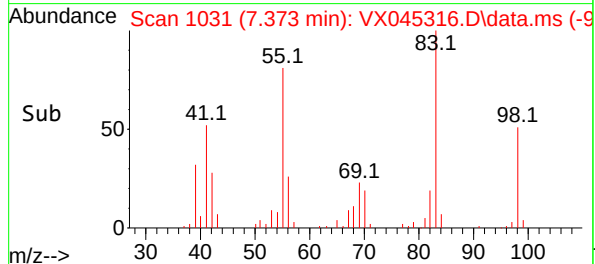
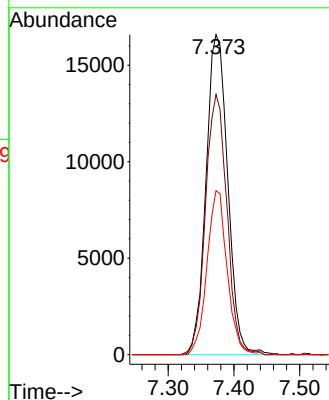
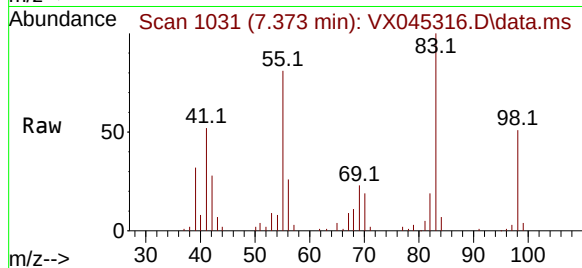
98 51.2 39.7 59.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#40

Benzene

Concen: 19.666 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX045316.D

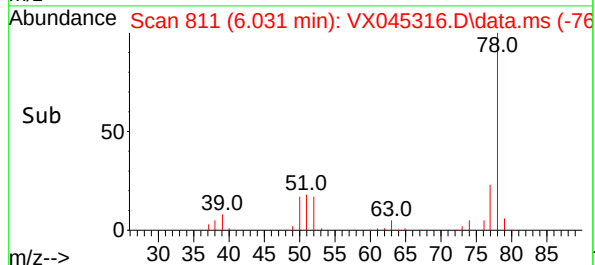
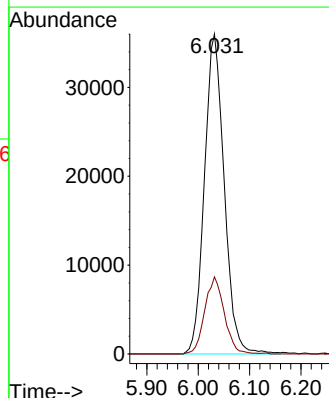
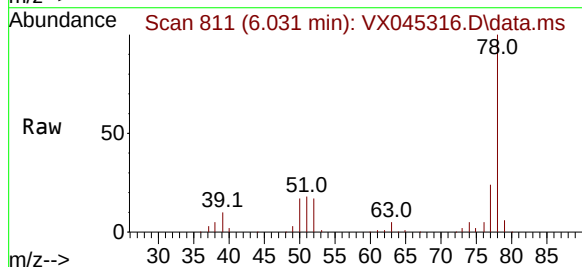
Acq: 18 Mar 2025 11:43

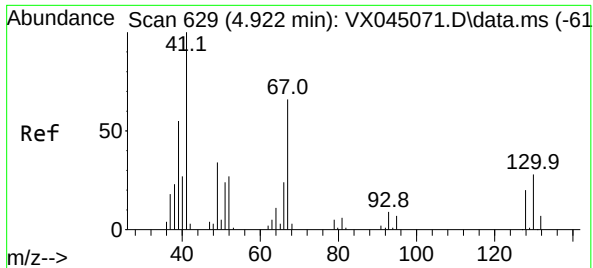
Tgt Ion: 78 Resp: 96177

Ion Ratio Lower Upper

78 100

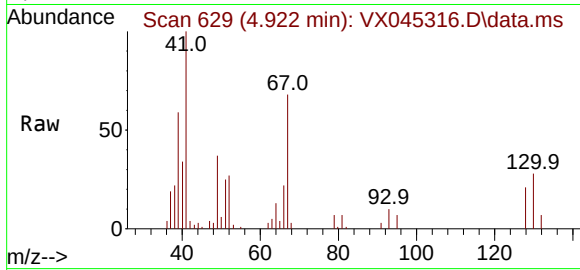
77 24.1 18.8 28.2





#41
Methacrylonitrile
Concen: 20.940 ug/l
RT: 4.922 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

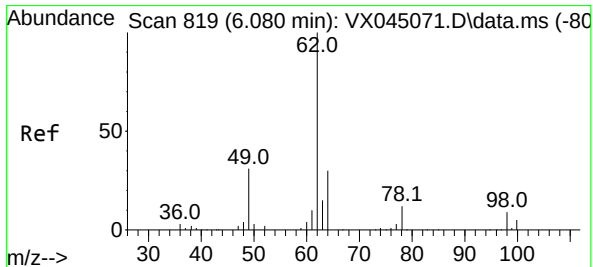
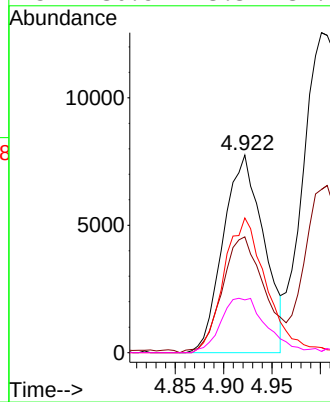
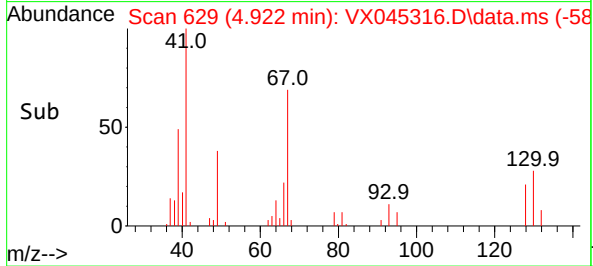
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01



Tgt Ion: 41 Resp: 22590
Ion Ratio Lower Upper
41 100
39 61.8 44.6 67.0
67 71.8 53.9 80.9
52 30.8 23.3 34.9

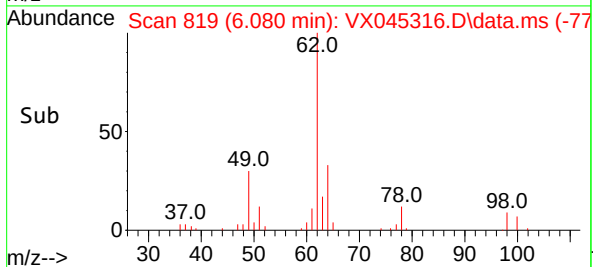
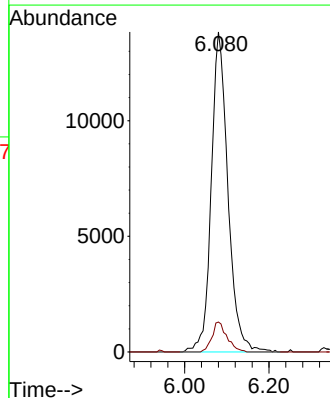
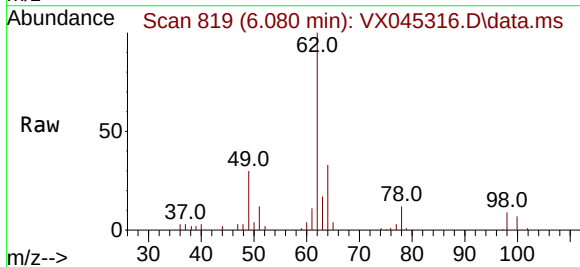
Manual Integrations
APPROVED

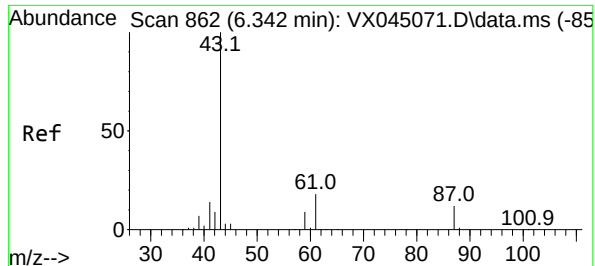
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#42
1,2-Dichloroethane
Concen: 21.592 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

Tgt Ion: 62 Resp: 38026
Ion Ratio Lower Upper
62 100
98 8.4 0.0 18.2





#43

Isopropyl Acetate

Concen: 21.176 ug/l

RT: 6.336 min Scan# 80

Delta R.T. -0.006 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBSD01

Tgt Ion: 43 Resp: 62490

Ion Ratio Lower Upper

43 100

61 18.2 14.9 22.3

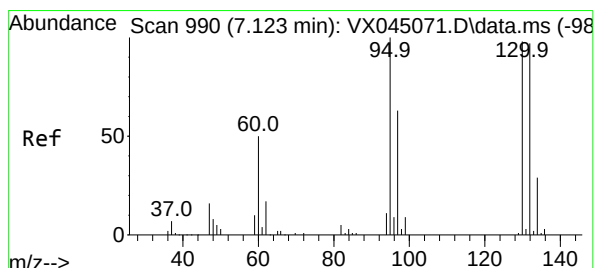
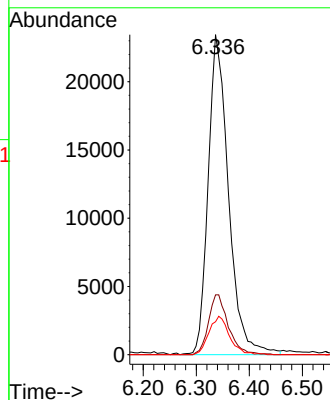
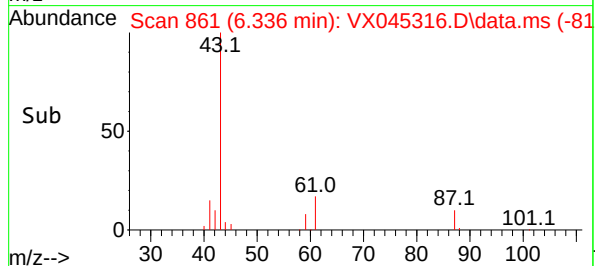
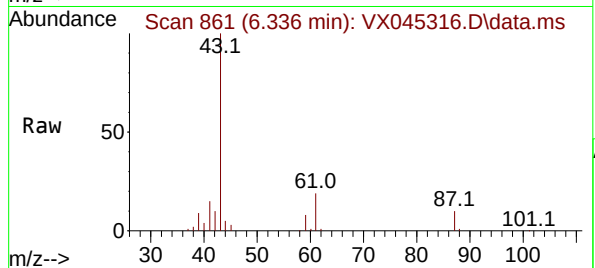
87 12.1 9.4 14.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#44

Trichloroethene

Concen: 19.003 ug/l

RT: 7.123 min Scan# 990

Delta R.T. -0.000 min

Lab File: VX045316.D

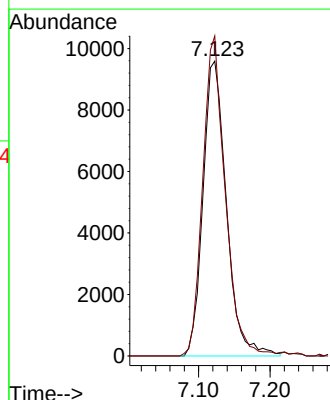
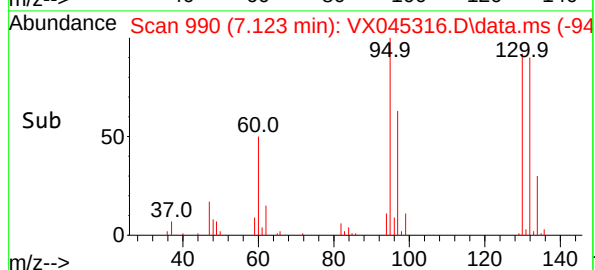
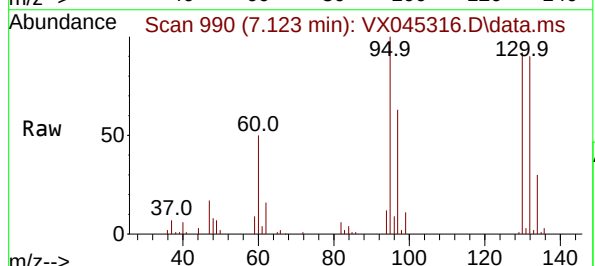
Acq: 18 Mar 2025 11:43

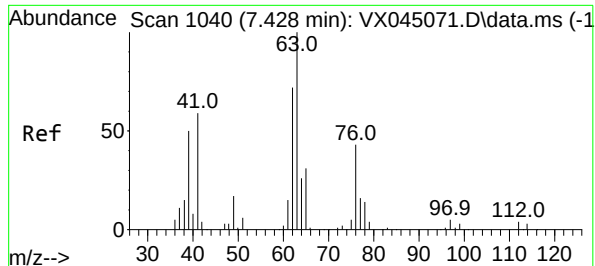
Tgt Ion:130 Resp: 21822

Ion Ratio Lower Upper

130 100

95 108.5 0.0 205.0





#45

1,2-Dichloropropane

Concen: 20.531 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBSD01

Tgt Ion: 63 Resp: 25810

Ion Ratio Lower Upper

63 100

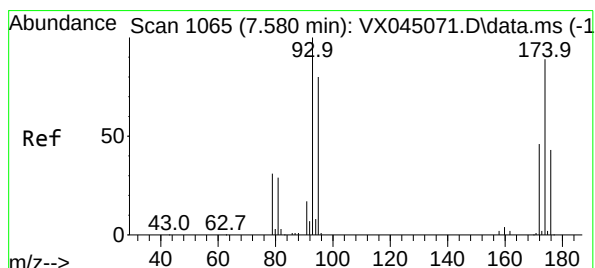
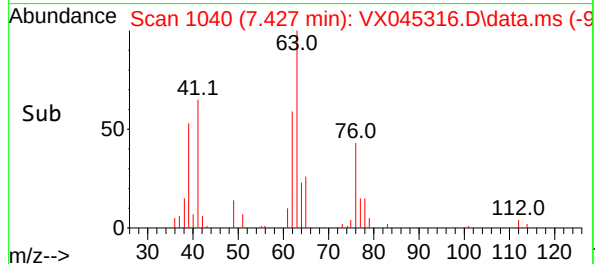
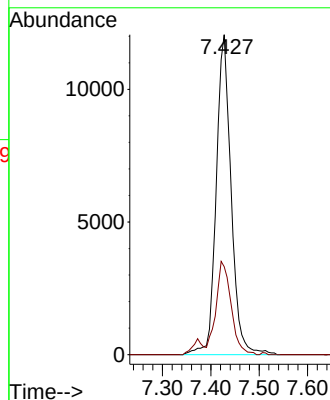
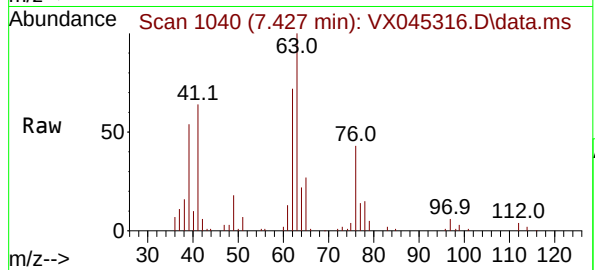
65 27.5 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#46

Dibromomethane

Concen: 21.108 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. -0.006 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

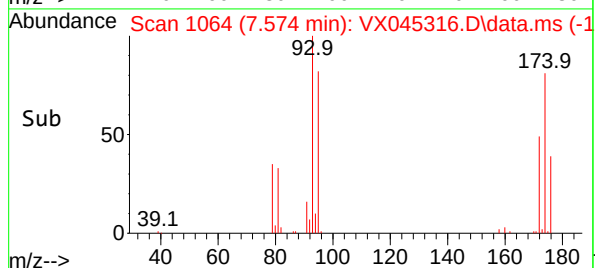
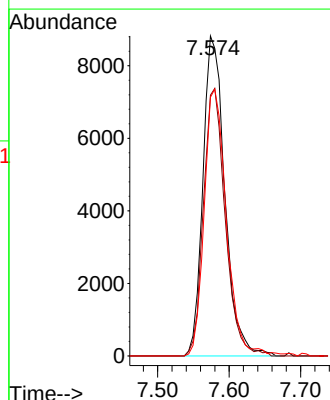
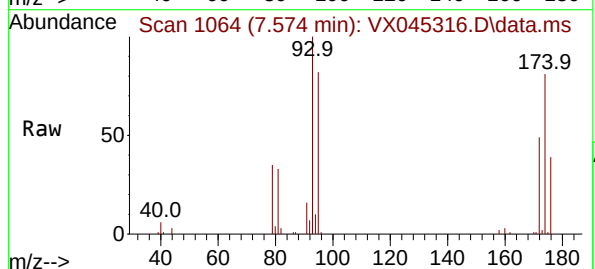
Tgt Ion: 93 Resp: 18760

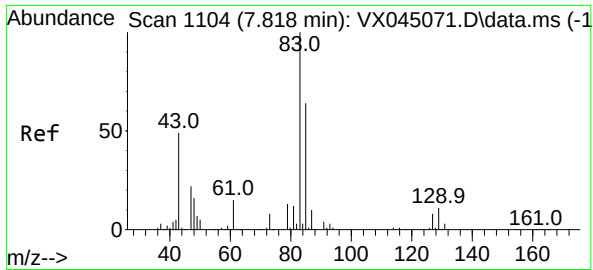
Ion Ratio Lower Upper

93 100

95 83.3 65.8 98.8

174 85.1 72.2 108.2





#47

Bromodichloromethane

Concen: 20.434 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBSD01

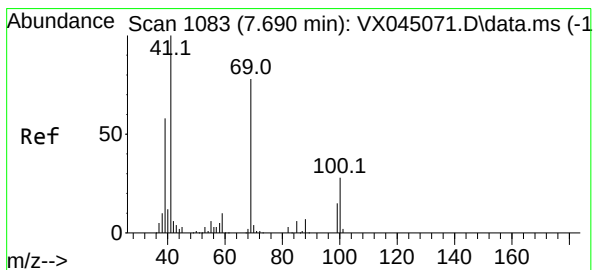
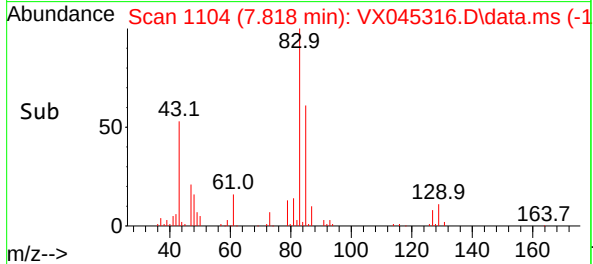
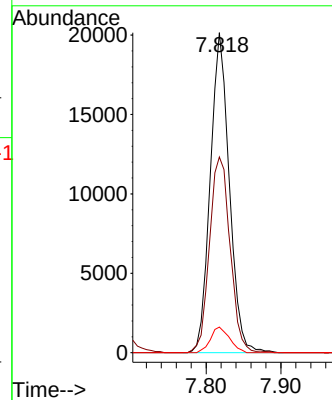
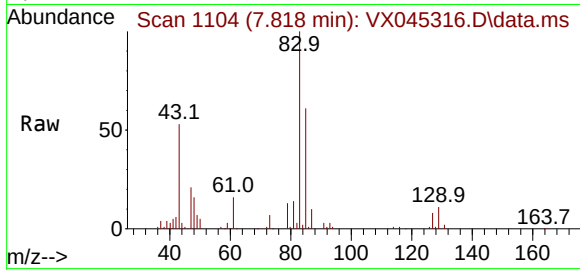
Tgt Ion: 83	Resp: 3562
Ion Ratio	Lower Upper
83 100	
85 61.2	51.1 76.7
127 8.0	6.4 9.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#48

Methyl methacrylate

Concen: 21.512 ug/l

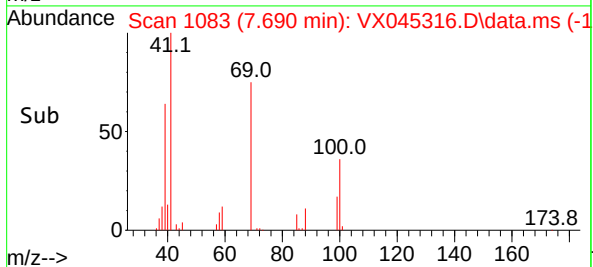
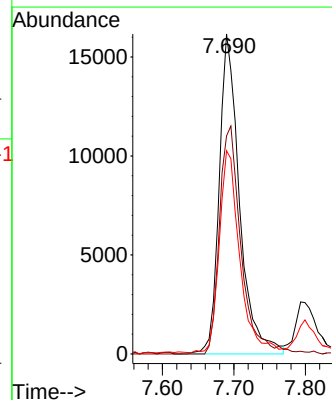
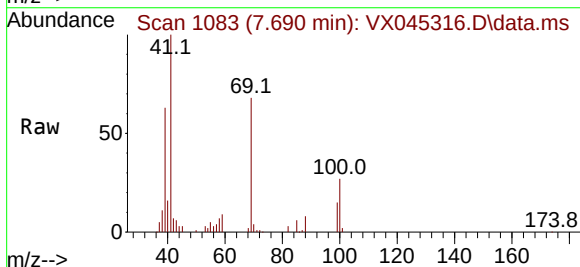
RT: 7.690 min Scan# 1083

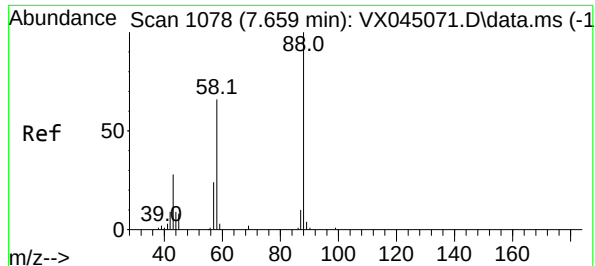
Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Tgt Ion: 41	Resp: 31848
Ion Ratio	Lower Upper
41 100	
69 76.1	63.0 94.6
39 63.1	47.5 71.3





#49

1,4-Dioxane

Concen: 370.034 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBSD01

Tgt Ion: 88 Resp: 11550

Ion Ratio Lower Upper

88 100

43 41.8 28.7 43.1

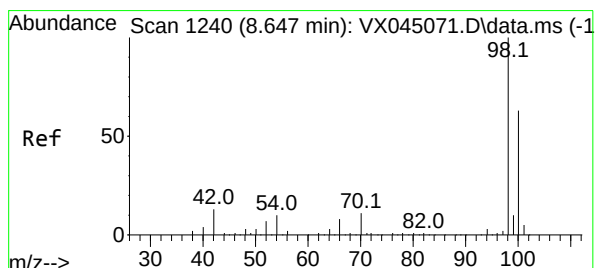
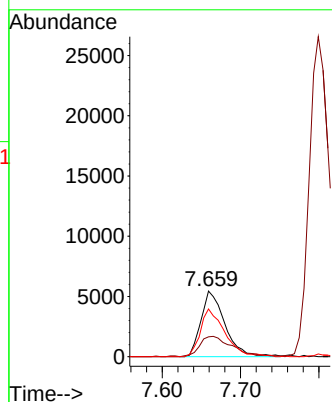
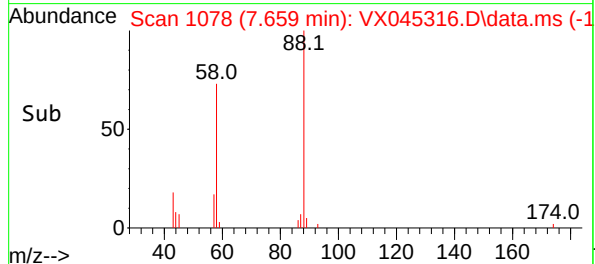
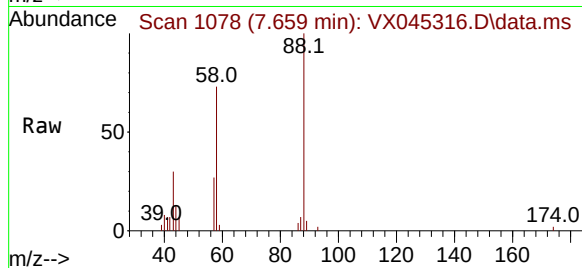
58 74.3 55.8 83.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#50

Toluene-d8

Concen: 51.033 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX045316.D

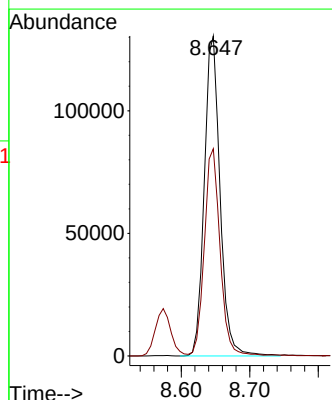
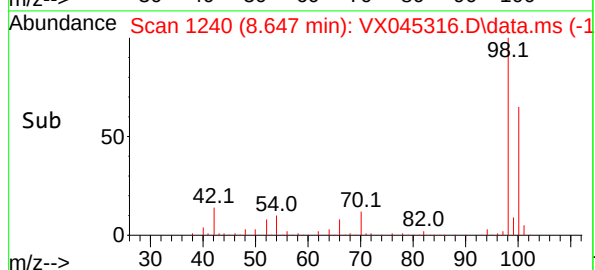
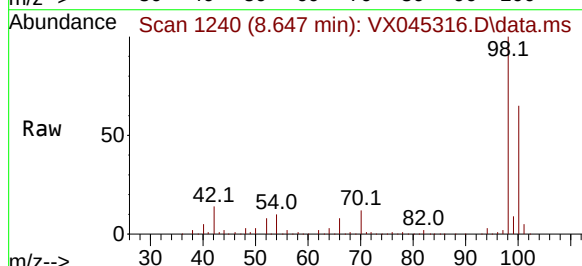
Acq: 18 Mar 2025 11:43

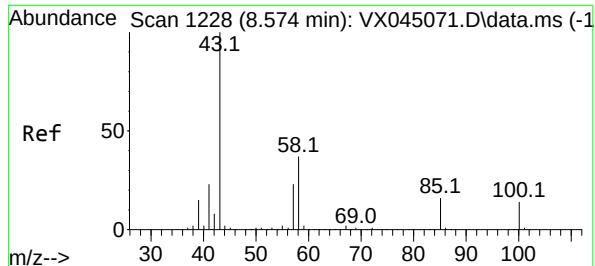
Tgt Ion: 98 Resp: 208939

Ion Ratio Lower Upper

98 100

100 63.9 52.0 78.0





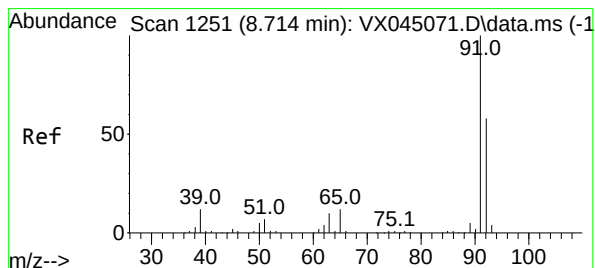
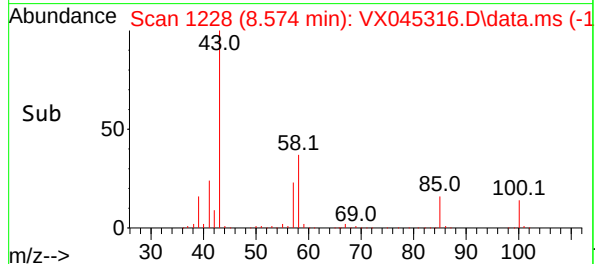
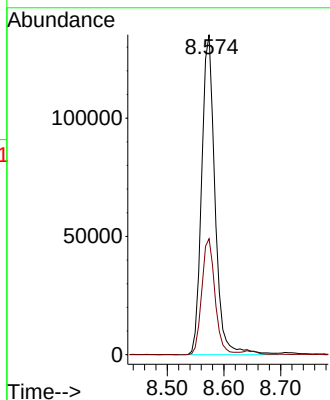
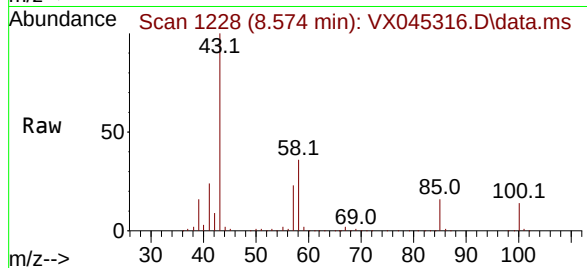
#51
4-Methyl-2-Pentanone
Concen: 112.395 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01

Tgt Ion: 43 Resp: 22270
Ion Ratio Lower Upper
43 100
58 36.0 29.2 43.8

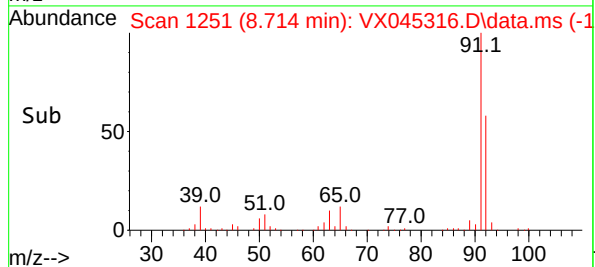
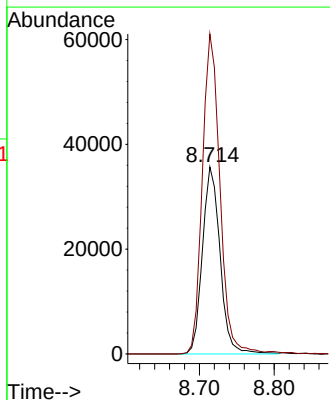
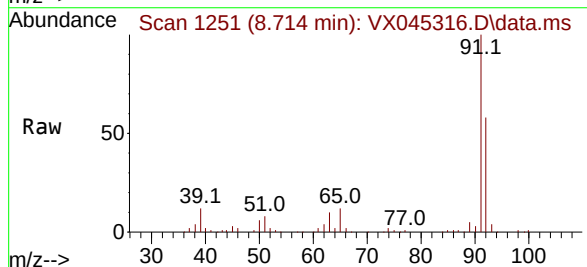
Manual Integrations
APPROVED

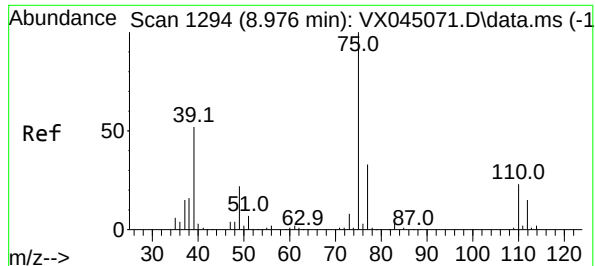
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#52
Toluene
Concen: 20.414 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

Tgt Ion: 92 Resp: 58577
Ion Ratio Lower Upper
92 100
91 170.1 138.9 208.3





#53

t-1,3-Dichloropropene

Concen: 20.460 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBSD01

Tgt Ion: 75 Resp: 29819

Ion Ratio Lower Upper

75 100

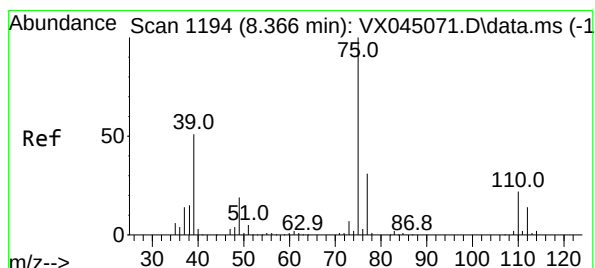
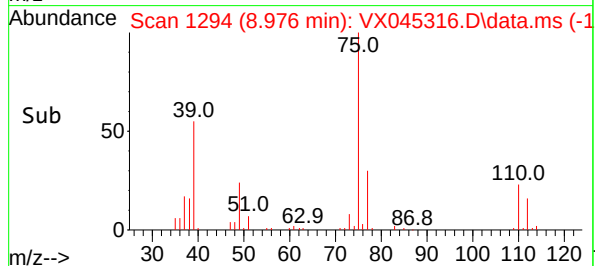
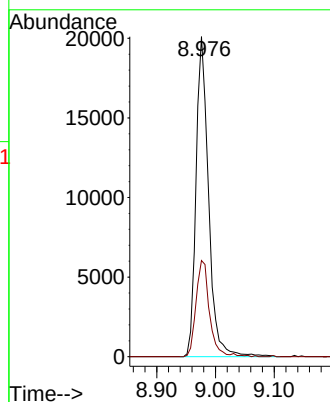
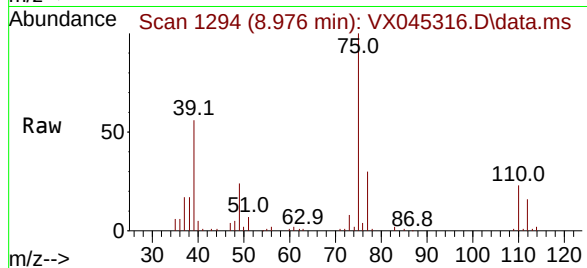
77 30.1 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#54

cis-1,3-Dichloropropene

Concen: 21.582 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

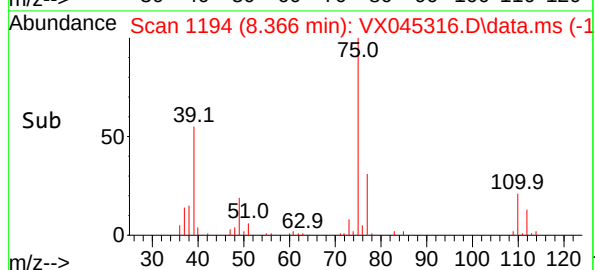
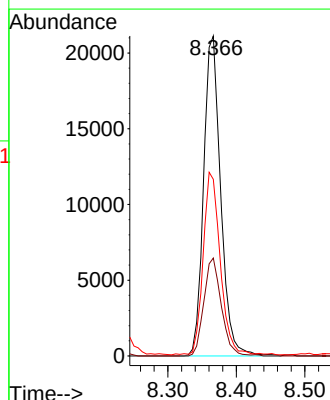
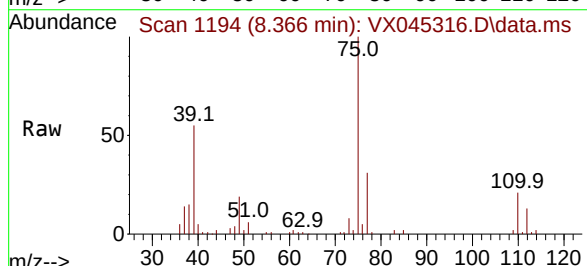
Tgt Ion: 75 Resp: 36677

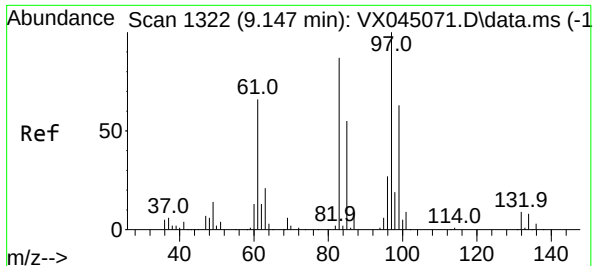
Ion Ratio Lower Upper

75 100

77 30.6 24.7 37.1

39 54.9 40.7 61.1





#55

1,1,2-Trichloroethane

Concen: 21.268 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBSD01

Tgt Ion: 97 Resp: 2512

Ion Ratio Lower Upper

97 100

83 85.6 69.4 104.2

85 53.2 44.1 66.1

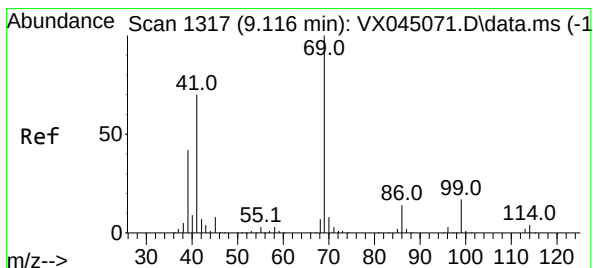
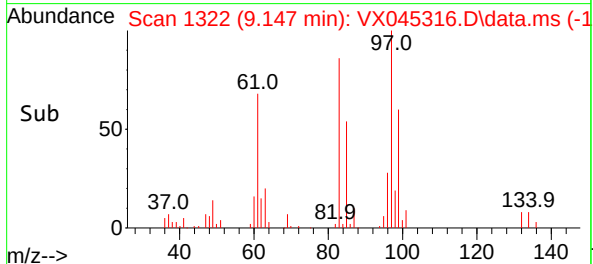
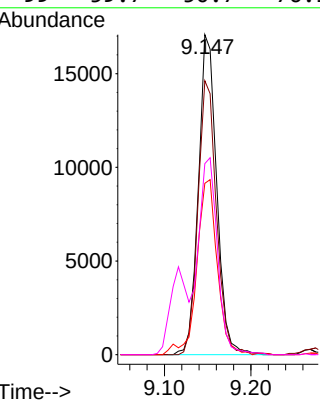
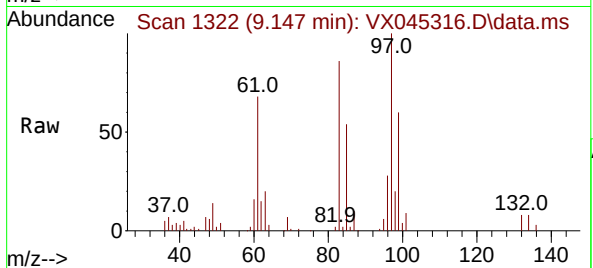
99 59.7 50.7 76.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#56

Ethyl methacrylate

Concen: 21.871 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

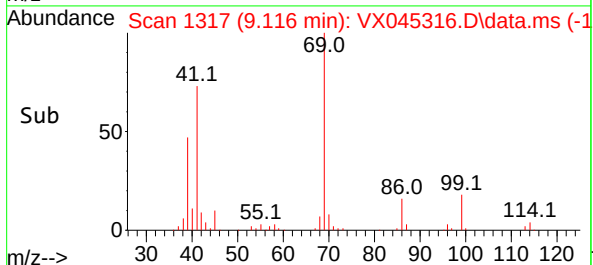
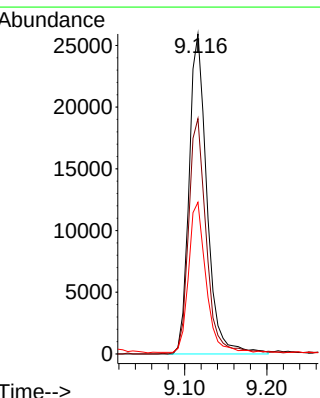
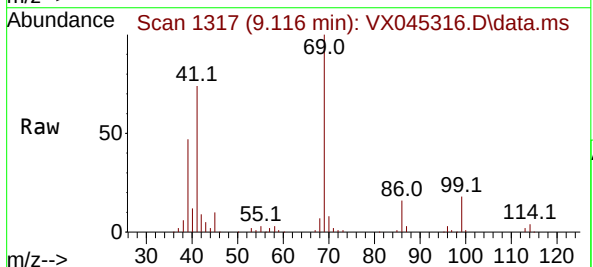
Tgt Ion: 69 Resp: 39272

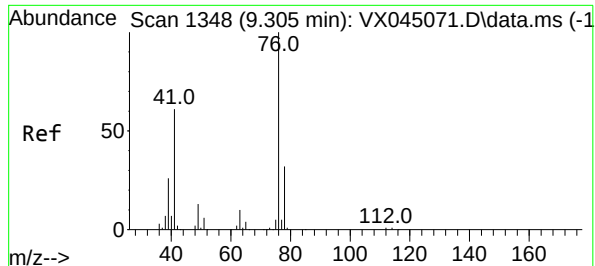
Ion Ratio Lower Upper

69 100

41 73.5 57.0 85.4

39 46.4 34.2 51.4





#57

1,3-Dichloropropane

Concen: 21.054 ug/l

RT: 9.305 min Scan# 11348

Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBSD01

Tgt Ion: 76 Resp: 43040

Ion Ratio Lower Upper

76 100

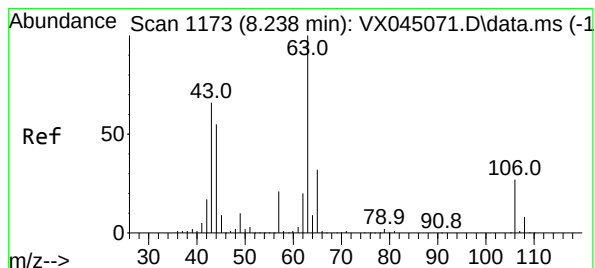
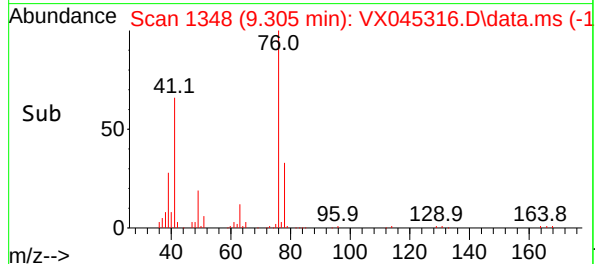
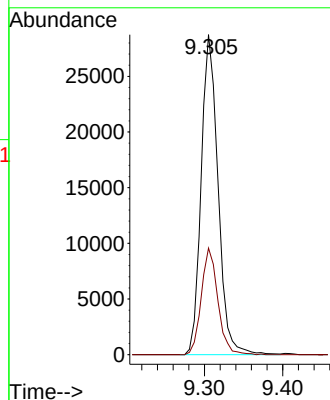
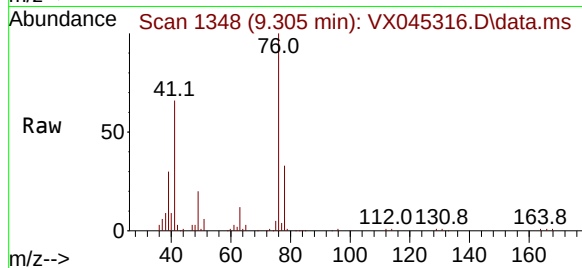
78 32.7 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#58

2-Chloroethyl Vinyl ether

Concen: 98.298 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX045316.D

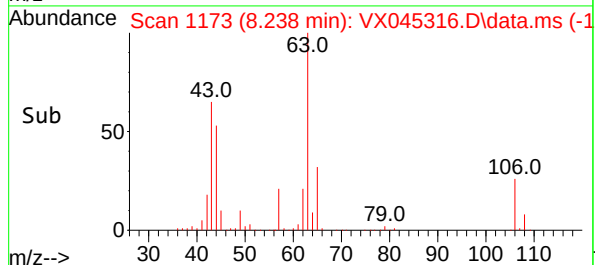
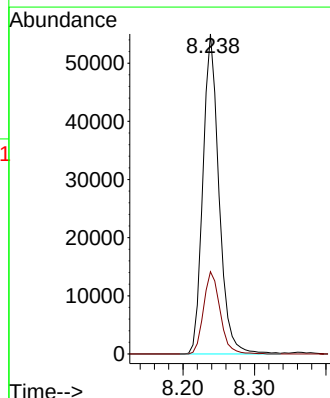
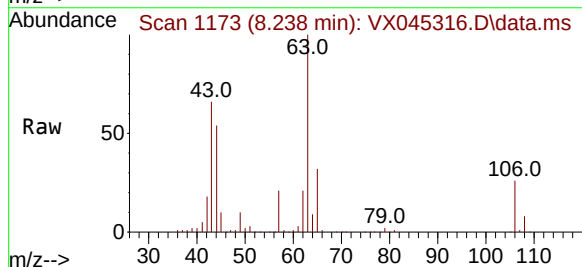
Acq: 18 Mar 2025 11:43

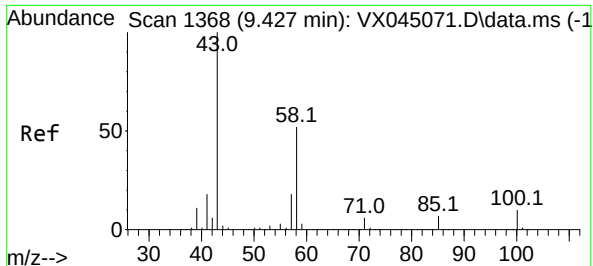
Tgt Ion: 63 Resp: 86100

Ion Ratio Lower Upper

63 100

106 26.4 21.5 32.3





#59

2-Hexanone

Concen: 111.230 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBSD01

Tgt Ion: 43 Resp: 15968

Ion Ratio Lower Upper

43 100

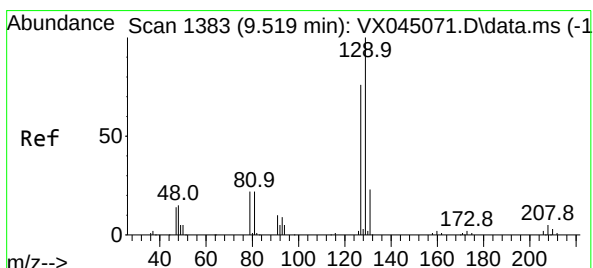
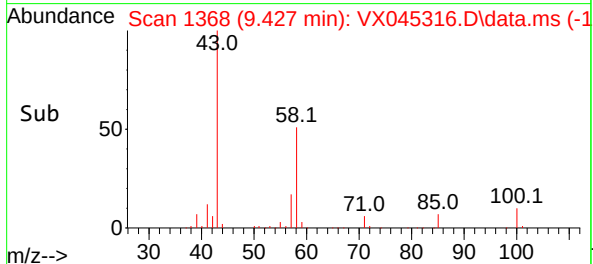
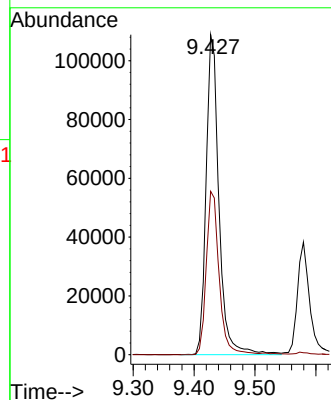
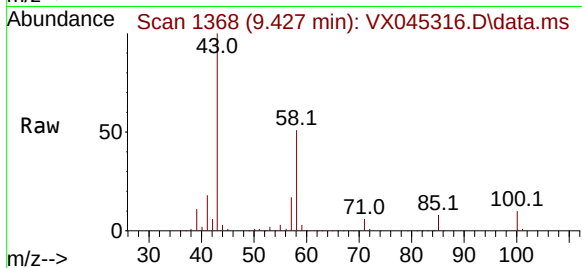
58 51.0 25.9 77.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#60

Dibromochloromethane

Concen: 21.445 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX045316.D

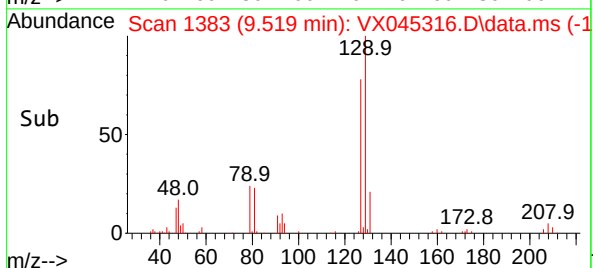
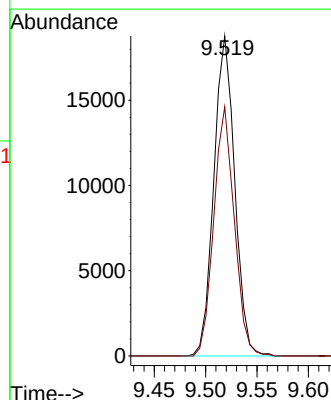
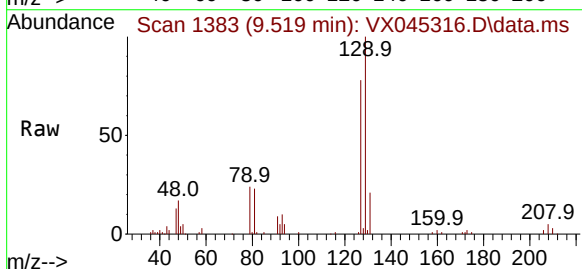
Acq: 18 Mar 2025 11:43

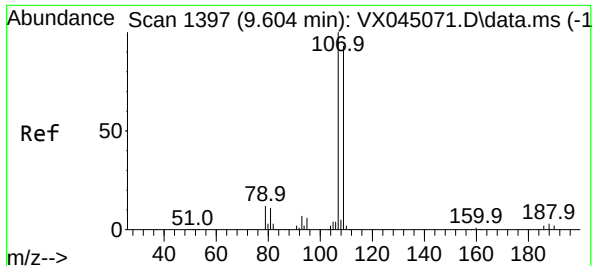
Tgt Ion:129 Resp: 26487

Ion Ratio Lower Upper

129 100

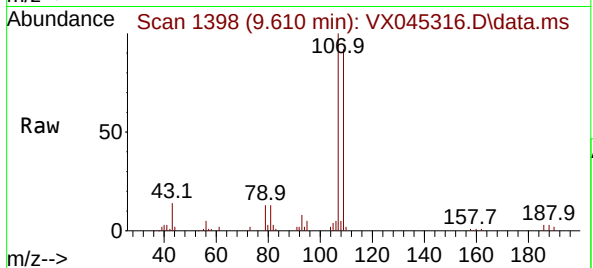
127 76.7 38.5 115.5





#61
1,2-Dibromoethane
Concen: 21.330 ug/l
RT: 9.610 min Scan# 1397
Delta R.T. 0.006 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

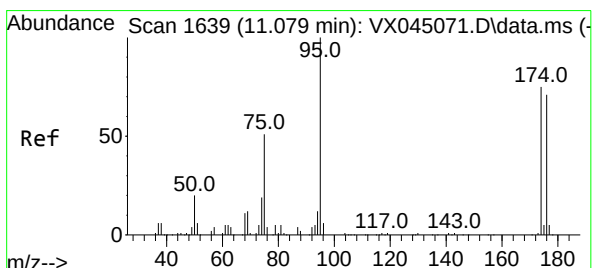
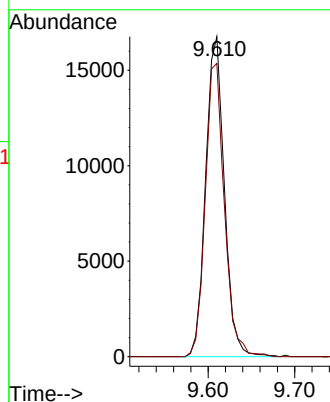
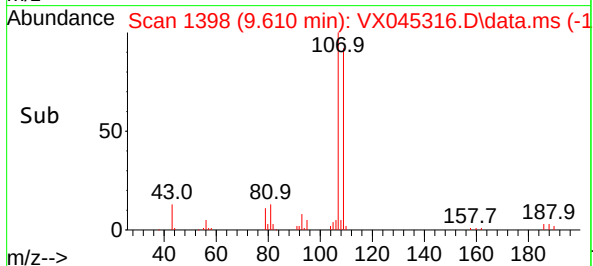
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01



Tgt Ion:107 Resp: 2515
Ion Ratio Lower Upper
107 100
109 93.5 76.1 114.1

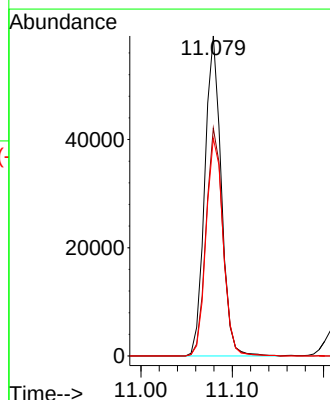
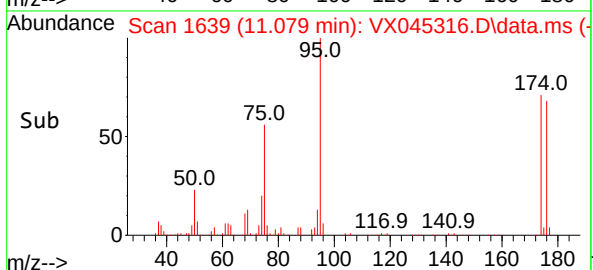
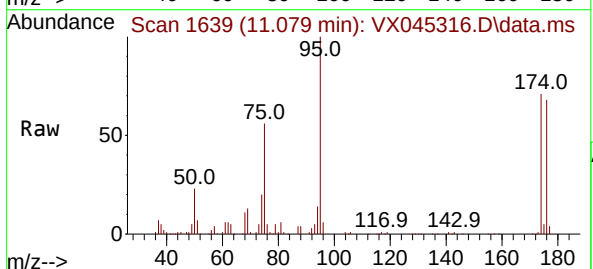
Manual Integrations
APPROVED

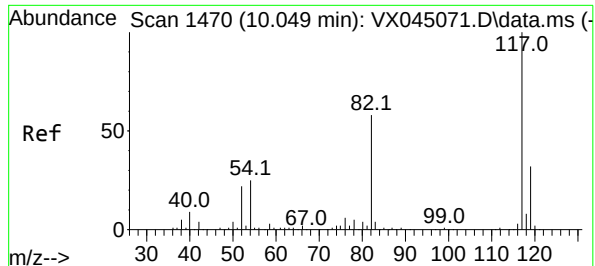
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#62
4-Bromofluorobenzene
Concen: 54.397 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

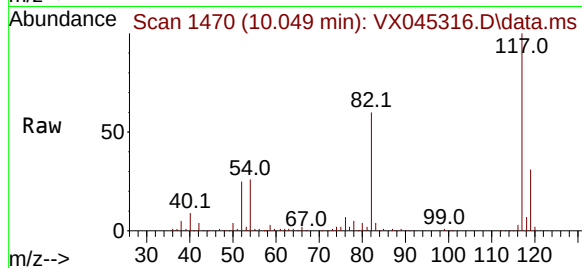
Tgt Ion: 95 Resp: 73800
Ion Ratio Lower Upper
95 100
174 72.7 0.0 148.2
176 70.5 0.0 141.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

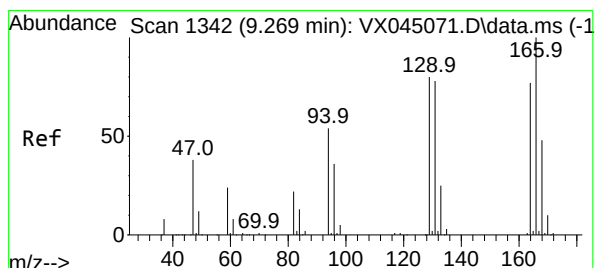
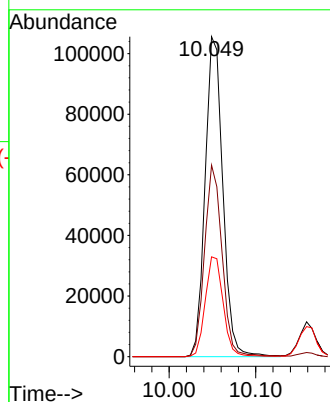
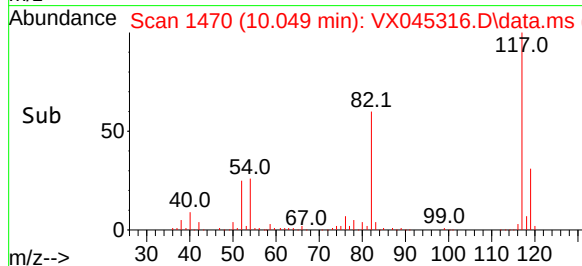
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01



Tgt Ion:117 Resp: 15018
Ion Ratio Lower Upper
117 100
82 59.8 46.3 69.5
119 31.2 25.7 38.5

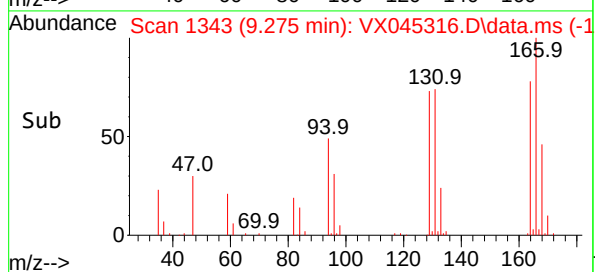
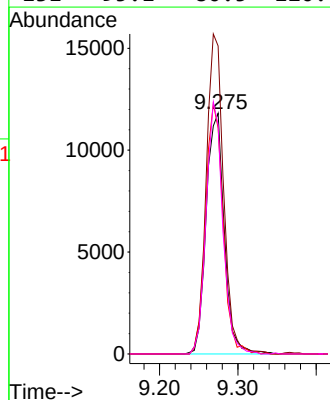
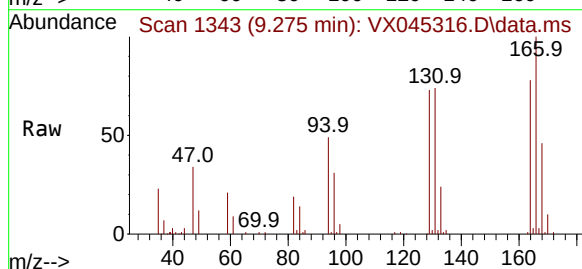
Manual Integrations
APPROVED

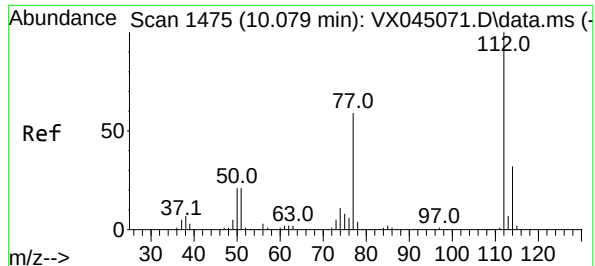
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#64
Tetrachloroethene
Concen: 19.569 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

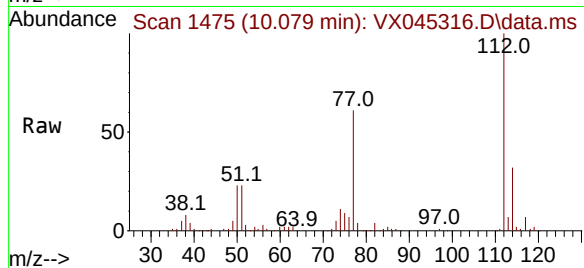
Tgt Ion:164 Resp: 18822
Ion Ratio Lower Upper
164 100
166 128.0 103.6 155.4
129 93.9 82.7 124.1
131 95.1 80.5 120.7





#65
Chlorobenzene
Concen: 20.023 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

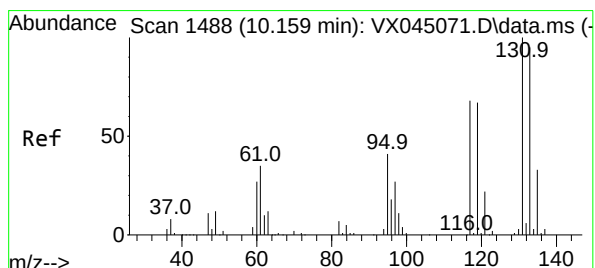
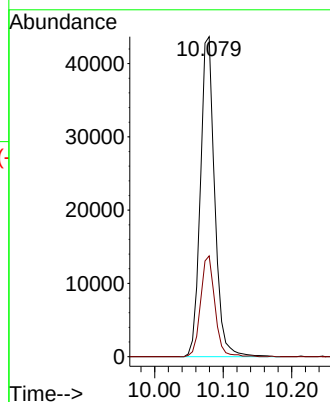
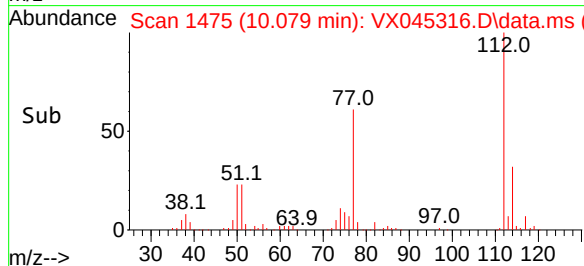
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01



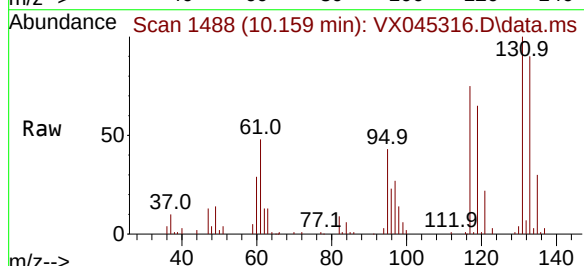
Tgt Ion:112 Resp: 63629
Ion Ratio Lower Upper
112 100
114 31.5 26.0 39.0

Manual Integrations
APPROVED

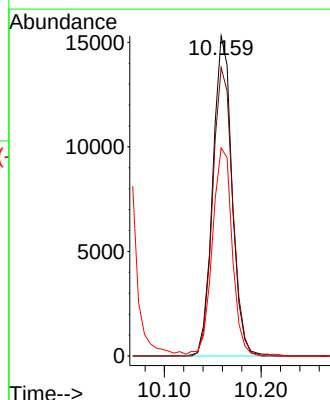
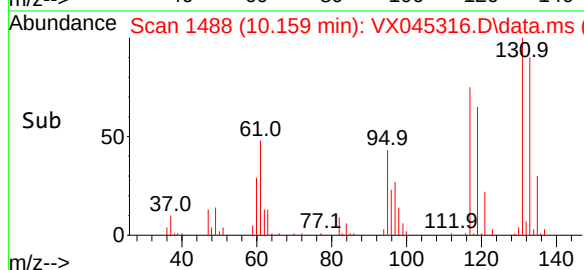
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

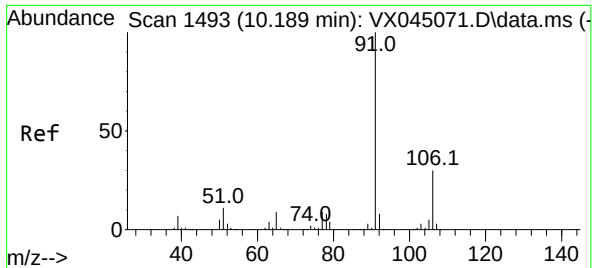


#66
1,1,1,2-Tetrachloroethane
Concen: 19.945 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43



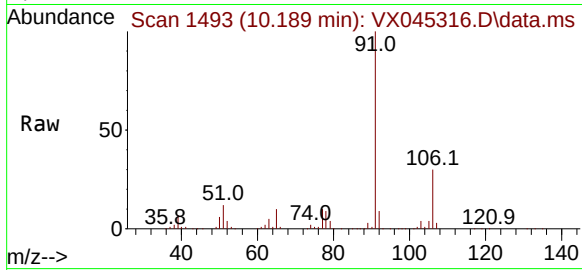
Tgt Ion:131 Resp: 21107
Ion Ratio Lower Upper
131 100
133 93.3 48.6 145.9
119 66.9 33.9 101.7





#67
Ethyl Benzene
Concen: 20.231 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

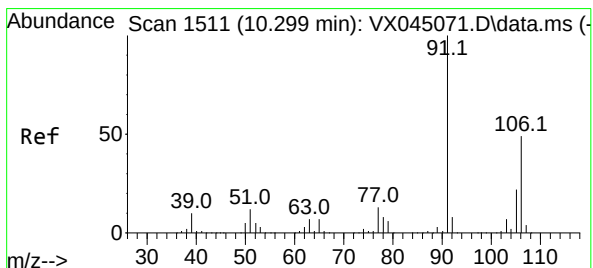
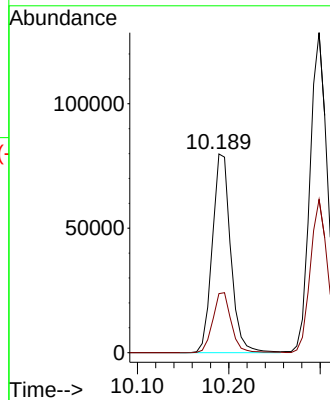
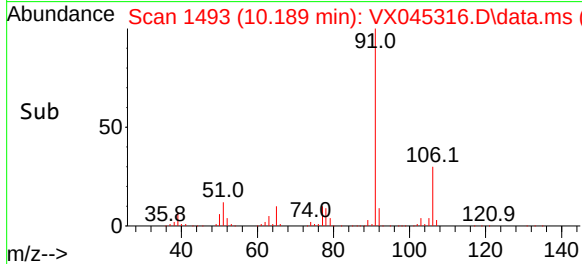
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01



Tgt Ion: 91 Resp: 11202
Ion Ratio Lower Upper
91 100
106 29.7 23.9 35.9

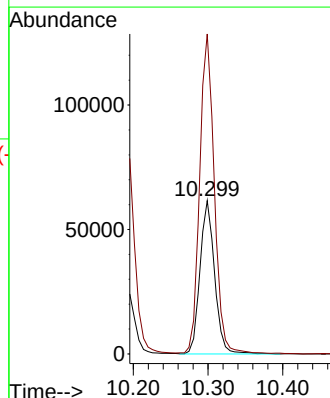
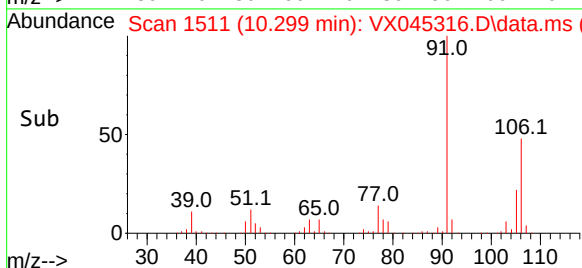
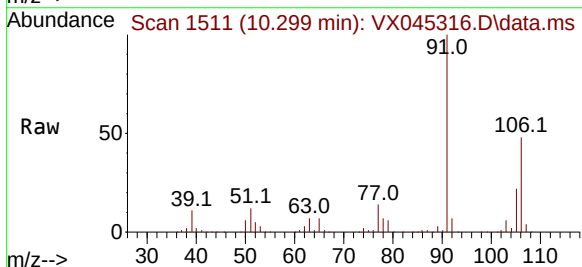
Manual Integrations
APPROVED

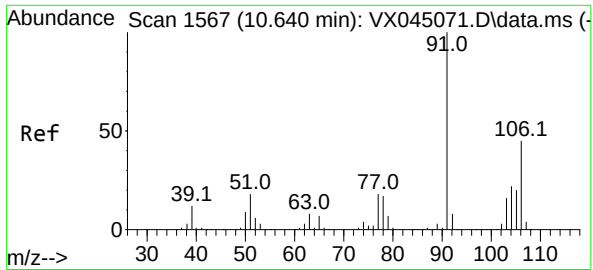
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#68
m/p-Xylenes
Concen: 41.277 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

Tgt Ion:106 Resp: 83669
Ion Ratio Lower Upper
106 100
91 208.0 165.4 248.0





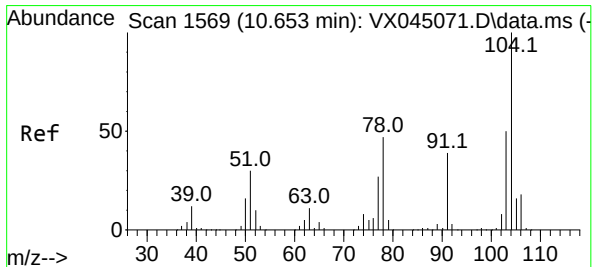
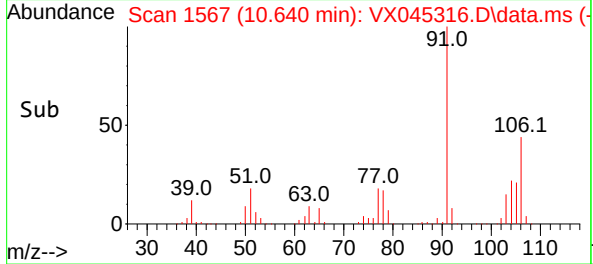
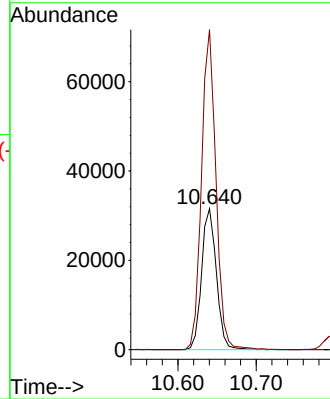
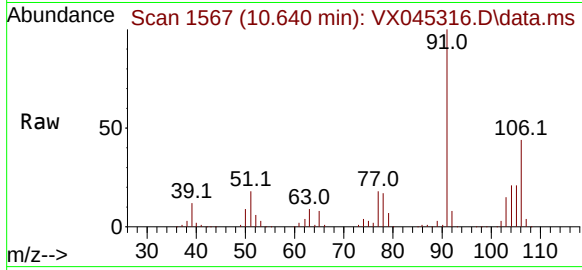
#69
o-Xylene
Concen: 20.271 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01

Tgt Ion:106 Resp: 4144
Ion Ratio Lower Upper
106 100
91 221.5 109.9 329.6

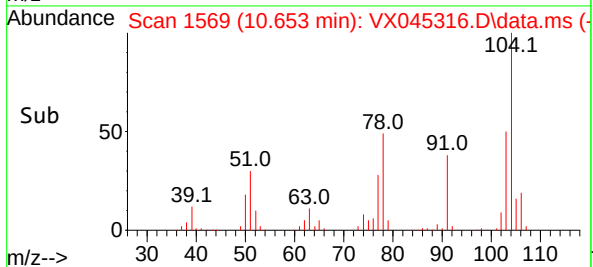
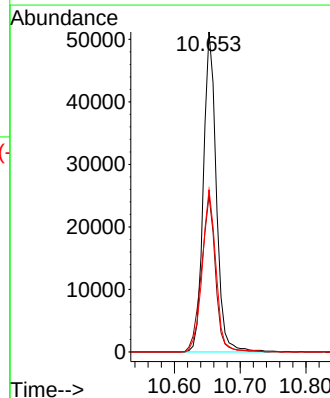
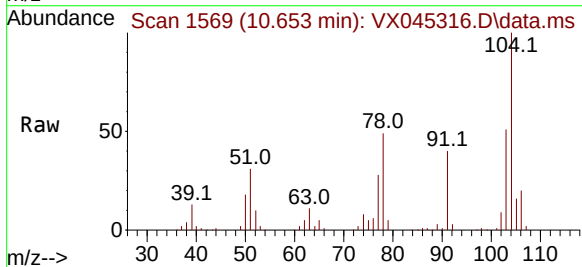
Manual Integrations
APPROVED

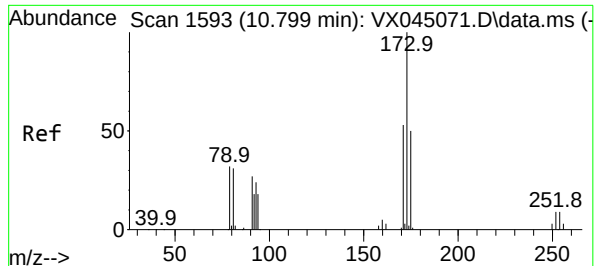
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#70
Styrene
Concen: 21.213 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

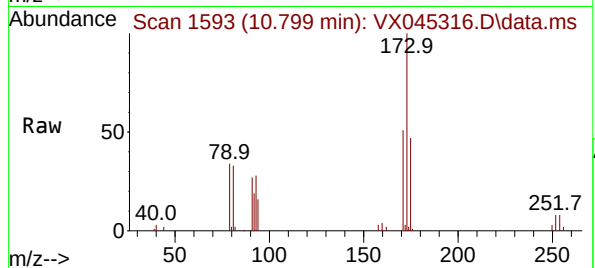
Tgt Ion:104 Resp: 70171
Ion Ratio Lower Upper
104 100
78 53.1 42.2 63.4
103 53.9 43.8 65.8





#71
Bromoform
Concen: 20.363 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

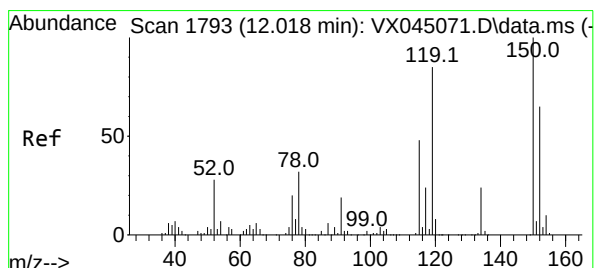
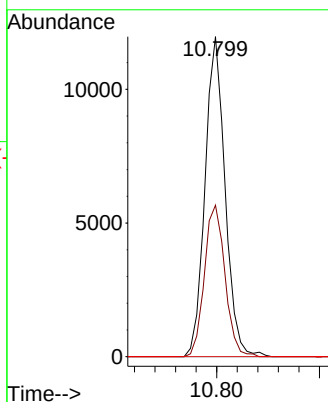
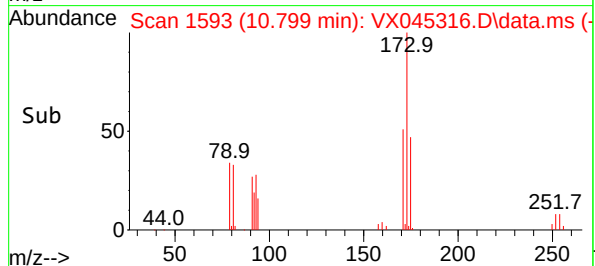
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01



Tgt Ion:173 Resp: 16250
Ion Ratio Lower Upper
173 100
175 48.6 24.6 73.6
254 0.0 0.0 0.0

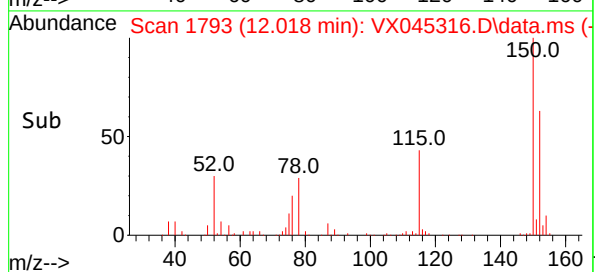
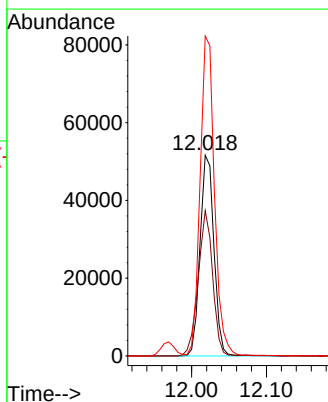
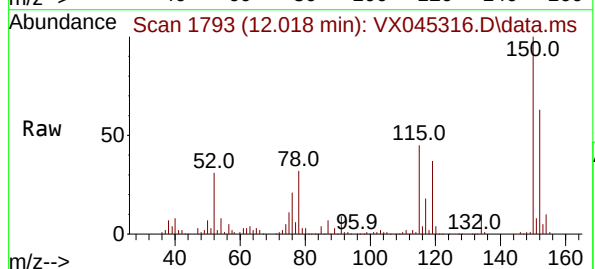
Manual Integrations
APPROVED

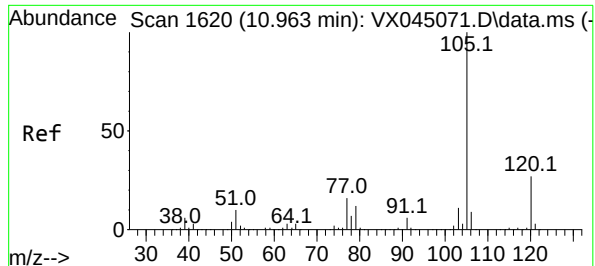
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

Tgt Ion:152 Resp: 66832
Ion Ratio Lower Upper
152 100
115 74.9 44.2 132.6
150 164.5 0.0 349.0





#73

Isopropylbenzene

Concen: 20.748 ug/l

RT: 10.957 min Scan# 1619

Delta R.T. -0.006 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBSD01

Tgt Ion:105 Resp: 108230

Ion Ratio Lower Upper

105 100

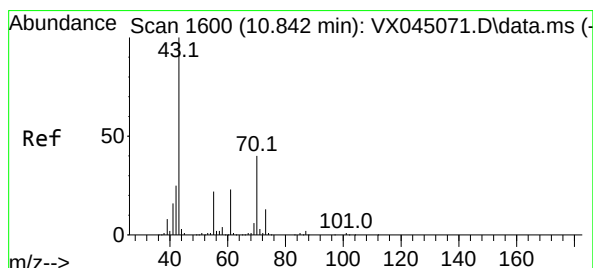
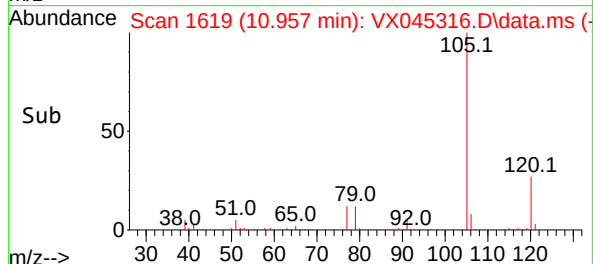
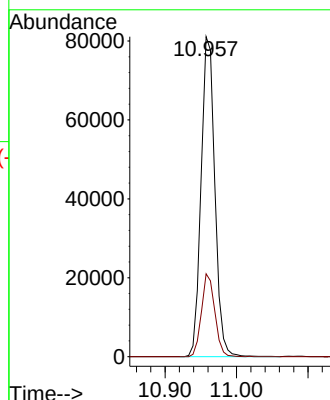
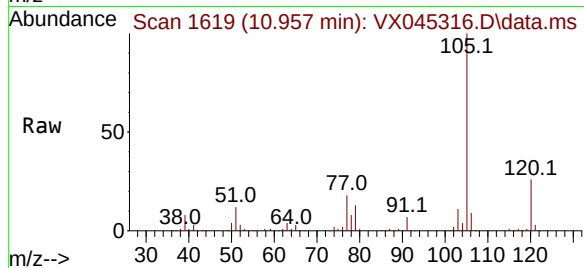
120 25.1 13.2 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#74

N-ethyl acetate

Concen: 20.969 ug/l

RT: 10.842 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Tgt Ion: 43 Resp: 51327

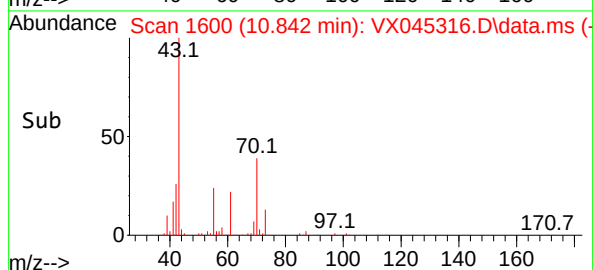
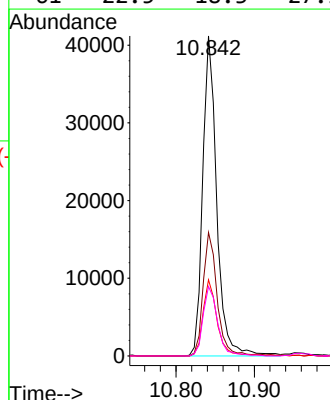
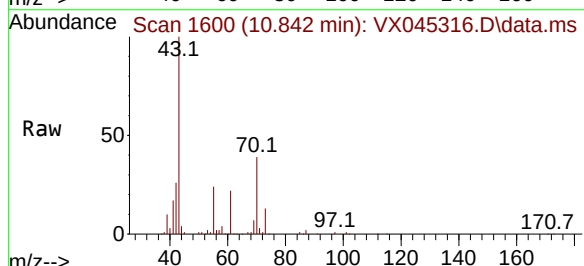
Ion Ratio Lower Upper

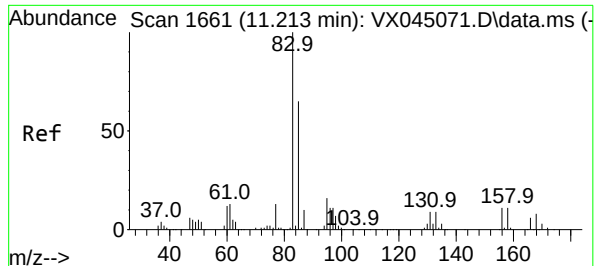
43 100

70 38.3 31.8 47.6

55 24.1 18.3 27.5

61 22.5 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 20.825 ug/l

RT: 11.207 min Scan# 1660

Delta R.T. -0.006 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBSD01

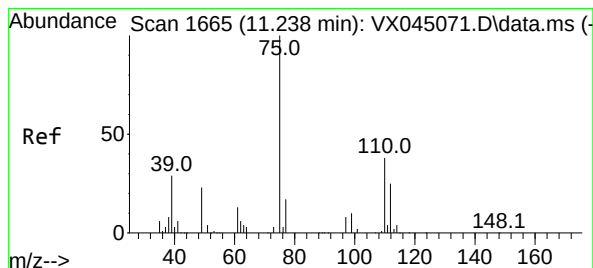
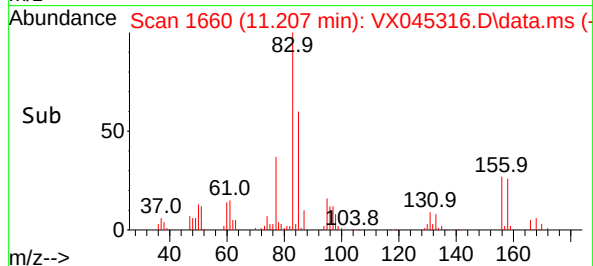
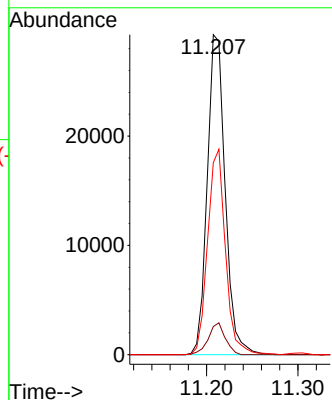
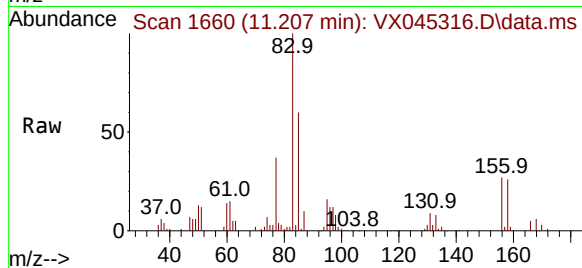
Tgt Ion:	83	Resp:	39864
Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.5	13.4
85	63.7	31.7	95.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#76

1,2,3-Trichloropropane

Concen: 20.837 ug/l m

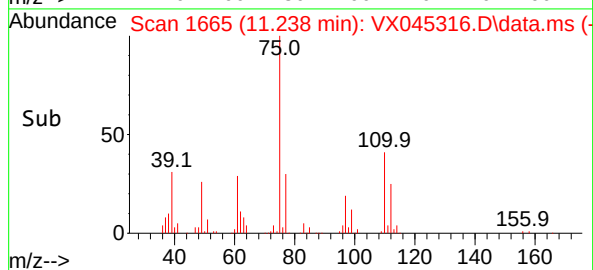
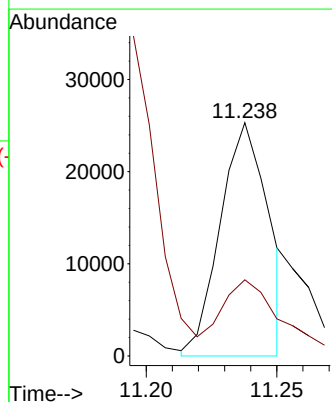
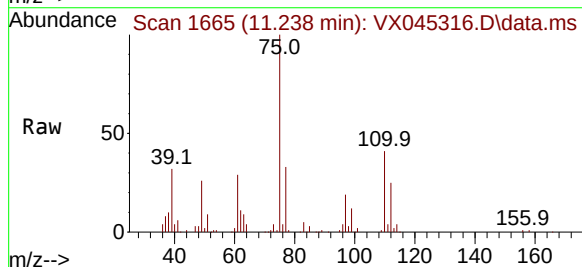
RT: 11.238 min Scan# 1665

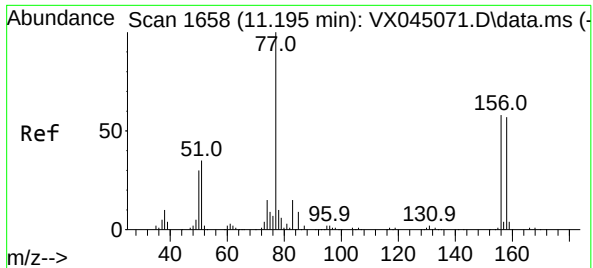
Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

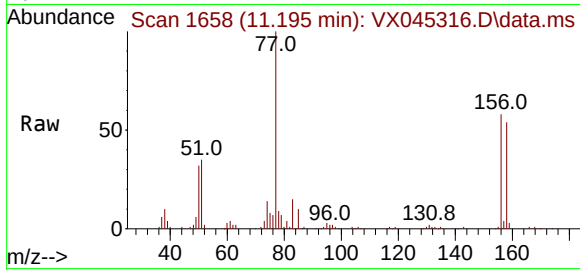
Tgt Ion:	75	Resp:	32413
Ion	Ratio	Lower	Upper
75	100		
77	41.1	20.7	62.1





#77
Bromobenzene
Concen: 20.537 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

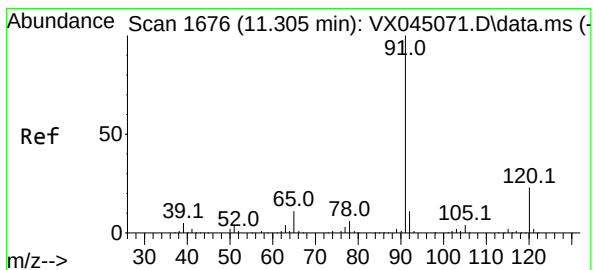
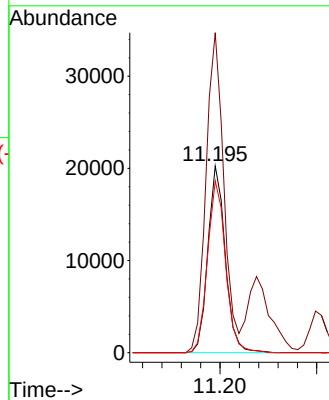
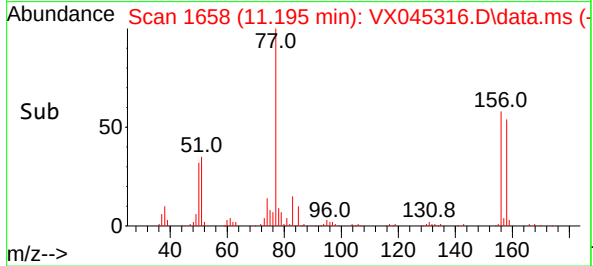
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01



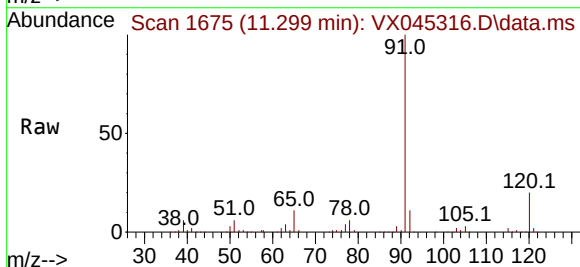
Tgt Ion:156 Resp: 2527
Ion Ratio Lower Upper
156 100
77 175.3 85.8 257.4
158 95.7 48.4 145.2

Manual Integrations
APPROVED

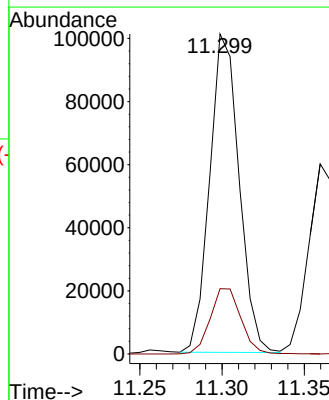
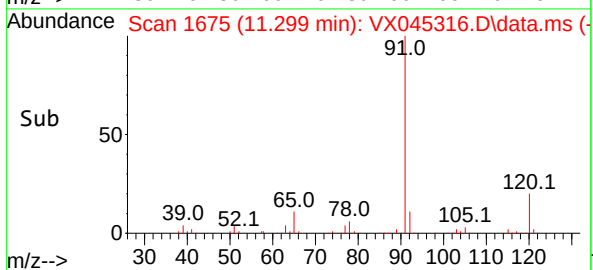
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

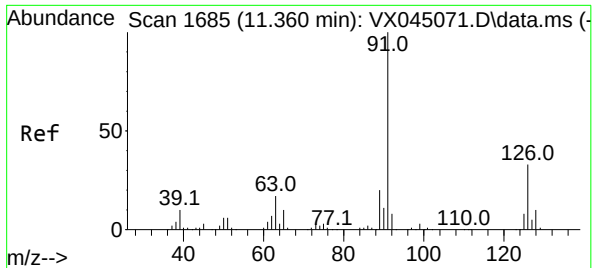


#78
n-propylbenzene
Concen: 21.316 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43



Tgt Ion: 91 Resp: 125607
Ion Ratio Lower Upper
91 100
120 21.5 11.2 33.6





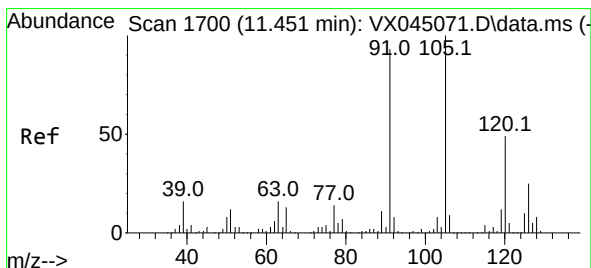
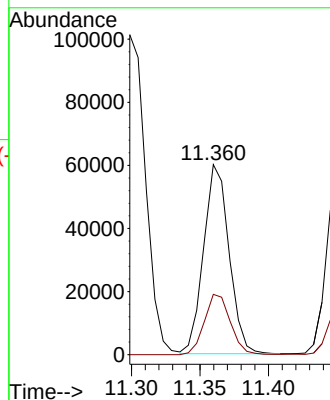
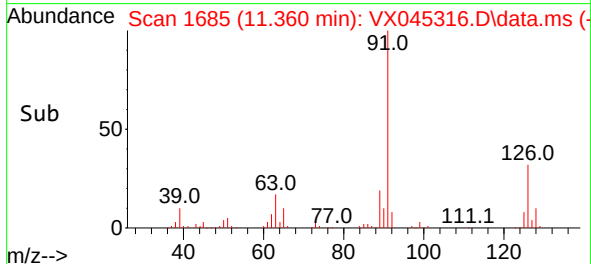
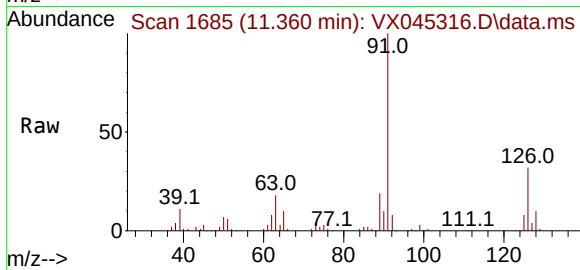
#79
2-Chlorotoluene
Concen: 20.671 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01

Tgt Ion: 91 Resp: 7757
Ion Ratio Lower Upper
91 100
126 32.5 16.4 49.4

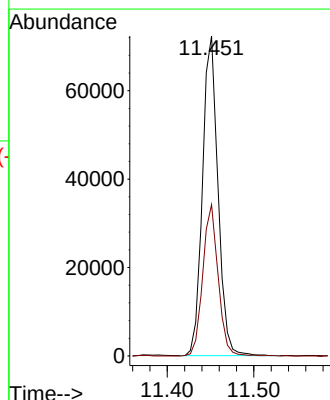
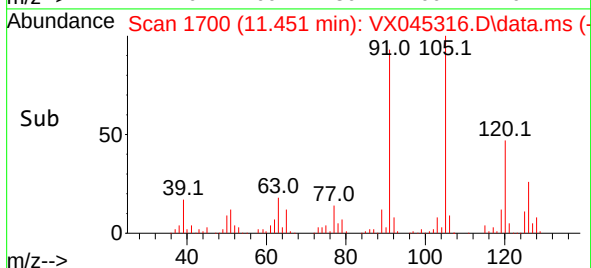
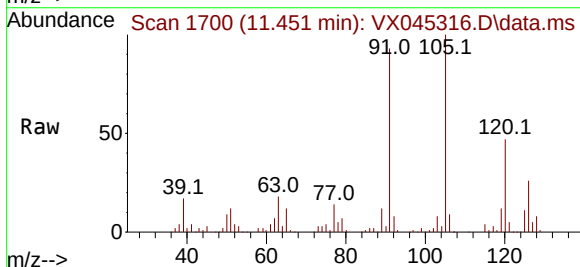
Manual Integrations
APPROVED

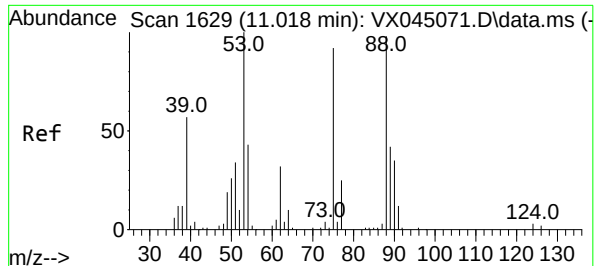
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#80
1,3,5-Trimethylbenzene
Concen: 21.296 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

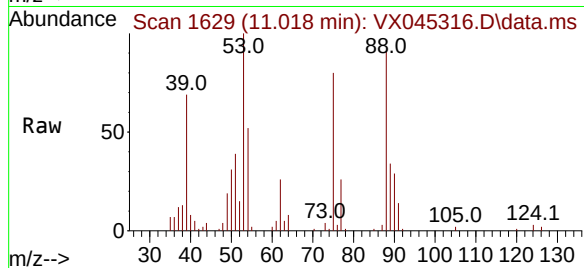
Tgt Ion:105 Resp: 89825
Ion Ratio Lower Upper
105 100
120 46.9 24.1 72.2





#81
trans-1,4-Dichloro-2-butene
Concen: 20.350 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

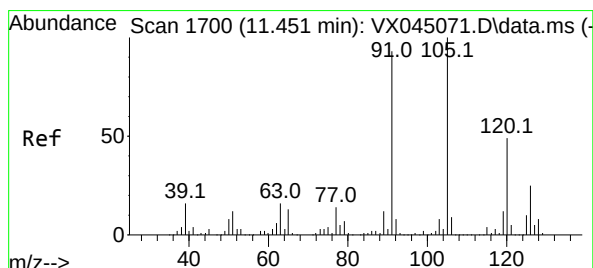
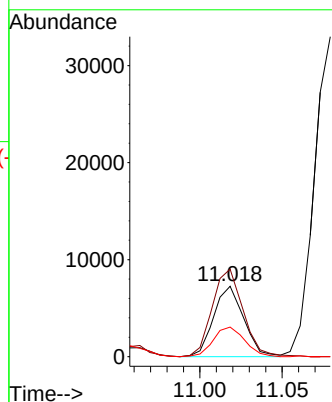
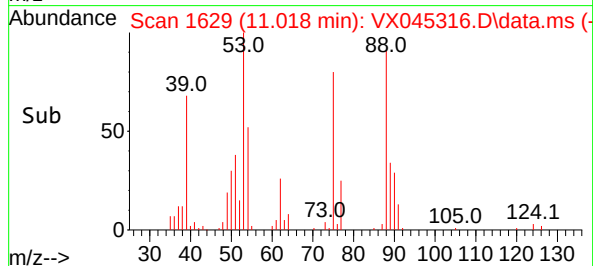
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01



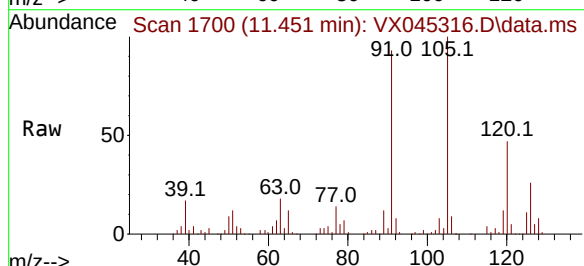
Tgt Ion: 75 Resp: 9250
Ion Ratio Lower Upper
75 100
53 127.5 88.5 132.7
89 44.0 36.2 54.4

Manual Integrations
APPROVED

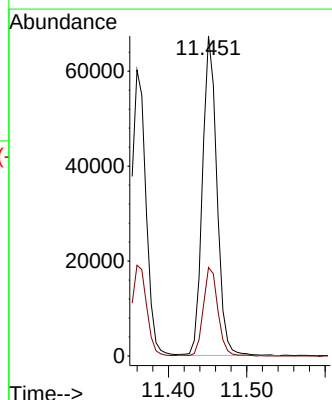
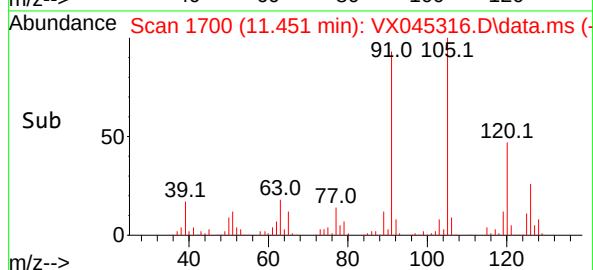
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

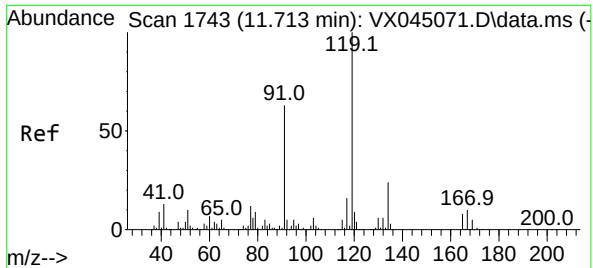


#82
4-Chlorotoluene
Concen: 21.056 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43



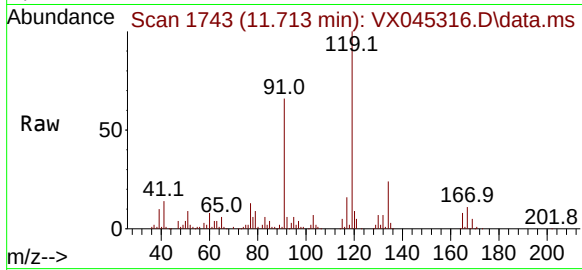
Tgt Ion: 91 Resp: 86122
Ion Ratio Lower Upper
91 100
126 28.2 14.1 42.4





#83
tert-Butylbenzene
Concen: 20.351 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

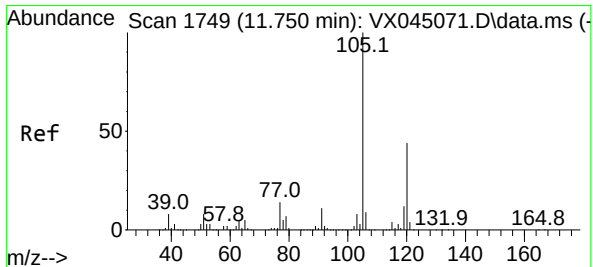
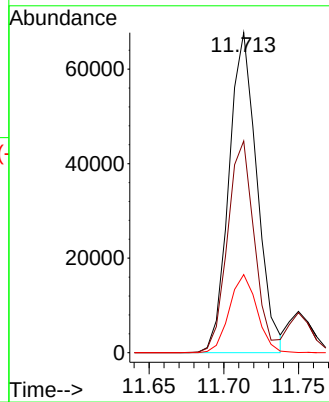
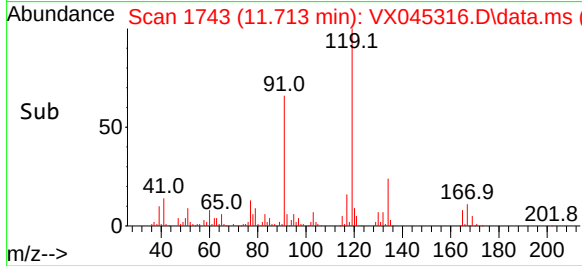
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01



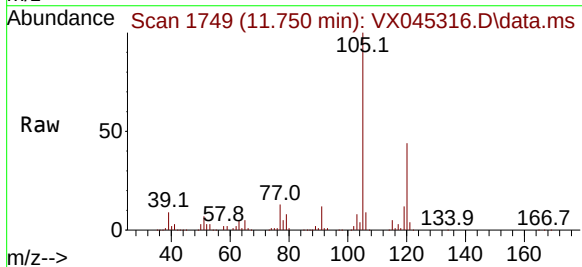
Tgt Ion:119 Resp: 8819
Ion Ratio Lower Upper
119 100
91 64.0 30.7 92.1
134 24.1 11.7 35.0

Manual Integrations
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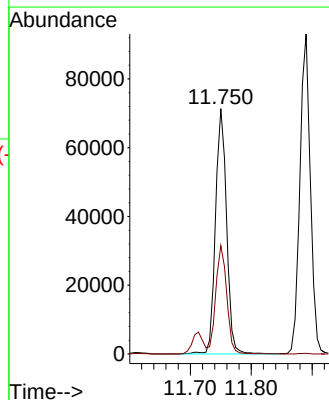
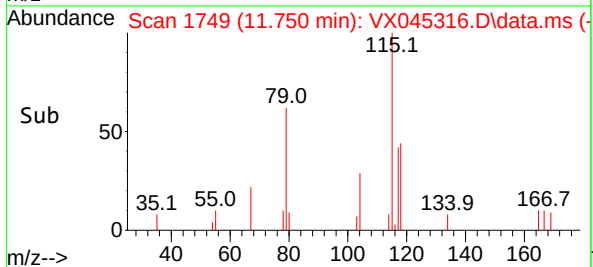
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

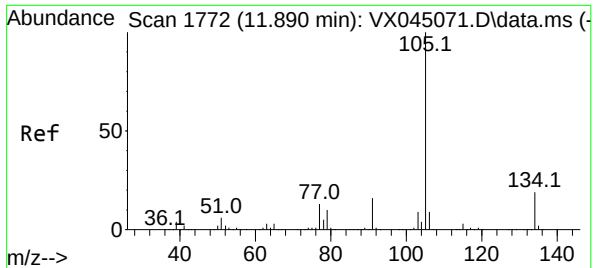


#84
1,2,4-Trimethylbenzene
Concen: 21.234 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43



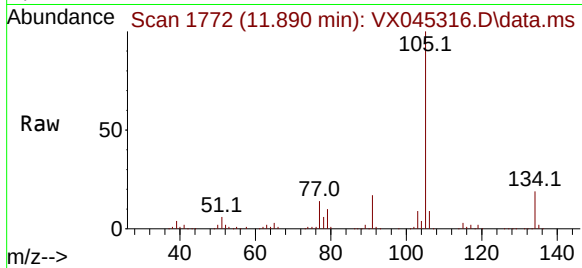
Tgt Ion:105 Resp: 90117
Ion Ratio Lower Upper
105 100
120 44.0 22.1 66.1





#85
 sec-Butylbenzene
 Concen: 21.495 ug/l
 RT: 11.890 min Scan# 1172
 Delta R.T. -0.000 min
 Lab File: VX045316.D
 Acq: 18 Mar 2025 11:43

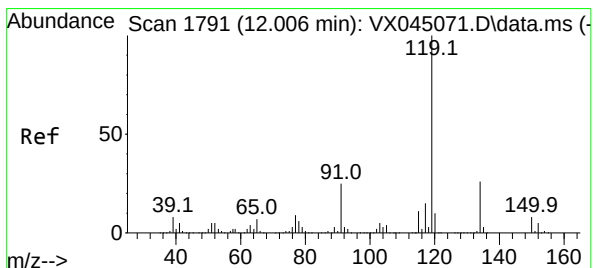
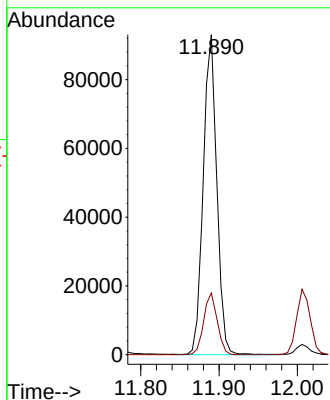
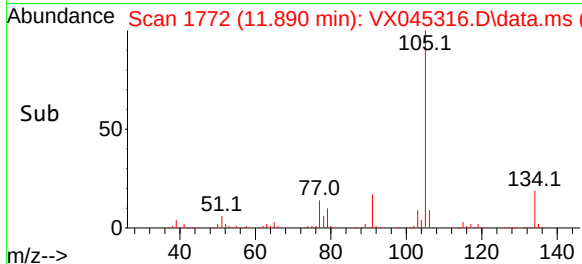
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0318WBSD01



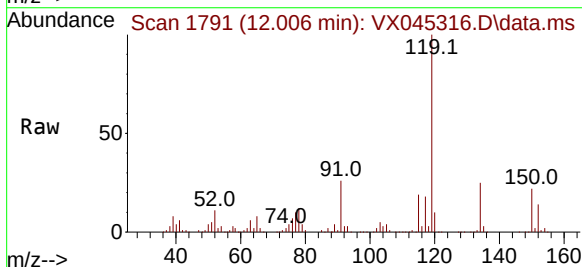
Tgt Ion:105 Resp: 111580
 Ion Ratio Lower Upper
 105 100
 134 19.2 9.8 29.4

Manual Integrations
 APPROVED

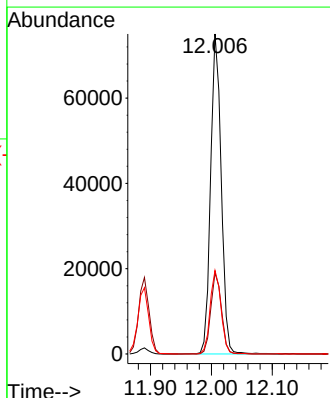
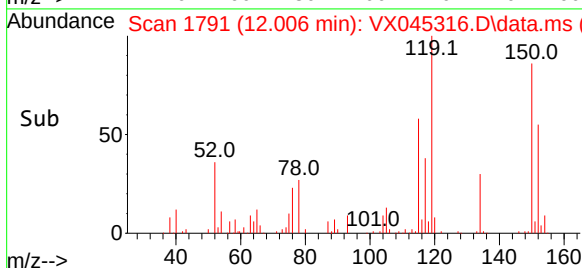
Reviewed By :John Carlone 03/19/2025
 Supervised By :Mahesh Dadoda 03/19/2025

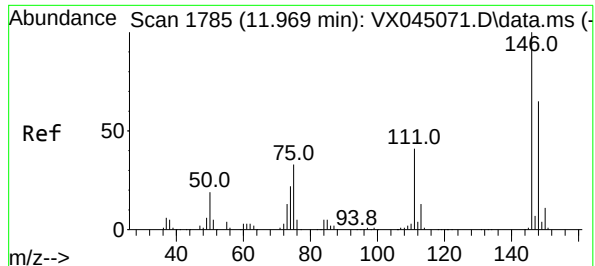


#86
 p-Isopropyltoluene
 Concen: 21.564 ug/l
 RT: 12.006 min Scan# 1791
 Delta R.T. -0.000 min
 Lab File: VX045316.D
 Acq: 18 Mar 2025 11:43



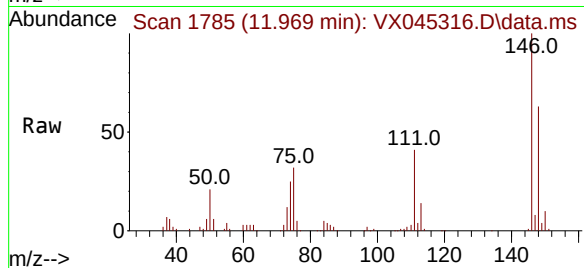
Tgt Ion:119 Resp: 90468
 Ion Ratio Lower Upper
 119 100
 134 25.5 12.9 38.6
 91 26.7 12.7 38.0





#87
1,3-Dichlorobenzene
Concen: 20.801 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

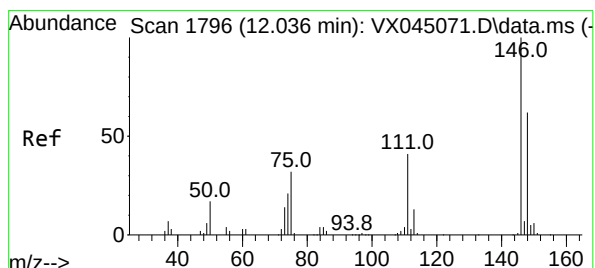
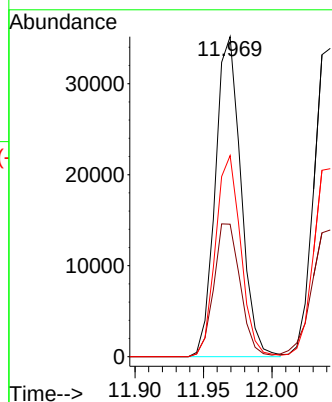
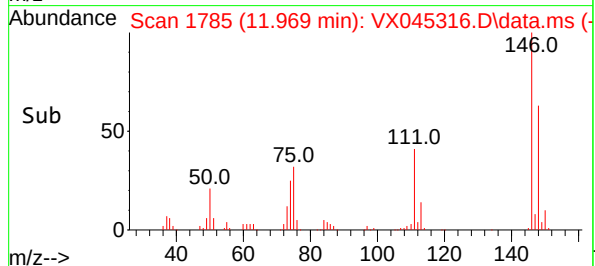
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01



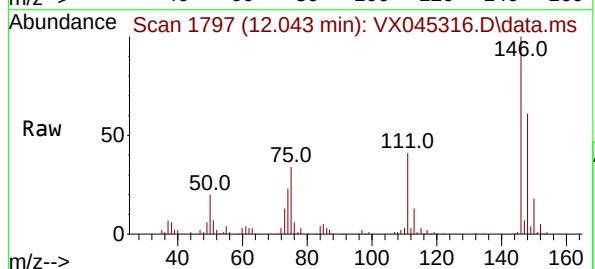
Tgt Ion:146 Resp: 4567
Ion Ratio Lower Upper
146 100
111 42.8 21.1 63.4
148 61.9 31.9 95.7

Manual Integrations
APPROVED

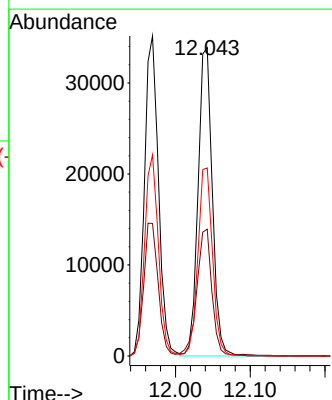
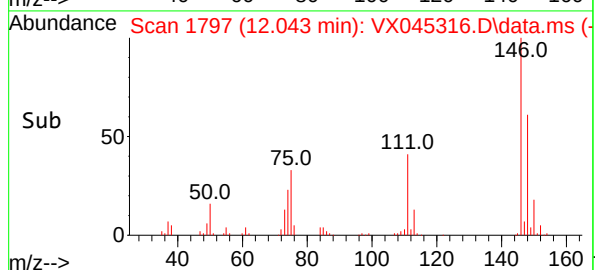
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

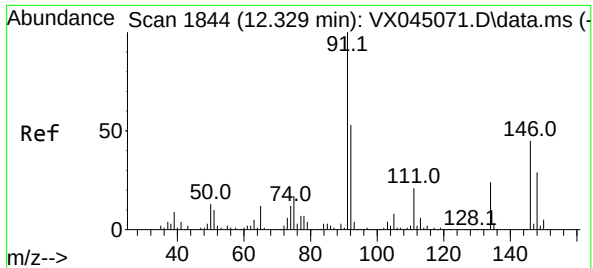


#88
1,4-Dichlorobenzene
Concen: 20.267 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43



Tgt Ion:146 Resp: 45020
Ion Ratio Lower Upper
146 100
111 43.5 20.2 60.5
148 62.5 31.9 95.9





#89

n-Butylbenzene

Concen: 21.804 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX045316.D

Acq: 18 Mar 2025 11:43

Instrument :

MSVOA_X

ClientSampleId :

VX0318WBSD01

Tgt Ion: 91 Resp: 7878

Ion Ratio Lower Upper

91 100

92 53.8 26.7 80.0

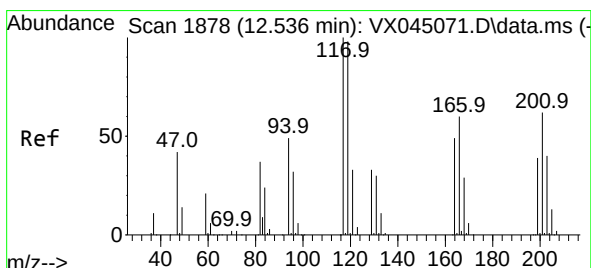
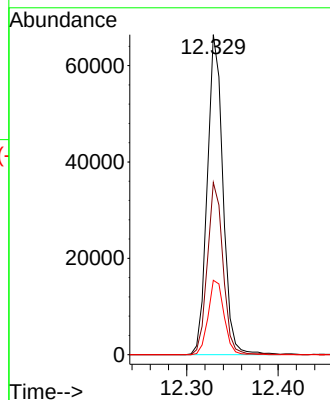
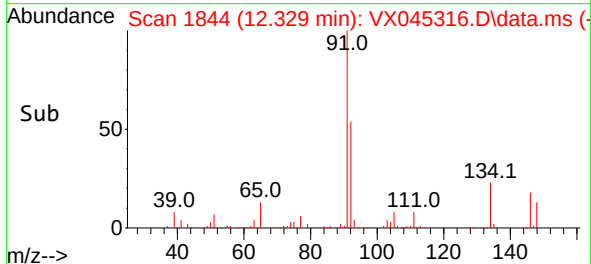
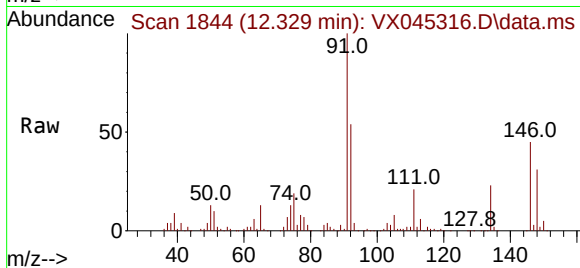
134 23.7 12.2 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#90

Hexachloroethane

Concen: 18.944 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX045316.D

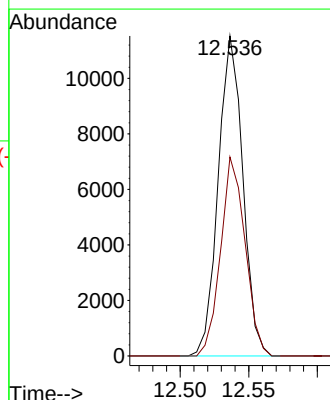
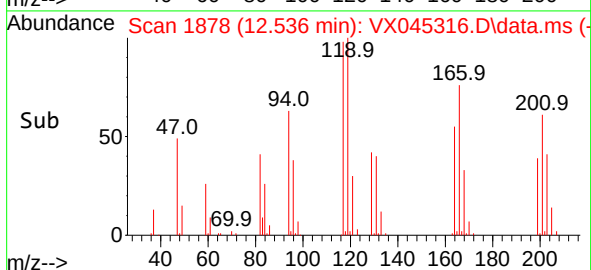
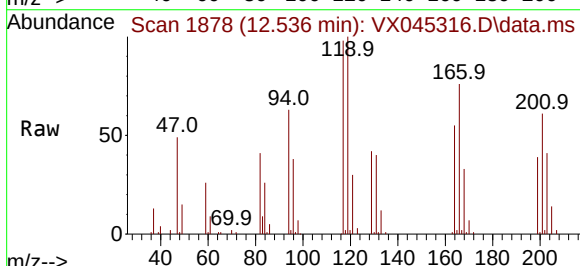
Acq: 18 Mar 2025 11:43

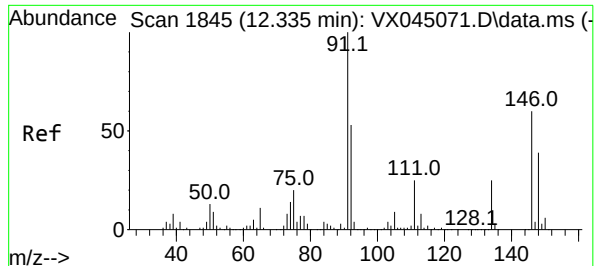
Tgt Ion:117 Resp: 14375

Ion Ratio Lower Upper

117 100

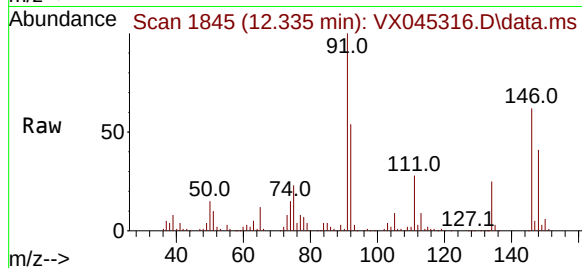
201 62.0 31.9 95.9





#91
1,2-Dichlorobenzene
Concen: 20.937 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

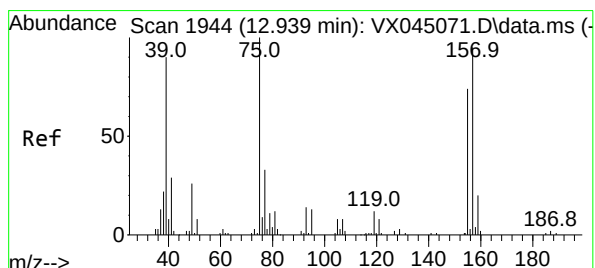
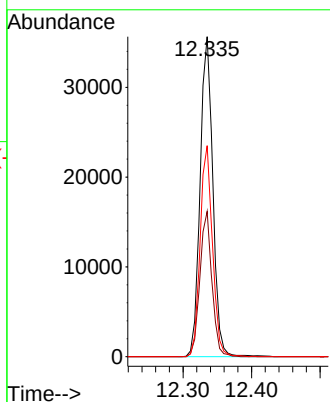
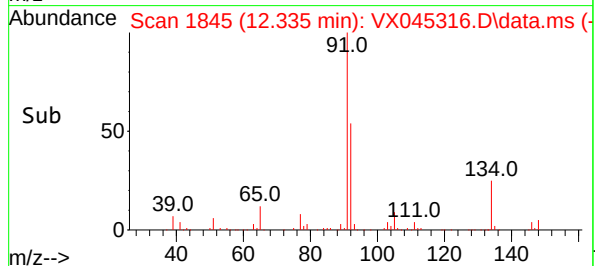
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01



Tgt Ion:146 Resp: 4611
Ion Ratio Lower Upper
146 100
111 42.9 21.6 65.0
148 63.9 31.9 95.9

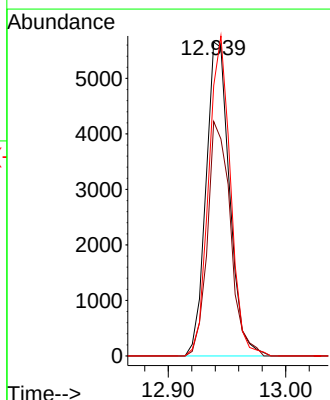
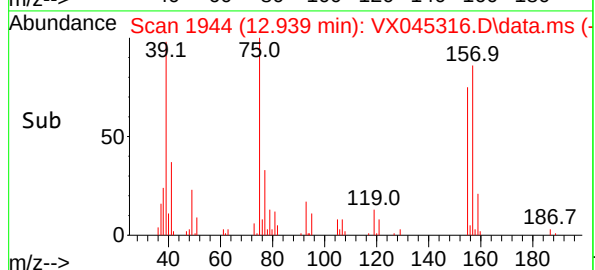
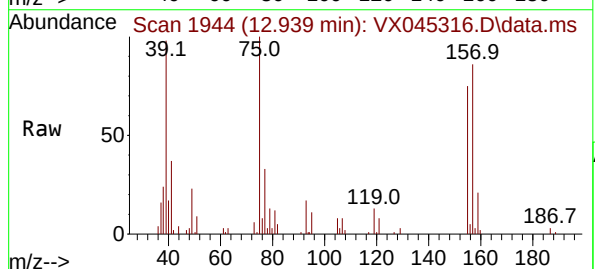
Manual Integrations
APPROVED

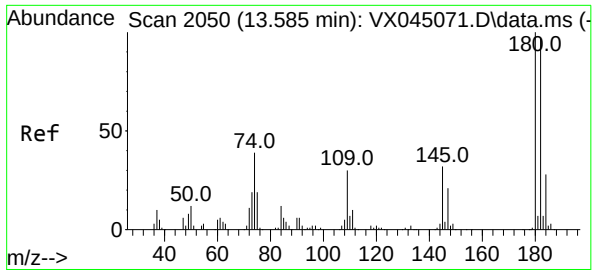
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 21.055 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

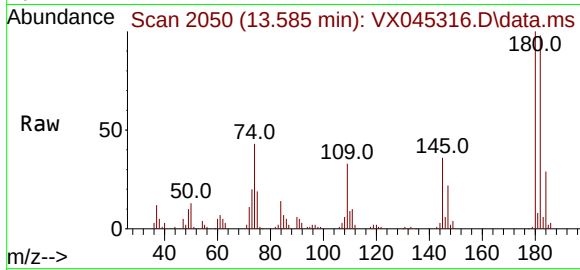
Tgt Ion: 75 Resp: 7852
Ion Ratio Lower Upper
75 100
155 73.0 39.6 118.7
157 94.3 51.1 153.4





#93
1,2,4-Trichlorobenzene
Concen: 20.084 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

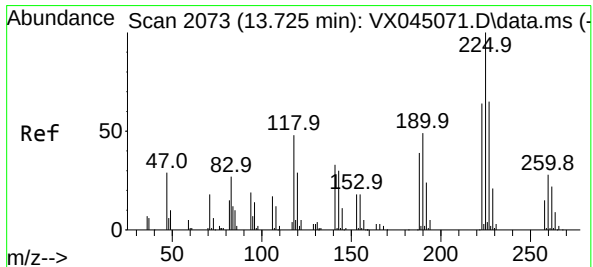
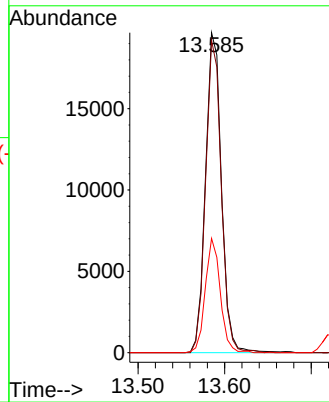
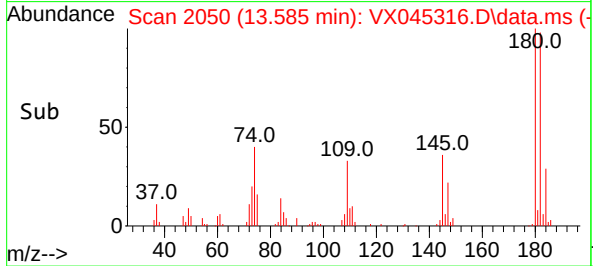
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01



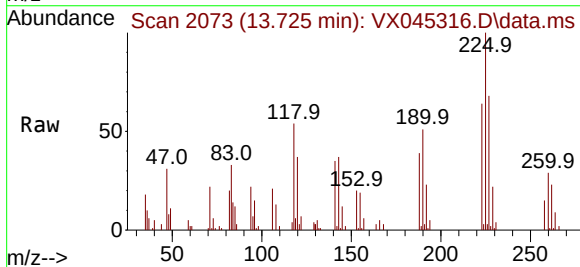
Tgt Ion:180 Resp: 2518
Ion Ratio Lower Upper
180 100
182 95.8 47.3 141.9
145 33.7 16.3 48.9

Manual Integrations
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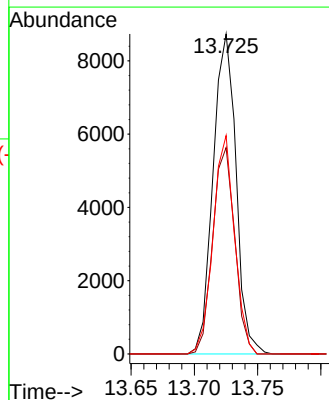
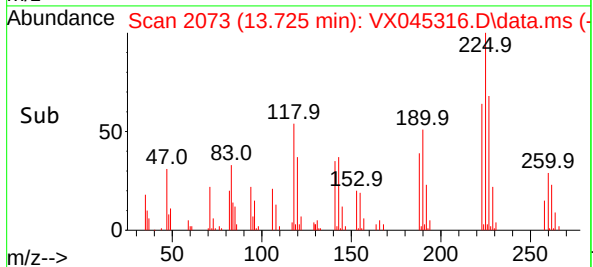
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

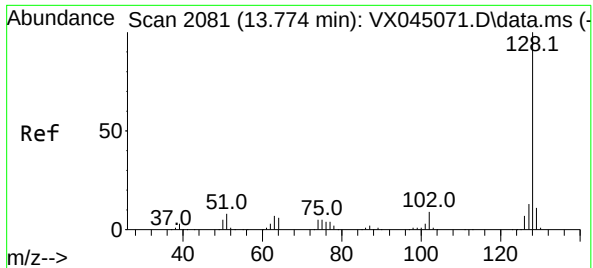


#94
Hexachlorobutadiene
Concen: 21.399 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43



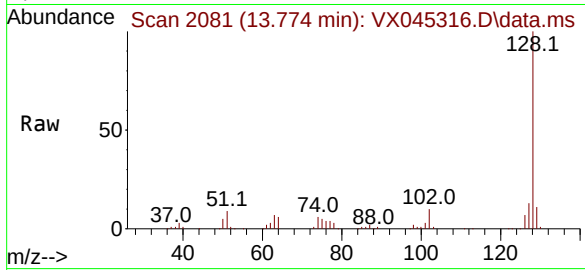
Tgt Ion:225 Resp: 11003
Ion Ratio Lower Upper
225 100
223 61.8 31.9 95.7
227 64.0 31.4 94.0





#95
Naphthalene
Concen: 20.436 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

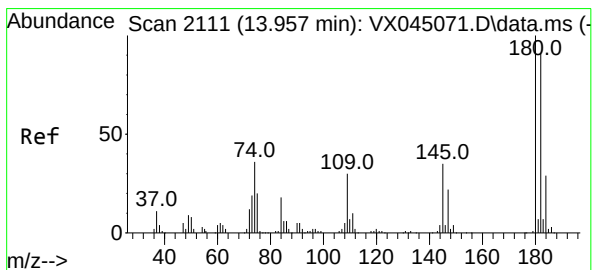
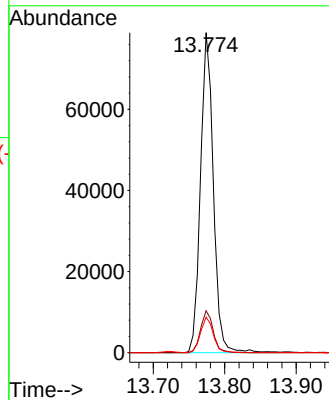
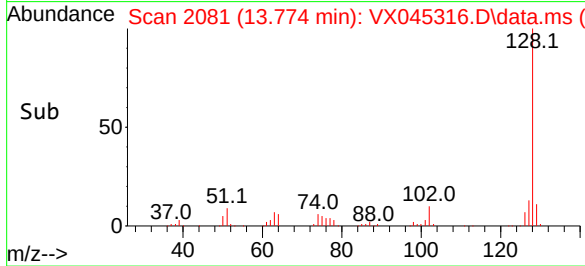
Instrument :
MSVOA_X
ClientSampleId :
VX0318WBSD01



Tgt Ion:128 Resp: 98470
Ion Ratio Lower Upper
128 100
127 12.8 10.3 15.5
129 11.1 8.7 13.1

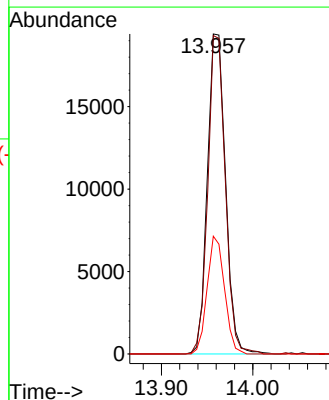
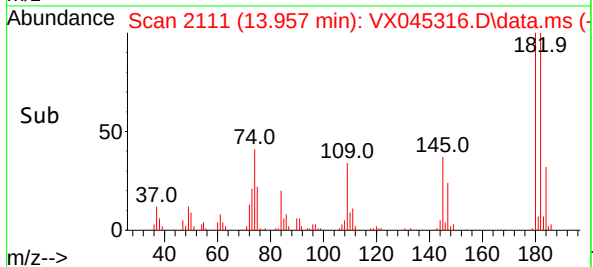
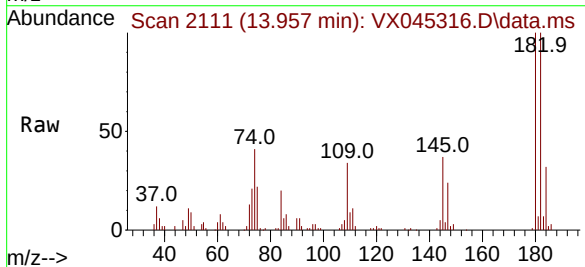
Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.129 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045316.D
Acq: 18 Mar 2025 11:43

Tgt Ion:180 Resp: 26632
Ion Ratio Lower Upper
180 100
182 96.0 47.5 142.6
145 35.4 17.0 50.9



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:

vx031825

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX045312.D	1,2,3-Trichloropropane	JOHN	3/19/2025 9:50:30 AM	MMDadoda	3/19/2025 2:22:25 PM	Peak Integrated by Software
VX0318WBS01	VX045315.D	1,2,3-Trichloropropane	JOHN	3/19/2025 9:50:36 AM	MMDadoda	3/19/2025 2:22:25 PM	Peak Integrated by Software
VX0318WBSD01	VX045316.D	1,2,3-Trichloropropane	JOHN	3/19/2025 9:50:41 AM	MMDadoda	3/19/2025 2:22:27 PM	Peak Integrated by Software
VSTDCCC050	VX045338.D	1,2,3-Trichloropropane	JOHN	3/19/2025 9:51:19 AM	MMDadoda	3/19/2025 2:22:32 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	VSTDICCC001	VX045068.D	28 Feb 2025 01:27	JC/MD	Ok,M
3	VSTDICCC005	VX045069.D	28 Feb 2025 02:13	JC/MD	Ok,M
4	VSTDICCC020	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	VSTDICCC100	VX045072.D	28 Feb 2025 03:23	JC/MD	Ok,M
7	VSTDICCC150	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	VSTDICCC050	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 # VX031825

Review By	John Carlone	Review On	3/19/2025 10:07:00 AM
Supervise By	Maresh Dadoda	Supervise On	3/19/2025 2:22:41 PM
SubDirectory	VX031825	HP Acquire Method	HP Processing Method 82X022825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133349		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133350,VP133351		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045311.D	18 Mar 2025 09:33	JC/MD	Ok
2	VSTDCCC050	VX045312.D	18 Mar 2025 10:02	JC/MD	Ok,M
3	VX0318MBL01	VX045313.D	18 Mar 2025 10:30	JC/MD	Ok
4	VX0318WBL01	VX045314.D	18 Mar 2025 10:53	JC/MD	Ok
5	VX0318WBS01	VX045315.D	18 Mar 2025 11:16	JC/MD	Ok,M
6	VX0318WBSD01	VX045316.D	18 Mar 2025 11:43	JC/MD	Ok,M
7	Q1559-07DL	VX045317.D	18 Mar 2025 12:07	JC/MD	Ok
8	Q1559-01DL	VX045318.D	18 Mar 2025 12:30	JC/MD	Ok
9	Q1559-05DL	VX045319.D	18 Mar 2025 12:54	JC/MD	Ok
10	Q1559-16DL	VX045320.D	18 Mar 2025 13:17	JC/MD	Ok
11	Q1559-04DL	VX045321.D	18 Mar 2025 13:41	JC/MD	Ok
12	Q1559-03	VX045322.D	18 Mar 2025 14:04	JC/MD	Ok
13	Q1559-06	VX045323.D	18 Mar 2025 14:27	JC/MD	Ok
14	Q1557-01	VX045324.D	18 Mar 2025 14:51	JC/MD	Ok
15	Q1557-02	VX045325.D	18 Mar 2025 15:14	JC/MD	Ok
16	Q1557-06	VX045326.D	18 Mar 2025 15:38	JC/MD	Ok
17	Q1557-07	VX045327.D	18 Mar 2025 16:01	JC/MD	Ok
18	Q1557-08	VX045328.D	18 Mar 2025 16:24	JC/MD	Ok
19	Q1559-21	VX045329.D	18 Mar 2025 16:47	JC/MD	Dilution
20	Q1559-22	VX045330.D	18 Mar 2025 17:10	JC/MD	Dilution
21	Q1559-08	VX045331.D	18 Mar 2025 17:34	JC/MD	ReRun

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX031825

Review By	John Carlone	Review On	3/19/2025 10:07:00 AM
Supervise By	Maresh Dadoda	Supervise On	3/19/2025 2:22:41 PM
SubDirectory	VX031825	HP Acquire Method	HP Processing Method 82X022825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133349		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133350,VP133351		

22	Q1559-09	VX045332.D	18 Mar 2025 17:57	JC/MD	Dilution
23	Q1559-19	VX045333.D	18 Mar 2025 18:20	JC/MD	Ok
24	Q1576-01	VX045334.D	18 Mar 2025 18:43	JC/MD	Ok
25	Q1557-03	VX045335.D	18 Mar 2025 19:07	JC/MD	Ok
26	Q1557-04MS	VX045336.D	18 Mar 2025 19:30	JC/MD	Ok,M
27	Q1557-05MSD	VX045337.D	18 Mar 2025 19:53	JC/MD	Ok,M
28	VSTDCCC050	VX045338.D	18 Mar 2025 20:16	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	VSTDCCC050	VSTDCCC050	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 # VX031825

Review By	John Carlone	Review On	3/19/2025 10:07:00 AM
Supervise By	Maresh Dadoda	Supervise On	3/19/2025 2:22:41 PM
SubDirectory	VX031825	HP Acquire Method	HP Processing Method 82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP133349
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133350,VP133351

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045311.D	18 Mar 2025 09:33		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX045312.D	18 Mar 2025 10:02	pH#Lot#V12668	JC/MD	Ok,M
3	VX0318MBL01	VX0318MBL01	VX045313.D	18 Mar 2025 10:30		JC/MD	Ok
4	VX0318WBL01	VX0318WBL01	VX045314.D	18 Mar 2025 10:53		JC/MD	Ok
5	VX0318WBS01	VX0318WBS01	VX045315.D	18 Mar 2025 11:16		JC/MD	Ok,M
6	VX0318WBSD01	VX0318WBSD01	VX045316.D	18 Mar 2025 11:43		JC/MD	Ok,M
7	Q1559-07DL	RE125D3-20250310DL	VX045317.D	18 Mar 2025 12:07	vial B pH<2	JC/MD	Ok
8	Q1559-01DL	RE115D1-20250310DL	VX045318.D	18 Mar 2025 12:30	vial B pH<2	JC/MD	Ok
9	Q1559-05DL	RE134D4-20250310DL	VX045319.D	18 Mar 2025 12:54	vial B pH<2	JC/MD	Ok
10	Q1559-16DL	RW4-RE137-20250311	VX045320.D	18 Mar 2025 13:17	vial B pH<2	JC/MD	Ok
11	Q1559-04DL	RE134D3-20250310DL	VX045321.D	18 Mar 2025 13:41	vial B pH<2	JC/MD	Ok
12	Q1559-03	RE134D1-20250310	VX045322.D	18 Mar 2025 14:04	vial B pH<2	JC/MD	Ok
13	Q1559-06	TT149S1-20250310	VX045323.D	18 Mar 2025 14:27	vial B pH<2	JC/MD	Ok
14	Q1557-01	BPOW6-7-20250312	VX045324.D	18 Mar 2025 14:51	vial A pH<2	JC/MD	Ok
15	Q1557-02	BPOW6-8-20250312	VX045325.D	18 Mar 2025 15:14	vial A pH<2	JC/MD	Ok
16	Q1557-06	BPOW6-10-20250312	VX045326.D	18 Mar 2025 15:38	vial A pH<2	JC/MD	Ok
17	Q1557-07	BPOW6-11-20250312	VX045327.D	18 Mar 2025 16:01	vial A pH<2	JC/MD	Ok
18	Q1557-08	DUP04-20250312	VX045328.D	18 Mar 2025 16:24	vial A pH<2	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX031825

Review By	John Carlone	Review On	3/19/2025 10:07:00 AM
Supervise By	Maresh Dadoda	Supervise On	3/19/2025 2:22:41 PM
SubDirectory	VX031825	HP Acquire Method	HP Processing Method 82X022825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133349		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133350,VP133351		

19	Q1559-21	RE120D3-20250312	VX045329.D	18 Mar 2025 16:47	vial A pH<2 Need 20X	JC/MD	Dilution
20	Q1559-22	RE120D2-20250312	VX045330.D	18 Mar 2025 17:10	vial A pH<2 Need 10X	JC/MD	Dilution
21	Q1559-08	DUP02-20250310	VX045331.D	18 Mar 2025 17:34	vial A pH<2 E flag of previous sample	JC/MD	ReRun
22	Q1559-09	DUP03-20250310	VX045332.D	18 Mar 2025 17:57	vial A pH<2 Need 10X	JC/MD	Dilution
23	Q1559-19	DUP05-20250312	VX045333.D	18 Mar 2025 18:20	vial A pH<2	JC/MD	Ok
24	Q1576-01	MW14	VX045334.D	18 Mar 2025 18:43	vial B pH<2	JC/MD	Ok
25	Q1557-03	BPOW6-9-20250312	VX045335.D	18 Mar 2025 19:07	vial A pH<2	JC/MD	Ok
26	Q1557-04MS	BPOW6-9-20250312MS	VX045336.D	18 Mar 2025 19:30	vial A pH<2	JC/MD	Ok,M
27	Q1557-05MSD	BPOW6-9-20250312MS	VX045337.D	18 Mar 2025 19:53	vial A pH<2	JC/MD	Ok,M
28	VSTDCCC050	VSTDCCC050EC	VX045338.D	18 Mar 2025 20:16		JC/MD	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q1576

Test : VOC-TCLVOA-10

Prepbatch ID :

Sequence ID/Qc Batch ID: vx031825,

Standard ID :

VP131746,VP131767,VP132035,VP132096,VP133174,VP133178,VP133342,VP133349,VP133350,VP133351,

Chemical ID :

V13391,V13457,V13460,V13465,V13466,V13706,V14154,V14175,V14176,V14289,V14433,V14439,V14521,V14522,V
14613,V14614,V14630,V14631,V14632,V14633,V14722,V14723,V14724,V14744,V14754,V14809,V14814,V14842,V14
883,V14896,V14897,V14898,V14899,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



<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
<u>FROM</u> 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
<u>FROM</u> 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>
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

<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

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	VP133342	03/18/2025	04/17/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/20/2025

FROM 1.00000ml of V14896 + 1.00000ml of V14897 + 1.00000ml of V14898 + 1.00000ml of V14899 + 21.00000ml of V14883 = 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	VP133349	03/18/2025	03/19/2025	John Carlone	None	None	Mahesh Dadoda 03/20/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 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>
620	50 PPB CCC, 8260-Water	VP133350	03/18/2025	03/19/2025	John Carlone	None	None	Mahesh Dadoda 03/20/2025
<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 VP133178 + 0.01250ml of VP133342 = Final Quantity: 40.000 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>
620	50 PPB CCC, 8260-Water	VP133351	03/18/2025	03/19/2025	John Carlone	None	None	Mahesh Dadoda 03/20/2025
<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 VP133178 + 0.01250ml of VP133342 = 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 #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14630

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

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	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

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

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	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 #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	10/25/2025	02/19/2025 / Jaswal	04/22/2024 / Jaswal	V14883

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14896

CHEMICAL RECEIPT LOG BOOK

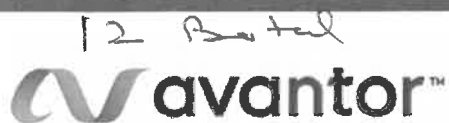
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14897

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14898

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14899

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



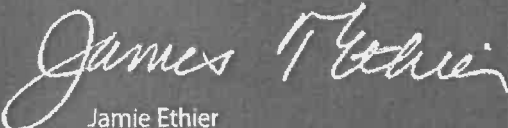
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

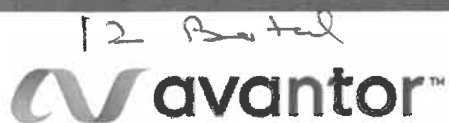
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	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



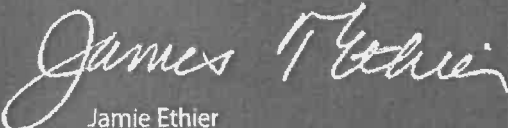
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
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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



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: **5E-05** Flask Uncertainty: **0.021**

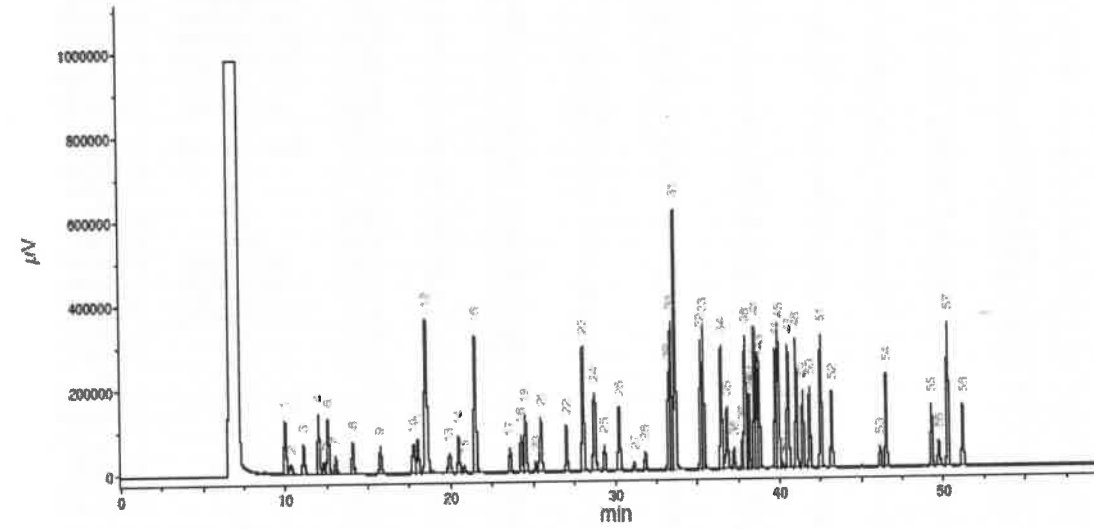
		021624
Formulated By:	Prashant Chauhan	DATE
		021624
Reviewed By:	Pedro L. Rentes	DATE

Compound	(RM#)	Lot	Di.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information			
														(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50
Part Number	Number	Factor	Vol. (mL)	Conc. (µg/mL)	Conc. (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	(+/-) (µg/mL)					
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	
Allyl chloride (3-Chloropropene)	(0325)	102396	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	
Carbon disulfide	(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	
cis-1,4-Dichloro-2-butene	(1198)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A	
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	
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	
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	or-rat 14800mg/kg	
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 70mg/kg	
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 3480mg/kg	
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	
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	
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	
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 700mg/kg	
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	
Pentachloroethane	(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	
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	
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 910mg/kg	
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	
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	
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	N/A	
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 1235mg/kg	
1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
1,1-Dichloropropane	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	22.9	563-56-6	N/A	N/A	
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	
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	
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	
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	
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	
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 830mg/kg	
Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-rat 2400mg/kg	
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	
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	
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	or-rat 2650mg/kg	
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	
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	
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	
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	
Styrene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-98-3	200 ppm	or-rat 5000mg/kg	
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	
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	
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	
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	
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	
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	
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	
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	
Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg	
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	
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	
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	75 ppm (450mg/m3/8H)	or-rat 900mg/kg	
1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	or-rat 1065mg/kg	
1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017								

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-Helopropene	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 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: **5E-05** Flask Uncertainty: **0.021**

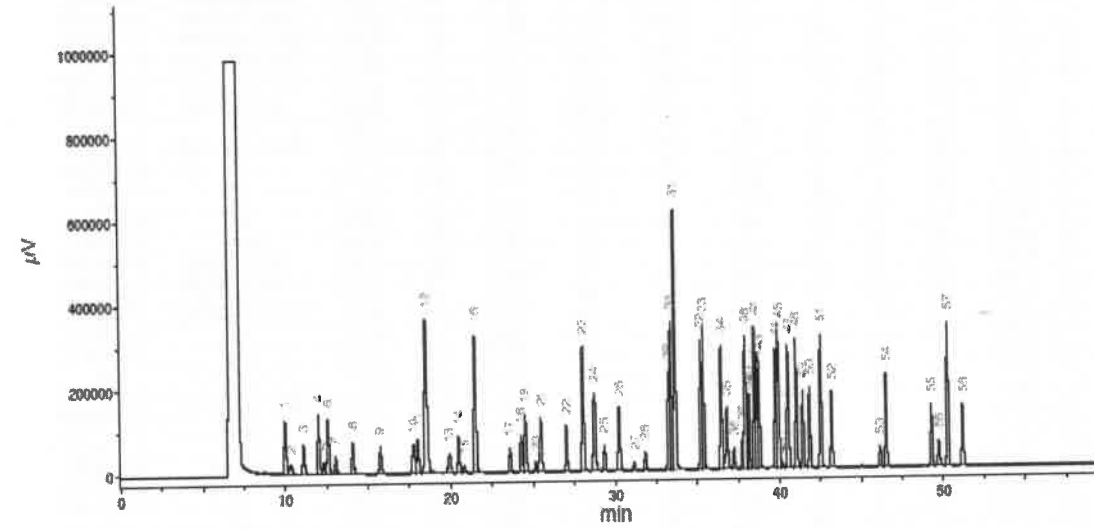
Formulated By:	<i>Prashant Chauhan</i>	021624
	Prashant Chauhan	DATE
Reviewed By:	<i>Pedro L. Rentes</i>	021624
	Pedro L. Rentes	DATE

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	98.9	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	0.20580	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	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	50 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	106-57-8	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	1999.7	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	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	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	780	

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	36.80
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

202 03/18/24



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 031725
Description: Acrolein

Expiration Date: 04/1725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water
Lot# 072324Q

V14895 to
V14899

5E-05 Balance Uncertainty
0.001 Peak Uncertainty

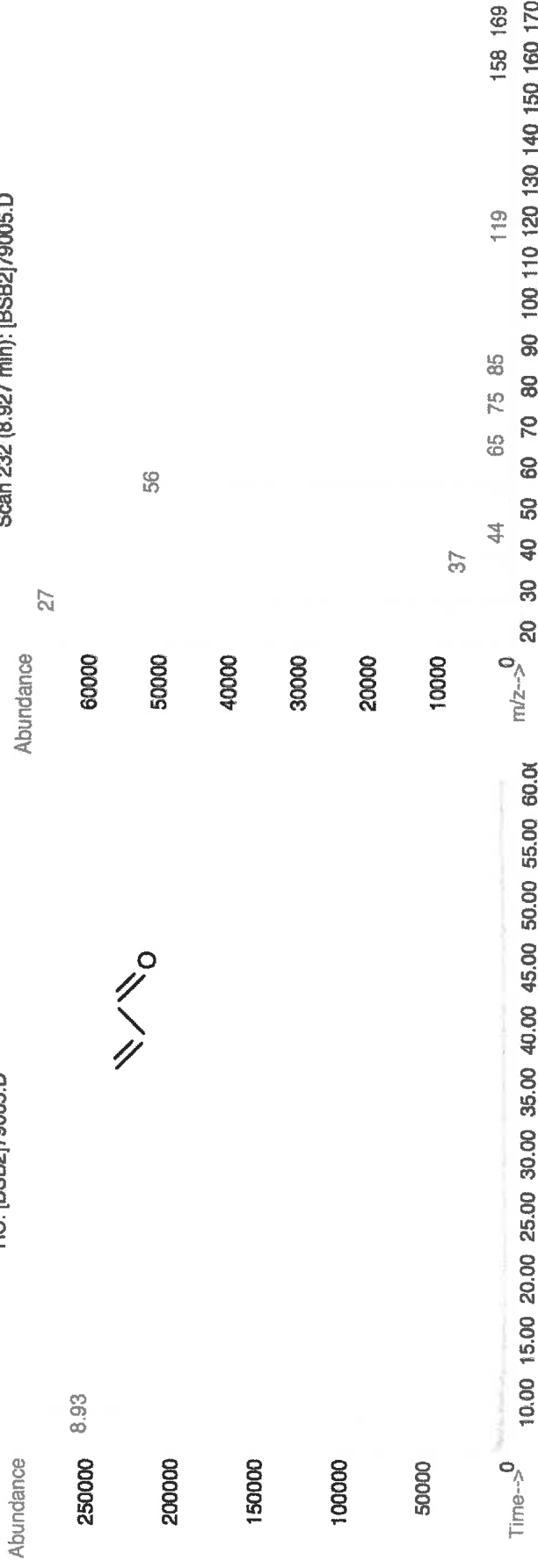
Weight(s) shown below were combined and diluted to (mL): 10.0

Formulated By: <i>Lawrence Barry</i>	031725
DATE	
Reviewed By: <i>Pedro L. Rentas</i>	031725
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) LDSO
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm orl-rat 48mg/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 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, 2025

Section II - Hazards Identification

P271	Use in ventilated area	GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
P302,332	If on skin, wash with soap and water	H315
		P280
		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#: 7732-18-5	% (optional)
Water		> 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

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)
Vapor Pressure (mm Hg)		Melting Point

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. Exposure to this product may have serious adverse health effects including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. 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.

Section XVI. Misc. INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XV. REGULATORY INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water
ATA
Not dangerous goods
Proper shipping name: Water

Section XIV. TRANSPORT INFORMATION

Dispose with normal Laboratory Solvent Waste.

Section XIII. DISPOSAL CONSIDERATIONS

LC50 NA
EC50 NA

Section XII. ECOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

Section XI. TOXICOLOGICAL INFORMATION

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 X. STABILITY AND REACTIVITY

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Solubility in Water		Completely miscible	
Vapor Density (AIR = 1)		NA	(Butyl Acetate = 1)
0°C		NA	NA



Certified Reference Material CRM

202 03/18/24



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 031725
Description: Acrolein

Expiration Date: 04/17/25
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water
Lot# 072324Q

V14895 to
V14899

5E-05 Balance Uncertainty
0.001 Peak Uncertainty

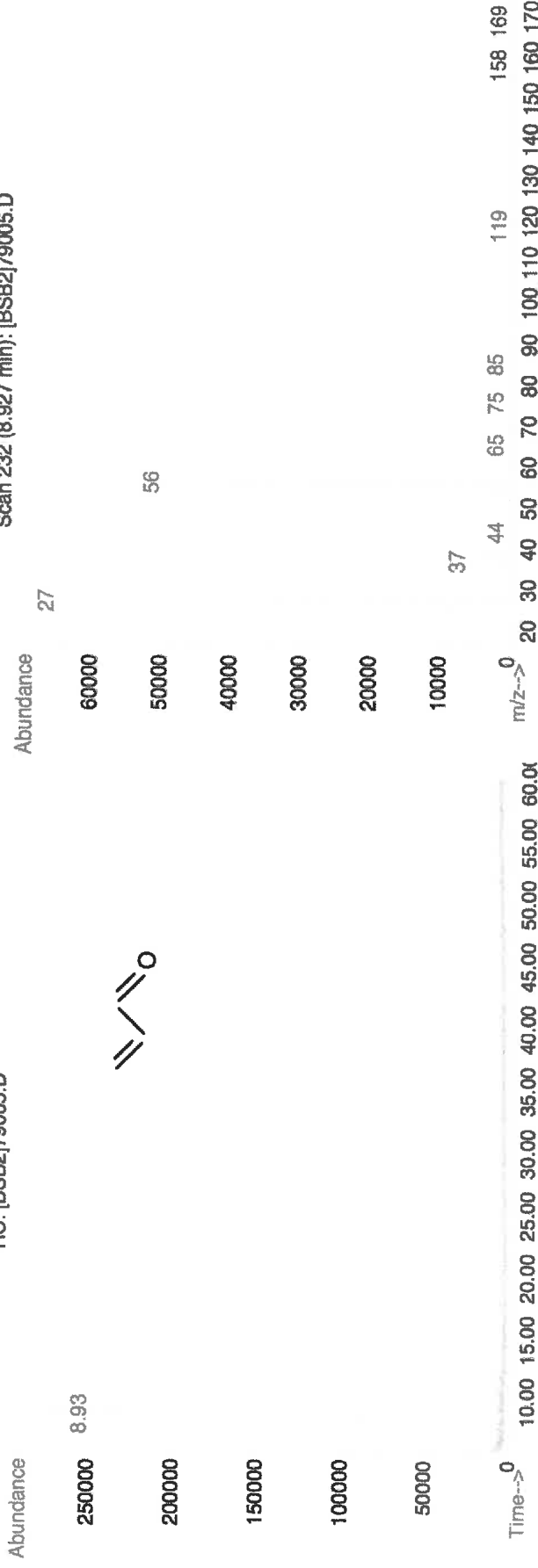
Weight(s) shown below were combined and diluted to (mL): 10.0

Formulated By: <i>Lawrence Barry</i>	031725
DATE	
Reviewed By: <i>Pedro L. Rentas</i>	031725
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) LDSO
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm orl-rat 48mg/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 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, 2025

Section II - Hazards Identification

P271	Use in ventilated area	GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
P302,332	If on skin, wash with soap and water	H315
		P280
		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#: 7732-18-5	% (optional)
Water		> 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

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. 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

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)
Vapor Pressure (mm Hg)		Melting Point

Vapor Density (AIR = 1)			
NA	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. Exposure to this product may have serious adverse health effects including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. 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

202-03/18/24



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 031725
Description: Acrolein

Expiration Date: 04/17/25
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water
Lot# 072324Q

V14895 to
V14899

5E-05 Balance Uncertainty
0.001 Peak Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

Formulated By: <i>Lawrence Barry</i>	031725
DATE	
Reviewed By: <i>Pedro L. Rentas</i>	031725
DATE	

Expanded Uncertainty (+/-) (µg/mL)	Actual Conc (µg/mL)	Actual Weight (g)	Target Weight (g)	Purity (%)	Nominal Conc (µg/mL)	Lot Number	RM#	Compound
52.5	5004.1	0.05170	0.05166	97	5000	103755V10F	5	Acrolein

1. Acrolein 0.1 ppm orl-rat 48mg/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 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

Abundance

Abundance

Scan 232 (8.927 min): [BSB2]79005.D

27

250000 8.93

200000



50000 56

150000

40000

30000

100000

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-->

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).

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, 2025

Section II - Hazards Identification

P271	Use in ventilated area	GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
P302,332	If on skin, wash with soap and water	H315
		P280
		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#: 7732-18-5	% (optional)
Water		> 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

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. 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

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 (H ₂ O = 1)
Vapor Pressure (mm Hg)		Melting Point

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. Exposure to this product may have serious adverse health effects including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. 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.

Section XVI. Misc. INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XV. REGULATORY INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water
ATA
Not dangerous goods
Proper shipping name: Water

Section XIV. TRANSPORT INFORMATION

Dispose with normal Laboratory Solvent Waste.

Section XIII. DISPOSAL CONSIDERATIONS

LC50 NA
EC50 NA

Section XII. ECOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

Section XI. TOXICOLOGICAL INFORMATION

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 X. STABILITY AND REACTIVITY

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Solubility in Water		Completely miscible	
Vapor Density (AIR = 1)		NA	(Butyl Acetate = 1)
0°C		NA	NA



Certified Reference Material CRM

202 03/18/24



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

91980
031725
Acrolein

Solvent(s):
Water

Lot#
072324Q

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

041725
Refrigerate (4 °C)
5000
6UTB

Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.001 Peak Uncertainty

10.0

Formulated By:	Lawrence Barry	031725
Reviewed By:	Pedro L. Rentas	031725

Expanded
Uncertainty
(+/-) (µg/mL)

SDS Information

(Solvent Safety Info. On Attached pg.)
CAS# OSHA PEL (TWA) LDSO

1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 48mg/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 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

Abundance

Abundance

27

Scan 232 (8.927 min): [BSB2]79005.D

250000 8.93

200000



50000 56

150000

40000

30000

100000

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-->

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).

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, 2025

Section II - Hazards Identification

P271	Use in ventilated area	GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
P302,332	If on skin, wash with soap and water	H315
		P280
		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 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.
If swallowed

Section V, FIREFIGHTING MEASURES

Suitable extinguishing media
Protective equipment for fire
Hazardous Decomposition products
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 (H ₂ O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

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. Exposure to this product may have serious adverse health effects including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. 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.

Section XVI. Misc. INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XV. REGULATORY INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water
ATA
Not dangerous goods
Proper shipping name: Water

Section XIV. TRANSPORT INFORMATION

Dispose with normal Laboratory Solvent Waste.

Section XIII. DISPOSAL CONSIDERATIONS

LC50 NA
EC50 NA

Section XII. ECOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

Section XI. TOXICOLOGICAL INFORMATION

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 X. STABILITY AND REACTIVITY

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Solubility in Water		Completely miscible	
Vapor Density (AIR = 1)		NA	(Butyl Acetate = 1)
0°C		NA	NA



Certified Reference Material CRM



Rec 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

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

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	0.05186	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 56

150000

100000

50000

Time-->

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00 65.00 70.00 75.00 80.00 85.00 90.00 100.00 110.00 120.00 130.00 140.00 150.00 160.00 170.00

- 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).



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

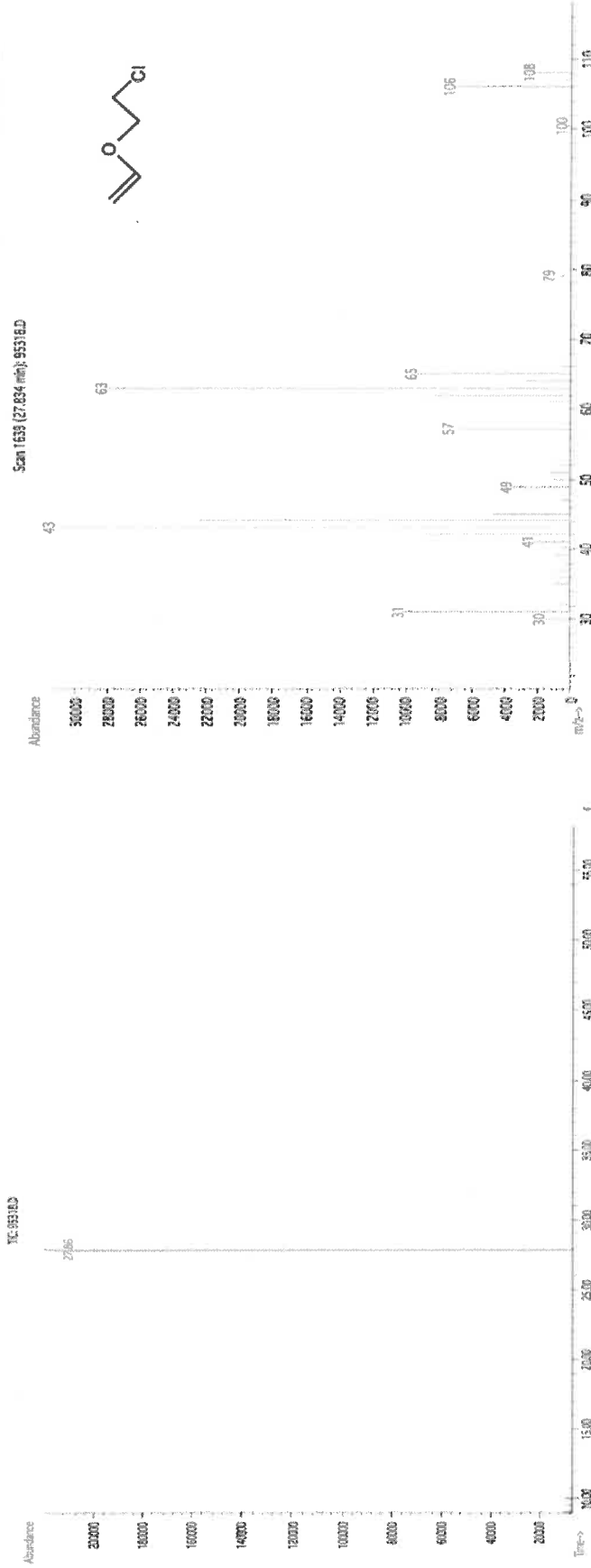
✓ 14630 to
✓ 14649

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)	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).

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: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

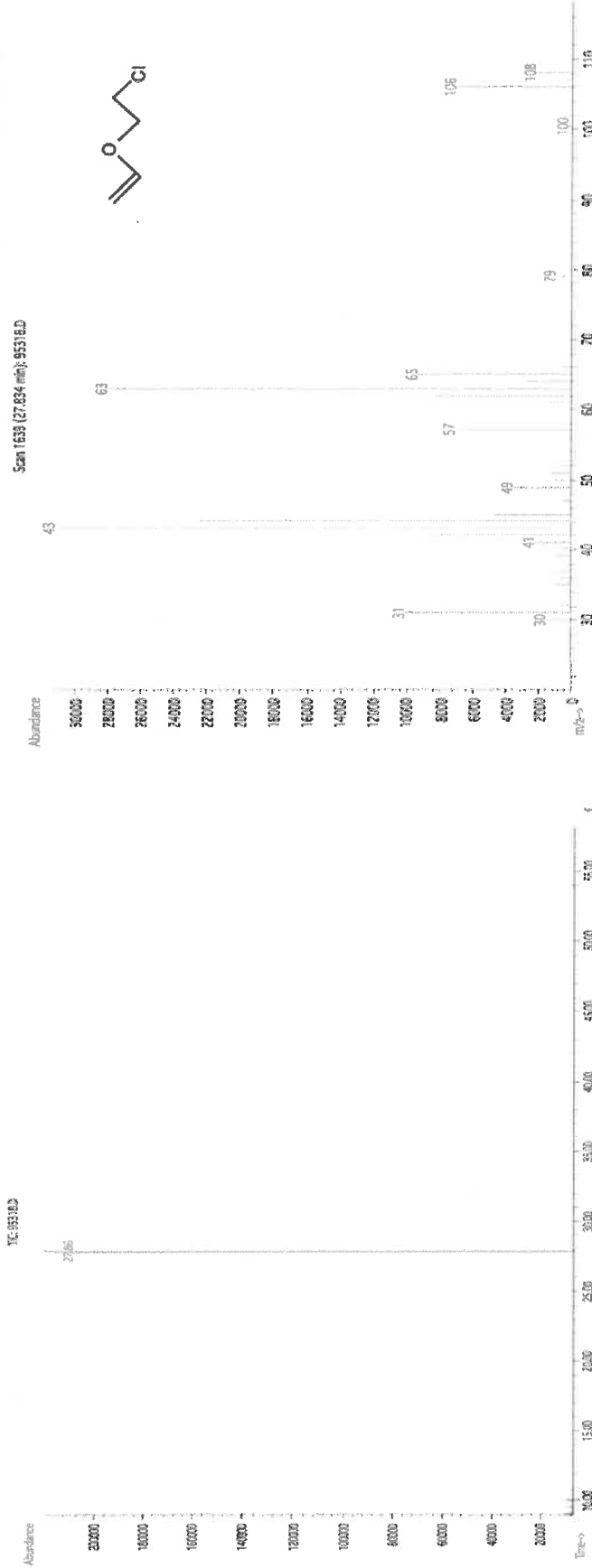
✓ 14630 to
✓ 14649

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)	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).

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 12/6/24
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

Weight(s) shown below were combined and diluted to (mL):

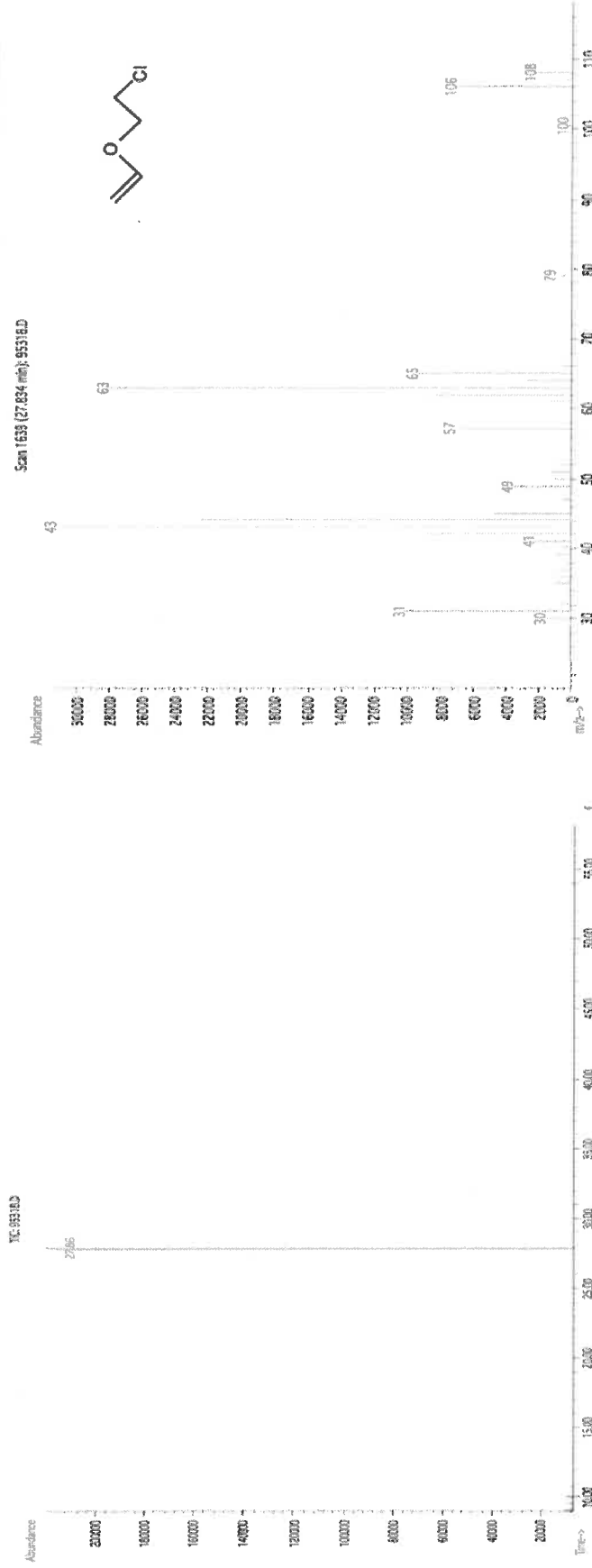
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By: Prashant Chauhan 120524 DATE
Reviewed By: Pedro L. Rentas 120524 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information	
										(Solvent Safety Info. On Attached pg.)	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

Weight(s) shown below were combined and diluted to (mL):

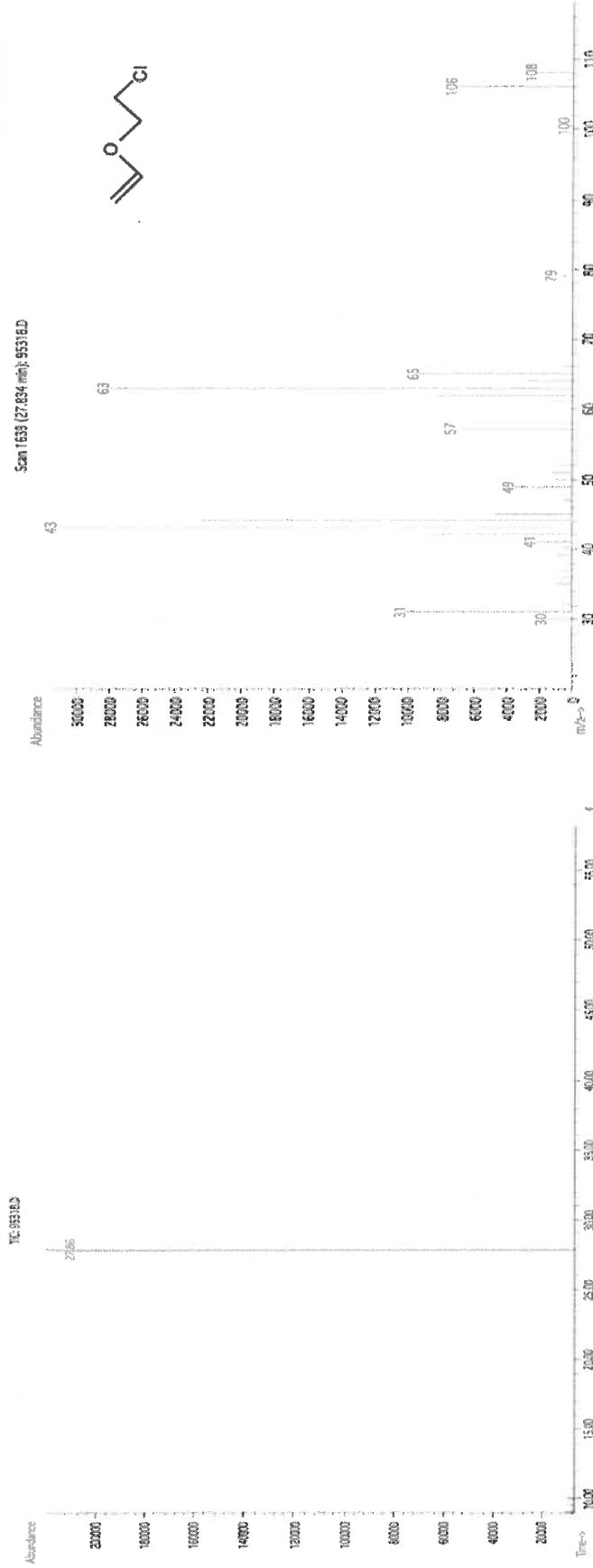
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By: Prashant Chauhan 120524
Reviewed By: Pedro L. Rentas 120524

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information	
										(Solvent Safety Info. On Attached pg.)	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).
* 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.
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Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

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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	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.



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Fax: 1-814-353-1309

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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:

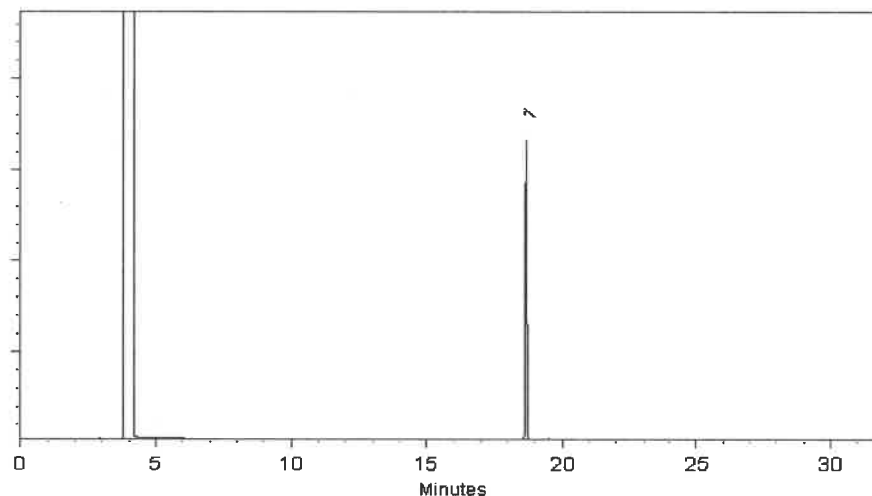
FID

Split Vent:

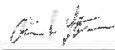
40 ml/min

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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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:

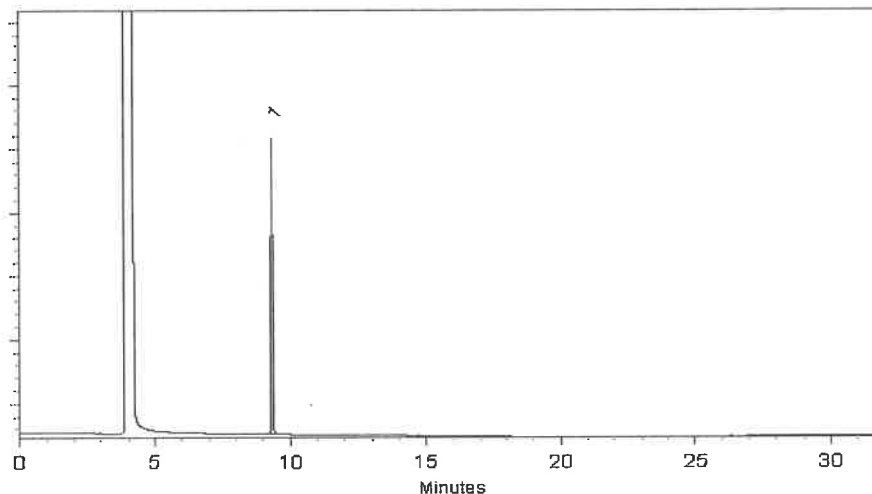
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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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:

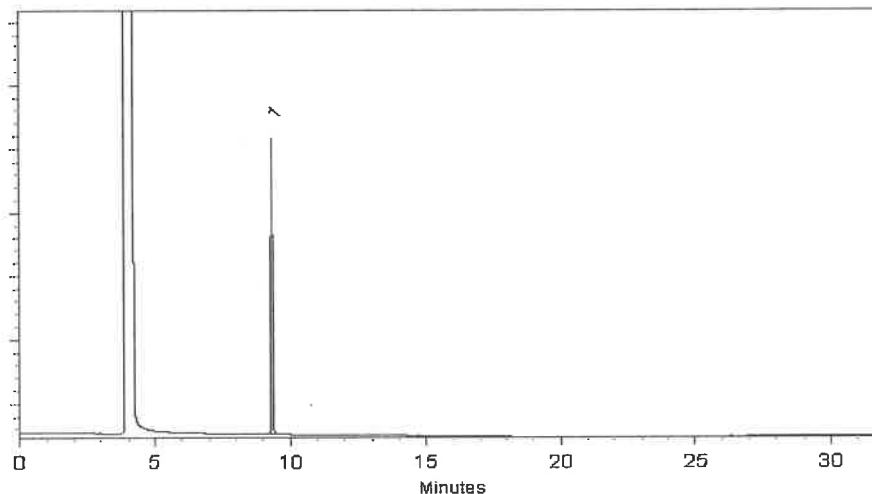
FID

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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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:

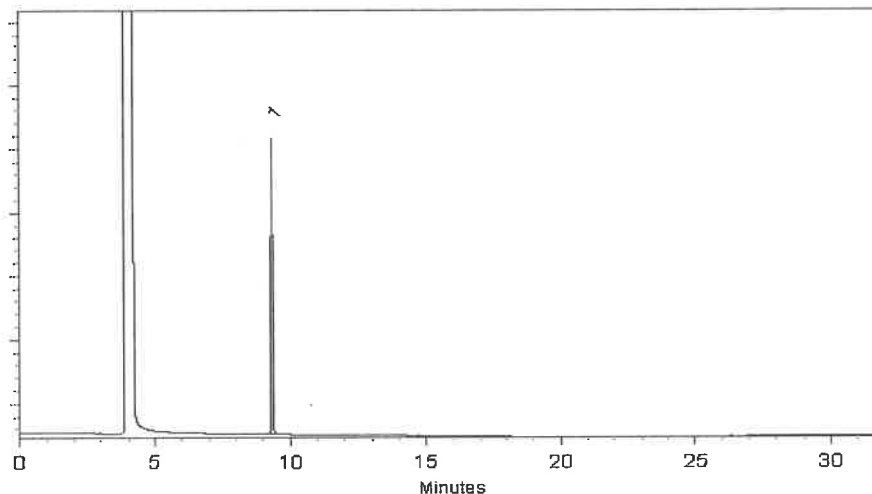
FID

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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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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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:

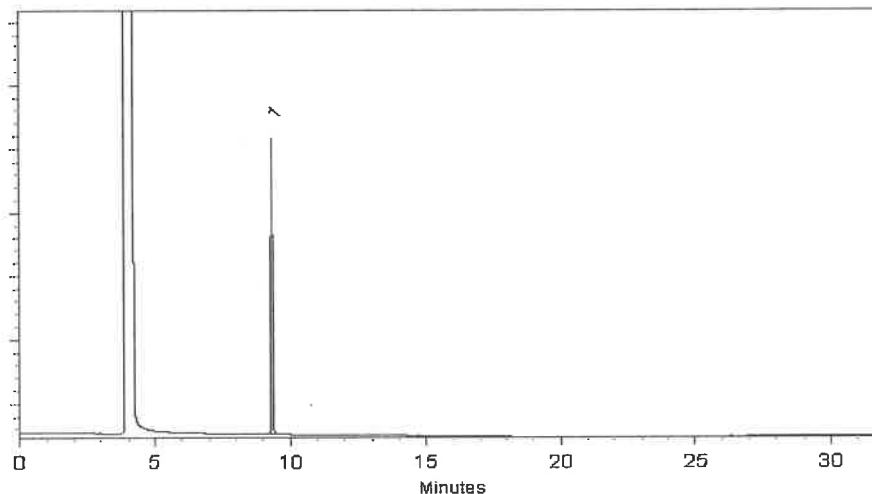
FID

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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- Purity values are rounded to the nearest whole number.

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Manufacturing Notes:

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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. : 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.
- 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. : 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:

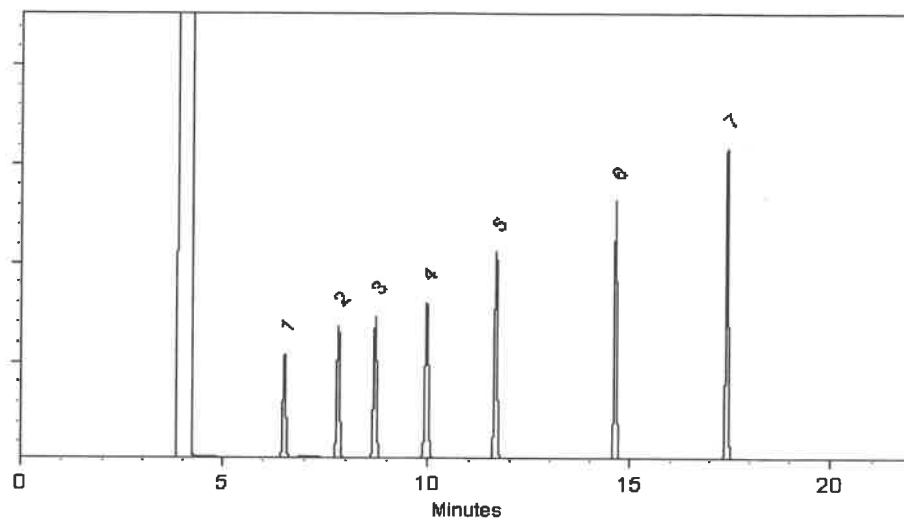
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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.
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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. : 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:

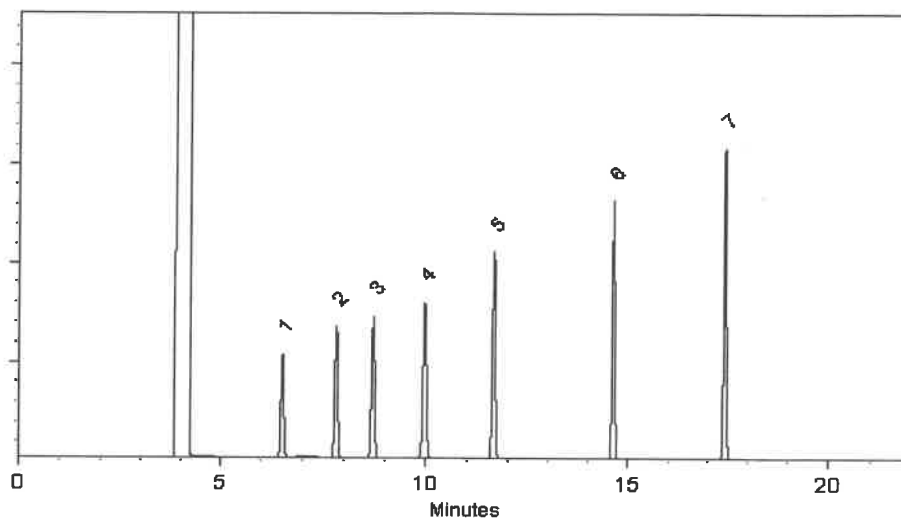
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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.



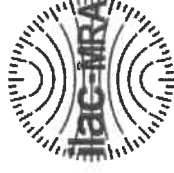
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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 - 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.
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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:

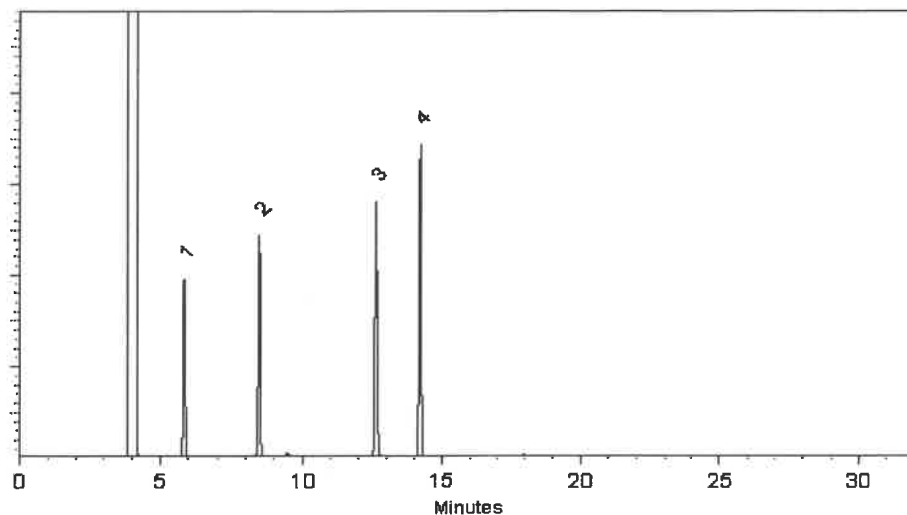
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

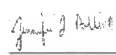


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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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CERTIFIED REFERENCE MATERIAL

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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:

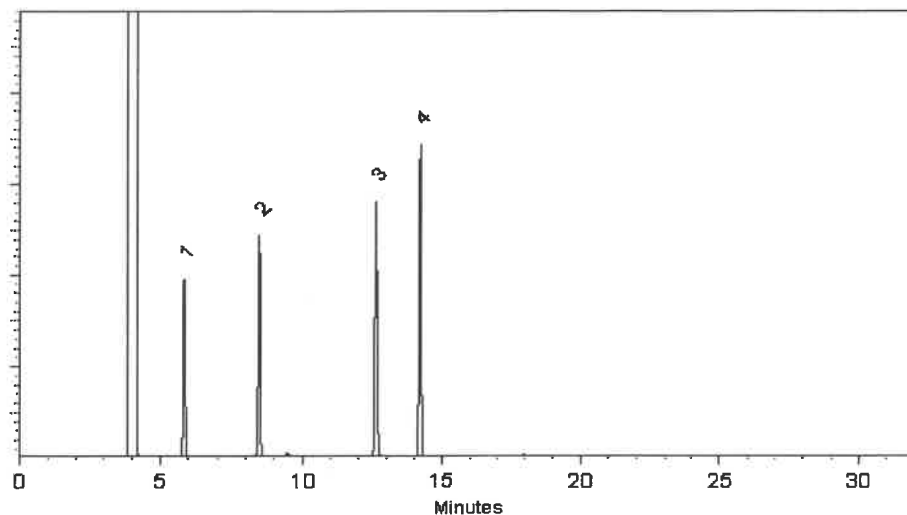
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

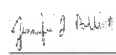


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.
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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.

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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V14697-to-14726



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:

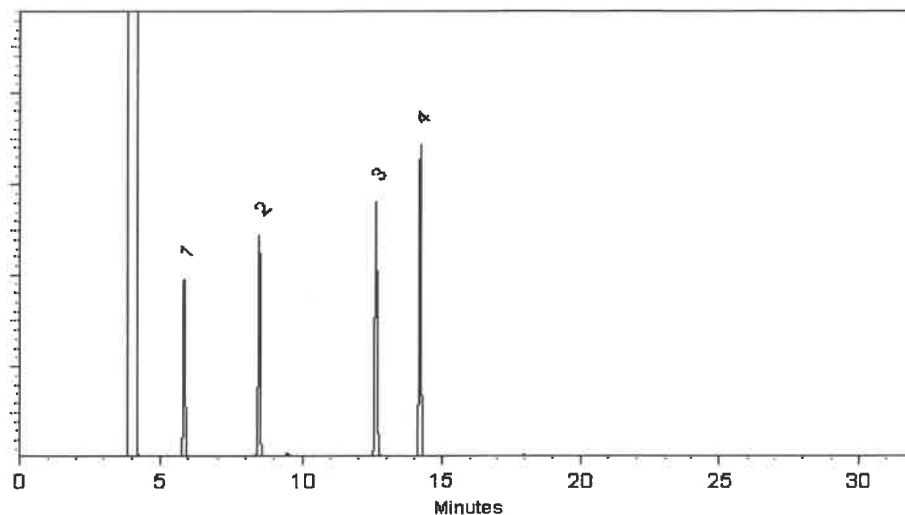
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

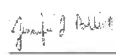


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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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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:

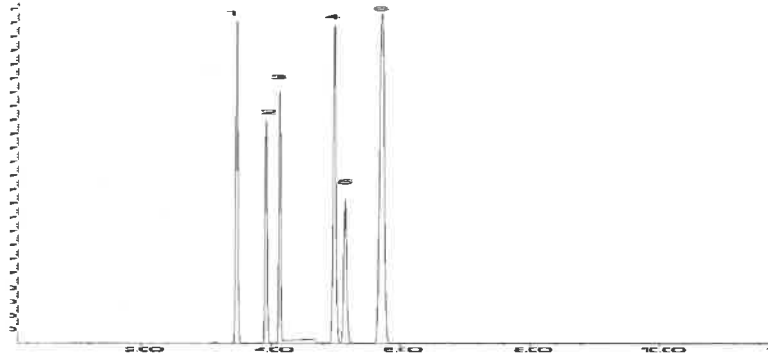
MSD

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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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:

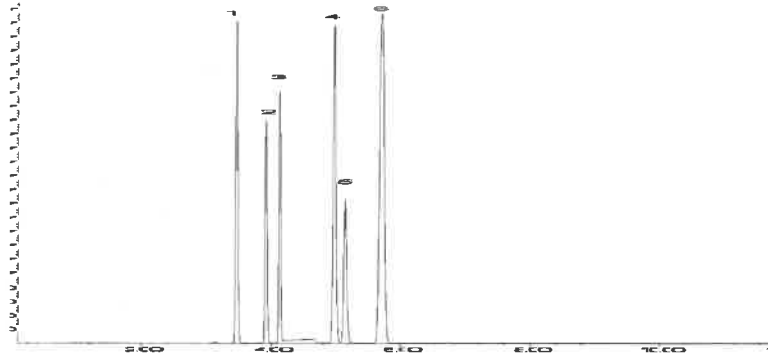
MSD

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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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:

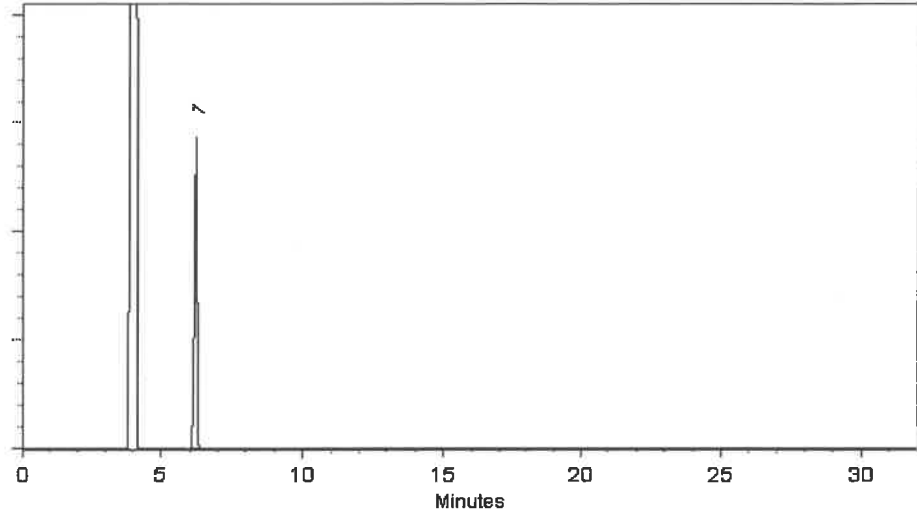
FID

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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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:

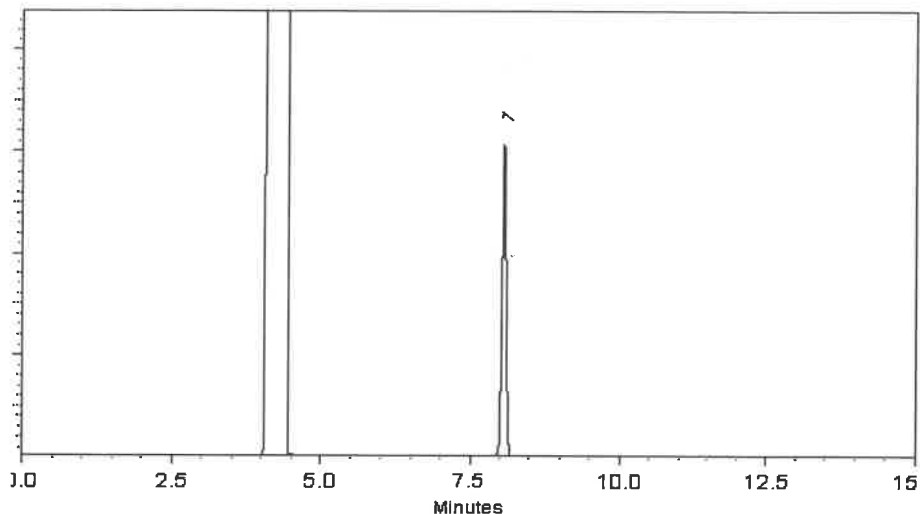
FID

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:

- 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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:

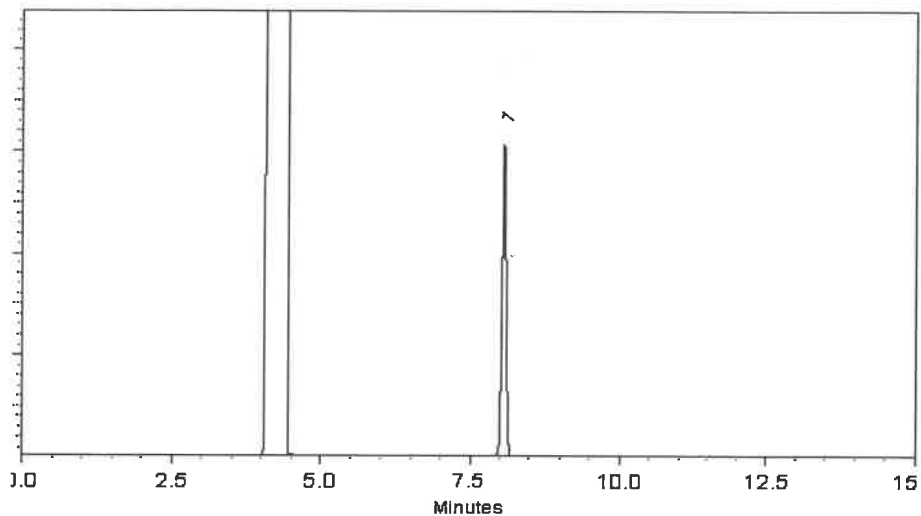
FID

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:

- 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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



V14883
V14884

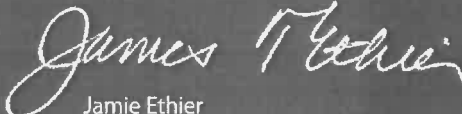
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Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087, U.S.A. Phone 610.386.1700
Page 1 of 1



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Geacp
ADDRESS: 8 CARRIAGE
CITY Shrewsbury STATE NJ ZIP: 07876
ATTENTION: GARY L
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Ave L
PROJECT NO.: LOCATION: NJ
PROJECT MANAGER: EL
e-mail: PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Geacp Inc PO#: ADDRESS: 8 CARRIAGE
CITY Shrewsbury STATE: NJ ZIP: 07876
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: 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 Hardcopy, add excel

TA VOCs
TAL Metals

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.	MW14	SW			3/12/25	1300	48	X	X								
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <u>[Signature]</u>	DATE/TIME: <u>11/10</u> <u>3/14/25</u>	RECEIVED BY: 1. <u>[Signature]</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>2.1°C</u> °C Comments:
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.	
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY: 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 : Q1576 GENV01

Order Date : 3/14/2025 11:28:00 AM

Project Mgr : nj reduce

Client Name : G Environmental

Project Name : Ave L

Report Type : ~~Level 1~~ Results

Client Contact : Gary Landis

Receive DateTime : 3/14/2025 11:10:00 AM

EDD Type : Excel NJ only

Invoice Name : G Environmental

Purchase Order :

Hard Copy Date :

Invoice Contact : Gary Landis

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1576-01	MW14	Water	03/12/2025	13:00	VOC-TCLVOA-10		8260-Low	10 Bus. Days	

Relinquished By : 

Date / Time : 3/14/25 1150

Received By : 

Date / Time : 3/14/25 11:50

Storage Area : VOA Refridgerator Room