

Cover Page

Order ID : Q1250

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q1250-01
Q1250-02
Q1250-03
Q1250-04
Q1250-05
Q1250-06
Q1250-07
Q1250-08
Q1250-09
Q1250-10
Q1250-11
Q1250-12

Client Sample Number

BP-VPB-192-TB-20250127
BP-VPB-192-GW-420-422
BP-VPB-192-GW-300-302
BP-VPB-192-GW-320-322
BP-VPB-192-GW-340-342
BP-VPB-192-GW-360-362
Q1250-06MS
Q1250-06MSD
BP-VPB-192-DUP-20250128
BP-VPB-192-GW-380-382
BP-VPB-192-GW-400-402
BP-VPB-192-GW-440-442

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

Signature : _____

Date: 2/11/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

DATA REPORTING QUALIFIERS- ORGANIC

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1250

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: PRIYANKA DAVE

Date: 02/11/2025

LAB CHRONICLE

OrderID:	Q1250	OrderDate:	1/31/2025 10:38:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	N31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1250-01	BP-VPB-192-TB-2025 0127	Water			01/27/25			01/30/25
			VOCMS Group1	8260-Low			02/10/25	
Q1250-02	BP-VPB-192-GW-420- 422	Water			01/29/25			01/30/25
			VOCMS Group1	8260-Low			02/10/25	
Q1250-03	BP-VPB-192-GW-300- 302	Water			01/27/25			01/30/25
			VOCMS Group1	8260-Low			02/10/25	
Q1250-04	BP-VPB-192-GW-320- 322	Water			01/27/25			01/30/25
			VOCMS Group1	8260-Low			02/10/25	
Q1250-05	BP-VPB-192-GW-340- 342	Water			01/27/25			01/30/25
			VOCMS Group1	8260-Low			02/10/25	
Q1250-06	BP-VPB-192-GW-360- 362	Water			01/28/25			01/30/25
			VOCMS Group1	8260-Low			02/10/25	
Q1250-10	BP-VPB-192-GW-380- 382	Water			01/28/25			01/30/25
			VOCMS Group1	8260-Low			02/10/25	
Q1250-11	BP-VPB-192-GW-400- 402	Water			01/28/25			01/30/25
			VOCMS Group1	8260-Low			02/10/25	
Q1250-12	BP-VPB-192-GW-440- 442	Water			01/29/25			01/30/25
			VOCMS Group1	8260-Low			02/10/25	

Hit Summary Sheet
SW-846

SDG No.: Q1250
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID: Q1250-01	BP-VPB-192-TB-20250127 BP-VPB-192-TB-20 Water	Acetone		2.90	J	1.40	3.80	5.00	ug/L
		Total Voc :		2.90					
		Total Concentration:		2.90					
Client ID: Q1250-02	BP-VPB-192-GW-420-422 BP-VPB-192-GW-4 Water	Acetone		4.80	J	1.40	3.80	5.00	ug/L
Q1250-02	BP-VPB-192-GW-4 Water	Carbon Disulfide		0.54	J	0.32	0.75	1.00	ug/L
		Total Voc :		5.34					
		Total Concentration:		5.34					
Client ID: Q1250-03	BP-VPB-192-GW-300-302 BP-VPB-192-GW-3 Water	Acetone		6.00		1.40	3.80	5.00	ug/L
Q1250-03	BP-VPB-192-GW-3 Water	Carbon Disulfide		0.36	J	0.32	0.75	1.00	ug/L
		Total Voc :		6.36					
		Total Concentration:		6.36					
Client ID: Q1250-04	BP-VPB-192-GW-320-322 BP-VPB-192-GW-3 Water	Acetone		8.60		1.40	3.80	5.00	ug/L
Q1250-04	BP-VPB-192-GW-3 Water	Carbon Disulfide		0.51	J	0.32	0.75	1.00	ug/L
		Total Voc :		9.11					
		Total Concentration:		9.11					
Client ID: Q1250-05	BP-VPB-192-GW-340-342 BP-VPB-192-GW-3 Water	Acetone		8.70		1.40	3.80	5.00	ug/L
Q1250-05	BP-VPB-192-GW-3 Water	Carbon Disulfide		0.81	J	0.32	0.75	1.00	ug/L
		Total Voc :		9.51					
		Total Concentration:		9.51					
Client ID: Q1250-06	BP-VPB-192-GW-360-362 BP-VPB-192-GW-3 Water	Acetone		4.80	J	1.40	3.80	5.00	ug/L
		Total Voc :		4.80					
		Total Concentration:		4.80					
Client ID: Q1250-10	BP-VPB-192-GW-380-382 BP-VPB-192-GW-3 Water	Acetone		7.50		1.40	3.80	5.00	ug/L
Q1250-10	BP-VPB-192-GW-3 Water	Carbon Disulfide		0.86	J	0.32	0.75	1.00	ug/L
		Total Voc :		8.36					
		Total Concentration:		8.36					
Client ID: Q1250-11	BP-VPB-192-GW-400-402 BP-VPB-192-GW-4 Water	Acetone		12.8		1.40	3.80	5.00	ug/L
Q1250-11	BP-VPB-192-GW-4 Water	Carbon Disulfide		0.34	J	0.32	0.75	1.00	ug/L
		Total Voc :		13.1					
		Total Concentration:		13.1					
Client ID: Q1250-12	BP-VPB-192-GW-440-442 BP-VPB-192-GW-4 Water	Acetone		11.0		1.40	3.80	5.00	ug/L
Q1250-12	BP-VPB-192-GW-4 Water	Carbon Disulfide		0.45	J	0.32	0.75	1.00	ug/L

Hit Summary Sheet
SW-846

SDG No.: Q1250

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Total Voc :				11.4					
Total Concentration:				11.4					



QC SUMMARY

Surrogate Summary

SDG No.: **Q1250**

Client: **Tetra Tech NUS, Inc.**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1250-01	BP-VPB-192-TB-20250127	1,2-Dichloroethane-d4	50	53.0	106	81	118
		Dibromofluoromethane	50	49.5	99	80	119
		Toluene-d8	50	50.2	100	89	112
		4-Bromofluorobenzene	50	50.6	101	85	114
Q1250-02	BP-VPB-192-GW-420-422	1,2-Dichloroethane-d4	50	53.1	106	81	118
		Dibromofluoromethane	50	51.2	102	80	119
		Toluene-d8	50	50.9	102	89	112
		4-Bromofluorobenzene	50	51.7	103	85	114
Q1250-03	BP-VPB-192-GW-300-302	1,2-Dichloroethane-d4	50	53.2	106	81	118
		Dibromofluoromethane	50	51.1	102	80	119
		Toluene-d8	50	50.5	101	89	112
		4-Bromofluorobenzene	50	51.8	104	85	114
Q1250-04	BP-VPB-192-GW-320-322	1,2-Dichloroethane-d4	50	52.3	105	81	118
		Dibromofluoromethane	50	49.7	99	80	119
		Toluene-d8	50	50.5	101	89	112
		4-Bromofluorobenzene	50	51.9	104	85	114
Q1250-05	BP-VPB-192-GW-340-342	1,2-Dichloroethane-d4	50	52.3	105	81	118
		Dibromofluoromethane	50	51.1	102	80	119
		Toluene-d8	50	49.7	99	89	112
		4-Bromofluorobenzene	50	52.4	105	85	114
Q1250-06	BP-VPB-192-GW-360-362	1,2-Dichloroethane-d4	50	52.6	105	81	118
		Dibromofluoromethane	50	51.2	102	80	119
		Toluene-d8	50	51.0	102	89	112
		4-Bromofluorobenzene	50	53.1	106	85	114
Q1250-07MS	BP-VPB-192-GW-360-362MS	1,2-Dichloroethane-d4	50	50.8	102	81	118
		Dibromofluoromethane	50	49.0	98	80	119
		Toluene-d8	50	49.5	99	89	112
		4-Bromofluorobenzene	50	49.3	99	85	114
Q1250-08MSD	BP-VPB-192-GW-360-362MSD	1,2-Dichloroethane-d4	50	50.2	100	81	118
		Dibromofluoromethane	50	50.4	101	80	119
		Toluene-d8	50	51.0	102	89	112
		4-Bromofluorobenzene	50	51.6	103	85	114
Q1250-10	BP-VPB-192-GW-380-382	1,2-Dichloroethane-d4	50	53.8	108	81	118
		Dibromofluoromethane	50	51.0	102	80	119
		Toluene-d8	50	50.9	102	89	112
		4-Bromofluorobenzene	50	52.0	104	85	114
Q1250-11	BP-VPB-192-GW-400-402	1,2-Dichloroethane-d4	50	53.9	108	81	118
		Dibromofluoromethane	50	51.3	103	80	119
		Toluene-d8	50	51.0	102	89	112
		4-Bromofluorobenzene	50	53.5	107	85	114
Q1250-12	BP-VPB-192-GW-440-442	1,2-Dichloroethane-d4	50	52.9	106	81	118
		Dibromofluoromethane	50	51.0	102	80	119
		Toluene-d8	50	50.2	100	89	112
		4-Bromofluorobenzene	50	51.0	102	85	114
VX0210WBL01	VX0210WBL01	1,2-Dichloroethane-d4	50	55.5	111	81	118
		Dibromofluoromethane	50	49.8	100	80	119
		Toluene-d8	50	50.5	101	89	112
		4-Bromofluorobenzene	50	51.2	102	85	114
VX0210WBS01	VX0210WBS01	1,2-Dichloroethane-d4	50	46.8	94	81	118
		Dibromofluoromethane	50	46.6	93	80	119

Surrogate Summary

SDG No.: Q1250

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
VX0210WBS01	VX0210WBS01	Toluene-d8	50	47.0	94	89	112
		4-Bromofluorobenzene	50	47.2	94	85	114

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1250

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample	Result	Units	Rec		RPD	RPD	Limits		RPD
		Result			Qual	RPD		Qual	Low	High	
Lab Sample ID :	Q1250-07MS	Client Sample ID :	BP-VPB-192-GW-360-362MS					Datafile :	VX044889.D		
Chloromethane	50	0	46.2	ug/L	92				50	139	
Vinyl chloride	50	0	45.7	ug/L	91				58	137	
Bromomethane	50	0	47.6	ug/L	95				53	141	
Chloroethane	50	0	52.8	ug/L	106				60	138	
Trichlorofluoromethane	50	0	47.0	ug/L	94				65	141	
1,1,2-Trichlorotrifluoroethane	50	0	47.3	ug/L	95				70	136	
1,1-Dichloroethene	50	0	46.3	ug/L	93				71	131	
Acetone	250	4.80	250	ug/L	98				39	160	
Carbon disulfide	50	0	45.8	ug/L	92				64	133	
Methyl tert-butyl Ether	50	0	47.7	ug/L	95				71	124	
Methylene Chloride	50	0	47.0	ug/L	94				74	124	
trans-1,2-Dichloroethene	50	0	47.8	ug/L	96				75	124	
1,1-Dichloroethane	50	0	47.6	ug/L	95				77	125	
2-Butanone	250	0	250	ug/L	100				56	143	
Carbon Tetrachloride	50	0	45.0	ug/L	90				72	136	
cis-1,2-Dichloroethene	50	0	48.0	ug/L	96				78	123	
Chloroform	50	0	47.3	ug/L	95				79	124	
1,1,1-Trichloroethane	50	0	47.1	ug/L	94				74	131	
Methylcyclohexane	50	0	45.4	ug/L	91				72	132	
Benzene	50	0	46.4	ug/L	93				79	120	
1,2-Dichloroethane	50	0	47.6	ug/L	95				73	128	
Trichloroethene	50	0	45.6	ug/L	91				79	123	
1,2-Dichloropropane	50	0	46.7	ug/L	93				78	122	
Bromodichloromethane	50	0	47.7	ug/L	95				79	125	
4-Methyl-2-Pentanone	250	0	250	ug/L	100				67	130	
Toluene	50	0	47.4	ug/L	95				80	121	
t-1,3-Dichloropropene	50	0	47.0	ug/L	94				73	127	
cis-1,3-Dichloropropene	50	0	47.0	ug/L	94				75	124	
1,1,2-Trichloroethane	50	0	48.6	ug/L	97				80	119	
2-Hexanone	250	0	260	ug/L	104				57	139	
Dibromochloromethane	50	0	47.6	ug/L	95				74	126	
Tetrachloroethene	50	0	45.5	ug/L	91				74	129	
Chlorobenzene	50	0	46.6	ug/L	93				82	118	
Ethyl Benzene	50	0	47.0	ug/L	94				79	121	
m/p-Xylenes	100	0	93.5	ug/L	94				80	121	
o-Xylene	50	0	46.7	ug/L	93				78	122	
Styrene	50	0	47.9	ug/L	96				78	123	
Bromoform	50	0	47.4	ug/L	95				66	130	
Isopropylbenzene	50	0	47.0	ug/L	94				72	131	
1,1,2,2-Tetrachloroethane	50	0	47.1	ug/L	94				71	121	
1,3-Dichlorobenzene	50	0	46.0	ug/L	92				80	119	
1,4-Dichlorobenzene	50	0	45.2	ug/L	90				79	118	
1,2-Dichlorobenzene	50	0	47.5	ug/L	95				80	119	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1250

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Limits											
Parameter	Spike	Sample	Result	Units	Rec		RPD	RPD		RPD	
		Result			Qual	Qual		Low	High		
Lab Sample ID :	Q1250-08MSD	Client Sample ID :	BP-VPB-192-GW-360-362MSD					Datafile :	VX044890.D		
Chloromethane	50	0	48.9	ug/L	98		6		50	139	20
Vinyl chloride	50	0	47.9	ug/L	96		5		58	137	20
Bromomethane	50	0	50.2	ug/L	100		5		53	141	20
Chloroethane	50	0	52.3	ug/L	105		1		60	138	20
Trichlorofluoromethane	50	0	49.5	ug/L	99		5		65	141	20
1,1,2-Trichlorotrifluoroethane	50	0	49.6	ug/L	99		5		70	136	20
1,1-Dichloroethene	50	0	50.2	ug/L	100		8		71	131	20
Acetone	250	4.80	260	ug/L	102		4		39	160	20
Carbon disulfide	50	0	49.3	ug/L	99		7		64	133	20
Methyl tert-butyl Ether	50	0	51.1	ug/L	102		7		71	124	20
Methylene Chloride	50	0	50.3	ug/L	101		7		74	124	20
trans-1,2-Dichloroethene	50	0	50.8	ug/L	102		6		75	124	20
1,1-Dichloroethane	50	0	51.2	ug/L	102		7		77	125	20
2-Butanone	250	0	270	ug/L	108		8		56	143	20
Carbon Tetrachloride	50	0	50.5	ug/L	101		12		72	136	20
cis-1,2-Dichloroethene	50	0	50.7	ug/L	101		5		78	123	20
Chloroform	50	0	50.8	ug/L	102		7		79	124	20
1,1,1-Trichloroethane	50	0	51.0	ug/L	102		8		74	131	20
Methylcyclohexane	50	0	49.1	ug/L	98		8		72	132	20
Benzene	50	0	51.3	ug/L	103		10		79	120	20
1,2-Dichloroethane	50	0	51.8	ug/L	104		8		73	128	20
Trichloroethene	50	0	51.2	ug/L	102		12		79	123	20
1,2-Dichloropropane	50	0	51.2	ug/L	102		9		78	122	20
Bromodichloromethane	50	0	52.4	ug/L	105		9		79	125	20
4-Methyl-2-Pentanone	250	0	280	ug/L	112		11		67	130	20
Toluene	50	0	51.8	ug/L	104		9		80	121	20
t-1,3-Dichloropropene	50	0	51.8	ug/L	104		10		73	127	20
cis-1,3-Dichloropropene	50	0	52.5	ug/L	105		11		75	124	20
1,1,2-Trichloroethane	50	0	52.6	ug/L	105		8		80	119	20
2-Hexanone	250	0	280	ug/L	112		7		57	139	20
Dibromochloromethane	50	0	52.8	ug/L	106		10		74	126	20
Tetrachloroethene	50	0	48.5	ug/L	97		6		74	129	20
Chlorobenzene	50	0	50.5	ug/L	101		8		82	118	20
Ethyl Benzene	50	0	50.4	ug/L	101		7		79	121	20
m/p-Xylenes	100	0	100	ug/L	100		7		80	121	20
o-Xylene	50	0	50.4	ug/L	101		8		78	122	20
Styrene	50	0	52.6	ug/L	105		9		78	123	20
Bromoform	50	0	53.2	ug/L	106		12		66	130	20
Isopropylbenzene	50	0	50.6	ug/L	101		7		72	131	20
1,1,2,2-Tetrachloroethane	50	0	50.6	ug/L	101		7		71	121	20
1,3-Dichlorobenzene	50	0	49.9	ug/L	100		8		80	119	20
1,4-Dichlorobenzene	50	0	49.2	ug/L	98		8		79	118	20
1,2-Dichlorobenzene	50	0	51.7	ug/L	103		8		80	119	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1250

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VX044878.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0210WBS01	Chloromethane	20	19.2	ug/L	96			50	139	
	Vinyl chloride	20	18.2	ug/L	91			58	137	
	Bromomethane	20	19.8	ug/L	99			53	141	
	Chloroethane	20	22.6	ug/L	113			60	138	
	Trichlorofluoromethane	20	19.4	ug/L	97			65	141	
	1,1,2-Trichlorotrifluoroethane	20	20.5	ug/L	103			70	136	
	1,1-Dichloroethene	20	18.8	ug/L	94			71	131	
	Acetone	100	110	ug/L	110			39	160	
	Carbon disulfide	20	19.5	ug/L	98			64	133	
	Methyl tert-butyl Ether	20	19.6	ug/L	98			71	124	
	Methylene Chloride	20	19.3	ug/L	97			74	124	
	trans-1,2-Dichloroethene	20	19.6	ug/L	98			75	124	
	1,1-Dichloroethane	20	19.8	ug/L	99			77	125	
	2-Butanone	100	110	ug/L	110			56	143	
	Carbon Tetrachloride	20	19.8	ug/L	99			72	136	
	cis-1,2-Dichloroethene	20	20.0	ug/L	100			78	123	
	Chloroform	20	19.7	ug/L	99			79	124	
	1,1,1-Trichloroethane	20	19.6	ug/L	98			74	131	
	Methylcyclohexane	20	21.2	ug/L	106			72	132	
	Benzene	20	20.1	ug/L	101			79	120	
	1,2-Dichloroethane	20	20.4	ug/L	102			73	128	
	Trichloroethene	20	19.8	ug/L	99			79	123	
	1,2-Dichloropropane	20	19.9	ug/L	100			78	122	
	Bromodichloromethane	20	20.1	ug/L	101			79	125	
	4-Methyl-2-Pentanone	100	110	ug/L	110			67	130	
	Toluene	20	20.1	ug/L	101			80	121	
	t-1,3-Dichloropropene	20	19.8	ug/L	99			73	127	
	cis-1,3-Dichloropropene	20	20.3	ug/L	102			75	124	
	1,1,2-Trichloroethane	20	19.9	ug/L	100			80	119	
	2-Hexanone	100	110	ug/L	110			57	139	
	Dibromochloromethane	20	19.9	ug/L	100			74	126	
	Tetrachloroethene	20	20.8	ug/L	104			74	129	
	Chlorobenzene	20	20.7	ug/L	104			82	118	
	Ethyl Benzene	20	20.5	ug/L	103			79	121	
	m/p-Xylenes	40	42.0	ug/L	105			80	121	
	o-Xylene	20	20.6	ug/L	103			78	122	
	Styrene	20	21.0	ug/L	105			78	123	
	Bromoform	20	20.5	ug/L	103			66	130	
	Isopropylbenzene	20	19.8	ug/L	99			72	131	
	1,1,2,2-Tetrachloroethane	20	19.9	ug/L	100			71	121	
	1,3-Dichlorobenzene	20	19.6	ug/L	98			80	119	
	1,4-Dichlorobenzene	20	19.9	ug/L	100			79	118	
	1,2-Dichlorobenzene	20	20.3	ug/L	102			80	119	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0210WBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1250

SAS No.: Q1250 SDG NO.: Q1250

Lab File ID: VX044877.D

Lab Sample ID: VX0210WBL01

Date Analyzed: 02/10/2025

Time Analyzed: 14:06

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
VX0210WBS01	VX0210WBS01	VX044878.D	02/10/2025
BP-VPB-192-GW-420-422	Q1250-02	VX044880.D	02/10/2025
BP-VPB-192-TB-20250127	Q1250-01	VX044881.D	02/10/2025
BP-VPB-192-GW-300-302	Q1250-03	VX044882.D	02/10/2025
BP-VPB-192-GW-320-322	Q1250-04	VX044883.D	02/10/2025
BP-VPB-192-GW-340-342	Q1250-05	VX044884.D	02/10/2025
BP-VPB-192-GW-380-382	Q1250-10	VX044885.D	02/10/2025
BP-VPB-192-GW-400-402	Q1250-11	VX044886.D	02/10/2025
BP-VPB-192-GW-440-442	Q1250-12	VX044887.D	02/10/2025
BP-VPB-192-GW-360-362	Q1250-06	VX044888.D	02/10/2025
BP-VPB-192-GW-360-362MS	Q1250-07MS	VX044889.D	02/10/2025
BP-VPB-192-GW-360-362MSD	Q1250-08MSD	VX044890.D	02/10/2025

COMMENTS: _____



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1250 SAS No.: Q1250 SDG NO.: Q1250
Lab File ID: VX044867.D BFB Injection Date: 02/10/2025
Instrument ID: MSVOA_X BFB Injection Time: 09:35
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	19.7
75	30.0 - 60.0% of mass 95	52.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.5 (0.6) 1
174	50.0 - 100.0% of mass 95	75.9
175	5.0 - 9.0% of mass 174	5.7 (7.5) 1
176	95.0 - 101.0% of mass 174	72.6 (95.7) 1
177	5.0 - 9.0% of mass 176	4.5 (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	VX044868.D	02/10/2025	10:25
VSTDIC005	VSTDIC005	VX044869.D	02/10/2025	10:48
VSTDIC020	VSTDIC020	VX044870.D	02/10/2025	11:11
VSTDIC050	VSTDIC050	VX044871.D	02/10/2025	11:34
VSTDIC100	VSTDIC100	VX044872.D	02/10/2025	12:05
VSTDIC150	VSTDIC150	VX044873.D	02/10/2025	12:28
VX0210WBL01	VX0210WBL01	VX044877.D	02/10/2025	14:06
VX0210WBS01	VX0210WBS01	VX044878.D	02/10/2025	14:29
BP-VPB-192-GW-420-422	Q1250-02	VX044880.D	02/10/2025	15:18
BP-VPB-192-TB-20250127	Q1250-01	VX044881.D	02/10/2025	15:41
BP-VPB-192-GW-300-302	Q1250-03	VX044882.D	02/10/2025	16:04
BP-VPB-192-GW-320-322	Q1250-04	VX044883.D	02/10/2025	16:27
BP-VPB-192-GW-340-342	Q1250-05	VX044884.D	02/10/2025	16:51
BP-VPB-192-GW-380-382	Q1250-10	VX044885.D	02/10/2025	17:14
BP-VPB-192-GW-400-402	Q1250-11	VX044886.D	02/10/2025	17:37
BP-VPB-192-GW-440-442	Q1250-12	VX044887.D	02/10/2025	18:00
BP-VPB-192-GW-360-362	Q1250-06	VX044888.D	02/10/2025	18:23
BP-VPB-192-GW-360-362MS	Q1250-07MS	VX044889.D	02/10/2025	18:46



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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1250 SAS No.: Q1250 SDG NO.: Q1250
Lab File ID: VX044867.D BFB Injection Date: 02/10/2025
Instrument ID: MSVOA_X BFB Injection Time: 09:35
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	19.7
75	30.0 - 60.0% of mass 95	52.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.5 (0.6) 1
174	50.0 - 100.0% of mass 95	75.9
175	5.0 - 9.0% of mass 174	5.7 (7.5) 1
176	95.0 - 101.0% of mass 174	72.6 (95.7) 1
177	5.0 - 9.0% of mass 176	4.5 (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
BP-VPB-192-GW-360-362MSD	Q1250-08MSD	VX044890.D	02/10/2025	19:09
VSTDCCC050EC	VSTDCCC050	VX044891.D	02/10/2025	19:32

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1250 SAS No.: Q1250 SDG NO.: Q1250
Lab File ID: VX044871.D Date Analyzed: 02/10/2025
Instrument ID: MSVOA_X Time Analyzed: 11:34
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	127984	5.54	233736	6.76	204751	10.05
UPPER LIMIT	255968	6.043	467472	7.257	409502	10.549
LOWER LIMIT	63992	5.043	116868	6.257	102376	9.549
EPA SAMPLE NO.						
BP-VPB-192-TB-20250127	92731	5.54	189692	6.76	170630	10.05
BP-VPB-192-GW-420-422	96890	5.55	196670	6.76	180490	10.05
BP-VPB-192-GW-300-302	99257	5.55	200954	6.76	183816	10.05
BP-VPB-192-GW-320-322	96132	5.55	194678	6.76	175107	10.05
BP-VPB-192-GW-340-342	96963	5.54	193723	6.76	175745	10.05
BP-VPB-192-GW-360-362	93911	5.54	187948	6.76	173877	10.05
BP-VPB-192-GW-360-362MS	123128	5.55	231125	6.76	204212	10.05
BP-VPB-192-GW-360-362MSD	113791	5.54	209107	6.76	187126	10.05
BP-VPB-192-GW-380-382	98000	5.54	197272	6.76	182089	10.05
BP-VPB-192-GW-400-402	94362	5.55	191816	6.76	178953	10.05
BP-VPB-192-GW-440-442	91120	5.54	183168	6.76	166878	10.05
VX0210WBL01	95840	5.54	200206	6.76	182254	10.05
VX0210WBS01	143675	5.54	262165	6.76	224717	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: TETR06
Lab Code: CHEM Case No.: Q1250 SAS No.: Q1250 SDG NO.: Q1250
Lab File ID: VX044871.D Date Analyzed: 02/10/2025
Instrument ID: MSVOA_X Time Analyzed: 11:34
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	92648	12.018				
UPPER LIMIT	185296	12.518				
LOWER LIMIT	46324	11.518				
EPA SAMPLE NO.						
BP-VPB-192-TB-20250127	69234	12.02				
BP-VPB-192-GW-420-422	78413	12.02				
BP-VPB-192-GW-300-302	78851	12.02				
BP-VPB-192-GW-320-322	76744	12.02				
BP-VPB-192-GW-340-342	75903	12.02				
BP-VPB-192-GW-360-362	73228	12.02				
BP-VPB-192-GW-360-362MS	88501	12.02				
BP-VPB-192-GW-360-362MSD	83002	12.02				
BP-VPB-192-GW-380-382	77317	12.02				
BP-VPB-192-GW-400-402	76716	12.02				
BP-VPB-192-GW-440-442	68152	12.02				
VX0210WBL01	76715	12.02				
VX0210WBS01	103194	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:	Tetra Tech NUS, Inc.			Date Collected:	01/27/25	
Project:	CTO WE13			Date Received:	01/30/25	
Client Sample ID:	BP-VPB-192-TB-20250127			SDG No.:	Q1250	
Lab Sample ID:	Q1250-01			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044881.D	1		02/10/25 15:41	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	2.90	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/27/25	
Project:	CTO WE13		Date Received:	01/30/25	
Client Sample ID:	BP-VPB-192-TB-20250127		SDG No.:	Q1250	
Lab Sample ID:	Q1250-01		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044881.D	1		02/10/25 15:41	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.0		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	50.2		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.6		85 - 114		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	92700	5.544				
540-36-3	1,4-Difluorobenzene	190000	6.757				
3114-55-4	Chlorobenzene-d5	171000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	69200	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/27/25
Project:	CTO WE13	Date Received:	01/30/25
Client Sample ID:	BP-VPB-192-TB-20250127	SDG No.:	Q1250
Lab Sample ID:	Q1250-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044881.D	1		02/10/25 15:41	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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\VX021025\
 Data File : VX044881.D
 Acq On : 10 Feb 2025 15:41
 Operator : JC/MD
 Sample : Q1250-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-192-TB-20250127

Quant Time: Feb 11 06:06:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration

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

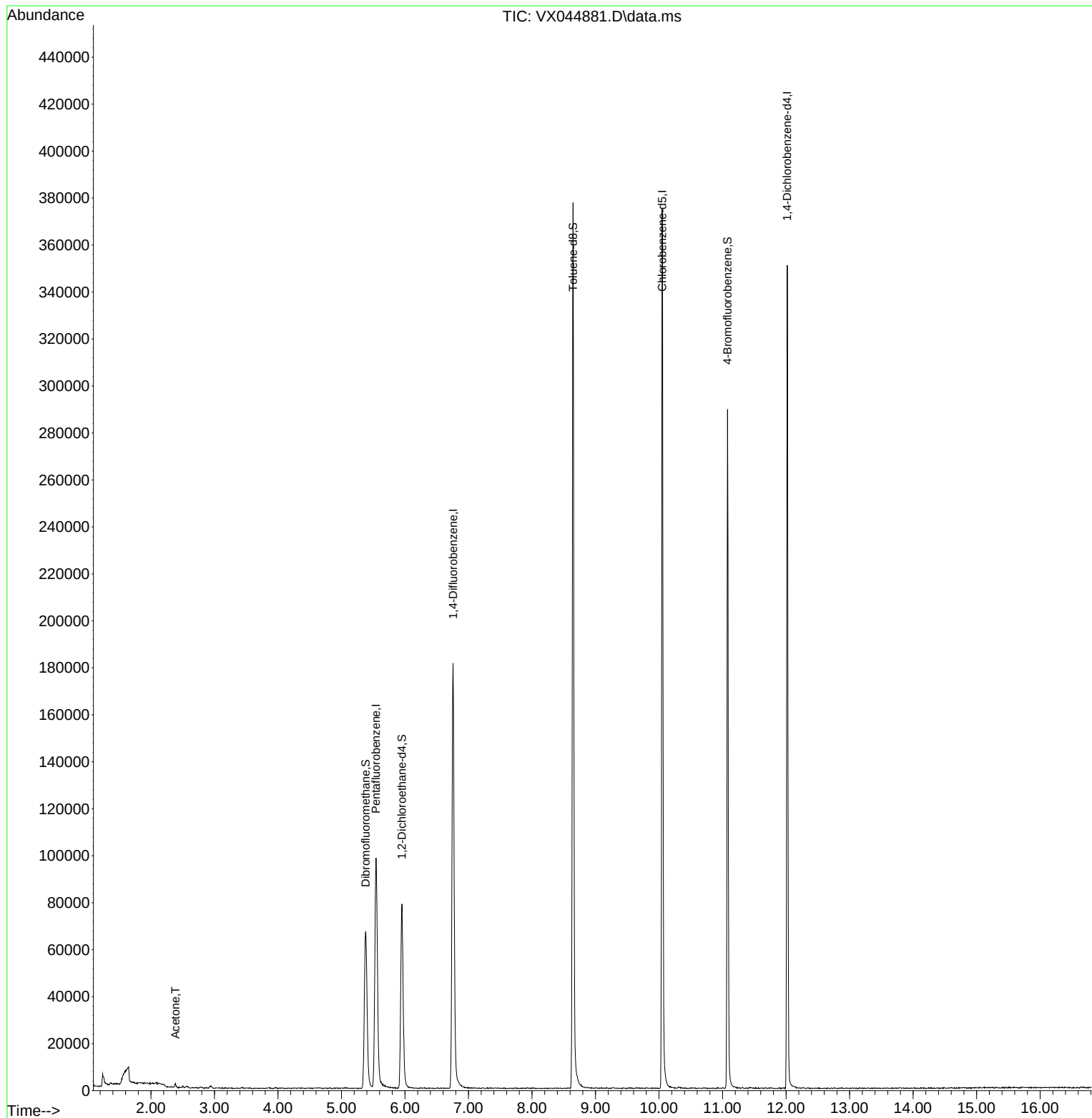
Internal Standards							
1) Pentafluorobenzene		5.544	168	92731	50.000	ug/l	0.00
34) 1,4-Difluorobenzene		6.757	114	189692	50.000	ug/l	0.00
63) Chlorobenzene-d5		10.049	117	170630	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4		12.018	152	69234	50.000	ug/l	0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4		5.952	65	71967	53.018	ug/l	0.00
Spiked Amount 50.000		Range 74 - 125		Recovery = 106.040%			
35) Dibromofluoromethane		5.379	113	61025	49.481	ug/l	0.00
Spiked Amount 50.000		Range 75 - 124		Recovery = 98.960%			
50) Toluene-d8		8.647	98	234221	50.223	ug/l	0.00
Spiked Amount 50.000		Range 86 - 113		Recovery = 100.440%			
62) 4-Bromofluorobenzene		11.079	95	79575	50.613	ug/l	0.00
Spiked Amount 50.000		Range 77 - 121		Recovery = 101.220%			
Target Compounds							Qvalue
16) Acetone		2.386	43	1601	2.934	ug/l	94

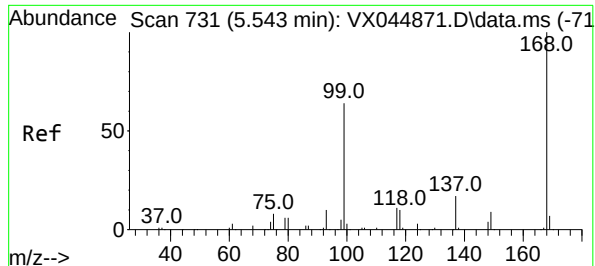
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044881.D
Acq On : 10 Feb 2025 15:41
Operator : JC/MD
Sample : Q1250-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-TB-20250127

Quant Time: Feb 11 06:06:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

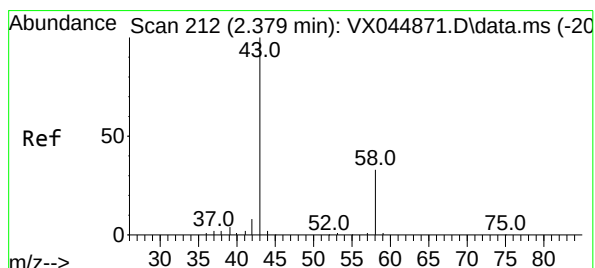
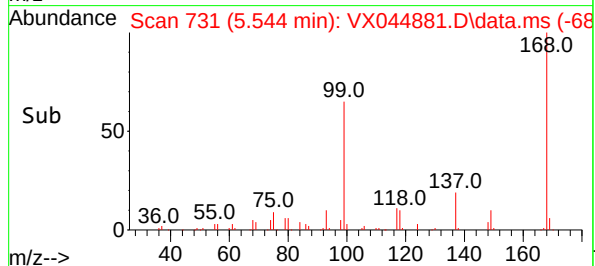
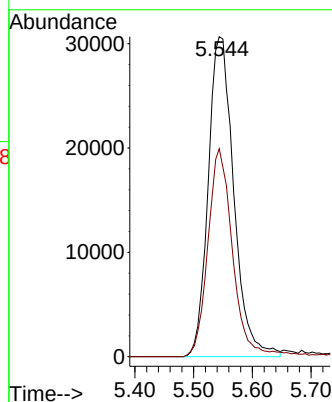
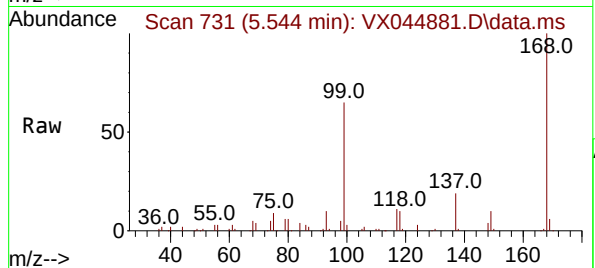




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. 0.001 min
Lab File: VX044881.D
Acq: 10 Feb 2025 15:41

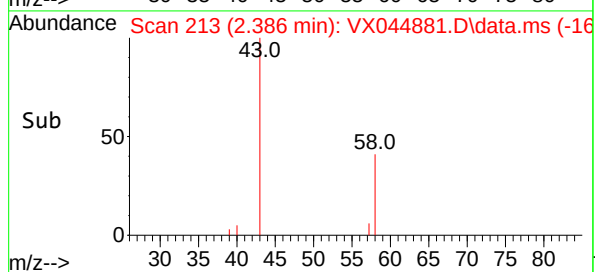
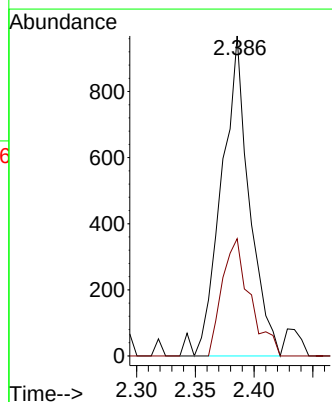
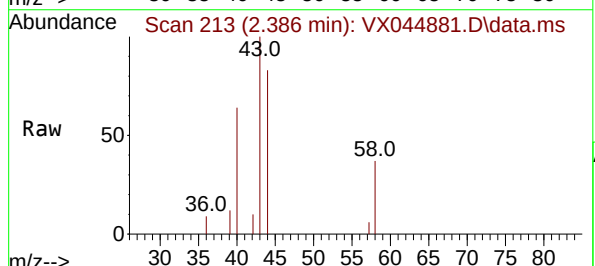
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-TB-20250127

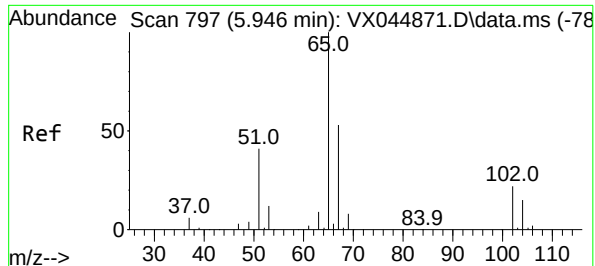
Tgt Ion:168 Resp: 92731
Ion Ratio Lower Upper
168 100
99 65.0 51.2 76.8



#16
Acetone
Concen: 2.934 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX044881.D
Acq: 10 Feb 2025 15:41

Tgt Ion: 43 Resp: 1601
Ion Ratio Lower Upper
43 100
58 36.7 26.5 39.7





#33

1,2-Dichloroethane-d4

Concen: 53.018 ug/l

RT: 5.952 min Scan# 79

Delta R.T. 0.006 min

Lab File: VX044881.D

Acq: 10 Feb 2025 15:41

Instrument :

MSVOA_X

ClientSampleId :

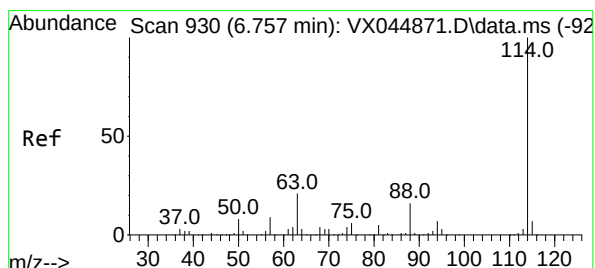
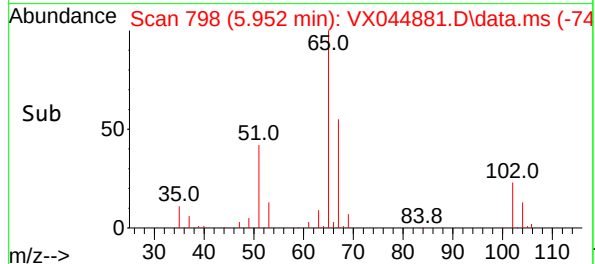
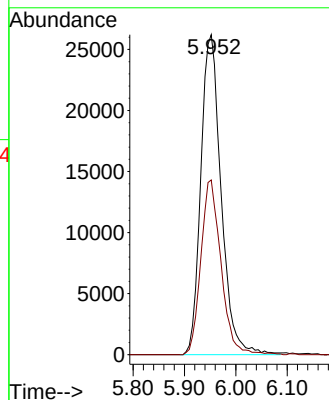
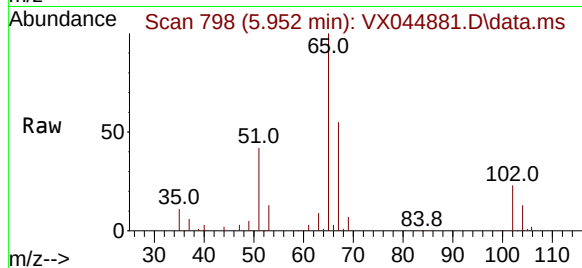
BP-VPB-192-TB-20250127

Tgt Ion: 65 Resp: 71967

Ion Ratio Lower Upper

65 100

67 54.1 0.0 108.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX044881.D

Acq: 10 Feb 2025 15:41

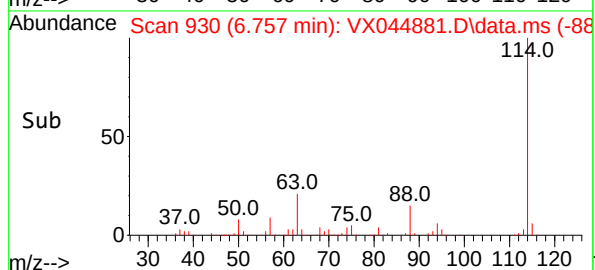
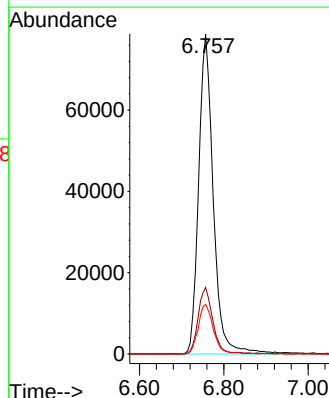
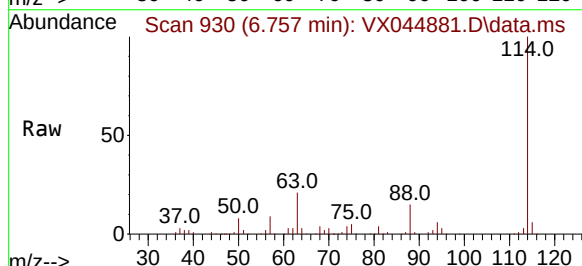
Tgt Ion: 114 Resp: 189692

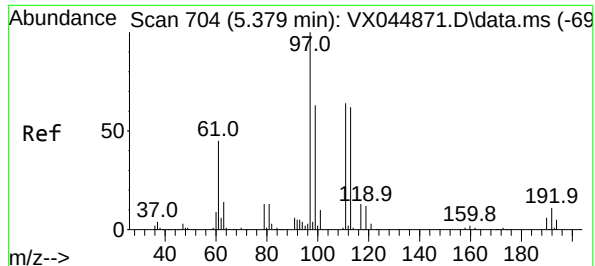
Ion Ratio Lower Upper

114 100

63 20.7 0.0 42.4

88 15.5 0.0 31.4





#35

Dibromofluoromethane

Concen: 49.481 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044881.D

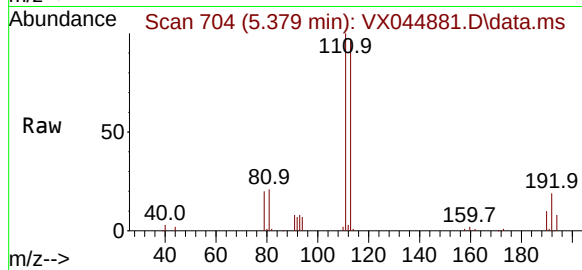
Acq: 10 Feb 2025 15:41

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-TB-20250127



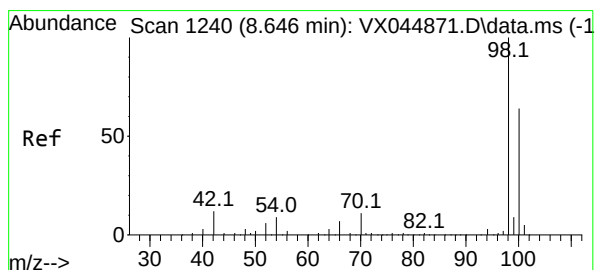
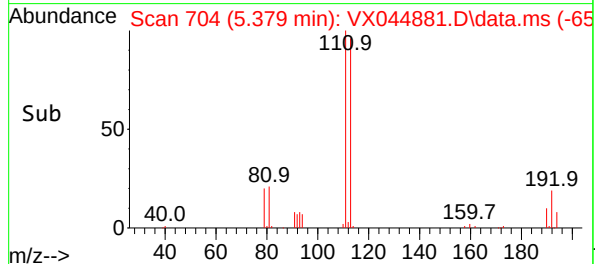
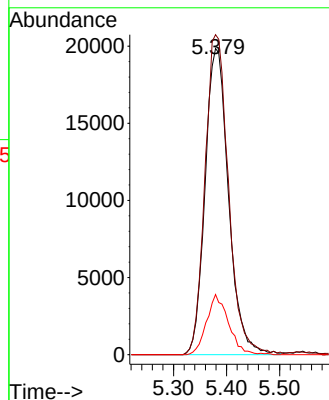
Tgt Ion:113 Resp: 61025

Ion Ratio Lower Upper

113 100

111 104.7 83.5 125.3

192 18.4 14.4 21.6



#50

Toluene-d8

Concen: 50.223 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044881.D

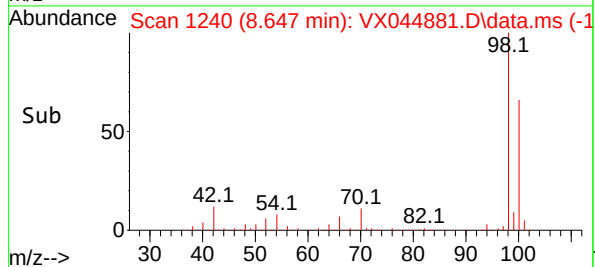
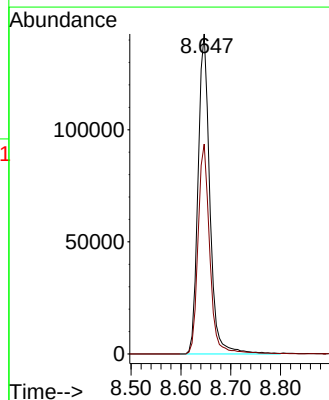
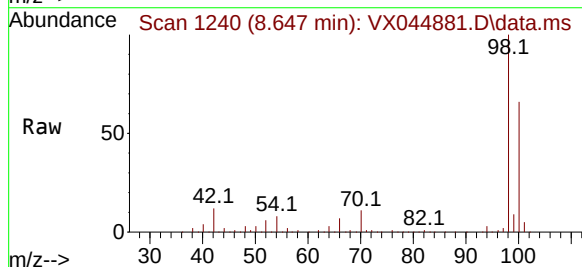
Acq: 10 Feb 2025 15:41

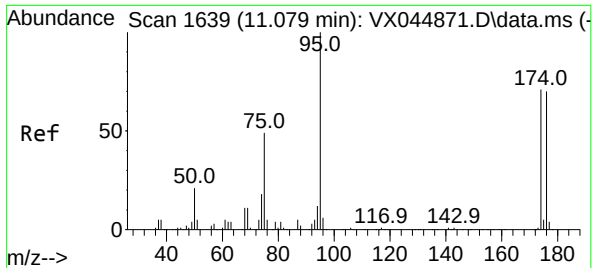
Tgt Ion: 98 Resp: 234221

Ion Ratio Lower Upper

98 100

100 65.3 52.7 79.1

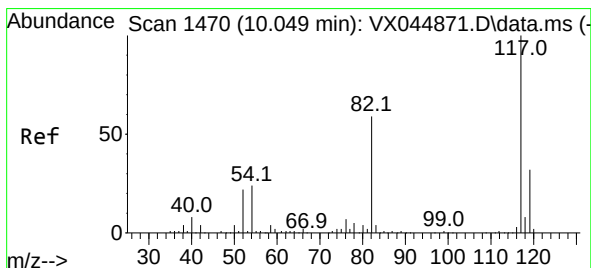
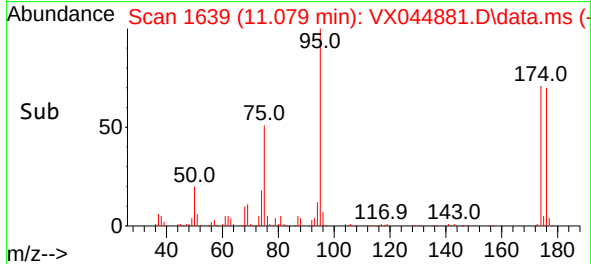
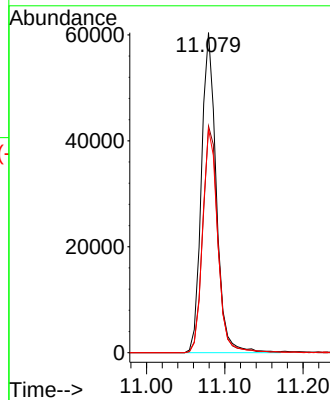
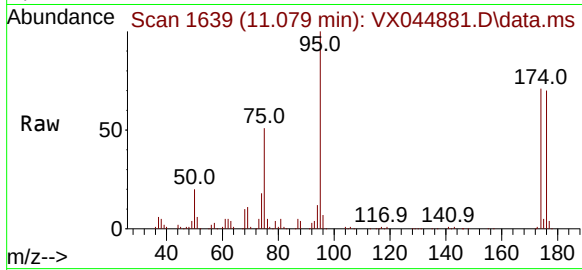




#62
4-Bromofluorobenzene
Concen: 50.613 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044881.D
Acq: 10 Feb 2025 15:41

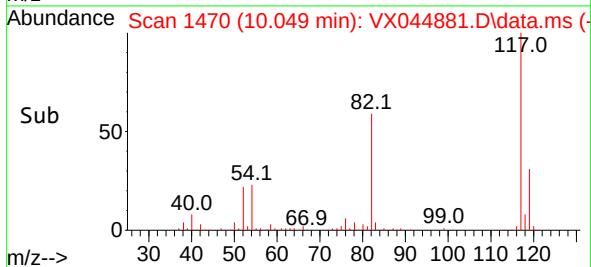
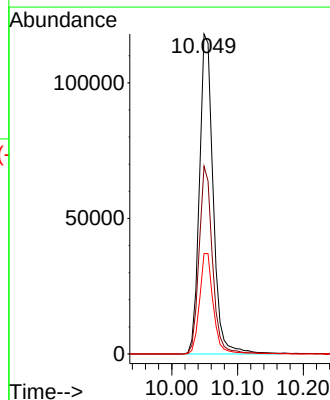
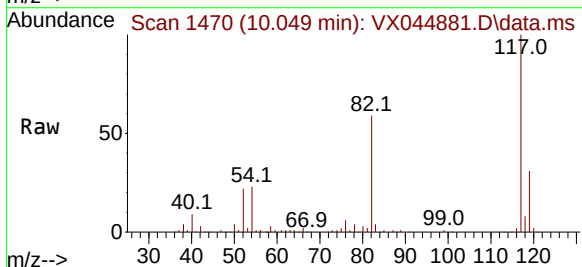
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-TB-20250127

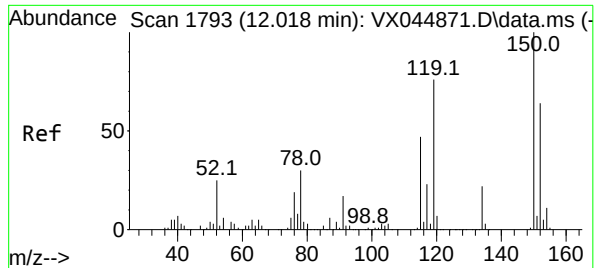
Tgt Ion:	95	Resp:	79575
Ion	Ratio	Lower	Upper
95	100		
174	72.0	0.0	142.6
176	71.3	0.0	141.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044881.D
Acq: 10 Feb 2025 15:41

Tgt Ion:	117	Resp:	170630
Ion	Ratio	Lower	Upper
117	100		
82	58.6	47.5	71.3
119	31.4	25.4	38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044881.D

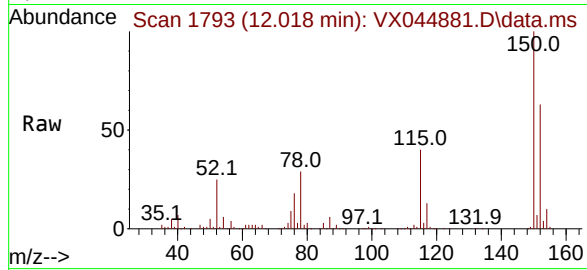
Acq: 10 Feb 2025 15:41

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-TB-20250127



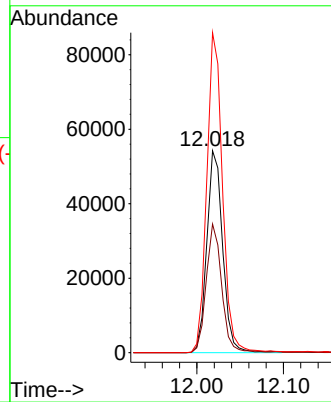
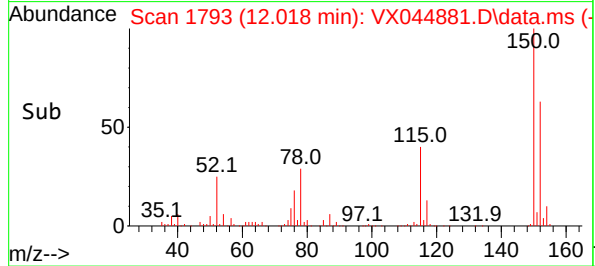
Tgt Ion:152 Resp: 69234

Ion Ratio Lower Upper

152 100

115 62.0 43.4 130.1

150 156.9 0.0 350.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044881.D
Acq On : 10 Feb 2025 15:41
Operator : JC/MD
Sample : Q1250-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-TB-20250127

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Title : SW846 8260

Signal : TIC: VX044881.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.240	21	25	32	rBV2	5316	11055	1.77%	0.351%
2	1.618	69	87	88	rBV9	6574	27594	4.42%	0.875%
3	5.379	693	704	722	rBV2	66770	204159	32.74%	6.474%
4	5.544	722	731	748	rVV	97421	280596	45.00%	8.898%
5	5.952	787	798	816	rBV	78560	210560	33.77%	6.677%
6	6.757	921	930	956	rBV	180970	442470	70.95%	14.031%
7	8.647	1233	1240	1260	rBV	377087	623594	100.00%	19.775%
8	10.049	1465	1470	1489	rBV	374281	534274	85.68%	16.942%
9	11.079	1634	1639	1654	rBV	288827	378499	60.70%	12.003%
10	12.018	1788	1793	1806	rBV	350567	440692	70.67%	13.975%

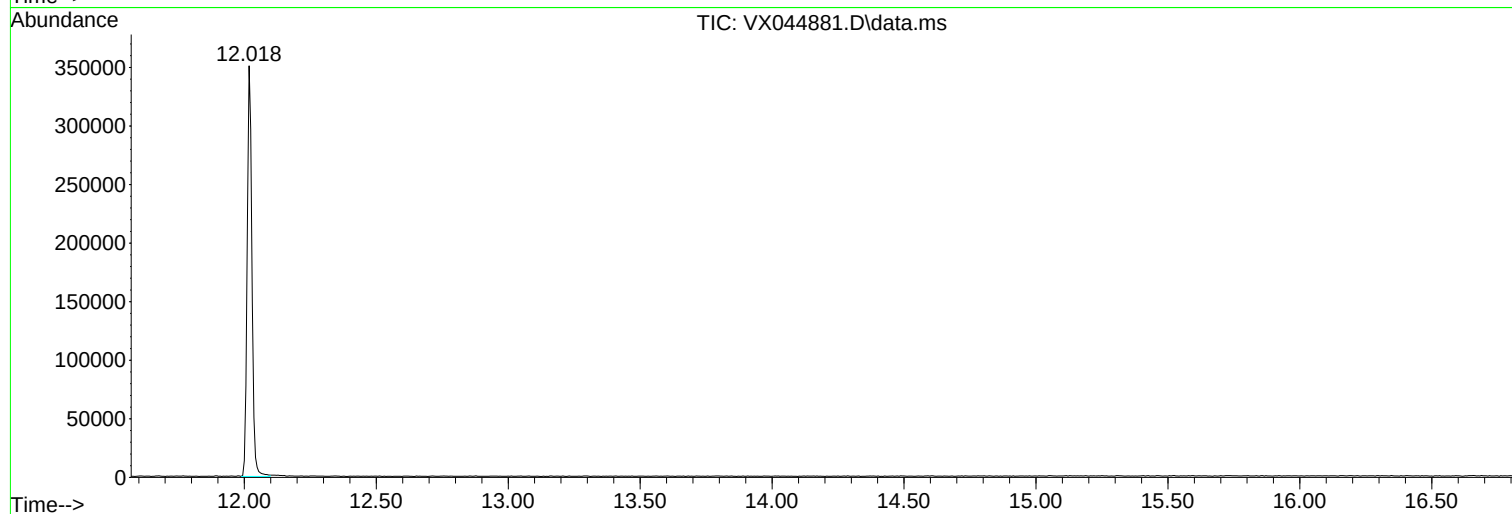
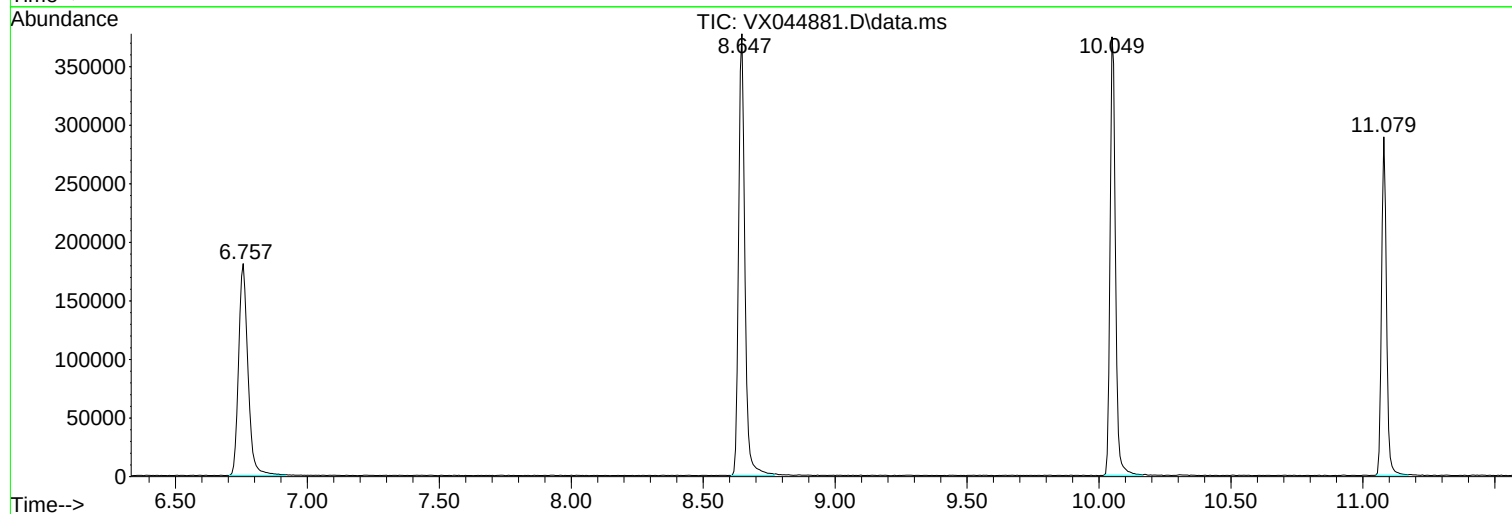
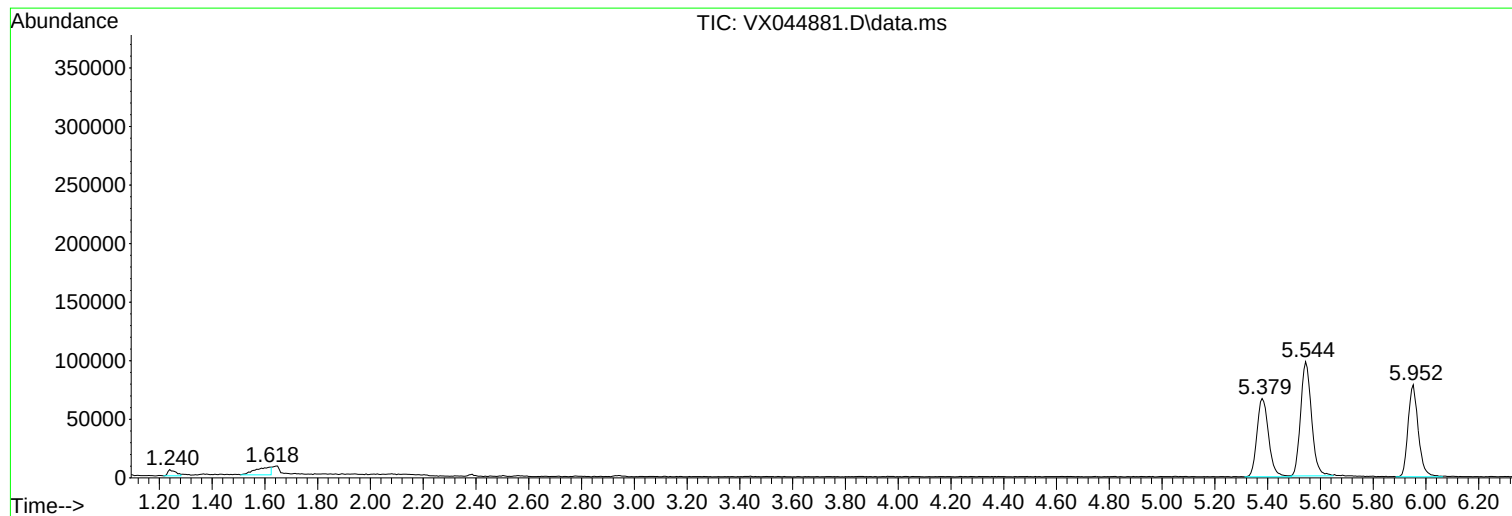
Sum of corrected areas: 3153493

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044881.D
Acq On : 10 Feb 2025 15:41
Operator : JC/MD
Sample : Q1250-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-TB-20250127

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044881.D
Acq On : 10 Feb 2025 15:41
Operator : JC/MD
Sample : Q1250-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-TB-20250127

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044881.D
Acq On : 10 Feb 2025 15:41
Operator : JC/MD
Sample : Q1250-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-TB-20250127

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	01/29/25	
Project:	CTO WE13			Date Received:	01/30/25	
Client Sample ID:	BP-VPB-192-GW-420-422			SDG No.:	Q1250	
Lab Sample ID:	Q1250-02			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044880.D	1		02/10/25 15:18	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	4.80	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.54	J	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/29/25
Project:	CTO WE13	Date Received:	01/30/25
Client Sample ID:	BP-VPB-192-GW-420-422	SDG No.:	Q1250
Lab Sample ID:	Q1250-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044880.D	1		02/10/25 15:18	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.1		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.9		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.7		85 - 114		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	96900	5.549				
540-36-3	1,4-Difluorobenzene	197000	6.756				
3114-55-4	Chlorobenzene-d5	180000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	78400	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/29/25	
Project:	CTO WE13		Date Received:	01/30/25	
Client Sample ID:	BP-VPB-192-GW-420-422		SDG No.:	Q1250	
Lab Sample ID:	Q1250-02		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044880.D	1		02/10/25 15:18	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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\VX021025\
 Data File : VX044880.D
 Acq On : 10 Feb 2025 15:18
 Operator : JC/MD
 Sample : Q1250-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-192-GW-420-422

Quant Time: Feb 11 06:06:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration

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

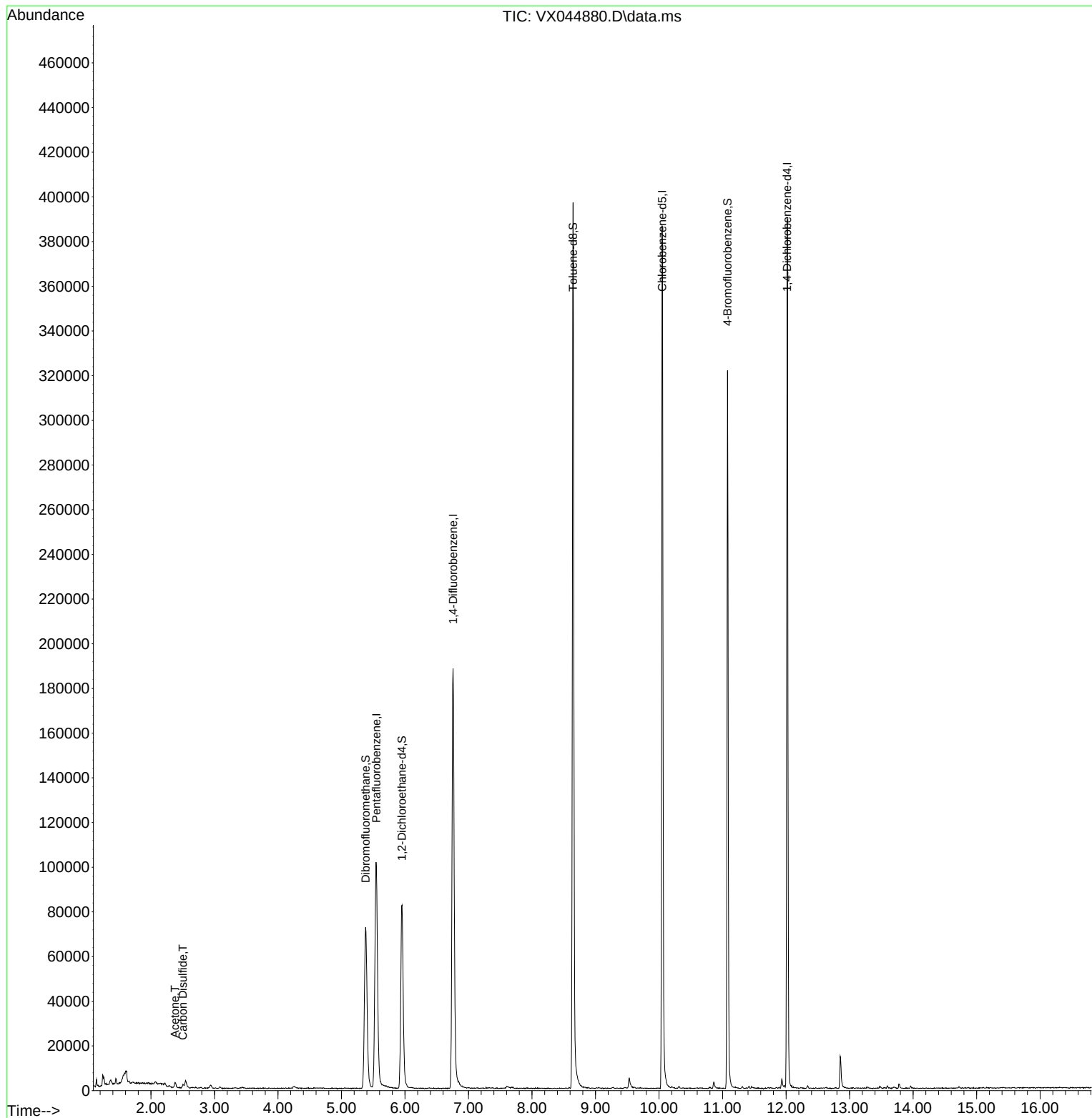
Internal Standards						
1) Pentafluorobenzene	5.549	168	96890	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.756	114	196670	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	180490	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	78413	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	75335	53.117	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.240%			
35) Dibromofluoromethane	5.379	113	65518	51.239	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.480%			
50) Toluene-d8	8.646	98	246144	50.907	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.820%			
62) 4-Bromofluorobenzene	11.079	95	84339	51.740	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.480%			
Target Compounds						
16) Acetone	2.379	43	2714	4.760	ug/l	96
17) Carbon Disulfide	2.501	76	1840	0.537	ug/l	99

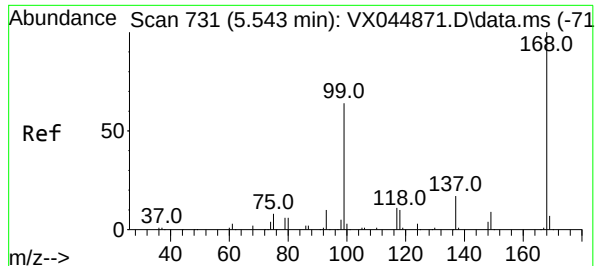
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044880.D
Acq On : 10 Feb 2025 15:18
Operator : JC/MD
Sample : Q1250-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-420-422

Quant Time: Feb 11 06:06:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.549 min Scan# 71

Delta R.T. 0.006 min

Lab File: VX044880.D

Acq: 10 Feb 2025 15:18

Instrument :

MSVOA_X

ClientSampleId :

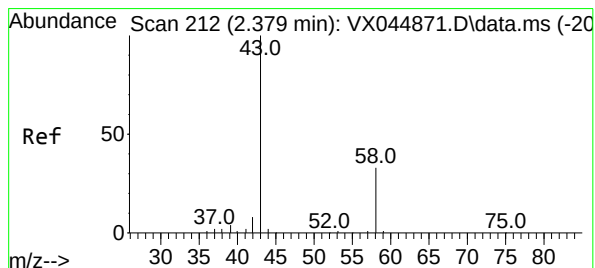
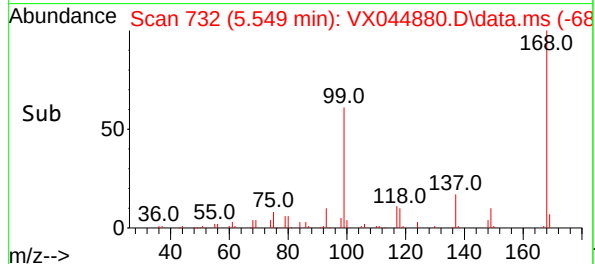
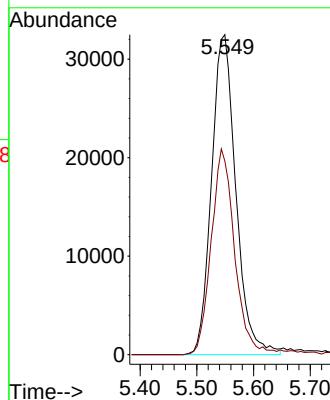
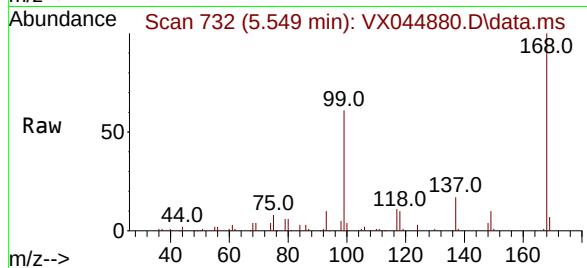
BP-VPB-192-GW-420-422

Tgt Ion:168 Resp: 96890

Ion Ratio Lower Upper

168 100

99 60.5 51.2 76.8



#16

Acetone

Concen: 4.760 ug/l

RT: 2.379 min Scan# 212

Delta R.T. -0.000 min

Lab File: VX044880.D

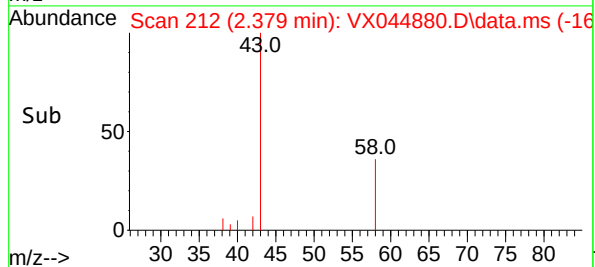
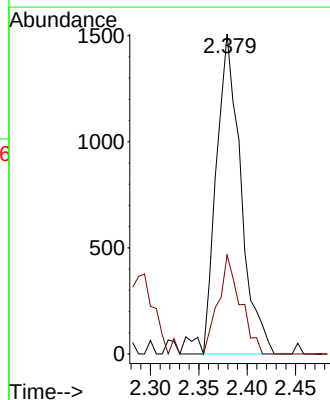
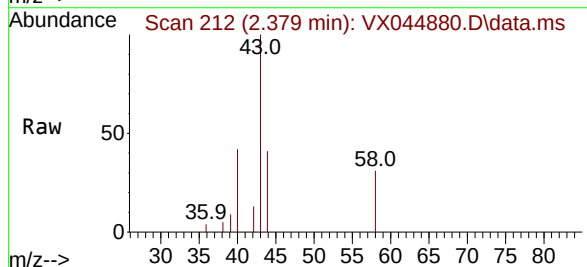
Acq: 10 Feb 2025 15:18

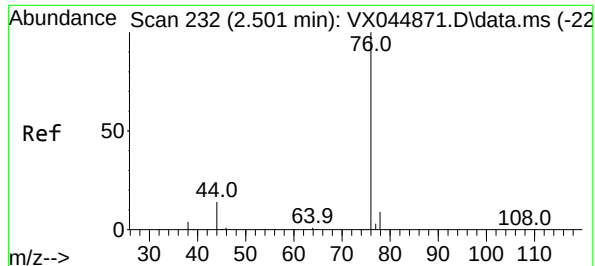
Tgt Ion: 43 Resp: 2714

Ion Ratio Lower Upper

43 100

58 30.9 26.5 39.7





#17

Carbon Disulfide

Concen: 0.537 ug/l

RT: 2.501 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX044880.D

Acq: 10 Feb 2025 15:18

Instrument :

MSVOA_X

ClientSampleId :

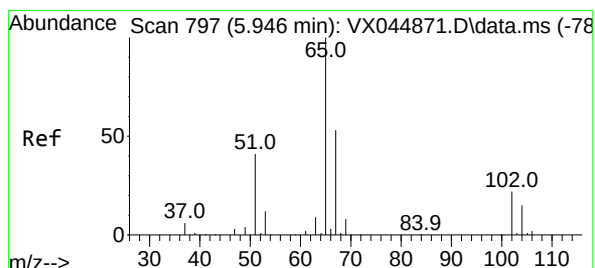
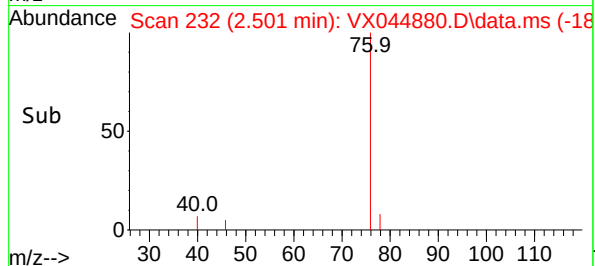
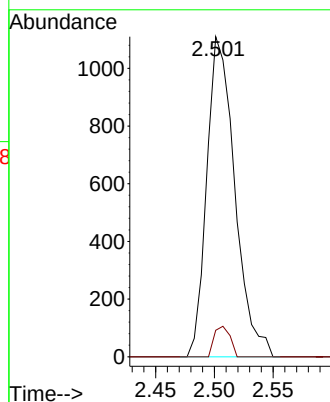
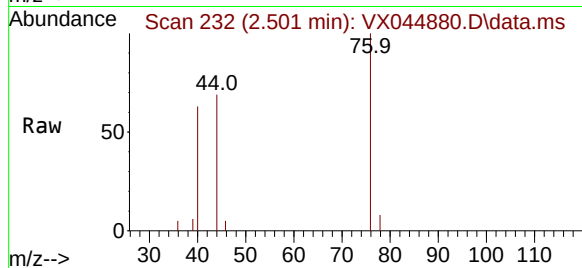
BP-VPB-192-GW-420-422

Tgt Ion: 76 Resp: 1840

Ion Ratio Lower Upper

76 100

78 8.3 7.0 10.4



#33

1,2-Dichloroethane-d4

Concen: 53.117 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX044880.D

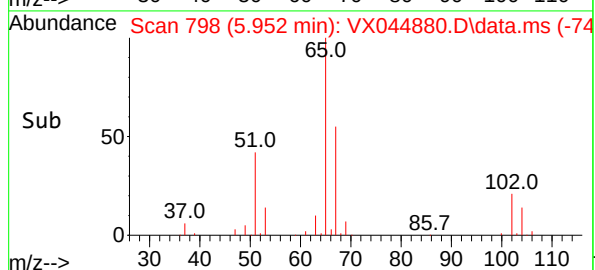
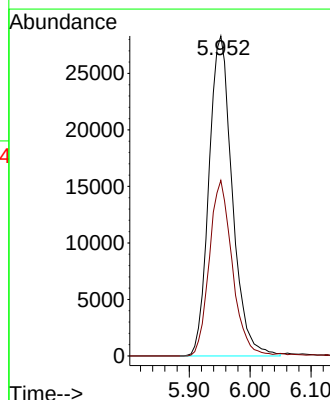
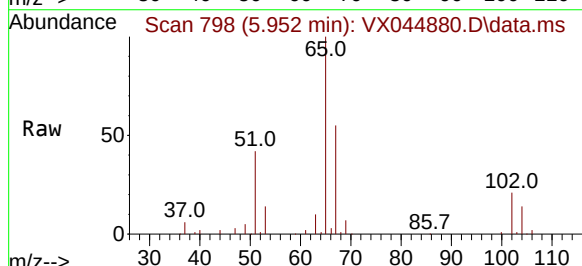
Acq: 10 Feb 2025 15:18

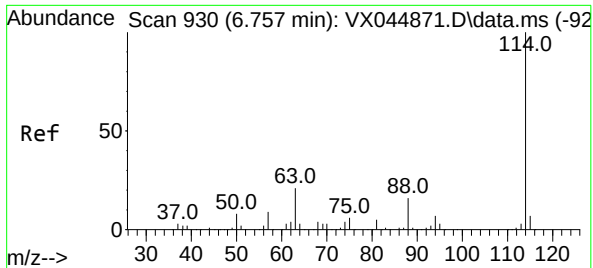
Tgt Ion: 65 Resp: 75335

Ion Ratio Lower Upper

65 100

67 53.9 0.0 108.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.756 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX044880.D

Acq: 10 Feb 2025 15:18

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-420-422

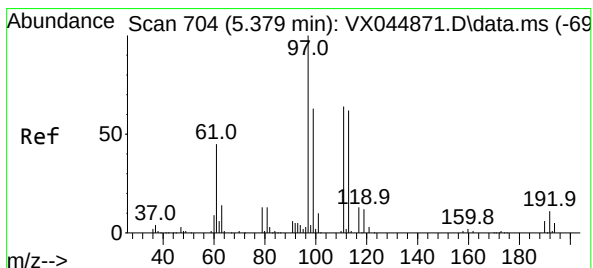
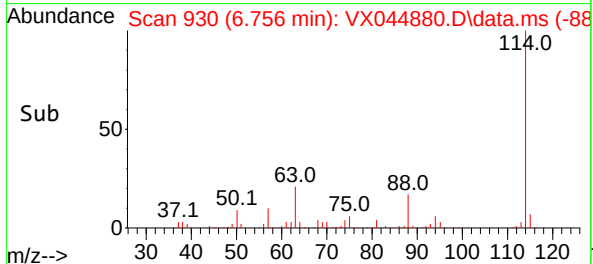
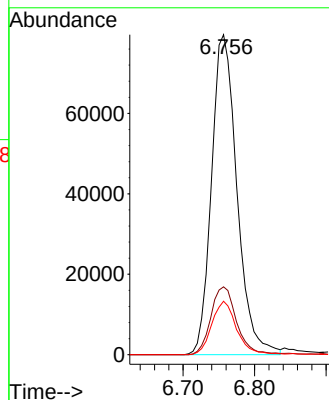
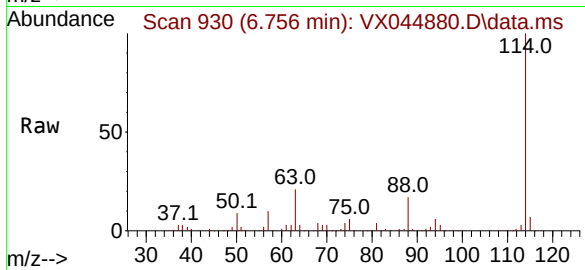
Tgt Ion:114 Resp: 196670

Ion Ratio Lower Upper

114 100

63 21.2 0.0 42.4

88 16.7 0.0 31.4



#35

Dibromofluoromethane

Concen: 51.239 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX044880.D

Acq: 10 Feb 2025 15:18

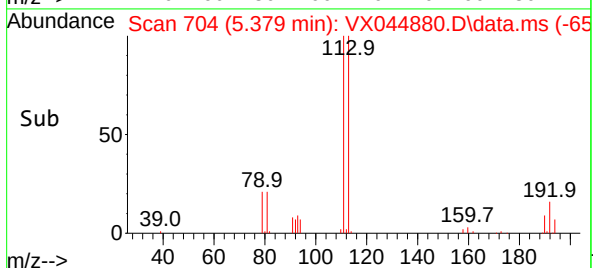
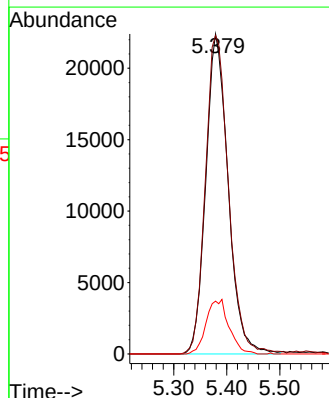
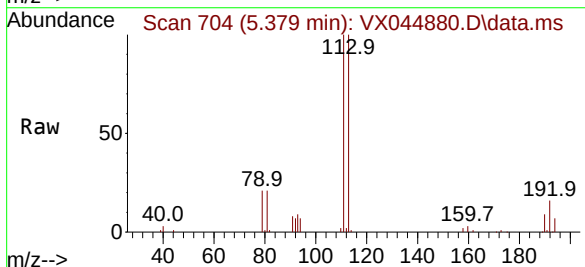
Tgt Ion:113 Resp: 65518

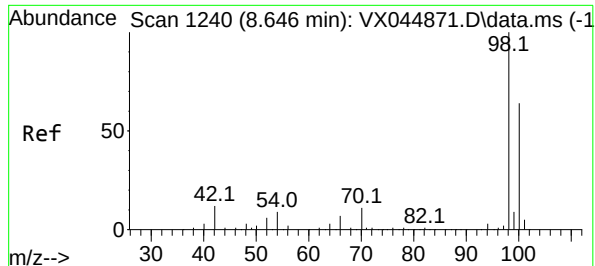
Ion Ratio Lower Upper

113 100

111 102.9 83.5 125.3

192 17.3 14.4 21.6





#50

Toluene-d8

Concen: 50.907 ug/l

RT: 8.646 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX044880.D

Acq: 10 Feb 2025 15:18

Instrument :

MSVOA_X

ClientSampleId :

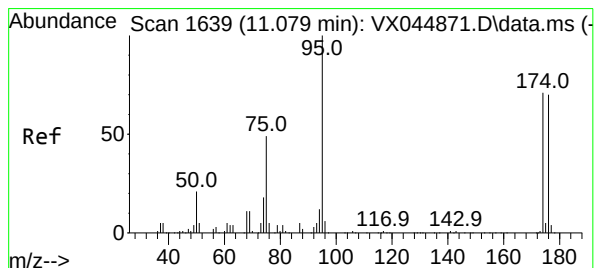
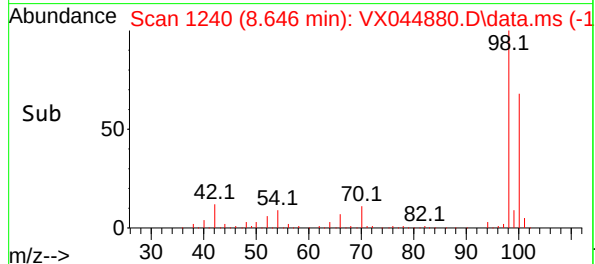
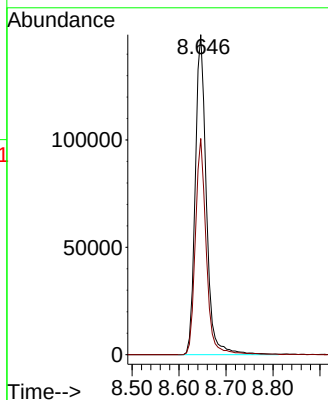
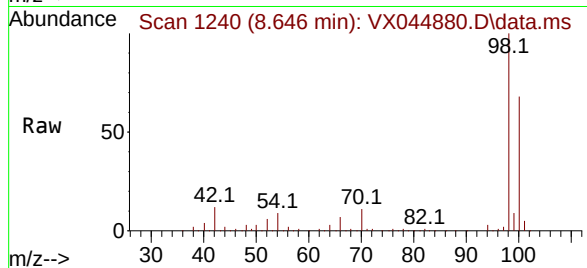
BP-VPB-192-GW-420-422

Tgt Ion: 98 Resp: 246144

Ion Ratio Lower Upper

98 100

100 66.3 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 51.740 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX044880.D

Acq: 10 Feb 2025 15:18

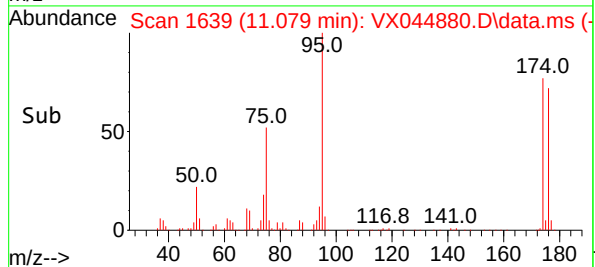
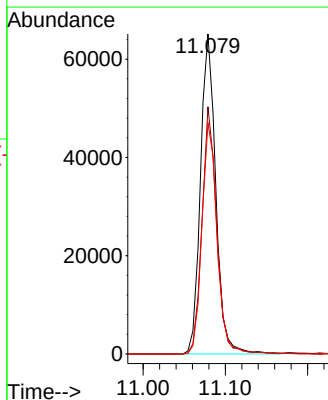
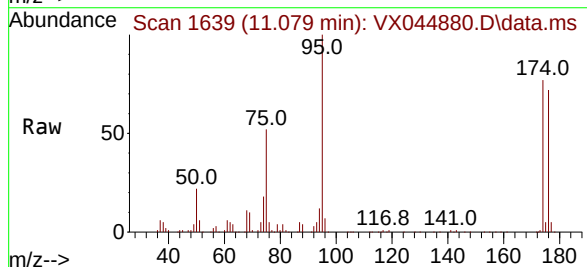
Tgt Ion: 95 Resp: 84339

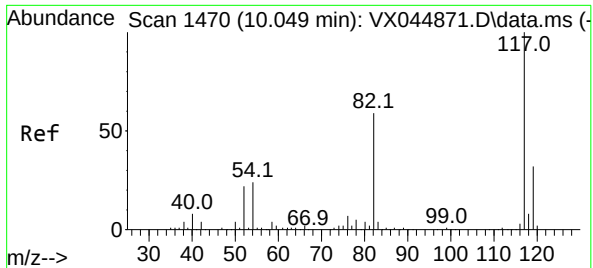
Ion Ratio Lower Upper

95 100

174 74.2 0.0 142.6

176 71.5 0.0 141.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. -0.000 min

Lab File: VX044880.D

Acq: 10 Feb 2025 15:18

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-420-422

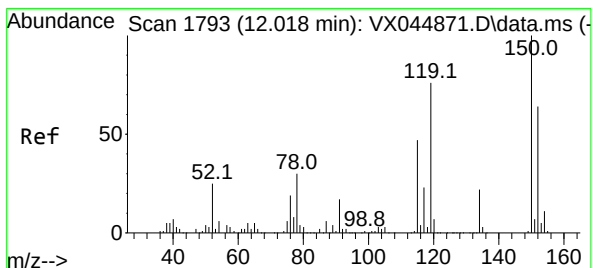
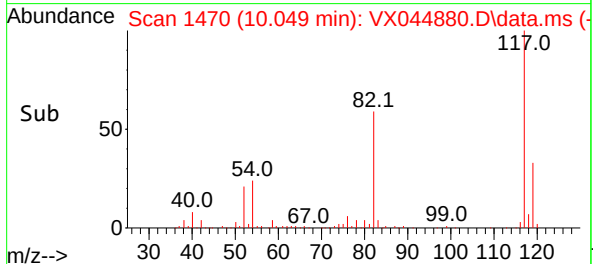
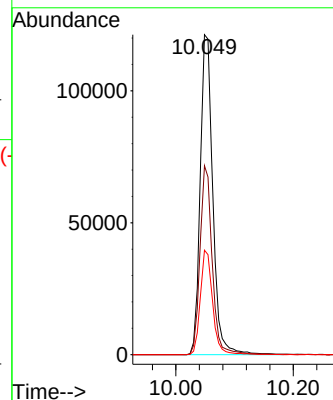
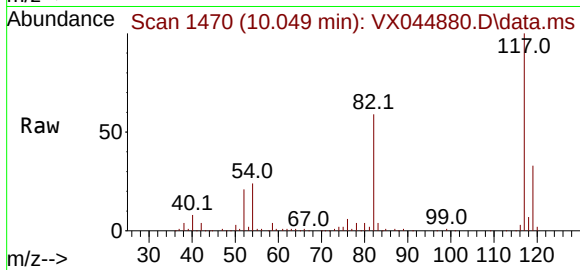
Tgt Ion:117 Resp: 180490

Ion Ratio Lower Upper

117 100

82 59.0 47.5 71.3

119 32.7 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX044880.D

Acq: 10 Feb 2025 15:18

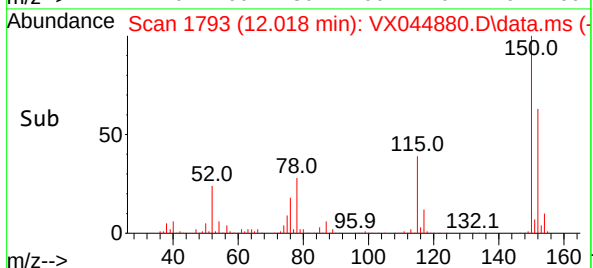
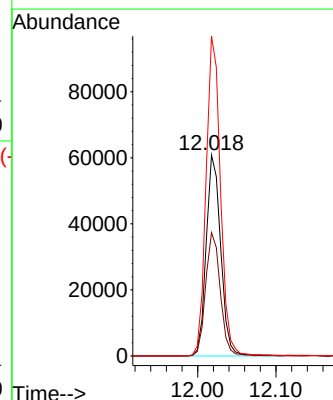
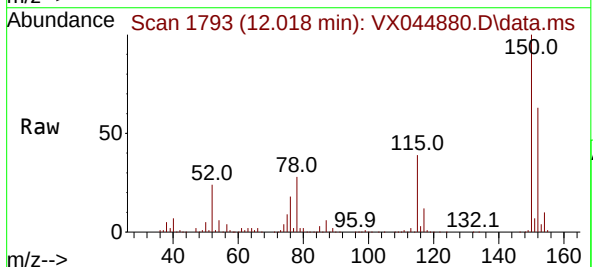
Tgt Ion:152 Resp: 78413

Ion Ratio Lower Upper

152 100

115 61.8 43.4 130.1

150 158.0 0.0 350.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044880.D
Acq On : 10 Feb 2025 15:18
Operator : JC/MD
Sample : Q1250-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-420-422

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M

Title : SW846 8260

Signal : TIC: VX044880.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.239	22	25	31	rBV2	4853	8851	1.34%	0.263%
2	1.568	71	79	80	rBV7	3612	7165	1.09%	0.213%
3	5.379	694	704	719	rBV2	72122	214560	32.54%	6.367%
4	5.543	721	731	746	rBV	100575	293405	44.50%	8.706%
5	5.952	787	798	816	rBV	82079	221402	33.58%	6.570%
6	6.756	921	930	943	rBV	187849	462412	70.13%	13.722%
7	8.646	1233	1240	1260	rBV	396450	659348	100.00%	19.565%
8	9.530	1380	1385	1393	rBV3	4459	8563	1.30%	0.254%
9	10.049	1465	1470	1484	rBV	386244	565979	85.84%	16.795%
10	11.079	1634	1639	1656	rBV	321228	409297	62.08%	12.145%
11	12.018	1788	1793	1804	rVV	388405	495769	75.19%	14.711%
12	12.853	1926	1930	1940	rBV2	14353	23206	3.52%	0.689%

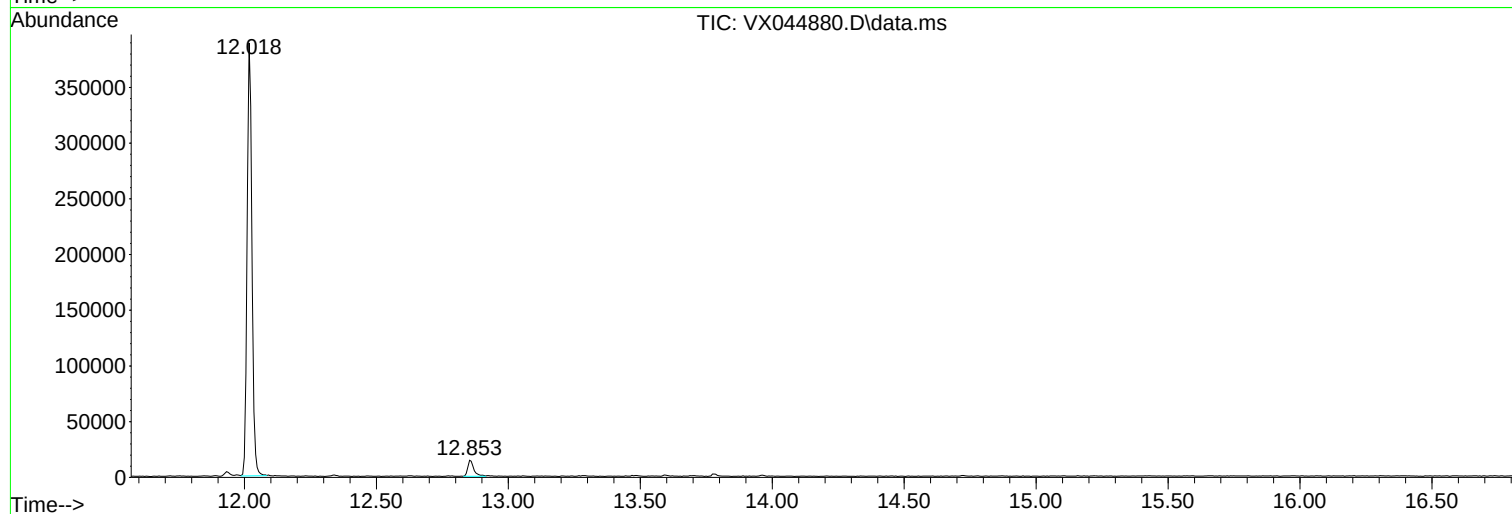
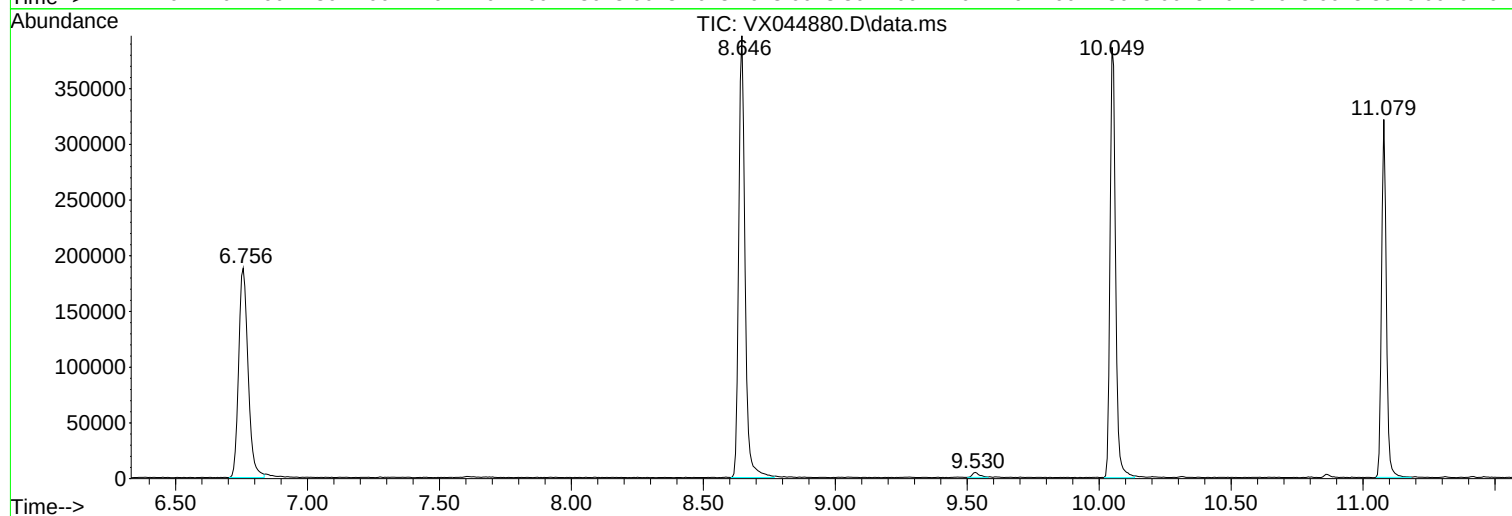
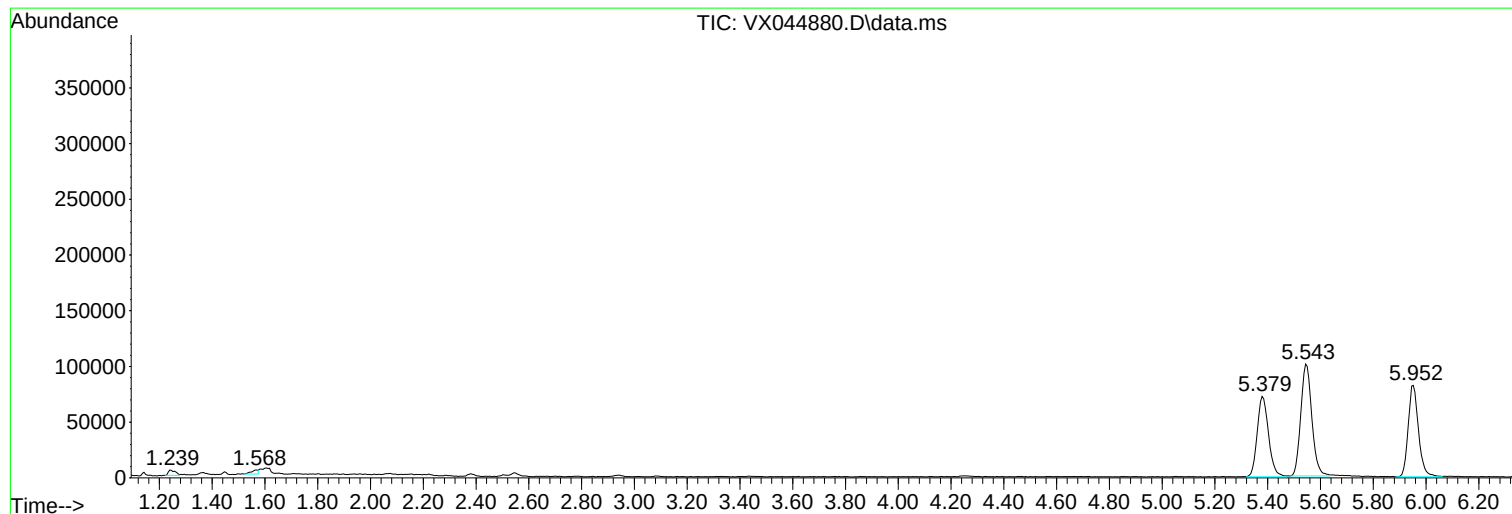
Sum of corrected areas: 3369957

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044880.D
Acq On : 10 Feb 2025 15:18
Operator : JC/MD
Sample : Q1250-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-420-422

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044880.D
Acq On : 10 Feb 2025 15:18
Operator : JC/MD
Sample : Q1250-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-420-422

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044880.D
Acq On : 10 Feb 2025 15:18
Operator : JC/MD
Sample : Q1250-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-420-422

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	01/27/25		
Project:	CTO WE13			Date Received:	01/30/25		
Client Sample ID:	BP-VPB-192-GW-300-302			SDG No.:	Q1250		
Lab Sample ID:	Q1250-03			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044882.D	1		02/10/25 16:04	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	6.00		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.36	J	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/27/25	
Project:	CTO WE13		Date Received:	01/30/25	
Client Sample ID:	BP-VPB-192-GW-300-302		SDG No.:	Q1250	
Lab Sample ID:	Q1250-03		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044882.D	1		02/10/25 16:04	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.2		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.5		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.8		85 - 114		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	99300	5.55				
540-36-3	1,4-Difluorobenzene	201000	6.757				
3114-55-4	Chlorobenzene-d5	184000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	78900	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/27/25	
Project:	CTO WE13		Date Received:	01/30/25	
Client Sample ID:	BP-VPB-192-GW-300-302		SDG No.:	Q1250	
Lab Sample ID:	Q1250-03		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044882.D	1		02/10/25 16:04	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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\VX021025\
 Data File : VX044882.D
 Acq On : 10 Feb 2025 16:04
 Operator : JC/MD
 Sample : Q1250-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-192-GW-300-302

Quant Time: Feb 11 06:06:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration

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

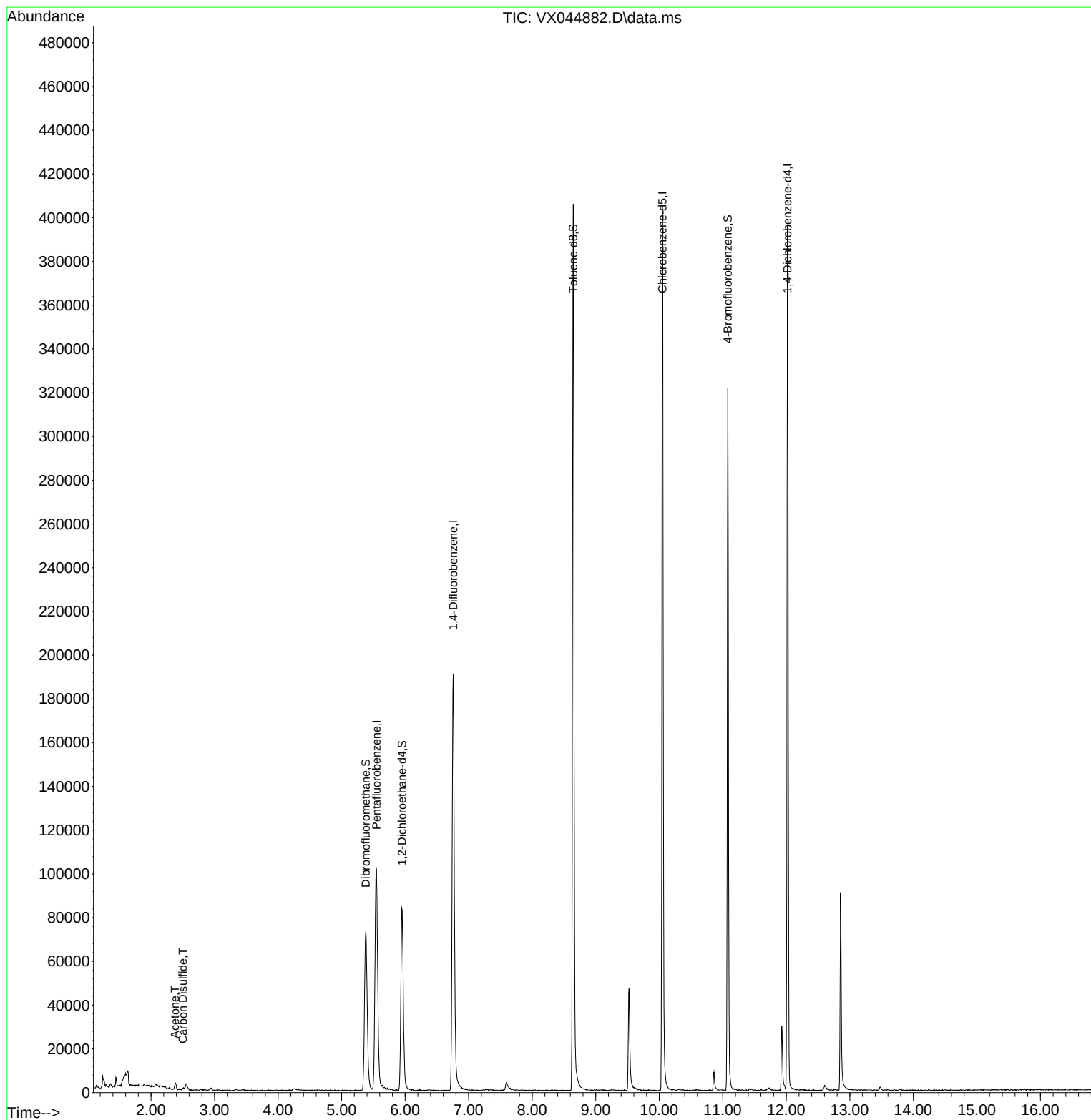
Internal Standards						
1) Pentafluorobenzene	5.550	168	99257	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	200954	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	183816	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	78851	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	77326	53.220	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 106.440%	
35) Dibromofluoromethane	5.379	113	66716	51.063	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.120%	
50) Toluene-d8	8.647	98	249528	50.506	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.020%	
62) 4-Bromofluorobenzene	11.079	95	86225	51.769	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 103.540%	
Target Compounds						Qvalue
16) Acetone	2.380	43	3493	5.980	ug/l	96
17) Carbon Disulfide	2.502	76	1258	0.359	ug/l #	90

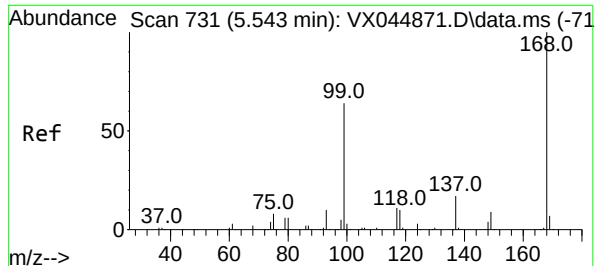
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044882.D
Acq On : 10 Feb 2025 16:04
Operator : JC/MD
Sample : Q1250-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-300-302

Quant Time: Feb 11 06:06:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

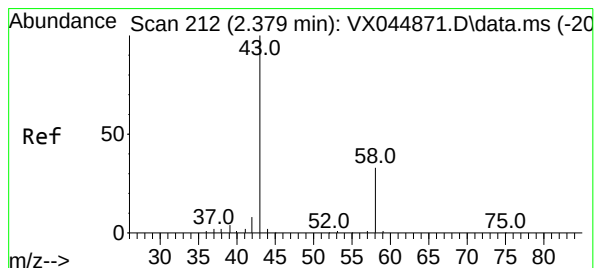
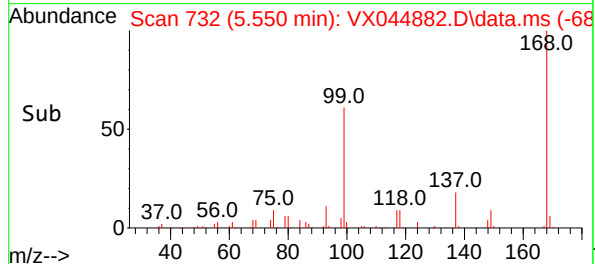
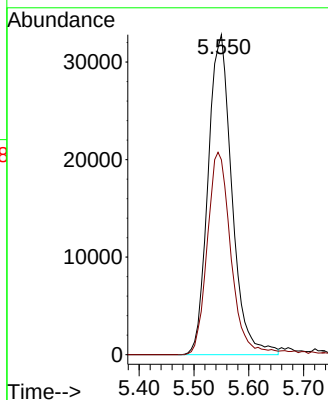
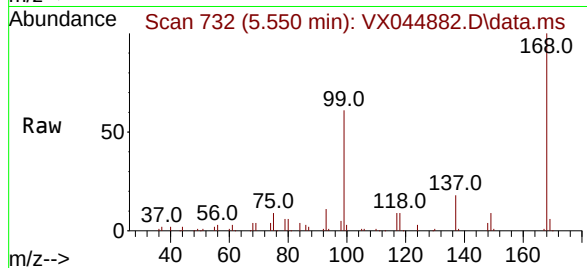




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.007 min
Lab File: VX044882.D
Acq: 10 Feb 2025 16:04

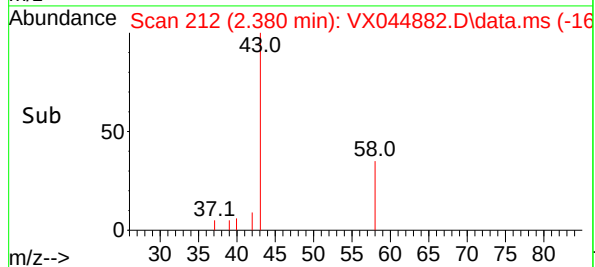
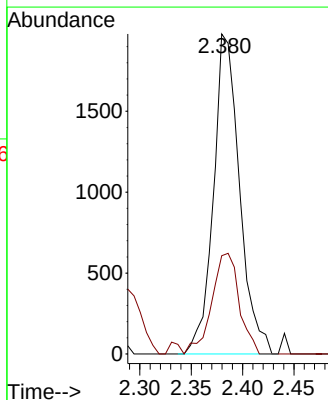
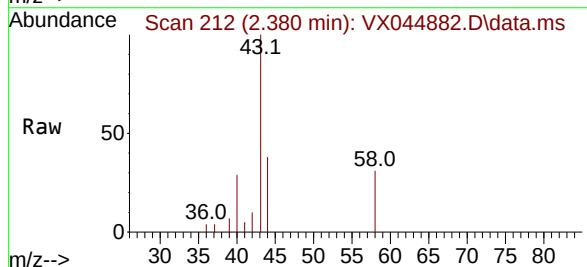
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-300-302

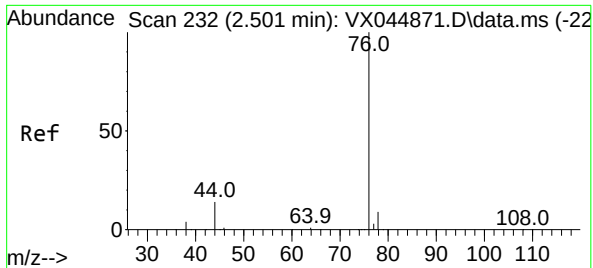
Tgt Ion:168 Resp: 99257
Ion Ratio Lower Upper
168 100
99 60.9 51.2 76.8



#16
Acetone
Concen: 5.980 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044882.D
Acq: 10 Feb 2025 16:04

Tgt Ion: 43 Resp: 3493
Ion Ratio Lower Upper
43 100
58 30.7 26.5 39.7





#17

Carbon Disulfide

Concen: 0.359 ug/l

RT: 2.502 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX044882.D

Acq: 10 Feb 2025 16:04

Instrument :

MSVOA_X

ClientSampleId :

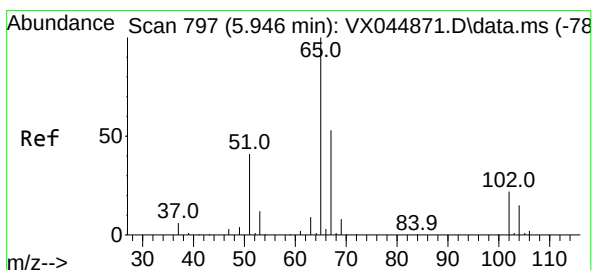
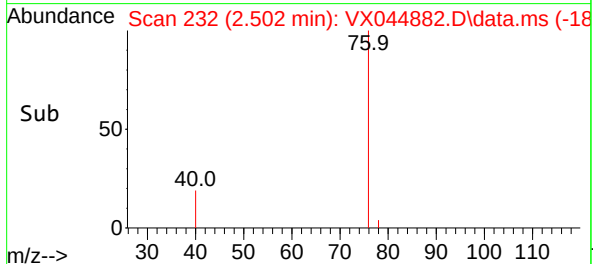
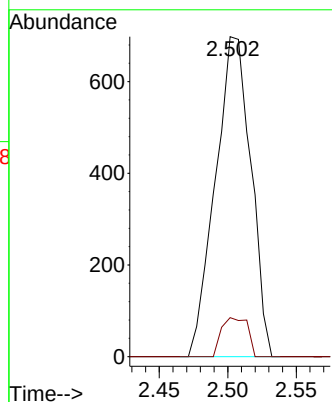
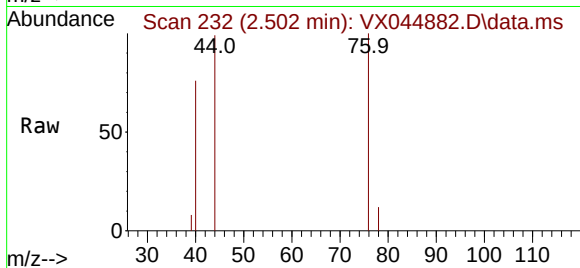
BP-VPB-192-GW-300-302

Tgt Ion: 76 Resp: 1258

Ion Ratio Lower Upper

76 100

78 12.2 7.0 10.4#



#33

1,2-Dichloroethane-d4

Concen: 53.220 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.007 min

Lab File: VX044882.D

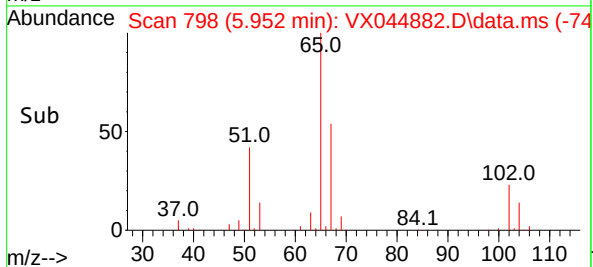
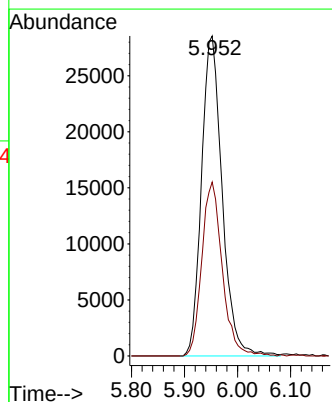
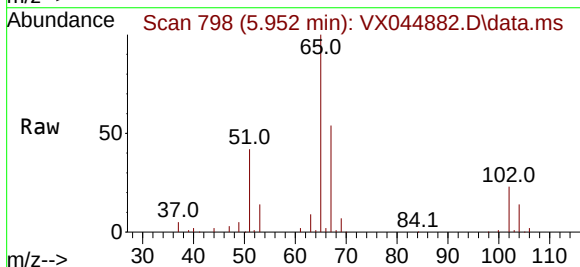
Acq: 10 Feb 2025 16:04

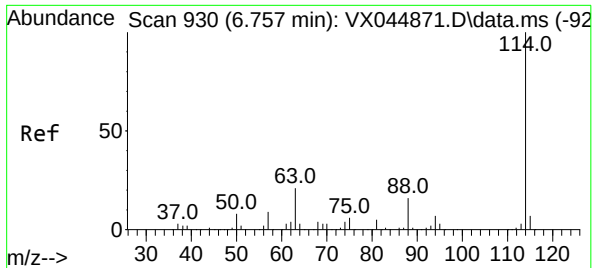
Tgt Ion: 65 Resp: 77326

Ion Ratio Lower Upper

65 100

67 53.7 0.0 108.2

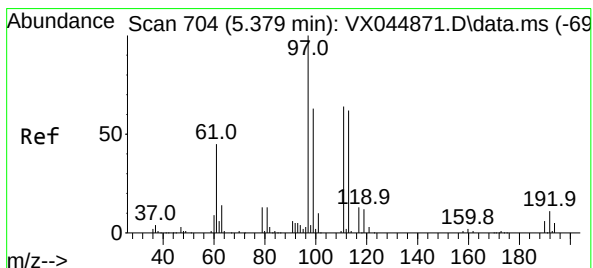
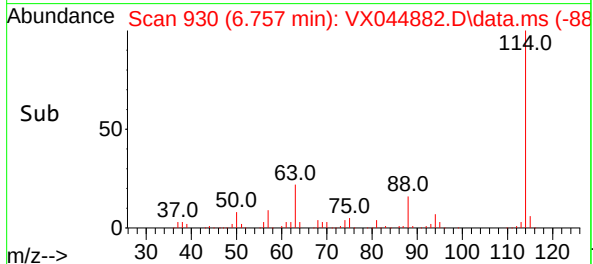
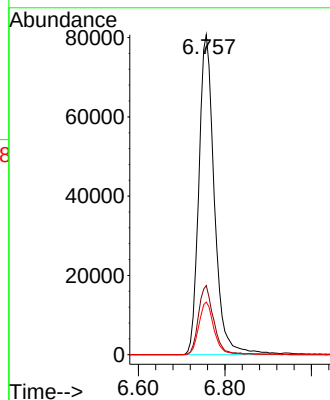
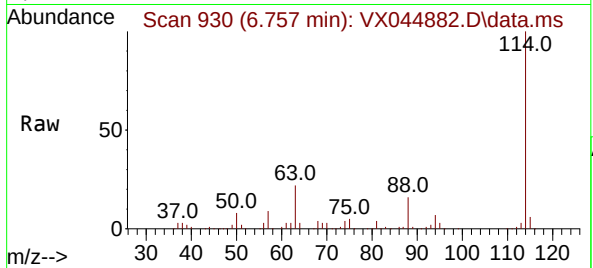




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX044882.D
Acq: 10 Feb 2025 16:04

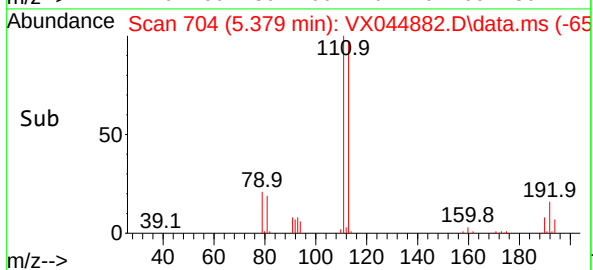
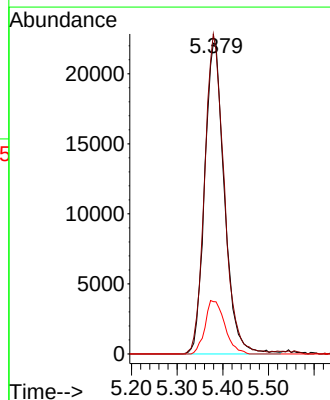
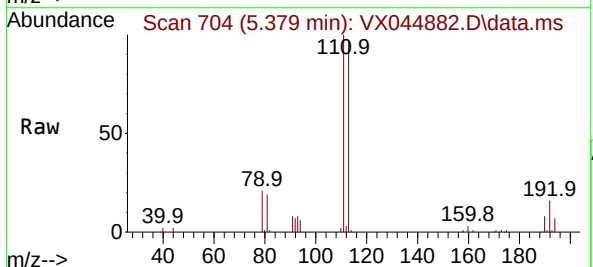
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-300-302

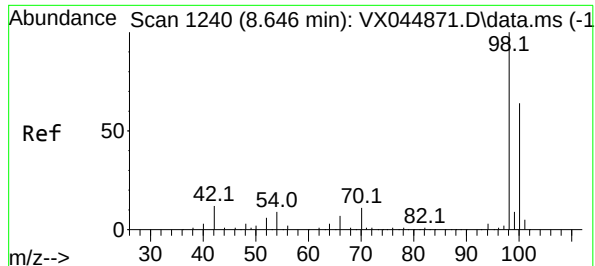
Tgt Ion:114 Resp: 200954
Ion Ratio Lower Upper
114 100
63 21.6 0.0 42.4
88 16.5 0.0 31.4



#35
Dibromofluoromethane
Concen: 51.063 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044882.D
Acq: 10 Feb 2025 16:04

Tgt Ion:113 Resp: 66716
Ion Ratio Lower Upper
113 100
111 101.6 83.5 125.3
192 17.1 14.4 21.6





#50

Toluene-d8

Concen: 50.506 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044882.D

Acq: 10 Feb 2025 16:04

Instrument :

MSVOA_X

ClientSampleId :

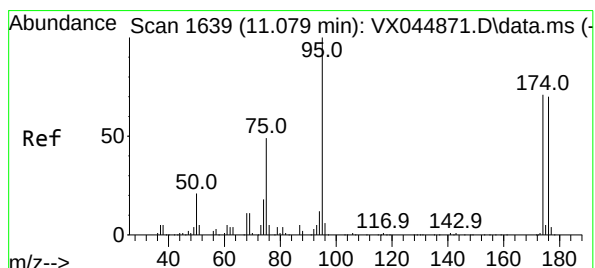
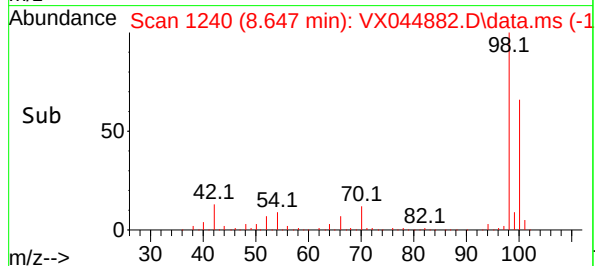
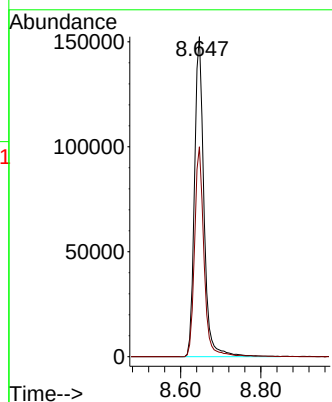
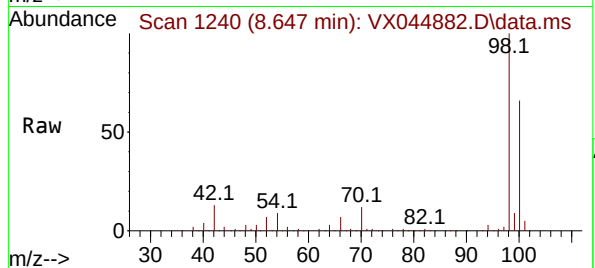
BP-VPB-192-GW-300-302

Tgt Ion: 98 Resp: 249528

Ion Ratio Lower Upper

98 100

100 65.3 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 51.769 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX044882.D

Acq: 10 Feb 2025 16:04

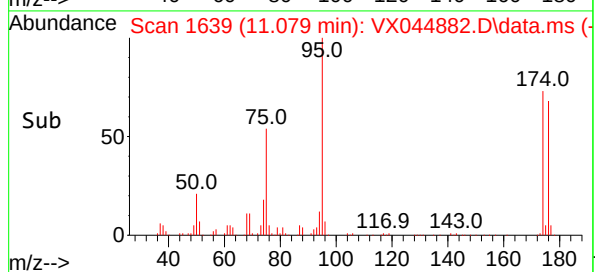
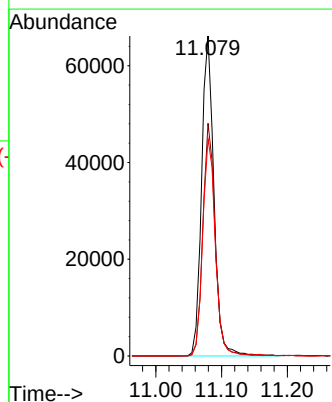
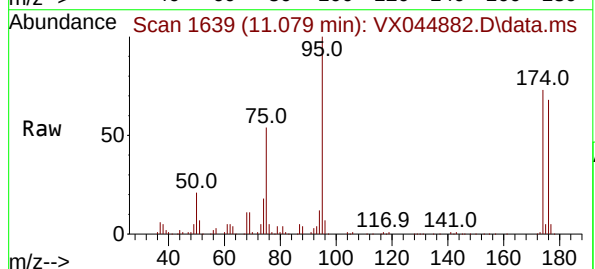
Tgt Ion: 95 Resp: 86225

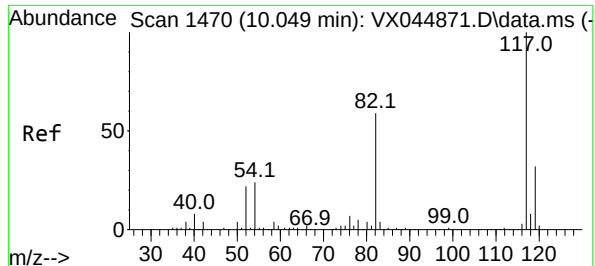
Ion Ratio Lower Upper

95 100

174 72.9 0.0 142.6

176 69.4 0.0 141.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX044882.D

Acq: 10 Feb 2025 16:04

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-300-302

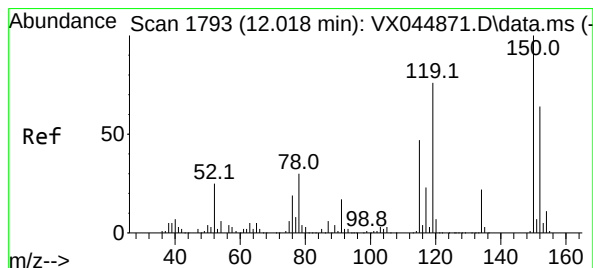
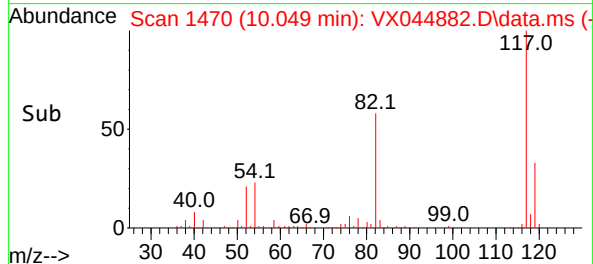
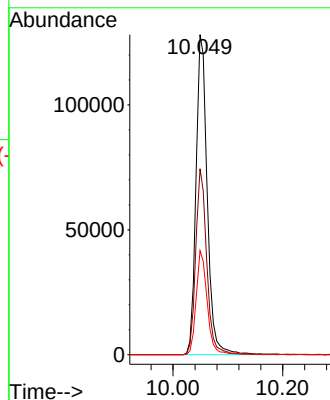
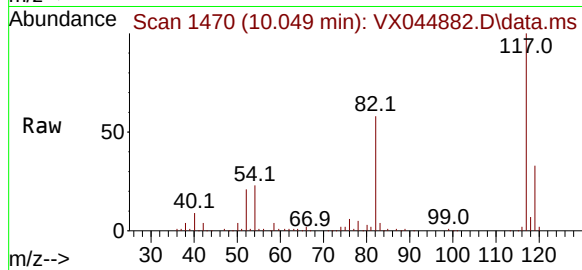
Tgt Ion:117 Resp: 183816

Ion Ratio Lower Upper

117 100

82 58.1 47.5 71.3

119 32.5 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX044882.D

Acq: 10 Feb 2025 16:04

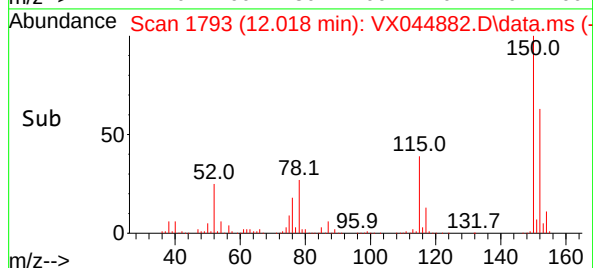
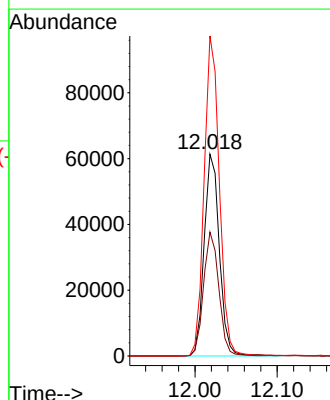
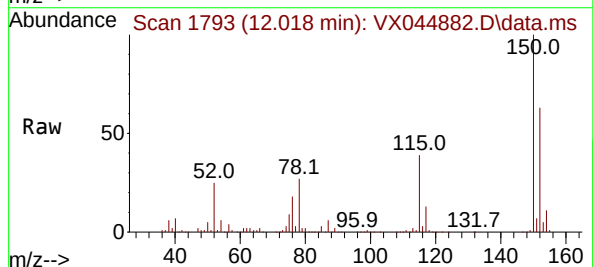
Tgt Ion:152 Resp: 78851

Ion Ratio Lower Upper

152 100

115 61.9 43.4 130.1

150 158.6 0.0 350.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044882.D
 Acq On : 10 Feb 2025 16:04
 Operator : JC/MD
 Sample : Q1250-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-192-GW-300-302

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M

Title : SW846 8260

Signal : TIC: VX044882.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.599	72	84	85	rBV5	5916	17167	2.58%	0.468%
2	5.379	694	704	722	rBV2	72551	218959	32.90%	5.975%
3	5.544	722	731	745	rBV2	101398	297406	44.69%	8.116%
4	5.946	789	797	812	rBV	83506	225490	33.88%	6.153%
5	6.757	921	930	954	rBV	190068	470400	70.69%	12.837%
6	7.598	1061	1068	1076	rBV4	3628	9450	1.42%	0.258%
7	8.647	1233	1240	1264	rBV	405252	665458	100.00%	18.160%
8	9.525	1378	1384	1395	rBV	46534	82387	12.38%	2.248%
9	10.049	1465	1470	1489	rBV	404290	575876	86.54%	15.715%
10	10.860	1598	1603	1612	rBV4	8324	13026	1.96%	0.355%
11	11.079	1634	1639	1655	rBV	321087	414535	62.29%	11.312%
12	11.927	1774	1778	1788	rBV2	29538	44916	6.75%	1.226%
13	12.018	1788	1793	1806	rVV	394808	504867	75.87%	13.777%
14	12.853	1925	1930	1943	rBV	90609	124504	18.71%	3.398%

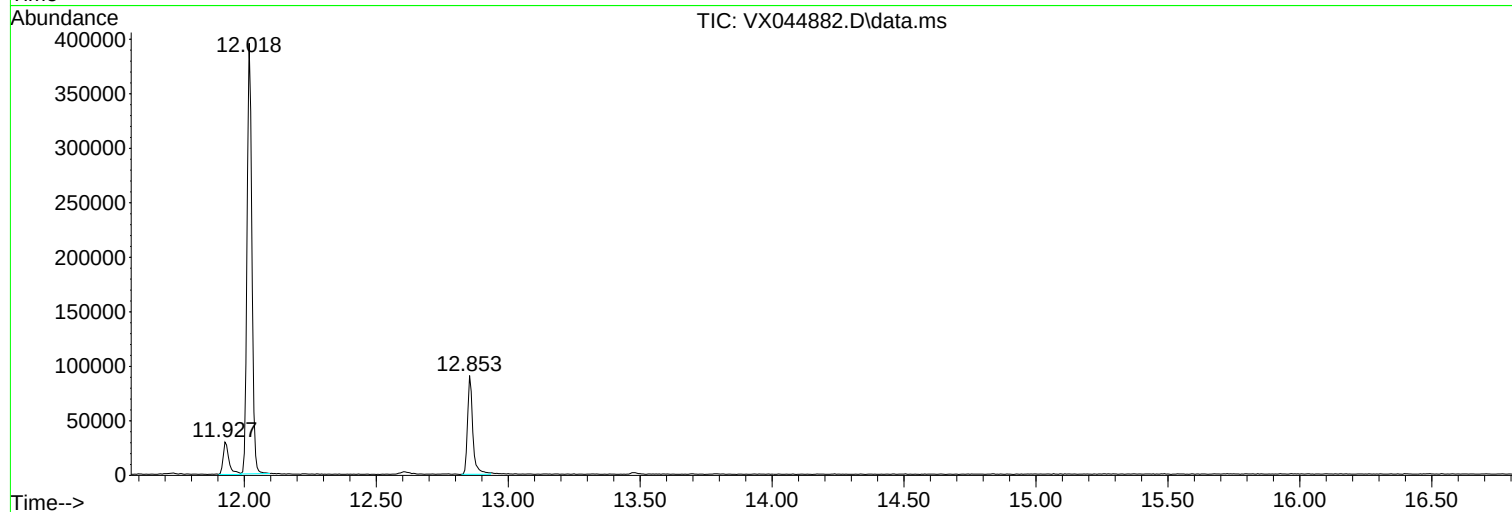
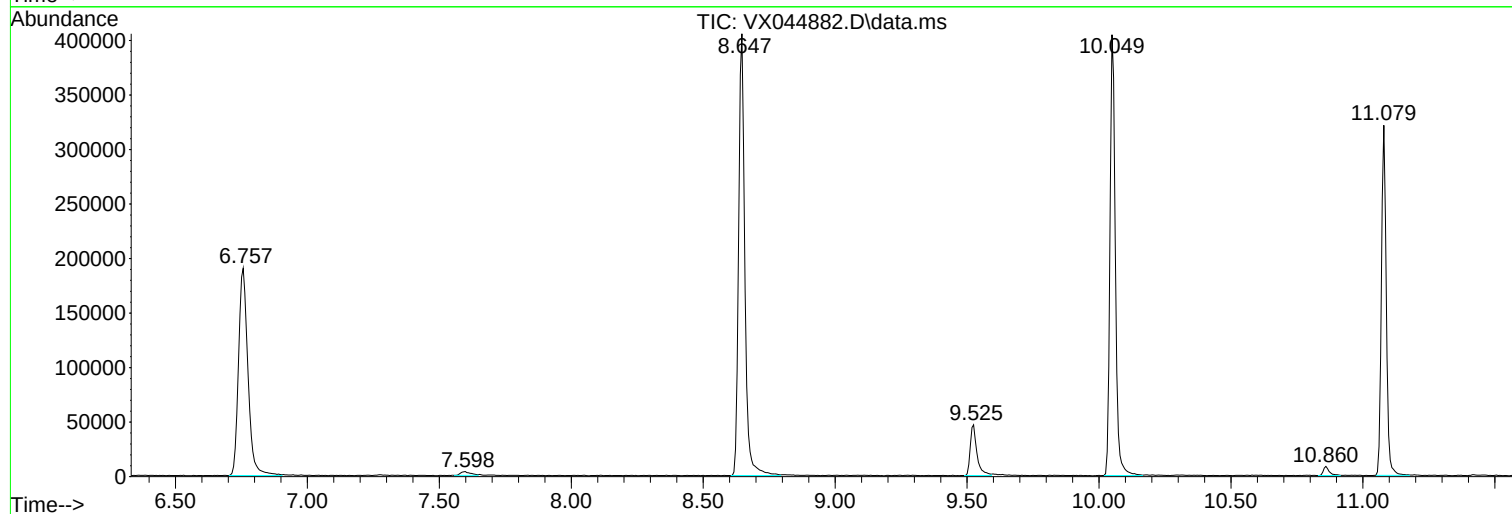
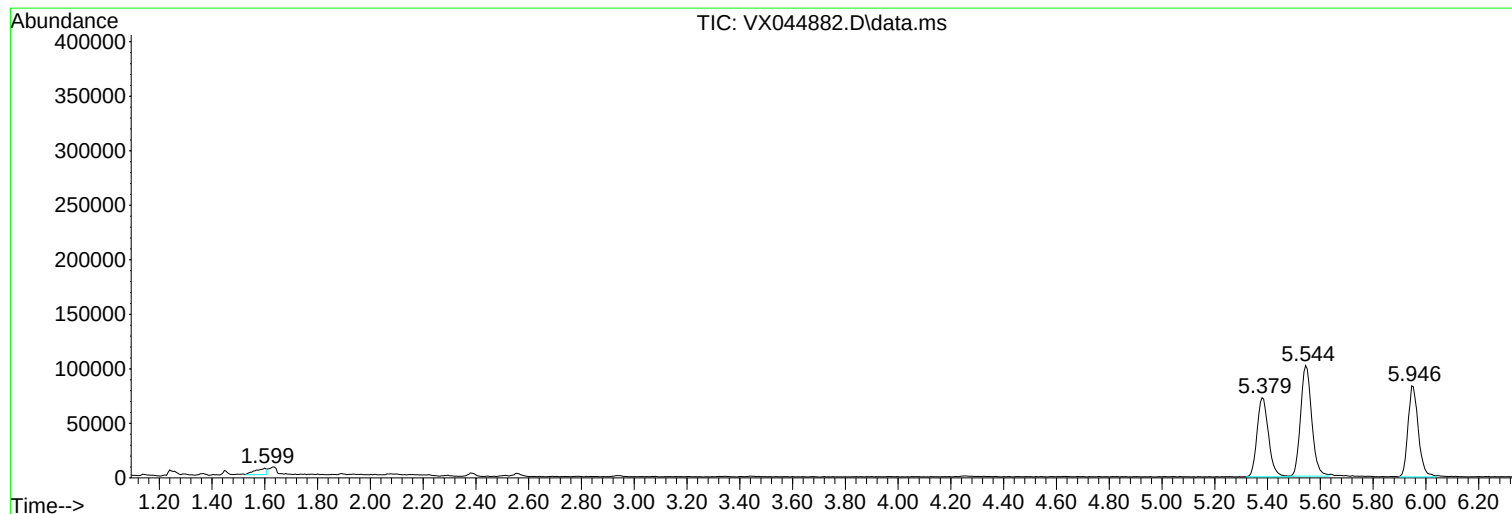
Sum of corrected areas: 3664441

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044882.D
Acq On : 10 Feb 2025 16:04
Operator : JC/MD
Sample : Q1250-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-300-302

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044882.D
Acq On : 10 Feb 2025 16:04
Operator : JC/MD
Sample : Q1250-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-300-302

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044882.D
Acq On : 10 Feb 2025 16:04
Operator : JC/MD
Sample : Q1250-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-300-302

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	01/27/25		
Project:	CTO WE13			Date Received:	01/30/25		
Client Sample ID:	BP-VPB-192-GW-320-322			SDG No.:	Q1250		
Lab Sample ID:	Q1250-04			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044883.D	1		02/10/25 16:27	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	8.60		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.51	J	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/27/25	
Project:	CTO WE13		Date Received:	01/30/25	
Client Sample ID:	BP-VPB-192-GW-320-322		SDG No.:	Q1250	
Lab Sample ID:	Q1250-04		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044883.D	1		02/10/25 16:27	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.3		81 - 118		105%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	50.5		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.9		85 - 114		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	96100	5.55				
540-36-3	1,4-Difluorobenzene	195000	6.757				
3114-55-4	Chlorobenzene-d5	175000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	76700	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/27/25
Project:	CTO WE13	Date Received:	01/30/25
Client Sample ID:	BP-VPB-192-GW-320-322	SDG No.:	Q1250
Lab Sample ID:	Q1250-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044883.D	1		02/10/25 16:27	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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\VX021025\
 Data File : VX044883.D
 Acq On : 10 Feb 2025 16:27
 Operator : JC/MD
 Sample : Q1250-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-192-GW-320-322

Quant Time: Feb 11 06:07:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration

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

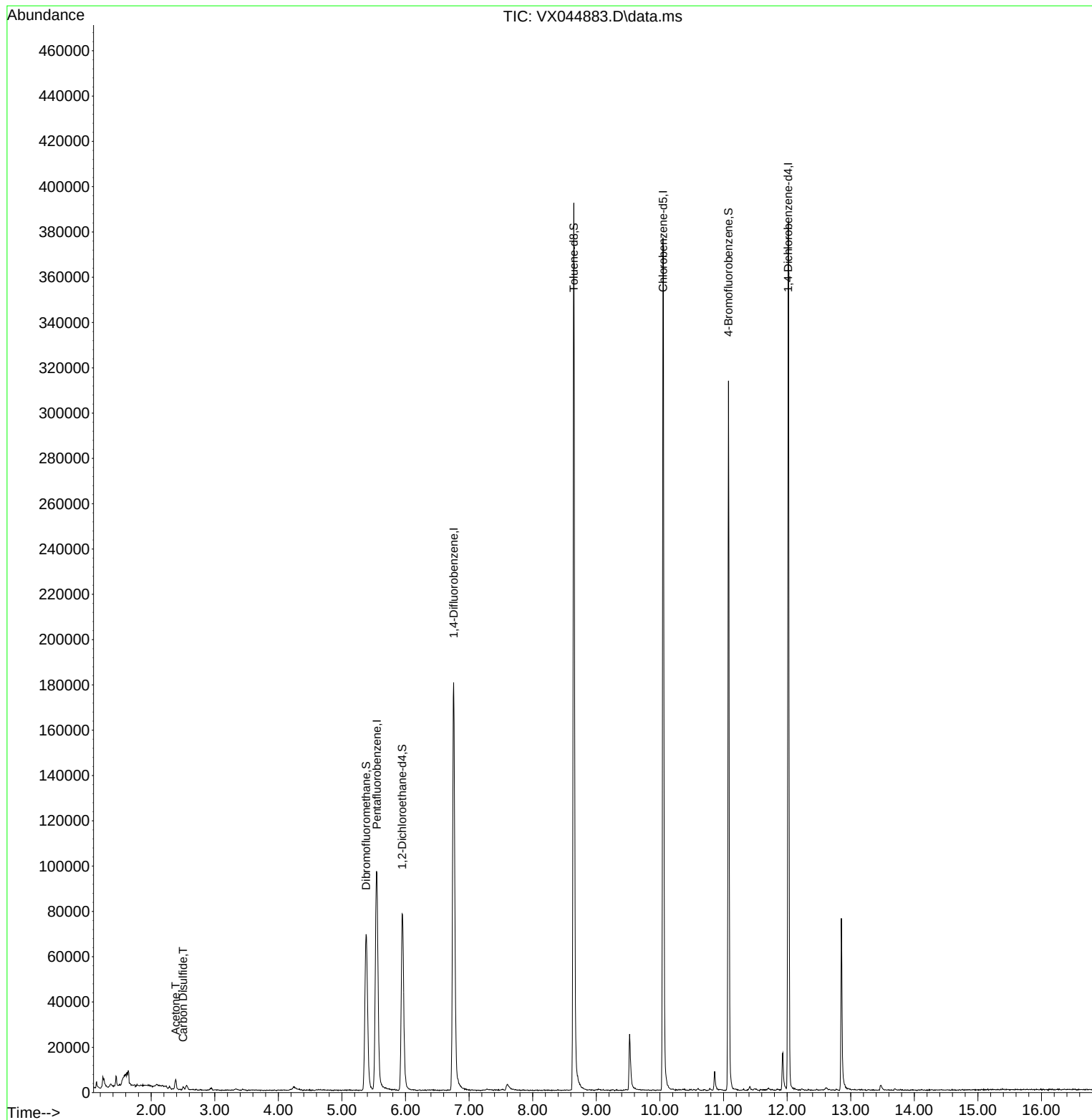
Internal Standards						
1) Pentafluorobenzene	5.550	168	96132	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	194678	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	175107	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	76744	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	73570	52.281	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	104.560%
35) Dibromofluoromethane	5.379	113	62879	49.678	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	99.360%
50) Toluene-d8	8.647	98	241572	50.472	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.940%
62) 4-Bromofluorobenzene	11.079	95	83784	51.925	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	103.860%
Target Compounds						
						Qvalue
16) Acetone	2.385	43	4882	8.630	ug/l	94
17) Carbon Disulfide	2.501	76	1717	0.505	ug/l #	93

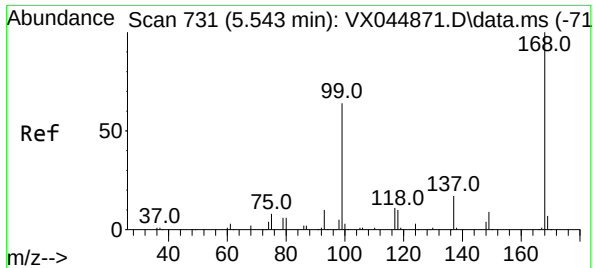
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044883.D
Acq On : 10 Feb 2025 16:27
Operator : JC/MD
Sample : Q1250-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-320-322

Quant Time: Feb 11 06:07:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.550 min Scan# 71

Delta R.T. 0.007 min

Lab File: VX044883.D

Acq: 10 Feb 2025 16:27

Instrument :

MSVOA_X

ClientSampleId :

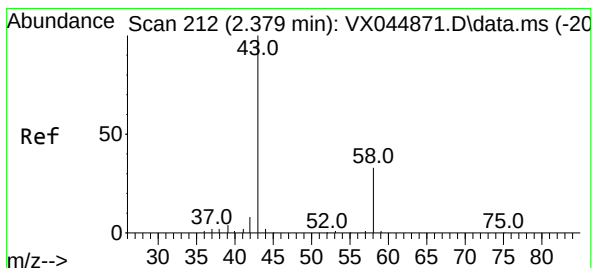
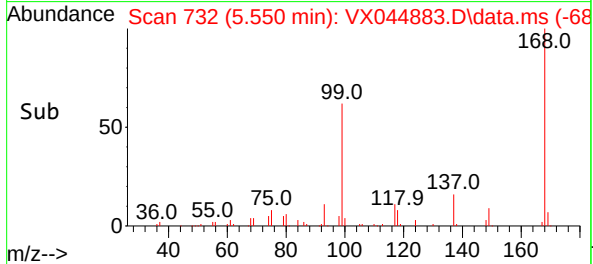
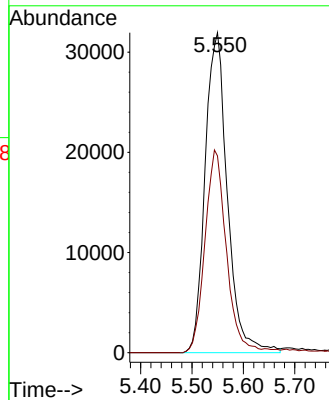
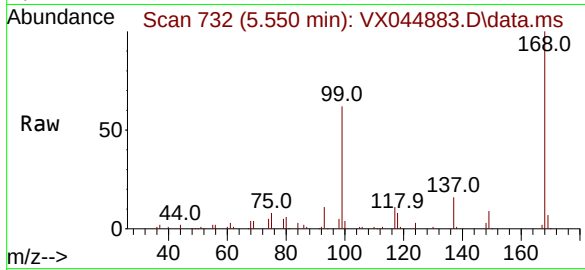
BP-VPB-192-GW-320-322

Tgt Ion:168 Resp: 96132

Ion Ratio Lower Upper

168 100

99 61.5 51.2 76.8



#16

Acetone

Concen: 8.630 ug/l

RT: 2.385 min Scan# 213

Delta R.T. 0.006 min

Lab File: VX044883.D

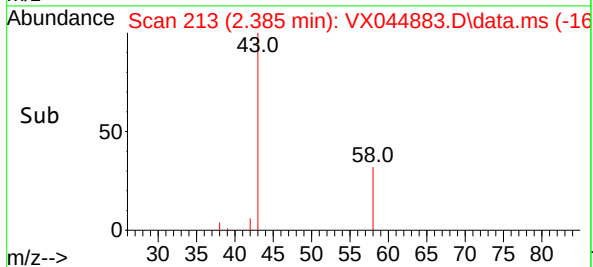
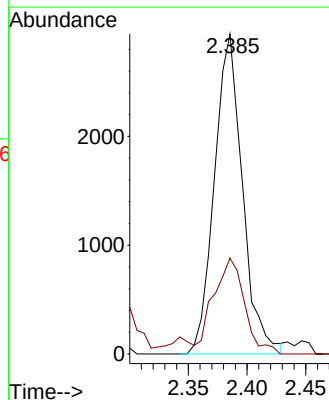
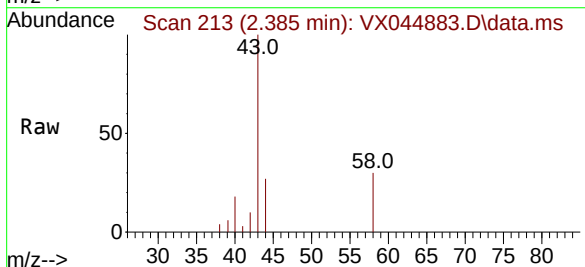
Acq: 10 Feb 2025 16:27

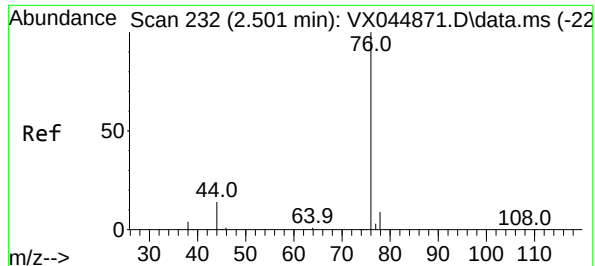
Tgt Ion: 43 Resp: 4882

Ion Ratio Lower Upper

43 100

58 30.0 26.5 39.7





#17

Carbon Disulfide

Concen: 0.505 ug/l

RT: 2.501 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX044883.D

Acq: 10 Feb 2025 16:27

Instrument :

MSVOA_X

ClientSampleId :

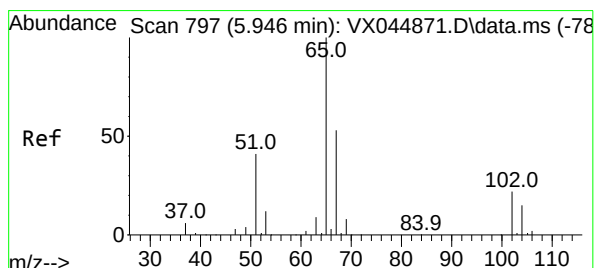
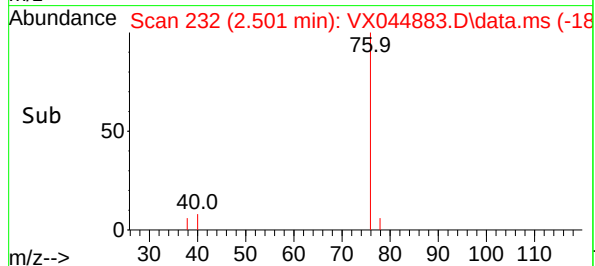
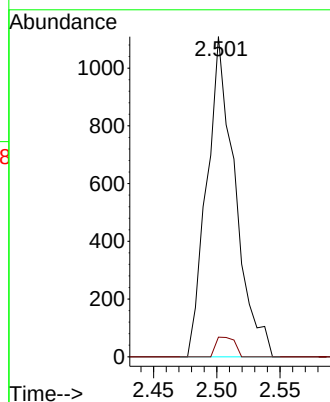
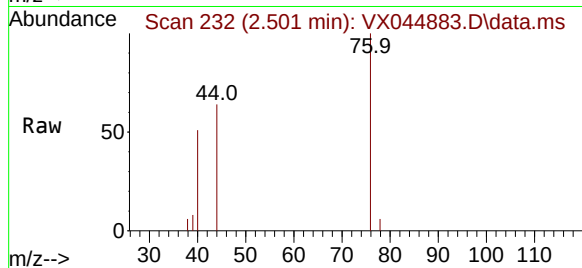
BP-VPB-192-GW-320-322

Tgt Ion: 76 Resp: 1717

Ion Ratio Lower Upper

76 100

78 6.1 7.0 10.4#



#33

1,2-Dichloroethane-d4

Concen: 52.281 ug/l

RT: 5.946 min Scan# 797

Delta R.T. 0.000 min

Lab File: VX044883.D

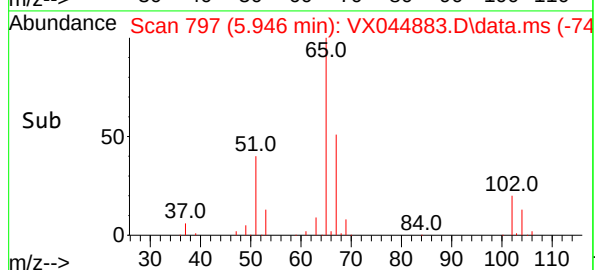
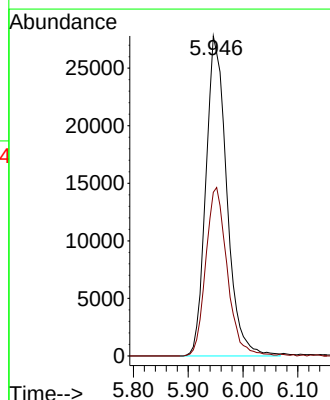
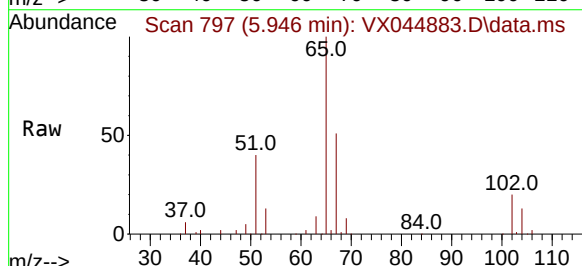
Acq: 10 Feb 2025 16:27

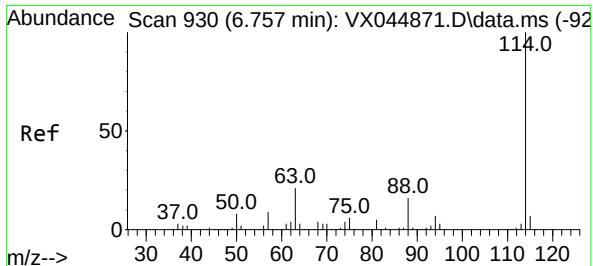
Tgt Ion: 65 Resp: 73570

Ion Ratio Lower Upper

65 100

67 54.0 0.0 108.2

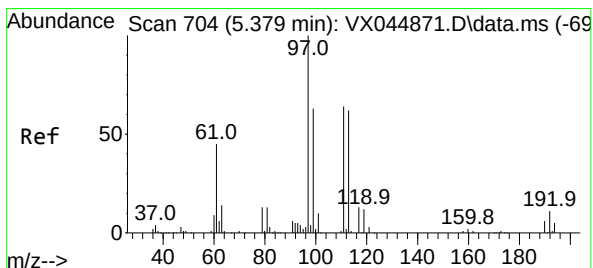
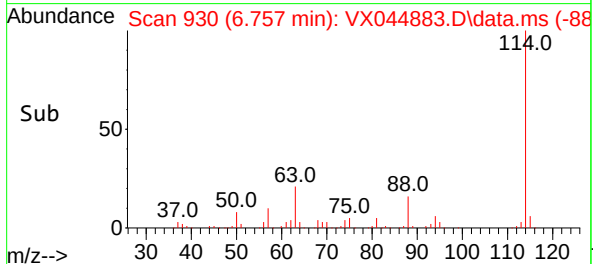
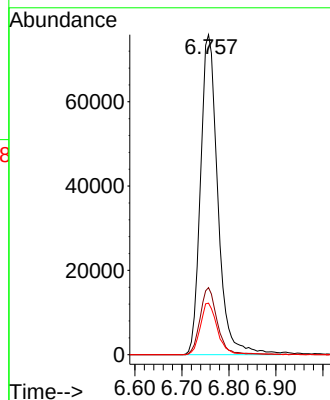
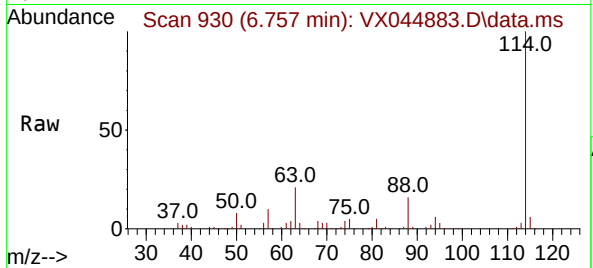




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 914
Delta R.T. 0.000 min
Lab File: VX044883.D
Acq: 10 Feb 2025 16:27

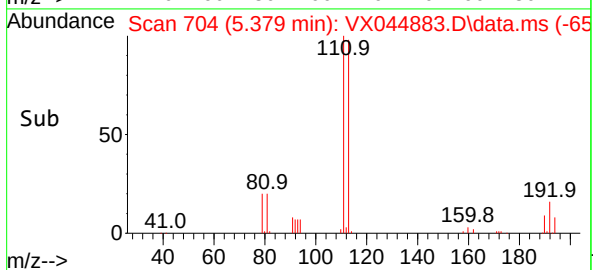
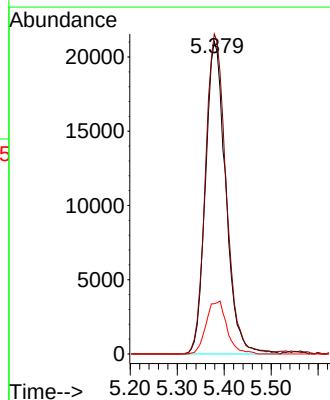
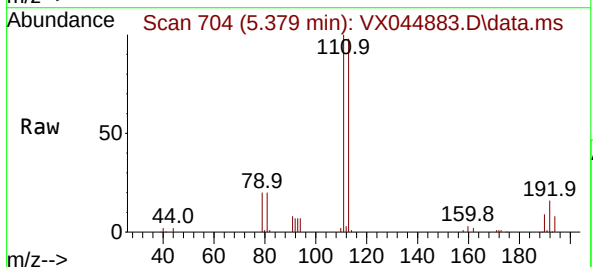
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-320-322

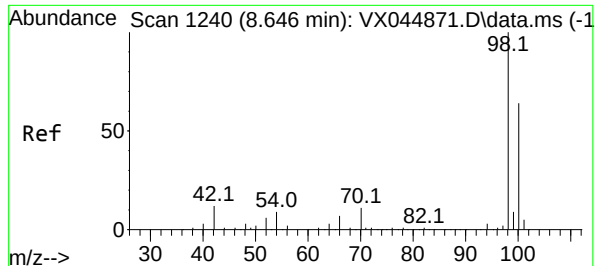
Tgt Ion:114 Resp: 194678
Ion Ratio Lower Upper
114 100
63 20.9 0.0 42.4
88 16.1 0.0 31.4



#35
Dibromofluoromethane
Concen: 49.678 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044883.D
Acq: 10 Feb 2025 16:27

Tgt Ion:113 Resp: 62879
Ion Ratio Lower Upper
113 100
111 104.4 83.5 125.3
192 17.3 14.4 21.6





#50

Toluene-d8

Concen: 50.472 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044883.D

Acq: 10 Feb 2025 16:27

Instrument :

MSVOA_X

ClientSampleId :

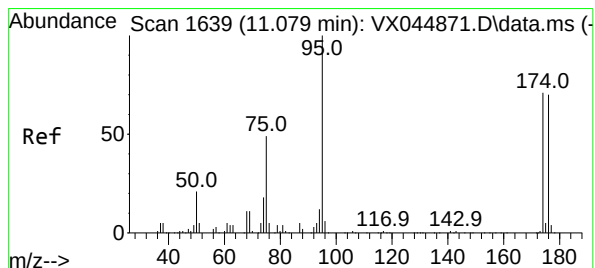
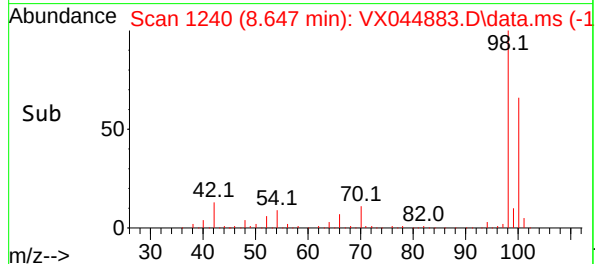
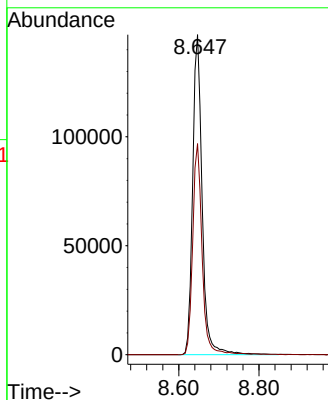
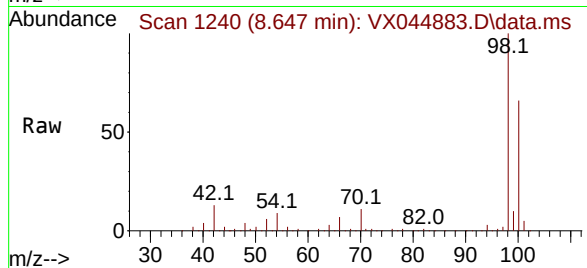
BP-VPB-192-GW-320-322

Tgt Ion: 98 Resp: 241572

Ion Ratio Lower Upper

98 100

100 65.2 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 51.925 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX044883.D

Acq: 10 Feb 2025 16:27

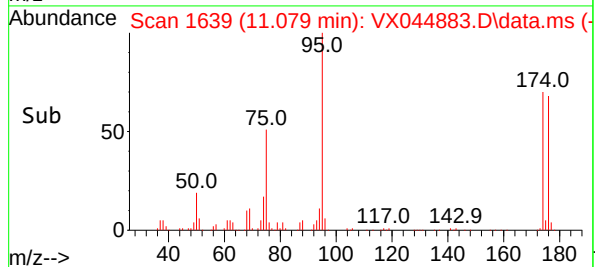
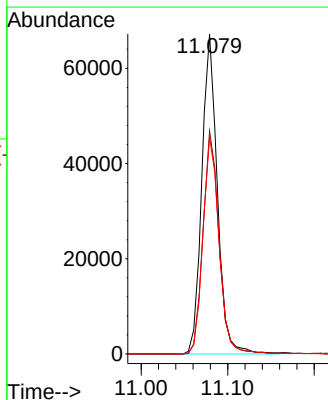
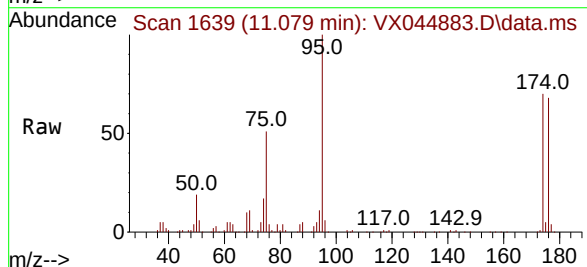
Tgt Ion: 95 Resp: 83784

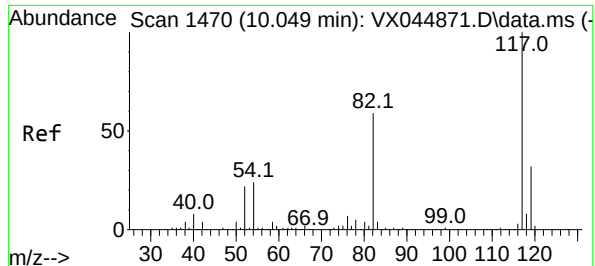
Ion Ratio Lower Upper

95 100

174 71.6 0.0 142.6

176 70.5 0.0 141.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX044883.D

Acq: 10 Feb 2025 16:27

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-320-322

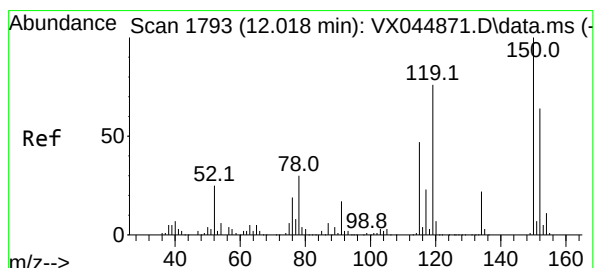
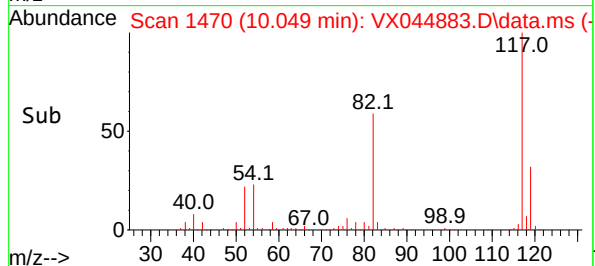
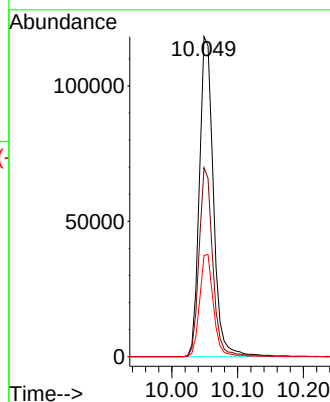
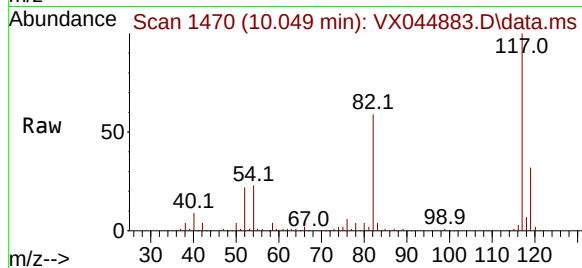
Tgt Ion:117 Resp: 175107

Ion Ratio Lower Upper

117 100

82 59.1 47.5 71.3

119 31.6 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX044883.D

Acq: 10 Feb 2025 16:27

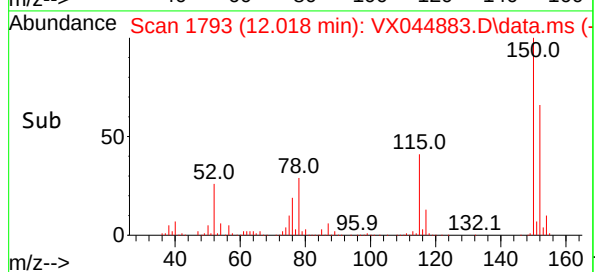
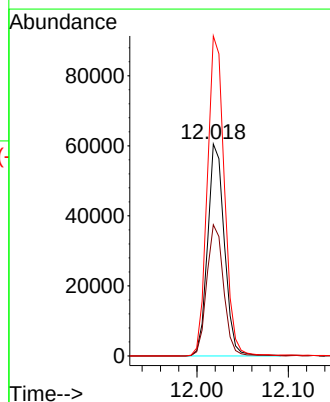
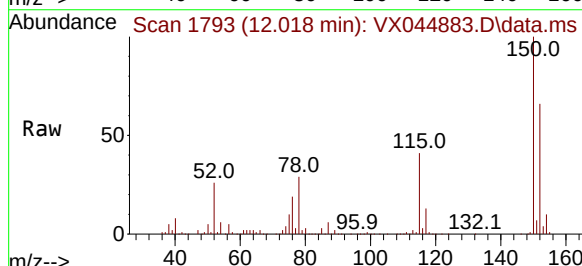
Tgt Ion:152 Resp: 76744

Ion Ratio Lower Upper

152 100

115 62.5 43.4 130.1

150 153.8 0.0 350.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044883.D
 Acq On : 10 Feb 2025 16:27
 Operator : JC/MD
 Sample : Q1250-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-192-GW-320-322

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M

Title : SW846 8260

Signal : TIC: VX044883.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.239	19	25	39	rBV3	5048	12782	2.00%	0.369%
2	1.587	71	82	83	rBV8	4620	13028	2.04%	0.376%
3	2.385	207	213	221	rVB	4538	8473	1.33%	0.245%
4	5.379	692	704	721	rBV2	68937	209091	32.72%	6.034%
5	5.543	721	731	747	rBV2	96141	286012	44.75%	8.254%
6	5.946	787	797	821	rBV2	78066	216358	33.85%	6.244%
7	6.757	921	930	954	rBV	180046	452269	70.76%	13.053%
8	7.598	1062	1068	1076	rBV3	2679	8251	1.29%	0.238%
9	8.647	1233	1240	1260	rBV	391577	639125	100.00%	18.446%
10	9.524	1379	1384	1394	rBV	24678	43847	6.86%	1.265%
11	10.049	1465	1470	1482	rBV	376447	550252	86.09%	15.881%
12	10.860	1598	1603	1613	rBV2	8309	12414	1.94%	0.358%
13	11.079	1634	1639	1654	rBV	312875	398477	62.35%	11.500%
14	11.933	1774	1779	1788	rBV	16530	27091	4.24%	0.782%
15	12.018	1788	1793	1804	rVV	382908	482769	75.54%	13.933%
16	12.853	1925	1930	1945	rBV	76044	104695	16.38%	3.022%

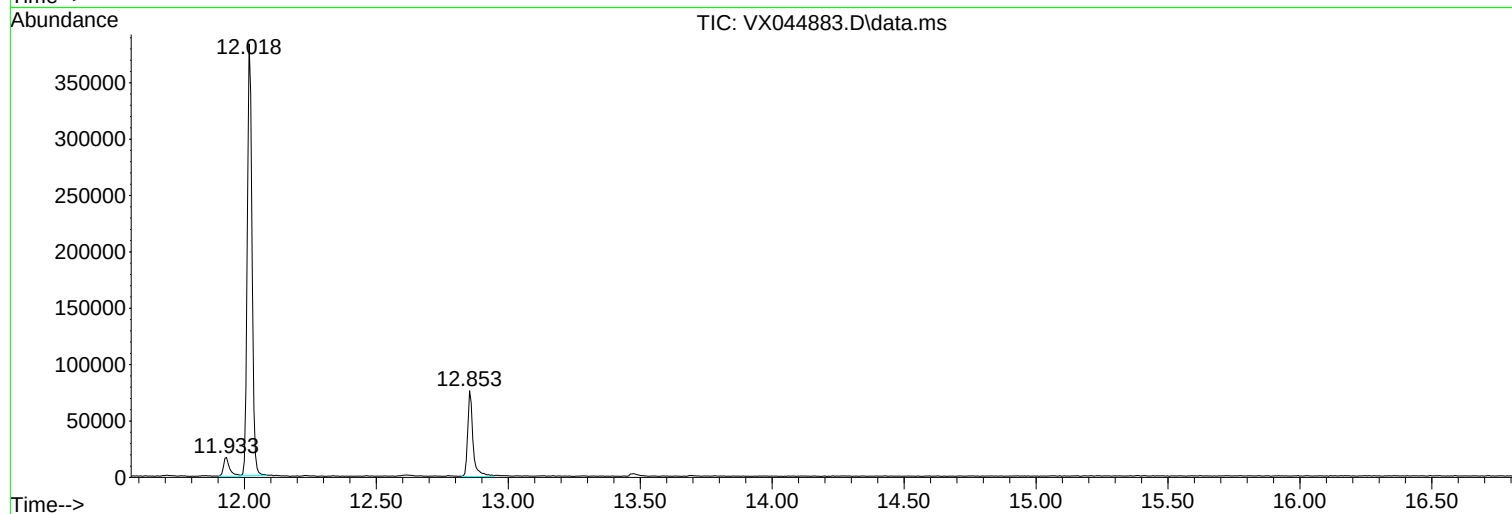
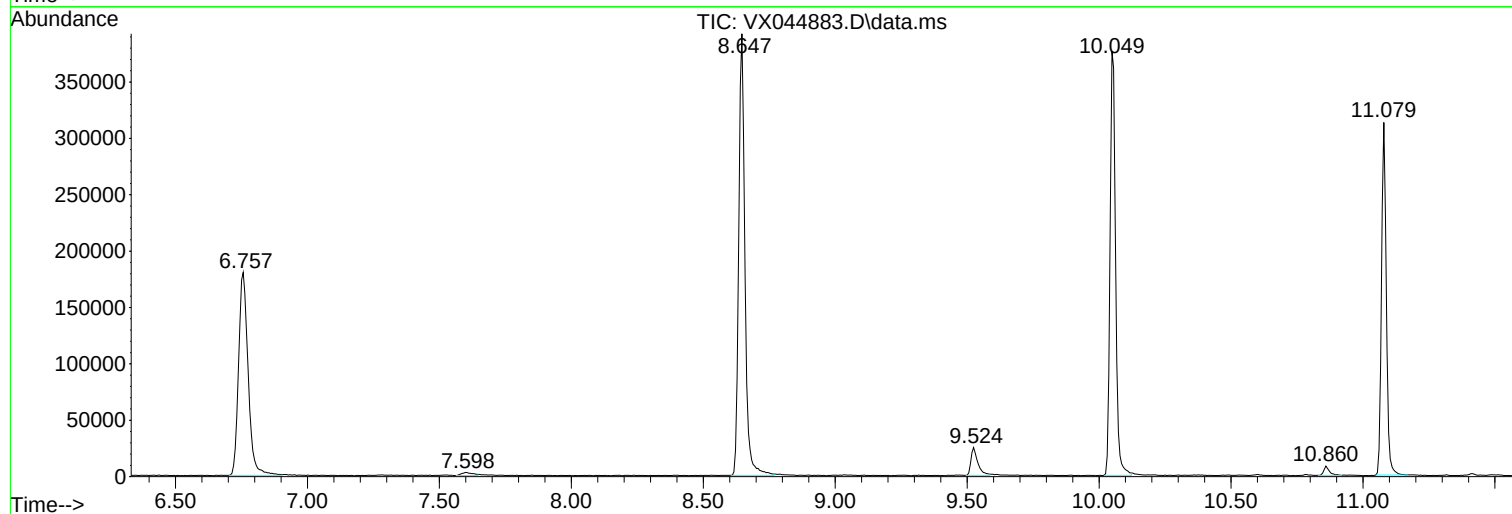
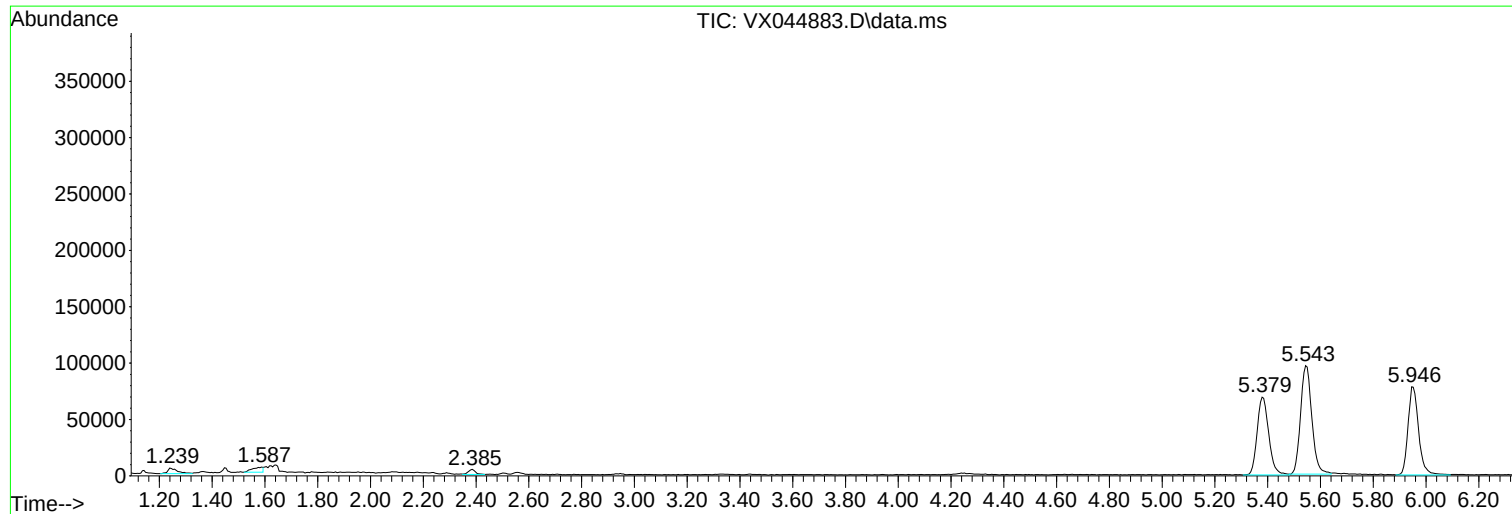
Sum of corrected areas: 3464934

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044883.D
Acq On : 10 Feb 2025 16:27
Operator : JC/MD
Sample : Q1250-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-320-322

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044883.D
Acq On : 10 Feb 2025 16:27
Operator : JC/MD
Sample : Q1250-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-320-322

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044883.D
Acq On : 10 Feb 2025 16:27
Operator : JC/MD
Sample : Q1250-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-320-322

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	01/27/25		
Project:	CTO WE13			Date Received:	01/30/25		
Client Sample ID:	BP-VPB-192-GW-340-342			SDG No.:	Q1250		
Lab Sample ID:	Q1250-05			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044884.D	1		02/10/25 16:51	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	8.70		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.81	J	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/27/25
Project:	CTO WE13	Date Received:	01/30/25
Client Sample ID:	BP-VPB-192-GW-340-342	SDG No.:	Q1250
Lab Sample ID:	Q1250-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044884.D	1		02/10/25 16:51	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.3		81 - 118		105%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	49.7		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.4		85 - 114		105%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	97000	5.544				
540-36-3	1,4-Difluorobenzene	194000	6.757				
3114-55-4	Chlorobenzene-d5	176000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	75900	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/27/25	
Project:	CTO WE13		Date Received:	01/30/25	
Client Sample ID:	BP-VPB-192-GW-340-342		SDG No.:	Q1250	
Lab Sample ID:	Q1250-05		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044884.D	1		02/10/25 16:51	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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\VX021025\
 Data File : VX044884.D
 Acq On : 10 Feb 2025 16:51
 Operator : JC/MD
 Sample : Q1250-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-192-GW-340-342

Quant Time: Feb 11 06:07:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration

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

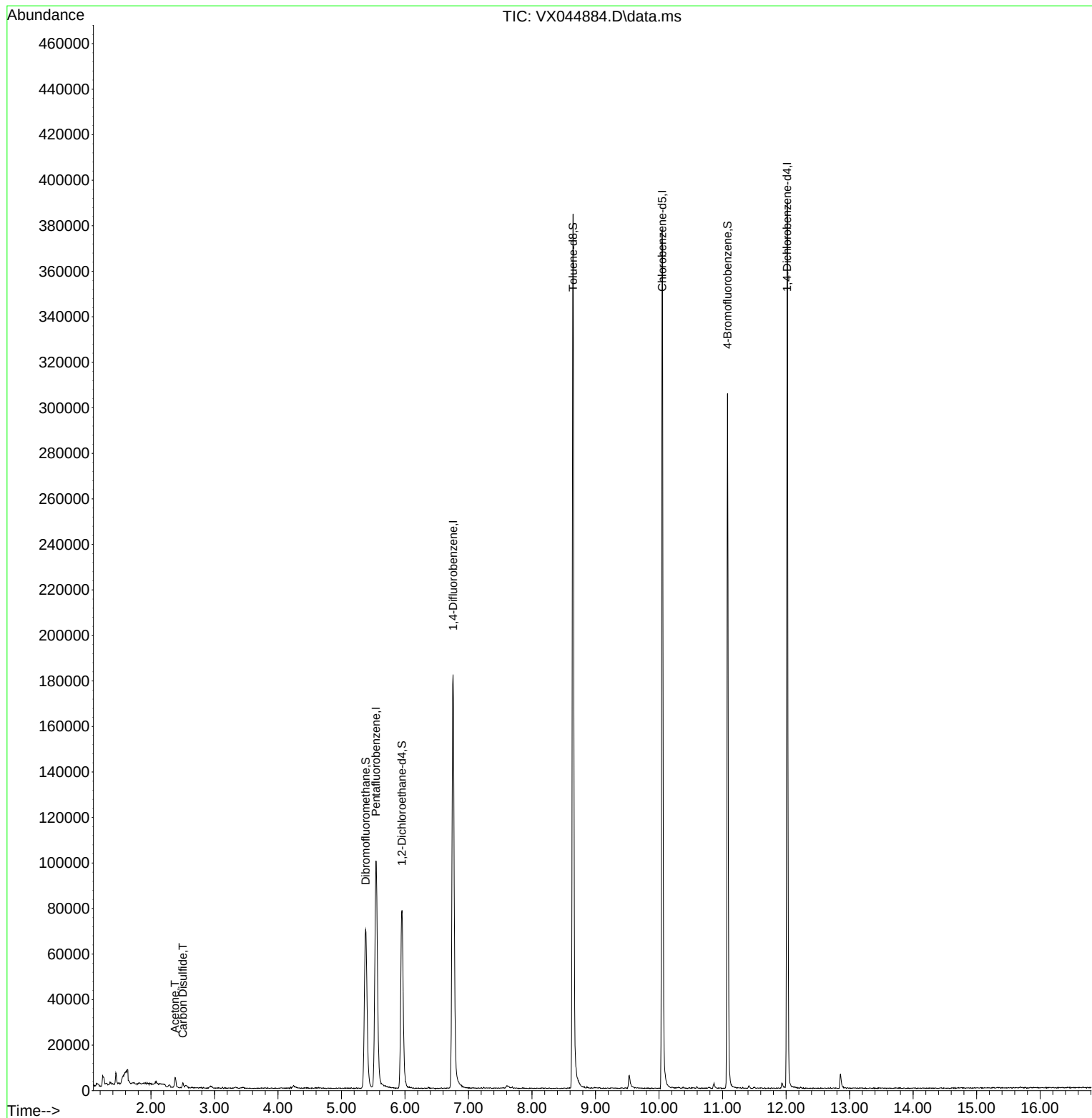
Internal Standards						
1) Pentafluorobenzene	5.544	168	96963	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	193723	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	175745	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	75903	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	74198	52.276	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 104.560%	
35) Dibromofluoromethane	5.379	113	64354	51.094	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.180%	
50) Toluene-d8	8.647	98	236798	49.719	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 99.440%	
62) 4-Bromofluorobenzene	11.079	95	84055	52.350	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 104.700%	
Target Compounds						
					Qvalue	
16) Acetone	2.380	43	4967	8.705	ug/l #	86
17) Carbon Disulfide	2.502	76	2776	0.810	ug/l	99

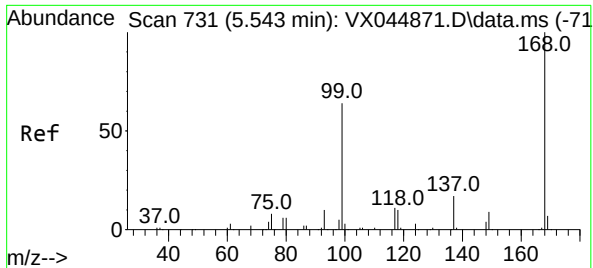
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044884.D
Acq On : 10 Feb 2025 16:51
Operator : JC/MD
Sample : Q1250-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-340-342

Quant Time: Feb 11 06:07:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.544 min Scan# 71

Delta R.T. 0.001 min

Lab File: VX044884.D

Acq: 10 Feb 2025 16:51

Instrument :

MSVOA_X

ClientSampleId :

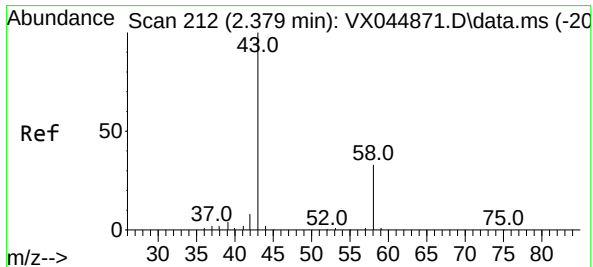
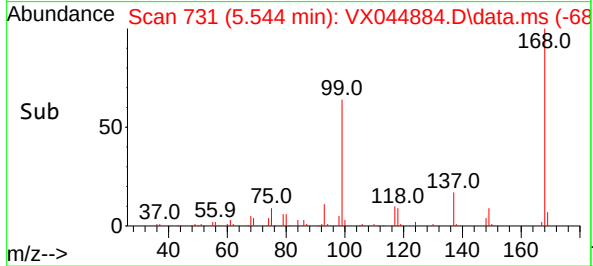
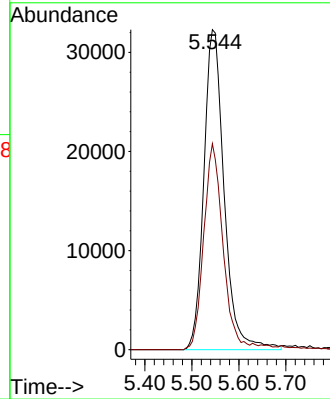
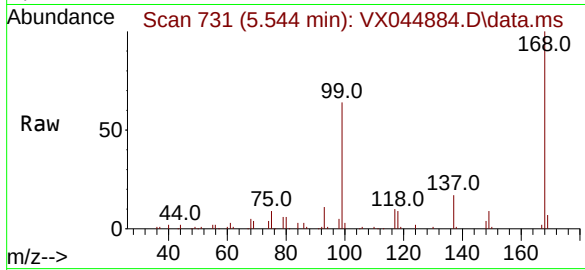
BP-VPB-192-GW-340-342

Tgt Ion:168 Resp: 96963

Ion Ratio Lower Upper

168 100

99 64.3 51.2 76.8



#16

Acetone

Concen: 8.705 ug/l

RT: 2.380 min Scan# 212

Delta R.T. 0.000 min

Lab File: VX044884.D

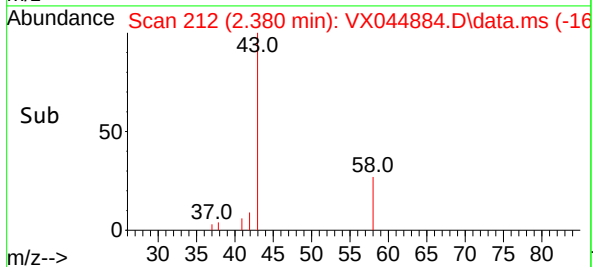
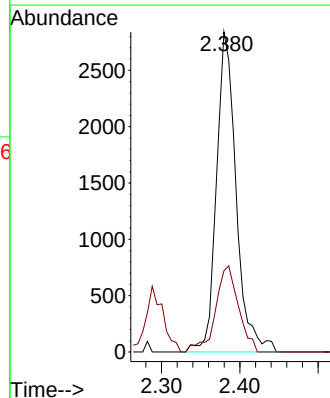
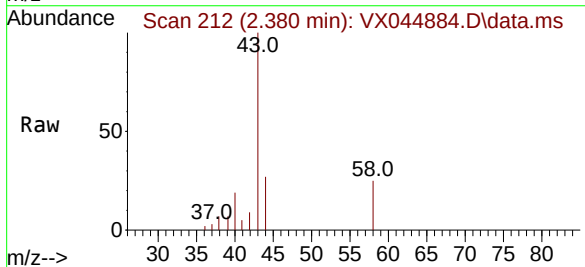
Acq: 10 Feb 2025 16:51

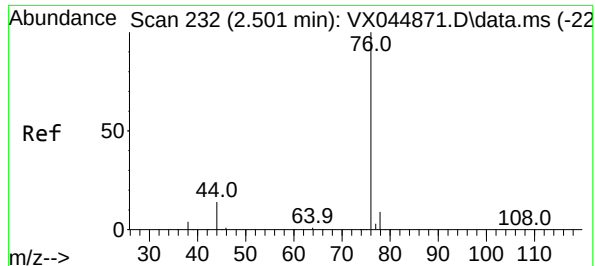
Tgt Ion: 43 Resp: 4967

Ion Ratio Lower Upper

43 100

58 25.3 26.5 39.7#





#17

Carbon Disulfide

Concen: 0.810 ug/l

RT: 2.502 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX044884.D

Acq: 10 Feb 2025 16:51

Instrument :

MSVOA_X

ClientSampleId :

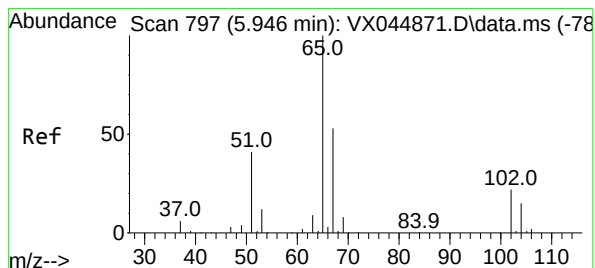
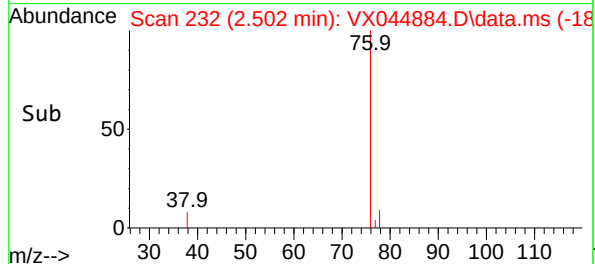
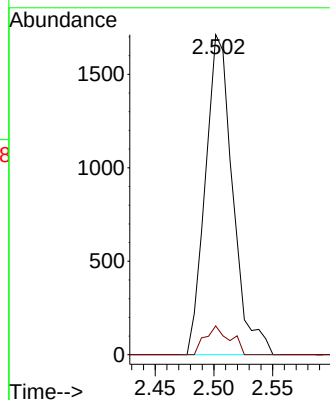
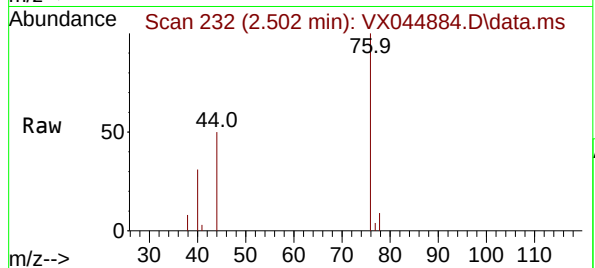
BP-VPB-192-GW-340-342

Tgt Ion: 76 Resp: 2776

Ion Ratio Lower Upper

76 100

78 9.0 7.0 10.4



#33

1,2-Dichloroethane-d4

Concen: 52.276 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX044884.D

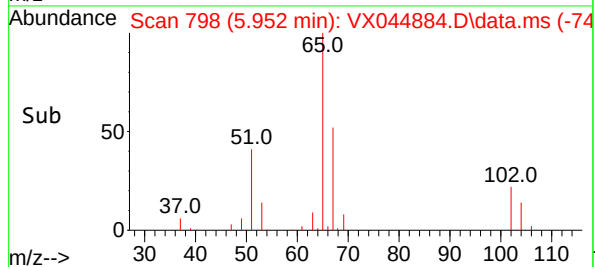
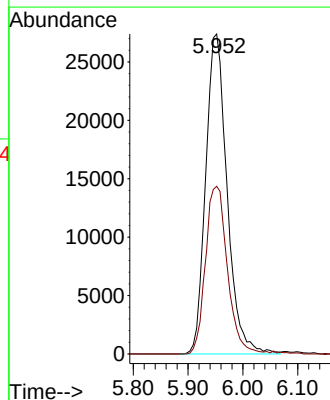
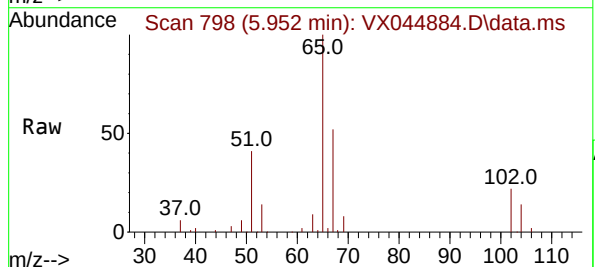
Acq: 10 Feb 2025 16:51

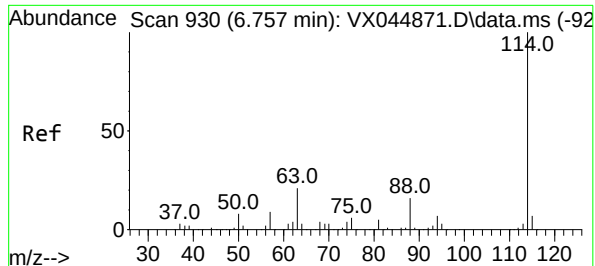
Tgt Ion: 65 Resp: 74198

Ion Ratio Lower Upper

65 100

67 53.7 0.0 108.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX044884.D

Acq: 10 Feb 2025 16:51

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-340-342

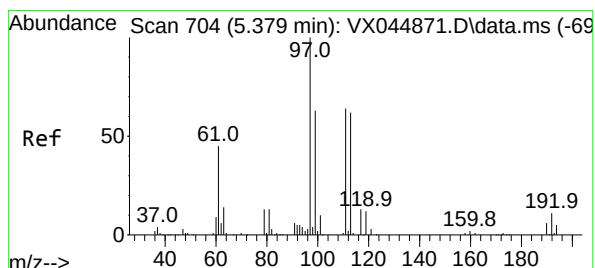
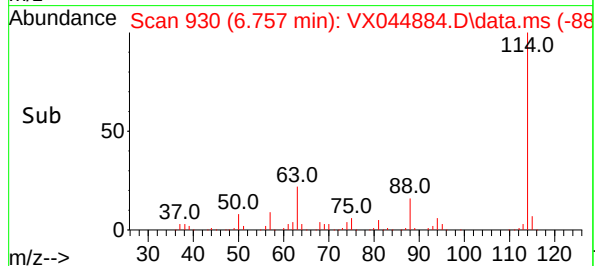
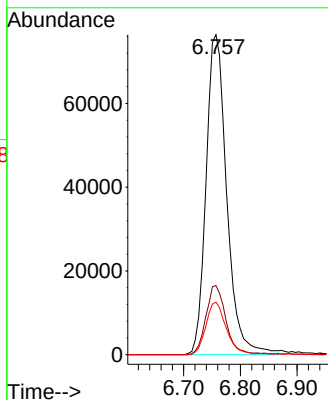
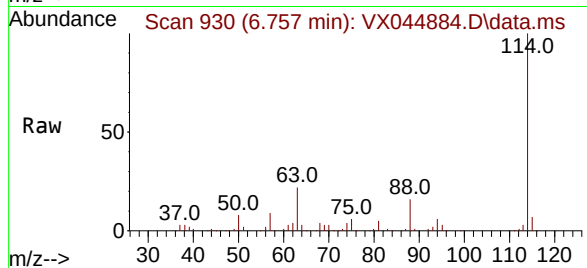
Tgt Ion:114 Resp: 193723

Ion Ratio Lower Upper

114 100

63 21.6 0.0 42.4

88 16.4 0.0 31.4



#35

Dibromofluoromethane

Concen: 51.094 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044884.D

Acq: 10 Feb 2025 16:51

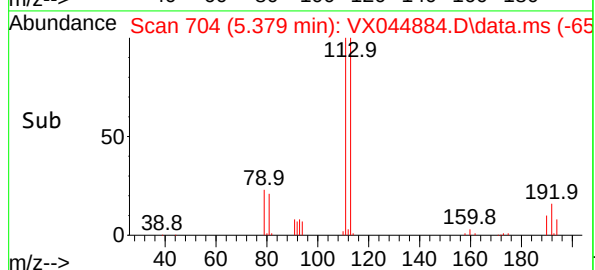
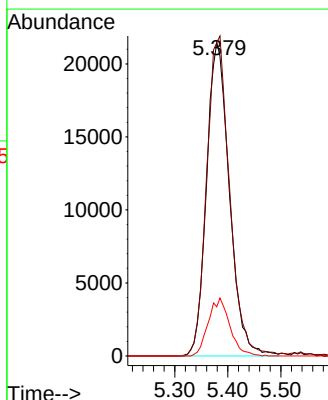
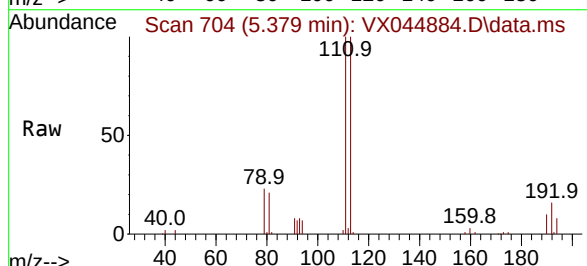
Tgt Ion:113 Resp: 64354

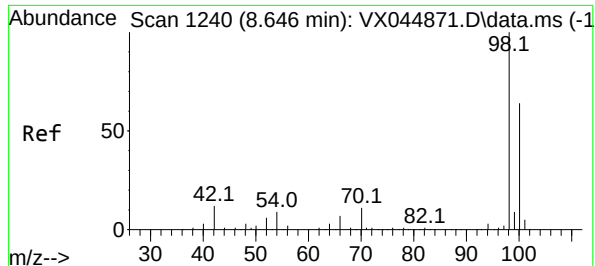
Ion Ratio Lower Upper

113 100

111 102.1 83.5 125.3

192 17.4 14.4 21.6





#50

Toluene-d8

Concen: 49.719 ug/l

RT: 8.647 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX044884.D

Acq: 10 Feb 2025 16:51

Instrument :

MSVOA_X

ClientSampleId :

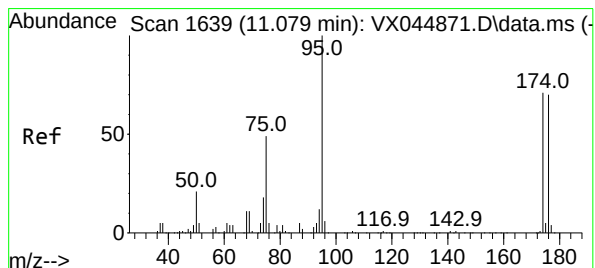
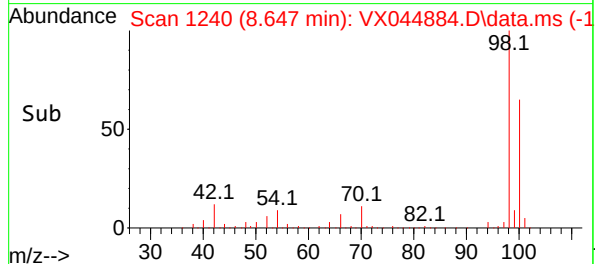
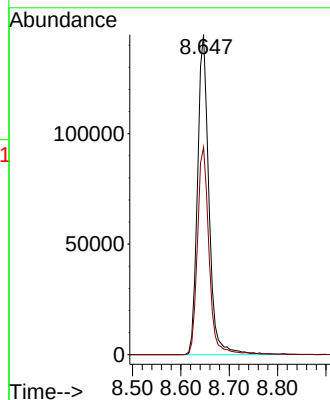
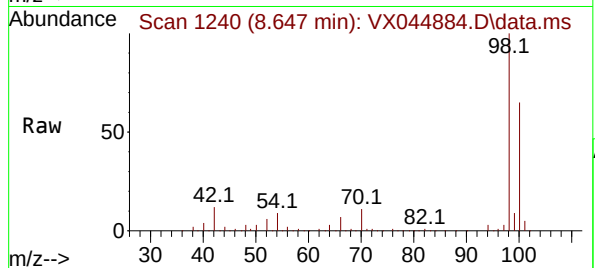
BP-VPB-192-GW-340-342

Tgt Ion: 98 Resp: 236798

Ion Ratio Lower Upper

98 100

100 66.2 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 52.350 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX044884.D

Acq: 10 Feb 2025 16:51

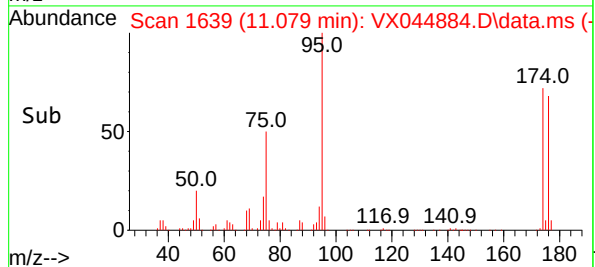
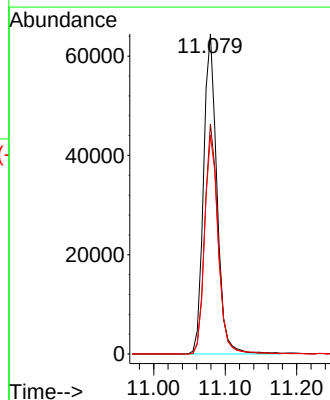
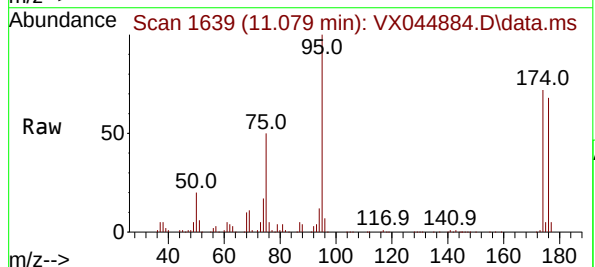
Tgt Ion: 95 Resp: 84055

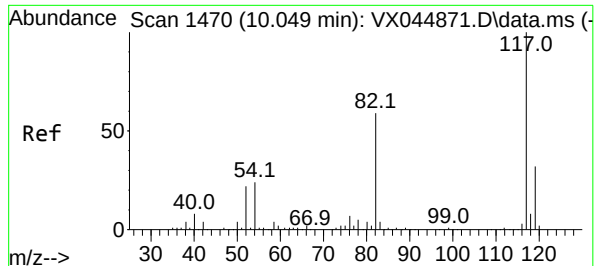
Ion Ratio Lower Upper

95 100

174 71.7 0.0 142.6

176 69.5 0.0 141.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX044884.D

Acq: 10 Feb 2025 16:51

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-340-342

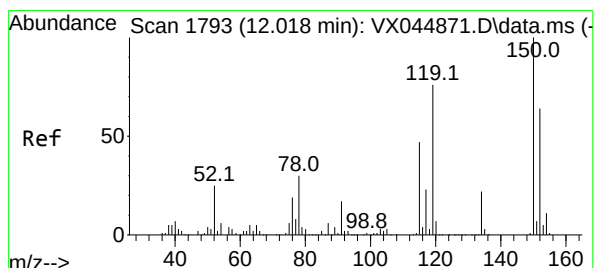
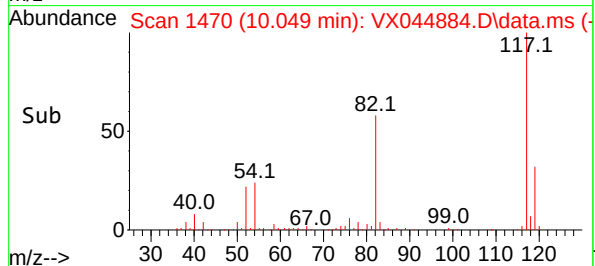
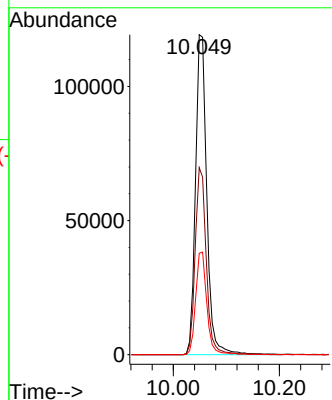
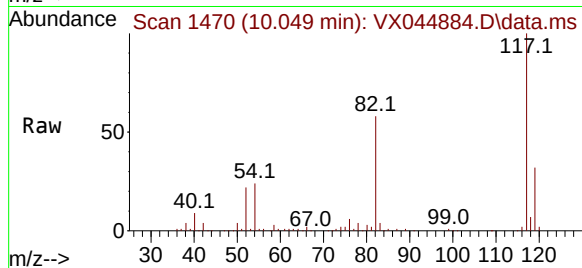
Tgt Ion:117 Resp: 175745

Ion Ratio Lower Upper

117 100

82 58.5 47.5 71.3

119 31.7 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX044884.D

Acq: 10 Feb 2025 16:51

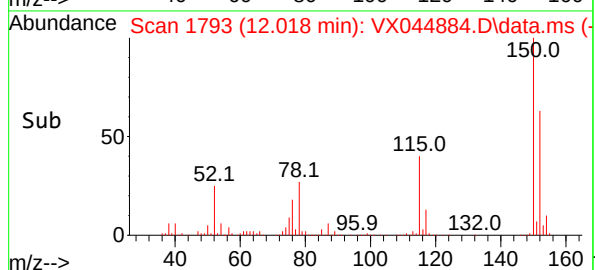
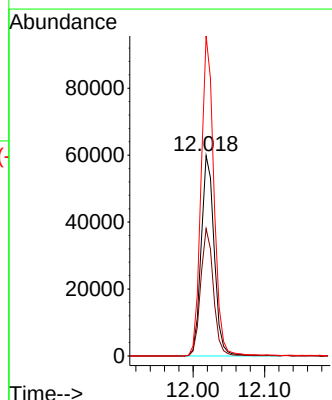
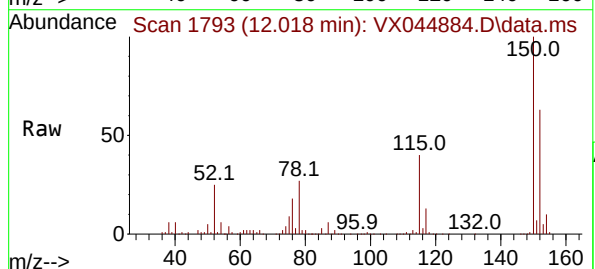
Tgt Ion:152 Resp: 75903

Ion Ratio Lower Upper

152 100

115 62.3 43.4 130.1

150 157.4 0.0 350.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044884.D
 Acq On : 10 Feb 2025 16:51
 Operator : JC/MD
 Sample : Q1250-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-192-GW-340-342

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M

Title : SW846 8260

Signal : TIC: VX044884.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.240	21	25	31	rBV3	4687	9563	1.51%	0.292%
2	1.447	55	59	64	rBV	5171	6516	1.03%	0.199%
3	1.563	71	78	79	rBV3	3718	6844	1.08%	0.209%
4	2.380	206	212	217	rBV	4364	7296	1.15%	0.222%
5	5.379	692	704	719	rBV3	69779	211452	33.31%	6.448%
6	5.544	721	731	744	rBV	99188	285849	45.03%	8.716%
7	5.952	789	798	812	rBV2	78105	212986	33.55%	6.494%
8	6.757	921	930	947	rBV	181617	454134	71.54%	13.848%
9	8.647	1233	1240	1264	rBV	384079	634807	100.00%	19.357%
10	9.531	1380	1385	1391	rBV4	5784	11363	1.79%	0.346%
11	10.049	1465	1470	1487	rBV	377482	552050	86.96%	16.833%
12	11.079	1634	1639	1653	rBV	304903	395899	62.37%	12.072%
13	12.018	1788	1793	1805	rVV	388841	480388	75.67%	14.648%
14	12.859	1927	1931	1937	rBV4	6251	10346	1.63%	0.315%

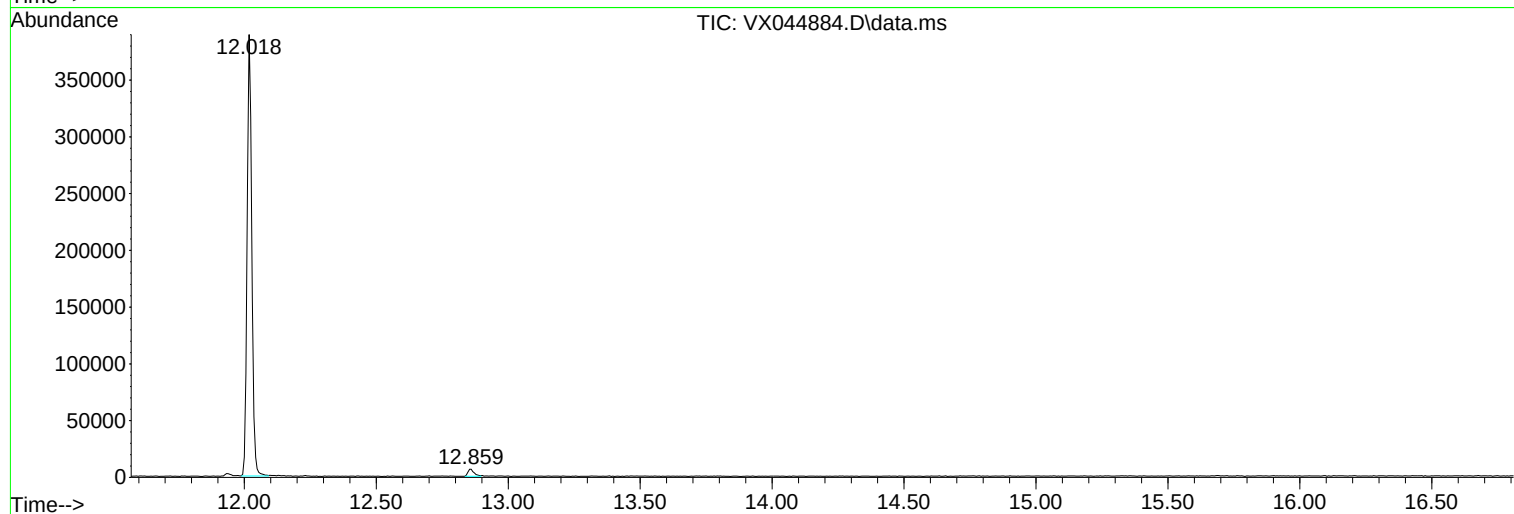
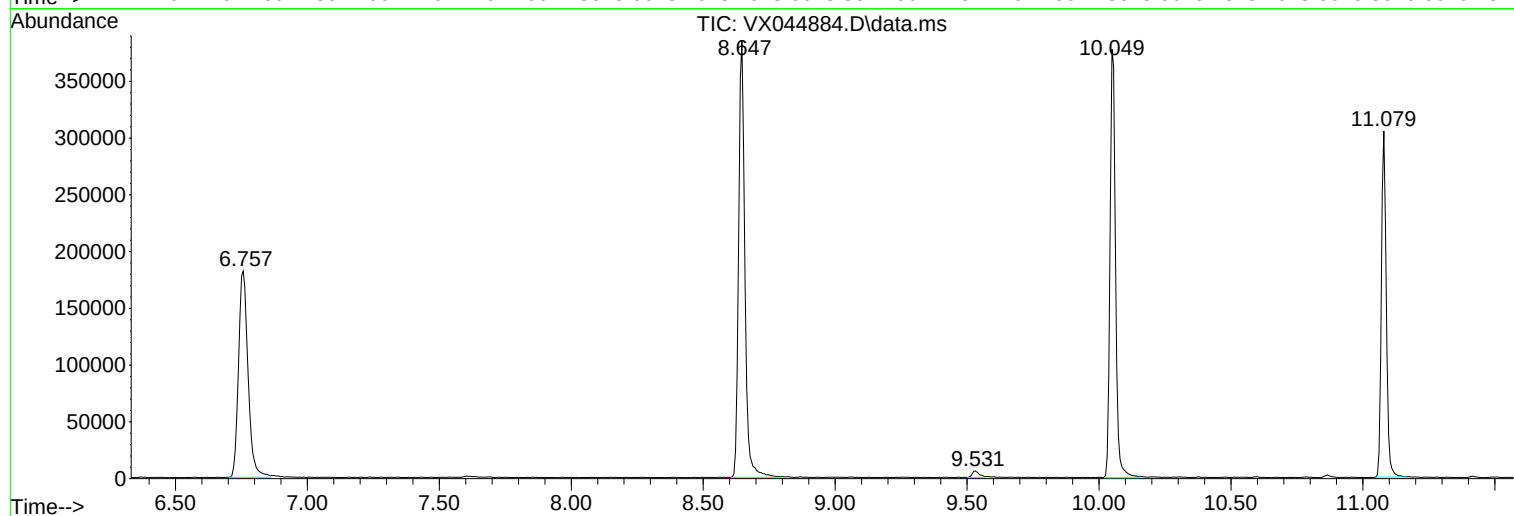
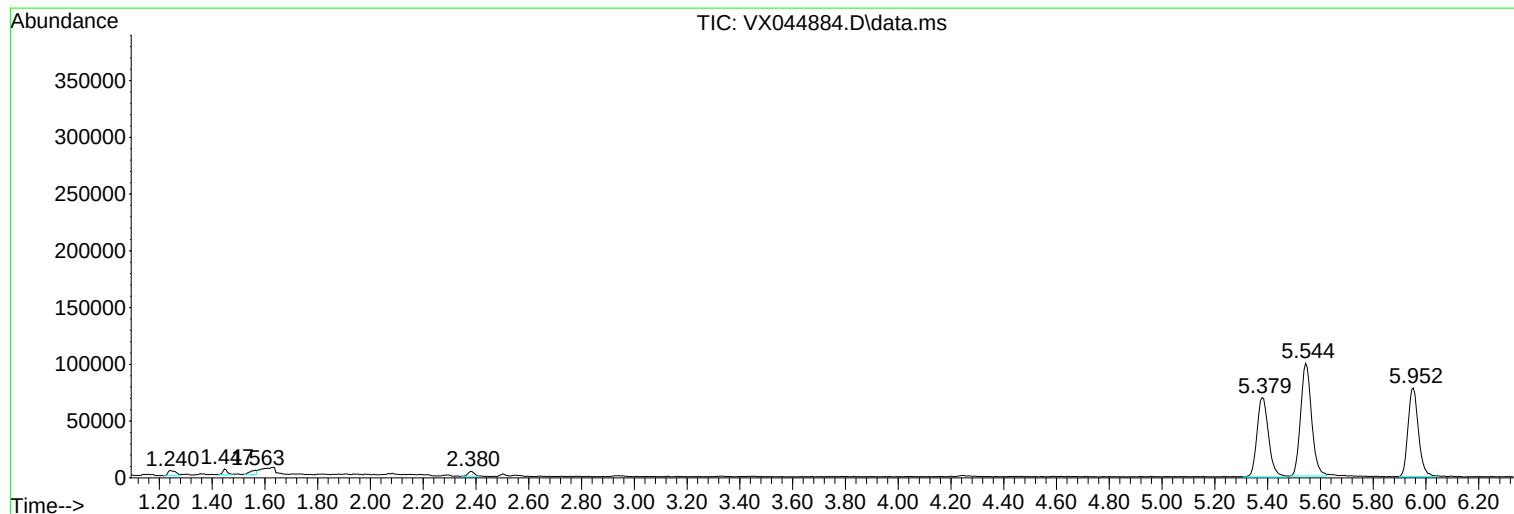
Sum of corrected areas: 3279493

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044884.D
Acq On : 10 Feb 2025 16:51
Operator : JC/MD
Sample : Q1250-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-340-342

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044884.D
Acq On : 10 Feb 2025 16:51
Operator : JC/MD
Sample : Q1250-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-340-342

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044884.D
Acq On : 10 Feb 2025 16:51
Operator : JC/MD
Sample : Q1250-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-340-342

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	01/28/25	
Project:	CTO WE13			Date Received:	01/30/25	
Client Sample ID:	BP-VPB-192-GW-360-362			SDG No.:	Q1250	
Lab Sample ID:	Q1250-06			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044888.D	1		02/10/25 18:23	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	4.80	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/28/25
Project:	CTO WE13	Date Received:	01/30/25
Client Sample ID:	BP-VPB-192-GW-360-362	SDG No.:	Q1250
Lab Sample ID:	Q1250-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044888.D	1		02/10/25 18:23	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.6		81 - 118		105%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	51.0		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.2		85 - 114		106%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	93900	5.543				
540-36-3	1,4-Difluorobenzene	188000	6.757				
3114-55-4	Chlorobenzene-d5	174000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	73200	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/28/25	
Project:	CTO WE13		Date Received:	01/30/25	
Client Sample ID:	BP-VPB-192-GW-360-362		SDG No.:	Q1250	
Lab Sample ID:	Q1250-06		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044888.D	1		02/10/25 18:23	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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\VX021025\
 Data File : VX044888.D
 Acq On : 10 Feb 2025 18:23
 Operator : JC/MD
 Sample : Q1250-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-192-GW-360-362

Quant Time: Feb 11 06:09:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration

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

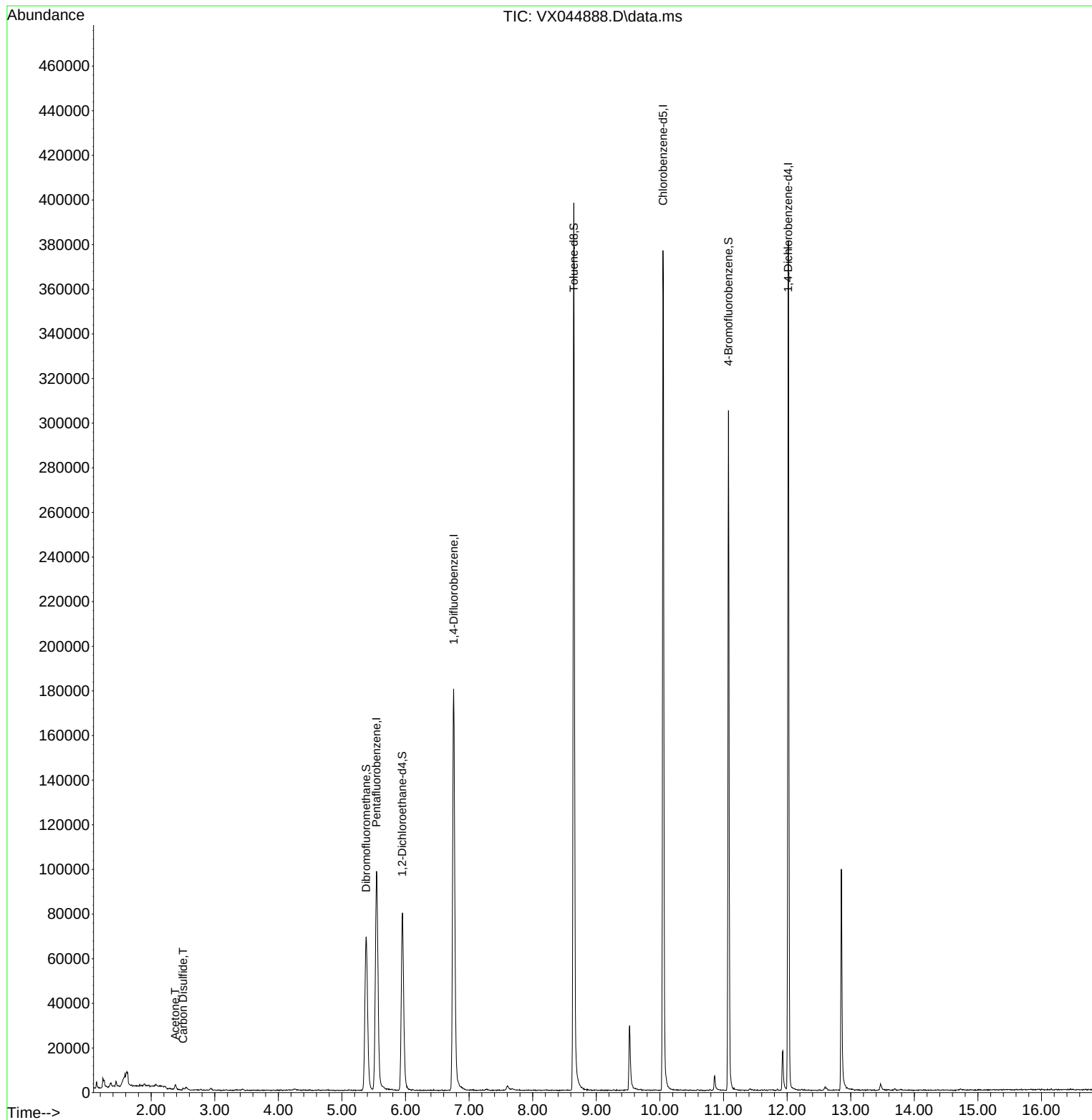
Internal Standards						
1) Pentafluorobenzene	5.543	168	93911	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	187948	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	173877	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	73228	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	72312	52.602	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	105.200%
35) Dibromofluoromethane	5.379	113	62542	51.181	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.360%
50) Toluene-d8	8.646	98	235663	51.001	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.000%
62) 4-Bromofluorobenzene	11.079	95	82802	53.154	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	106.300%
Target Compounds						
						Qvalue
16) Acetone	2.379	43	2643	4.783	ug/l	97
17) Carbon Disulfide	2.501	76	953	0.287	ug/l #	88

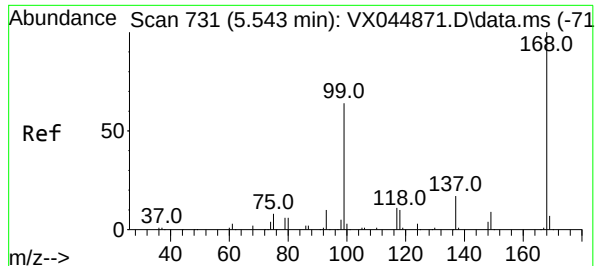
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044888.D
Acq On : 10 Feb 2025 18:23
Operator : JC/MD
Sample : Q1250-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362

Quant Time: Feb 11 06:09:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.543 min Scan# 71

Delta R.T. 0.000 min

Lab File: VX044888.D

Acq: 10 Feb 2025 18:23

Instrument :

MSVOA_X

ClientSampleId :

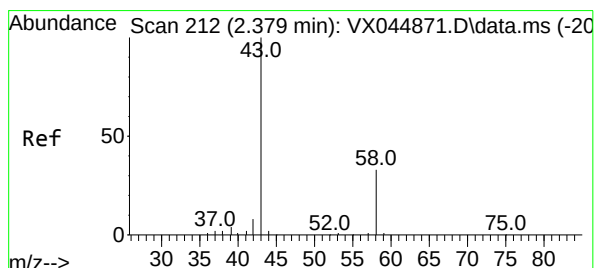
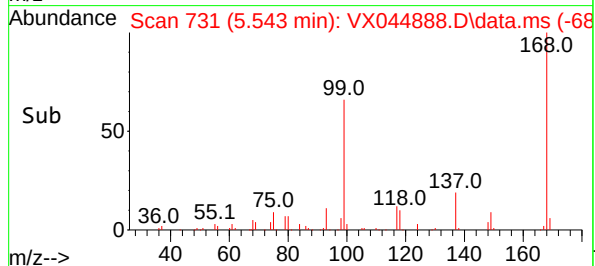
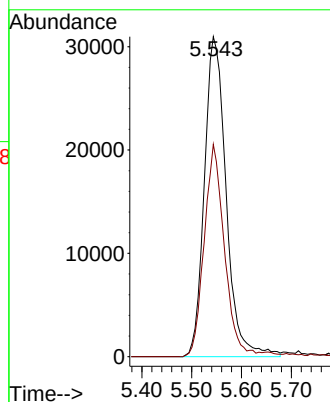
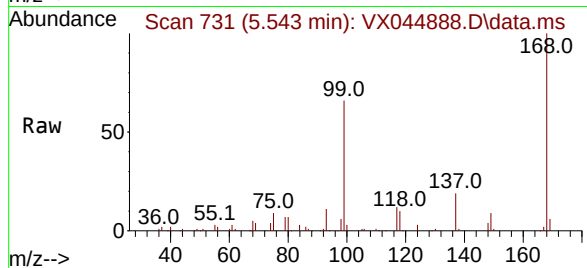
BP-VPB-192-GW-360-362

Tgt Ion:168 Resp: 93911

Ion Ratio Lower Upper

168 100

99 66.3 51.2 76.8



#16

Acetone

Concen: 4.783 ug/l

RT: 2.379 min Scan# 212

Delta R.T. 0.000 min

Lab File: VX044888.D

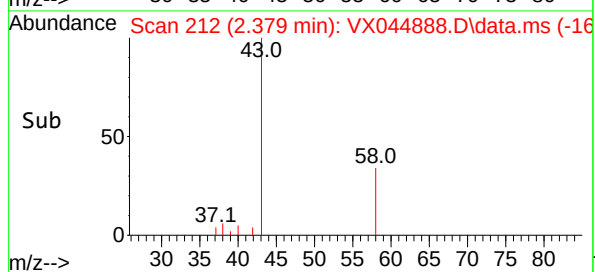
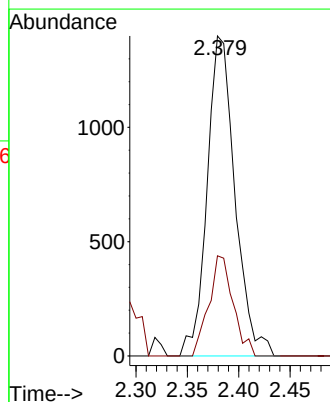
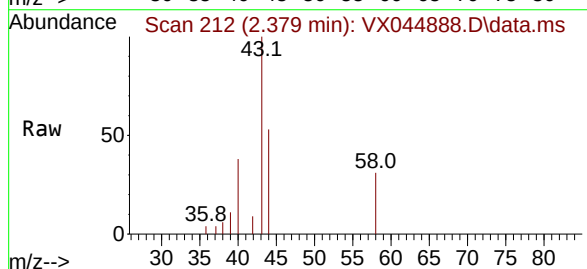
Acq: 10 Feb 2025 18:23

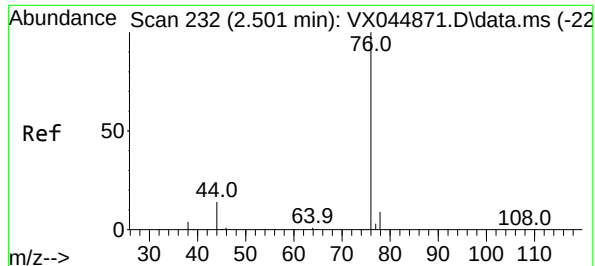
Tgt Ion: 43 Resp: 2643

Ion Ratio Lower Upper

43 100

58 31.3 26.5 39.7





#17

Carbon Disulfide

Concen: 0.287 ug/l

RT: 2.501 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX044888.D

Acq: 10 Feb 2025 18:23

Instrument :

MSVOA_X

ClientSampleId :

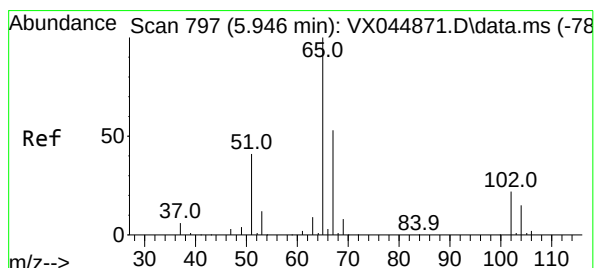
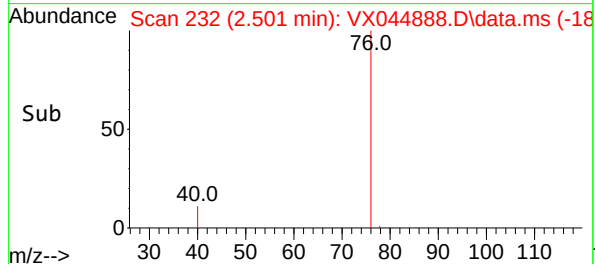
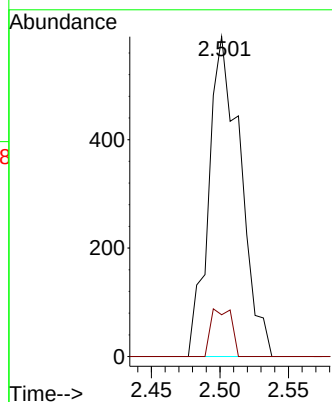
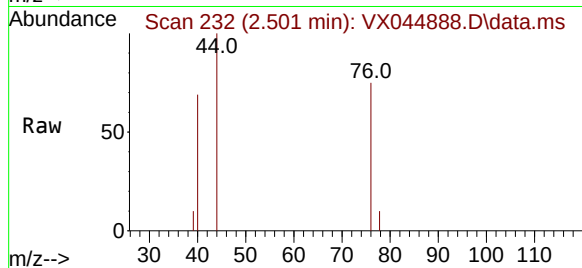
BP-VPB-192-GW-360-362

Tgt Ion: 76 Resp: 953

Ion Ratio Lower Upper

76 100

78 13.1 7.0 10.4#



#33

1,2-Dichloroethane-d4

Concen: 52.602 ug/l

RT: 5.946 min Scan# 797

Delta R.T. 0.000 min

Lab File: VX044888.D

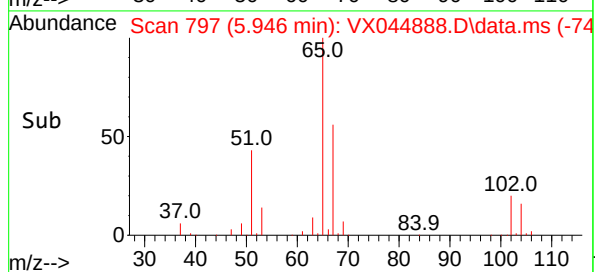
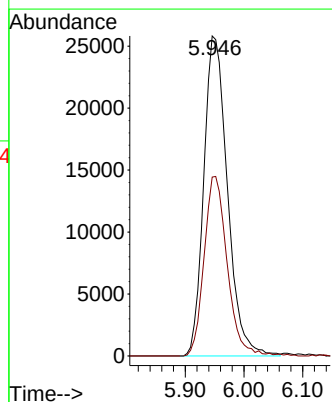
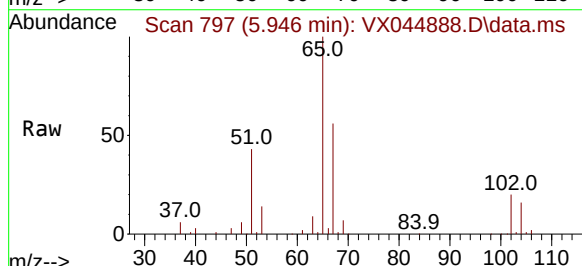
Acq: 10 Feb 2025 18:23

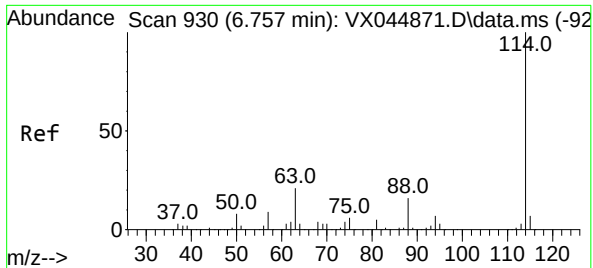
Tgt Ion: 65 Resp: 72312

Ion Ratio Lower Upper

65 100

67 54.9 0.0 108.2

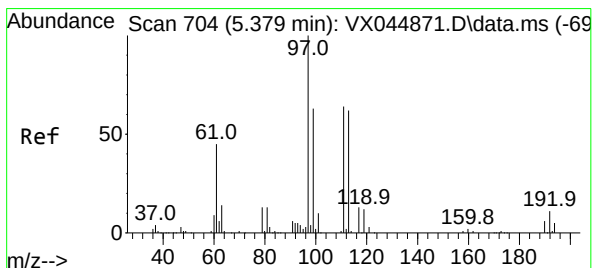
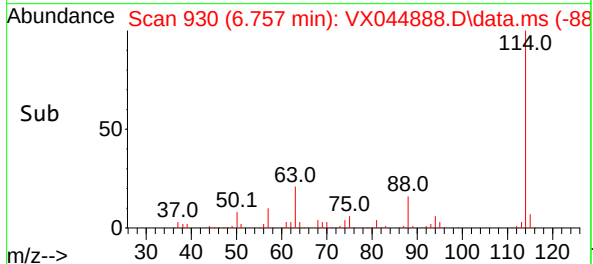
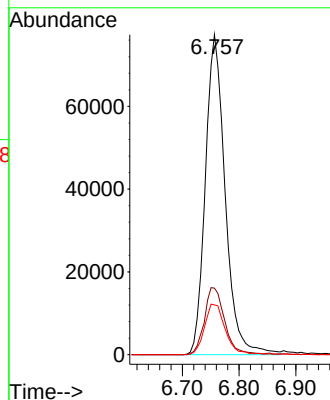
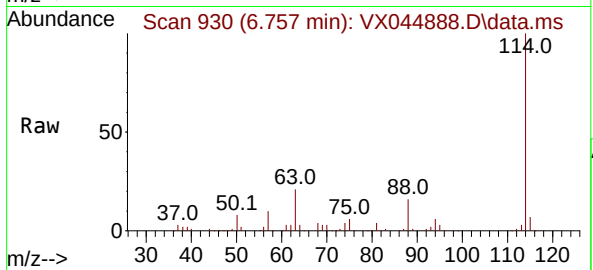




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX044888.D
Acq: 10 Feb 2025 18:23

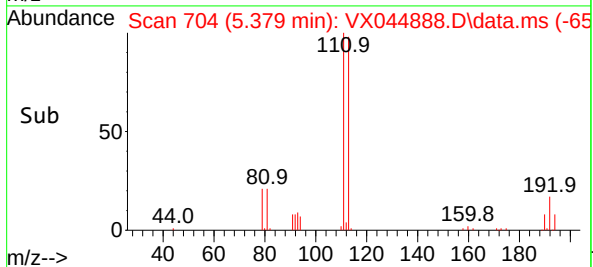
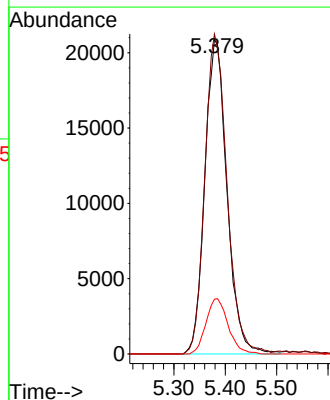
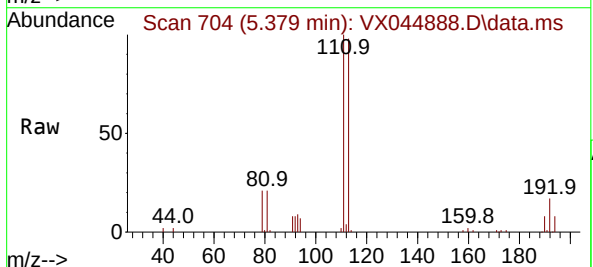
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362

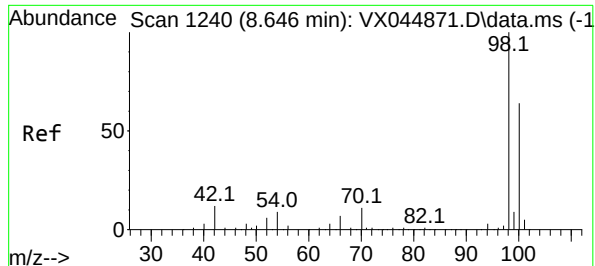
Tgt Ion:114 Resp: 187948
Ion Ratio Lower Upper
114 100
63 20.8 0.0 42.4
88 15.6 0.0 31.4



#35
Dibromofluoromethane
Concen: 51.181 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044888.D
Acq: 10 Feb 2025 18:23

Tgt Ion:113 Resp: 62542
Ion Ratio Lower Upper
113 100
111 101.9 83.5 125.3
192 17.6 14.4 21.6





#50

Toluene-d8

Concen: 51.001 ug/l

RT: 8.646 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044888.D

Acq: 10 Feb 2025 18:23

Instrument :

MSVOA_X

ClientSampleId :

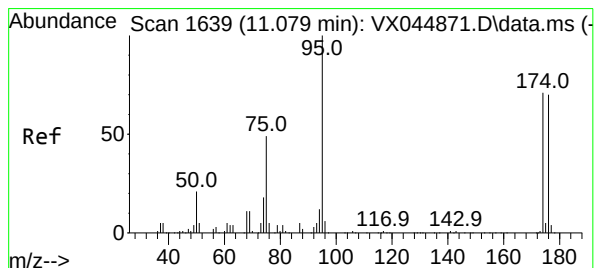
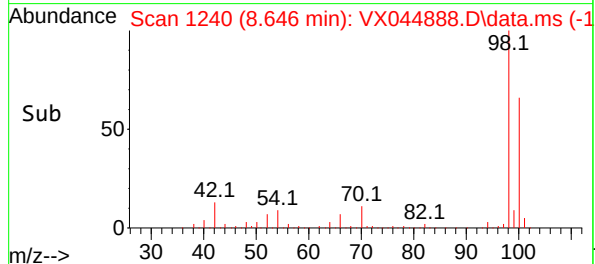
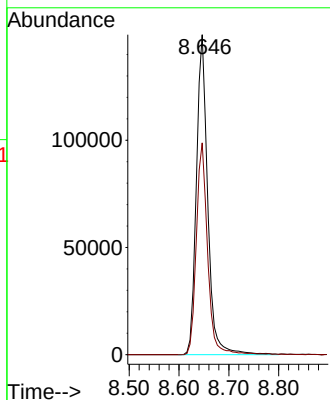
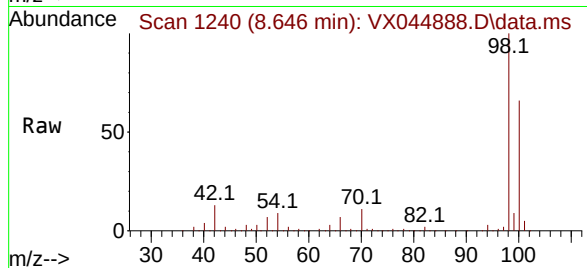
BP-VPB-192-GW-360-362

Tgt Ion: 98 Resp: 235663

Ion Ratio Lower Upper

98 100

100 66.0 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 53.154 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX044888.D

Acq: 10 Feb 2025 18:23

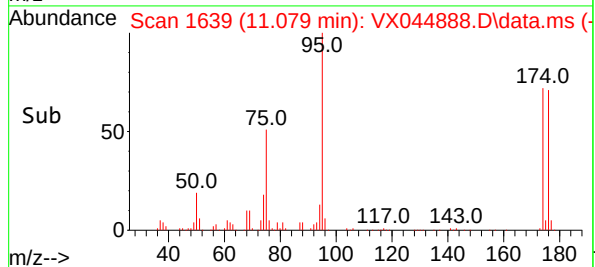
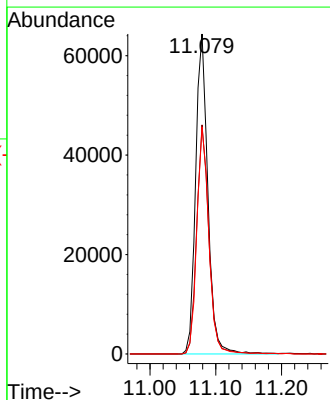
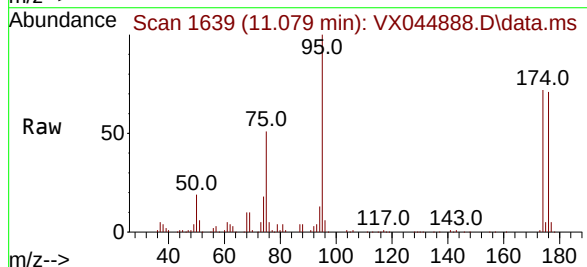
Tgt Ion: 95 Resp: 82802

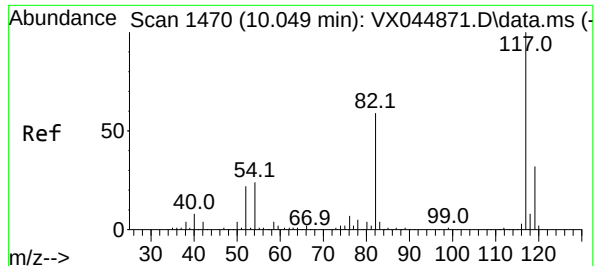
Ion Ratio Lower Upper

95 100

174 71.0 0.0 142.6

176 70.1 0.0 141.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX044888.D

Acq: 10 Feb 2025 18:23

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362

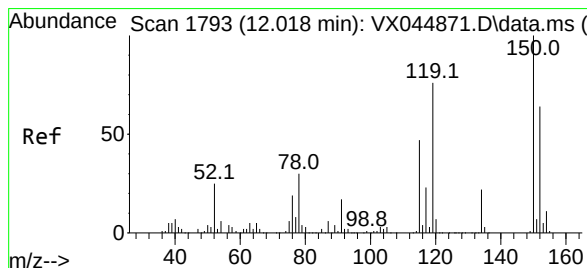
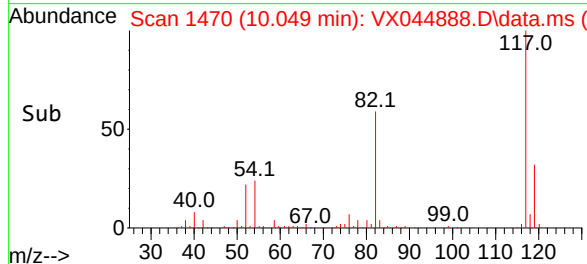
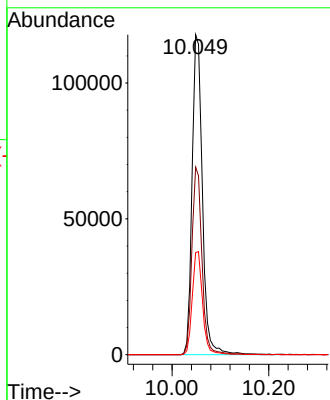
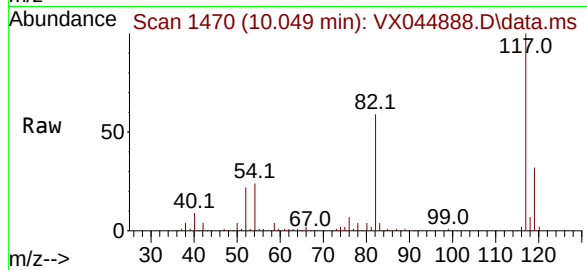
Tgt Ion:117 Resp: 173877

Ion Ratio Lower Upper

117 100

82 58.6 47.5 71.3

119 31.9 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX044888.D

Acq: 10 Feb 2025 18:23

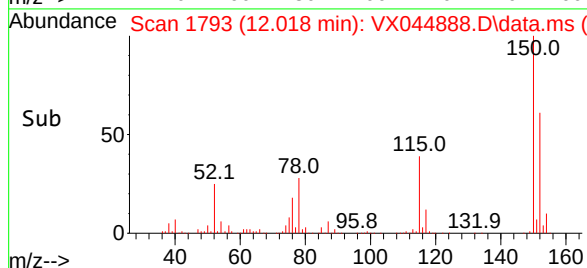
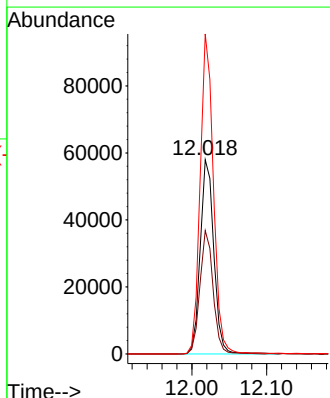
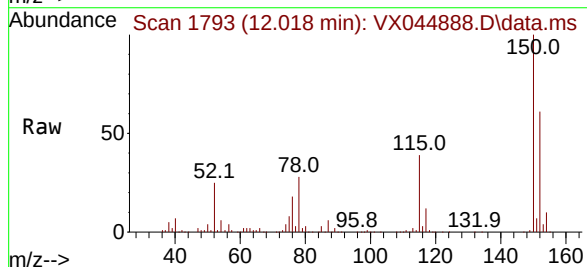
Tgt Ion:152 Resp: 73228

Ion Ratio Lower Upper

152 100

115 61.9 43.4 130.1

150 160.3 0.0 350.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044888.D
 Acq On : 10 Feb 2025 18:23
 Operator : JC/MD
 Sample : Q1250-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-192-GW-360-362

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M

Title : SW846 8260

Signal : TIC: VX044888.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.587	69	82	83	rBV5	5626	14267	2.26%	0.416%
2	1.617	83	87	96	rVB6	6245	15218	2.41%	0.444%
3	5.379	693	704	721	rBV2	68850	206605	32.76%	6.022%
4	5.543	721	731	746	rBV	97761	283494	44.96%	8.263%
5	5.952	788	798	816	rBV	79606	212126	33.64%	6.183%
6	6.757	920	930	949	rBV	180017	444762	70.53%	12.963%
7	8.646	1233	1240	1259	rBV	397548	630594	100.00%	18.379%
8	9.524	1379	1384	1394	rBV	28999	50182	7.96%	1.463%
9	10.049	1465	1470	1486	rBV	376314	546782	86.71%	15.937%
10	10.860	1599	1603	1612	rBV2	6112	9114	1.45%	0.266%
11	11.079	1634	1639	1652	rBV	304608	390590	61.94%	11.384%
12	11.932	1774	1779	1788	rBV	17625	27742	4.40%	0.809%
13	12.018	1788	1793	1807	rVV	380045	466237	73.94%	13.589%
14	12.853	1925	1930	1943	rBV	99179	133255	21.13%	3.884%

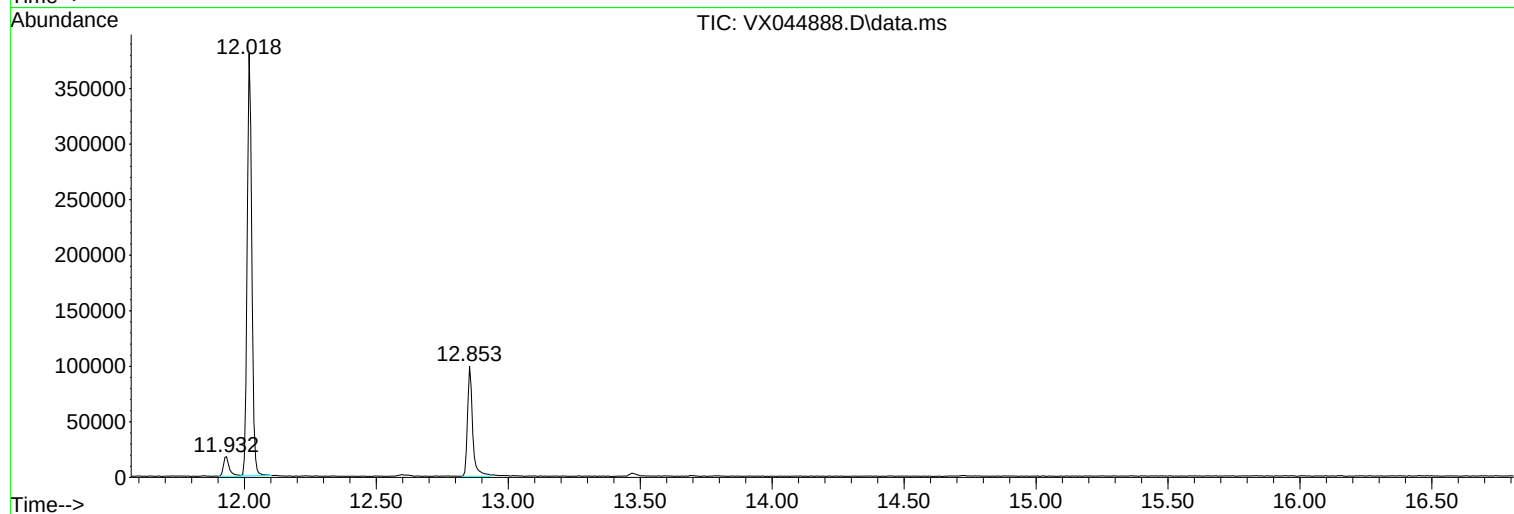
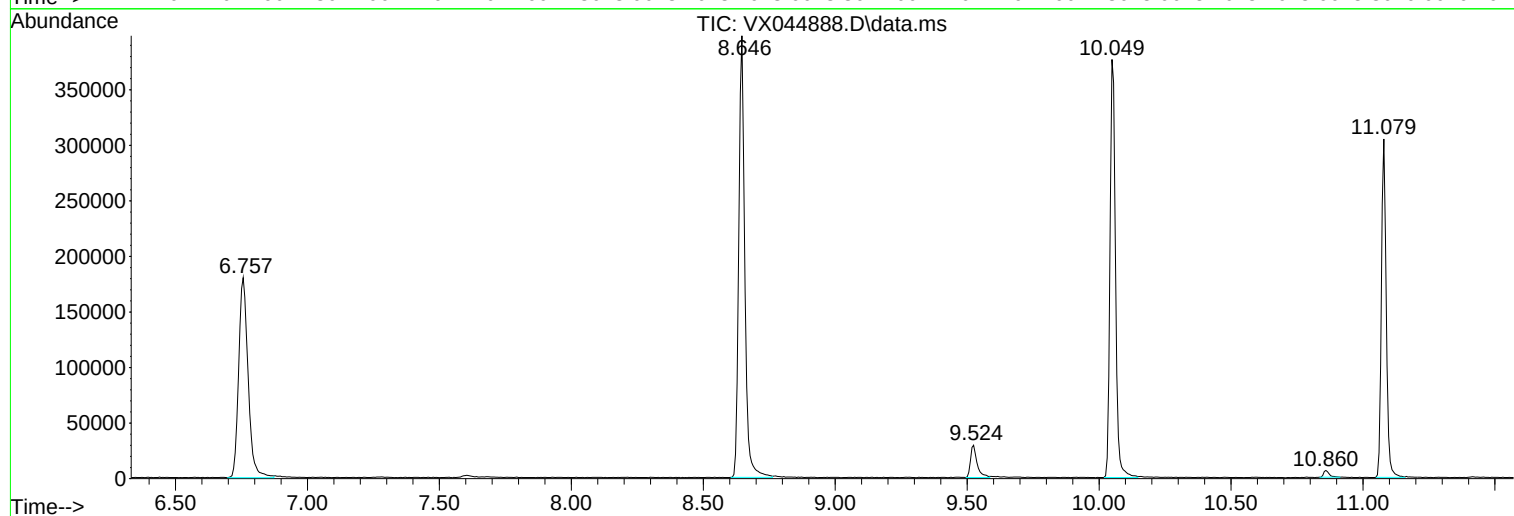
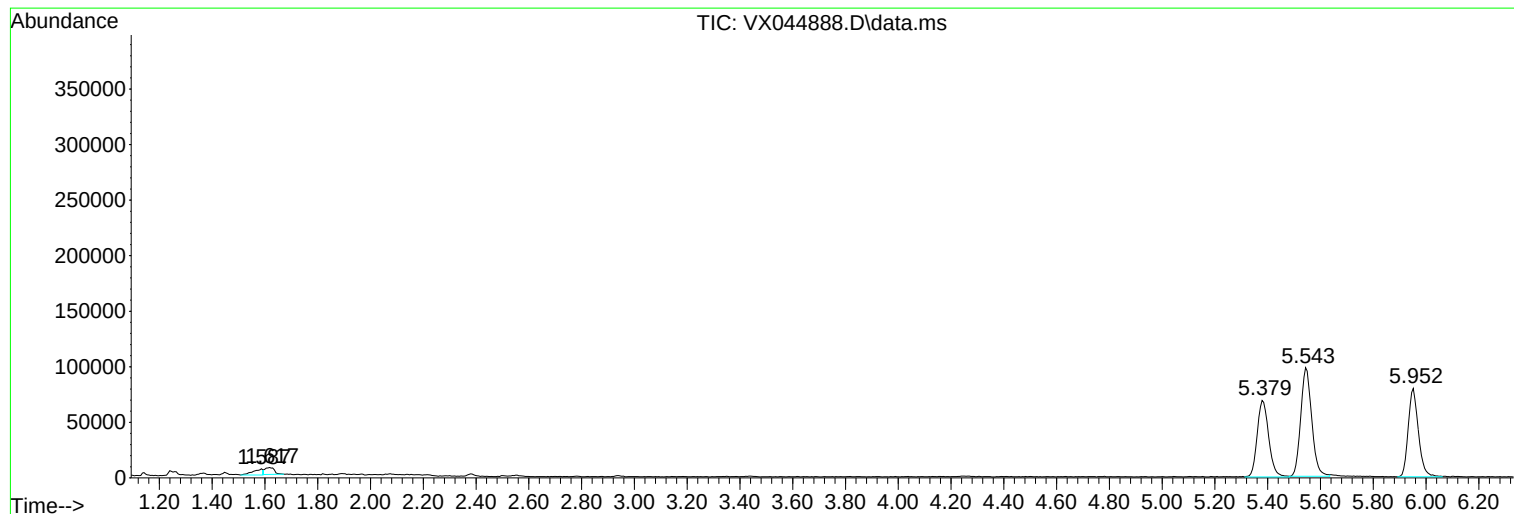
Sum of corrected areas: 3430968

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044888.D
Acq On : 10 Feb 2025 18:23
Operator : JC/MD
Sample : Q1250-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044888.D
Acq On : 10 Feb 2025 18:23
Operator : JC/MD
Sample : Q1250-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044888.D
Acq On : 10 Feb 2025 18:23
Operator : JC/MD
Sample : Q1250-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	01/28/25	
Project:	CTO WE13			Date Received:	01/30/25	
Client Sample ID:	BP-VPB-192-GW-380-382			SDG No.:	Q1250	
Lab Sample ID:	Q1250-10			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044885.D	1		02/10/25 17:14	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	7.50		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.86	J	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/28/25
Project:	CTO WE13	Date Received:	01/30/25
Client Sample ID:	BP-VPB-192-GW-380-382	SDG No.:	Q1250
Lab Sample ID:	Q1250-10	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044885.D	1		02/10/25 17:14	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.8		81 - 118		108%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.9		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.9		85 - 114		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	98000	5.544				
540-36-3	1,4-Difluorobenzene	197000	6.757				
3114-55-4	Chlorobenzene-d5	182000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	77300	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/28/25	
Project:	CTO WE13		Date Received:	01/30/25	
Client Sample ID:	BP-VPB-192-GW-380-382		SDG No.:	Q1250	
Lab Sample ID:	Q1250-10		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044885.D	1		02/10/25 17:14	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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\VX021025\
 Data File : VX044885.D
 Acq On : 10 Feb 2025 17:14
 Operator : JC/MD
 Sample : Q1250-10
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-192-GW-380-382

Quant Time: Feb 11 06:08:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration

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

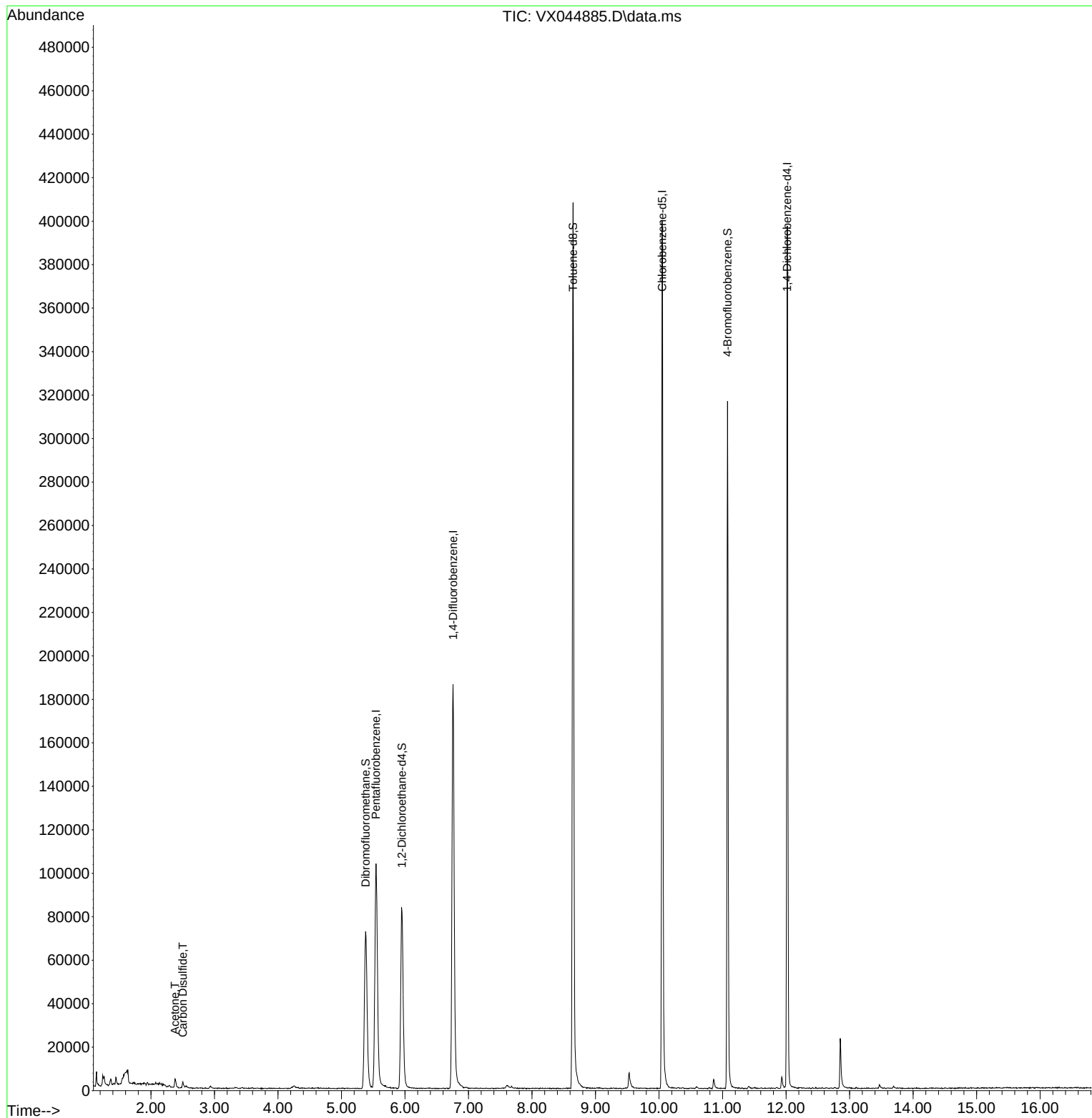
Internal Standards						
1) Pentafluorobenzene	5.544	168	98000	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	197272	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	182089	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	77317	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	77166	53.791	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 107.580%	
35) Dibromofluoromethane	5.379	113	65422	51.007	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.020%	
50) Toluene-d8	8.647	98	246658	50.857	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.720%	
62) 4-Bromofluorobenzene	11.079	95	84932	51.945	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 103.880%	
Target Compounds						Qvalue
16) Acetone	2.380	43	4331	7.510	ug/l	98
17) Carbon Disulfide	2.501	76	2961	0.855	ug/l	96

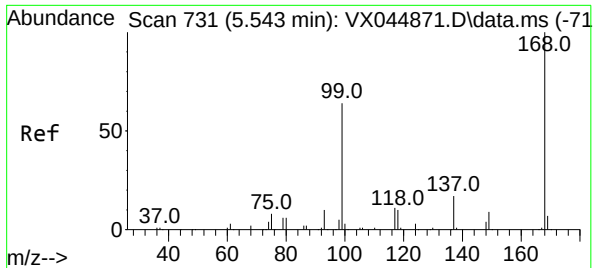
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044885.D
Acq On : 10 Feb 2025 17:14
Operator : JC/MD
Sample : Q1250-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-380-382

Quant Time: Feb 11 06:08:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

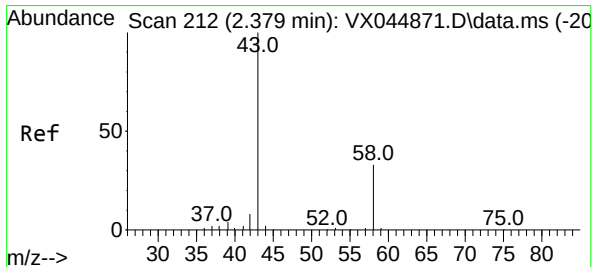
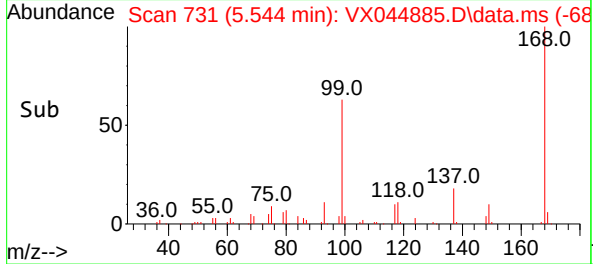
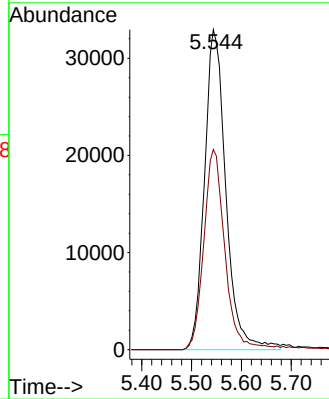
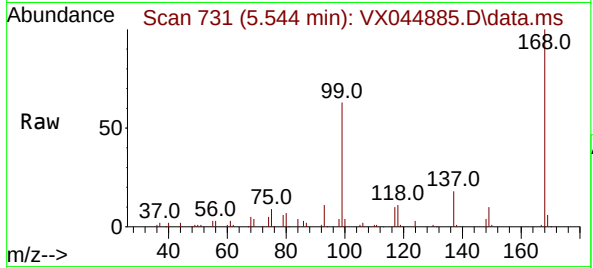




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. 0.001 min
Lab File: VX044885.D
Acq: 10 Feb 2025 17:14

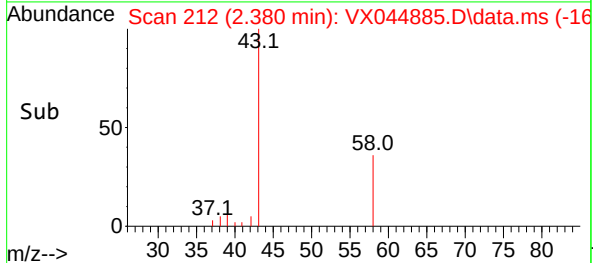
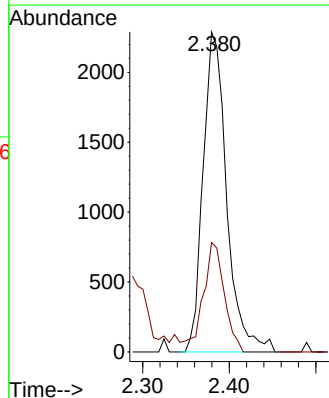
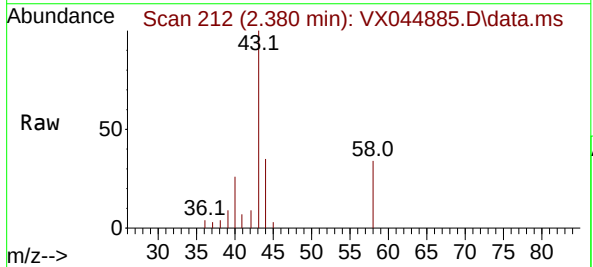
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-380-382

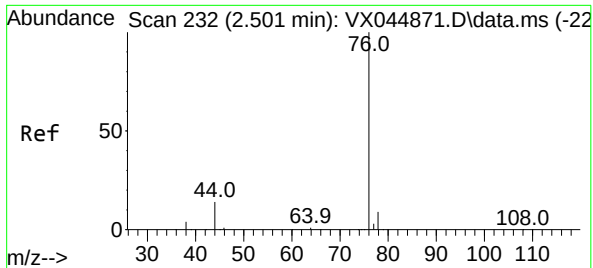
Tgt Ion:168 Resp: 98000
Ion Ratio Lower Upper
168 100
99 62.5 51.2 76.8



#16
Acetone
Concen: 7.510 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044885.D
Acq: 10 Feb 2025 17:14

Tgt Ion: 43 Resp: 4331
Ion Ratio Lower Upper
43 100
58 34.3 26.5 39.7

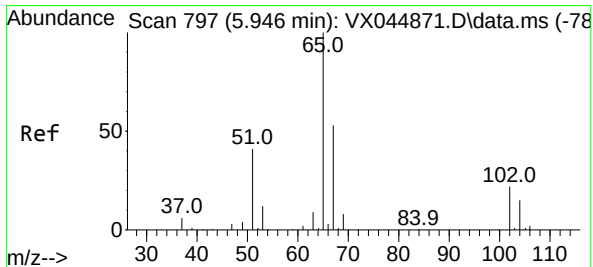
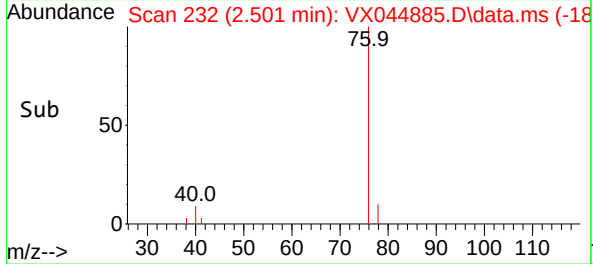
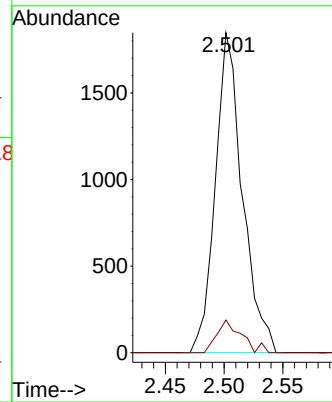
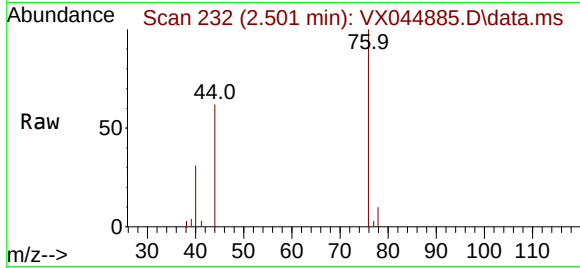




#17
Carbon Disulfide
Concen: 0.855 ug/l
RT: 2.501 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX044885.D
Acq: 10 Feb 2025 17:14

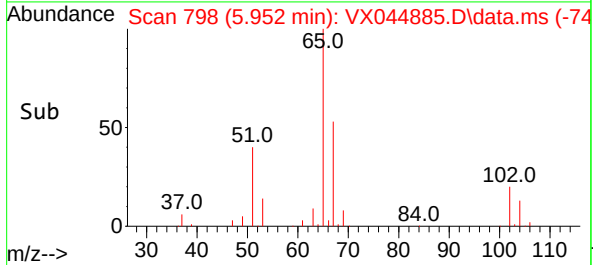
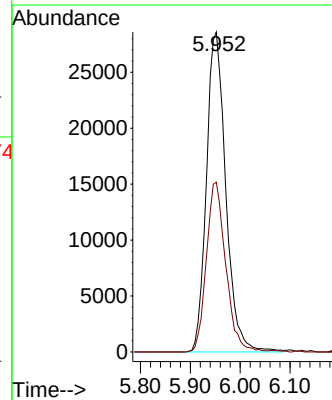
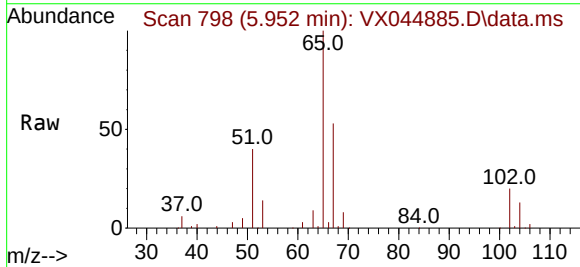
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-380-382

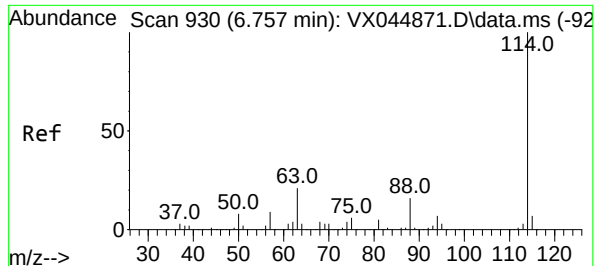
Tgt Ion: 76 Resp: 2961
Ion Ratio Lower Upper
76 100
78 10.2 7.0 10.4



#33
1,2-Dichloroethane-d4
Concen: 53.791 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.006 min
Lab File: VX044885.D
Acq: 10 Feb 2025 17:14

Tgt Ion: 65 Resp: 77166
Ion Ratio Lower Upper
65 100
67 53.0 0.0 108.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX044885.D

Acq: 10 Feb 2025 17:14

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-380-382

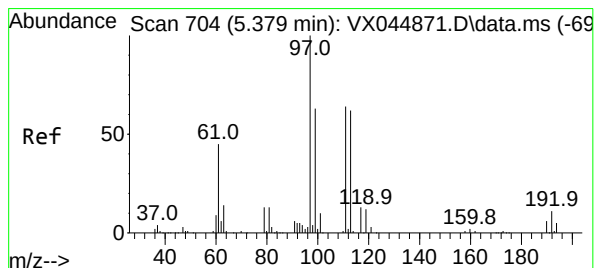
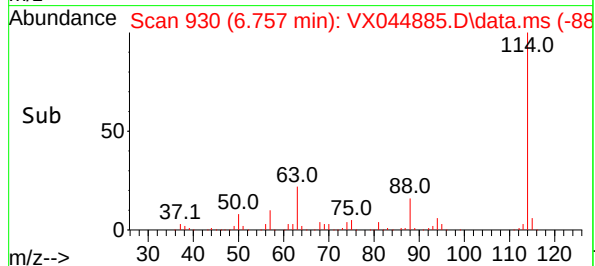
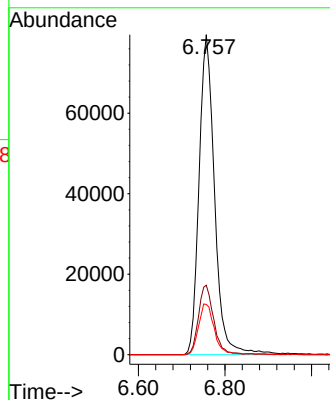
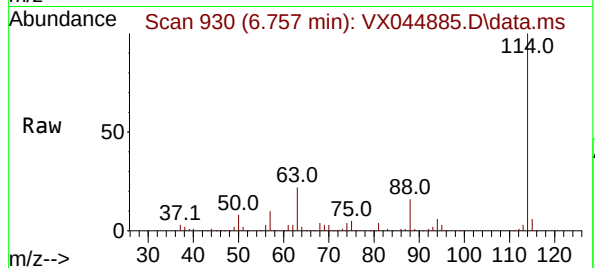
Tgt Ion:114 Resp: 197272

Ion Ratio Lower Upper

114 100

63 21.7 0.0 42.4

88 15.7 0.0 31.4



#35

Dibromofluoromethane

Concen: 51.007 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044885.D

Acq: 10 Feb 2025 17:14

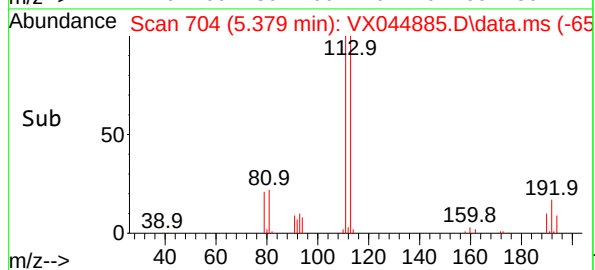
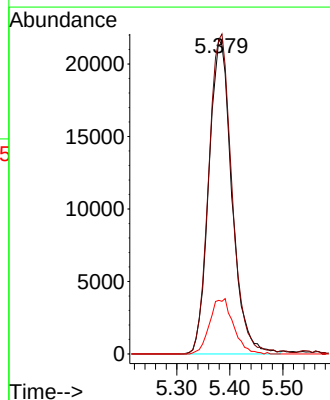
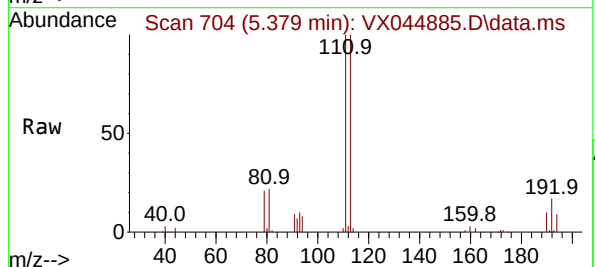
Tgt Ion:113 Resp: 65422

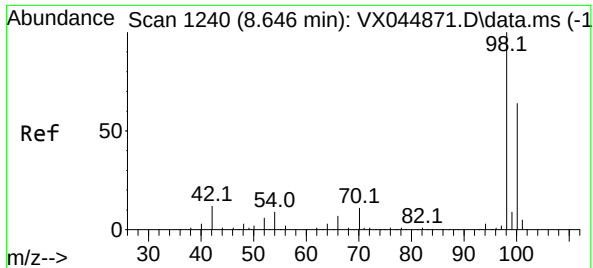
Ion Ratio Lower Upper

113 100

111 102.7 83.5 125.3

192 18.1 14.4 21.6

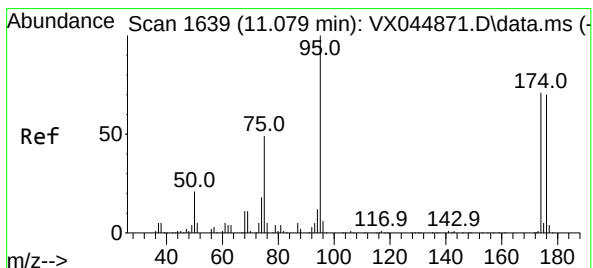
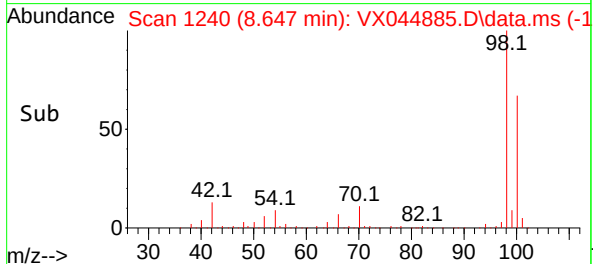
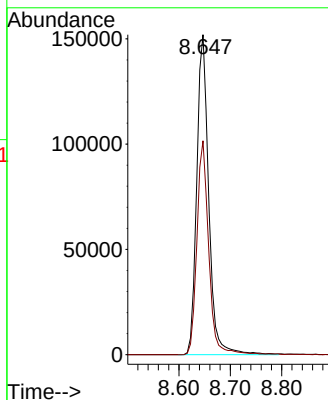
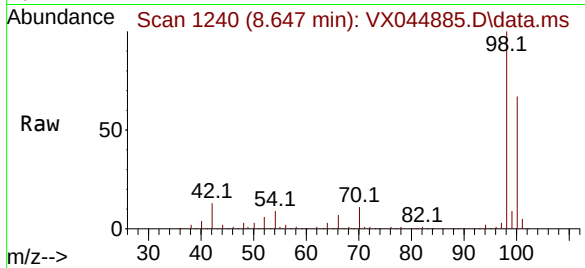




#50
Toluene-d8
Concen: 50.857 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044885.D
Acq: 10 Feb 2025 17:14

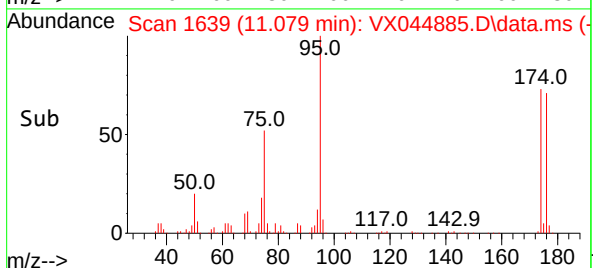
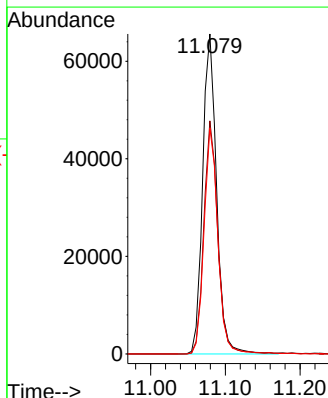
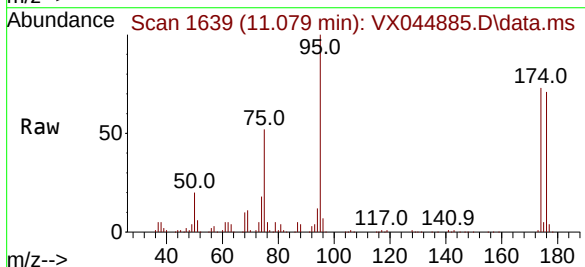
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-380-382

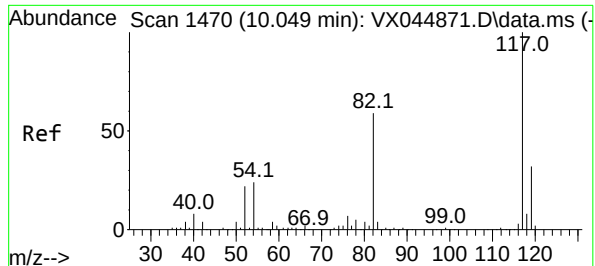
Tgt Ion: 98 Resp: 246658
Ion Ratio Lower Upper
98 100
100 66.0 52.7 79.1



#62
4-Bromofluorobenzene
Concen: 51.945 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044885.D
Acq: 10 Feb 2025 17:14

Tgt Ion: 95 Resp: 84932
Ion Ratio Lower Upper
95 100
174 73.3 0.0 142.6
176 70.4 0.0 141.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX044885.D

Acq: 10 Feb 2025 17:14

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-380-382

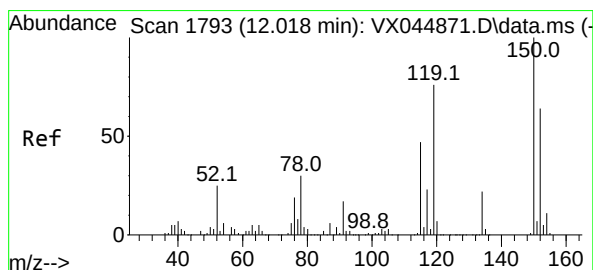
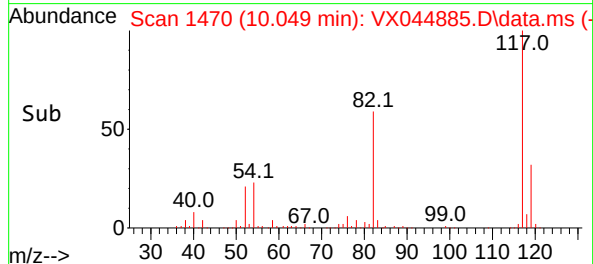
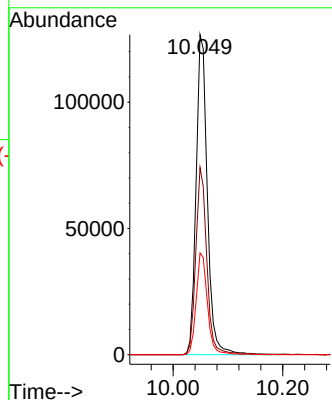
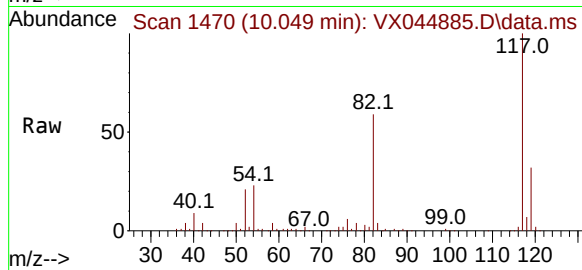
Tgt Ion:117 Resp: 182089

Ion Ratio Lower Upper

117 100

82 58.5 47.5 71.3

119 31.8 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX044885.D

Acq: 10 Feb 2025 17:14

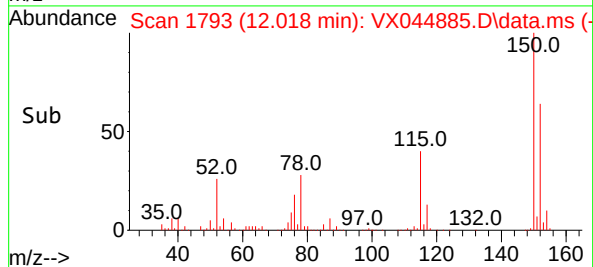
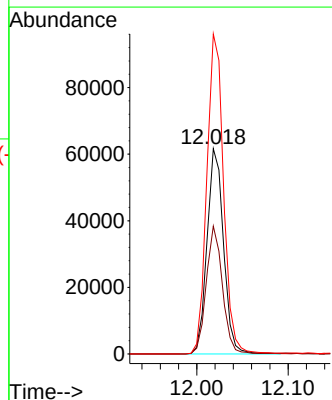
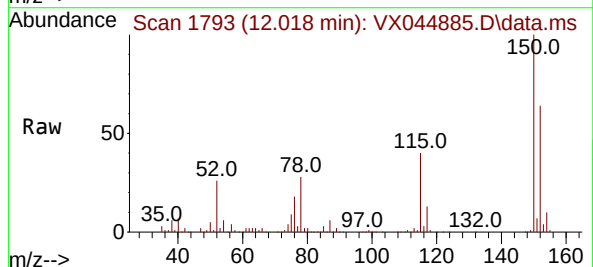
Tgt Ion:152 Resp: 77317

Ion Ratio Lower Upper

152 100

115 61.0 43.4 130.1

150 157.5 0.0 350.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044885.D
 Acq On : 10 Feb 2025 17:14
 Operator : JC/MD
 Sample : Q1250-10
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-192-GW-380-382

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M

Title : SW846 8260

Signal : TIC: VX044885.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.379	694	704	718	rBV3	72308	215613	32.50%	6.351%
2	5.544	722	731	751	rBV	102889	296031	44.63%	8.719%
3	5.946	787	797	812	rBV2	83638	225655	34.02%	6.647%
4	6.757	921	930	956	rBV	185625	462369	69.70%	13.619%
5	8.647	1234	1240	1266	rBV	407519	663336	100.00%	19.538%
6	9.531	1377	1385	1394	rBV3	7106	14312	2.16%	0.422%
7	10.049	1465	1470	1482	rBV	399510	569181	85.81%	16.765%
8	10.860	1599	1603	1612	rBV3	4320	7823	1.18%	0.230%
9	11.079	1633	1639	1650	rBV	316321	407854	61.49%	12.013%
10	11.933	1773	1779	1785	rBV3	5282	8493	1.28%	0.250%
11	12.018	1788	1793	1805	rVV	396320	489077	73.73%	14.406%
12	12.853	1925	1930	1942	rBV	23090	35311	5.32%	1.040%

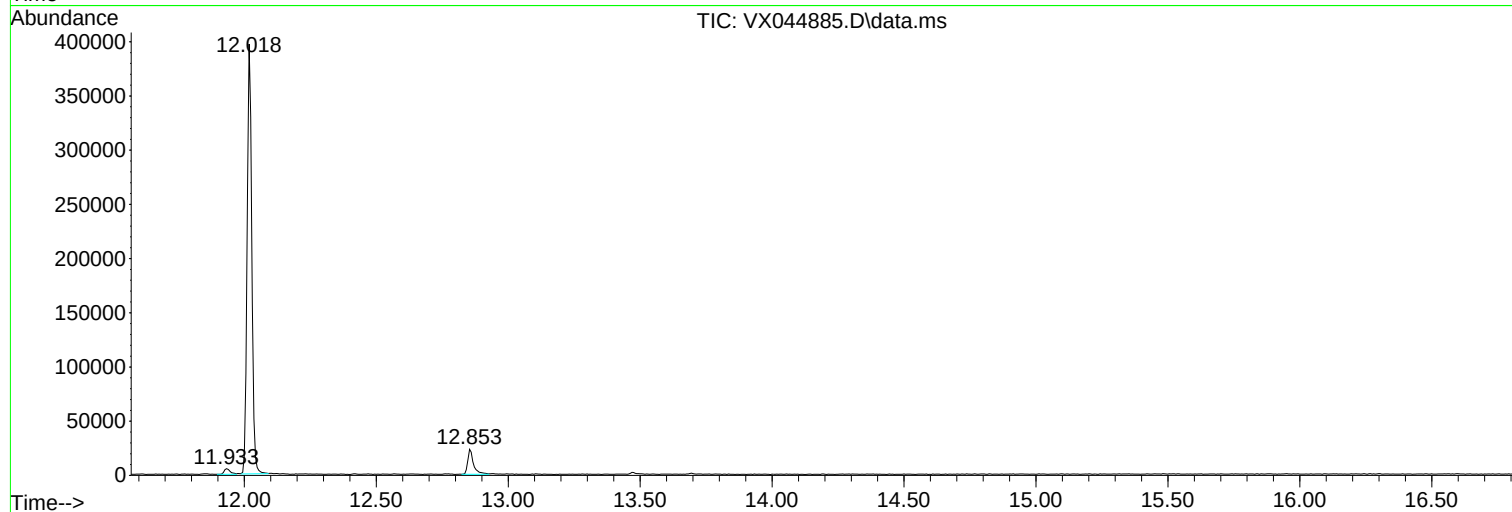
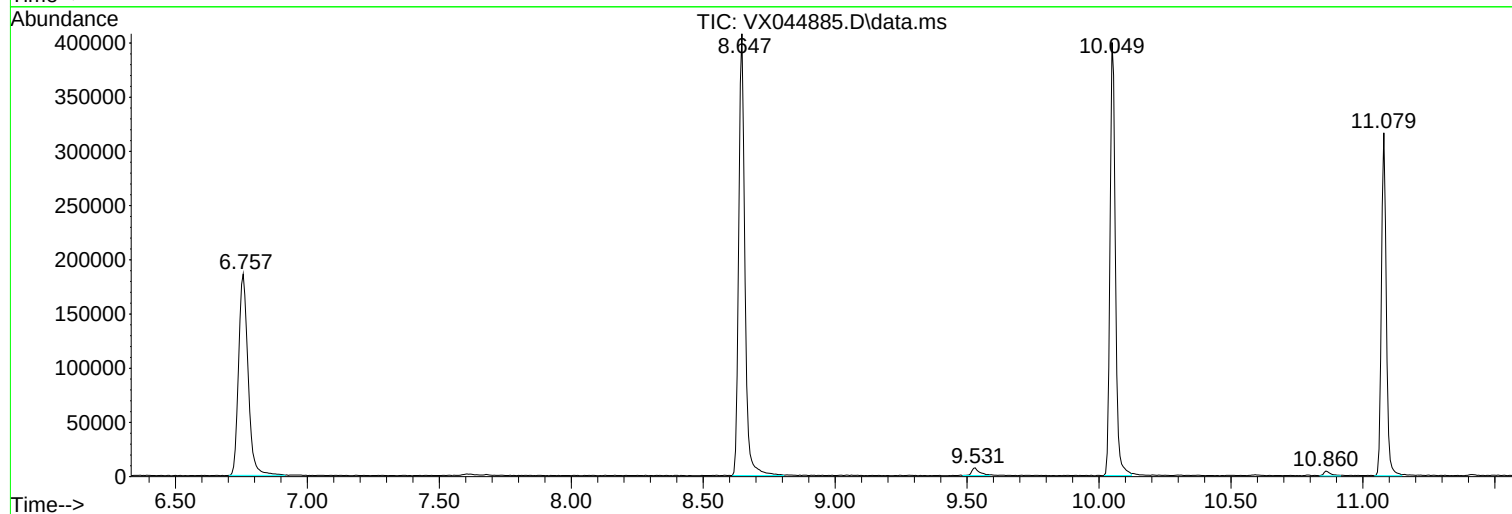
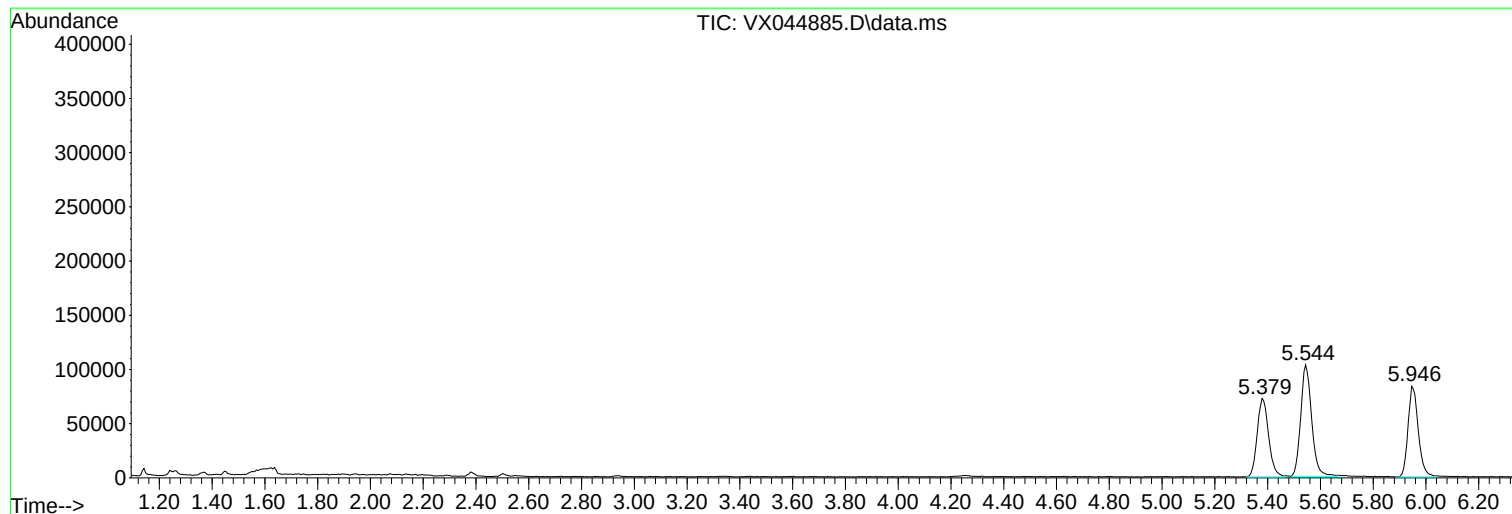
Sum of corrected areas: 3395055

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044885.D
Acq On : 10 Feb 2025 17:14
Operator : JC/MD
Sample : Q1250-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-380-382

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044885.D
Acq On : 10 Feb 2025 17:14
Operator : JC/MD
Sample : Q1250-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-380-382

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044885.D
Acq On : 10 Feb 2025 17:14
Operator : JC/MD
Sample : Q1250-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-380-382

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	01/28/25		
Project:	CTO WE13			Date Received:	01/30/25		
Client Sample ID:	BP-VPB-192-GW-400-402			SDG No.:	Q1250		
Lab Sample ID:	Q1250-11			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044886.D	1		02/10/25 17:37	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	12.8		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.34	J	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/28/25
Project:	CTO WE13	Date Received:	01/30/25
Client Sample ID:	BP-VPB-192-GW-400-402	SDG No.:	Q1250
Lab Sample ID:	Q1250-11	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044886.D	1		02/10/25 17:37	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.8		81 - 118		108%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		80 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	51.0		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.5		85 - 114		107%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	94400	5.549				
540-36-3	1,4-Difluorobenzene	192000	6.756				
3114-55-4	Chlorobenzene-d5	179000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	76700	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/28/25	
Project:	CTO WE13		Date Received:	01/30/25	
Client Sample ID:	BP-VPB-192-GW-400-402		SDG No.:	Q1250	
Lab Sample ID:	Q1250-11		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044886.D	1		02/10/25 17:37	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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\VX021025\
 Data File : VX044886.D
 Acq On : 10 Feb 2025 17:37
 Operator : JC/MD
 Sample : Q1250-11
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-192-GW-400-402

Quant Time: Feb 11 06:08:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration

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

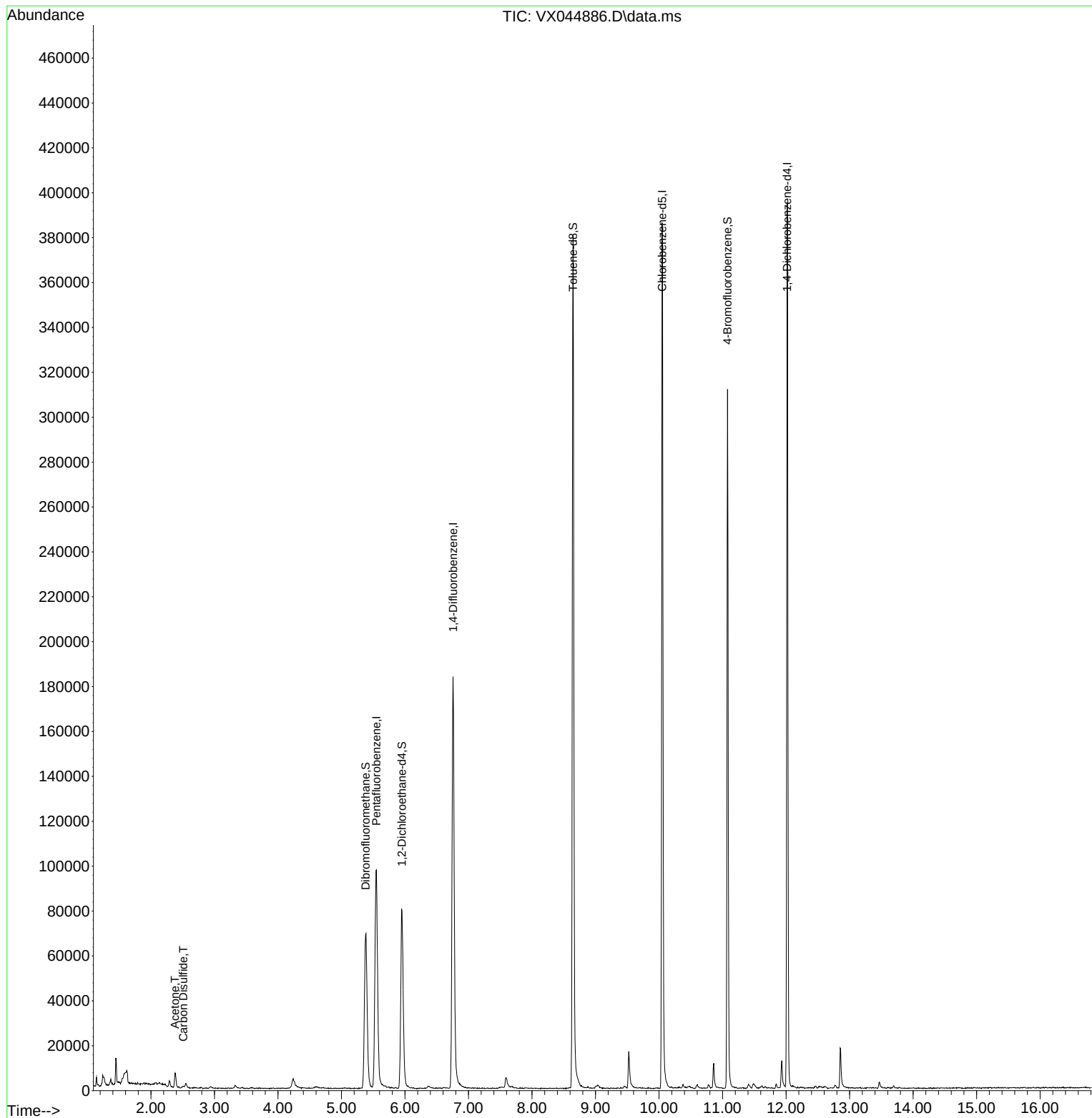
Internal Standards						
1) Pentafluorobenzene	5.549	168	94362	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.756	114	191816	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	178953	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	76716	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	74380	53.848	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 107.700%	
35) Dibromofluoromethane	5.379	113	63934	51.265	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.540%	
50) Toluene-d8	8.646	98	240408	50.978	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.960%	
62) 4-Bromofluorobenzene	11.079	95	85054	53.499	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 107.000%	
Target Compounds						Qvalue
16) Acetone	2.379	43	7097	12.781	ug/l	96
17) Carbon Disulfide	2.507	76	1145	0.343	ug/l #	76

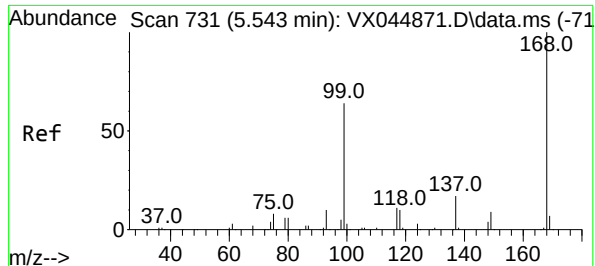
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044886.D
Acq On : 10 Feb 2025 17:37
Operator : JC/MD
Sample : Q1250-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-400-402

Quant Time: Feb 11 06:08:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.549 min Scan# 71

Delta R.T. 0.006 min

Lab File: VX044886.D

Acq: 10 Feb 2025 17:37

Instrument :

MSVOA_X

ClientSampleId :

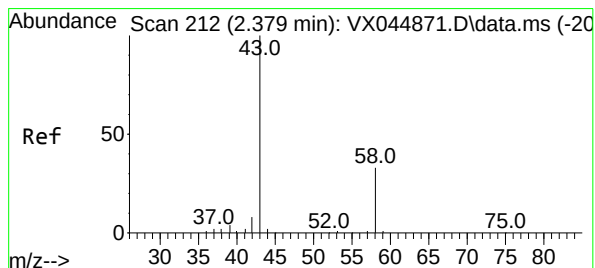
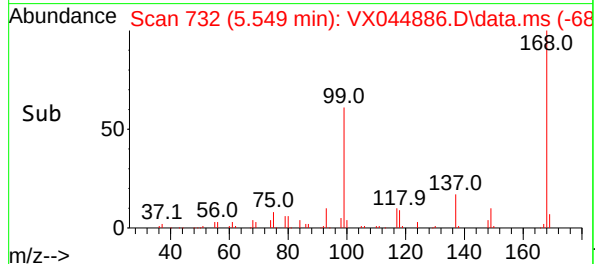
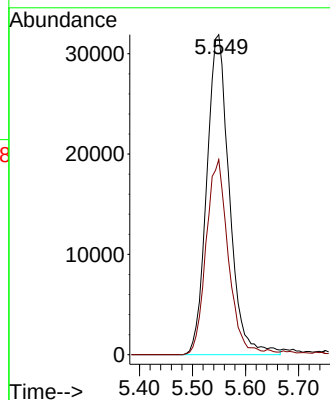
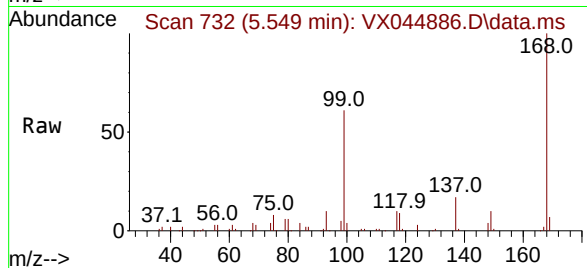
BP-VPB-192-GW-400-402

Tgt Ion:168 Resp: 94362

Ion Ratio Lower Upper

168 100

99 61.0 51.2 76.8



#16

Acetone

Concen: 12.781 ug/l

RT: 2.379 min Scan# 212

Delta R.T. -0.000 min

Lab File: VX044886.D

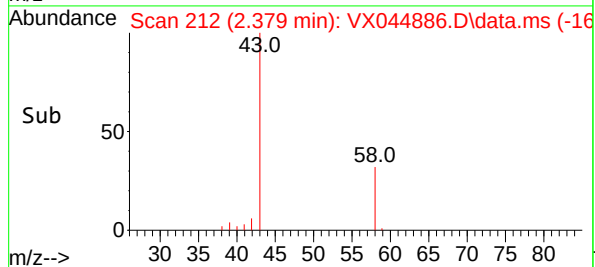
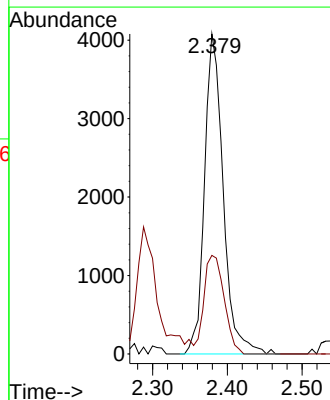
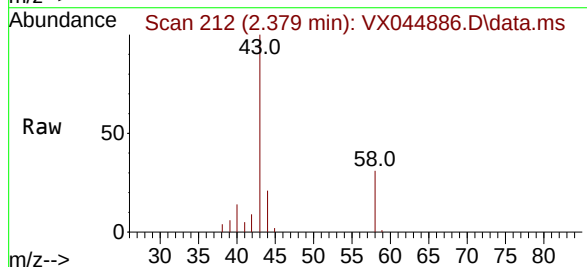
Acq: 10 Feb 2025 17:37

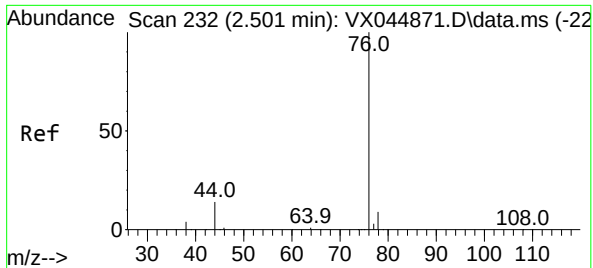
Tgt Ion: 43 Resp: 7097

Ion Ratio Lower Upper

43 100

58 30.8 26.5 39.7





#17

Carbon Disulfide

Concen: 0.343 ug/l

RT: 2.507 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX044886.D

Acq: 10 Feb 2025 17:37

Instrument :

MSVOA_X

ClientSampleId :

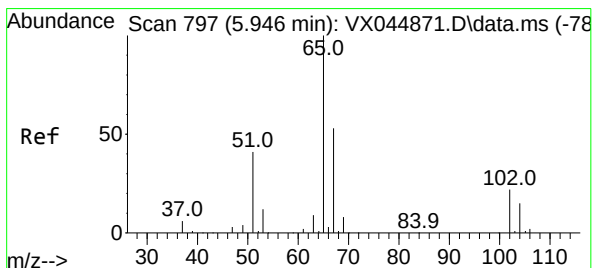
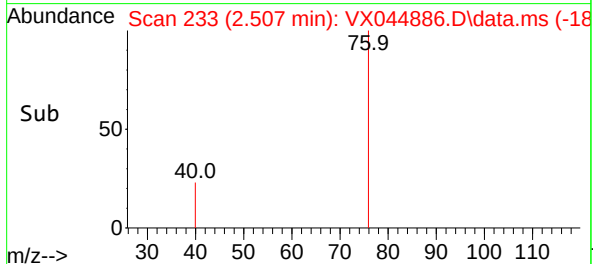
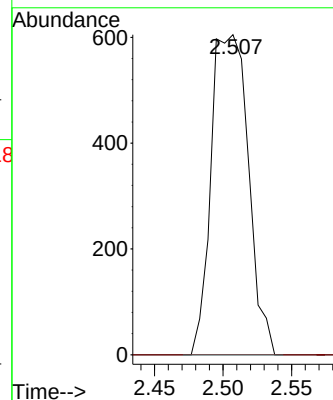
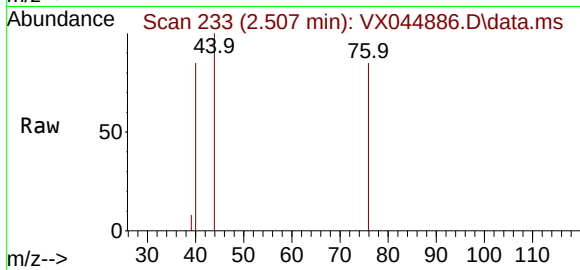
BP-VPB-192-GW-400-402

Tgt Ion: 76 Resp: 1145

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#



#33

1,2-Dichloroethane-d4

Concen: 53.848 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX044886.D

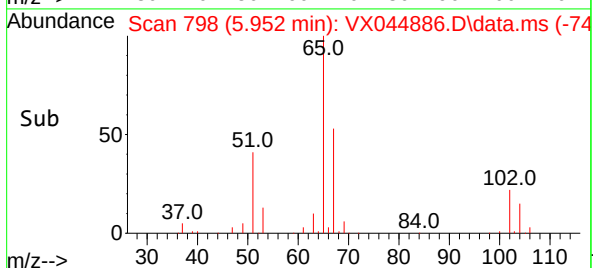
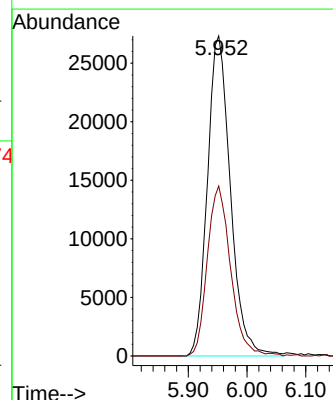
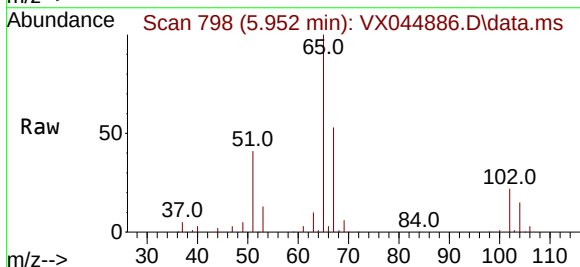
Acq: 10 Feb 2025 17:37

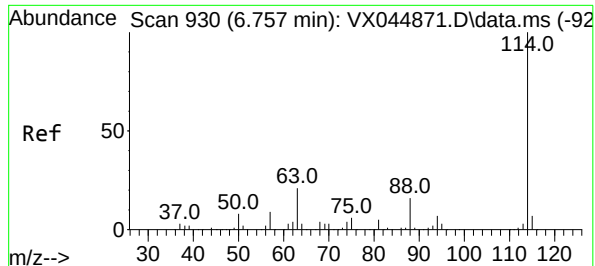
Tgt Ion: 65 Resp: 74380

Ion Ratio Lower Upper

65 100

67 53.6 0.0 108.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.756 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX044886.D

Acq: 10 Feb 2025 17:37

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-400-402

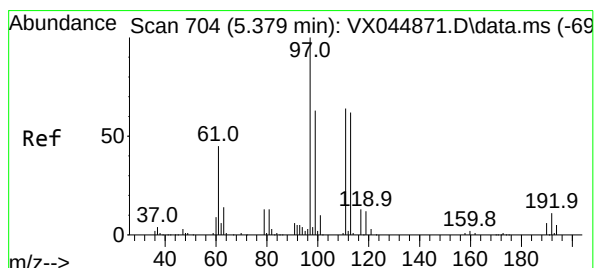
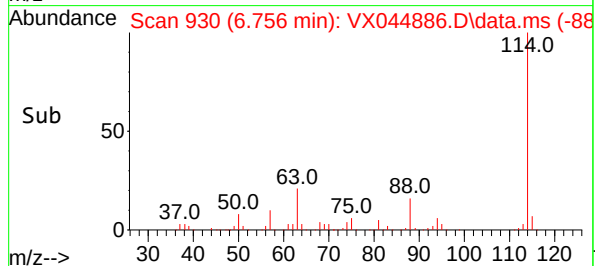
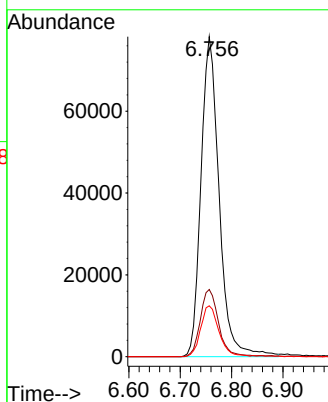
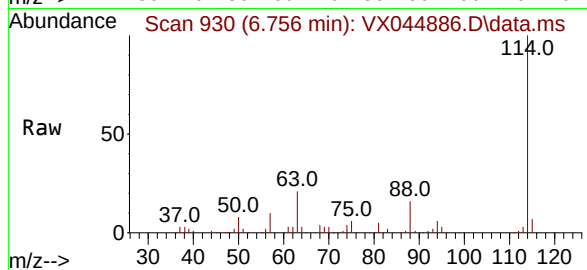
Tgt Ion:114 Resp: 191816

Ion Ratio Lower Upper

114 100

63 21.0 0.0 42.4

88 15.9 0.0 31.4



#35

Dibromofluoromethane

Concen: 51.265 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX044886.D

Acq: 10 Feb 2025 17:37

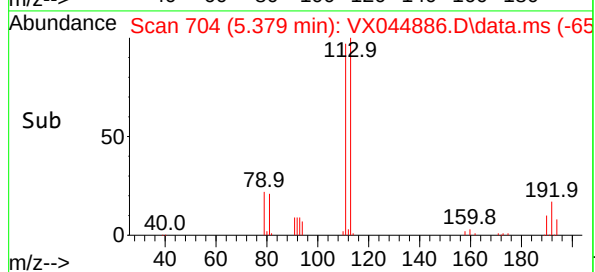
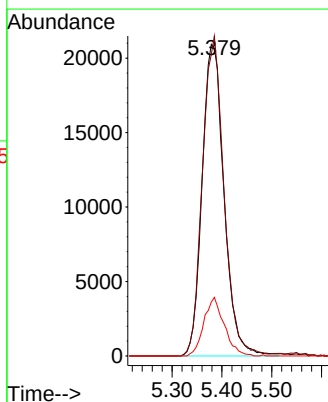
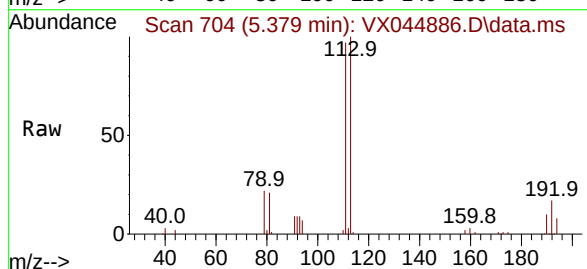
Tgt Ion:113 Resp: 63934

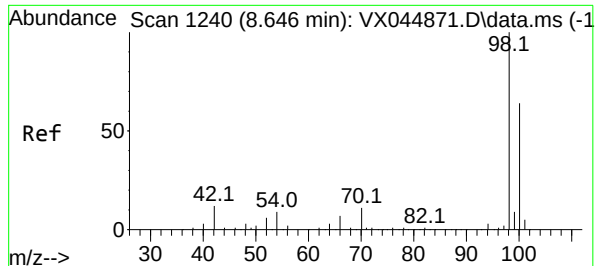
Ion Ratio Lower Upper

113 100

111 100.9 83.5 125.3

192 17.5 14.4 21.6





#50

Toluene-d8

Concen: 50.978 ug/l

RT: 8.646 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX044886.D

Acq: 10 Feb 2025 17:37

Instrument :

MSVOA_X

ClientSampleId :

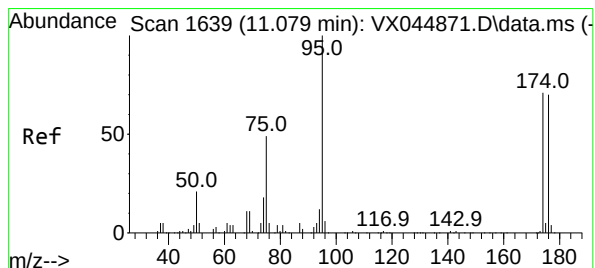
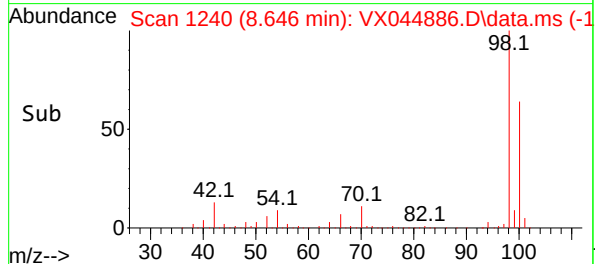
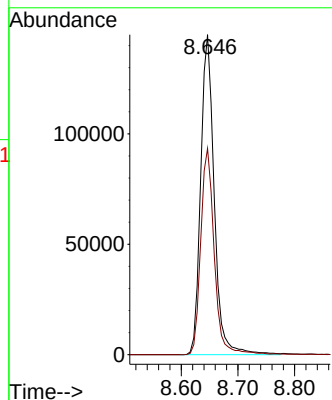
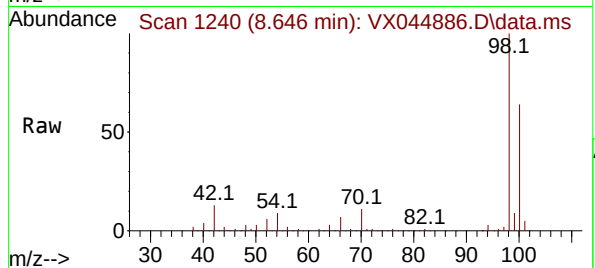
BP-VPB-192-GW-400-402

Tgt Ion: 98 Resp: 240408

Ion Ratio Lower Upper

98 100

100 64.5 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 53.499 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX044886.D

Acq: 10 Feb 2025 17:37

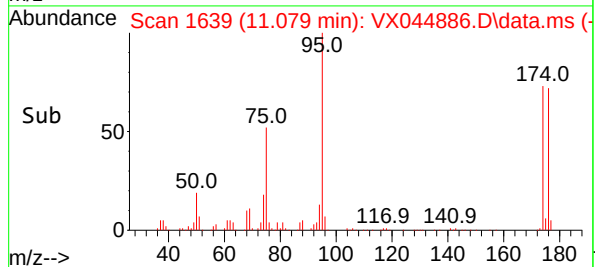
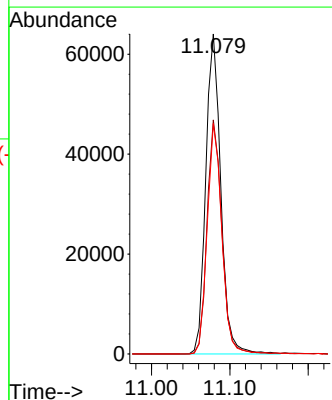
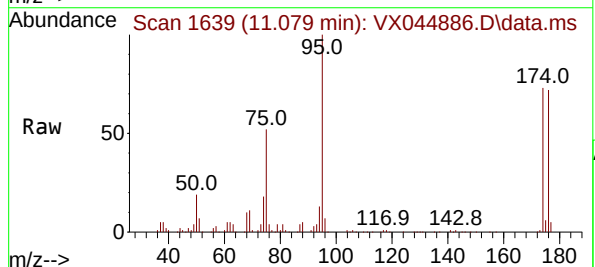
Tgt Ion: 95 Resp: 85054

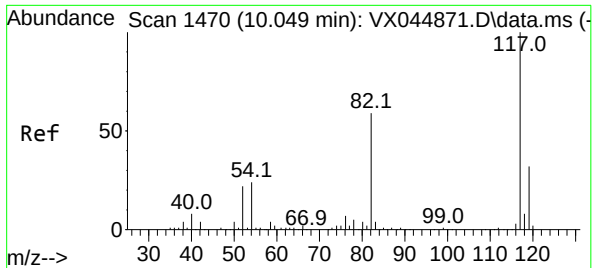
Ion Ratio Lower Upper

95 100

174 72.1 0.0 142.6

176 70.6 0.0 141.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. -0.000 min

Lab File: VX044886.D

Acq: 10 Feb 2025 17:37

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-400-402

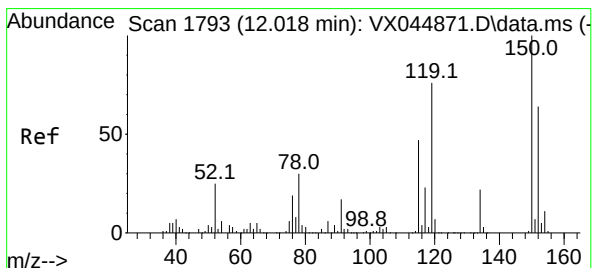
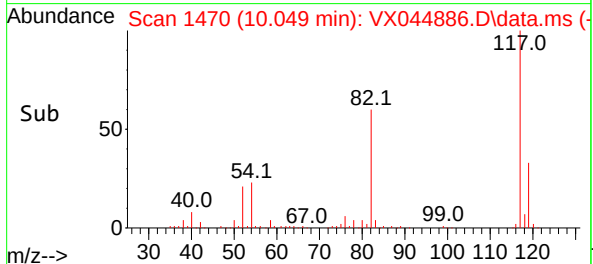
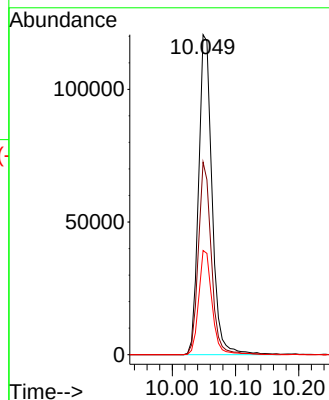
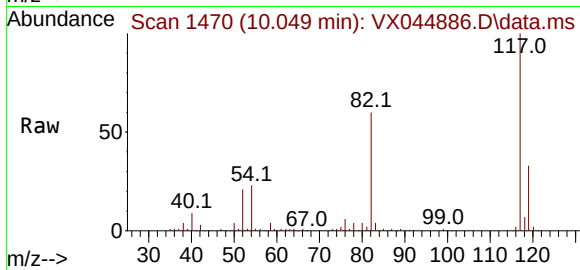
Tgt Ion:117 Resp: 178953

Ion Ratio Lower Upper

117 100

82 60.1 47.5 71.3

119 32.5 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX044886.D

Acq: 10 Feb 2025 17:37

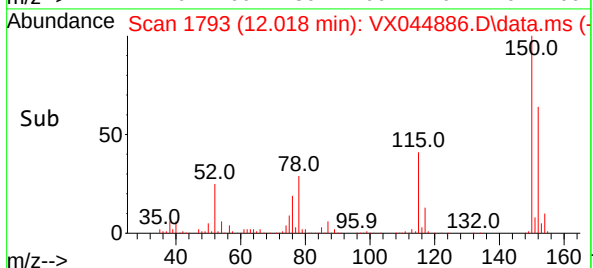
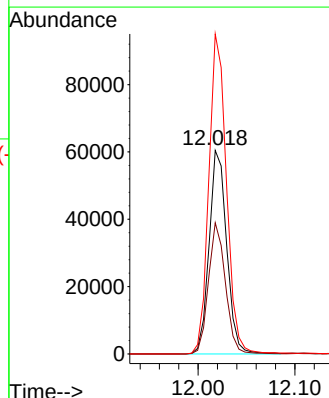
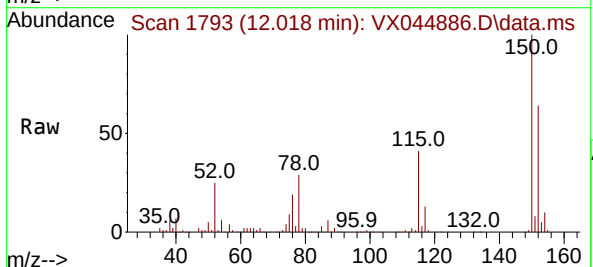
Tgt Ion:152 Resp: 76716

Ion Ratio Lower Upper

152 100

115 62.2 43.4 130.1

150 157.8 0.0 350.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044886.D
 Acq On : 10 Feb 2025 17:37
 Operator : JC/MD
 Sample : Q1250-11
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-192-GW-400-402

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M

Title : SW846 8260

Signal : TIC: VX044886.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.239	20	25	27	rBV2	4852	6652	1.04%	0.196%
2	1.446	56	59	63	rBV	11623	12558	1.97%	0.370%
3	2.379	208	212	220	rVB	6476	10835	1.70%	0.319%
4	4.239	507	517	523	rBV5	4246	11695	1.83%	0.344%
5	5.385	695	705	721	rBV2	68868	207076	32.42%	6.093%
6	5.549	721	732	752	rVV	96805	284707	44.58%	8.378%
7	5.946	788	797	812	rBV	80093	215872	33.80%	6.352%
8	6.756	919	930	948	rBV	183342	450290	70.50%	13.250%
9	7.592	1061	1067	1075	rBV4	4308	10250	1.60%	0.302%
10	8.646	1233	1240	1260	rBV	380197	638697	100.00%	18.795%
11	9.524	1379	1384	1395	rBV2	16353	28549	4.47%	0.840%
12	10.049	1465	1470	1490	rBV	385746	564698	88.41%	16.617%
13	10.859	1598	1603	1611	rBV	10867	15436	2.42%	0.454%
14	11.079	1634	1639	1653	rBV	310969	404981	63.41%	11.917%
15	11.932	1774	1779	1788	rBV2	12066	19113	2.99%	0.562%
16	12.018	1788	1793	1802	rBV	393893	488325	76.46%	14.370%
17	12.853	1926	1930	1940	rBV2	17833	28583	4.48%	0.841%

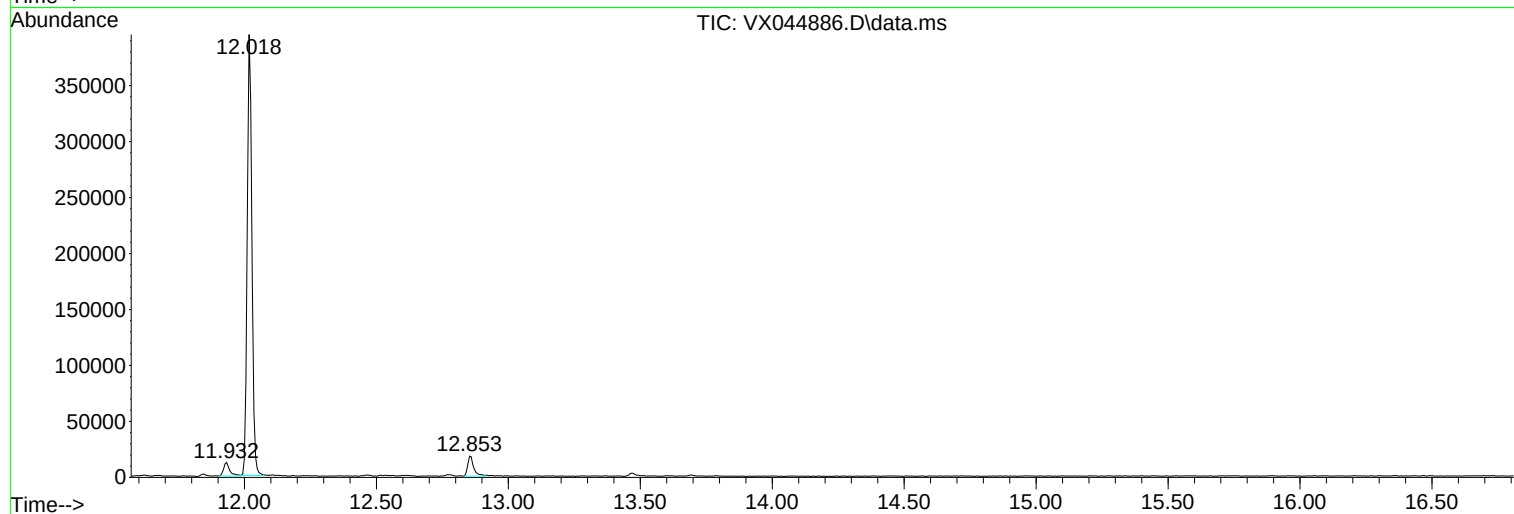
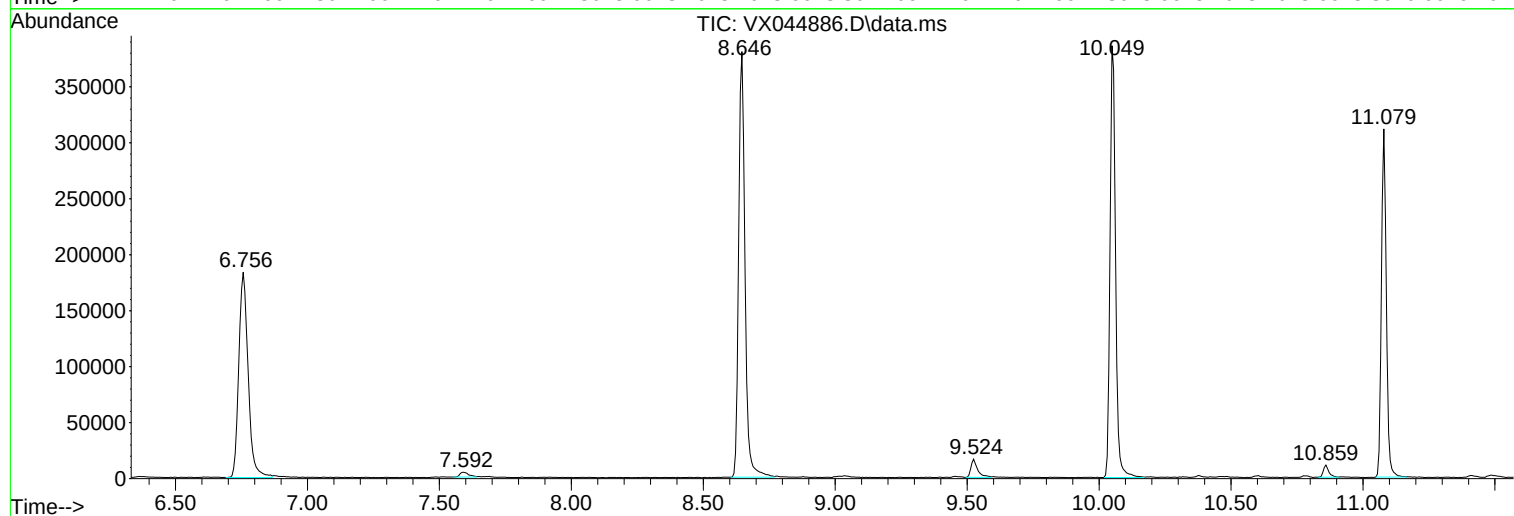
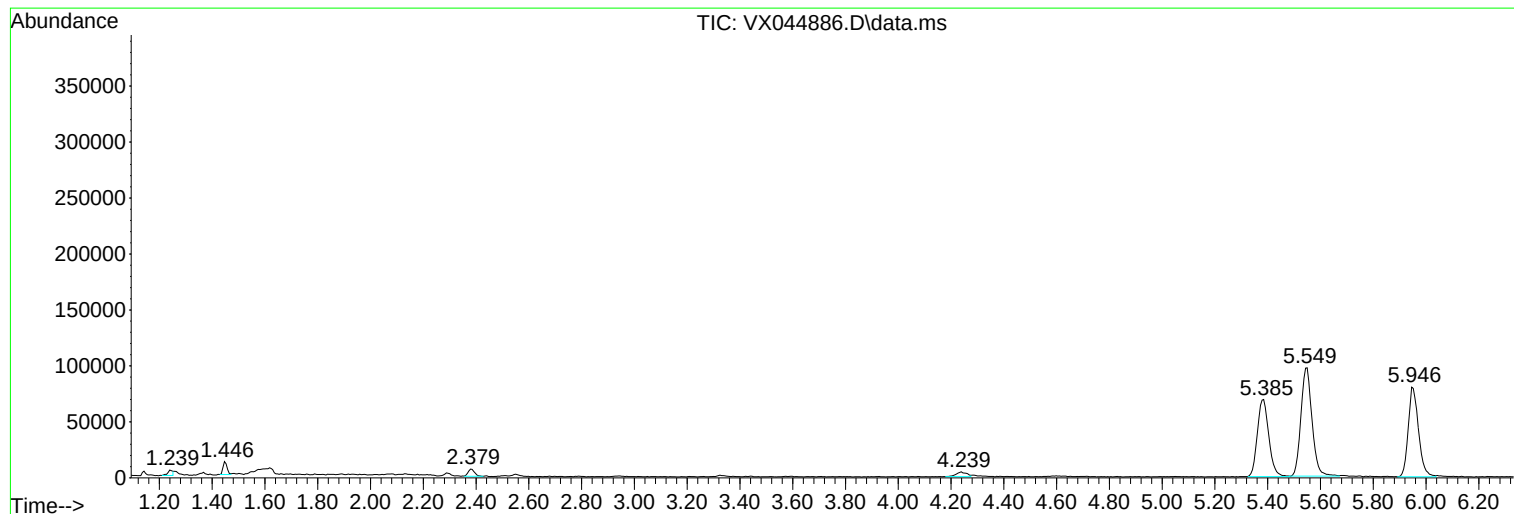
Sum of corrected areas: 3398317

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044886.D
Acq On : 10 Feb 2025 17:37
Operator : JC/MD
Sample : Q1250-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-400-402

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044886.D
Acq On : 10 Feb 2025 17:37
Operator : JC/MD
Sample : Q1250-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-400-402

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044886.D
Acq On : 10 Feb 2025 17:37
Operator : JC/MD
Sample : Q1250-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-400-402

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	01/29/25		
Project:	CTO WE13			Date Received:	01/30/25		
Client Sample ID:	BP-VPB-192-GW-440-442			SDG No.:	Q1250		
Lab Sample ID:	Q1250-12			Matrix:	Water		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044887.D	1		02/10/25 18:00	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	11.0		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.45	J	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/29/25
Project:	CTO WE13	Date Received:	01/30/25
Client Sample ID:	BP-VPB-192-GW-440-442	SDG No.:	Q1250
Lab Sample ID:	Q1250-12	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044887.D	1		02/10/25 18:00	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.9		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.2		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.0		85 - 114		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	91100	5.544				
540-36-3	1,4-Difluorobenzene	183000	6.757				
3114-55-4	Chlorobenzene-d5	167000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	68200	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/29/25	
Project:	CTO WE13		Date Received:	01/30/25	
Client Sample ID:	BP-VPB-192-GW-440-442		SDG No.:	Q1250	
Lab Sample ID:	Q1250-12		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044887.D	1		02/10/25 18:00	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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\VX021025\
 Data File : VX044887.D
 Acq On : 10 Feb 2025 18:00
 Operator : JC/MD
 Sample : Q1250-12
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-192-GW-440-442

Quant Time: Feb 11 06:09:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration

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

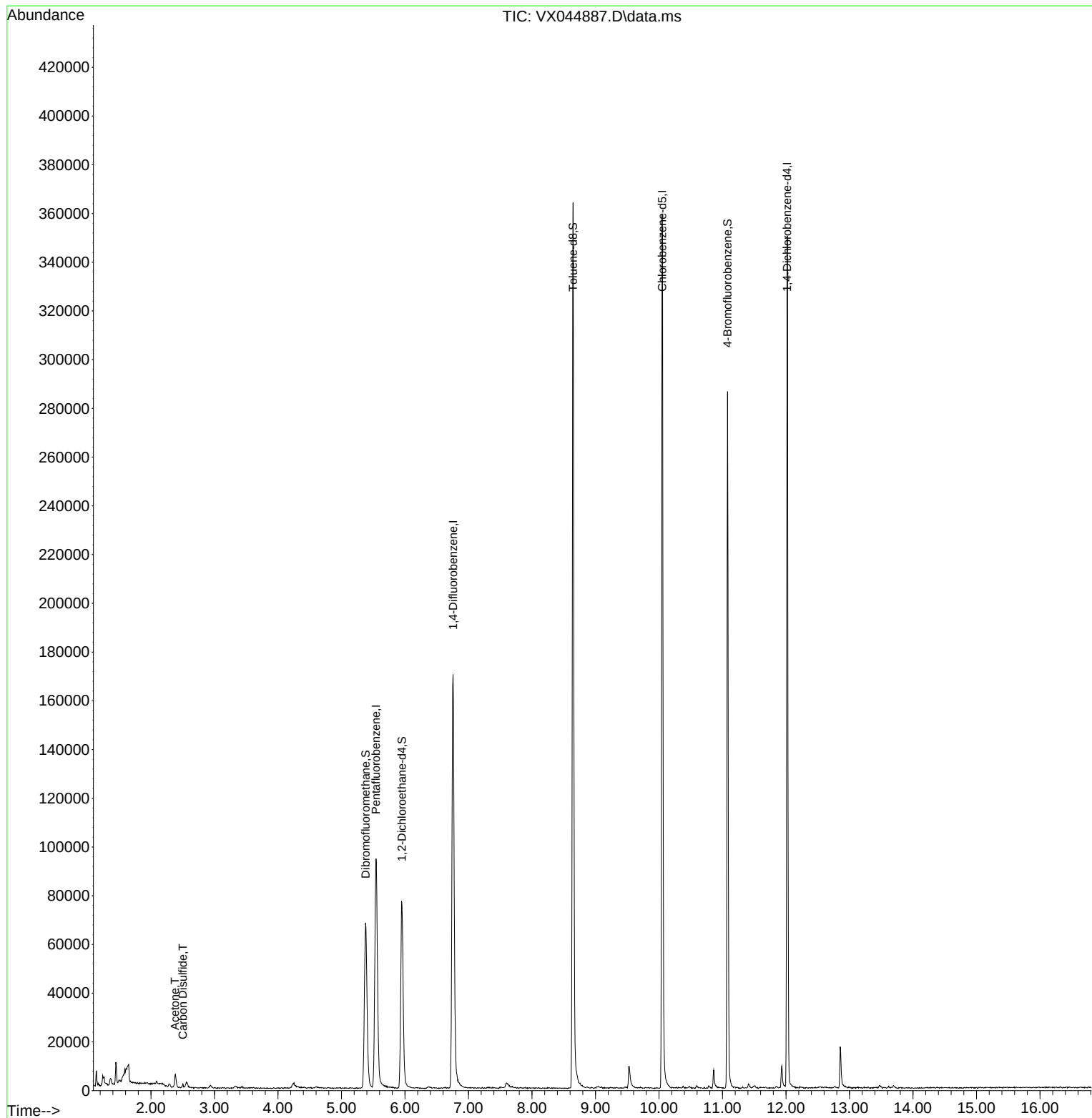
Internal Standards							
1) Pentafluorobenzene		5.544	168	91120	50.000	ug/l	0.00
34) 1,4-Difluorobenzene		6.757	114	183168	50.000	ug/l	0.00
63) Chlorobenzene-d5		10.049	117	166878	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4		12.018	152	68152	50.000	ug/l	0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4		5.952	65	70603	52.932	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	105.860%	
35) Dibromofluoromethane		5.379	113	60790	51.046	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.100%	
50) Toluene-d8		8.647	98	226081	50.204	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.400%	
62) 4-Bromofluorobenzene		11.079	95	77471	51.030	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	102.060%	
Target Compounds							Qvalue
16) Acetone		2.380	43	5880	10.966	ug/l	99
17) Carbon Disulfide		2.502	76	1460	0.453	ug/l #	94

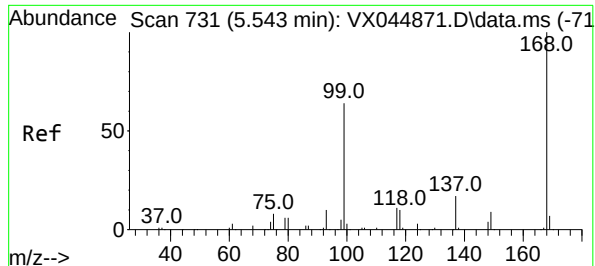
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044887.D
Acq On : 10 Feb 2025 18:00
Operator : JC/MD
Sample : Q1250-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-440-442

Quant Time: Feb 11 06:09:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.544 min Scan# 71

Delta R.T. 0.001 min

Lab File: VX044887.D

Acq: 10 Feb 2025 18:00

Instrument :

MSVOA_X

ClientSampleId :

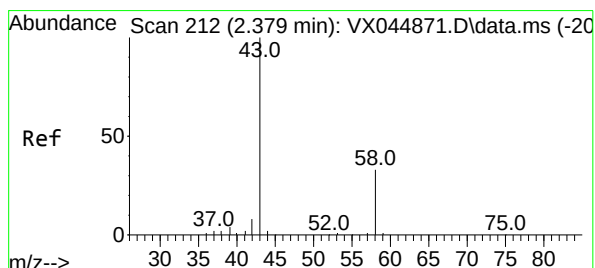
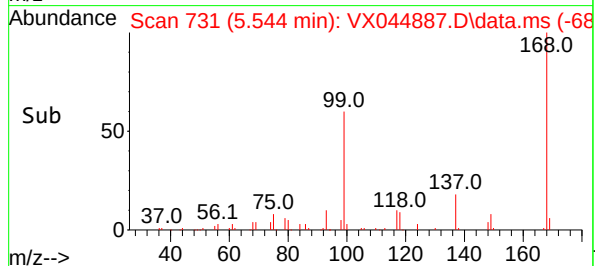
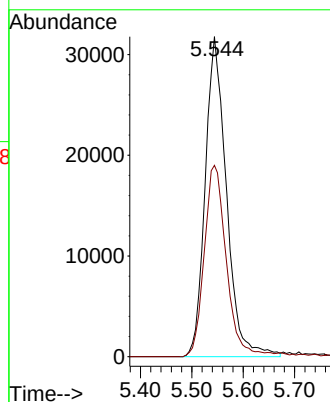
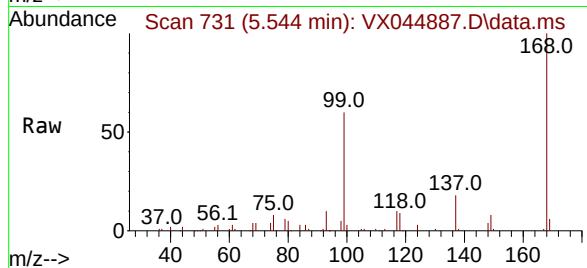
BP-VPB-192-GW-440-442

Tgt Ion:168 Resp: 91120

Ion Ratio Lower Upper

168 100

99 59.8 51.2 76.8



#16

Acetone

Concen: 10.966 ug/l

RT: 2.380 min Scan# 212

Delta R.T. 0.000 min

Lab File: VX044887.D

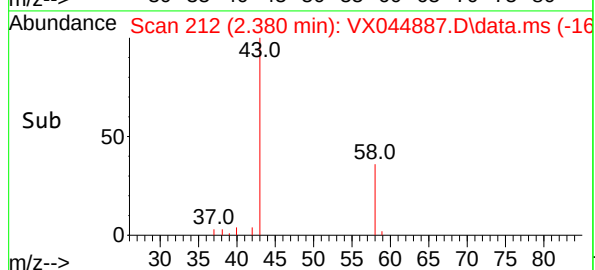
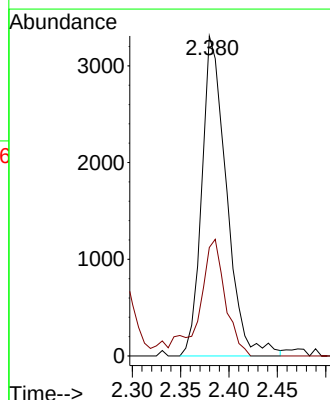
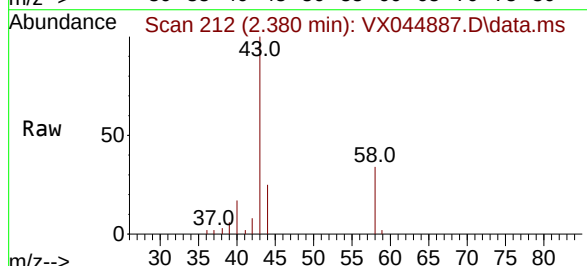
Acq: 10 Feb 2025 18:00

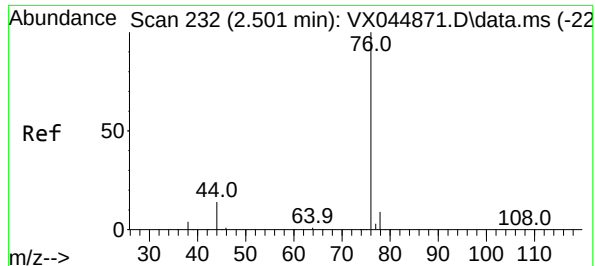
Tgt Ion: 43 Resp: 5880

Ion Ratio Lower Upper

43 100

58 33.9 26.5 39.7





#17

Carbon Disulfide

Concen: 0.453 ug/l

RT: 2.502 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX044887.D

Acq: 10 Feb 2025 18:00

Instrument :

MSVOA_X

ClientSampleId :

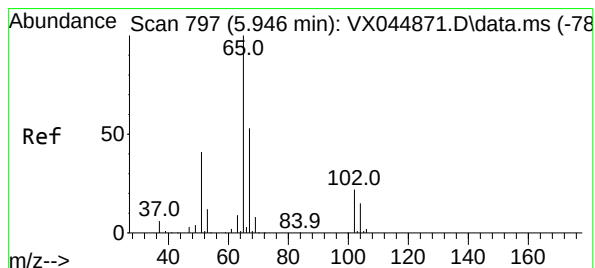
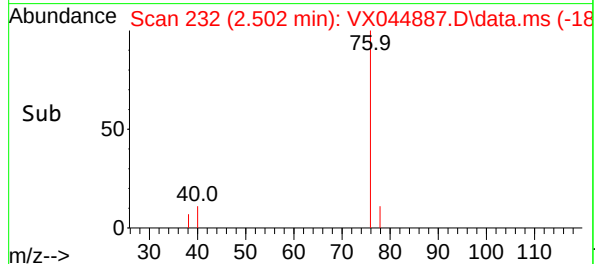
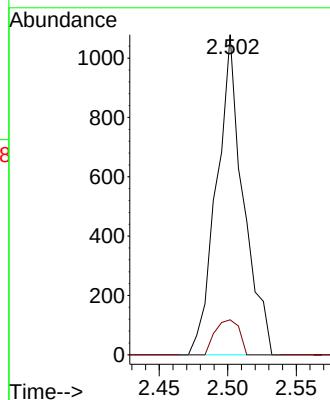
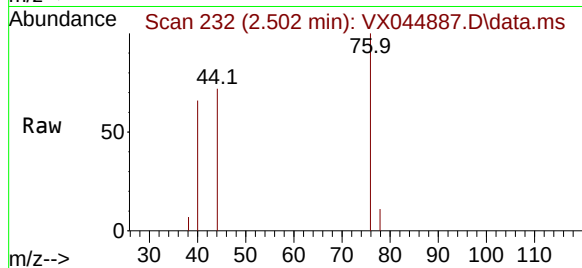
BP-VPB-192-GW-440-442

Tgt Ion: 76 Resp: 1460

Ion Ratio Lower Upper

76 100

78 10.9 7.0 10.4#



#33

1,2-Dichloroethane-d4

Concen: 52.932 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.007 min

Lab File: VX044887.D

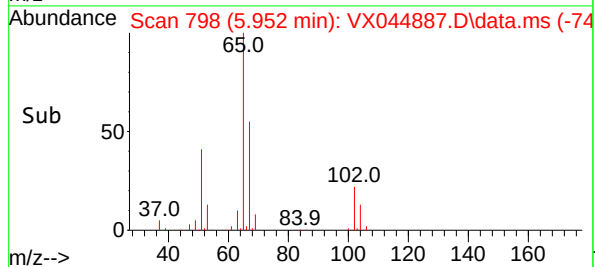
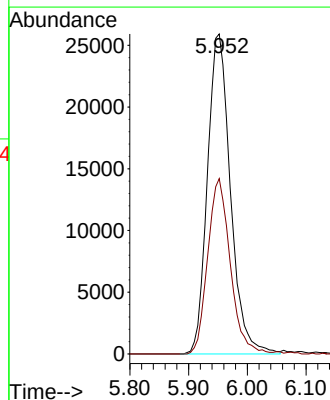
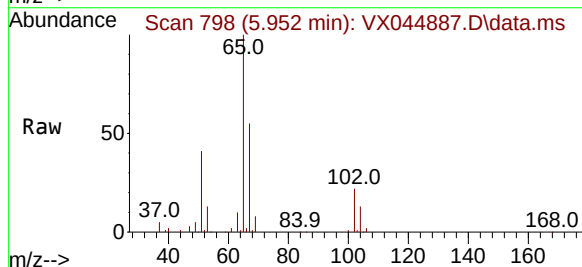
Acq: 10 Feb 2025 18:00

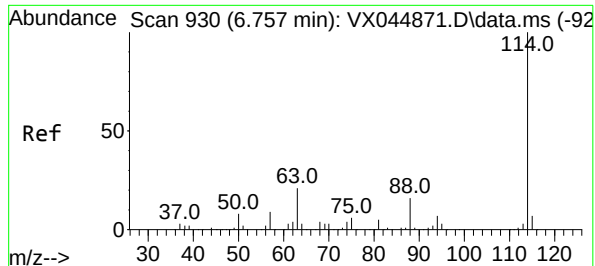
Tgt Ion: 65 Resp: 70603

Ion Ratio Lower Upper

65 100

67 53.5 0.0 108.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX044887.D

Acq: 10 Feb 2025 18:00

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-440-442

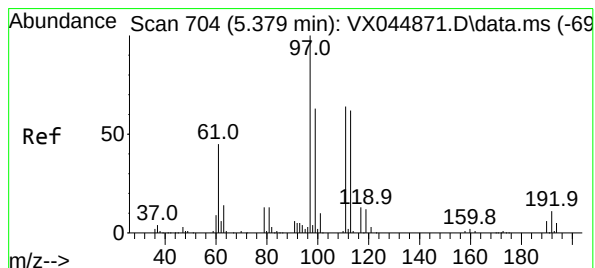
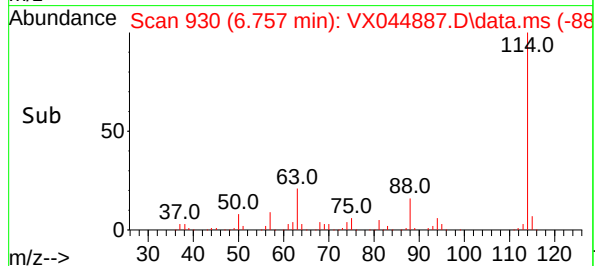
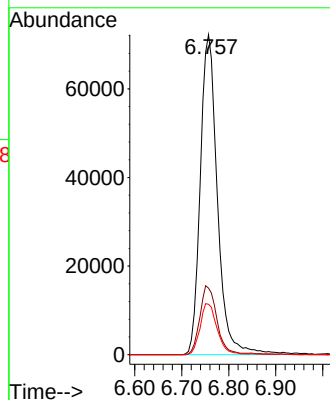
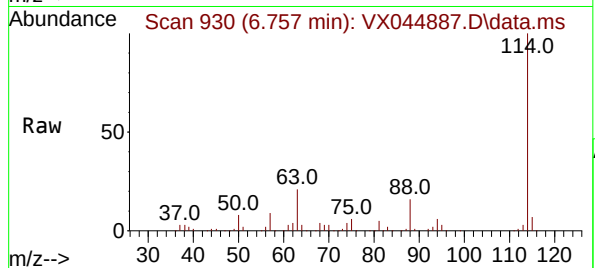
Tgt Ion:114 Resp: 183168

Ion Ratio Lower Upper

114 100

63 20.8 0.0 42.4

88 15.8 0.0 31.4



#35

Dibromofluoromethane

Concen: 51.046 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044887.D

Acq: 10 Feb 2025 18:00

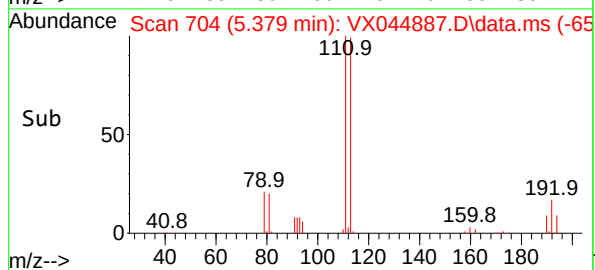
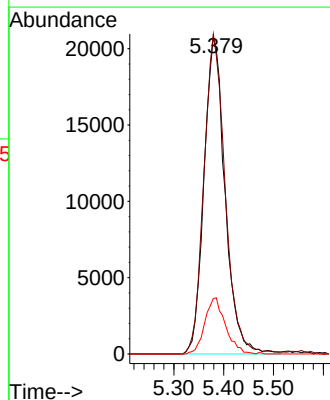
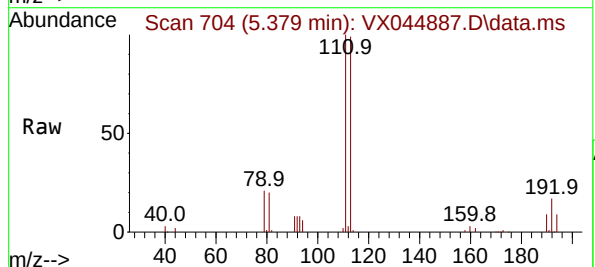
Tgt Ion:113 Resp: 60790

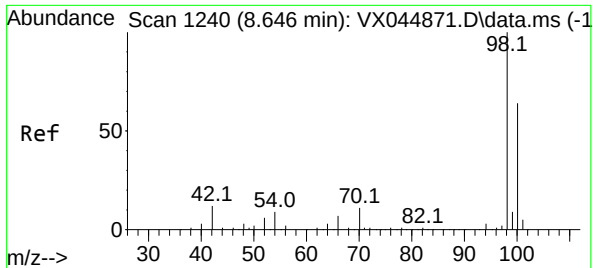
Ion Ratio Lower Upper

113 100

111 101.7 83.5 125.3

192 17.3 14.4 21.6





#50

Toluene-d8

Concen: 50.204 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044887.D

Acq: 10 Feb 2025 18:00

Instrument :

MSVOA_X

ClientSampleId :

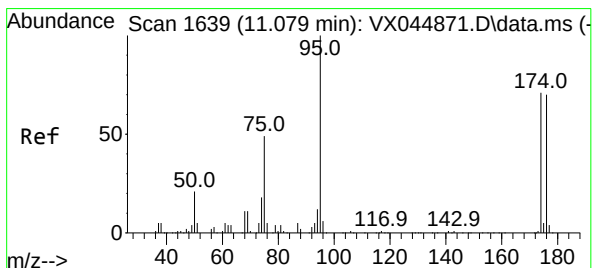
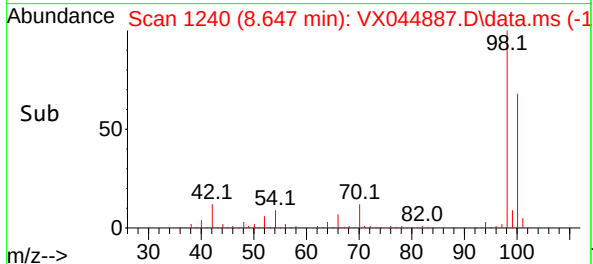
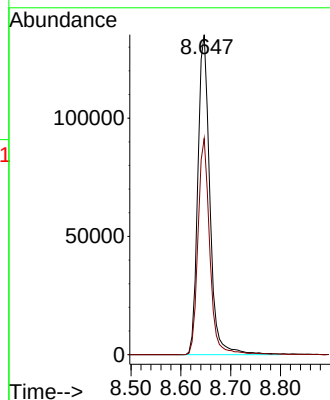
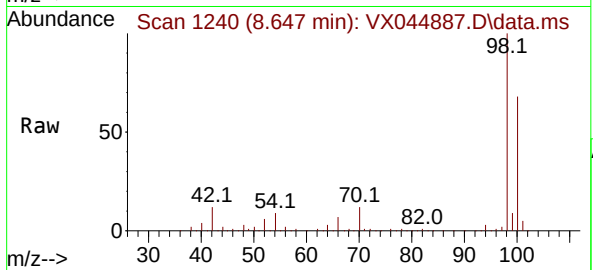
BP-VPB-192-GW-440-442

Tgt Ion: 98 Resp: 226081

Ion Ratio Lower Upper

98 100

100 65.8 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 51.030 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX044887.D

Acq: 10 Feb 2025 18:00

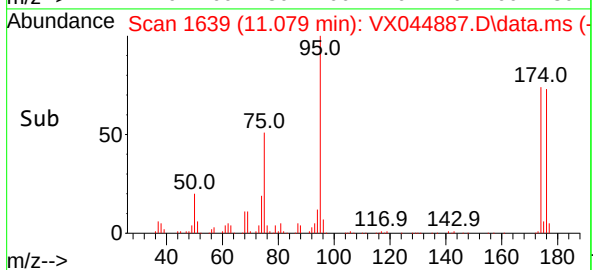
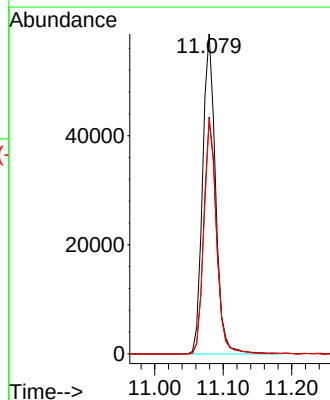
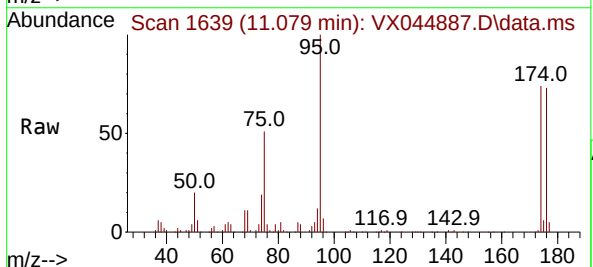
Tgt Ion: 95 Resp: 77471

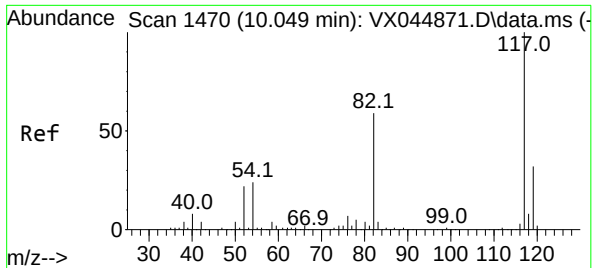
Ion Ratio Lower Upper

95 100

174 72.5 0.0 142.6

176 70.6 0.0 141.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX044887.D

Acq: 10 Feb 2025 18:00

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-440-442

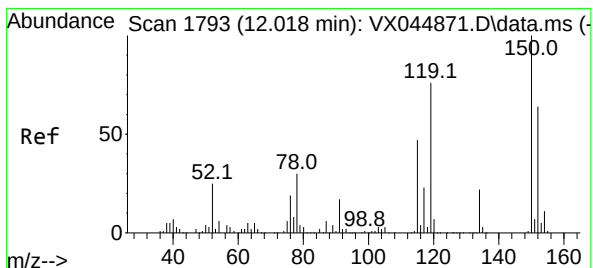
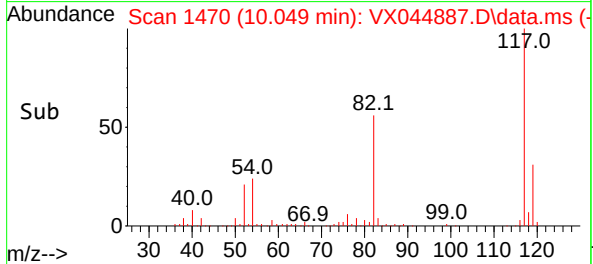
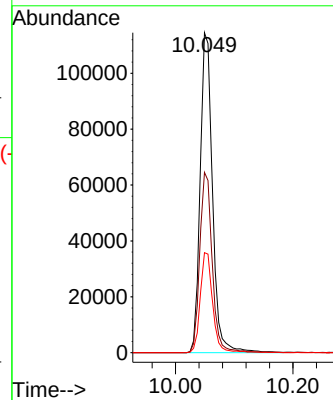
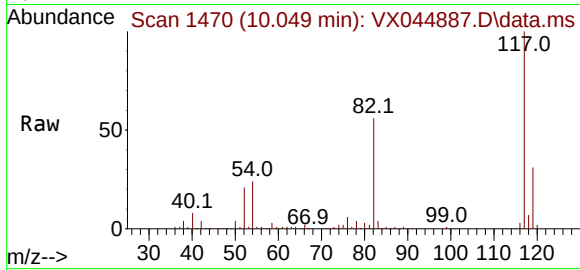
Tgt Ion:117 Resp: 166878

Ion Ratio Lower Upper

117 100

82 56.4 47.5 71.3

119 31.3 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX044887.D

Acq: 10 Feb 2025 18:00

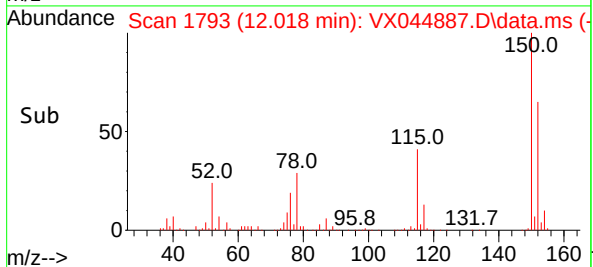
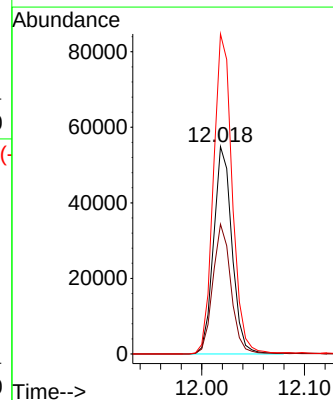
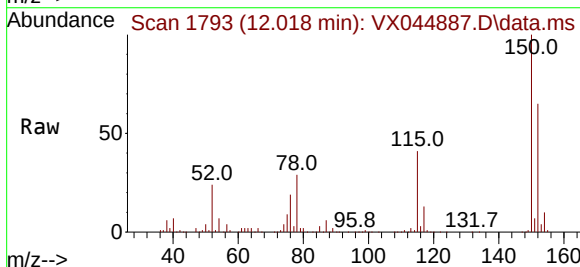
Tgt Ion:152 Resp: 68152

Ion Ratio Lower Upper

152 100

115 62.2 43.4 130.1

150 158.6 0.0 350.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044887.D
 Acq On : 10 Feb 2025 18:00
 Operator : JC/MD
 Sample : Q1250-12
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-192-GW-440-442

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M

Title : SW846 8260

Signal : TIC: VX044887.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.142	6	9	12	rBV	6263	6877	1.14%	0.218%
2	1.447	55	59	64	rBV	9173	11286	1.86%	0.358%
3	1.587	73	82	83	rBV4	4865	9755	1.61%	0.309%
4	2.386	206	213	220	rVB	5547	10097	1.67%	0.320%
5	5.379	692	704	721	rBV	67986	200714	33.16%	6.367%
6	5.544	721	731	749	rBV	93778	275425	45.50%	8.737%
7	5.946	788	797	813	rBV2	76909	204671	33.81%	6.492%
8	6.757	921	930	945	rBV	169668	424985	70.21%	13.481%
9	8.647	1233	1240	1257	rBV	363345	605343	100.00%	19.202%
10	9.525	1380	1384	1396	rBV3	8925	19835	3.28%	0.629%
11	10.049	1465	1470	1493	rVB	358483	524998	86.73%	16.653%
12	10.860	1599	1603	1614	rBV2	7509	12461	2.06%	0.395%
13	11.079	1634	1639	1654	rVB	285704	369816	61.09%	11.731%
14	11.933	1775	1779	1785	rBV2	8908	13980	2.31%	0.443%
15	12.018	1788	1793	1810	rVB	349418	434888	71.84%	13.795%
16	12.853	1925	1930	1942	rBV	17000	27379	4.52%	0.868%

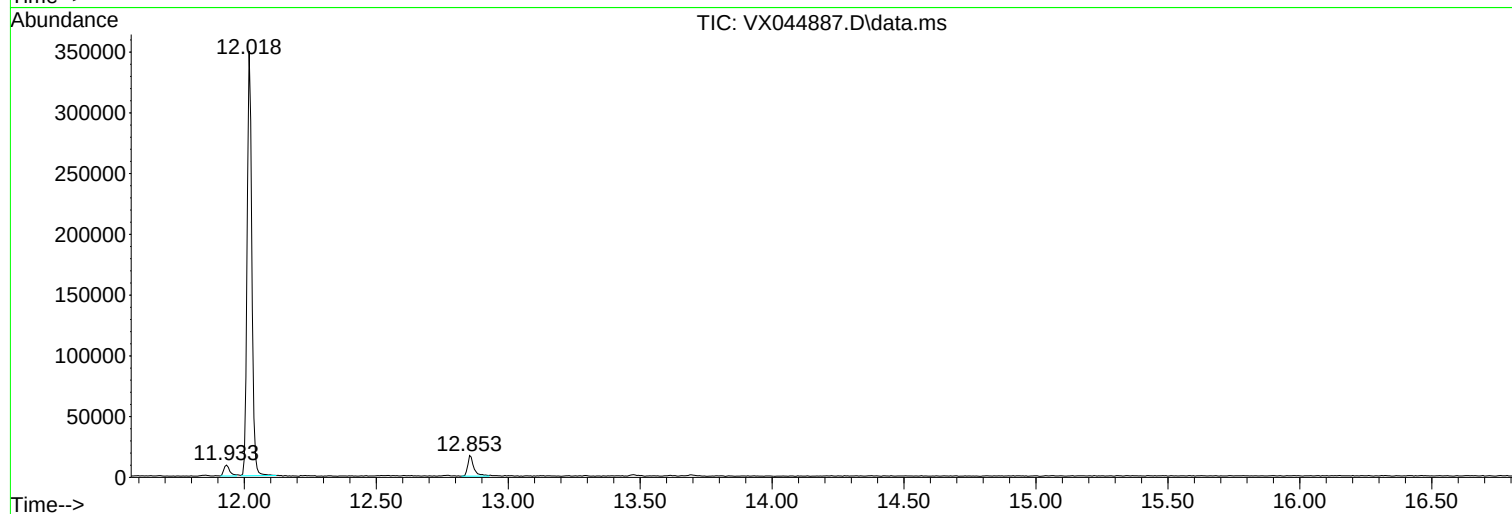
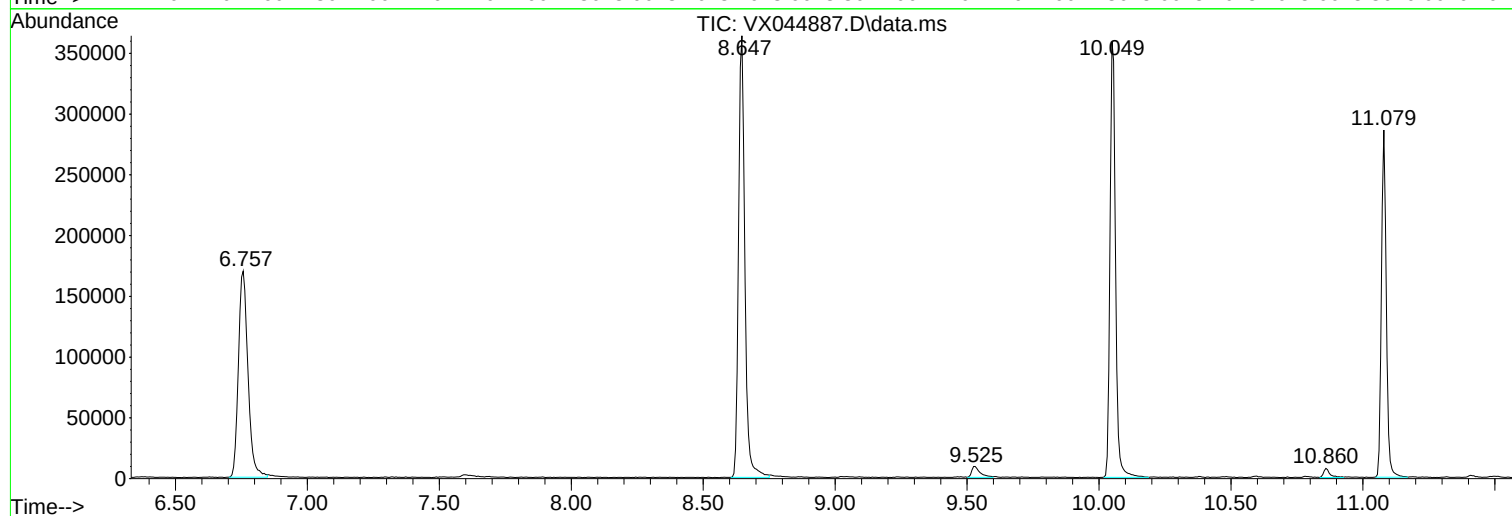
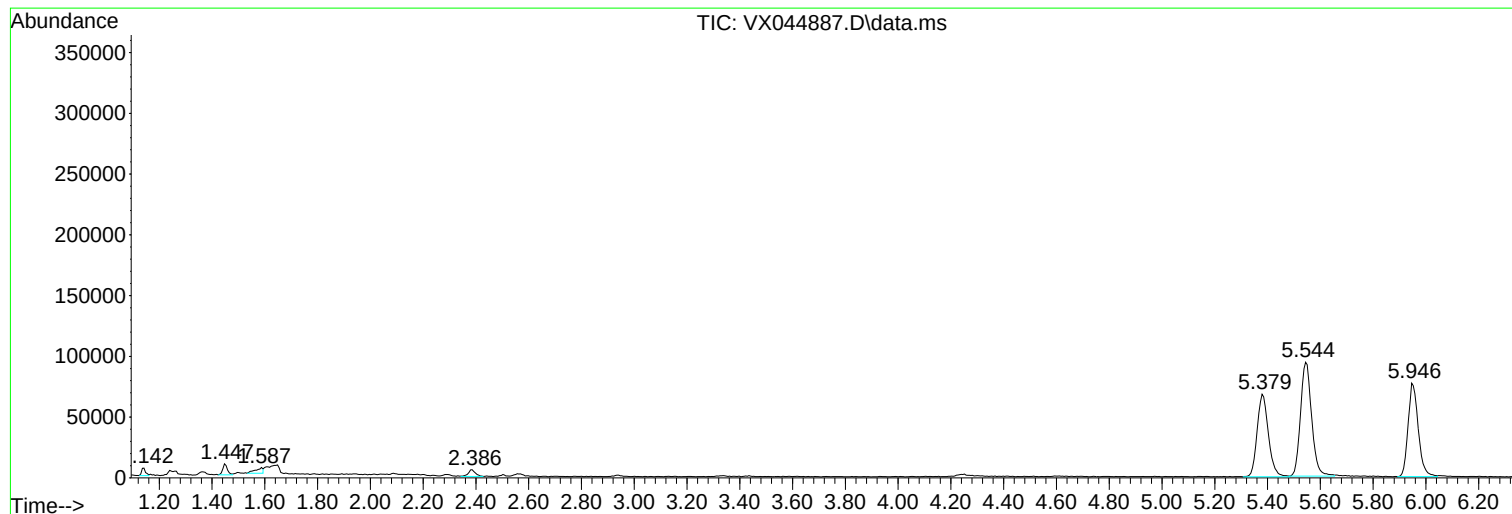
Sum of corrected areas: 3152510

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044887.D
Acq On : 10 Feb 2025 18:00
Operator : JC/MD
Sample : Q1250-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-440-442

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044887.D
Acq On : 10 Feb 2025 18:00
Operator : JC/MD
Sample : Q1250-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-440-442

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044887.D
Acq On : 10 Feb 2025 18:00
Operator : JC/MD
Sample : Q1250-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-440-442

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc



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: TETR06
 Lab Code: CHEM Case No.: Q1250 SAS No.: Q1250 SDG No.: Q1250
 Instrument ID: MSVOA_X Calibration Date(s): 02/10/2025 02/10/2025
 Heated Purge: (Y/N) N Calibration Time(s): 10:25 12:28
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:	RRF001 = VX044868.D			RRF005 = VX044869.D		RRF020 = VX044870.D		
	RRF050 = VX044871.D			RRF100 = VX044872.D		RRF150 = VX044873.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Chloromethane	0.958	0.860	0.862	0.843	0.805	0.793	0.854	6.9
Vinyl Chloride	0.839	0.846	0.847	0.808	0.807	0.814	0.827	2.3
Bromomethane		0.248	0.252	0.249	0.242	0.246	0.247	1.4
Chloroethane	0.500	0.288	0.280	0.341	0.249	0.181	0.307	35.4
Trichlorofluoromethane	1.062	1.066	1.096	1.029	1.013	1.008	1.046	3.3
1,1,2-Trichlorotrifluoroethane	0.583	0.647	0.668	0.626	0.631	0.637	0.632	4.5
1,1-Dichloroethene	0.647	0.639	0.661	0.630	0.632	0.657	0.644	2
Acetone	0.305	0.292	0.298	0.293	0.285	0.292	0.294	2.3
Carbon Disulfide	1.689	1.732	1.786	1.762	1.789	1.846	1.767	3
Methyl tert-butyl Ether	1.941	2.065	2.130	2.046	2.011	2.110	2.050	3.4
Methylene Chloride	0.747	0.717	0.741	0.704	0.695	0.720	0.721	2.8
trans-1,2-Dichloroethene	0.608	0.622	0.657	0.640	0.633	0.644	0.634	2.7
1,1-Dichloroethane	1.155	1.257	1.292	1.227	1.209	1.257	1.233	3.9
2-Butanone	0.422	0.472	0.504	0.506	0.477	0.487	0.478	6.4
Carbon Tetrachloride	0.457	0.466	0.478	0.453	0.445	0.459	0.460	2.4
cis-1,2-Dichloroethene	0.680	0.783	0.812	0.758	0.758	0.779	0.762	5.9
Chloroform	1.167	1.209	1.268	1.169	1.153	1.208	1.196	3.5
1,1,1-Trichloroethane	1.014	1.003	1.051	1.005	0.984	1.028	1.014	2.3
Methylcyclohexane	0.509	0.571	0.667	0.622	0.634	0.635	0.606	9.4
Benzene	1.370	1.488	1.577	1.470	1.429	1.453	1.465	4.7
1,2-Dichloroethane	0.417	0.465	0.502	0.472	0.462	0.482	0.467	6.1
Trichloroethene	0.293	0.340	0.367	0.335	0.332	0.343	0.335	7.2
1,2-Dichloropropane	0.343	0.354	0.389	0.367	0.360	0.372	0.364	4.3
Bromodichloromethane	0.428	0.481	0.514	0.500	0.500	0.513	0.489	6.6
4-Methyl-2-Pentanone	0.439	0.514	0.562	0.554	0.506	0.498	0.512	8.6
Toluene	0.776	0.872	0.957	0.898	0.866	0.864	0.872	6.7
t-1,3-Dichloropropene	0.417	0.451	0.518	0.514	0.528	0.543	0.495	10
cis-1,3-Dichloropropene	0.452	0.511	0.587	0.577	0.587	0.599	0.552	10.5
1,1,2-Trichloroethane	0.307	0.342	0.362	0.341	0.331	0.329	0.335	5.4
2-Hexanone	0.313	0.360	0.406	0.404	0.369	0.362	0.369	9.3

* 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: TETR06
 Lab Code: CHEM Case No.: Q1250 SAS No.: Q1250 SDG No.: Q1250
 Instrument ID: MSVOA_X Calibration Date(s): 02/10/2025 02/10/2025
 Heated Purge: (Y/N) N Calibration Time(s): 10:25 12:28
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX044868.D		RRF005 = VX044869.D		RRF020 = VX044870.D			
		RRF050 = VX044871.D		RRF100 = VX044872.D		RRF150 = VX044873.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dibromochloromethane	0.317	0.342	0.381	0.373	0.368	0.370	0.359	6.7	
Tetrachloroethene	0.306	0.311	0.343	0.310	0.307	0.314	0.315	4.4	
Chlorobenzene	0.969	1.093	1.140	1.096	1.071	1.076	1.074	5.3	
Ethyl Benzene	1.690	1.873	2.021	1.935	1.923	1.929	1.895	5.9	
m/p-Xylenes	0.616	0.700	0.754	0.724	0.706	0.694	0.699	6.6	
o-Xylene	0.661	0.721	0.747	0.707	0.691	0.681	0.701	4.4	
Styrene	0.909	1.124	1.249	1.199	1.161	1.139	1.130	10.4	
Bromoform	0.186	0.247	0.272	0.280	0.276	0.287	0.258	14.7	
Isopropylbenzene	3.735	4.012	4.347	4.045	3.940	4.076	4.026	4.9	
1,1,2,2-Tetrachloroethane	1.429	1.403	1.438	1.366	1.305	1.360	1.383	3.6	
1,3-Dichlorobenzene	1.616	1.669	1.741	1.679	1.663	1.703	1.678	2.5	
1,4-Dichlorobenzene	1.662	1.712	1.762	1.686	1.660	1.701	1.697	2.2	
1,2-Dichlorobenzene	1.512	1.713	1.763	1.666	1.604	1.639	1.650	5.3	
1,2-Dichloroethane-d4		0.764	0.718	0.723	0.707	0.747	0.732	3.2	
Dibromofluoromethane		0.335	0.322	0.320	0.320	0.328	0.325	2	
Toluene-d8		1.239	1.249	1.239	1.208	1.212	1.229	1.5	
4-Bromofluorobenzene		0.404	0.410	0.431	0.415	0.412	0.414	2.5	

* 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 : 82X021025W.M
 Title : SW846 8260
 Last Update : Tue Feb 11 03:41:08 2025
 Response Via : Initial Calibration

Calibration Files

1 =VX044868.D 5 =VX044869.D 20 =VX044870.D 50 =VX044871.D 100 =VX044872.D 150 =VX044873.D

	Compound	1	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.723	0.669	0.716	0.700	0.706	0.693	0.701	2.71
3) P	Chloromethane	0.958	0.860	0.862	0.843	0.805	0.793	0.854	6.89
4) C	Vinyl Chloride	0.839	0.846	0.847	0.808	0.807	0.814	0.827	2.33#
5) T	Bromomethane		0.248	0.252	0.249	0.242	0.246	0.247	1.44
6) T	Chloroethane	0.500	0.288	0.280	0.341	0.249	0.181	0.307	35.36
7) T	Trichlorofluor...	1.062	1.066	1.096	1.029	1.013	1.008	1.046	3.32
8) T	Diethyl Ether	0.385	0.372	0.399	0.375	0.370	0.374	0.379	2.94
9) T	1,1,2-Trichlor...	0.583	0.647	0.668	0.626	0.631	0.637	0.632	4.45
10) T	Methyl Iodide		0.752	0.864	0.847	0.819	0.813	0.819	5.22
11) T	Tert butyl alc...		0.148	0.138	0.136	0.128	0.129	0.136	5.92
12) CM	1,1-Dichloroet...	0.647	0.639	0.661	0.630	0.632	0.657	0.644	2.04#
13) T	Acrolein		0.143	0.131	0.141	0.139	0.145	0.140	3.99
14) T	Allyl chloride	1.179	1.150	1.187	1.157	1.149	1.167	1.165	1.36
15) T	Acrylonitrile	0.337	0.354	0.380	0.379	0.360	0.364	0.363	4.41
16) T	Acetone	0.305	0.292	0.298	0.293	0.285	0.292	0.294	2.26
17) T	Carbon Disulfide	1.689	1.732	1.786	1.762	1.789	1.846	1.767	3.04
18) T	Methyl Acetate	0.882	0.901	0.926	0.946	0.922	0.995	0.928	4.22
19) T	Methyl tert-bu...	1.941	2.065	2.130	2.046	2.011	2.110	2.050	3.36
20) T	Methylene Chlo...	0.747	0.717	0.741	0.704	0.695	0.720	0.721	2.82
21) T	trans-1,2-Dich...	0.608	0.622	0.657	0.640	0.633	0.644	0.634	2.74
22) T	Diisopropyl ether	2.049	2.187	2.322	2.245	2.185	2.233	2.203	4.12
23) T	Vinyl Acetate	1.540	1.750	1.892	1.860	1.843	1.892	1.796	7.56
24) P	1,1-Dichloroet...	1.155	1.257	1.292	1.227	1.209	1.257	1.233	3.86
25) T	2-Butanone	0.422	0.472	0.504	0.506	0.477	0.487	0.478	6.40
26) T	2,2-Dichloropr...	0.957	0.982	1.000	0.952	0.959	1.017	0.978	2.71
27) T	cis-1,2-Dichlo...	0.680	0.783	0.812	0.758	0.758	0.779	0.762	5.87
28) T	Bromochloromet...	0.634	0.579	0.607	0.584	0.572	0.579	0.593	4.04
29) T	Tetrahydrofuran	0.299	0.310	0.335	0.329	0.313	0.317	0.317	4.13
30) C	Chloroform	1.167	1.209	1.268	1.169	1.153	1.208	1.196	3.53#
31) T	Cyclohexane		1.154	1.174	1.121	1.107	1.127	1.137	2.35
32) T	1,1,1-Trichlor...	1.014	1.003	1.051	1.005	0.984	1.028	1.014	2.26
33) S	1,2-Dichloroet...		0.764	0.718	0.723	0.707	0.747	0.732	3.17
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.335	0.322	0.320	0.320	0.328	0.325	1.98
36) T	1,1-Dichloropr...	0.472	0.467	0.490	0.463	0.457	0.465	0.469	2.47
37) T	Ethyl Acetate	0.477	0.534	0.546	0.527	0.516	0.528	0.522	4.57
38) T	Carbon Tetrach...	0.457	0.466	0.478	0.453	0.445	0.459	0.460	2.44
39) T	Methylcyclohexane	0.509	0.571	0.667	0.622	0.634	0.635	0.606	9.36
40) TM	Benzene	1.370	1.488	1.577	1.470	1.429	1.453	1.465	4.69
41) T	Methacrylonitrile	0.237	0.262	0.292	0.302	0.287	0.295	0.279	8.84
42) TM	1,2-Dichloroet...	0.417	0.465	0.502	0.472	0.462	0.482	0.467	6.08
43) T	Isopropyl Acetate	0.755	0.782	0.899	0.876	0.858	0.885	0.842	7.05
44) TM	Trichloroethene	0.293	0.340	0.367	0.335	0.332	0.343	0.335	7.20
45) C	1,2-Dichloropr...	0.343	0.354	0.389	0.367	0.360	0.372	0.364	4.32#
46) T	Dibromomethane	0.236	0.245	0.270	0.255	0.252	0.258	0.253	4.48
47) T	Bromodichlorom...	0.428	0.481	0.514	0.500	0.500	0.513	0.489	6.60
48) T	Methyl methacr...	0.330	0.367	0.424	0.421	0.414	0.427	0.397	10.05
49) T	1,4-Dioxane	0.009	0.009	0.009	0.009	0.008	0.008	0.009	6.54
50) S	Toluene-d8		1.239	1.249	1.239	1.208	1.212	1.229	1.49
51) T	4-Methyl-2-Pen...	0.439	0.514	0.562	0.554	0.506	0.498	0.512	8.61
52) CM	Toluene	0.776	0.872	0.957	0.898	0.866	0.864	0.872	6.74#
53) T	t-1,3-Dichloro...	0.417	0.451	0.518	0.514	0.528	0.543	0.495	10.04
54) T	cis-1,3-Dichlo...	0.452	0.511	0.587	0.577	0.587	0.599	0.552	10.49
55) T	1,1,2-Trichlor...	0.307	0.342	0.362	0.341	0.331	0.329	0.335	5.44
56) T	Ethyl methacry...	0.462	0.488	0.583	0.577	0.568	0.571	0.542	9.74

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X021025W.M

57)	T	1,3-Dichloropr...	0.531	0.586	0.641	0.605	0.579	0.578	0.587	6.13
58)	T	2-Chloroethyl ...	0.213	0.249	0.284	0.288	0.281	0.281	0.266	11.18
59)	T	2-Hexanone	0.313	0.360	0.406	0.404	0.369	0.362	0.369	9.31
60)	T	Dibromochlorom...	0.317	0.342	0.381	0.373	0.368	0.370	0.359	6.71
61)	T	1,2-Dibromoethane	0.302	0.330	0.367	0.350	0.345	0.345	0.340	6.55
62)	S	4-Bromofluorob...	0.404	0.410	0.431	0.415	0.412	0.414		2.47
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.306	0.311	0.343	0.310	0.307	0.314	0.315	4.43
65)	PM	Chlorobenzene	0.969	1.093	1.140	1.096	1.071	1.076	1.074	5.32
66)	T	1,1,1,2-Tetrac...	0.302	0.338	0.365	0.354	0.355	0.360	0.346	6.76
67)	C	Ethyl Benzene	1.690	1.873	2.021	1.935	1.923	1.929	1.895	5.87#
68)	T	m/p-Xylenes	0.616	0.700	0.754	0.724	0.706	0.694	0.699	6.58
69)	T	o-Xylene	0.661	0.721	0.747	0.707	0.691	0.681	0.701	4.36
70)	T	Styrene	0.909	1.124	1.249	1.199	1.161	1.139	1.130	10.38
71)	P	Bromoform	0.186	0.247	0.272	0.280	0.276	0.287	0.258	14.69
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.735	4.012	4.347	4.045	3.940	4.076	4.026	4.95
74)	T	N-amyl acetate	1.431	1.744	1.915	1.902	1.889	2.051	1.822	11.80
75)	P	1,1,2,2-Tetrac...	1.429	1.403	1.438	1.366	1.305	1.360	1.383	3.61
76)	T	1,2,3-Trichlor...	1.046	1.153	1.141	1.106	1.085	1.120	1.109	3.53
77)	T	Bromobenzene	0.847	0.920	0.978	0.911	0.897	0.923	0.913	4.65
78)	T	n-propylbenzene	4.049	4.600	4.974	4.723	4.699	4.837	4.647	6.88
79)	T	2-Chlorotoluene	2.859	2.860	3.034	2.842	2.720	2.820	2.856	3.56
80)	T	1,3,5-Trimethy...	2.981	3.326	3.543	3.319	3.201	3.233	3.267	5.64
81)	T	trans-1,4-Dich...	0.346	0.417	0.437	0.457	0.498	0.431		13.01
82)	T	4-Chlorotoluene	2.958	3.156	3.320	3.193	3.116	3.214	3.160	3.81
83)	T	tert-Butylbenzene	3.097	3.350	3.539	3.312	3.236	3.296	3.305	4.38
84)	T	1,2,4-Trimethy...	2.687	3.252	3.535	3.359	3.220	3.295	3.225	8.87
85)	T	sec-Butylbenzene	3.692	4.025	4.421	4.146	4.102	4.169	4.093	5.80
86)	T	p-Isopropyltol...	2.844	3.229	3.546	3.402	3.325	3.401	3.291	7.37
87)	T	1,3-Dichlorobe...	1.616	1.669	1.741	1.679	1.663	1.703	1.678	2.49
88)	T	1,4-Dichlorobe...	1.662	1.712	1.762	1.686	1.660	1.701	1.697	2.22
89)	T	n-Butylbenzene	2.138	2.696	3.087	3.105	3.194	3.251	2.912	14.63
90)	T	Hexachloroethane	0.533	0.589	0.629	0.615	0.643	0.689	0.616	8.53
91)	T	1,2-Dichlorobe...	1.512	1.713	1.763	1.666	1.604	1.639	1.650	5.30
92)	T	1,2-Dibromo-3-...	0.202	0.236	0.268	0.258	0.261	0.289	0.252	11.87
93)	T	1,2,4-Trichlor...	0.860	0.934	1.013	1.013	1.057	1.112	0.998	8.98
94)	T	Hexachlorobuta...	0.383	0.376	0.416	0.383	0.408	0.411	0.396	4.36
95)	T	Naphthalene	2.824	3.432	3.879	3.752	3.771	3.991	3.608	11.84
96)	T	1,2,3-Trichlor...	0.858	0.952	1.042	1.031	1.043	1.109	1.006	8.75

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044868.D
 Acq On : 10 Feb 2025 10:25
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 03:33:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:33:20 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	134134	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	254149	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	218570	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	90733	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	1.160	85	1939m	1.031	ug/l	
3) Chloromethane	1.307	50	2571	1.123	ug/l	94
4) Vinyl Chloride	1.374	62	2252	1.015	ug/l	96
6) Chloroethane	1.666	64	1341	2.592	ug/l	91
7) Trichlorofluoromethane	1.874	101	2849	1.016	ug/l	88
8) Diethyl Ether	2.130	74	1032	1.014	ug/l #	37
9) 1,1,2-Trichlorotrifluo...	2.325	101	1564	0.923	ug/l #	88
12) 1,1-Dichloroethene	2.307	96	1737	1.005	ug/l	85
14) Allyl chloride	2.654	41	3164	1.013	ug/l	90
15) Acrylonitrile	3.069	53	4527	4.655	ug/l	95
16) Acetone	2.380	43	4095	5.188	ug/l	92
17) Carbon Disulfide	2.502	76	4531	0.956	ug/l #	88
18) Methyl Acetate	2.697	43	2367	0.950	ug/l	95
19) Methyl tert-butyl Ether	3.117	73	5206	0.946	ug/l #	87
20) Methylene Chloride	2.782	84	2005	1.037	ug/l #	90
21) trans-1,2-Dichloroethene	3.087	96	1631	0.959	ug/l	96
22) Diisopropyl ether	3.764	45	5496	0.930	ug/l #	75
23) Vinyl Acetate	3.727	43	20663	4.288	ug/l	99
24) 1,1-Dichloroethane	3.605	63	3099	0.937	ug/l #	93
25) 2-Butanone	4.587	43	5660	4.416	ug/l	93
26) 2,2-Dichloropropane	4.471	77	2566	0.978	ug/l	76
27) cis-1,2-Dichloroethene	4.489	96	1825	0.893	ug/l	91
28) Bromochloromethane	4.910	49	1702	1.071	ug/l #	75
29) Tetrahydrofuran	5.026	42	4014	4.716	ug/l	99
30) Chloroform	5.093	83	3132	0.976	ug/l	94
32) 1,1,1-Trichloroethane	5.379	97	2721	1.000	ug/l #	50
36) 1,1-Dichloropropene	5.684	75	2399	1.006	ug/l	94
37) Ethyl Acetate	4.721	43	2426m	0.915	ug/l	
38) Carbon Tetrachloride	5.666	117	2322	0.994	ug/l #	74
39) Methylcyclohexane	7.379	83	2589	0.840	ug/l	96
40) Benzene	6.038	78	6963	0.935	ug/l	94
41) Methacrylonitrile	4.958	41	1205m	0.849	ug/l	
42) 1,2-Dichloroethane	6.099	62	2120	0.894	ug/l	84
43) Isopropyl Acetate	6.355	43	3839	0.897	ug/l #	88
44) Trichloroethene	7.135	130	1487	0.874	ug/l	76
45) 1,2-Dichloropropane	7.440	63	1746	0.943	ug/l #	86

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044868.D
 Acq On : 10 Feb 2025 10:25
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 03:33:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:33:20 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	7.592	93	1202	0.936	ug/l	95
47) Bromodichloromethane	7.818	83	2176	0.875	ug/l	93
48) Methyl methacrylate	7.720	41	1675	0.830	ug/l	92
49) 1,4-Dioxane	7.696	88	867	20.015	ug/l #	85
51) 4-Methyl-2-Pentanone	8.574	43	11169	4.290	ug/l	96
52) Toluene	8.714	92	3943	0.889	ug/l	100
53) t-1,3-Dichloropropene	8.994	75	2119	0.842	ug/l	90
54) cis-1,3-Dichloropropene	8.366	75	2300	0.820	ug/l #	86
55) 1,1,2-Trichloroethane	9.153	97	1558	0.914	ug/l #	86
56) Ethyl methacrylate	9.128	69	2346	0.852	ug/l #	84
57) 1,3-Dichloropropane	9.311	76	2699	0.905	ug/l	95
58) 2-Chloroethyl Vinyl ether	8.251	63	5401	3.996	ug/l	97
59) 2-Hexanone	9.439	43	7952	4.240	ug/l	95
60) Dibromochloromethane	9.525	129	1613	0.885	ug/l	96
61) 1,2-Dibromoethane	9.610	107	1534	0.888	ug/l	97
64) Tetrachloroethene	9.275	164	1339	0.971	ug/l	91
65) Chlorobenzene	10.080	112	4234	0.902	ug/l	93
66) 1,1,1,2-Tetrachloroethane	10.165	131	1320	0.874	ug/l #	64
67) Ethyl Benzene	10.195	91	7388	0.892	ug/l	98
68) m/p-Xylenes	10.299	106	5387	1.763	ug/l	100
69) o-Xylene	10.640	106	2889	0.942	ug/l	97
70) Styrene	10.659	104	3974	0.804	ug/l	97
71) Bromoform	10.799	173	813	0.721	ug/l #	95
73) Isopropylbenzene	10.964	105	6778	0.928	ug/l	99
74) N-amyl acetate	10.848	43	2596	0.785	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.207	83	2594	1.033	ug/l	94
76) 1,2,3-Trichloropropane	11.238	75	1898m	0.943	ug/l	
77) Bromobenzene	11.201	156	1537	0.928	ug/l	90
78) n-propylbenzene	11.305	91	7347	0.871	ug/l	98
79) 2-Chlorotoluene	11.366	91	5188	1.001	ug/l	96
80) 1,3,5-Trimethylbenzene	11.451	105	5410	0.913	ug/l	98
82) 4-Chlorotoluene	11.457	91	5367	0.936	ug/l	99
83) tert-Butylbenzene	11.713	119	5620	0.937	ug/l	96
84) 1,2,4-Trimethylbenzene	11.750	105	4876	0.833	ug/l	88
85) sec-Butylbenzene	11.890	105	6700	0.902	ug/l	99
86) p-Isopropyltoluene	12.006	119	5161	0.864	ug/l	90
87) 1,3-Dichlorobenzene	11.969	146	2933	0.963	ug/l	97
88) 1,4-Dichlorobenzene	12.043	146	3016m	0.979	ug/l	
89) n-Butylbenzene	12.335	91	3880	0.734	ug/l	93
90) Hexachloroethane	12.536	117	968	0.866	ug/l	98
91) 1,2-Dichlorobenzene	12.341	146	2744	0.917	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	12.945	75	367	0.801	ug/l	95
93) 1,2,4-Trichlorobenzene	13.591	180	1560	0.861	ug/l	86
94) Hexachlorobutadiene	13.725	225	695	0.966	ug/l	99
95) Naphthalene	13.780	128	5125	0.783	ug/l	99
96) 1,2,3-Trichlorobenzene	13.969	180	1557	0.853	ug/l	93

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

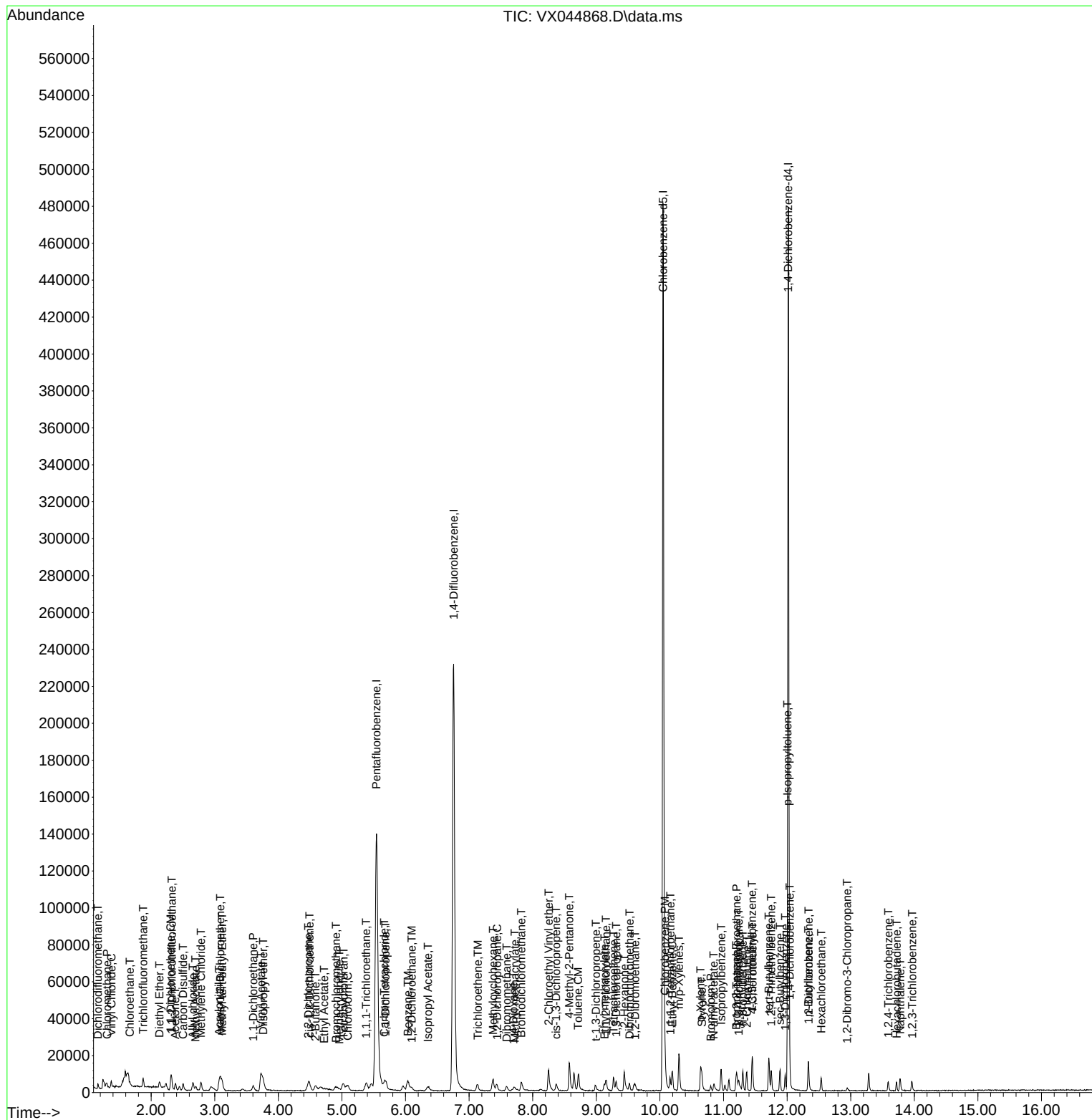
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\  
Data File : VX044868.D  
Acq On    : 10 Feb 2025  10:25  
Operator  : JC/MD  
Sample    : VSTDIC001  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 3      Sample Multiplier: 1
```

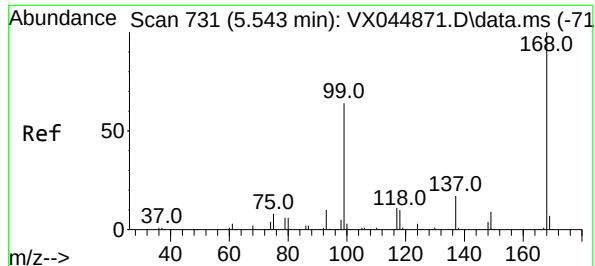
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

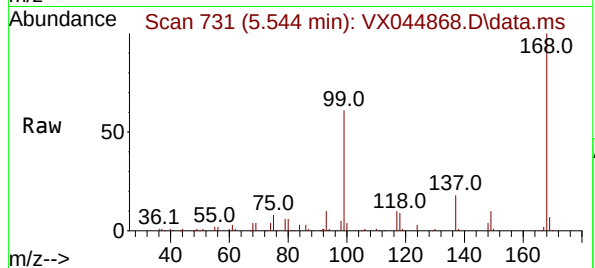
Quant Time: Feb 11 03:33:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:33:20 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. 0.001 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

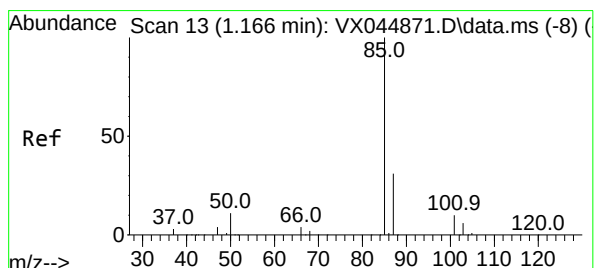
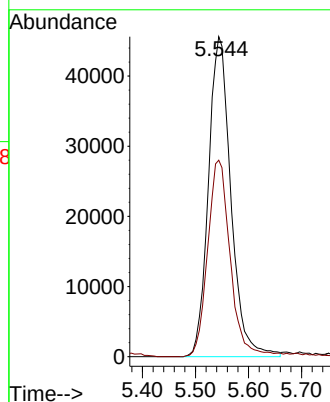
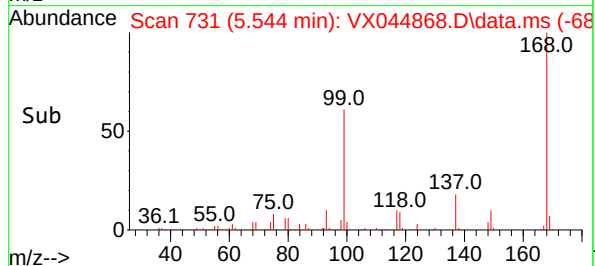
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion:168 Resp: 134134
Ion Ratio Lower Upper
168 100
99 61.4 51.2 76.8

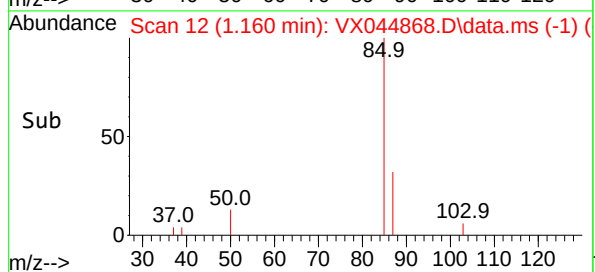
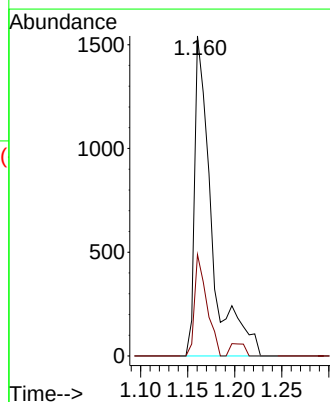
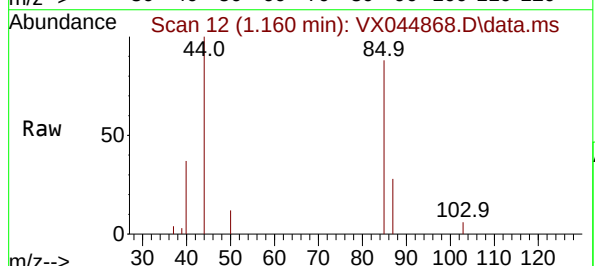
Manual Integrations
APPROVED

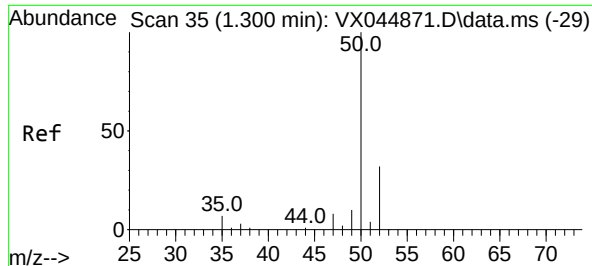
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#2
Dichlorodifluoromethane
Concen: 1.031 ug/l m
RT: 1.160 min Scan# 12
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 85 Resp: 1939
Ion Ratio Lower Upper
85 100
87 31.7 15.8 47.3





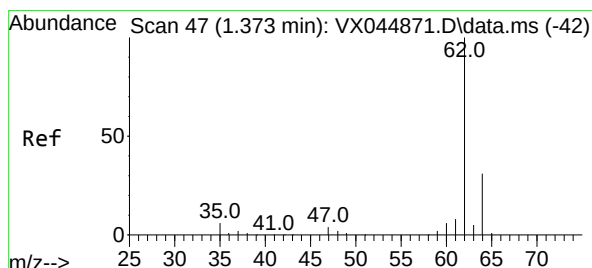
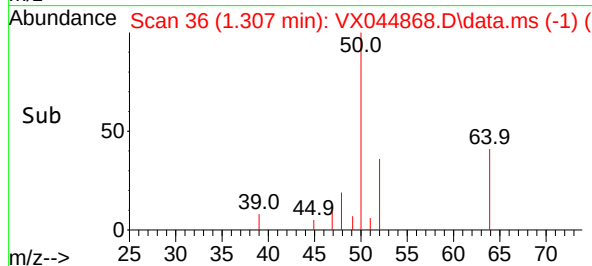
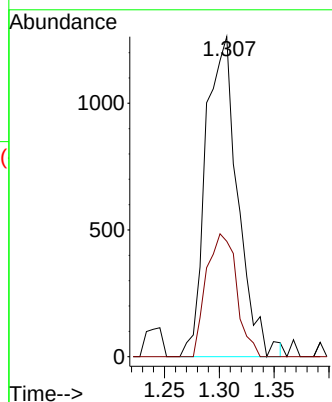
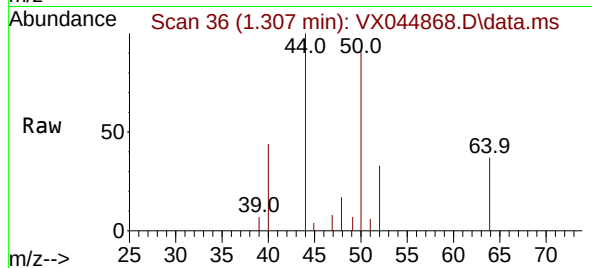
#3
Chloromethane
Concen: 1.123 ug/l
RT: 1.307 min Scan# 30
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 50 Resp: 257
Ion Ratio Lower Upper
50 100
52 36.0 25.9 38.9

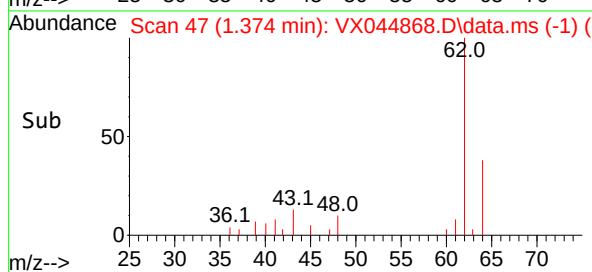
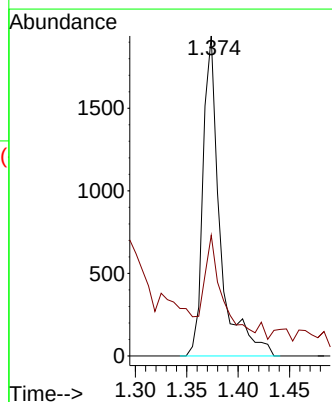
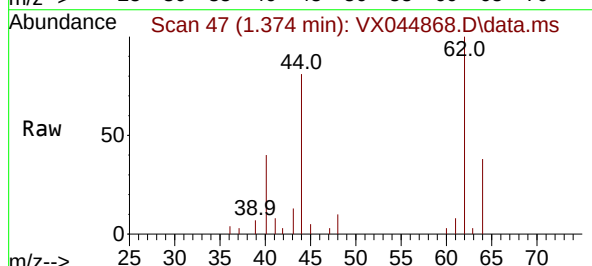
Manual Integrations
APPROVED

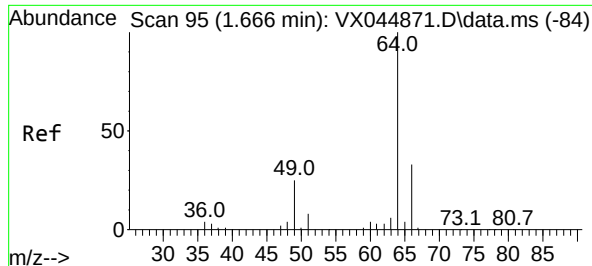
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#4
Vinyl Chloride
Concen: 1.015 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 62 Resp: 2252
Ion Ratio Lower Upper
62 100
64 29.4 25.4 38.0





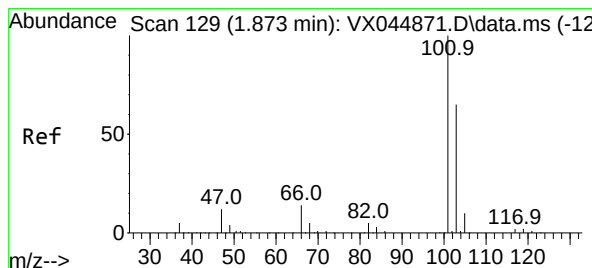
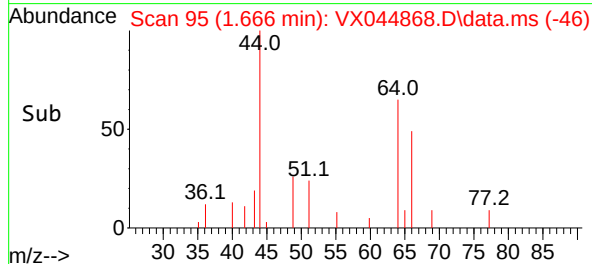
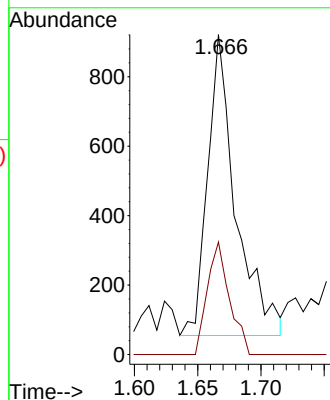
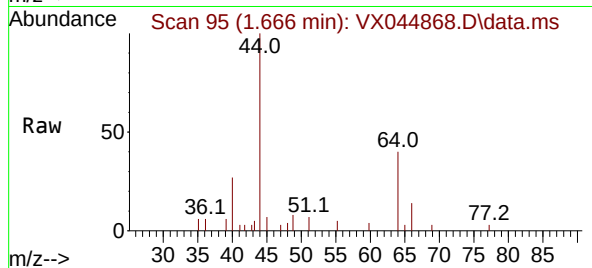
#6
Chloroethane
Concen: 2.592 ug/l
RT: 1.666 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 64 Resp: 134
Ion Ratio Lower Upper
64 100
66 37.4 25.9 38.9

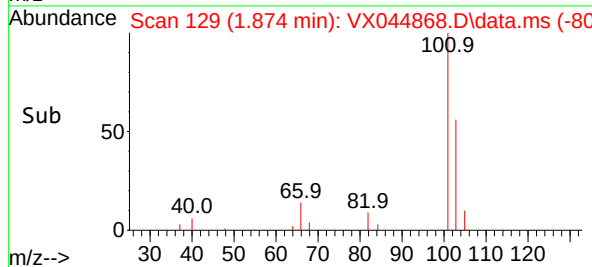
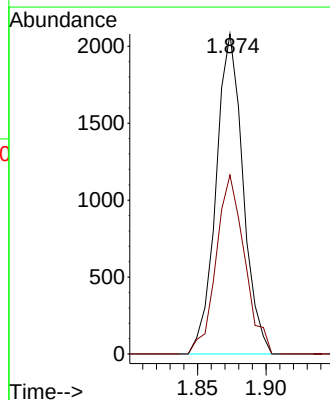
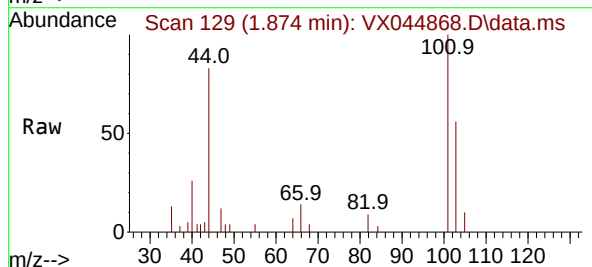
Manual Integrations
APPROVED

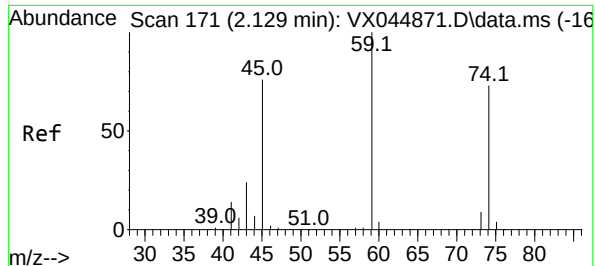
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#7
Trichlorofluoromethane
Concen: 1.016 ug/l
RT: 1.874 min Scan# 129
Delta R.T. 0.001 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

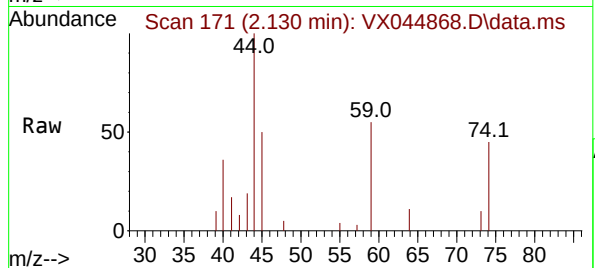
Tgt Ion:101 Resp: 2849
Ion Ratio Lower Upper
101 100
103 55.9 52.4 78.6





#8
Diethyl Ether
Concen: 1.014 ug/l
RT: 2.130 min Scan# 11
Delta R.T. 0.001 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

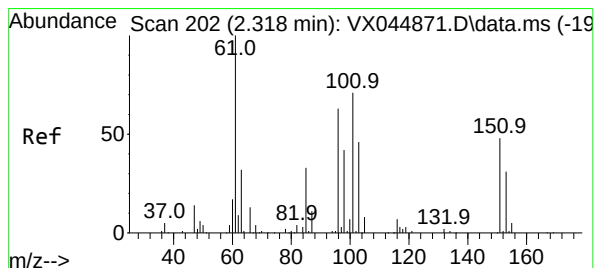
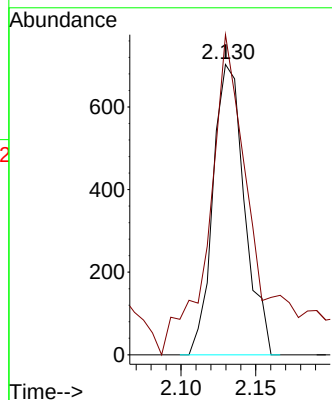
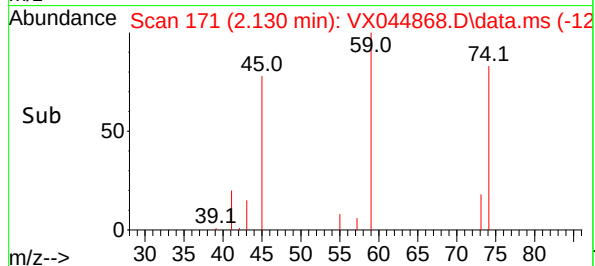
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



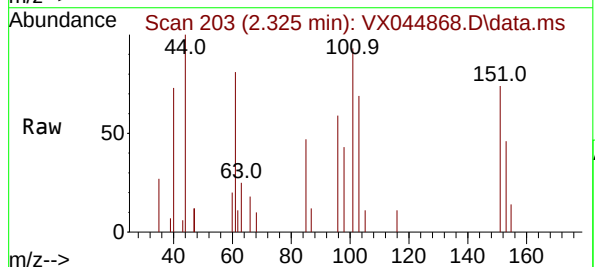
Tgt Ion: 74 Resp: 103
Ion Ratio Lower Upper
74 100
45 166.1 51.1 153.4

Manual Integrations
APPROVED

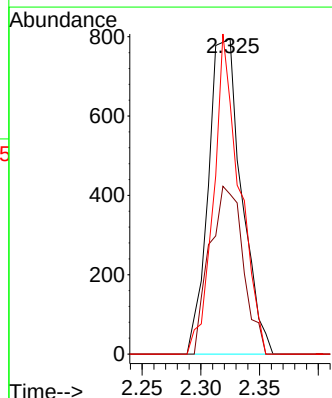
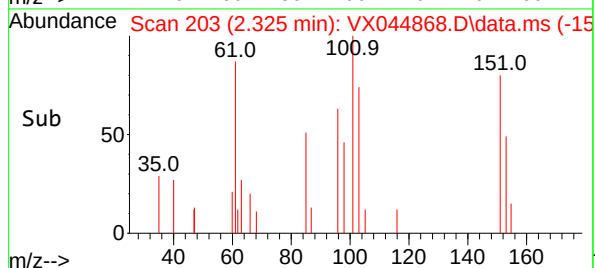
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

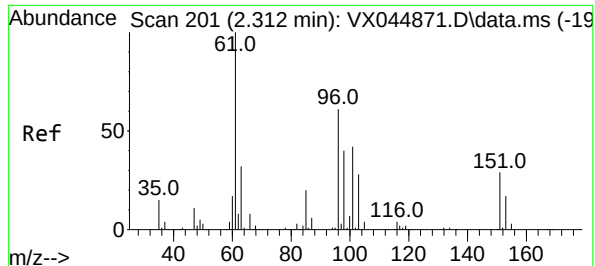


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.923 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25



Tgt Ion:101 Resp: 1564
Ion Ratio Lower Upper
101 100
85 53.6 35.7 53.5#
151 79.3 56.0 84.0





#12

1,1-Dichloroethene

Concen: 1.005 ug/l

RT: 2.307 min Scan# 20

Delta R.T. -0.006 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 96 Resp: 173

Ion Ratio Lower Upper

96 100

61 139.5 130.2 195.4

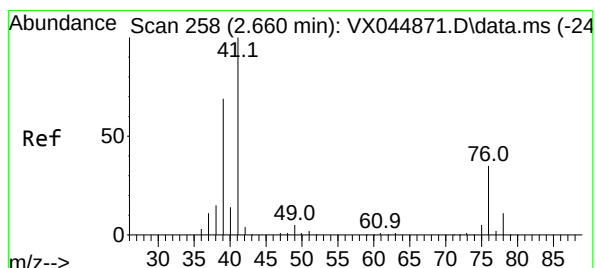
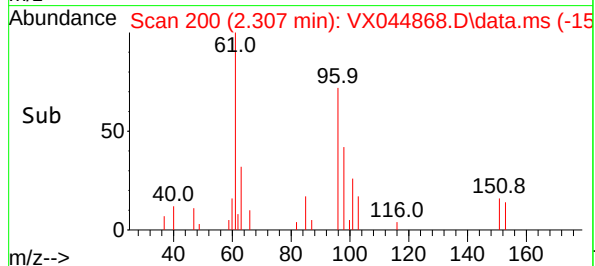
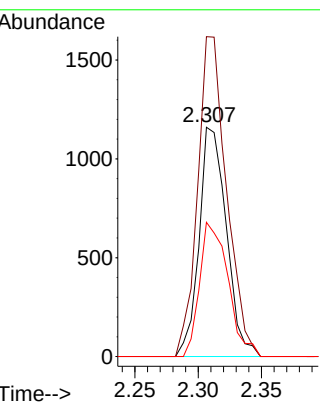
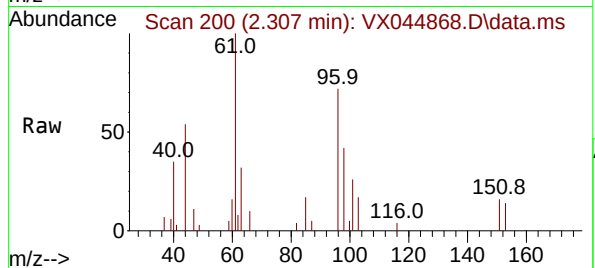
98 58.5 52.2 78.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#14

Allyl chloride

Concen: 1.013 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.006 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

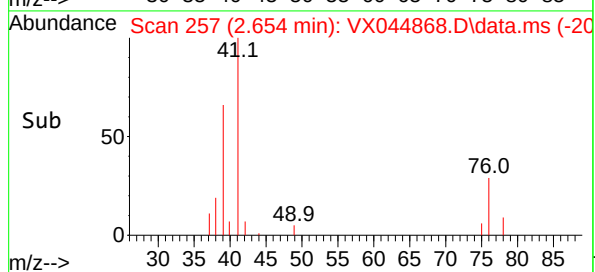
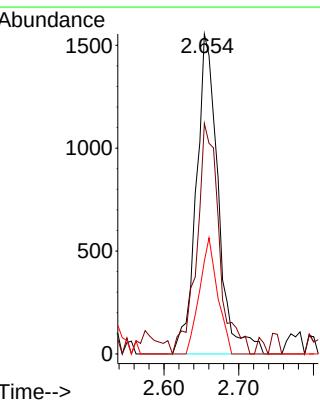
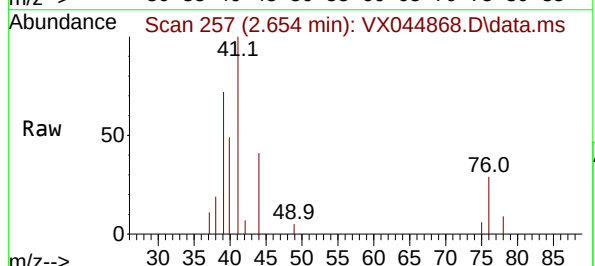
Tgt Ion: 41 Resp: 3164

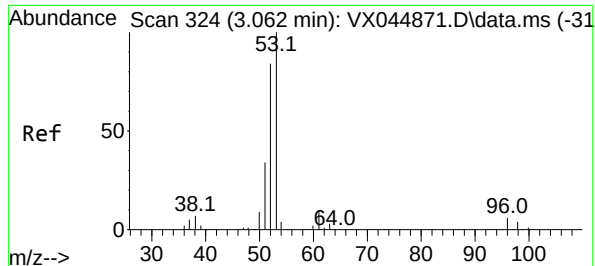
Ion Ratio Lower Upper

41 100

39 73.5 51.4 77.2

76 29.9 27.0 40.4





#15

Acrylonitrile

Concen: 4.655 ug/l

RT: 3.069 min Scan# 31

Delta R.T. 0.007 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

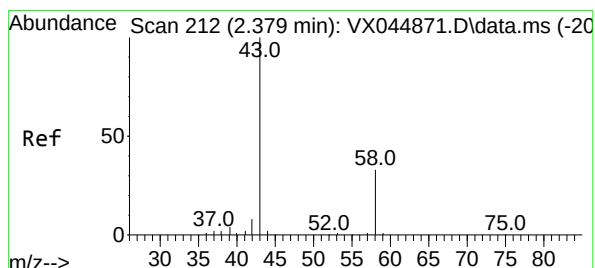
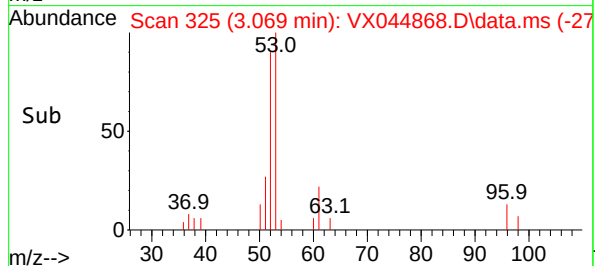
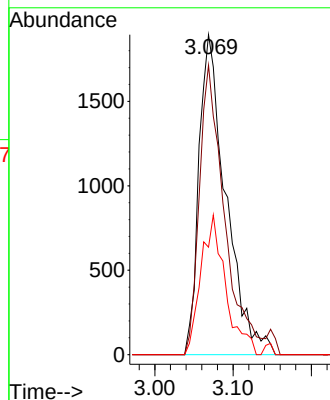
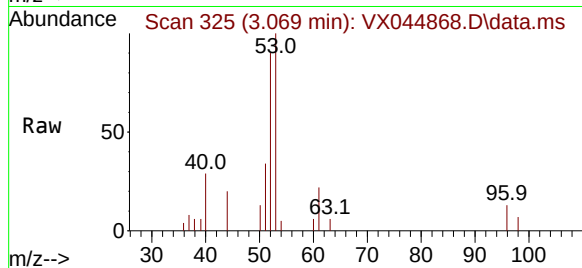
Tgt Ion: 53	Resp: 452
Ion Ratio	Lower Upper
53 100	
52 84.7	65.0 97.6
51 40.0	28.0 42.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#16

Acetone

Concen: 5.188 ug/l

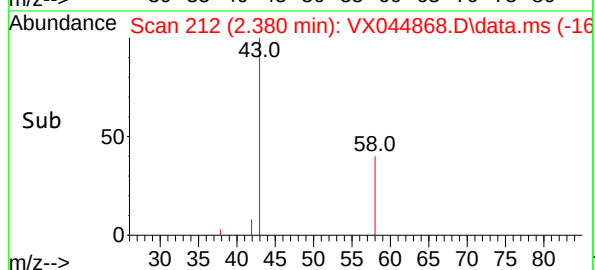
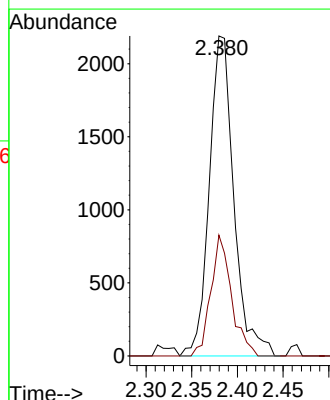
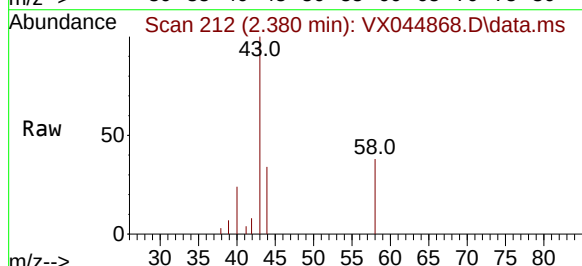
RT: 2.380 min Scan# 212

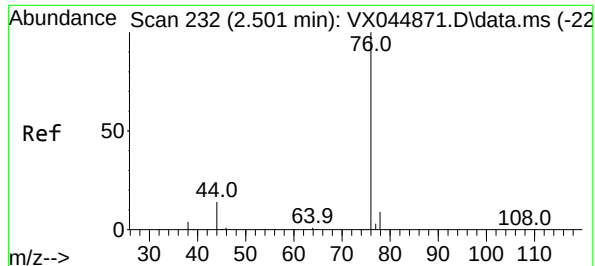
Delta R.T. 0.000 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Tgt Ion: 43	Resp: 4095
Ion Ratio	Lower Upper
43 100	
58 37.8	26.5 39.7





#17

Carbon Disulfide

Concen: 0.956 ug/l

RT: 2.502 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 76 Resp: 453

Ion Ratio Lower Upper

76 100

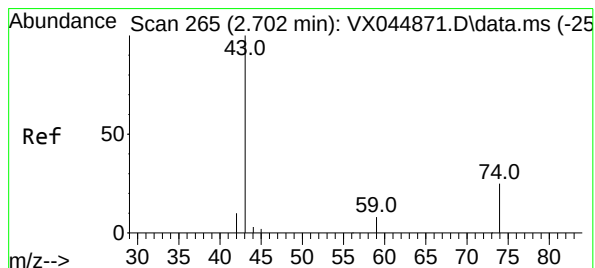
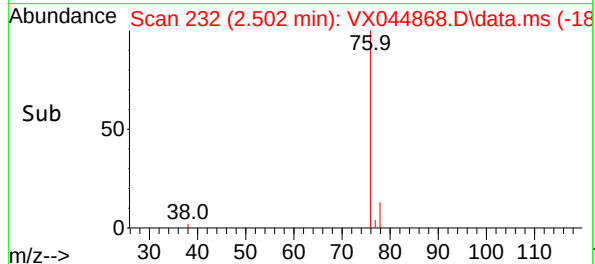
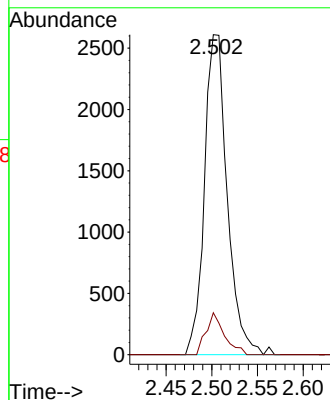
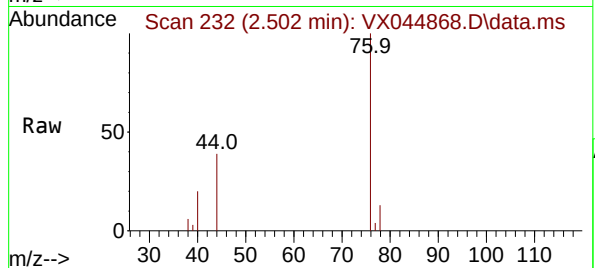
78 13.1 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#18

Methyl Acetate

Concen: 0.950 ug/l

RT: 2.697 min Scan# 264

Delta R.T. -0.006 min

Lab File: VX044868.D

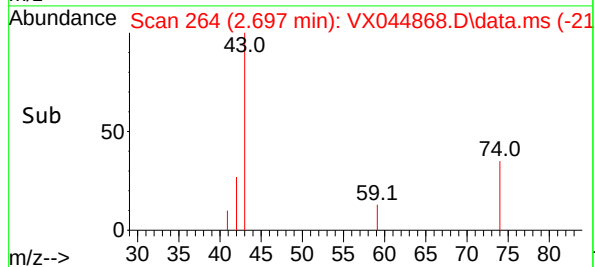
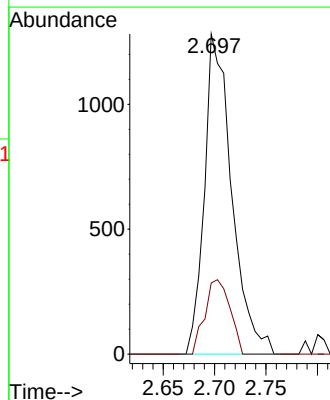
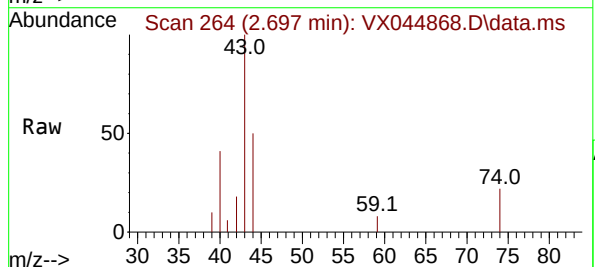
Acq: 10 Feb 2025 10:25

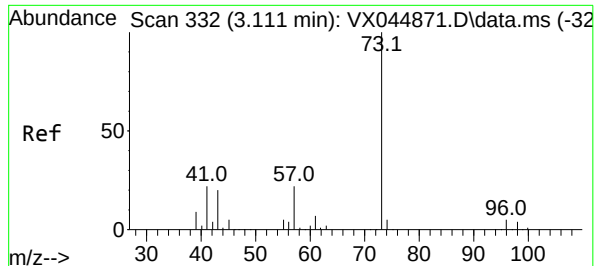
Tgt Ion: 43 Resp: 2367

Ion Ratio Lower Upper

43 100

74 21.3 18.9 28.3





#19

Methyl tert-butyl Ether

Concen: 0.946 ug/l

RT: 3.117 min Scan# 311

Delta R.T. 0.007 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 73 Resp: 5200

Ion Ratio Lower Upper

73 100

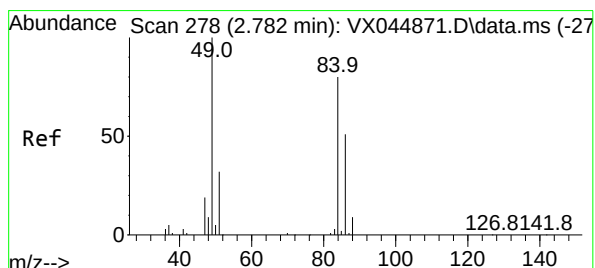
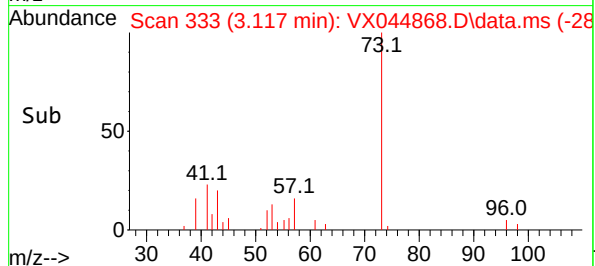
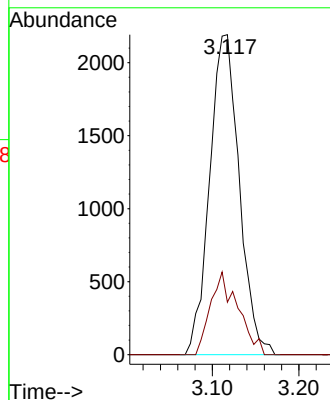
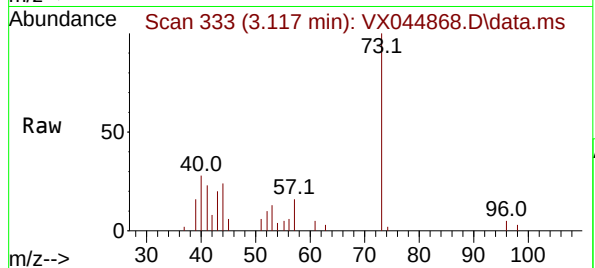
57 16.4 17.9 26.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#20

Methylene Chloride

Concen: 1.037 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Tgt Ion: 84 Resp: 2005

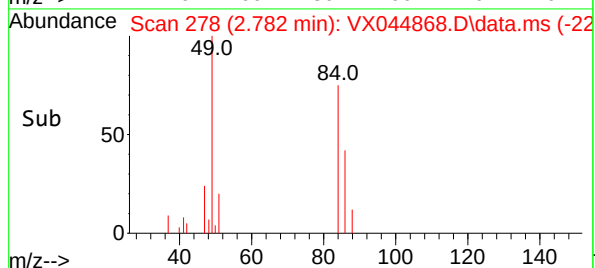
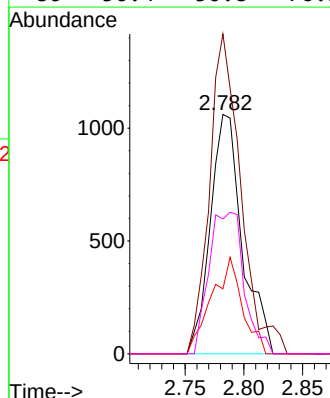
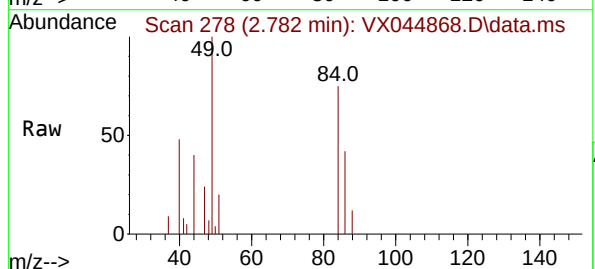
Ion Ratio Lower Upper

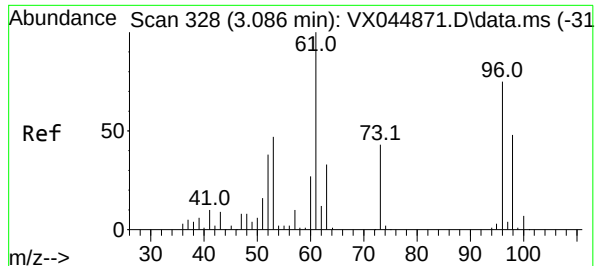
84 100

49 133.6 100.1 150.1

51 27.1 31.7 47.5

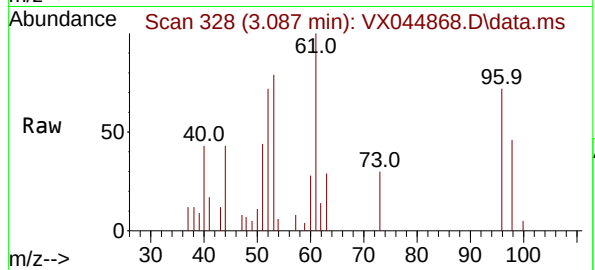
86 56.4 50.8 76.2





#21
trans-1,2-Dichloroethene
Concen: 0.959 ug/l
RT: 3.087 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

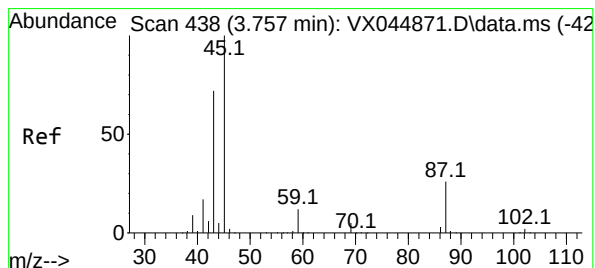
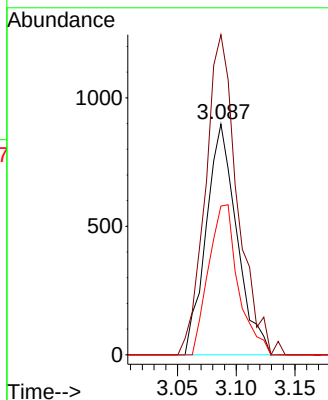
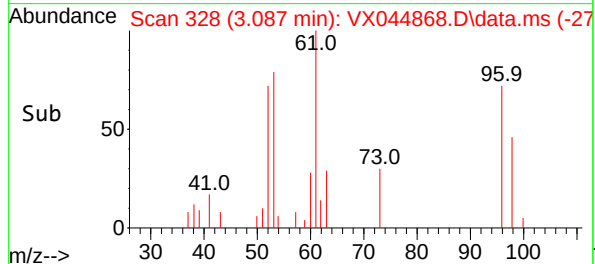
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion: 96 Resp: 163
Ion Ratio Lower Upper
96 100
61 138.8 106.0 159.0
98 64.5 50.6 76.0

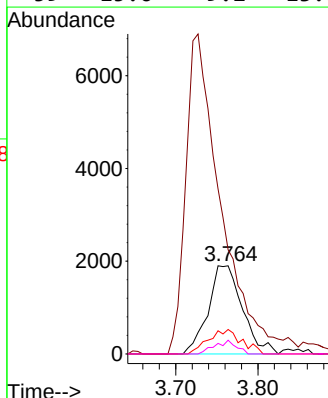
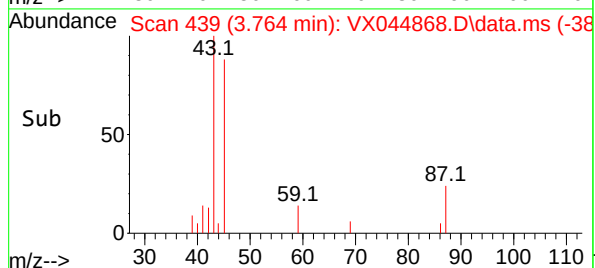
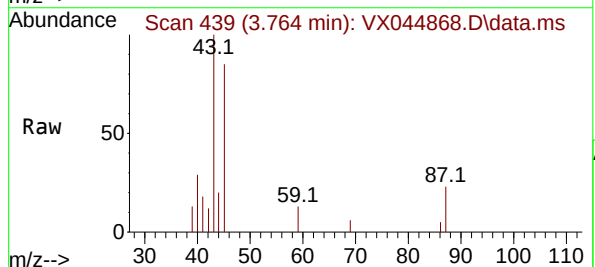
Manual Integrations
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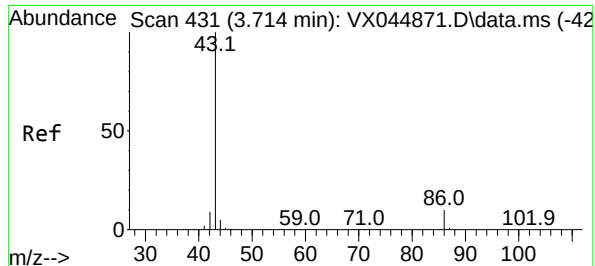
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#22
Diisopropyl ether
Concen: 0.930 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 45 Resp: 5496
Ion Ratio Lower Upper
45 100
43 101.2 58.0 87.0#
87 27.8 20.7 31.1
59 15.6 9.2 13.8#





#23

Vinyl Acetate

Concen: 4.288 ug/l

RT: 3.727 min Scan# 413

Delta R.T. 0.013 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 43 Resp: 2066

Ion Ratio Lower Upper

43

100

86

10.1

8.3

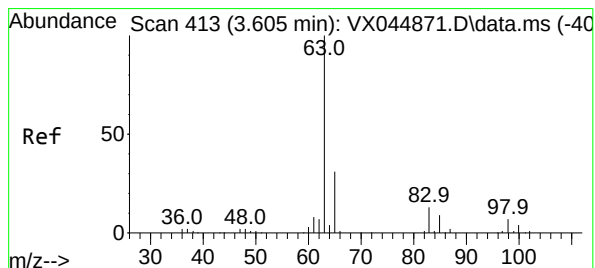
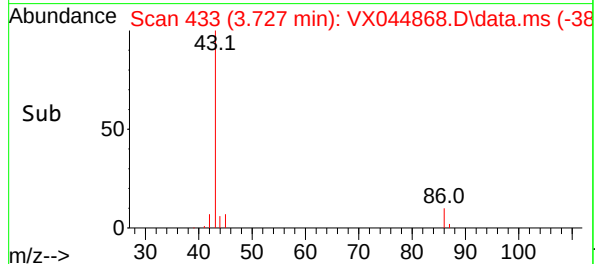
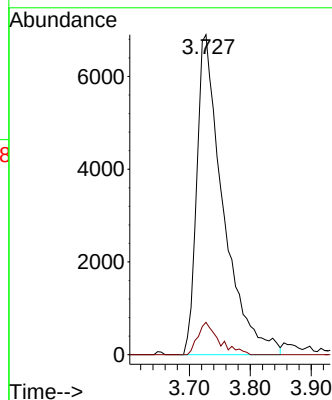
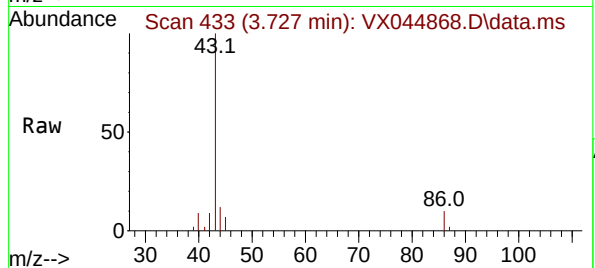
12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#24

1,1-Dichloroethane

Concen: 0.937 ug/l

RT: 3.605 min Scan# 413

Delta R.T. 0.000 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Tgt Ion: 63 Resp: 3099

Ion Ratio Lower Upper

63

100

98

5.7

3.3

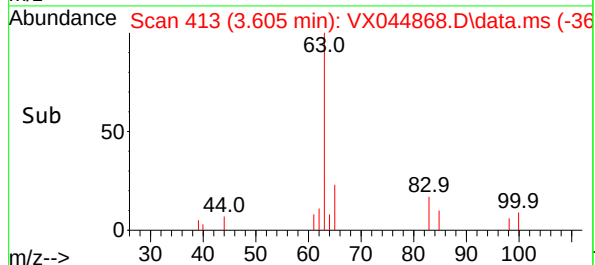
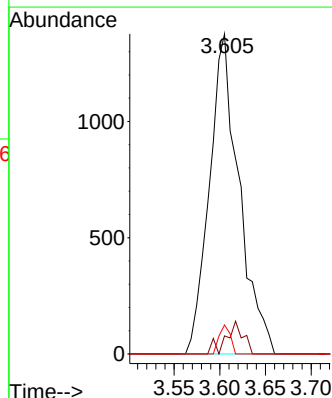
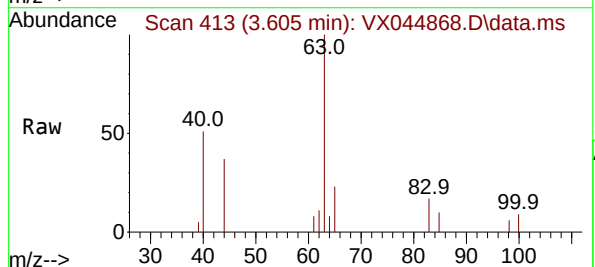
9.9

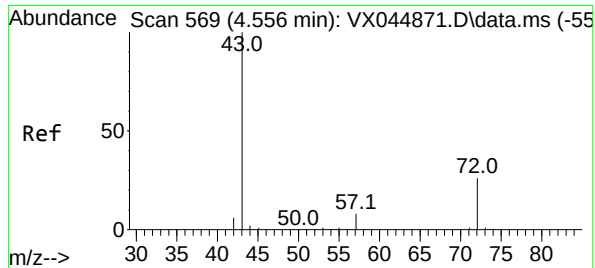
100

9.1

2.1

6.5





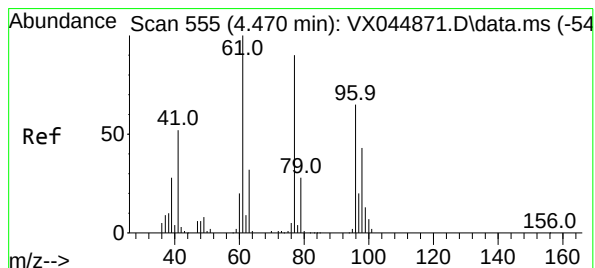
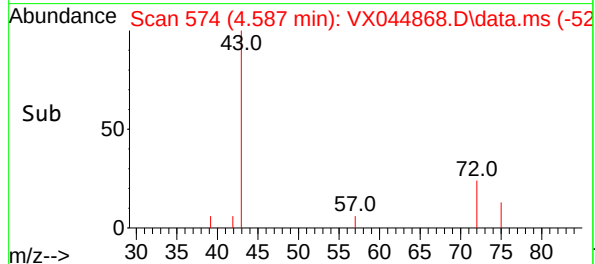
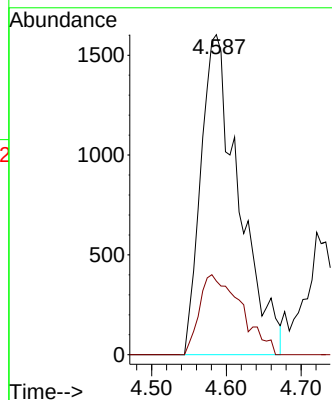
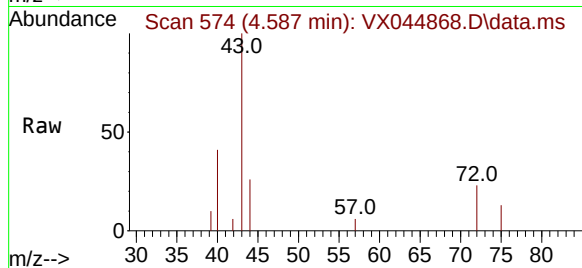
#25
2-Butanone
Concen: 4.416 ug/l
RT: 4.587 min Scan# 51
Delta R.T. 0.031 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

Tgt Ion: 43 Resp: 566
Ion Ratio Lower Upper
43 100
72 23.0 21.2 31.8

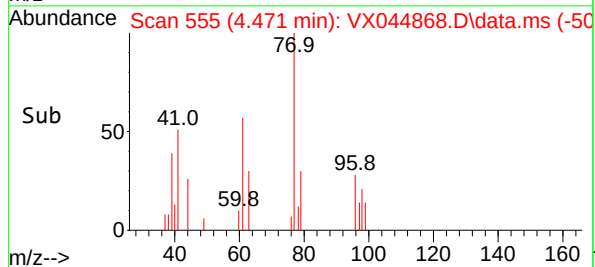
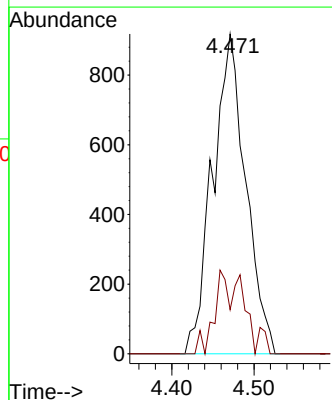
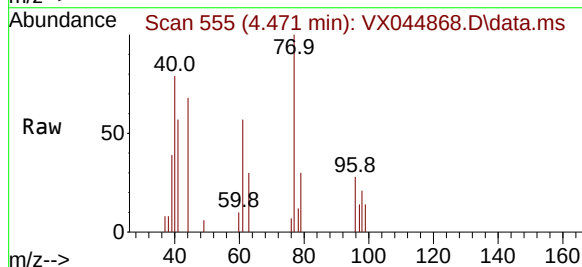
Manual Integrations
APPROVED

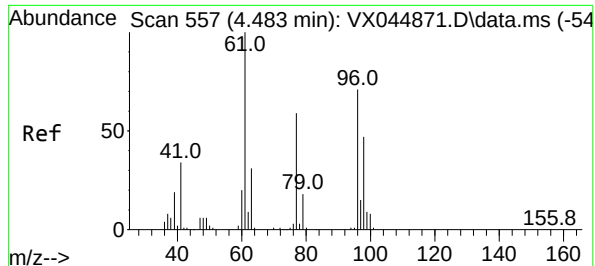
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#26
2,2-Dichloropropane
Concen: 0.978 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 77 Resp: 2566
Ion Ratio Lower Upper
77 100
97 11.8 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 0.893 ug/l

RT: 4.489 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

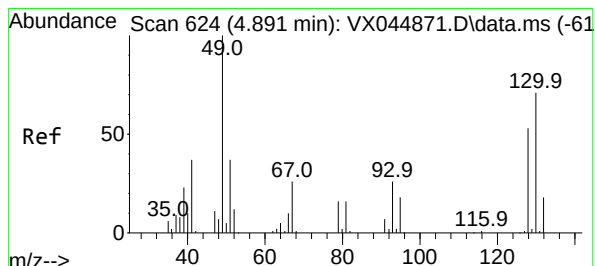
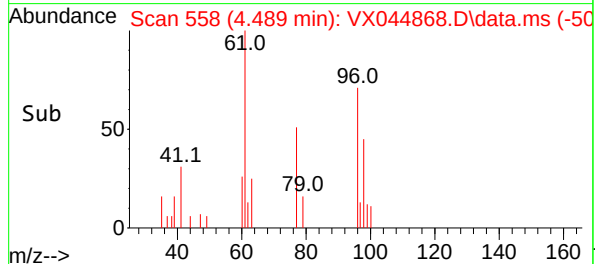
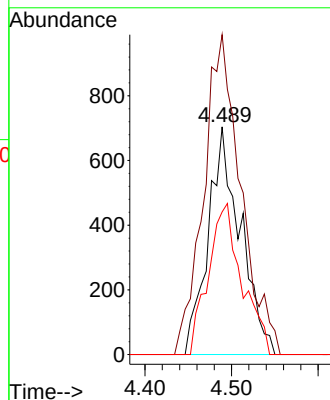
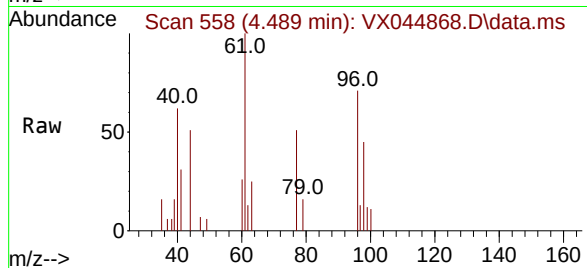
Tgt Ion:	96	Resp:	182
Ion	Ratio	Lower	Upper
96	100		
61	161.6	0.0	294.0
98	68.9	0.0	131.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#28

Bromochloromethane

Concen: 1.071 ug/l

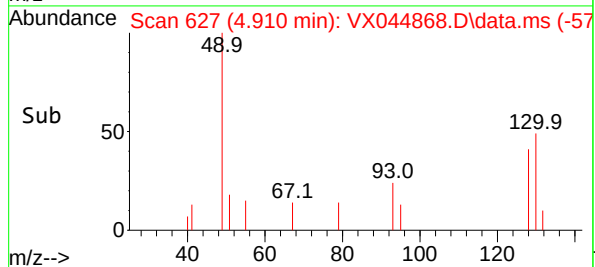
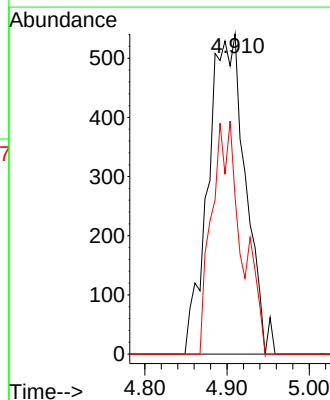
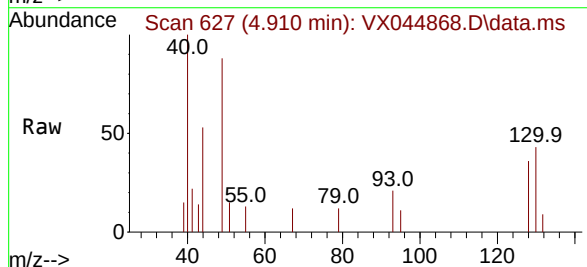
RT: 4.910 min Scan# 627

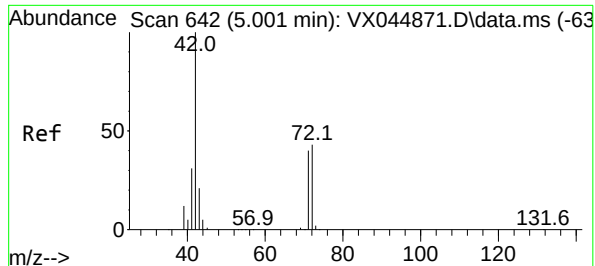
Delta R.T. 0.019 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Tgt Ion:	49	Resp:	1702
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	49.6	56.7	85.1





#29

Tetrahydrofuran

Concen: 4.716 ug/l

RT: 5.026 min Scan# 64

Delta R.T. 0.025 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

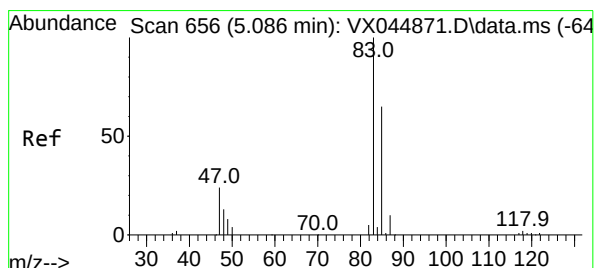
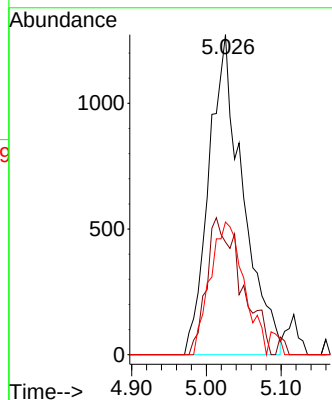
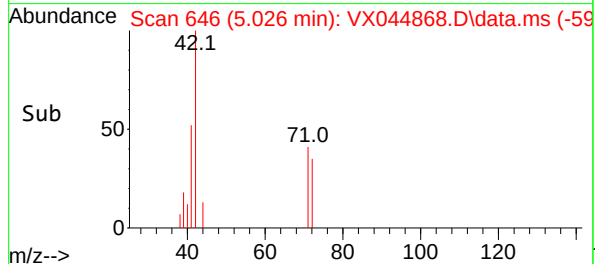
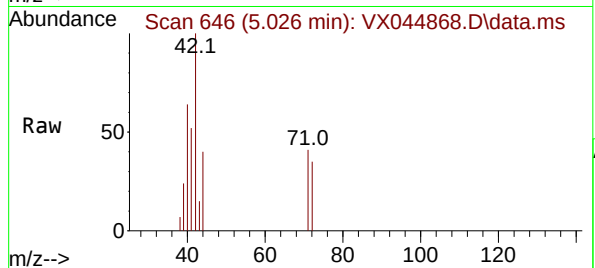
Tgt Ion:	42	Resp:	4014
Ion	Ratio	Lower	Upper
42	100		
72	43.8	35.0	52.4
71	41.3	32.6	48.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#30

Chloroform

Concen: 0.976 ug/l

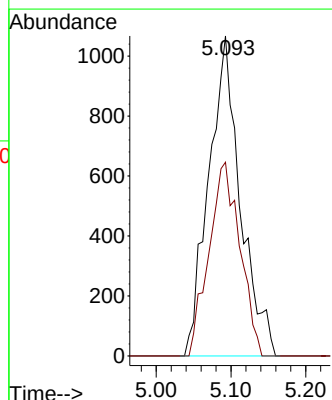
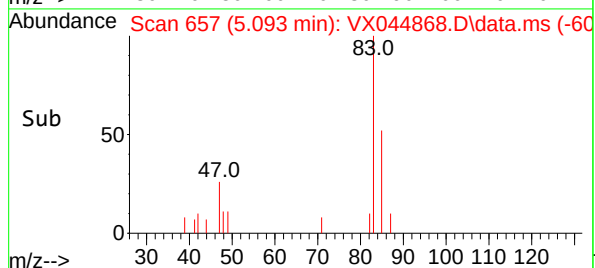
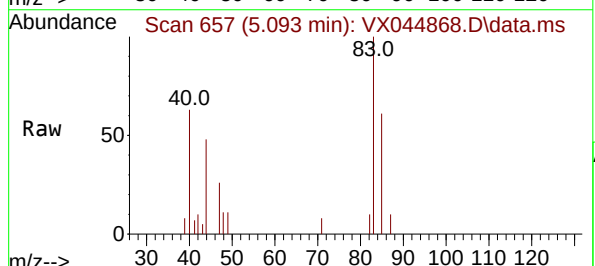
RT: 5.093 min Scan# 657

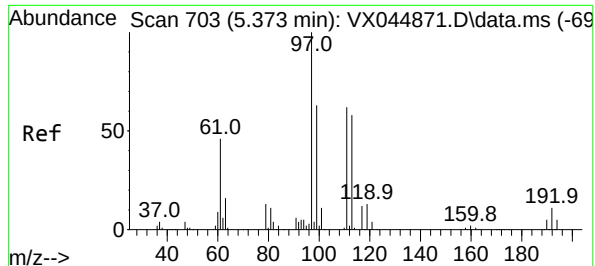
Delta R.T. 0.006 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Tgt Ion:	83	Resp:	3132
Ion	Ratio	Lower	Upper
83	100		
85	60.5	52.1	78.1





#32

1,1,1-Trichloroethane

Concen: 1.000 ug/l

RT: 5.379 min Scan# 703

Delta R.T. 0.006 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 272

Ion Ratio Lower Upper

97 100

99 0.0 51.0 76.6

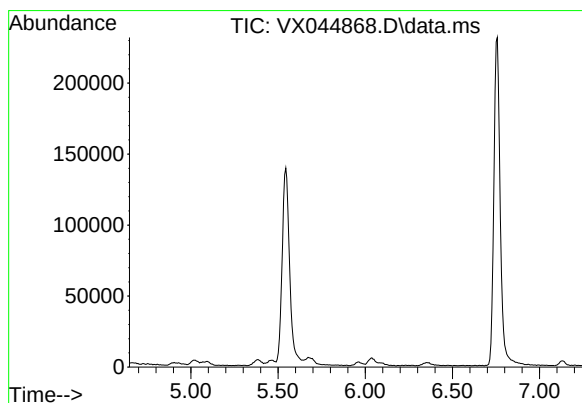
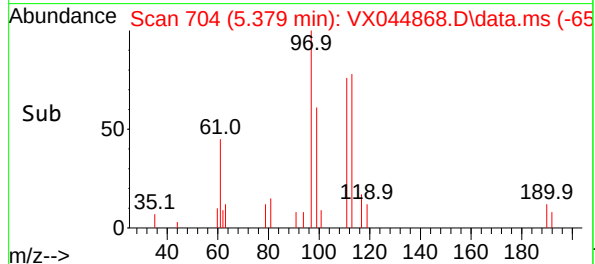
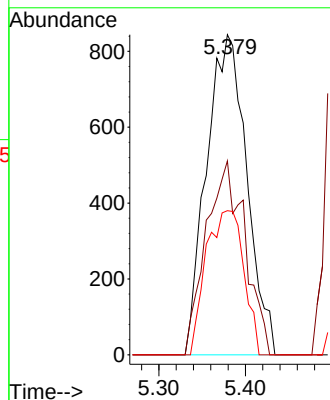
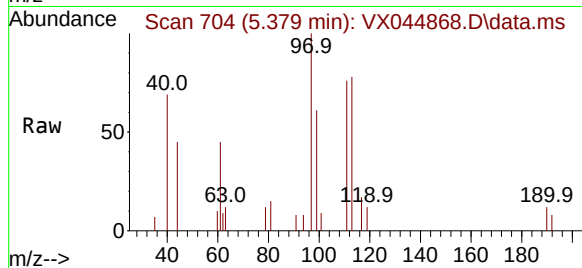
61 42.2 36.6 55.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 5.95 min

Lab File: VX044868.D

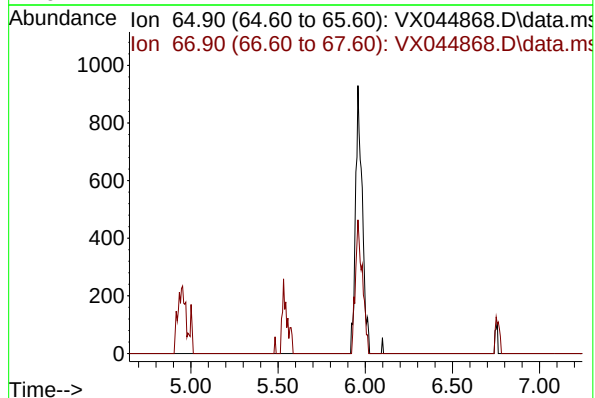
Acq: 10 Feb 2025 10:25

Tgt Ion: 65

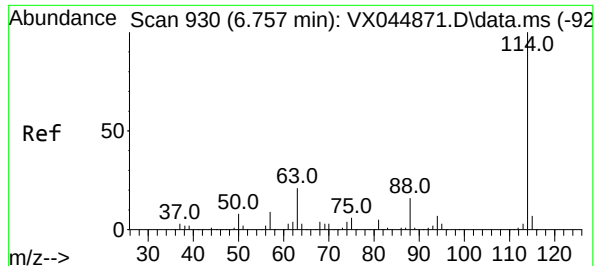
Sig Exp Ratio

65 100

67 54.1



Ion 66.90 (66.60 to 67.60): VX044868.D\data.ms



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion:114 Resp: 254149

Ion Ratio Lower Upper

114 100

63 20.5 0.0 42.4

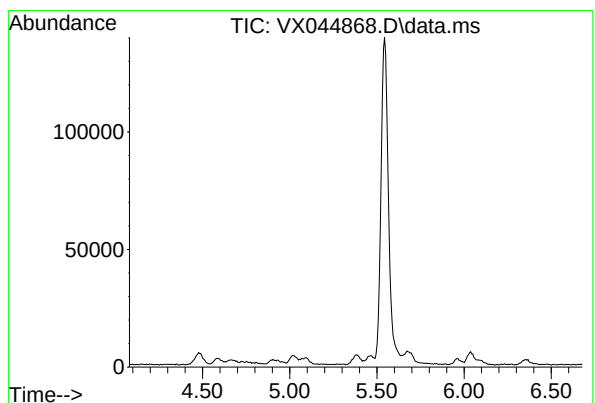
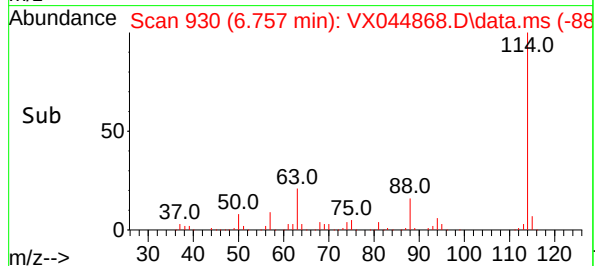
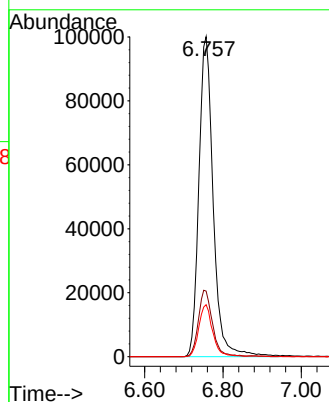
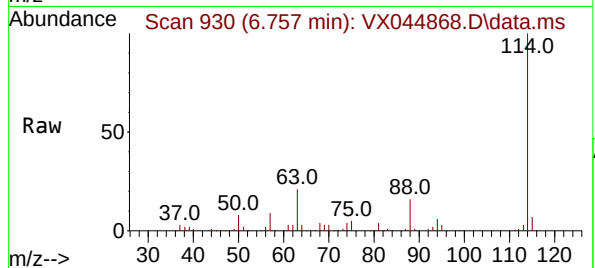
88 16.3 0.0 31.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 5.38 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

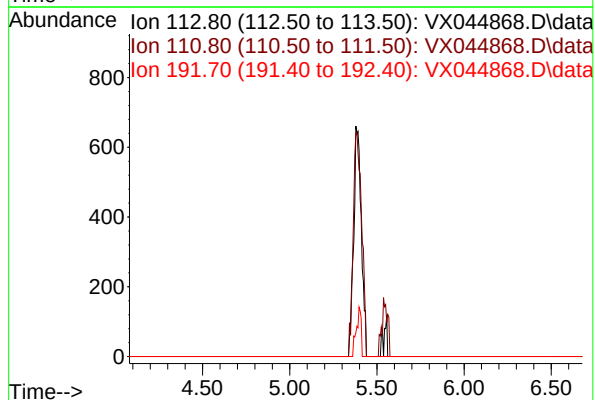
Tgt Ion: 113

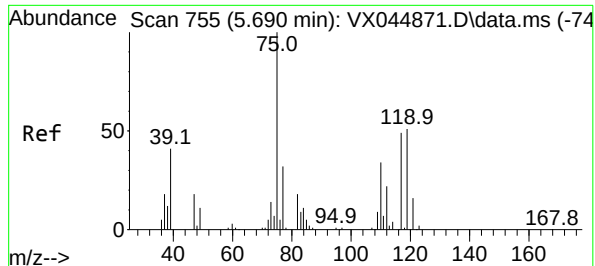
Sig Exp Ratio

113 100

111 104.4

192 18.0





#36

1,1-Dichloropropene

Concen: 1.006 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 75 Resp: 2399

Ion Ratio Lower Upper

75 100

110 32.1 17.2 51.6

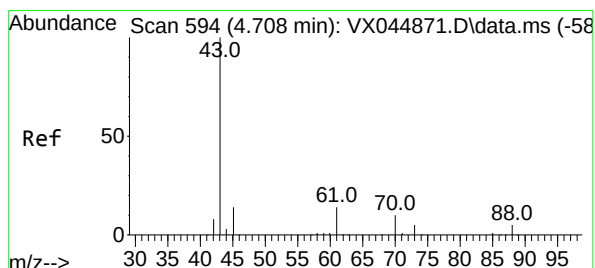
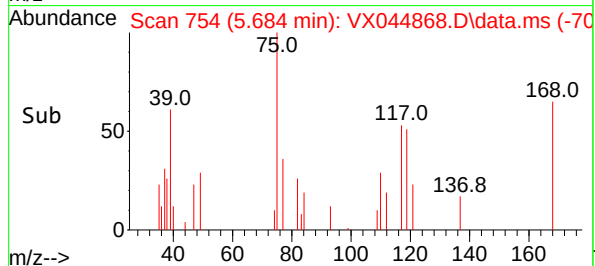
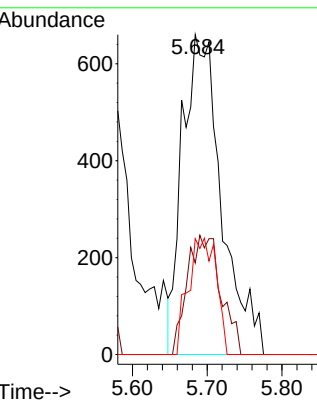
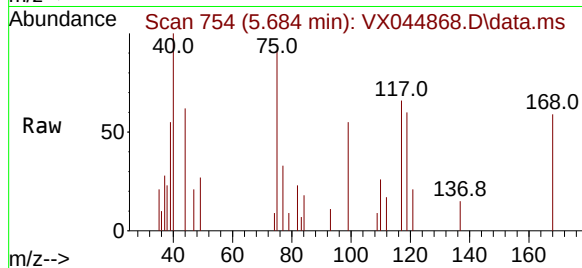
77 26.3 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#37

Ethyl Acetate

Concen: 0.915 ug/l m

RT: 4.721 min Scan# 596

Delta R.T. 0.013 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

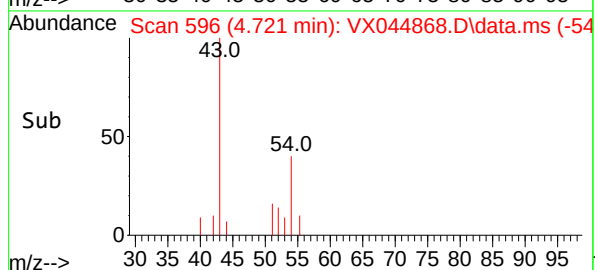
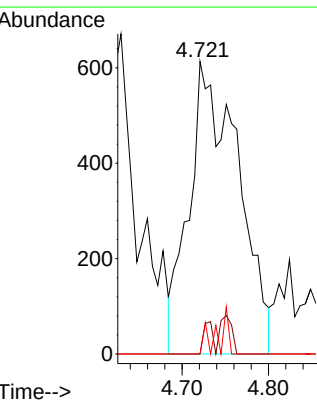
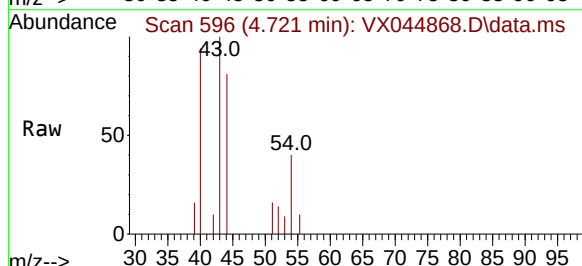
Tgt Ion: 43 Resp: 2426

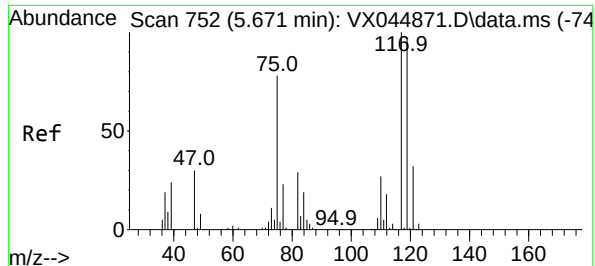
Ion Ratio Lower Upper

43 100

61 0.0 11.0 16.4#

70 1.0 8.2 12.2#





#38

Carbon Tetrachloride

Concen: 0.994 ug/l

RT: 5.666 min Scan# 751

Delta R.T. -0.006 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:117 Resp: 232

Ion Ratio Lower Upper

117 100

119 67.5 77.5 116.3

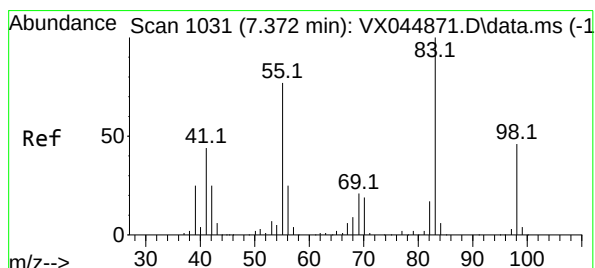
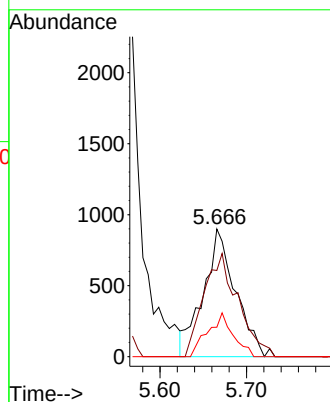
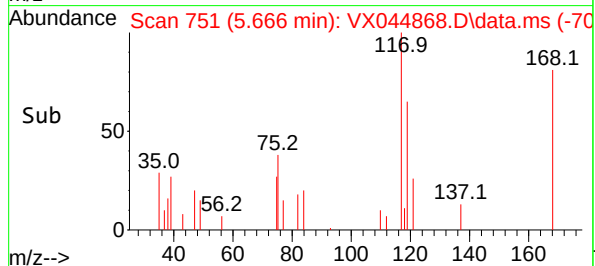
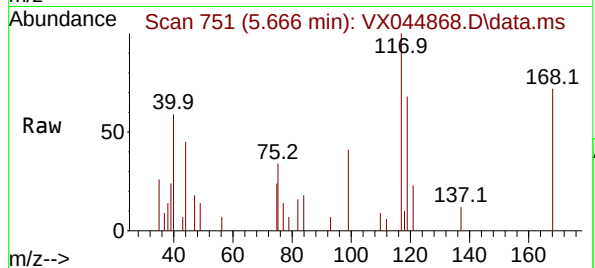
121 23.0 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#39

Methylcyclohexane

Concen: 0.840 ug/l

RT: 7.379 min Scan# 1032

Delta R.T. 0.006 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

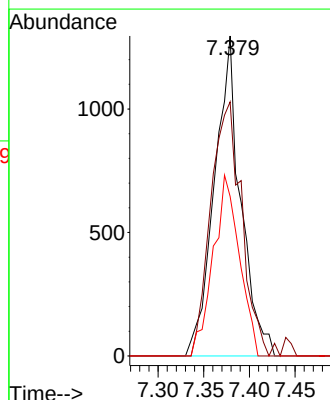
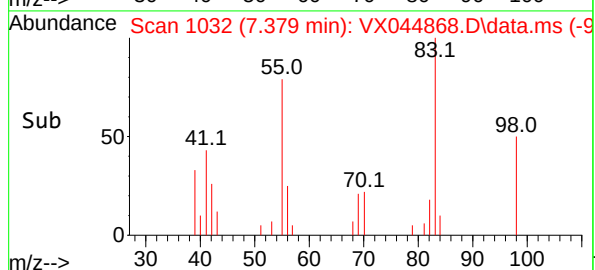
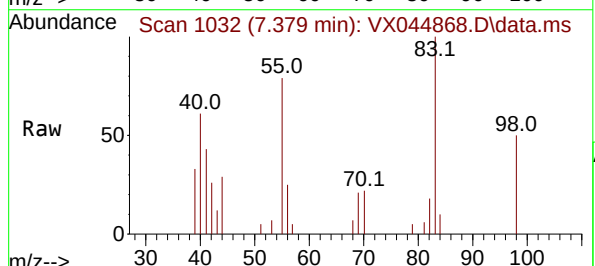
Tgt Ion: 83 Resp: 2589

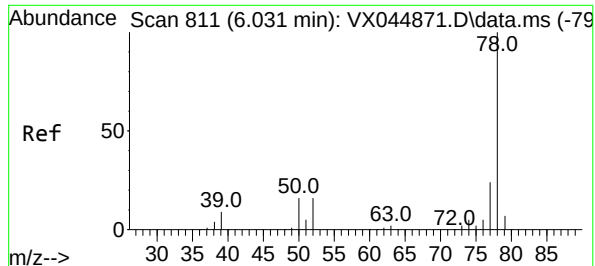
Ion Ratio Lower Upper

83 100

55 79.4 61.3 91.9

98 49.8 37.0 55.6





#40

Benzene

Concen: 0.935 ug/l

RT: 6.038 min Scan# 811

Delta R.T. 0.006 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 78 Resp: 696

Ion Ratio Lower Upper

78 100

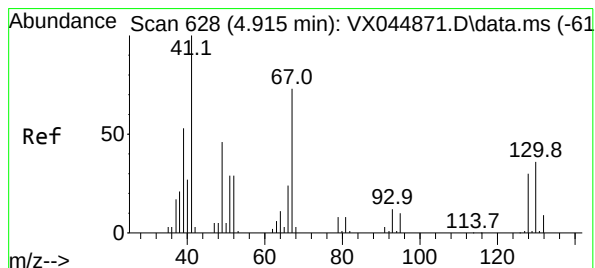
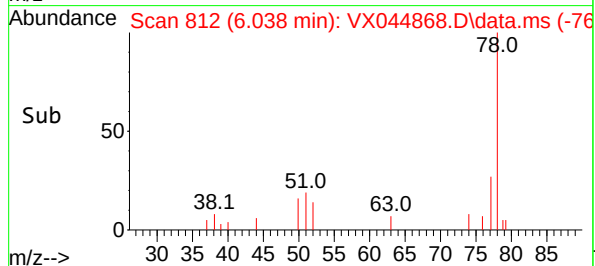
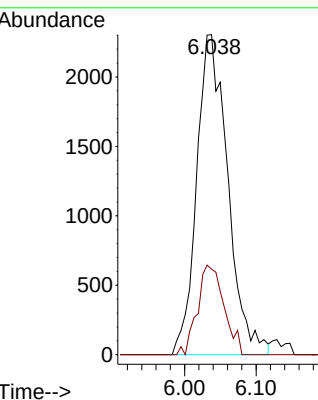
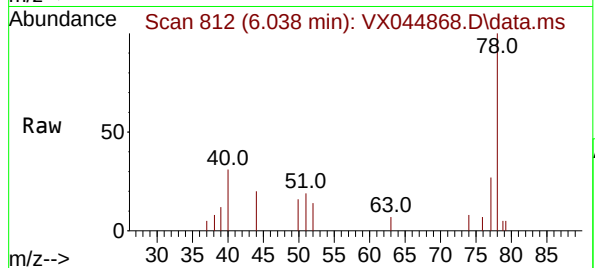
77 26.8 19.0 28.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#41

Methacrylonitrile

Concen: 0.849 ug/l m

RT: 4.958 min Scan# 635

Delta R.T. 0.043 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Tgt Ion: 41 Resp: 1205

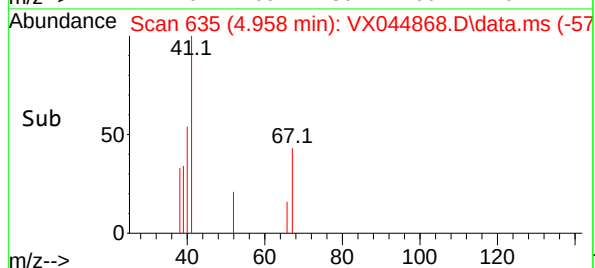
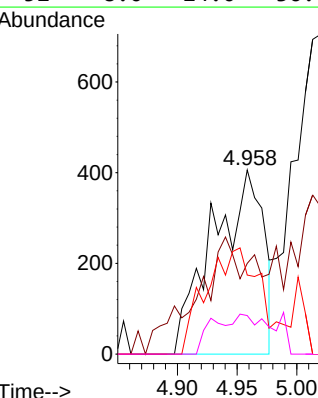
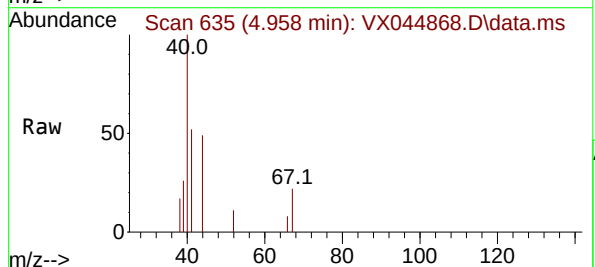
Ion Ratio Lower Upper

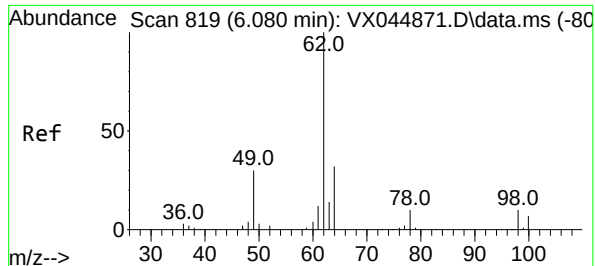
41 100

39 0.0 43.1 64.7#

67 0.0 57.0 85.6#

52 8.0 24.0 36.0#





#42

1,2-Dichloroethane

Concen: 0.894 ug/l

RT: 6.099 min Scan# 819

Delta R.T. 0.019 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Tgt Ion: 62 Resp: 2120

Ion Ratio Lower Upper

62 100

98 3.7 0.0 19.4

Instrument :

MSVOA_X

ClientSampleId :

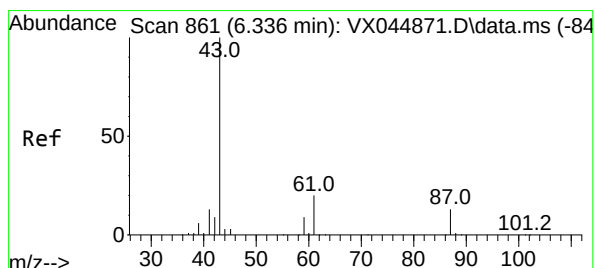
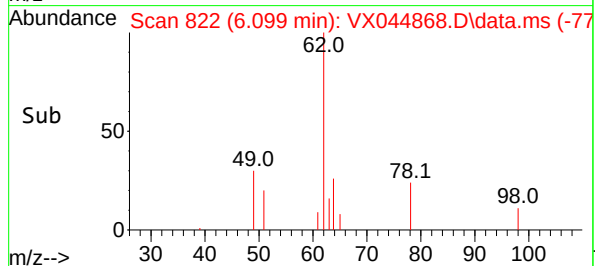
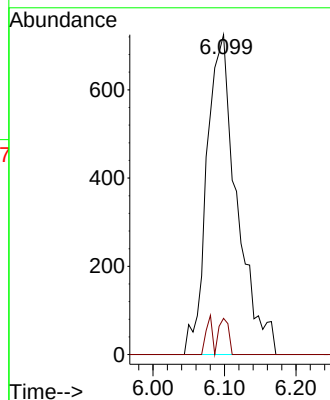
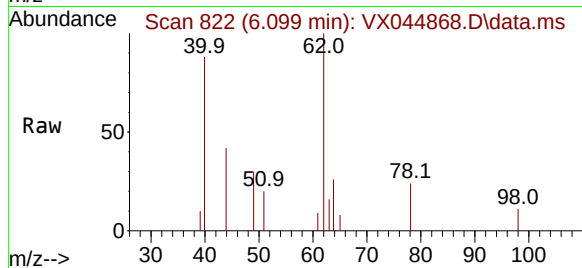
VSTDIC001

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#43

Isopropyl Acetate

Concen: 0.897 ug/l

RT: 6.355 min Scan# 864

Delta R.T. 0.019 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

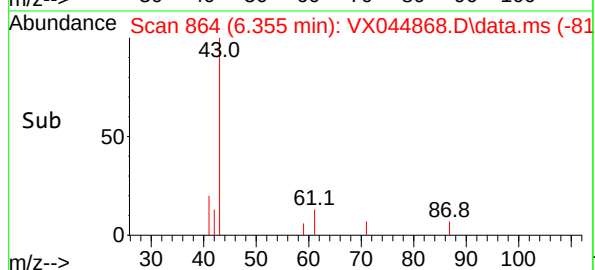
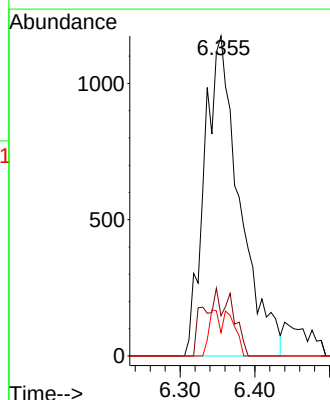
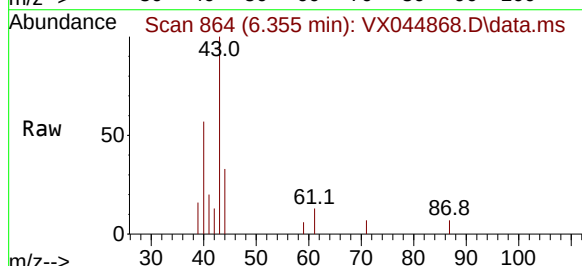
Tgt Ion: 43 Resp: 3839

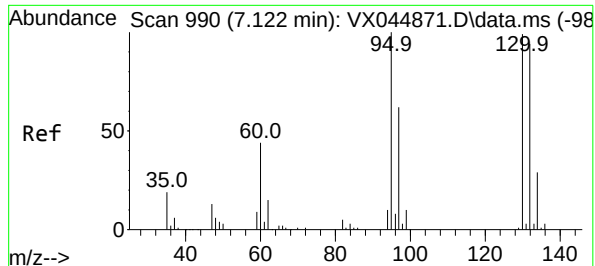
Ion Ratio Lower Upper

43 100

61 16.9 15.8 23.8

87 4.6 10.0 15.0#





#44

Trichloroethene

Concen: 0.874 ug/l

RT: 7.135 min Scan# 991

Delta R.T. 0.013 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:130 Resp: 148

Ion Ratio Lower Upper

130 100

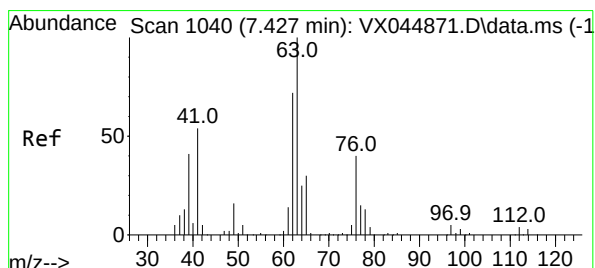
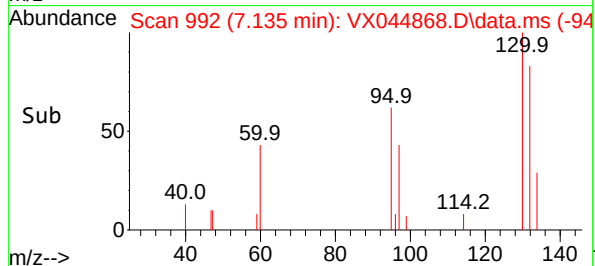
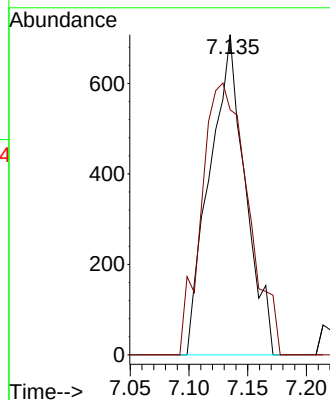
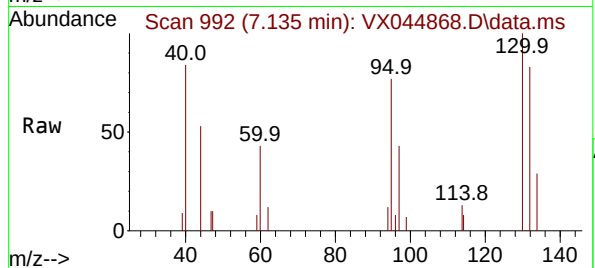
95 76.6 0.0 202.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#45

1,2-Dichloropropane

Concen: 0.943 ug/l

RT: 7.440 min Scan# 1042

Delta R.T. 0.013 min

Lab File: VX044868.D

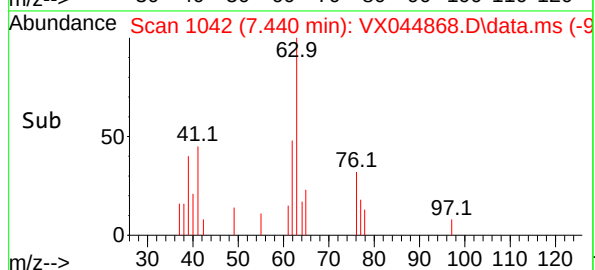
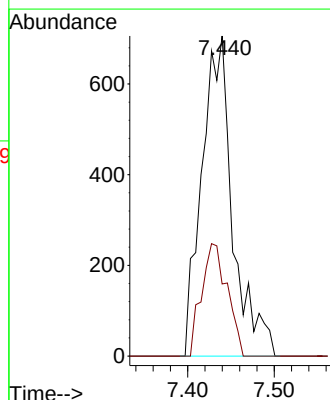
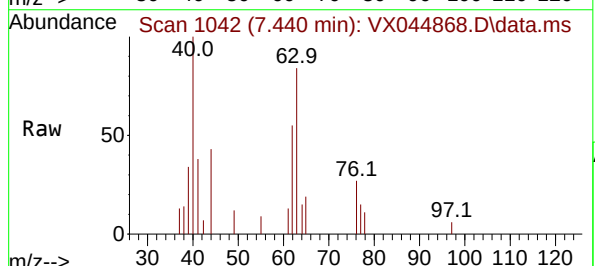
Acq: 10 Feb 2025 10:25

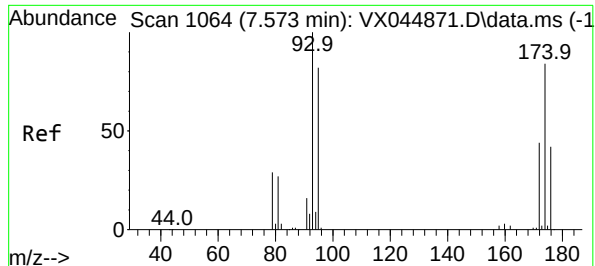
Tgt Ion: 63 Resp: 1746

Ion Ratio Lower Upper

63 100

65 22.5 24.2 36.4#





#46

Dibromomethane

Concen: 0.936 ug/l

RT: 7.592 min Scan# 1106

Delta R.T. 0.019 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 93 Resp: 120

Ion Ratio Lower Upper

93 100

95 84.3 66.2 99.4

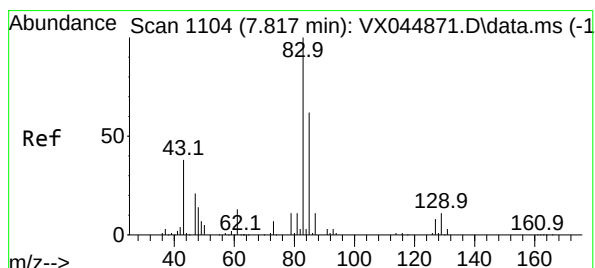
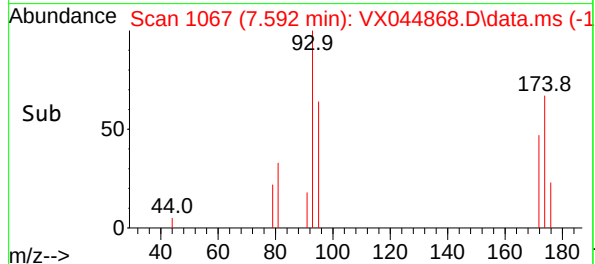
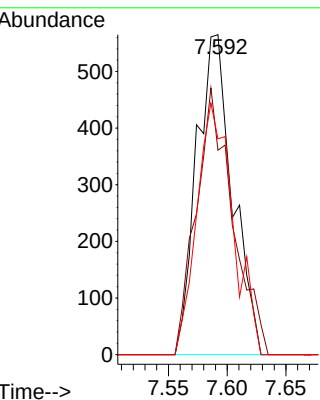
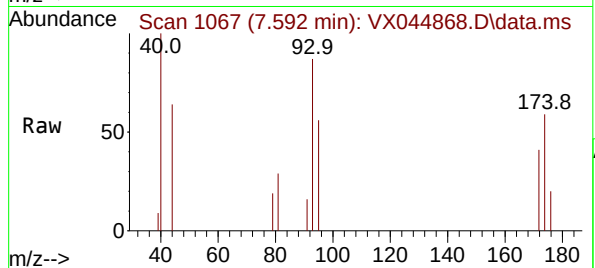
174 79.3 69.9 104.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#47

Bromodichloromethane

Concen: 0.875 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

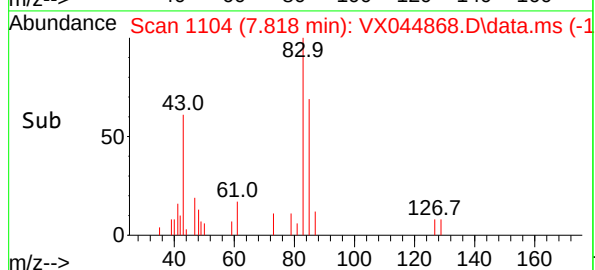
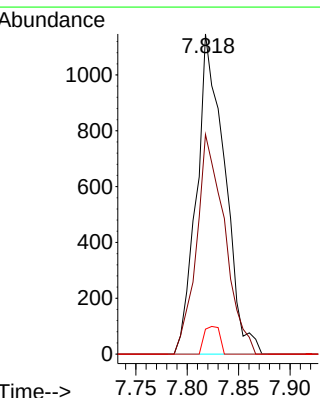
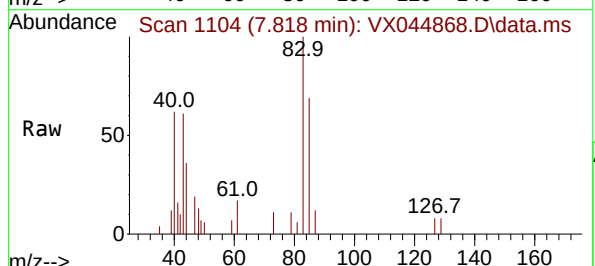
Tgt Ion: 83 Resp: 2176

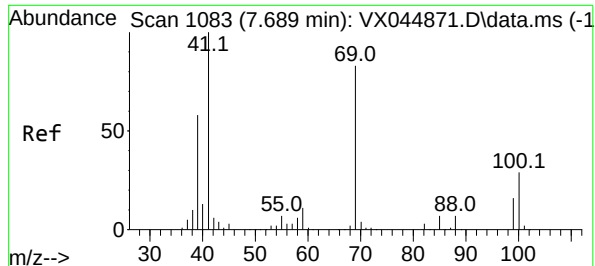
Ion Ratio Lower Upper

83 100

85 68.6 50.0 75.0

127 7.8 6.4 9.6





#48

Methyl methacrylate

Concen: 0.830 ug/l

RT: 7.720 min Scan# 1088

Delta R.T. 0.031 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

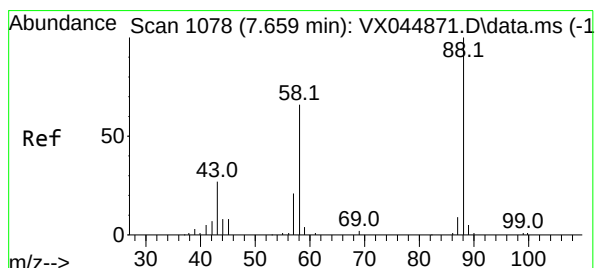
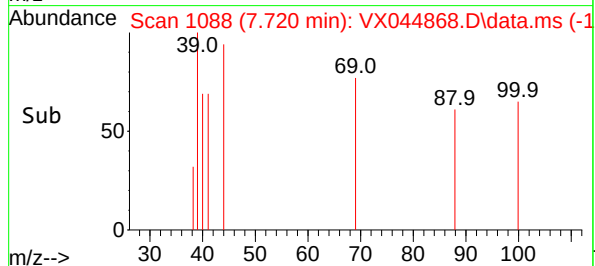
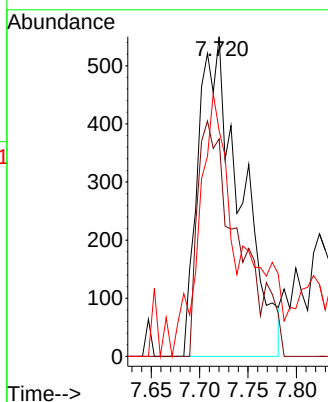
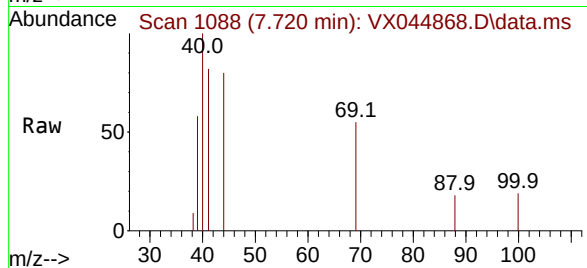
Tgt Ion: 41	Resp: 167
Ion Ratio	Lower Upper
41 100	
69 71.8	65.8 98.8
39 55.9	46.4 69.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#49

1,4-Dioxane

Concen: 20.015 ug/l

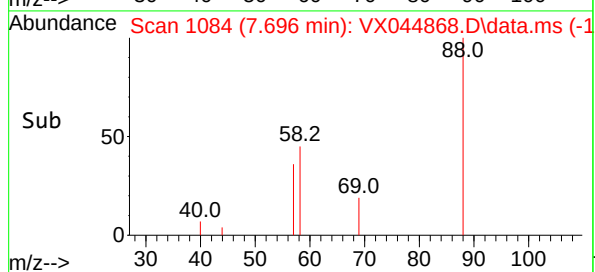
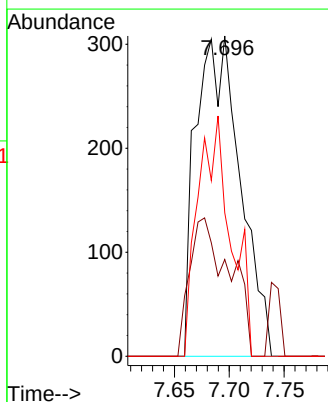
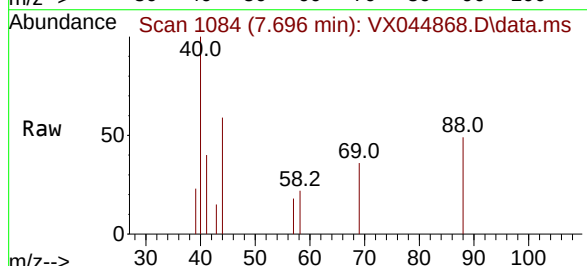
RT: 7.696 min Scan# 1084

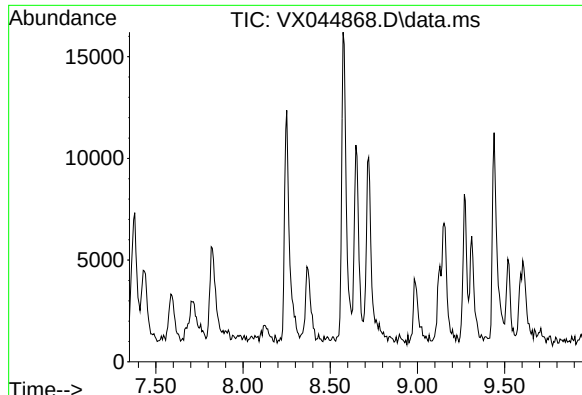
Delta R.T. 0.037 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Tgt Ion: 88	Resp: 867
Ion Ratio	Lower Upper
88 100	
43 38.9	26.6 39.8
58 55.5	55.9 83.9





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

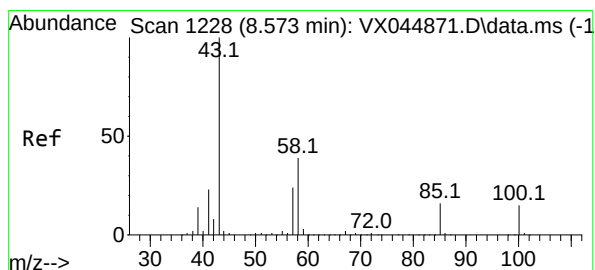
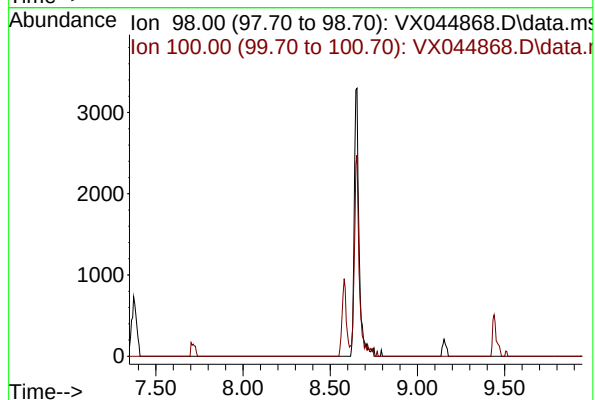
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 98
Sig Exp Ratio
98 100
100 65.9

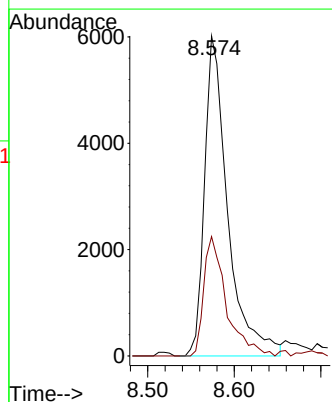
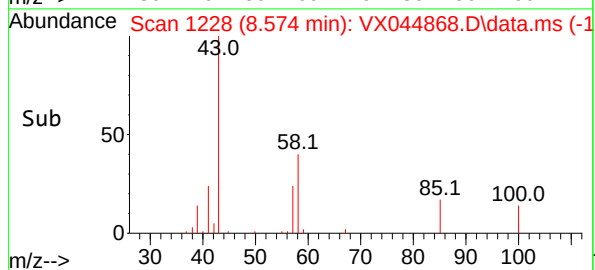
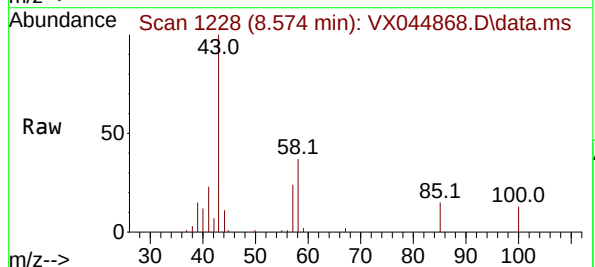
Manual Integrations
APPROVED

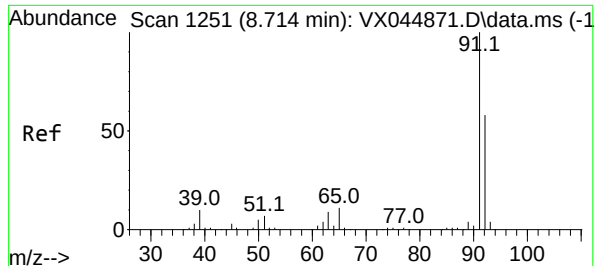
Reviewed By : John Carlone 02/11/2025
Supervised By : Mahesh Dadoda 02/11/2025



#51
4-Methyl-2-Pentanone
Concen: 4.290 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 43 Resp: 11169
Ion Ratio Lower Upper
43 100
58 36.3 30.8 46.2





#52

Toluene

Concen: 0.889 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. 0.000 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 92 Resp: 394

Ion Ratio Lower Upper

92 100

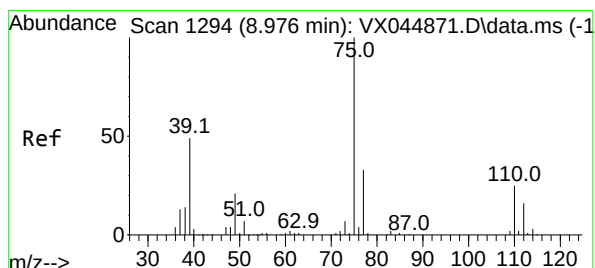
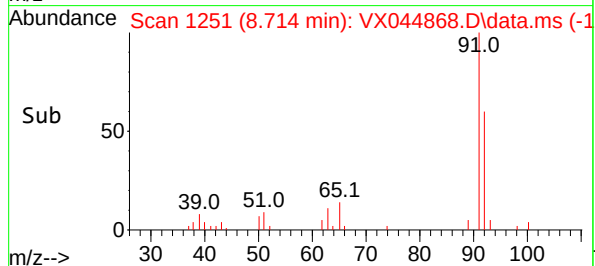
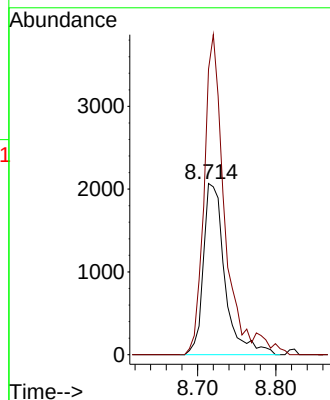
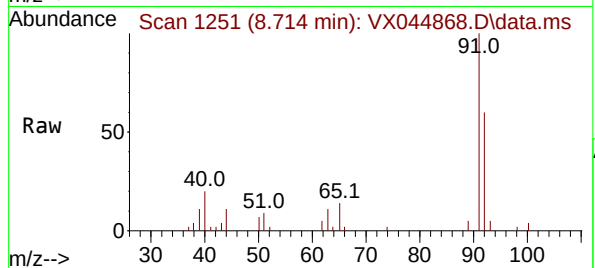
91 171.6 137.4 206.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#53

t-1,3-Dichloropropene

Concen: 0.842 ug/l

RT: 8.994 min Scan# 1297

Delta R.T. 0.019 min

Lab File: VX044868.D

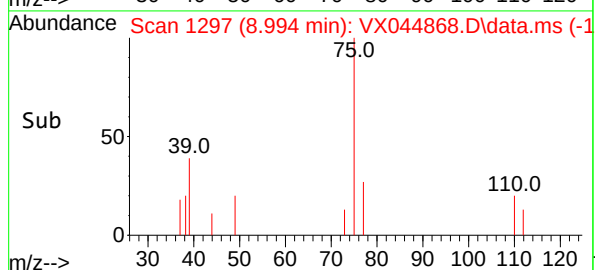
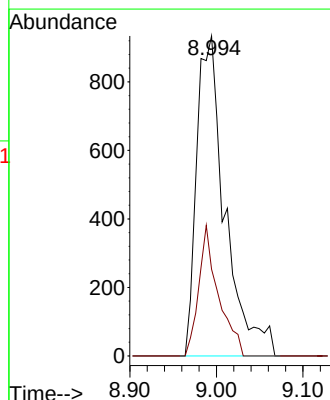
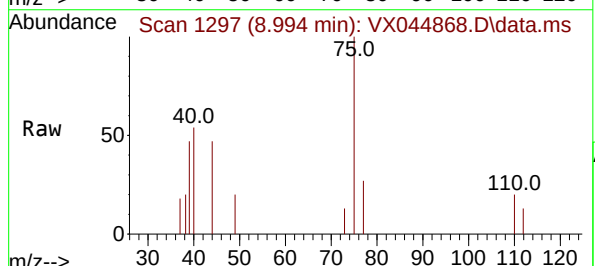
Acq: 10 Feb 2025 10:25

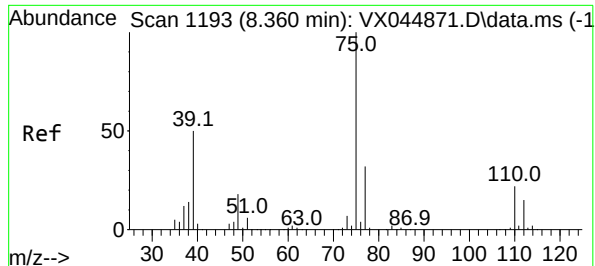
Tgt Ion: 75 Resp: 2119

Ion Ratio Lower Upper

75 100

77 27.1 26.0 39.0





#54

cis-1,3-Dichloropropene

Concen: 0.820 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.006 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

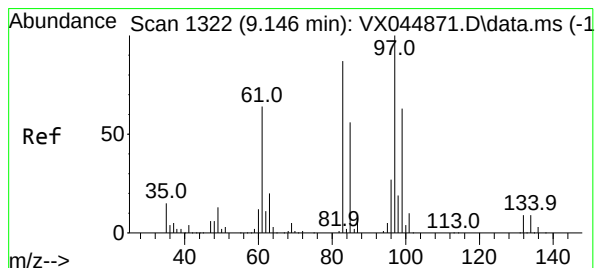
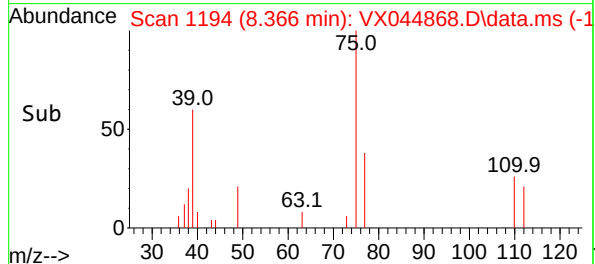
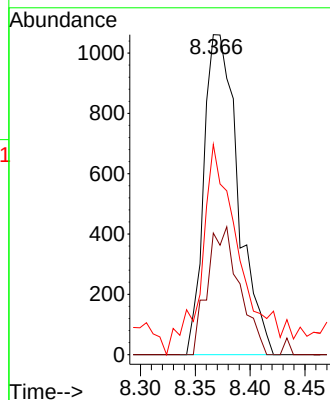
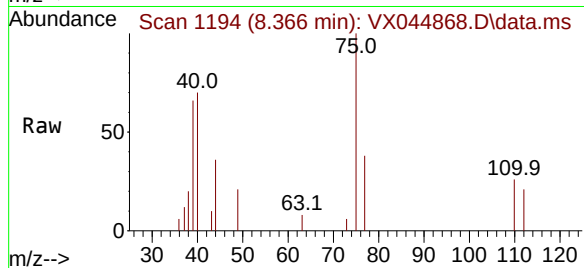
Tgt Ion:	75	Resp:	2300
Ion	Ratio	Lower	Upper
75	100		
77	38.0	25.3	37.9
39	60.3	40.0	60.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#55

1,1,2-Trichloroethane

Concen: 0.914 ug/l

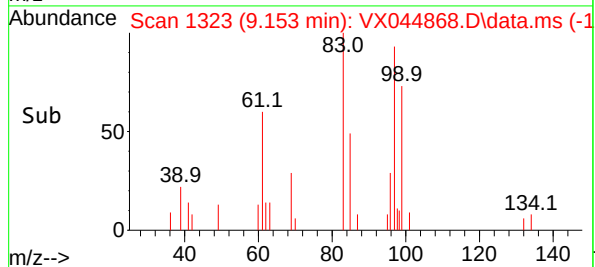
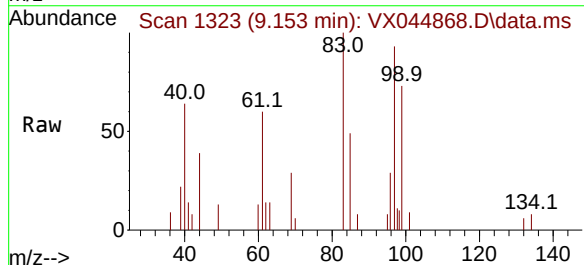
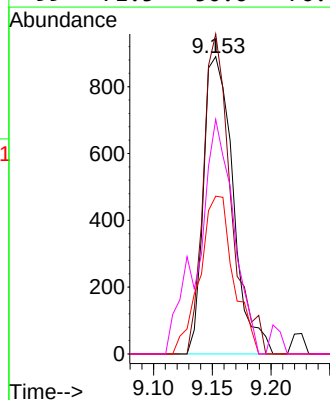
RT: 9.153 min Scan# 1323

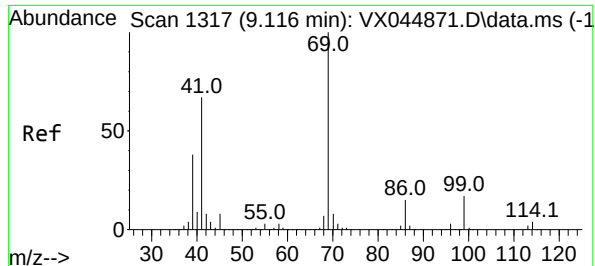
Delta R.T. 0.006 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Tgt Ion:	97	Resp:	1558
Ion	Ratio	Lower	Upper
97	100		
83	107.6	69.8	104.6
85	53.0	44.8	67.2
99	71.5	50.6	76.0





#56

Ethyl methacrylate

Concen: 0.852 ug/l

RT: 9.128 min Scan# 1317

Delta R.T. 0.013 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 69 Resp: 2340

Ion Ratio Lower Upper

69 100

41 61.6 55.2 82.8

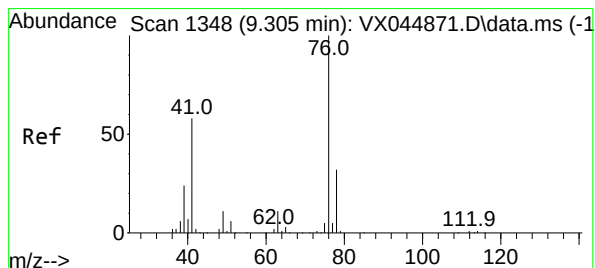
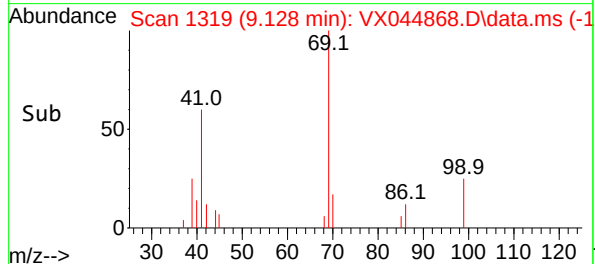
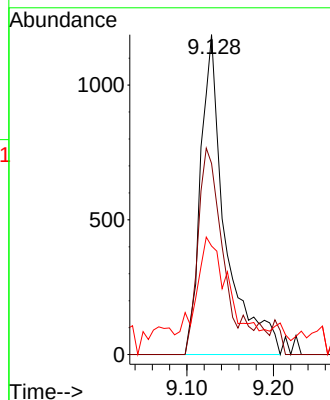
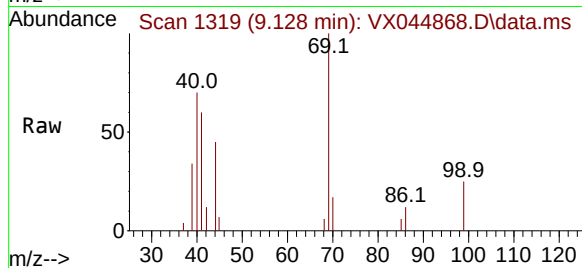
39 56.2 30.8 46.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#57

1,3-Dichloropropane

Concen: 0.905 ug/l

RT: 9.311 min Scan# 1349

Delta R.T. 0.007 min

Lab File: VX044868.D

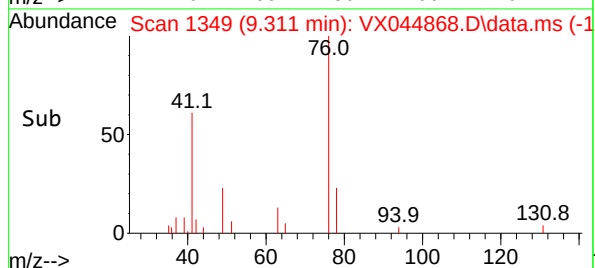
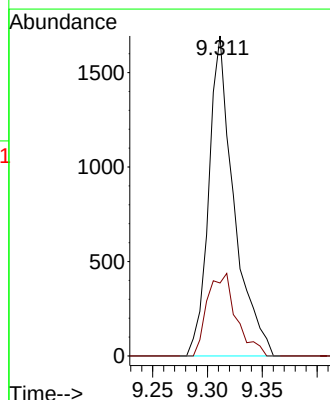
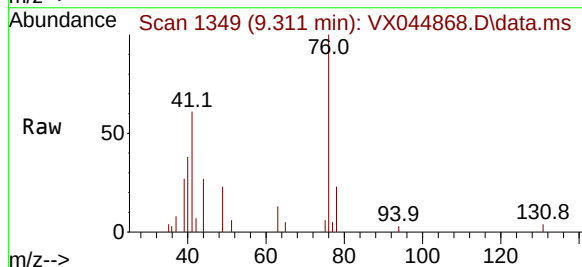
Acq: 10 Feb 2025 10:25

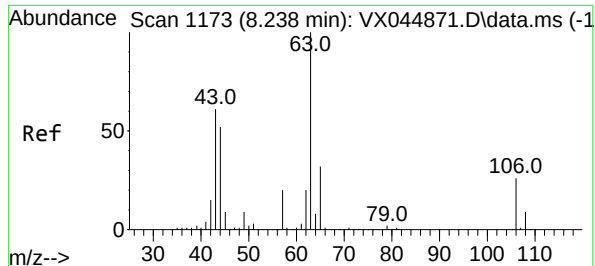
Tgt Ion: 76 Resp: 2699

Ion Ratio Lower Upper

76 100

78 29.6 25.8 38.8





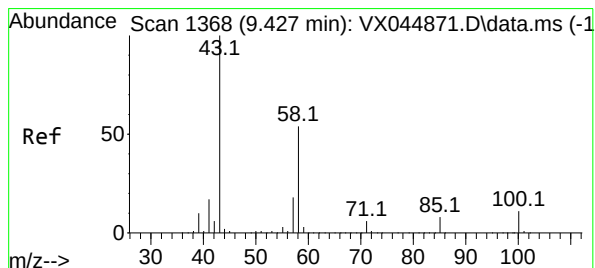
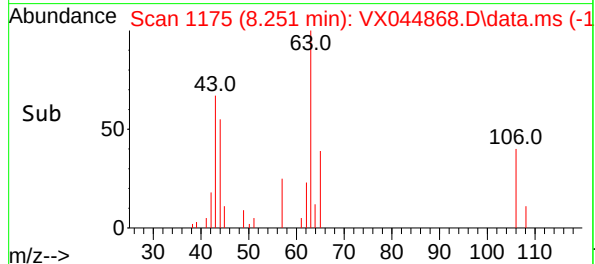
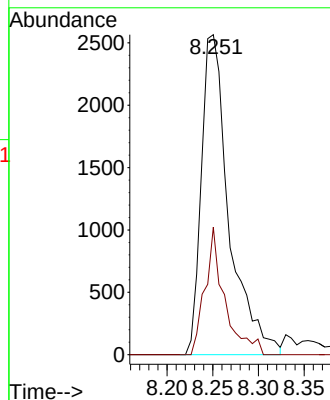
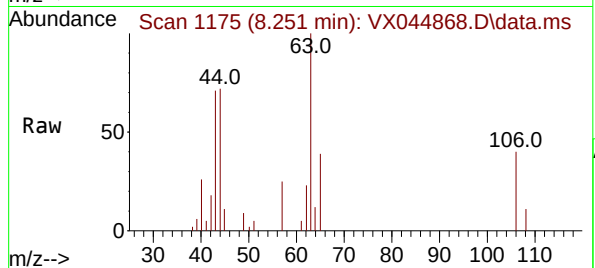
#58
2-Chloroethyl Vinyl ether
Concen: 3.996 ug/l
RT: 8.251 min Scan# 1175
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 540
Ion Ratio Lower Upper
63 100
106 28.2 21.3 31.9

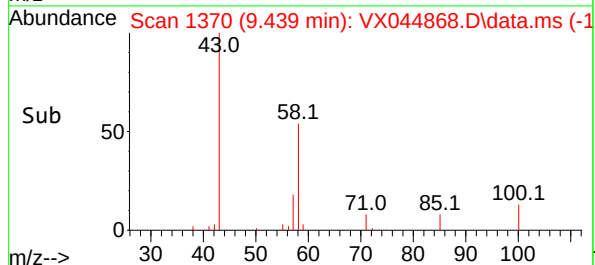
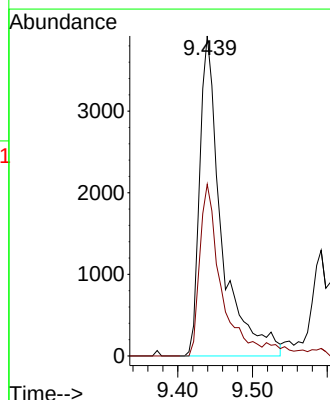
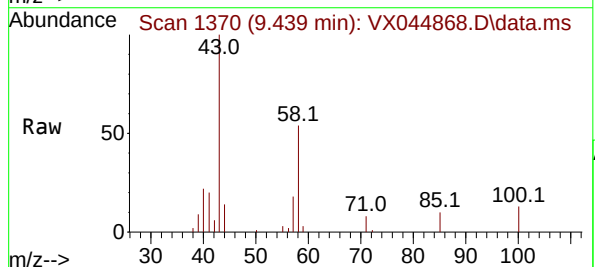
Manual Integrations
APPROVED

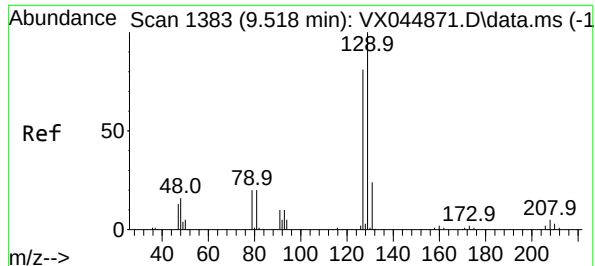
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#59
2-Hexanone
Concen: 4.240 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

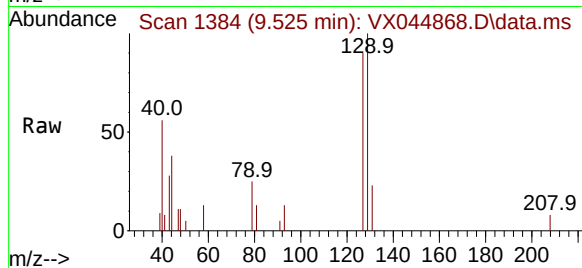
Tgt Ion: 43 Resp: 7952
Ion Ratio Lower Upper
43 100
58 51.3 27.5 82.4





#60
Dibromochloromethane
Concen: 0.885 ug/l
RT: 9.525 min Scan# 1383
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

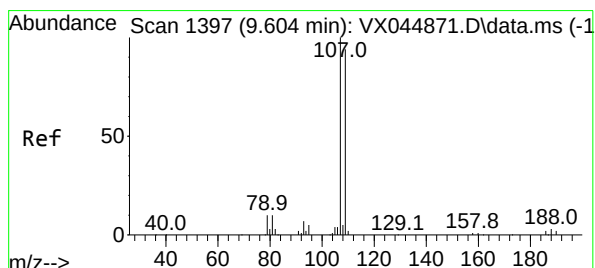
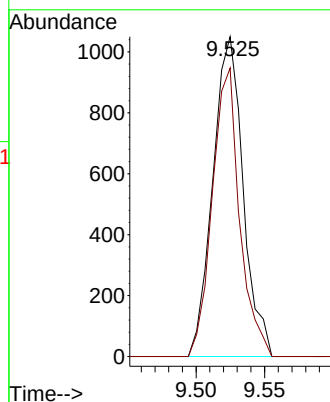
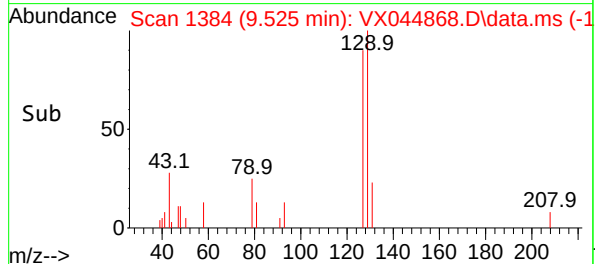
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion:129 Resp: 161
Ion Ratio Lower Upper
129 100
127 81.3 39.1 117.3

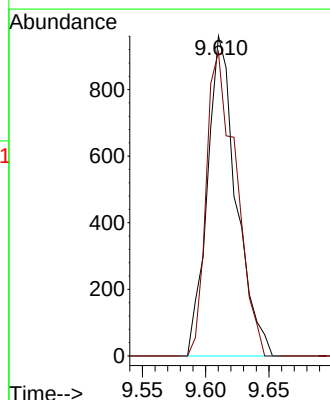
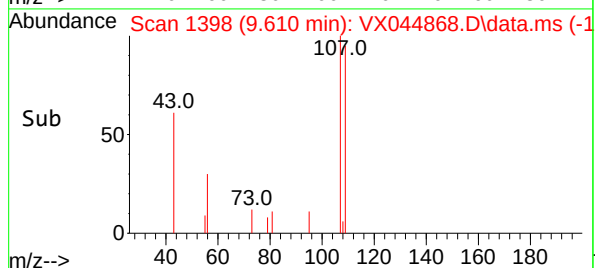
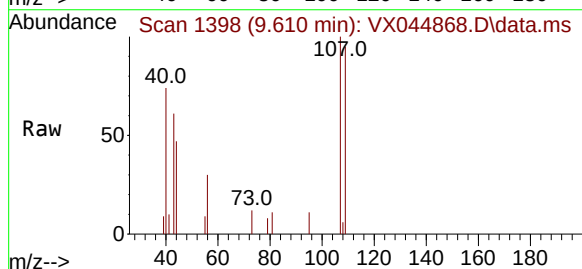
Manual Integrations
APPROVED

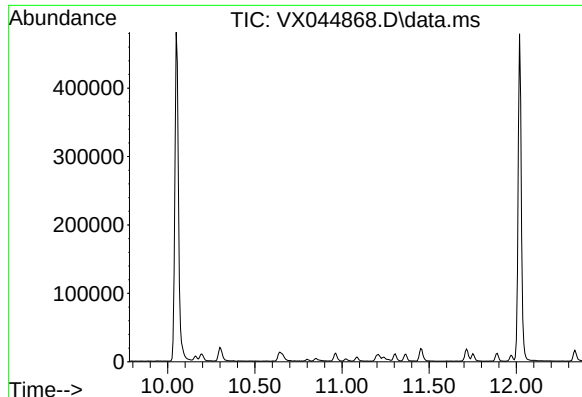
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#61
1,2-Dibromoethane
Concen: 0.888 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:107 Resp: 1534
Ion Ratio Lower Upper
107 100
109 97.4 75.9 113.9





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

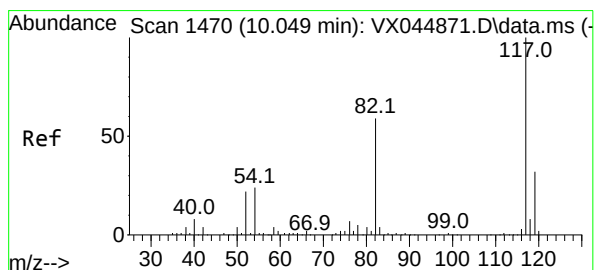
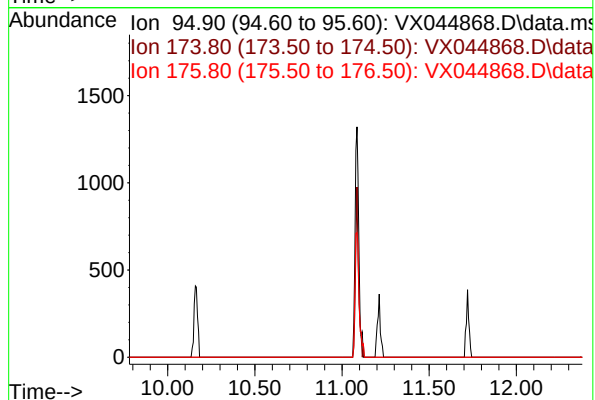
Lab File: VX044868.D
 Acq: 10 Feb 2025 10:25

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC001

Tgt Ion: 95
 Sig Exp Ratio
 95 100
 174 71.3
 176 70.8

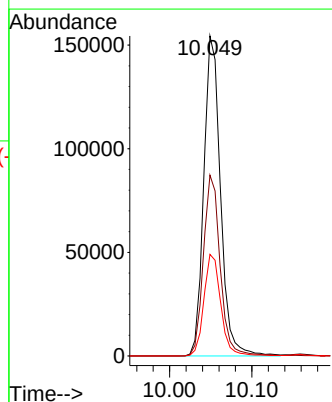
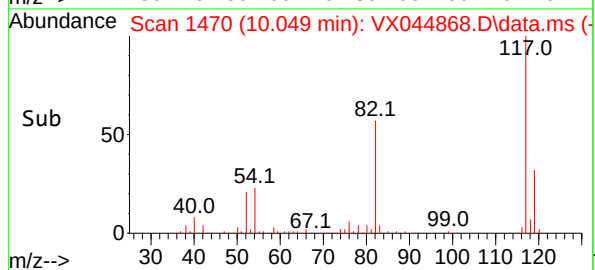
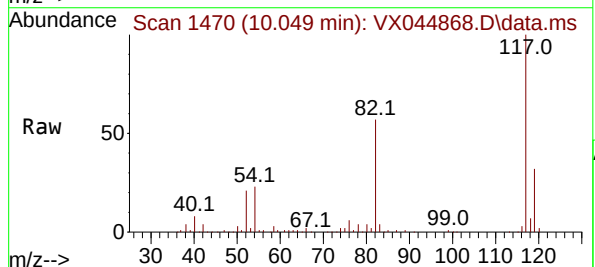
Manual Integrations APPROVED

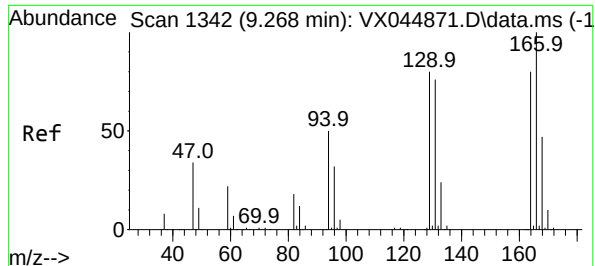
Reviewed By : John Carlone 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 10.049 min Scan# 1470
 Delta R.T. 0.000 min
 Lab File: VX044868.D
 Acq: 10 Feb 2025 10:25

Tgt Ion: 117 Resp: 218570
 Ion Ratio Lower Upper
 117 100
 82 56.5 47.5 71.3
 119 31.8 25.4 38.0





#64

Tetrachloroethene

Concen: 0.971 ug/l

RT: 9.275 min Scan# 1342

Delta R.T. 0.007 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:164 Resp: 1339

Ion Ratio Lower Upper

164 100

166 120.8 100.4 150.6

129 82.1 79.9 119.9

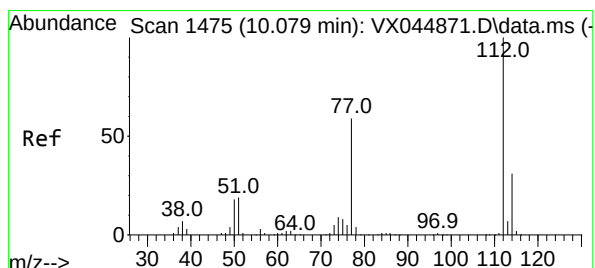
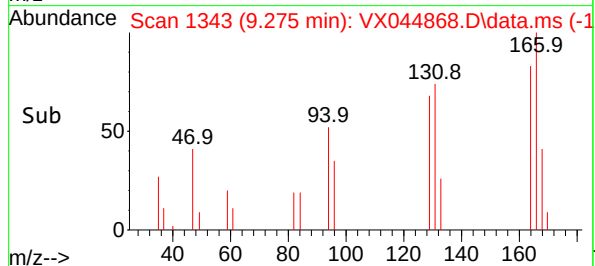
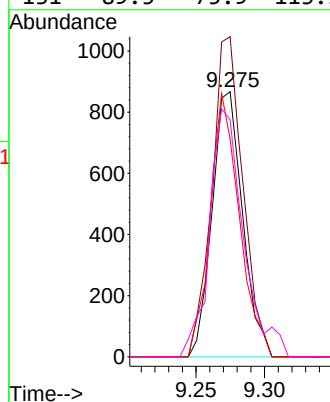
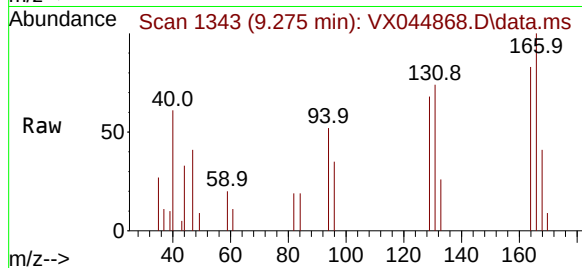
131 89.5 75.9 113.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#65

Chlorobenzene

Concen: 0.902 ug/l

RT: 10.080 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VX044868.D

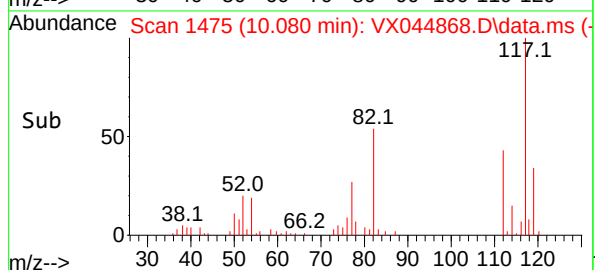
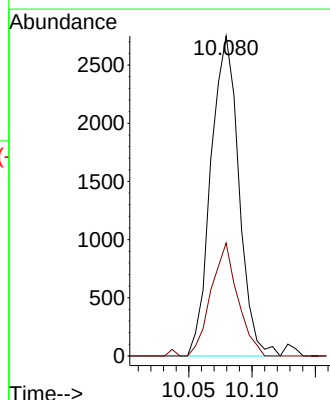
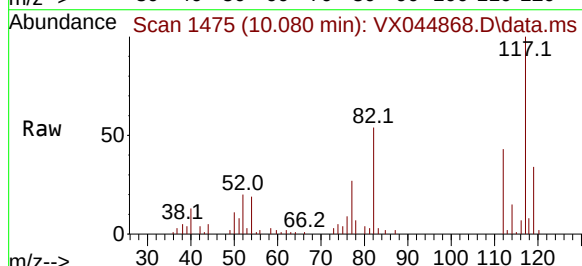
Acq: 10 Feb 2025 10:25

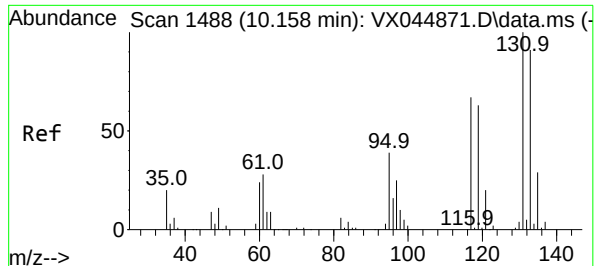
Tgt Ion:112 Resp: 4234

Ion Ratio Lower Upper

112 100

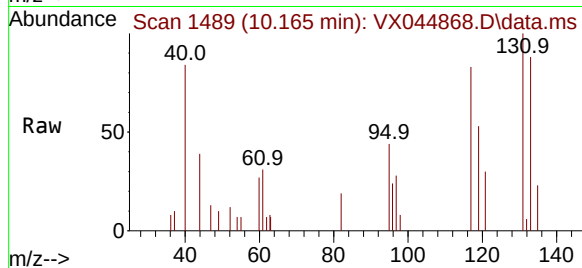
114 35.3 25.0 37.6





#66
1,1,1,2-Tetrachloroethane
Concen: 0.874 ug/l
RT: 10.165 min Scan# 1488
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

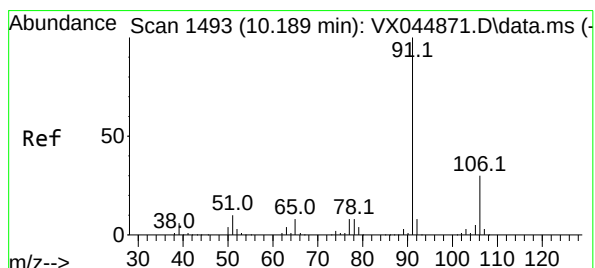
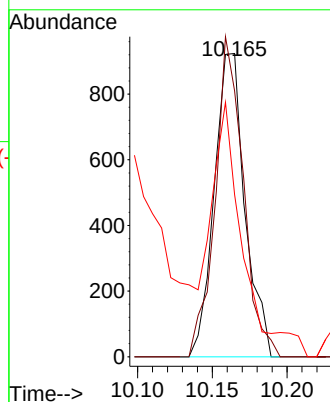
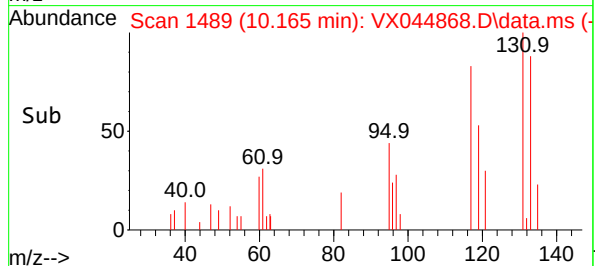
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion:131 Resp: 1320
Ion Ratio Lower Upper
131 100
133 96.0 47.1 141.3
119 0.0 33.6 100.6

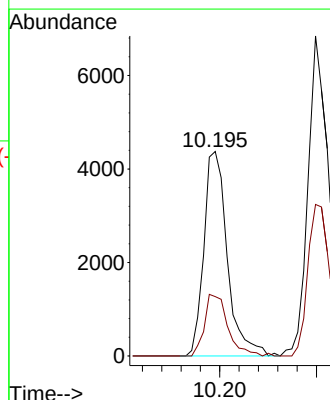
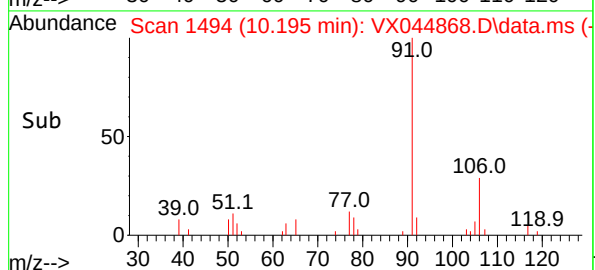
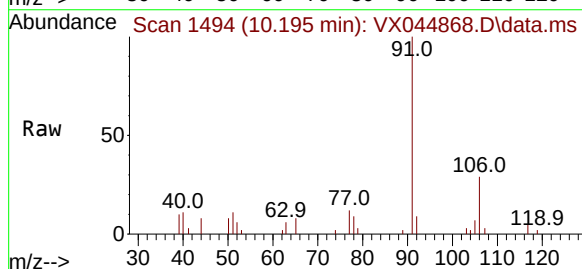
Manual Integrations
APPROVED

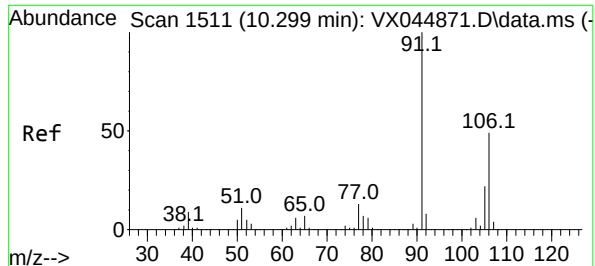
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#67
Ethyl Benzene
Concen: 0.892 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 91 Resp: 7388
Ion Ratio Lower Upper
91 100
106 29.0 23.9 35.9





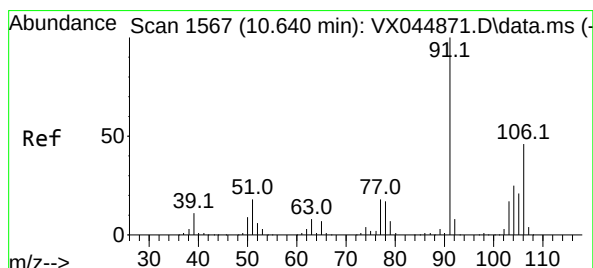
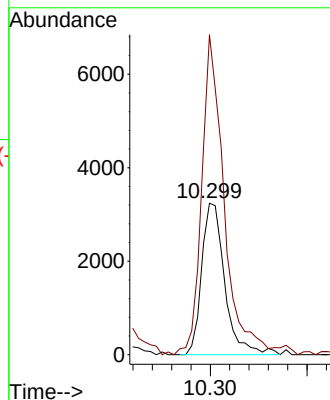
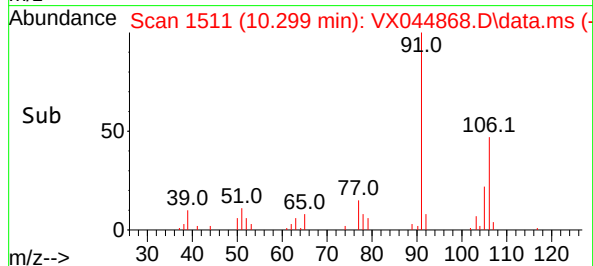
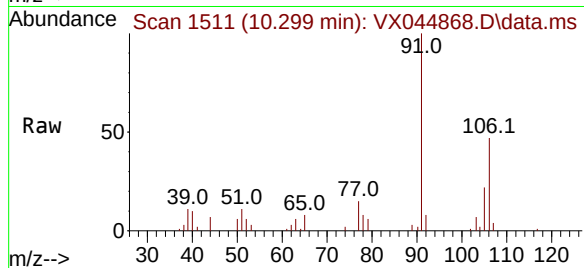
#68
m/p-Xylenes
Concen: 1.763 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:106 Resp: 538
Ion Ratio Lower Upper
106 100
91 204.7 164.3 246.5

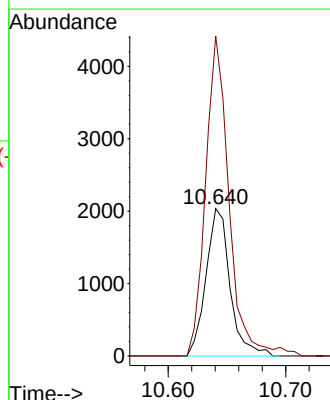
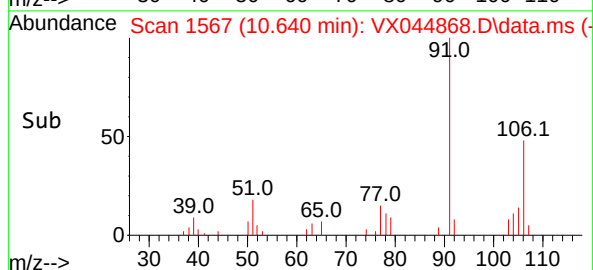
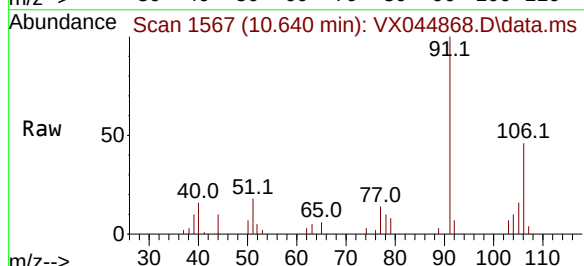
Manual Integrations
APPROVED

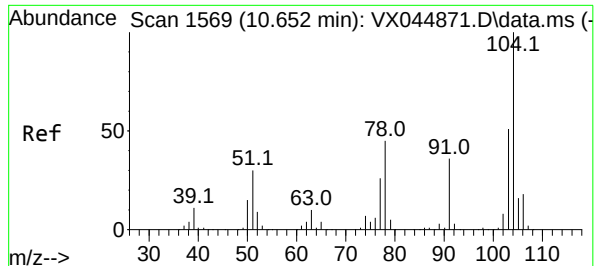
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#69
o-Xylene
Concen: 0.942 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:106 Resp: 2889
Ion Ratio Lower Upper
106 100
91 211.5 108.5 325.5





#70

Styrene

Concen: 0.804 ug/l

RT: 10.659 min Scan# 1569

Delta R.T. 0.007 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

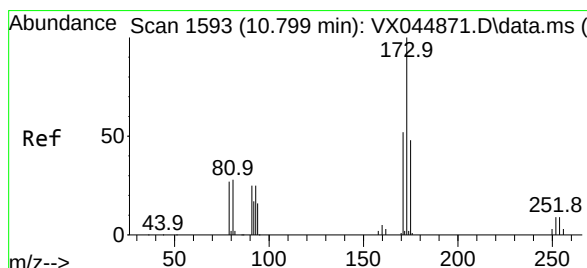
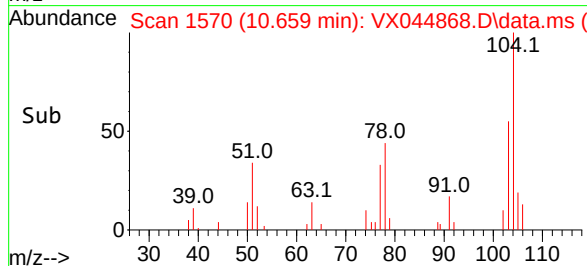
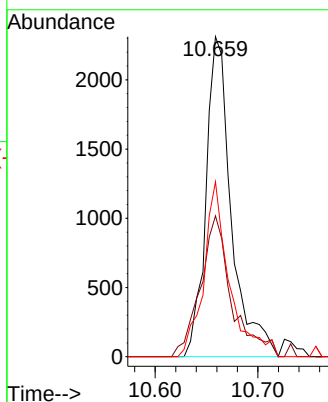
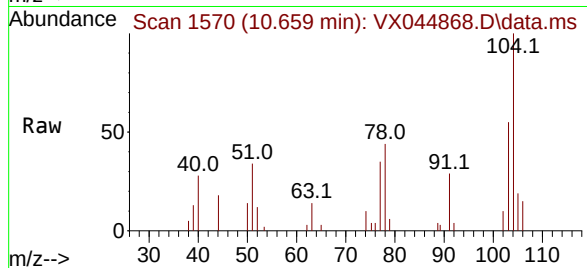
Tgt Ion:104	Resp:	3974
Ion Ratio	Lower	Upper
104	100	
78	54.1	40.5 60.7
103	55.0	43.6 65.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#71

Bromoform

Concen: 0.721 ug/l

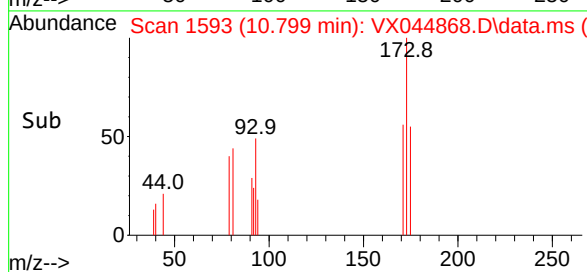
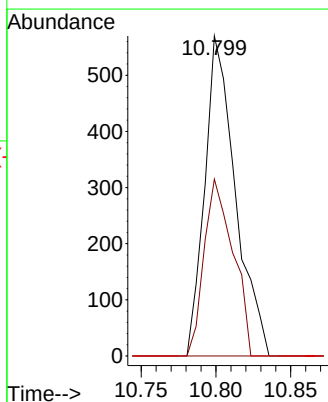
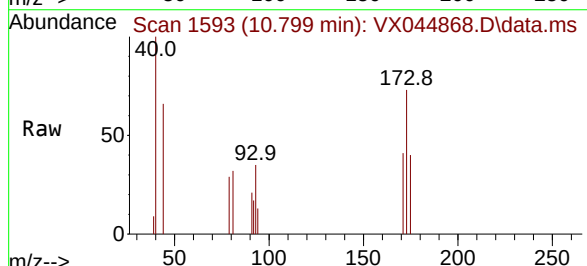
RT: 10.799 min Scan# 1593

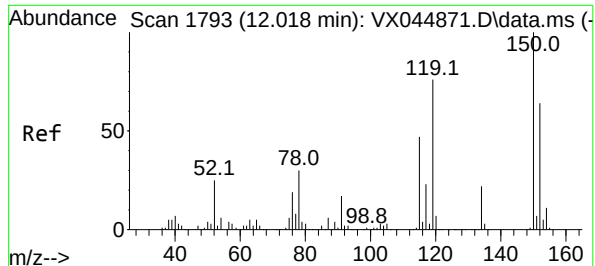
Delta R.T. 0.000 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Tgt Ion:173	Resp:	813
Ion Ratio	Lower	Upper
173	100	
175	52.2	24.3 72.8
254	0.0	0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion:152 Resp: 9073

Ion Ratio Lower Upper

152 100

115 62.0 43.4 130.1

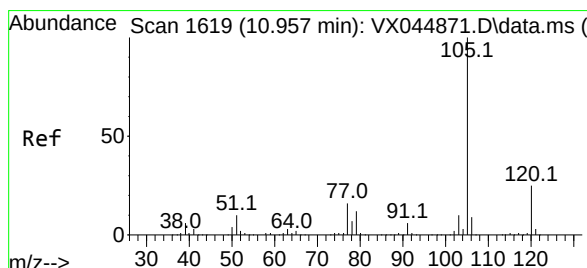
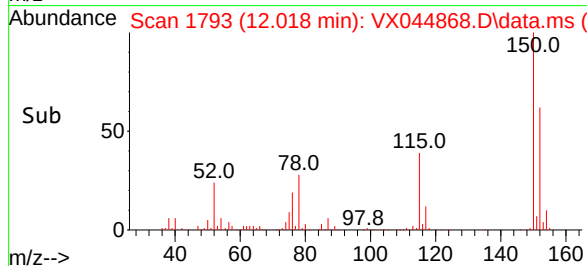
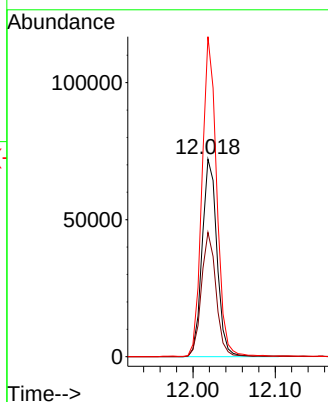
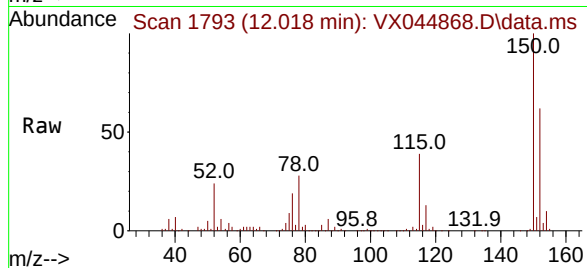
150 158.6 0.0 350.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#73

Isopropylbenzene

Concen: 0.928 ug/l

RT: 10.964 min Scan# 1620

Delta R.T. 0.007 min

Lab File: VX044868.D

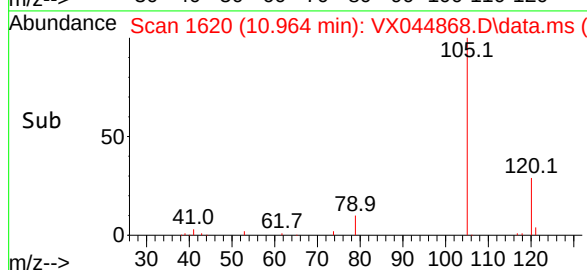
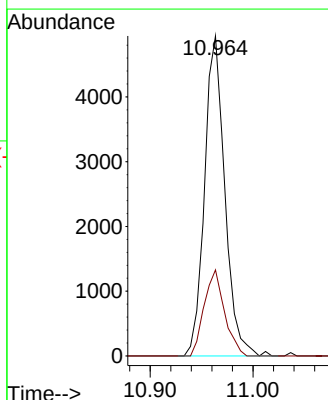
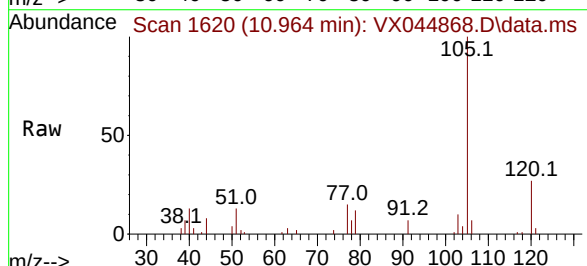
Acq: 10 Feb 2025 10:25

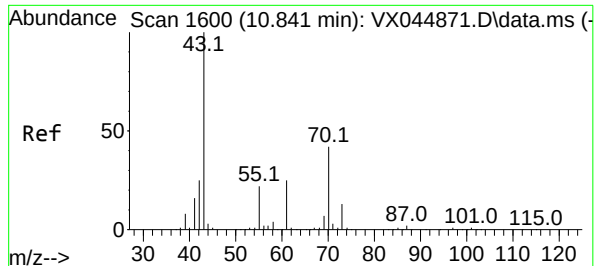
Tgt Ion:105 Resp: 6778

Ion Ratio Lower Upper

105 100

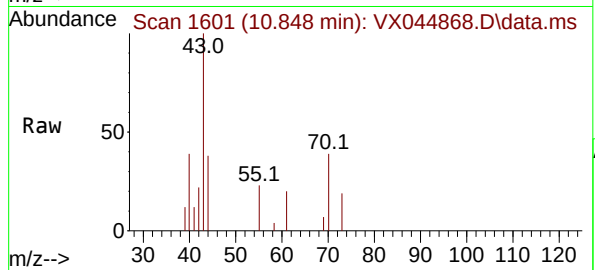
120 27.0 13.2 39.5





#74
N-amy1 acetate
Concen: 0.785 ug/l
RT: 10.848 min Scan# 1601
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

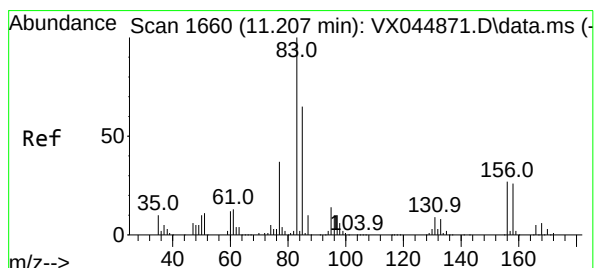
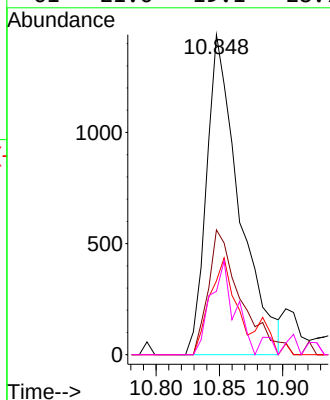
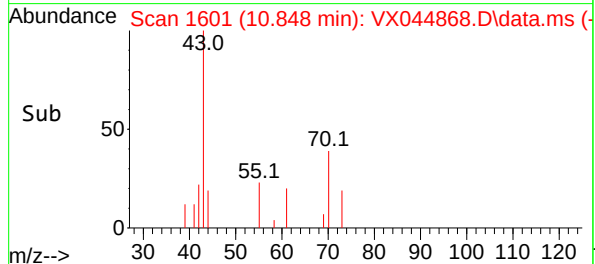
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 43 Resp: 2590
Ion Ratio Lower Upper
43 100
70 38.8 33.7 50.5
55 25.2 18.6 27.8
61 21.6 19.1 28.7

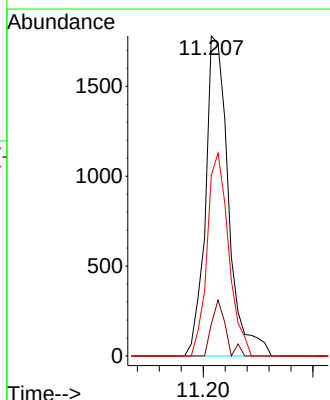
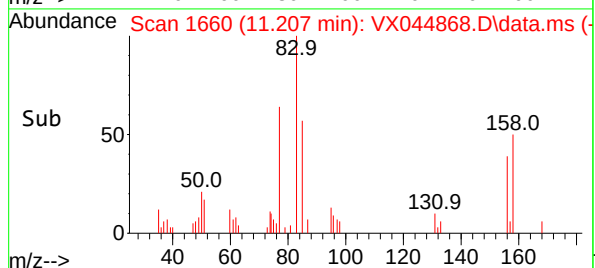
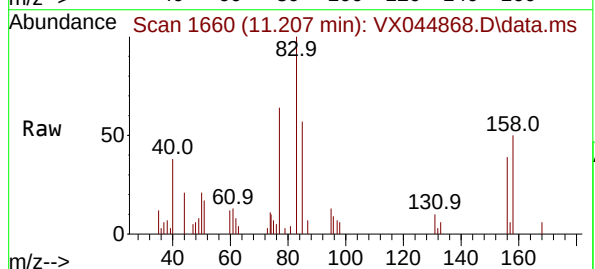
Manual Integrations
APPROVED

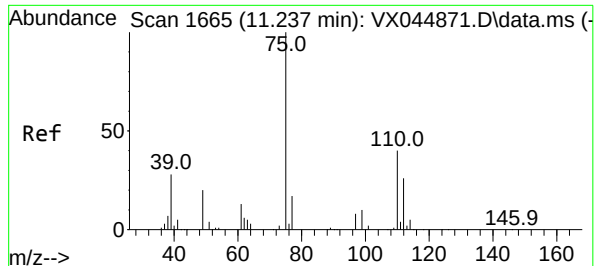
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#75
1,1,2,2-Tetrachloroethane
Concen: 1.033 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 83 Resp: 2594
Ion Ratio Lower Upper
83 100
131 10.5 4.5 13.5
85 59.2 32.3 96.8





#76

1,2,3-Trichloropropane

Concen: 0.943 ug/l m

RT: 11.238 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 75 Resp: 1898

Ion Ratio Lower Upper

75 100

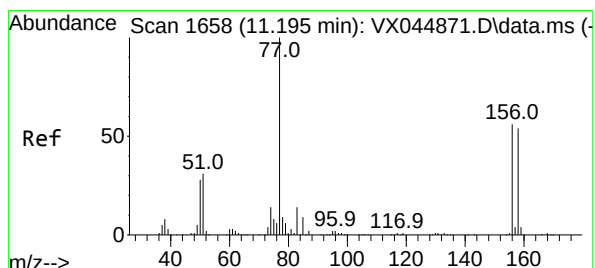
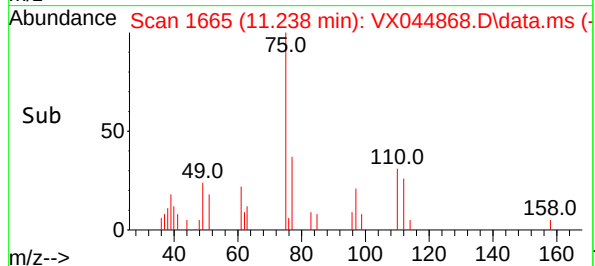
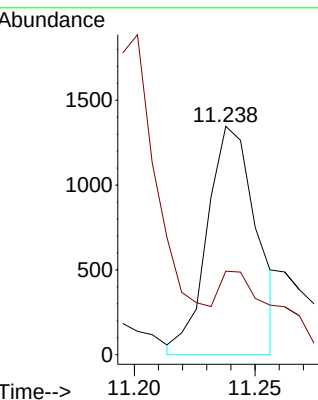
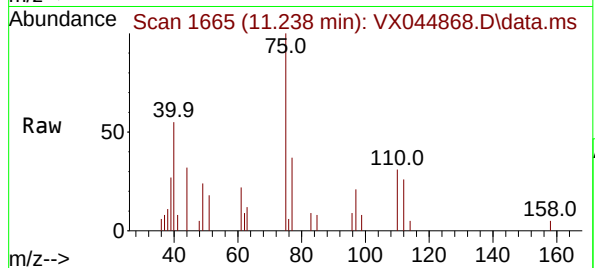
77 43.4 21.9 65.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#77

Bromobenzene

Concen: 0.928 ug/l

RT: 11.201 min Scan# 1659

Delta R.T. 0.006 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

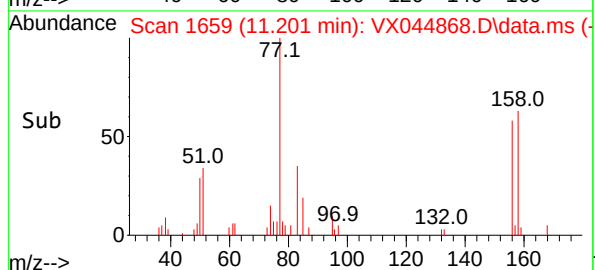
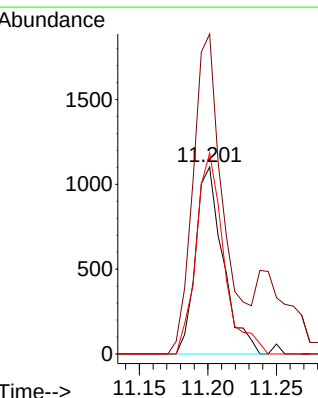
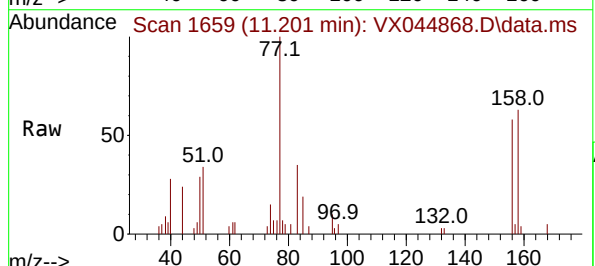
Tgt Ion:156 Resp: 1537

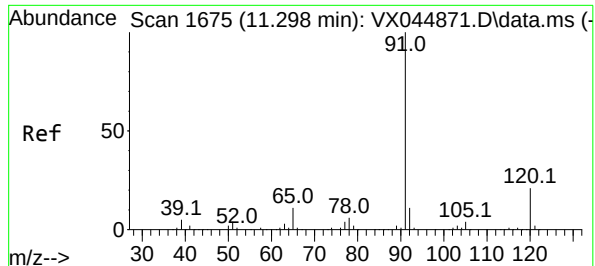
Ion Ratio Lower Upper

156 100

77 188.7 88.4 265.3

158 108.6 48.4 145.2





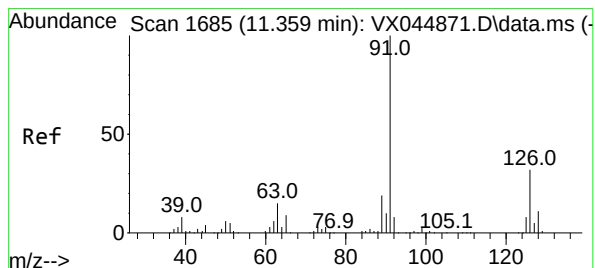
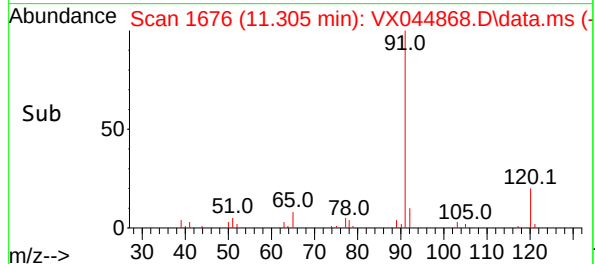
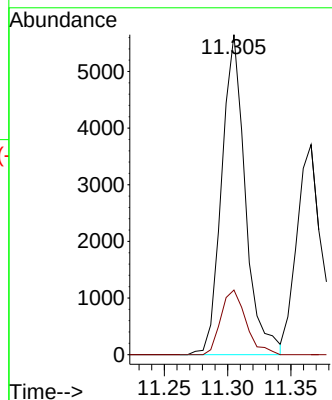
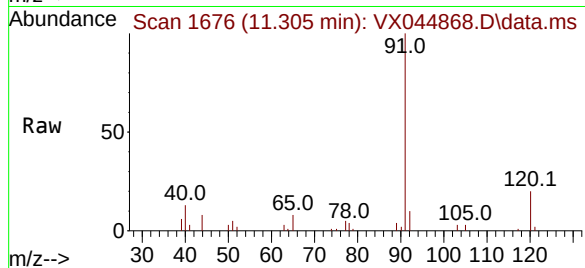
#78
n-propylbenzene
Concen: 0.871 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 734
Ion Ratio Lower Upper
91 100
120 21.4 11.1 33.3

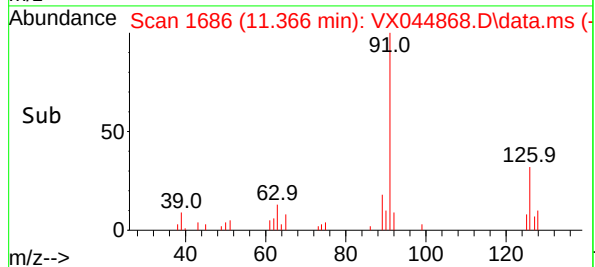
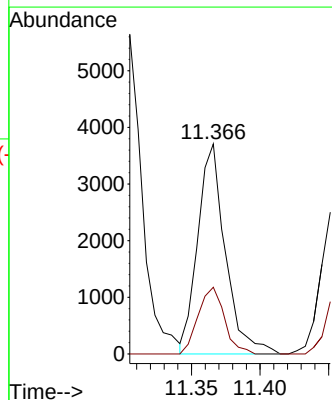
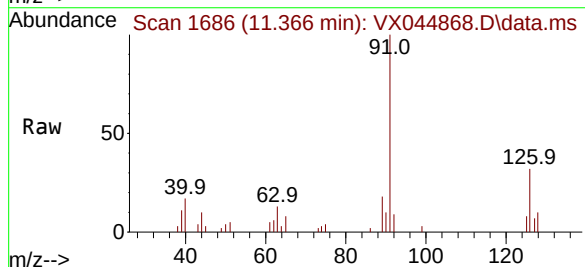
Manual Integrations
APPROVED

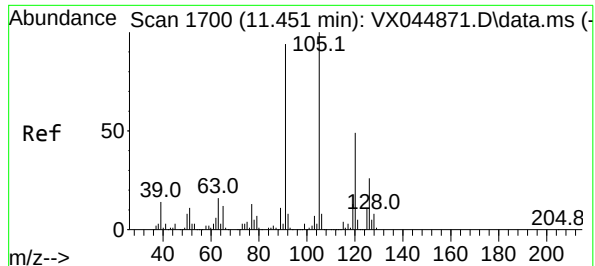
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#79
2-Chlorotoluene
Concen: 1.001 ug/l
RT: 11.366 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

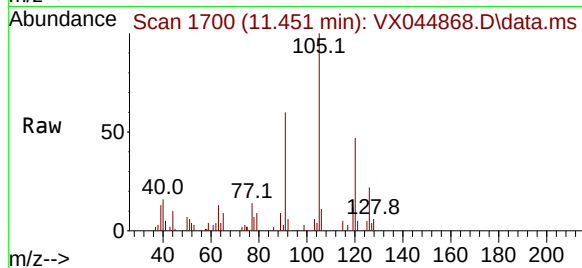
Tgt Ion: 91 Resp: 5188
Ion Ratio Lower Upper
91 100
126 30.1 16.2 48.6





#80
1,3,5-Trimethylbenzene
Concen: 0.913 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

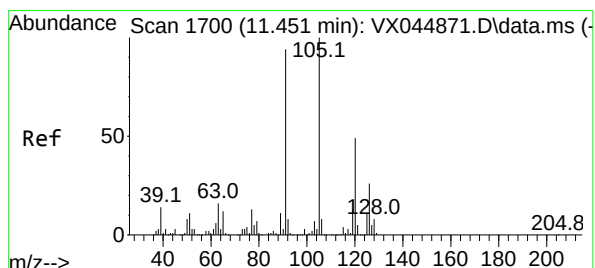
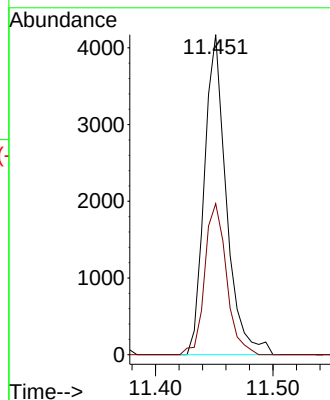
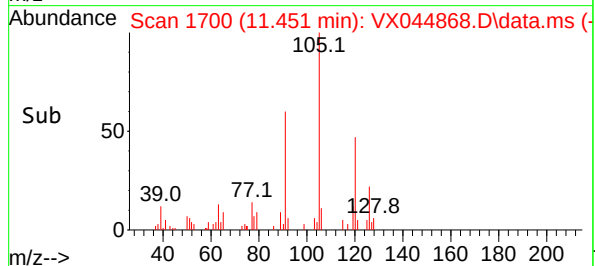
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



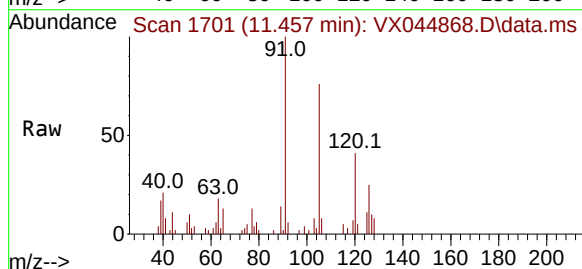
Tgt Ion:105 Resp: 5410
Ion Ratio Lower Upper
105 100
120 46.7 24.0 72.0

Manual Integrations
APPROVED

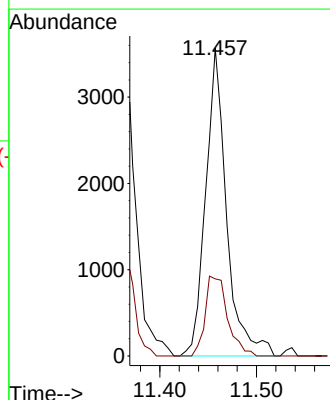
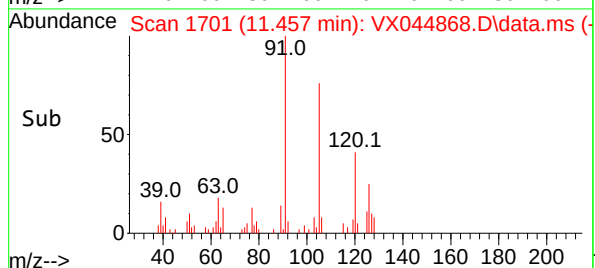
Reviewed By :John Carbone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

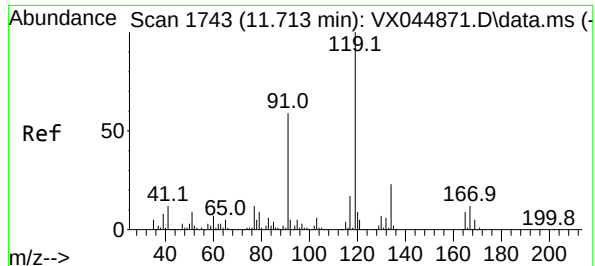


#82
4-Chlorotoluene
Concen: 0.936 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25



Tgt Ion: 91 Resp: 5367
Ion Ratio Lower Upper
91 100
126 27.7 14.2 42.6





#83

tert-Butylbenzene

Concen: 0.937 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:119 Resp: 5620

Ion Ratio Lower Upper

119 100

91 61.3 29.1 87.4

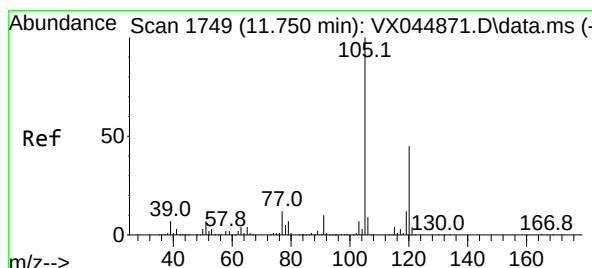
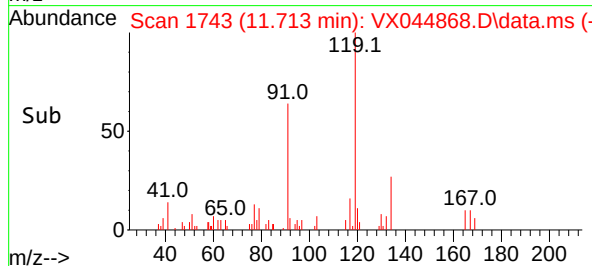
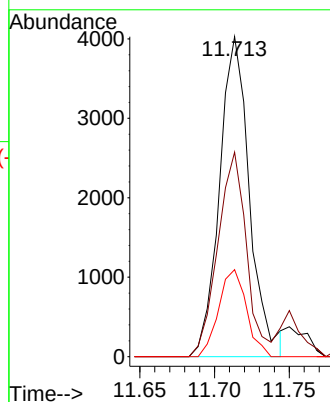
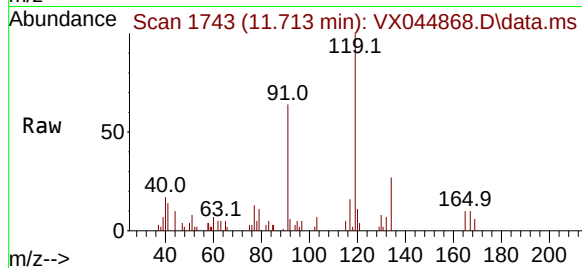
134 25.2 11.5 34.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#84

1,2,4-Trimethylbenzene

Concen: 0.833 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX044868.D

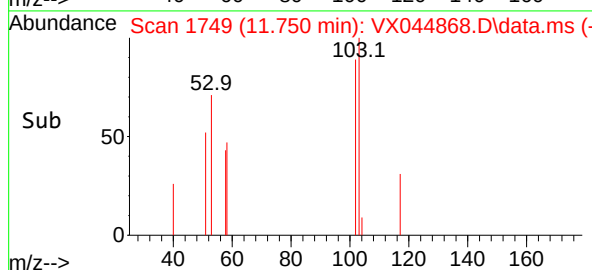
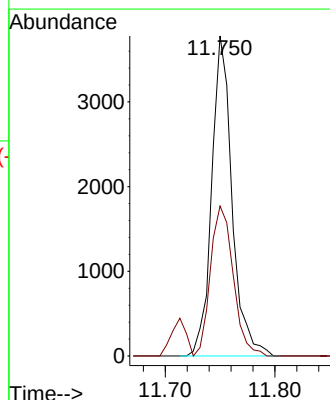
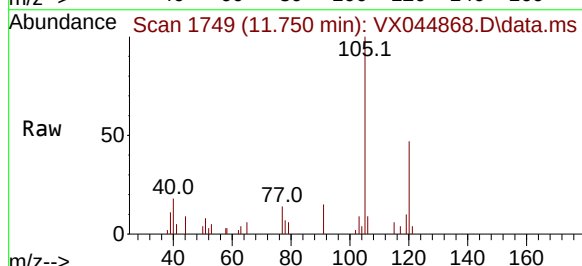
Acq: 10 Feb 2025 10:25

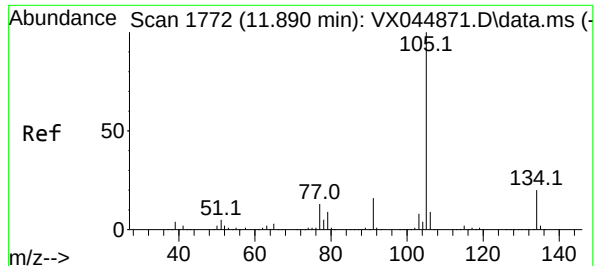
Tgt Ion:105 Resp: 4876

Ion Ratio Lower Upper

105 100

120 52.4 22.4 67.0





#85

sec-Butylbenzene

Concen: 0.902 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion:105 Resp: 6700

Ion Ratio Lower Upper

105 100

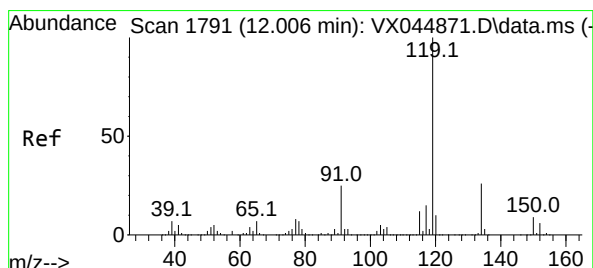
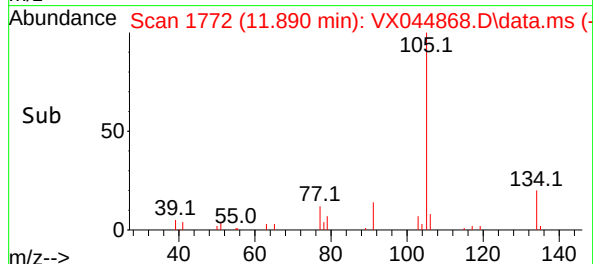
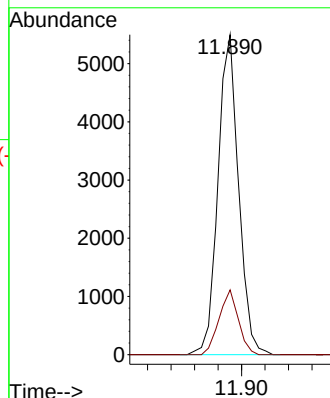
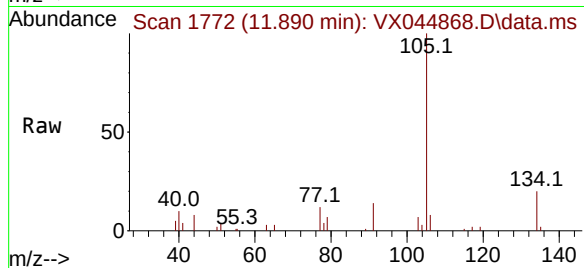
134 19.0 9.8 29.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#86

p-Isopropyltoluene

Concen: 0.864 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

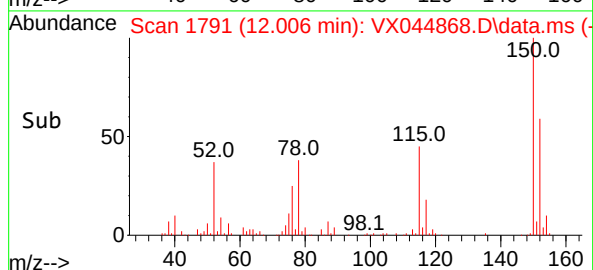
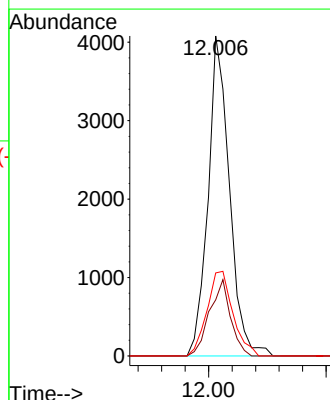
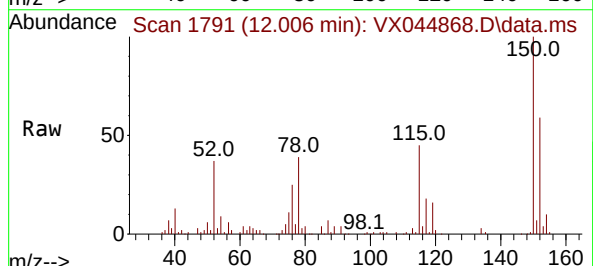
Tgt Ion:119 Resp: 5161

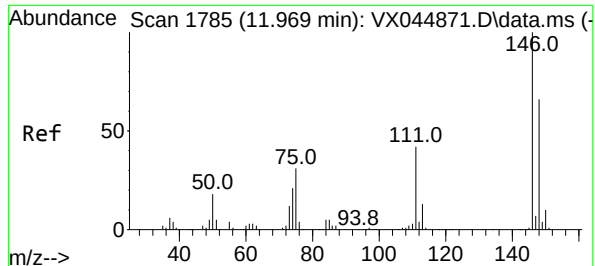
Ion Ratio Lower Upper

119 100

134 23.4 13.0 38.9

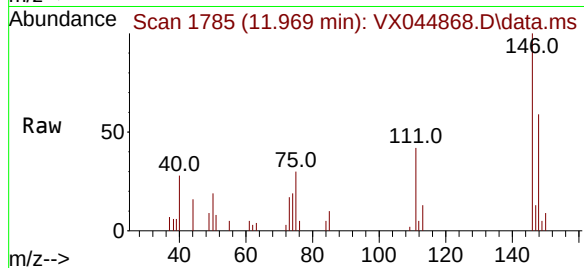
91 32.0 12.1 36.3





#87
1,3-Dichlorobenzene
Concen: 0.963 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

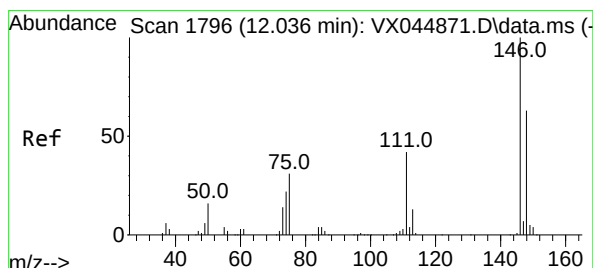
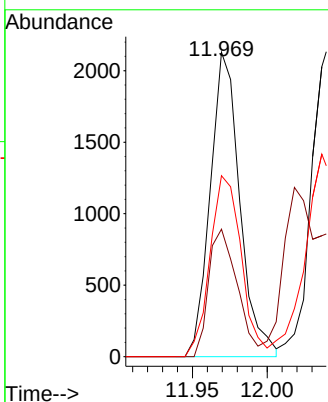
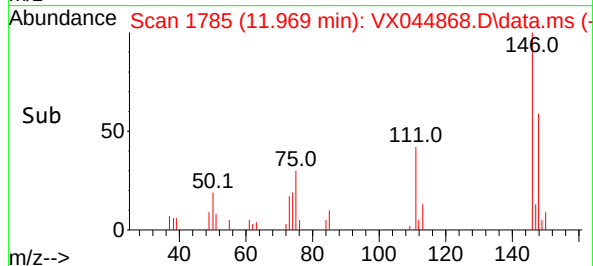
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



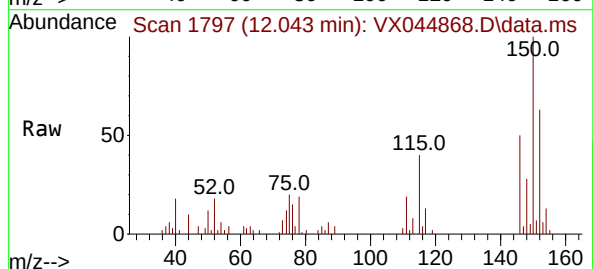
Tgt Ion:146 Resp: 293
Ion Ratio Lower Upper
146 100
111 40.4 21.2 63.6
148 62.8 32.5 97.5

Manual Integrations
APPROVED

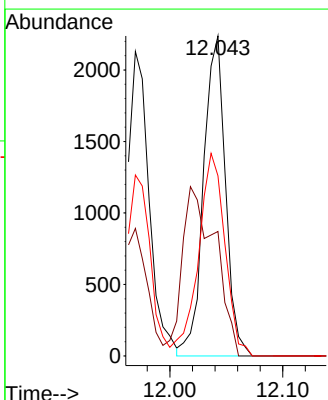
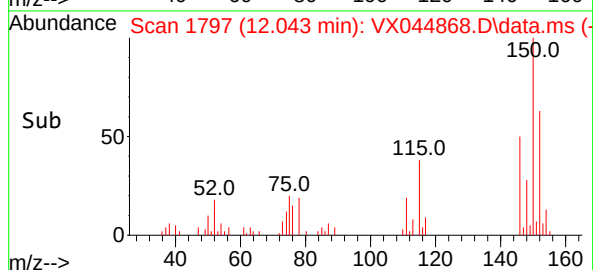
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

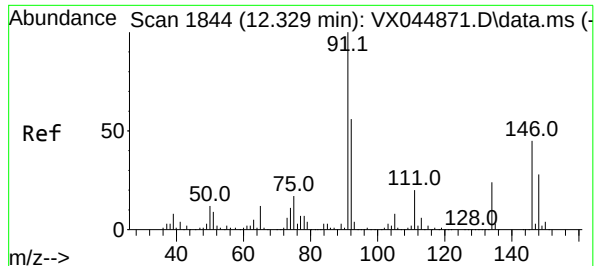


#88
1,4-Dichlorobenzene
Concen: 0.979 ug/l m
RT: 12.043 min Scan# 1797
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25



Tgt Ion:146 Resp: 3016
Ion Ratio Lower Upper
146 100
111 39.3 20.4 61.3
148 61.0 32.0 96.0





#89

n-Butylbenzene

Concen: 0.734 ug/l

RT: 12.335 min Scan# 1844

Delta R.T. 0.006 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 3880

Ion Ratio Lower Upper

91 100

92 60.9 27.2 81.6

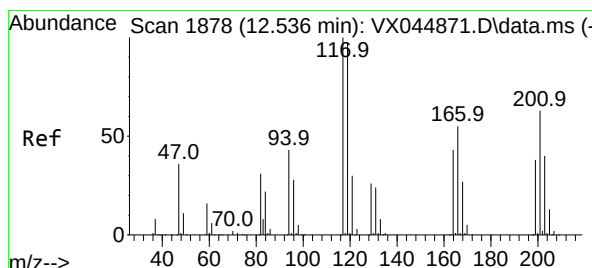
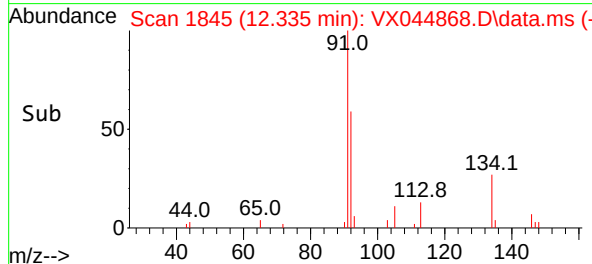
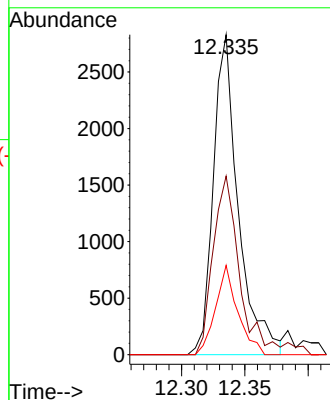
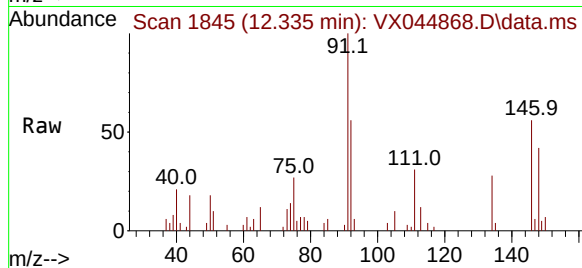
134 24.8 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#90

Hexachloroethane

Concen: 0.866 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX044868.D

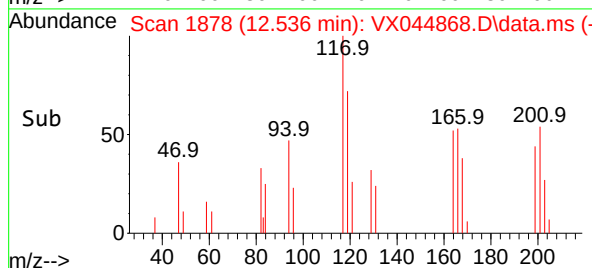
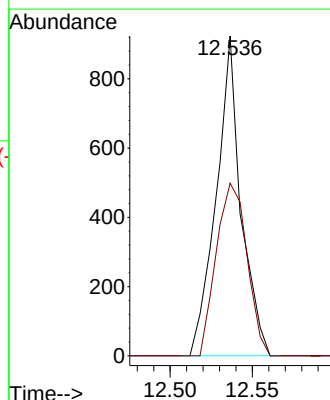
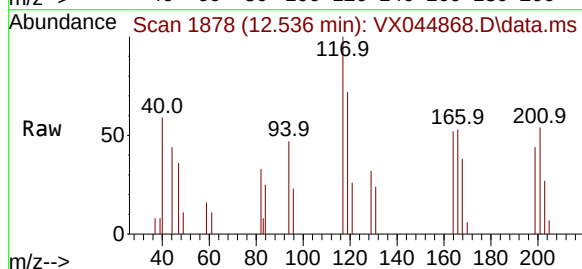
Acq: 10 Feb 2025 10:25

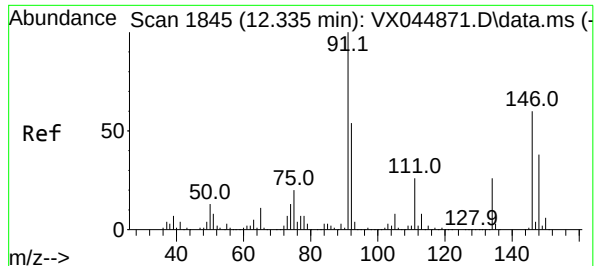
Tgt Ion:117 Resp: 968

Ion Ratio Lower Upper

117 100

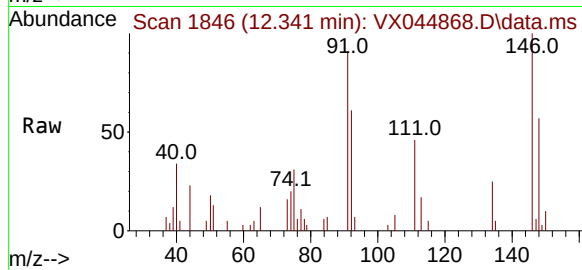
201 66.8 32.5 97.5





#91
1,2-Dichlorobenzene
Concen: 0.917 ug/l
RT: 12.341 min Scan# 1845
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

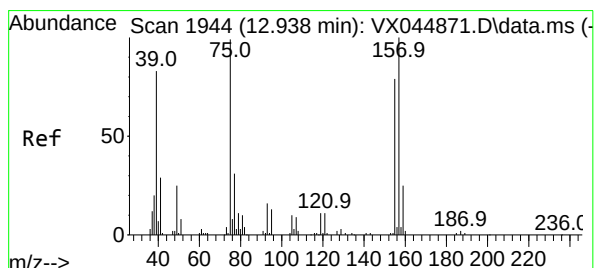
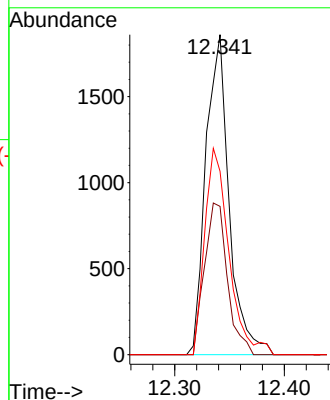
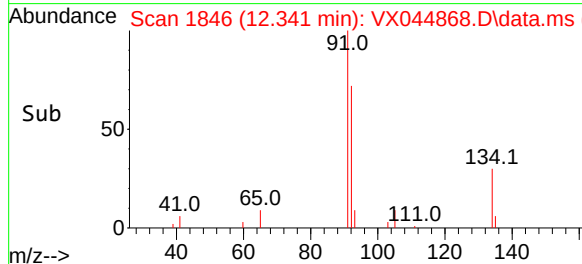
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



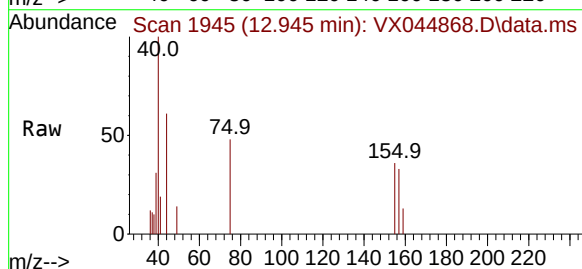
Tgt Ion:146 Resp: 2744
Ion Ratio Lower Upper
146 100
111 46.7 21.8 65.4
148 67.2 31.9 95.9

Manual Integrations
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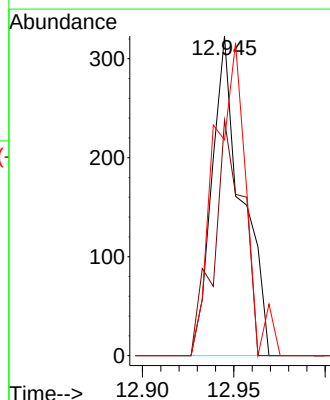
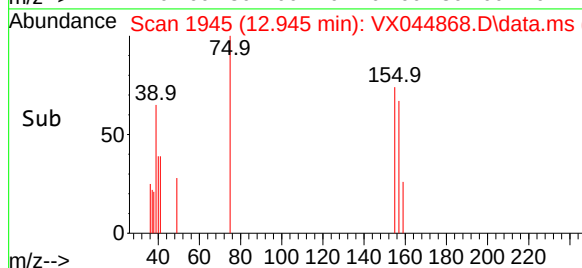
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

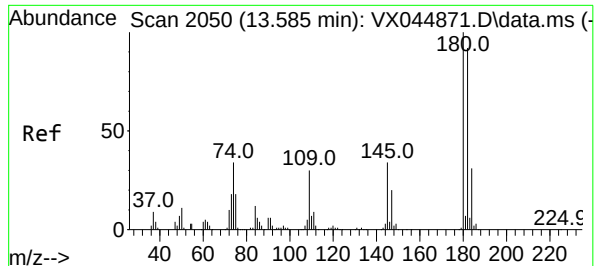


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.801 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25



Tgt Ion: 75 Resp: 367
Ion Ratio Lower Upper
75 100
155 71.7 40.5 121.4
157 104.1 51.4 154.3





#93

1,2,4-Trichlorobenzene

Concen: 0.861 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.007 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

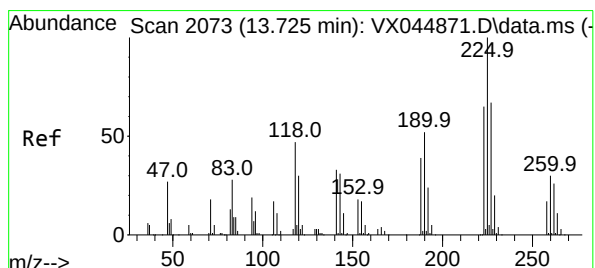
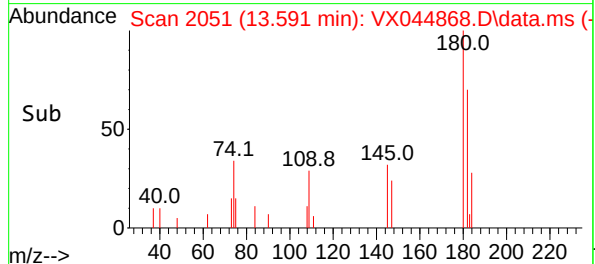
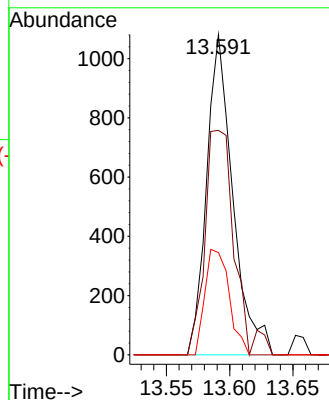
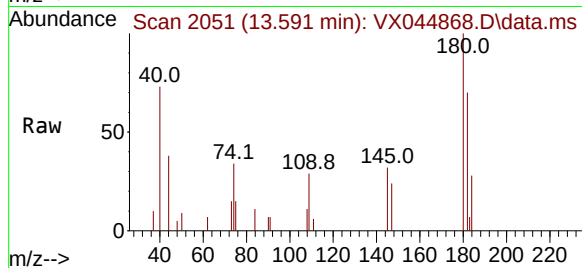
Tgt Ion:	180	Resp:	1560
Ion	Ratio	Lower	Upper
180	100		
182	78.7	47.6	142.8
145	30.4	16.4	49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#94

Hexachlorobutadiene

Concen: 0.966 ug/l

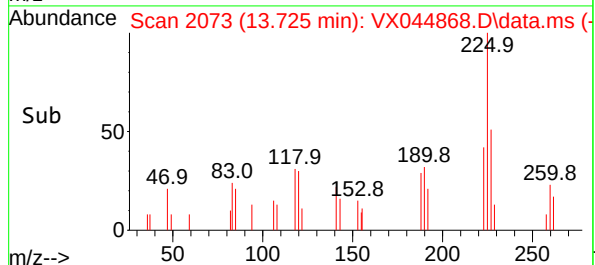
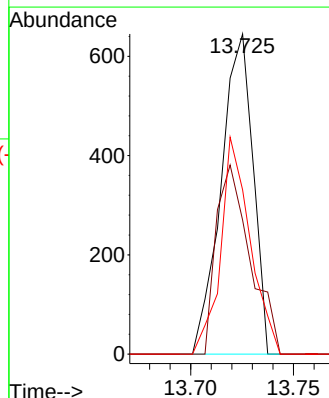
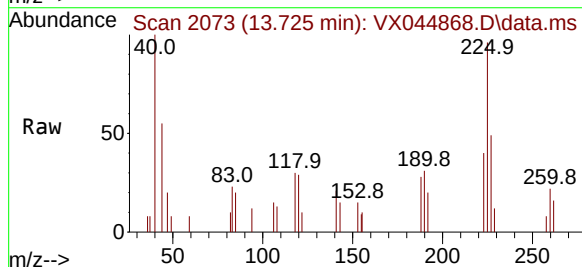
RT: 13.725 min Scan# 2073

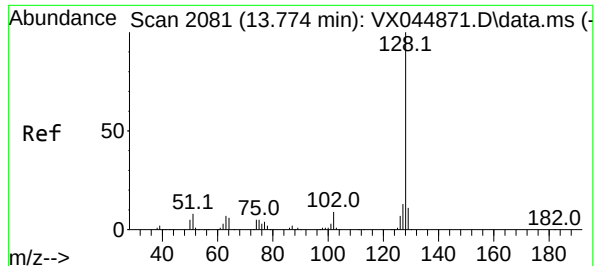
Delta R.T. 0.000 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Tgt Ion:	225	Resp:	695
Ion	Ratio	Lower	Upper
225	100		
223	63.2	31.4	94.2
227	62.6	32.3	96.8





#95

Naphthalene

Concen: 0.783 ug/l

RT: 13.780 min Scan# 2081

Delta R.T. 0.007 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

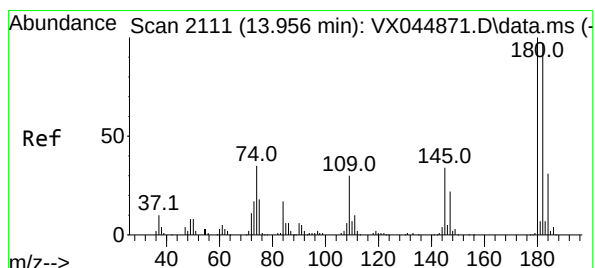
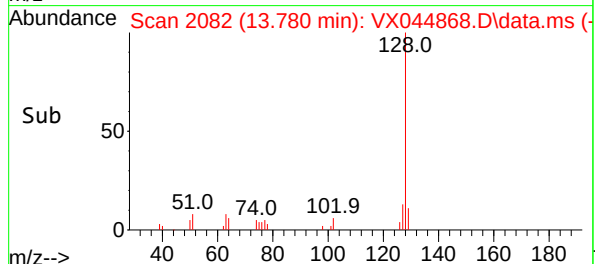
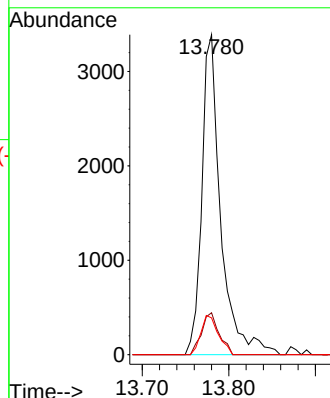
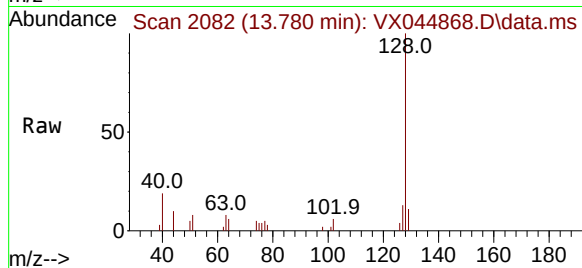
Tgt Ion:	128	Resp:	512
Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.1	15.1
129	11.3	8.9	13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#96

1,2,3-Trichlorobenzene

Concen: 0.853 ug/l

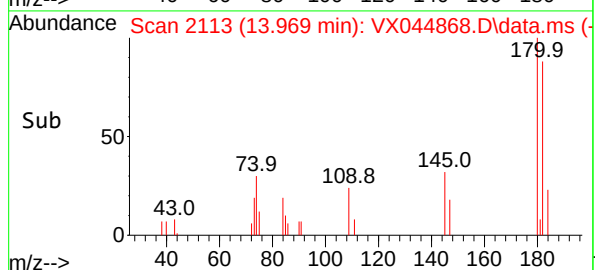
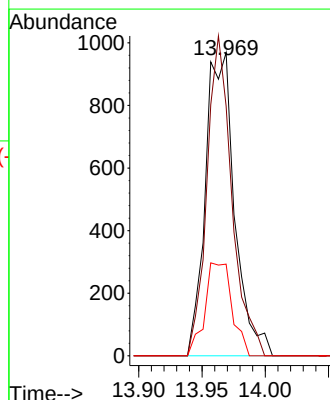
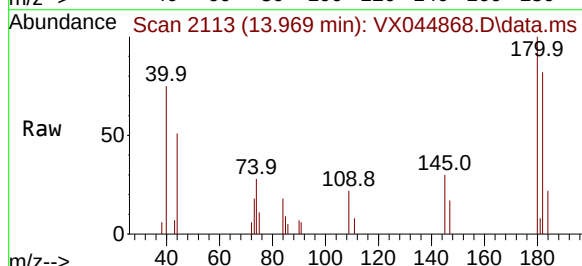
RT: 13.969 min Scan# 2113

Delta R.T. 0.013 min

Lab File: VX044868.D

Acq: 10 Feb 2025 10:25

Tgt Ion:	180	Resp:	1557
Ion	Ratio	Lower	Upper
180	100		
182	90.0	47.9	143.6
145	28.5	17.1	51.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044869.D
 Acq On : 10 Feb 2025 10:48
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 03:36:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:33:20 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	136105	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	253314	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	218625	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	95494	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	10397	5.219	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	10.440%#		
35) Dibromofluoromethane	5.385	113	8482	5.150	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.300%#		
50) Toluene-d8	8.647	98	31381	5.039	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.080%#		
62) 4-Bromofluorobenzene	11.079	95	10229	4.872	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.740%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	9109	4.772	ug/l	94
3) Chloromethane	1.301	50	11711	5.041	ug/l	97
4) Vinyl Chloride	1.374	62	11509	5.113	ug/l	94
5) Bromomethane	1.593	94	3371	5.005	ug/l	89
6) Chloroethane	1.660	64	3918m	4.973	ug/l	
7) Trichlorofluoromethane	1.868	101	14506	5.096	ug/l	100
8) Diethyl Ether	2.136	74	5062	4.904	ug/l	90
9) 1,1,2-Trichlorotrifluo...	2.319	101	8805	5.120	ug/l	98
10) Methyl Iodide	2.447	142	10233	4.591	ug/l	99
11) Tert butyl alcohol	2.983	59	10044	27.175	ug/l	100
12) 1,1-Dichloroethene	2.307	96	8692	4.955	ug/l	95
13) Acrolein	2.239	56	9750	25.567	ug/l	98
14) Allyl chloride	2.660	41	15649	4.936	ug/l	98
15) Acrylonitrile	3.062	53	24101	24.422	ug/l	98
16) Acetone	2.386	43	19877	24.817	ug/l	99
17) Carbon Disulfide	2.502	76	23568	4.899	ug/l	98
18) Methyl Acetate	2.703	43	12257	4.850	ug/l	97
19) Methyl tert-butyl Ether	3.111	73	28100	5.034	ug/l	99
20) Methylene Chloride	2.782	84	9757	4.973	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	8470	4.906	ug/l	94
22) Diisopropyl ether	3.757	45	29768	4.963	ug/l #	80
23) Vinyl Acetate	3.721	43	119108	24.358	ug/l	98
24) 1,1-Dichloroethane	3.605	63	17113	5.099	ug/l	98
25) 2-Butanone	4.568	43	32121	24.698	ug/l	98
26) 2,2-Dichloropropane	4.459	77	13365	5.022	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	10662	5.141	ug/l	95
28) Bromochloromethane	4.898	49	7881	4.886	ug/l #	96
29) Tetrahydrofuran	5.013	42	21097	24.429	ug/l	98
30) Chloroform	5.087	83	16449	5.054	ug/l	98
31) Cyclohexane	5.464	56	15705	5.076	ug/l	91
32) 1,1,1-Trichloroethane	5.379	97	13658	4.947	ug/l	98
36) 1,1-Dichloropropene	5.684	75	11835	4.981	ug/l	98
37) Ethyl Acetate	4.721	43	13530	5.122	ug/l	99
38) Carbon Tetrachloride	5.672	117	11797	5.066	ug/l	97
39) Methylcyclohexane	7.373	83	14472	4.711	ug/l	96
40) Benzene	6.038	78	37687	5.079	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044869.D
 Acq On : 10 Feb 2025 10:48
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 03:36:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:33:20 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.928	41	6648	4.699	ug/l	96
42) 1,2-Dichloroethane	6.086	62	11789	4.985	ug/l	100
43) Isopropyl Acetate	6.342	43	19803	4.640	ug/l	99
44) Trichloroethene	7.123	130	8614	5.079	ug/l	95
45) 1,2-Dichloropropane	7.428	63	8976	4.863	ug/l	98
46) Dibromomethane	7.586	93	6210	4.851	ug/l	95
47) Bromodichloromethane	7.818	83	12173	4.911	ug/l	94
48) Methyl methacrylate	7.702	41	9298	4.620	ug/l	98
49) 1,4-Dioxane	7.678	88	4365	101.099	ug/l	98
51) 4-Methyl-2-Pentanone	8.574	43	65064	25.076	ug/l	100
52) Toluene	8.720	92	22090	4.999	ug/l	96
53) t-1,3-Dichloropropene	8.976	75	11413	4.550	ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	12943	4.628	ug/l #	88
55) 1,1,2-Trichloroethane	9.153	97	8662	5.099	ug/l	98
56) Ethyl methacrylate	9.116	69	12351	4.502	ug/l	96
57) 1,3-Dichloropropane	9.305	76	14839	4.993	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	31498	23.382	ug/l	99
59) 2-Hexanone	9.433	43	45538	24.359	ug/l	99
60) Dibromochloromethane	9.519	129	8668	4.771	ug/l	99
61) 1,2-Dibromoethane	9.610	107	8353	4.852	ug/l	96
64) Tetrachloroethene	9.269	164	6803	4.934	ug/l	95
65) Chlorobenzene	10.079	112	23903	5.090	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.159	131	7380	4.883	ug/l	97
67) Ethyl Benzene	10.189	91	40945	4.941	ug/l	97
68) m/p-Xylenes	10.299	106	30627	10.019	ug/l	100
69) o-Xylene	10.640	106	15761	5.139	ug/l	98
70) Styrene	10.653	104	24576	4.973	ug/l	99
71) Bromoform	10.799	173	5391	4.779	ug/l #	97
73) Isopropylbenzene	10.957	105	38315	4.983	ug/l	100
74) N-amyl acetate	10.842	43	16653	4.786	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	13394	5.069	ug/l	97
76) 1,2,3-Trichloropropane	11.238	75	11011m	5.201	ug/l	
77) Bromobenzene	11.195	156	8789	5.042	ug/l	97
78) n-propylbenzene	11.305	91	43923	4.949	ug/l	99
79) 2-Chlorotoluene	11.360	91	27311	5.007	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	31761	5.090	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	3303	4.013	ug/l	87
82) 4-Chlorotoluene	11.451	91	30138	4.994	ug/l	99
83) tert-Butylbenzene	11.713	119	31992	5.068	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	31053	5.042	ug/l	98
85) sec-Butylbenzene	11.890	105	38437	4.917	ug/l	98
86) p-Isopropyltoluene	12.006	119	30835	4.905	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	15935	4.971	ug/l	95
88) 1,4-Dichlorobenzene	12.036	146	16347	5.043	ug/l	95
89) n-Butylbenzene	12.329	91	25747	4.630	ug/l	97
90) Hexachloroethane	12.536	117	5620	4.775	ug/l	94
91) 1,2-Dichlorobenzene	12.335	146	16362	5.193	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	2254	4.674	ug/l	97
93) 1,2,4-Trichlorobenzene	13.585	180	8923	4.680	ug/l	99
94) Hexachlorobutadiene	13.719	225	3595	4.750	ug/l	99
95) Naphthalene	13.774	128	32776	4.756	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	9093	4.733	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044869.D
Acq On : 10 Feb 2025 10:48
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 03:36:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:33:20 2025
Response via : Initial Calibration

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

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

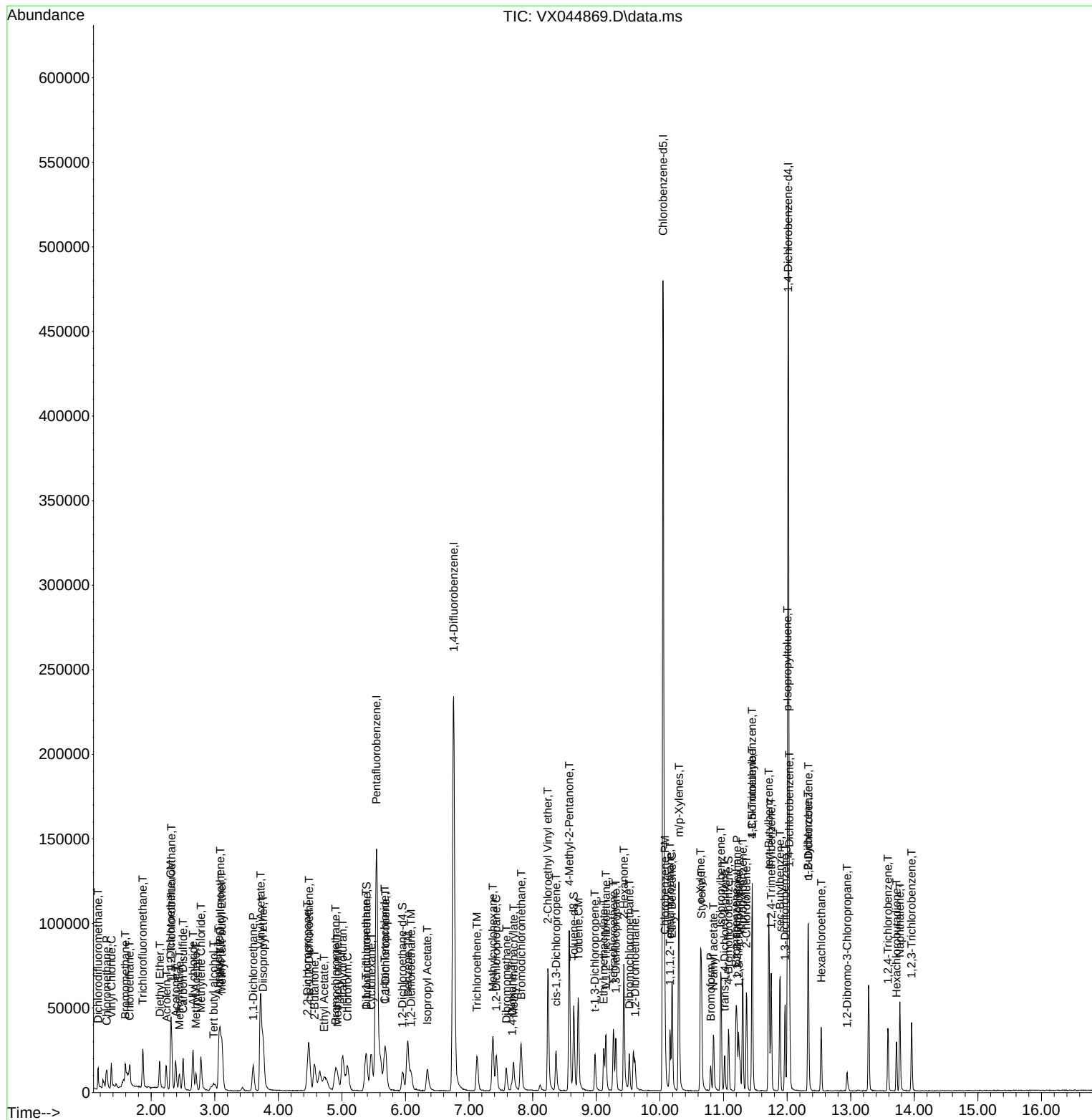
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044869.D
Acq On : 10 Feb 2025 10:48
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

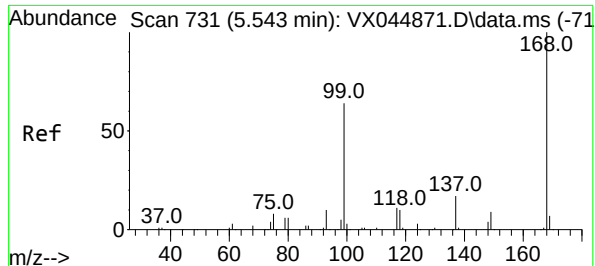
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

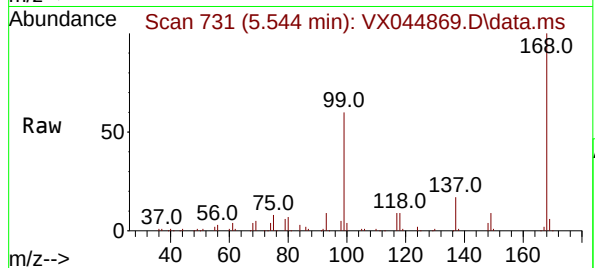
Quant Time: Feb 11 03:36:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:33:20 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. 0.001 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

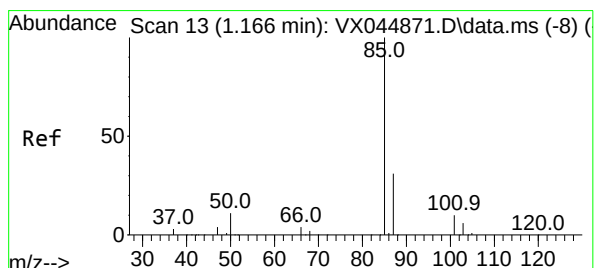
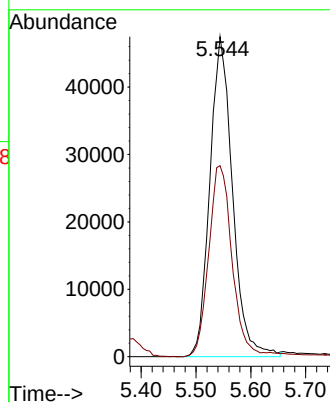
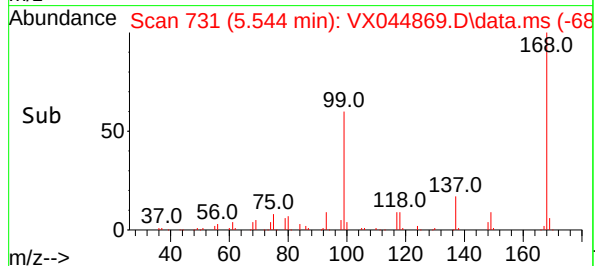
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion:168 Resp: 13610
Ion Ratio Lower Upper
168 100
99 59.7 51.2 76.8

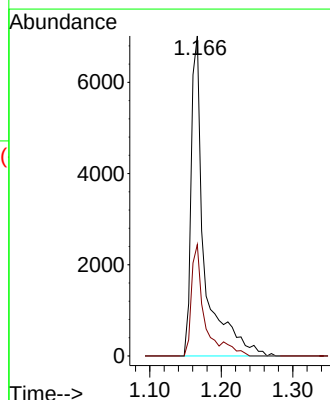
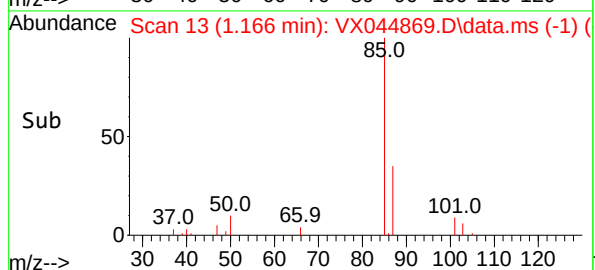
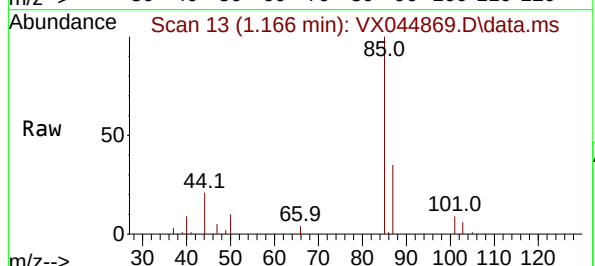
Manual Integrations
APPROVED

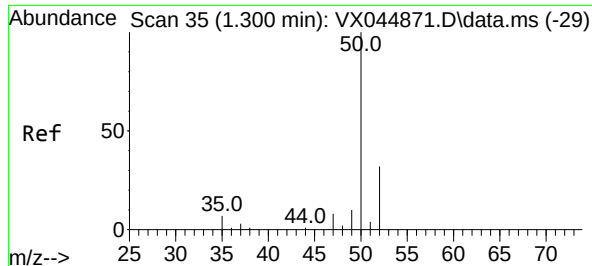
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#2
Dichlorodifluoromethane
Concen: 4.772 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 85 Resp: 9109
Ion Ratio Lower Upper
85 100
87 34.8 15.8 47.3





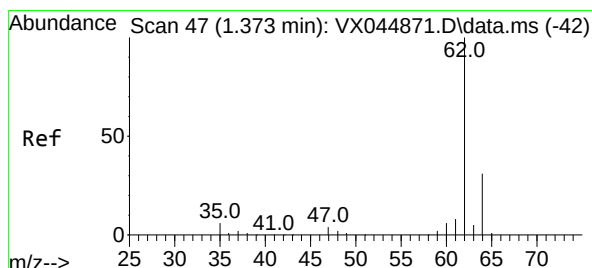
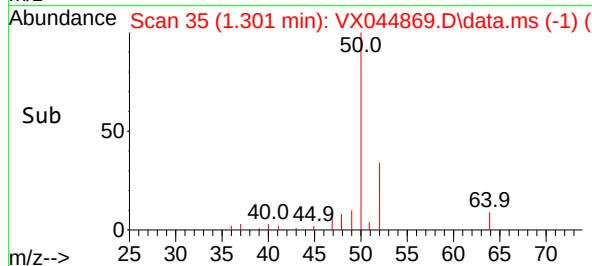
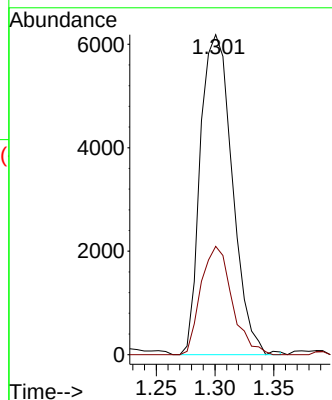
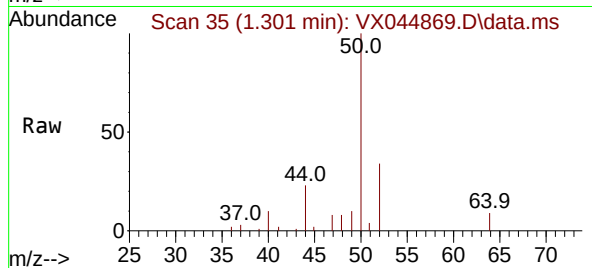
#3
Chloromethane
Concen: 5.041 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion: 50 Resp: 1171
Ion Ratio Lower Upper
50 100
52 33.8 25.9 38.9

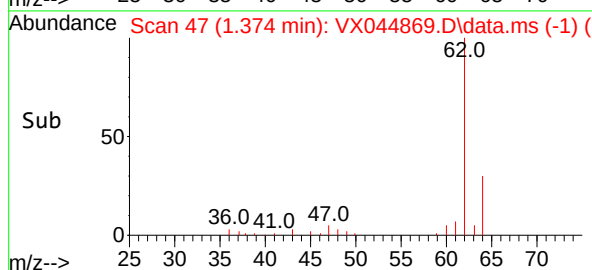
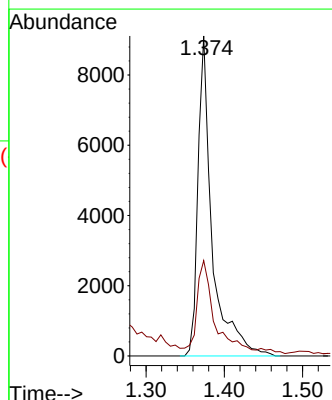
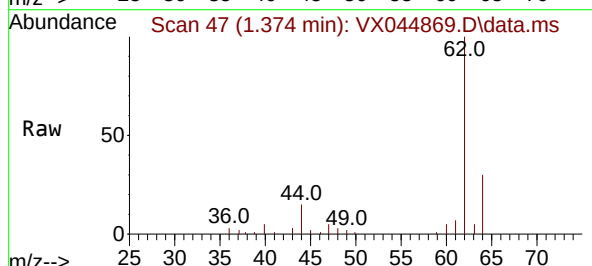
Manual Integrations
APPROVED

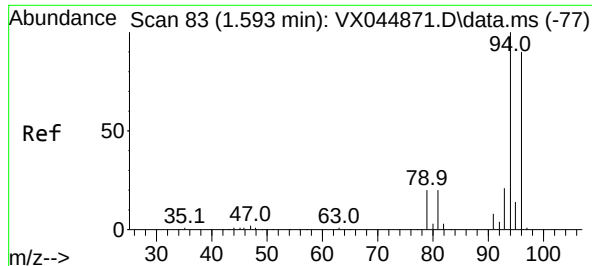
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#4
Vinyl Chloride
Concen: 5.113 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 62 Resp: 11509
Ion Ratio Lower Upper
62 100
64 28.4 25.4 38.0





#5

Bromomethane

Concen: 5.005 ug/l

RT: 1.593 min Scan# 81

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 94 Resp: 337

Ion Ratio Lower Upper

94 100

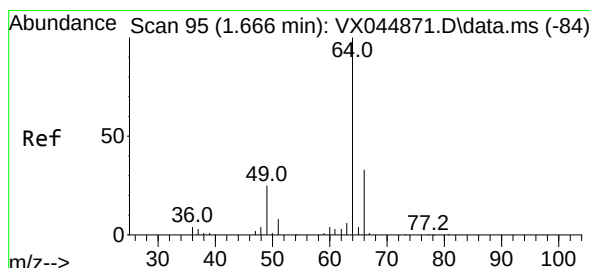
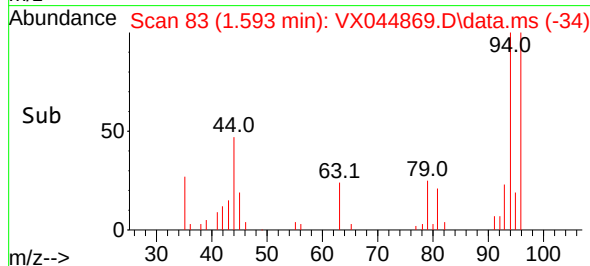
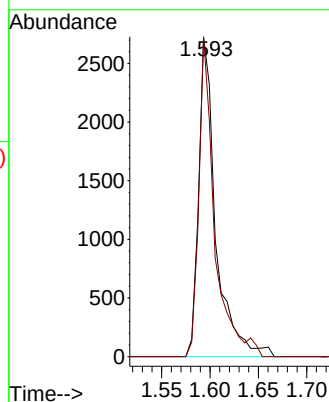
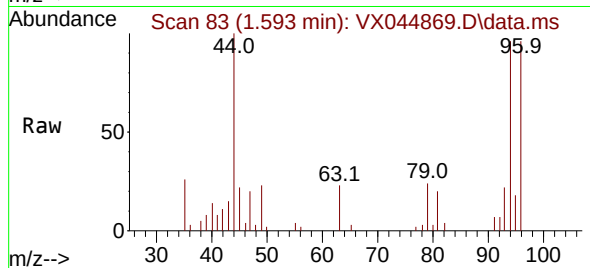
96 100.2 71.6 107.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#6

Chloroethane

Concen: 4.973 ug/l m

RT: 1.660 min Scan# 94

Delta R.T. -0.006 min

Lab File: VX044869.D

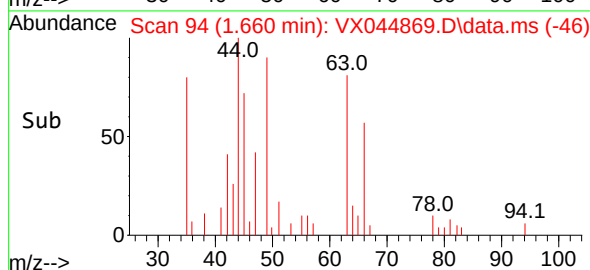
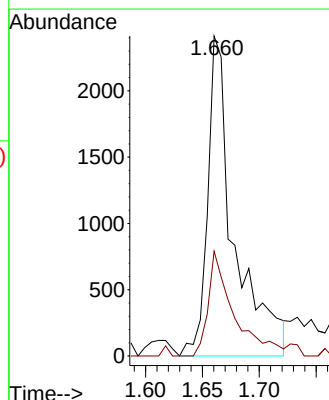
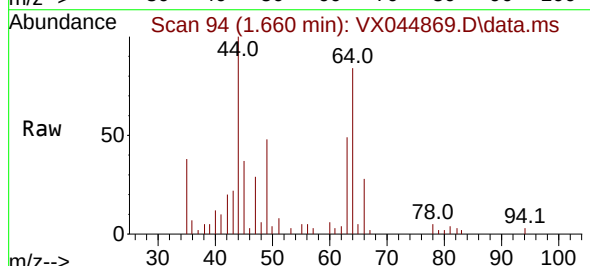
Acq: 10 Feb 2025 10:48

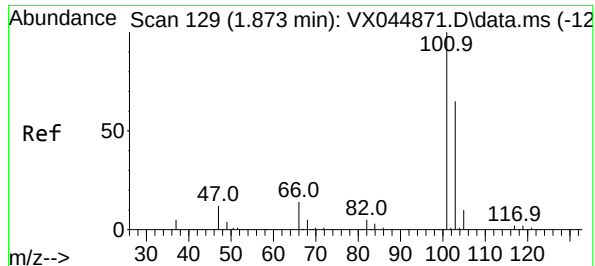
Tgt Ion: 64 Resp: 3918

Ion Ratio Lower Upper

64 100

66 32.8 25.9 38.9





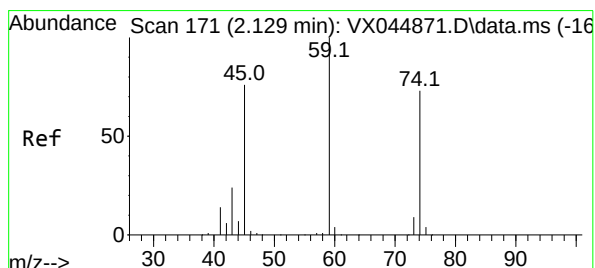
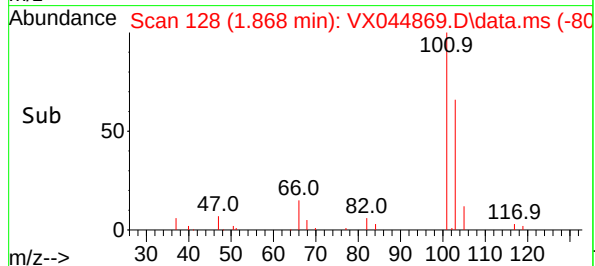
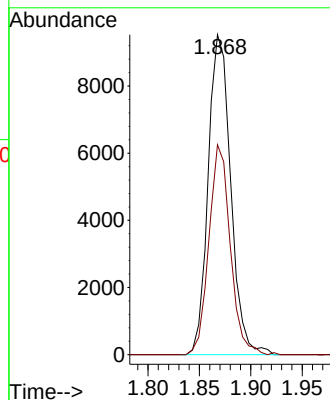
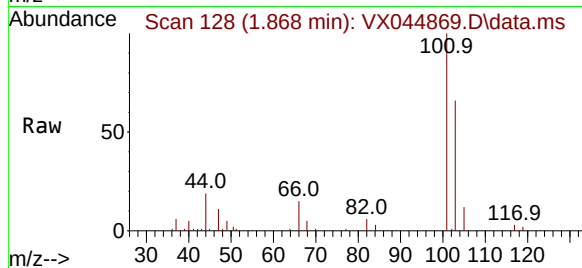
#7
Trichlorofluoromethane
Concen: 5.096 ug/l
RT: 1.868 min Scan# 11
Delta R.T. -0.005 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 14500
Ion Ratio Lower Upper
101 100
103 65.6 52.4 78.6

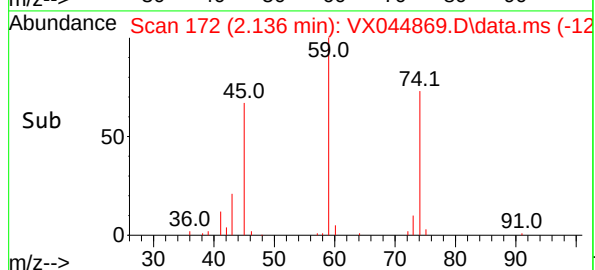
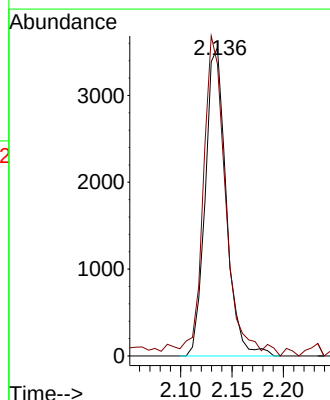
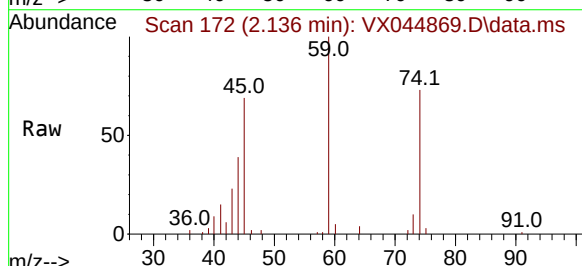
Manual Integrations
APPROVED

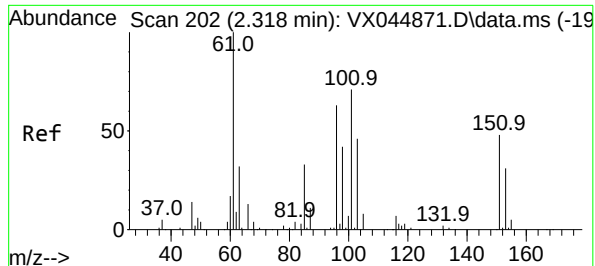
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#8
Diethyl Ether
Concen: 4.904 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.007 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 74 Resp: 5062
Ion Ratio Lower Upper
74 100
45 112.2 51.1 153.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.120 ug/l

RT: 2.319 min Scan# 202

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

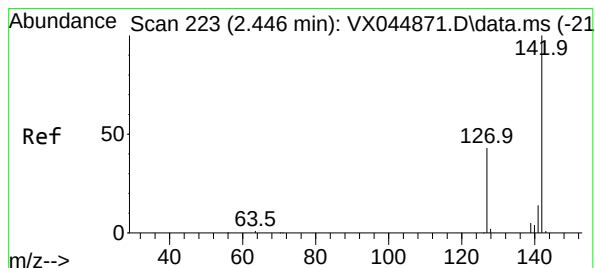
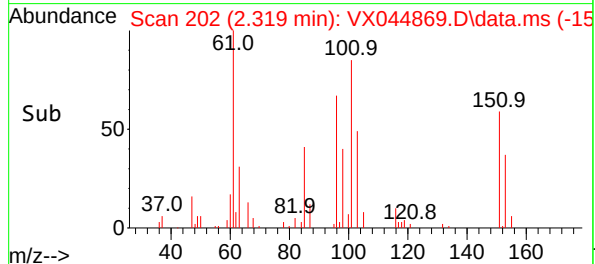
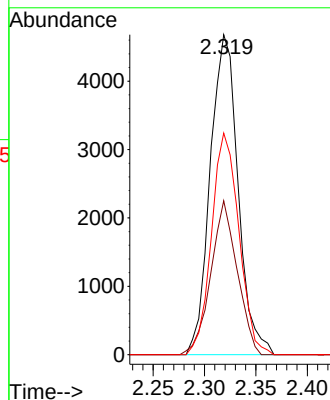
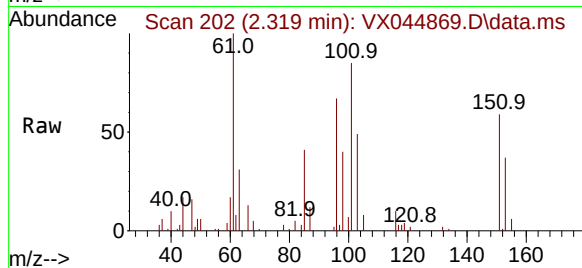
Tgt Ion:	101	Resp:	880
Ion	Ratio	Lower	Upper
101	100		
85	45.5	35.7	53.5
151	68.3	56.0	84.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#10

Methyl Iodide

Concen: 4.591 ug/l

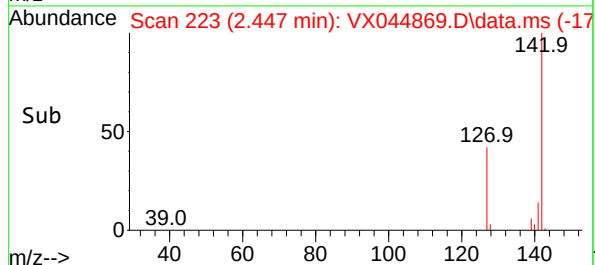
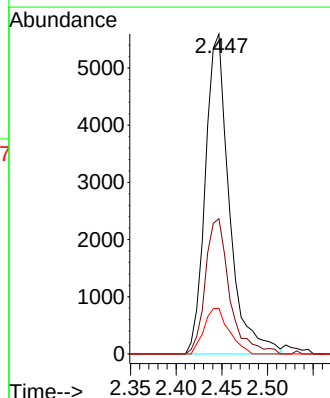
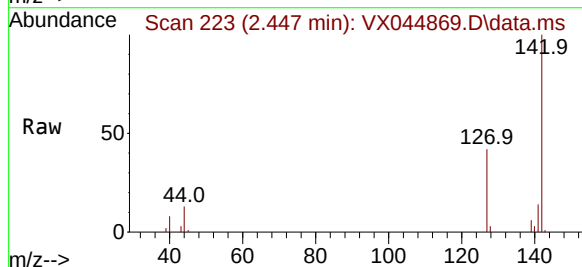
RT: 2.447 min Scan# 223

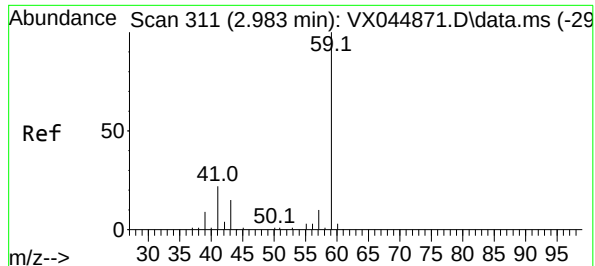
Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Tgt Ion:	142	Resp:	10233
Ion	Ratio	Lower	Upper
142	100		
127	42.7	34.3	51.5
141	14.8	11.4	17.2





#11

Tert butyl alcohol

Concen: 27.175 ug/l

RT: 2.983 min Scan# 311

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 1004

Ion Ratio Lower Upper

59 100

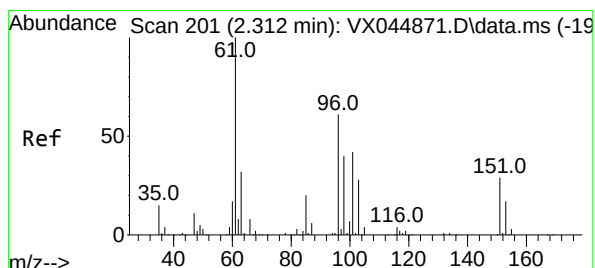
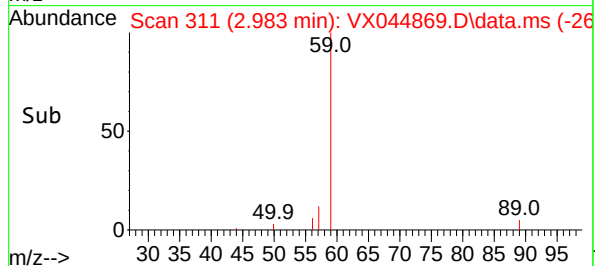
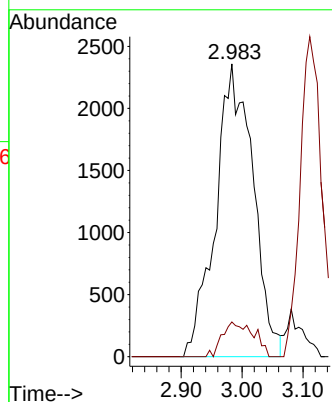
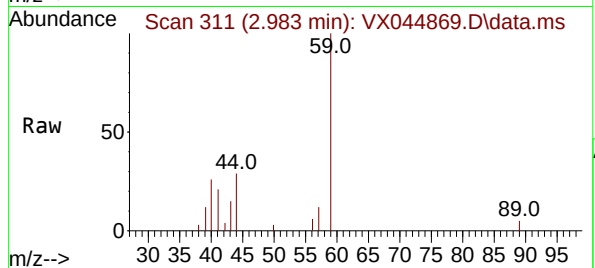
57 9.9 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#12

1,1-Dichloroethene

Concen: 4.955 ug/l

RT: 2.307 min Scan# 200

Delta R.T. -0.006 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

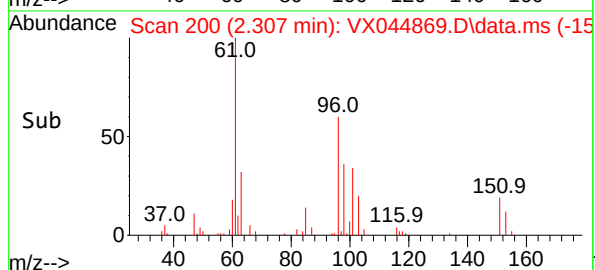
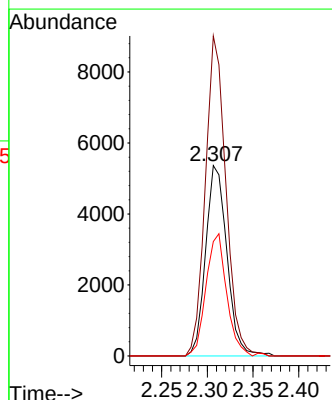
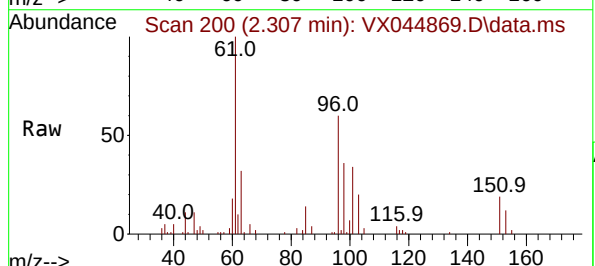
Tgt Ion: 96 Resp: 8692

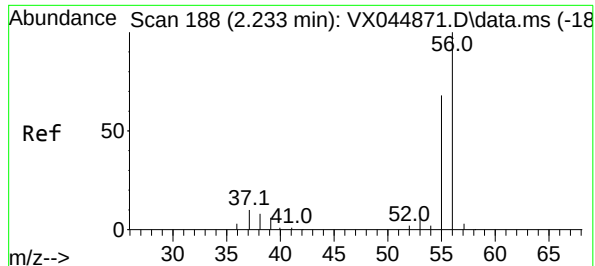
Ion Ratio Lower Upper

96 100

61 168.0 130.2 195.4

98 60.1 52.2 78.4





#13

Acrolein

Concen: 25.567 ug/l

RT: 2.239 min Scan# 188

Delta R.T. 0.006 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 9750

Ion Ratio Lower Upper

56 100

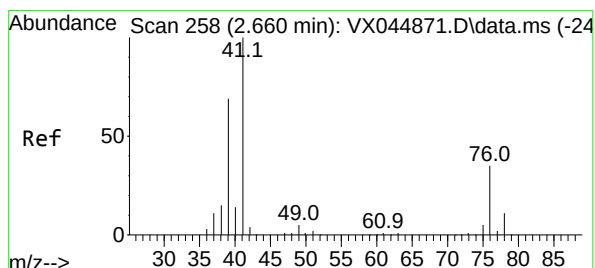
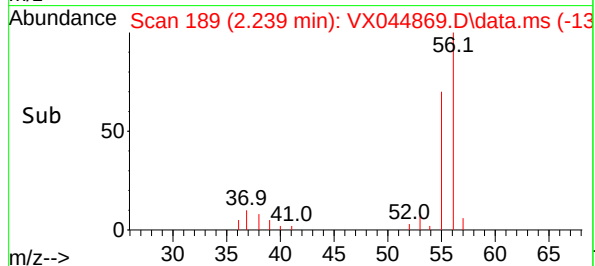
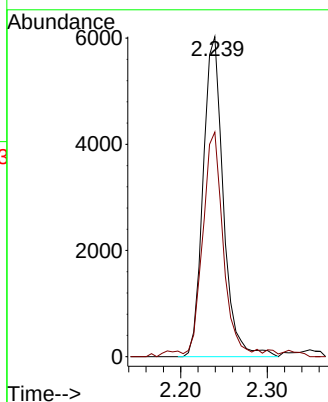
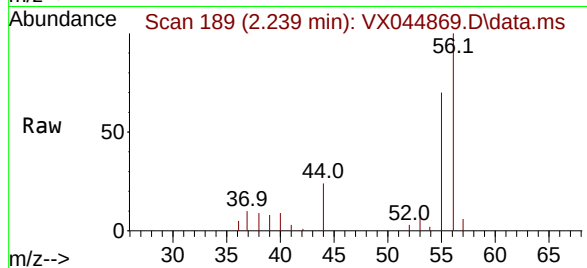
55 71.6 55.7 83.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#14

Allyl chloride

Concen: 4.936 ug/l

RT: 2.660 min Scan# 258

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

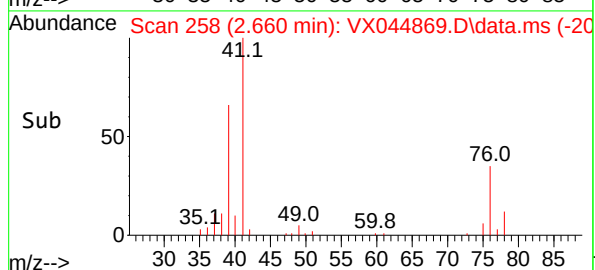
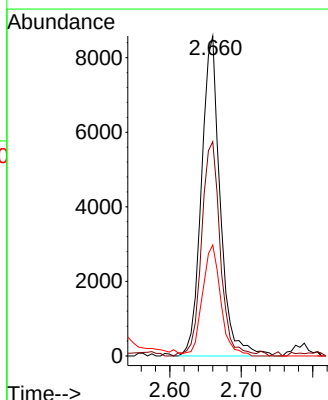
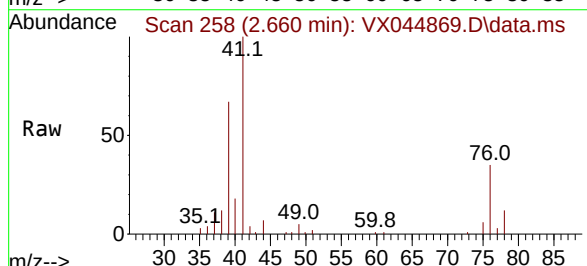
Tgt Ion: 41 Resp: 15649

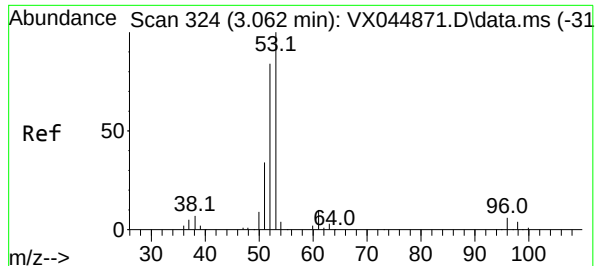
Ion Ratio Lower Upper

41 100

39 66.7 51.4 77.2

76 33.9 27.0 40.4





#15

Acrylonitrile

Concen: 24.422 ug/l

RT: 3.062 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

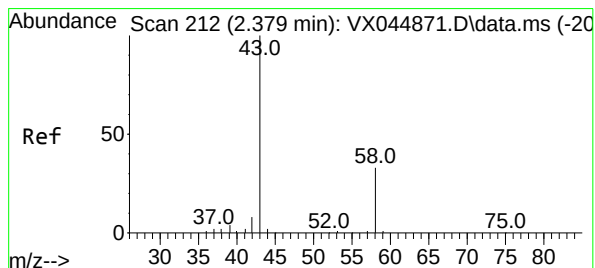
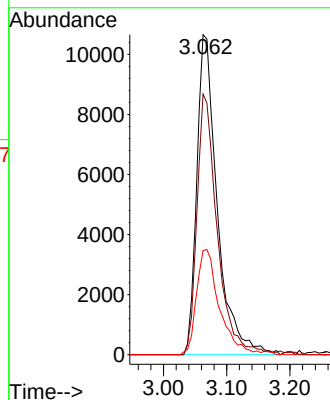
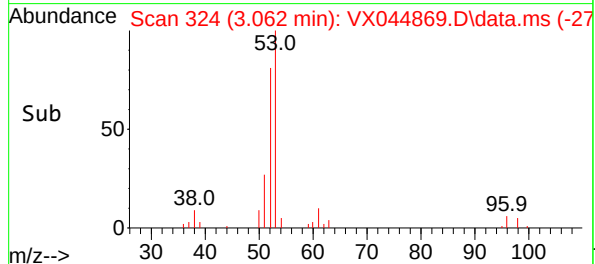
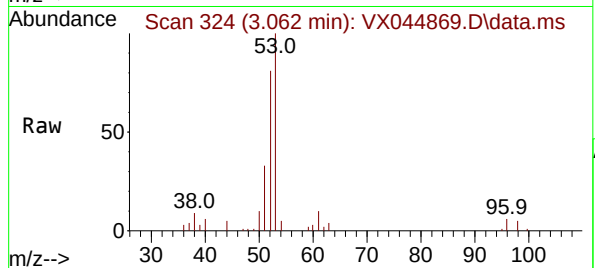
Tgt Ion:	53	Resp:	2410
Ion	Ratio	Lower	Upper
53	100		
52	80.3	65.0	97.6
51	36.6	28.0	42.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#16

Acetone

Concen: 24.817 ug/l

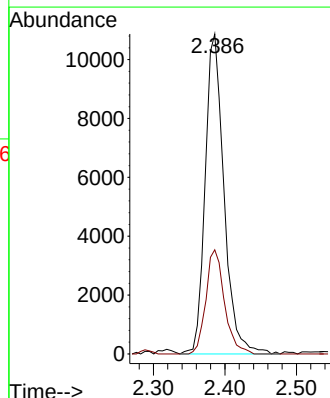
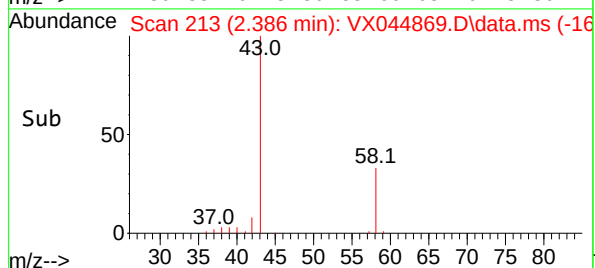
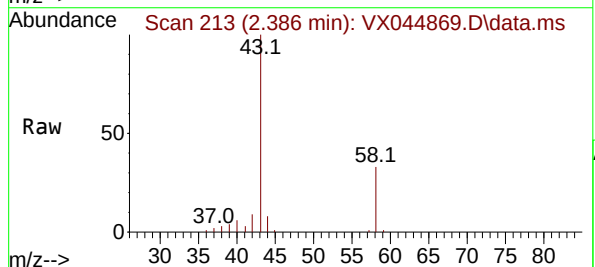
RT: 2.386 min Scan# 213

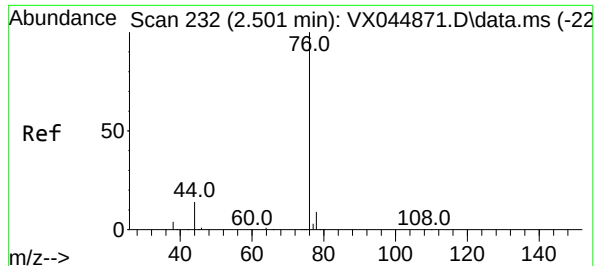
Delta R.T. 0.006 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Tgt Ion:	43	Resp:	19877
Ion	Ratio	Lower	Upper
43	100		
58	32.6	26.5	39.7





#17

Carbon Disulfide

Concen: 4.899 ug/l

RT: 2.502 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Tgt Ion: 76 Resp: 2356

Ion Ratio Lower Upper

76 100

78 9.3 7.0 10.4

Instrument :

MSVOA_X

ClientSampleId :

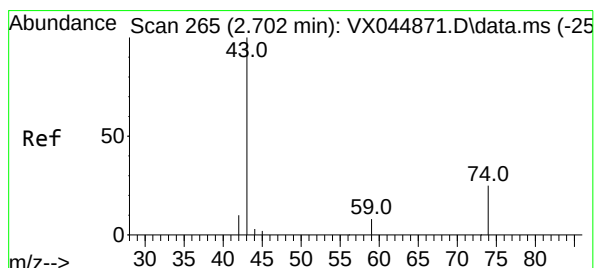
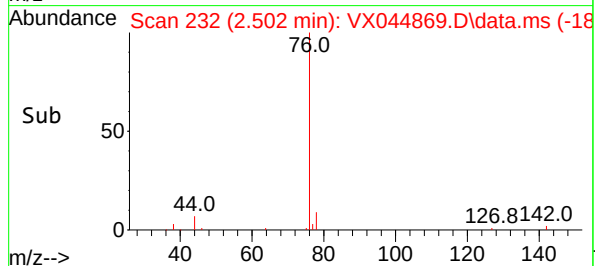
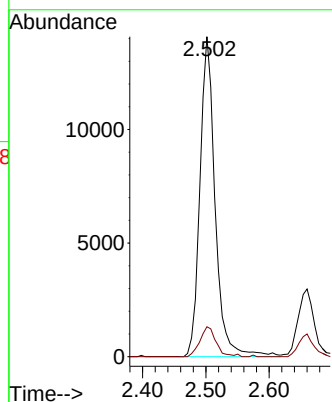
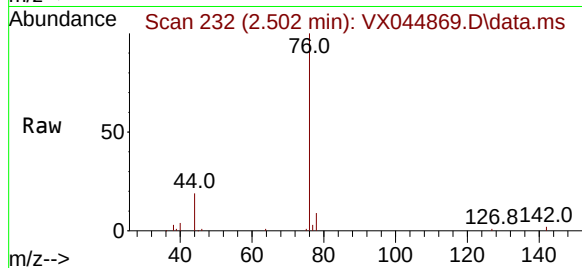
VSTDIC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#18

Methyl Acetate

Concen: 4.850 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX044869.D

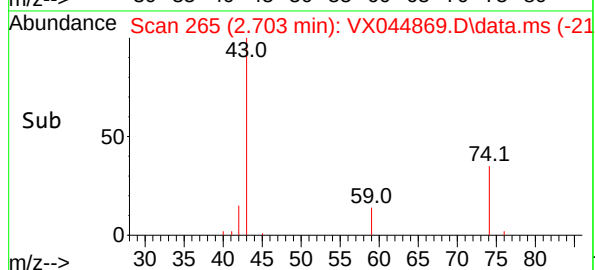
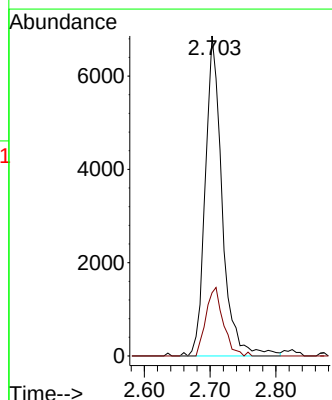
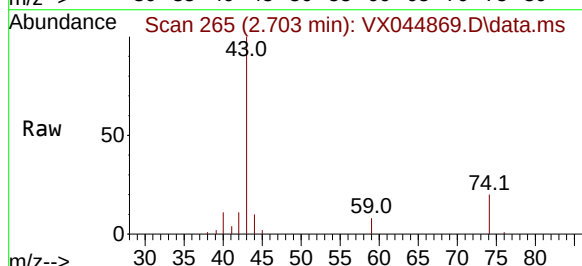
Acq: 10 Feb 2025 10:48

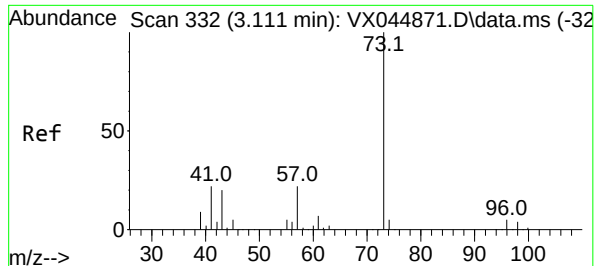
Tgt Ion: 43 Resp: 12257

Ion Ratio Lower Upper

43 100

74 22.0 18.9 28.3





#19

Methyl tert-butyl Ether

Concen: 5.034 ug/l

RT: 3.111 min Scan# 311

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 73 Resp: 28100

Ion Ratio Lower Upper

73 100

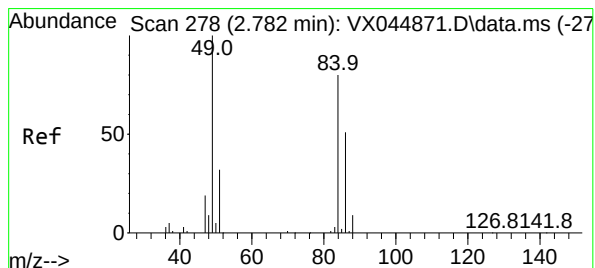
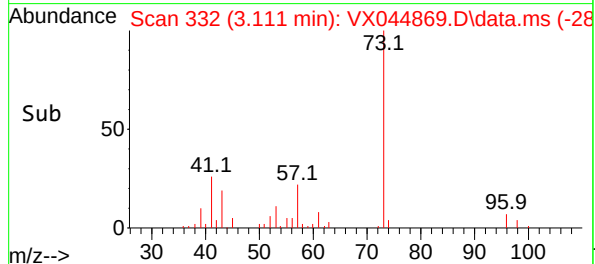
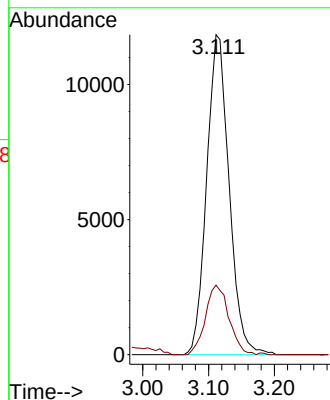
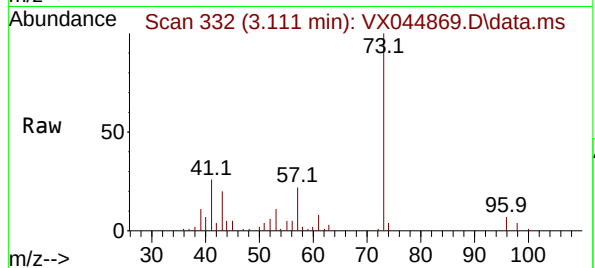
57 21.8 17.9 26.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#20

Methylene Chloride

Concen: 4.973 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Tgt Ion: 84 Resp: 9757

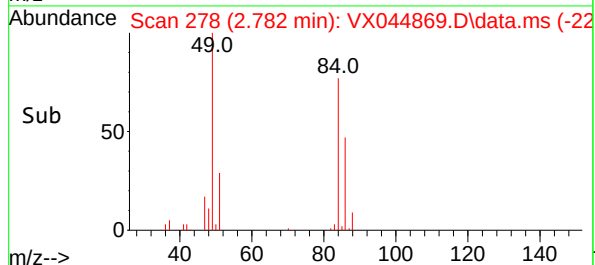
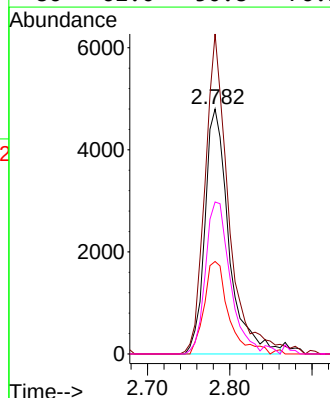
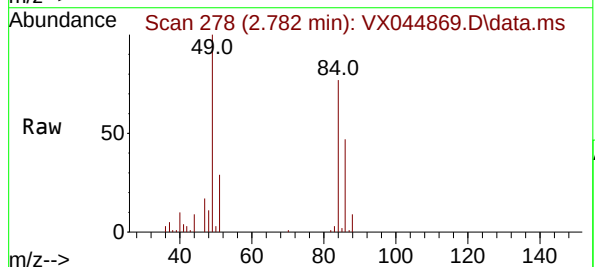
Ion Ratio Lower Upper

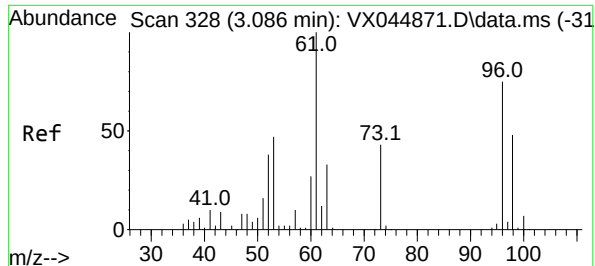
84 100

49 130.7 100.1 150.1

51 37.7 31.7 47.5

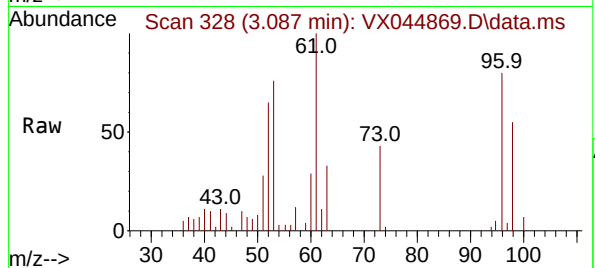
86 62.0 50.8 76.2





#21
trans-1,2-Dichloroethene
Concen: 4.906 ug/l
RT: 3.087 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

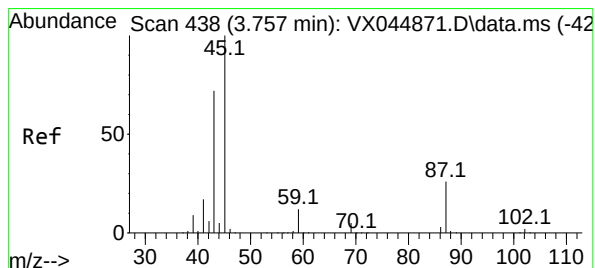
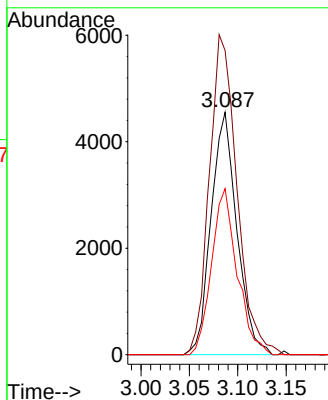
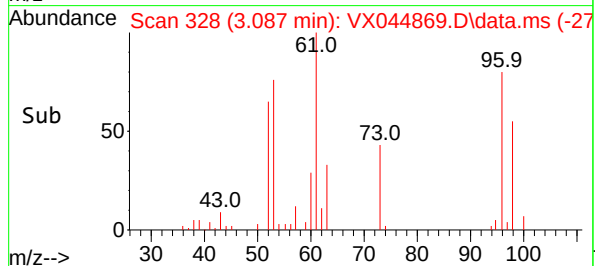
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion: 96 Resp: 8470
Ion Ratio Lower Upper
96 100
61 125.5 106.0 159.0
98 68.5 50.6 76.0

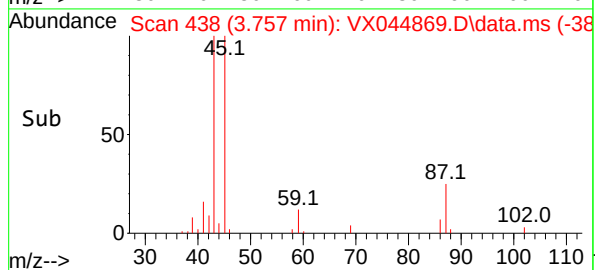
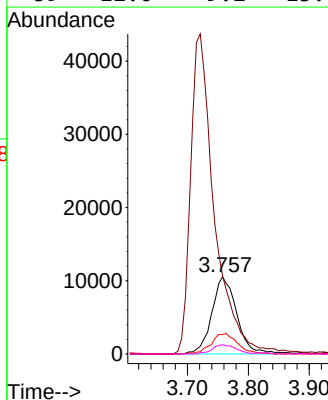
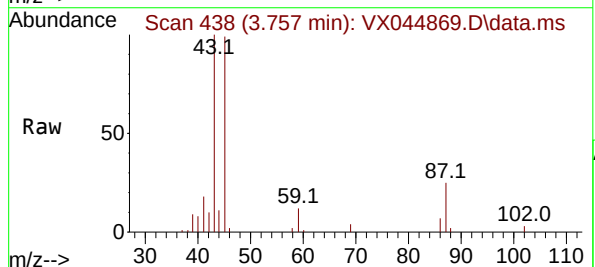
Manual Integrations
APPROVED

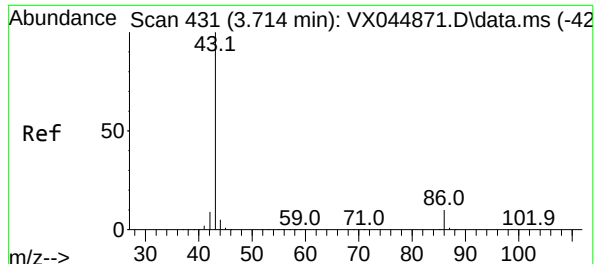
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#22
Diisopropyl ether
Concen: 4.963 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 45 Resp: 29768
Ion Ratio Lower Upper
45 100
43 97.8 58.0 87.0#
87 25.2 20.7 31.1
59 12.0 9.2 13.8





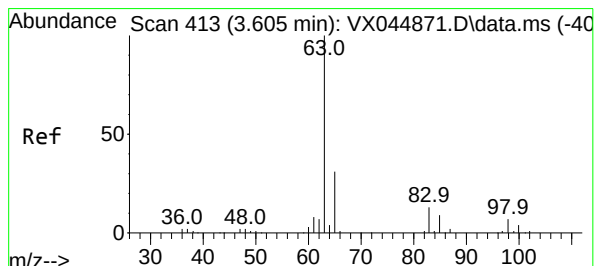
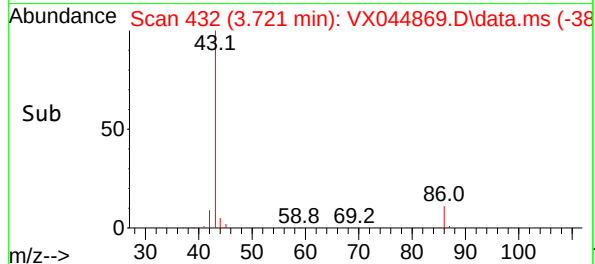
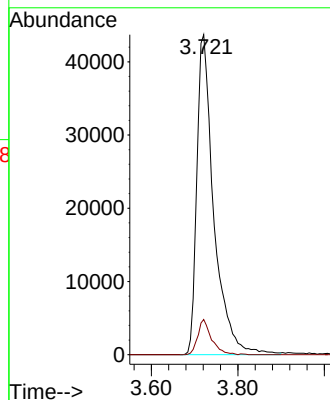
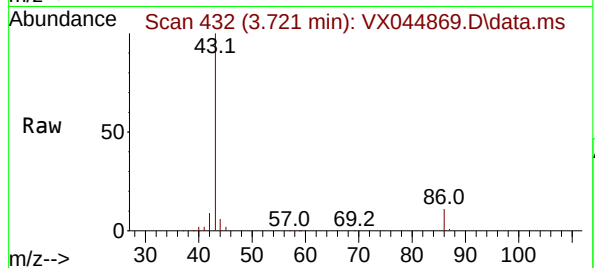
#23
Vinyl Acetate
Concen: 24.358 ug/l
RT: 3.721 min Scan# 411
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 119108
Ion Ratio Lower Upper
43 100
86 11.0 8.3 12.5

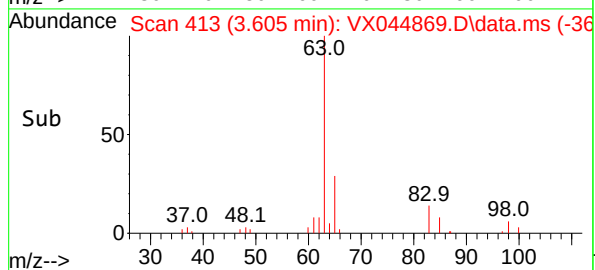
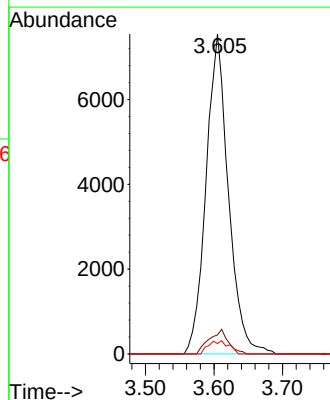
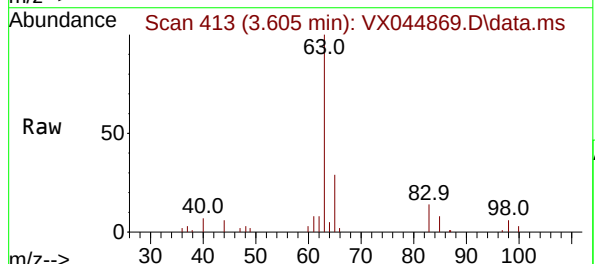
Manual Integrations
APPROVED

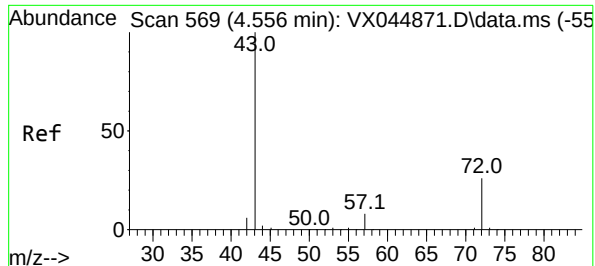
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#24
1,1-Dichloroethane
Concen: 5.099 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 63 Resp: 17113
Ion Ratio Lower Upper
63 100
98 5.9 3.3 9.9
100 3.2 2.1 6.5





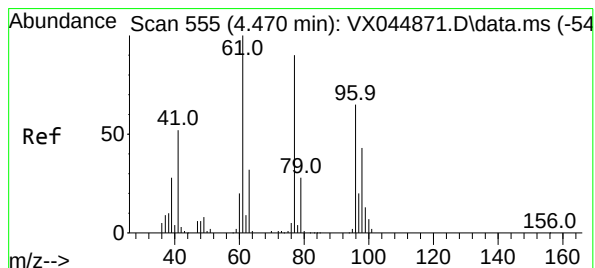
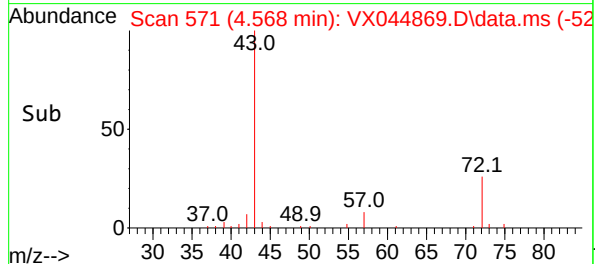
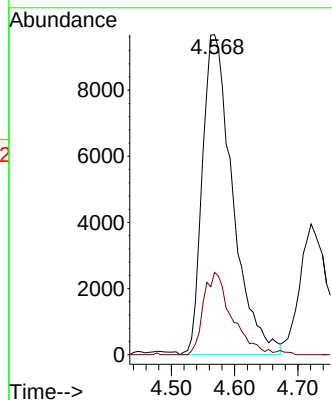
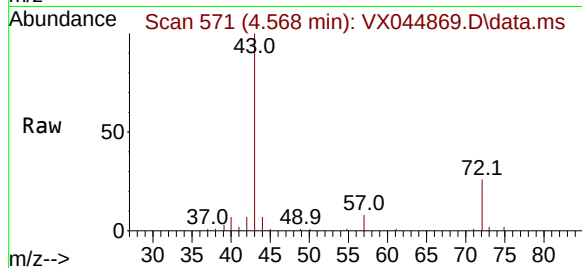
#25
2-Butanone
Concen: 24.698 ug/l
RT: 4.568 min Scan# 51
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion: 43 Resp: 3212
Ion Ratio Lower Upper
43 100
72 25.7 21.2 31.8

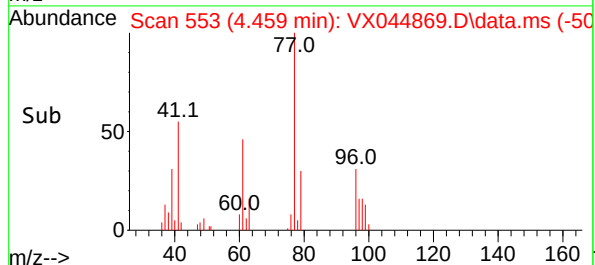
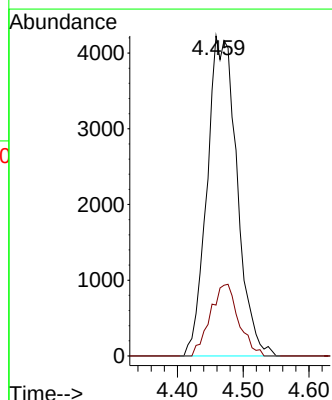
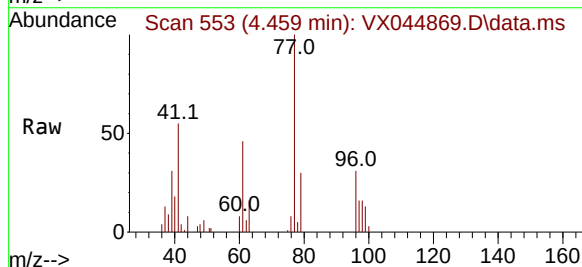
Manual Integrations
APPROVED

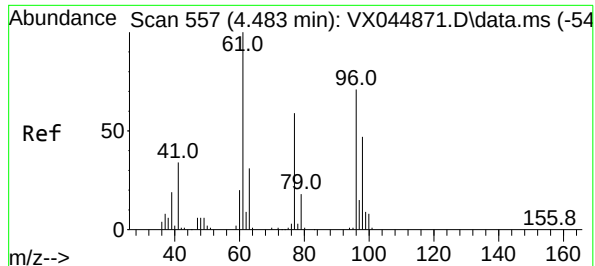
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#26
2,2-Dichloropropane
Concen: 5.022 ug/l
RT: 4.459 min Scan# 553
Delta R.T. -0.012 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 77 Resp: 13365
Ion Ratio Lower Upper
77 100
97 21.2 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 5.141 ug/l

RT: 4.483 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 96 Resp: 1066

Ion Ratio Lower Upper

96 100

61 140.8 0.0 294.0

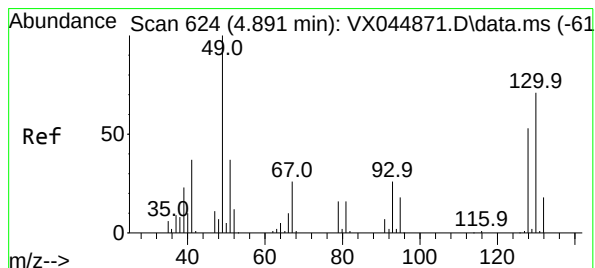
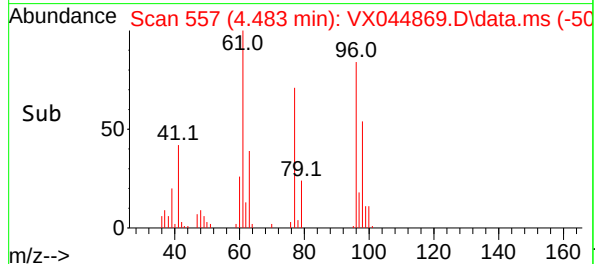
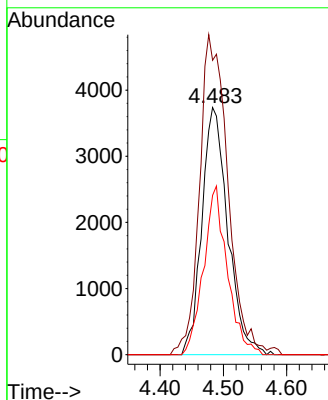
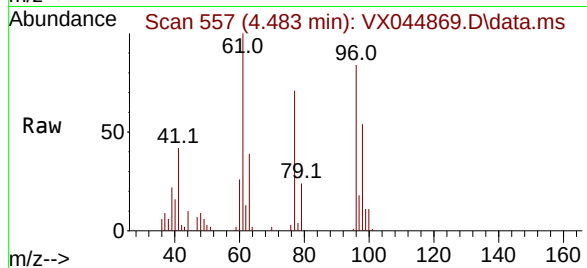
98 62.4 0.0 131.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#28

Bromochloromethane

Concen: 4.886 ug/l

RT: 4.898 min Scan# 625

Delta R.T. 0.006 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

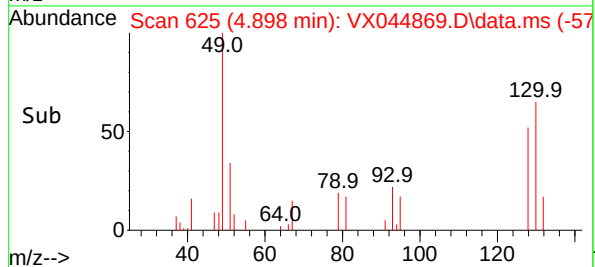
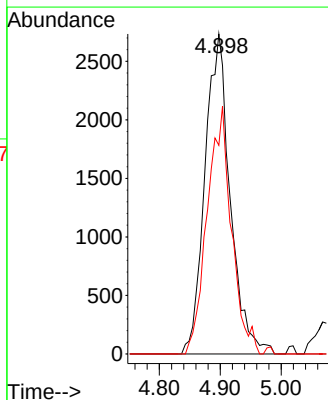
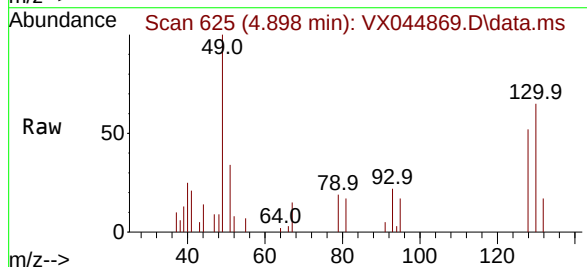
Tgt Ion: 49 Resp: 7881

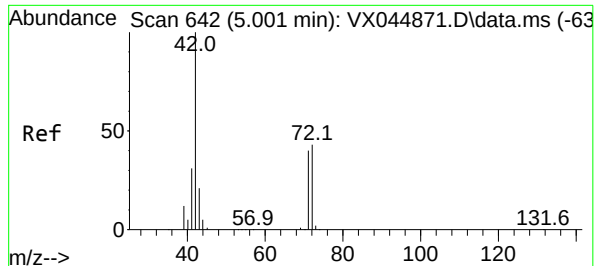
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

130 74.4 56.7 85.1





#29

Tetrahydrofuran

Concen: 24.429 ug/l

RT: 5.013 min Scan# 64

Delta R.T. 0.013 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

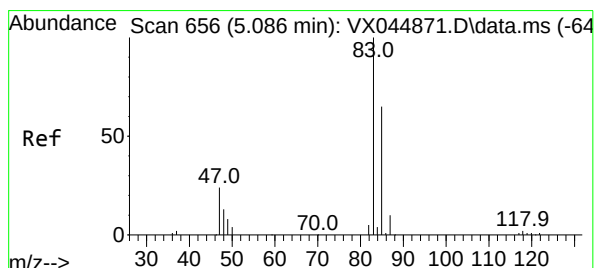
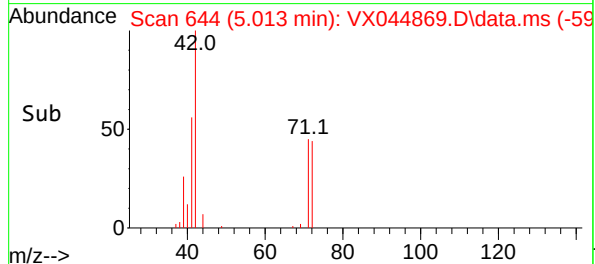
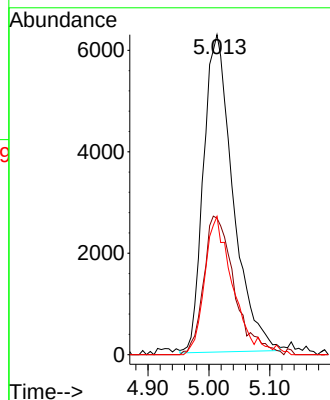
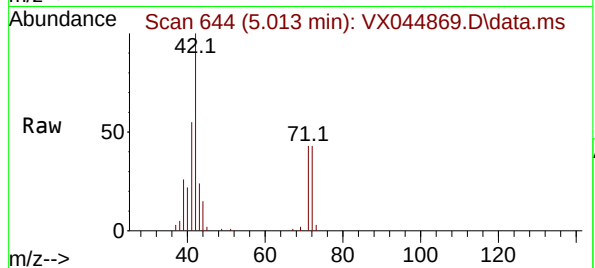
Tgt Ion:	42	Resp:	2109
Ion	Ratio	Lower	Upper
42	100		
72	45.3	35.0	52.4
71	41.6	32.6	48.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#30

Chloroform

Concen: 5.054 ug/l

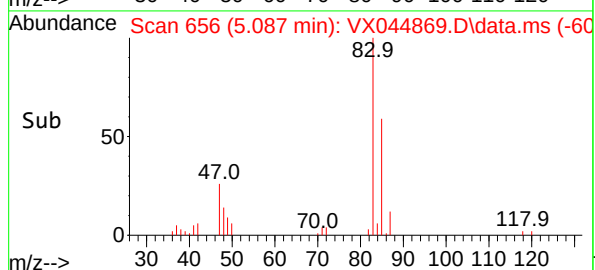
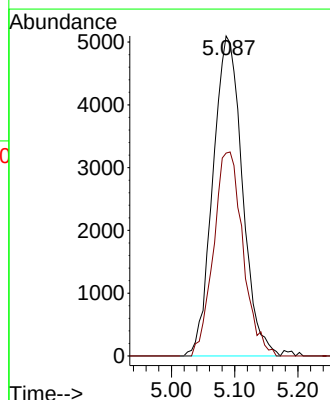
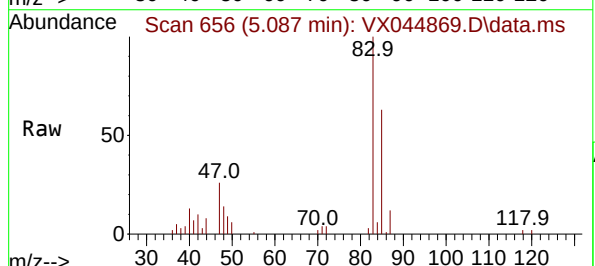
RT: 5.087 min Scan# 656

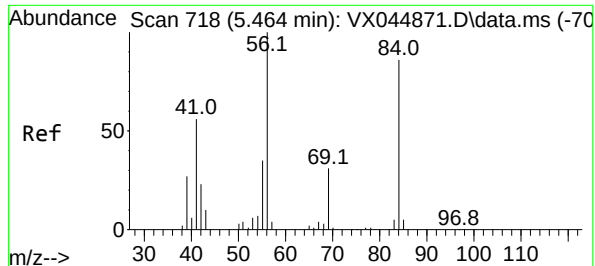
Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Tgt Ion:	83	Resp:	16449
Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.1	78.1





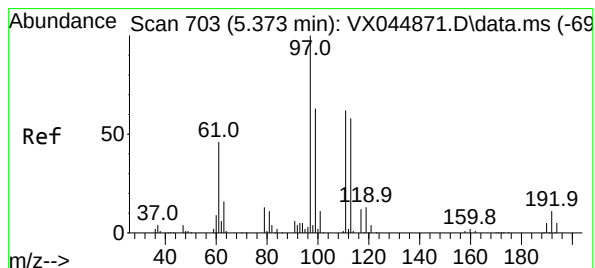
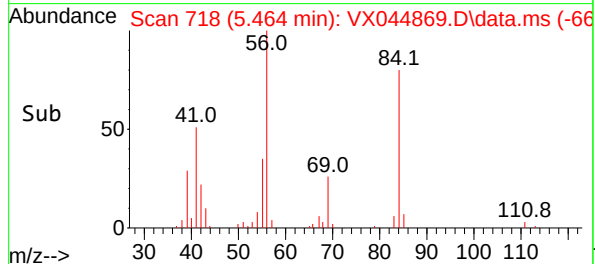
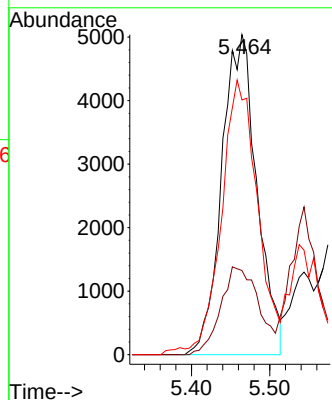
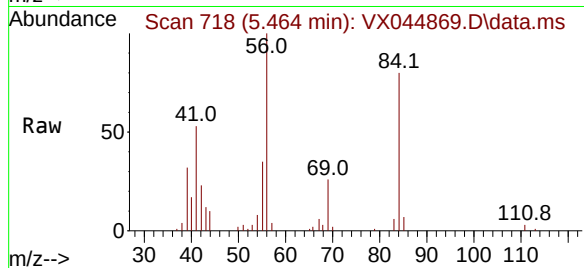
#31
Cyclohexane
Concen: 5.076 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion: 56 Resp: 1570
Ion Ratio Lower Upper
56 100
69 26.3 24.4 36.6
84 77.4 69.0 103.6

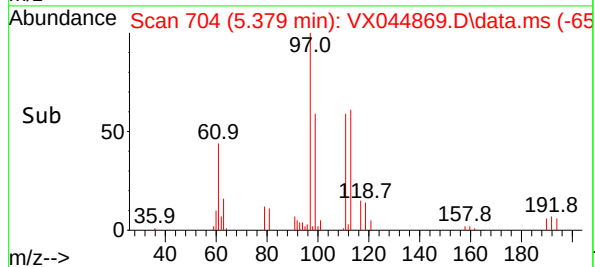
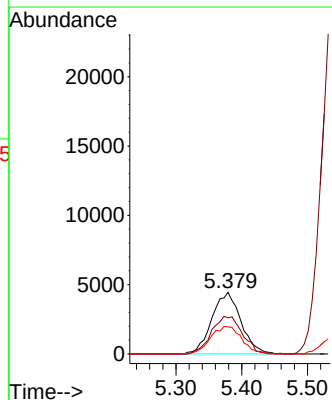
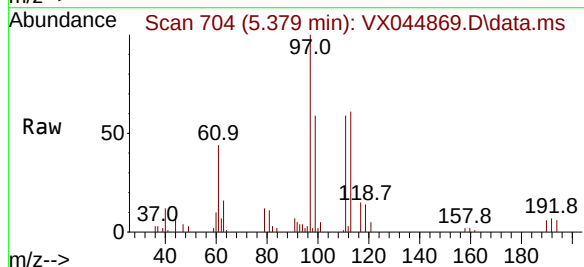
Manual Integrations
APPROVED

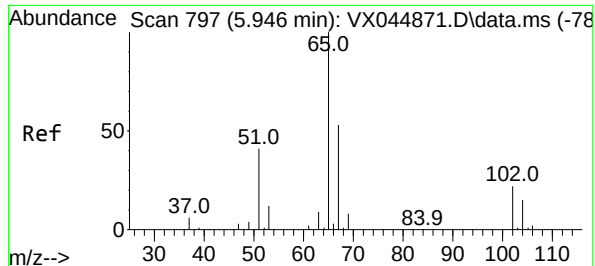
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#32
1,1,1-Trichloroethane
Concen: 4.947 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 97 Resp: 13658
Ion Ratio Lower Upper
97 100
99 65.0 51.0 76.6
61 47.3 36.6 55.0





#33

1,2-Dichloroethane-d4

Concen: 5.219 ug/l

RT: 5.952 min Scan# 79

Delta R.T. 0.006 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 1039

Ion Ratio Lower Upper

65 100

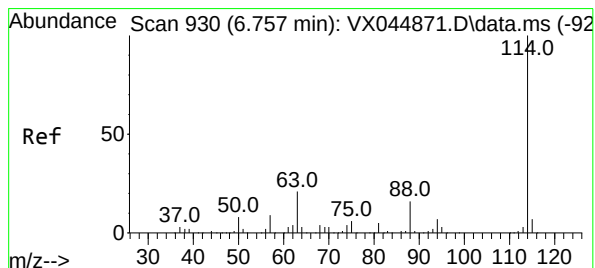
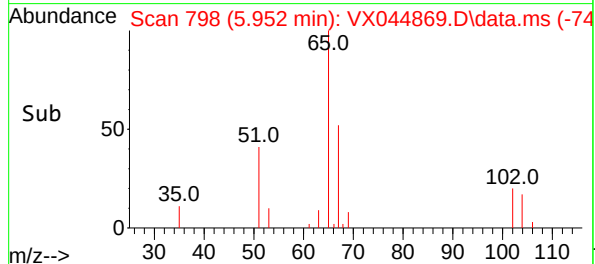
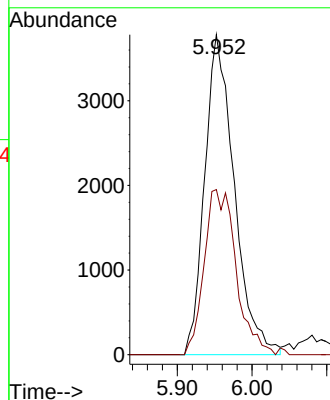
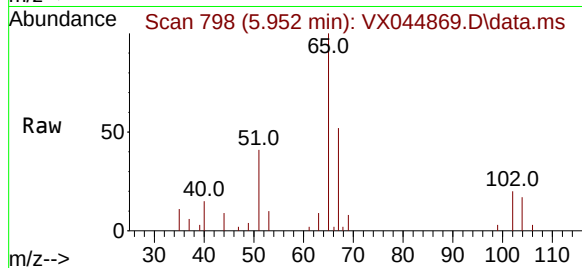
67 55.6 0.0 108.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

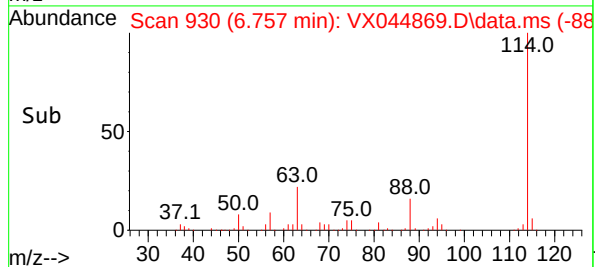
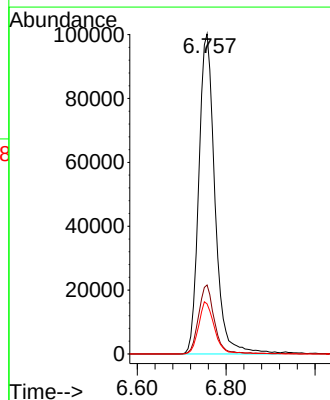
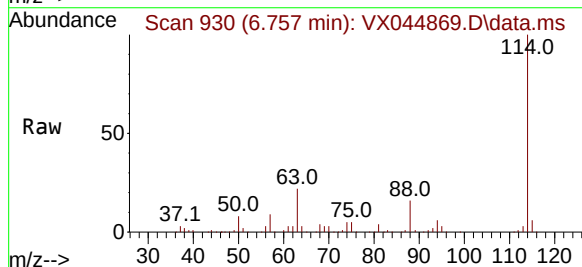
Tgt Ion:114 Resp: 253314

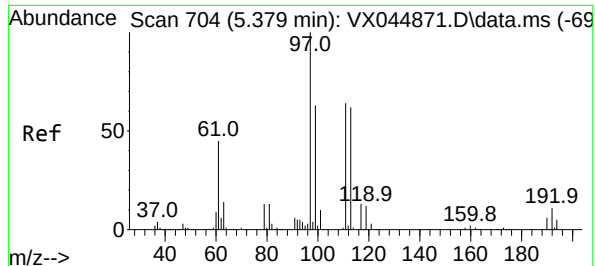
Ion Ratio Lower Upper

114 100

63 21.5 0.0 42.4

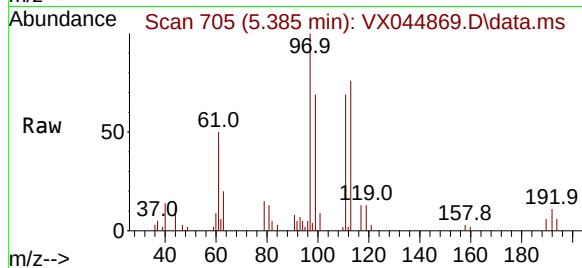
88 15.6 0.0 31.4





#35
Dibromofluoromethane
Concen: 5.150 ug/l
RT: 5.385 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

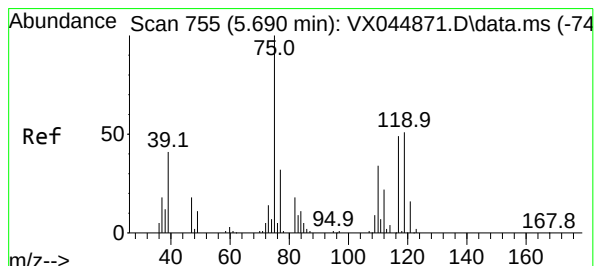
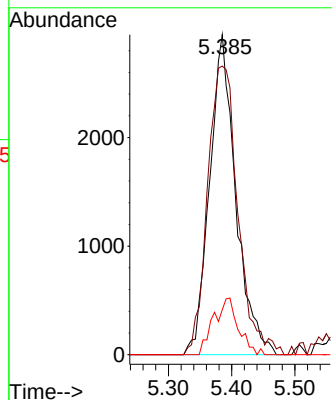
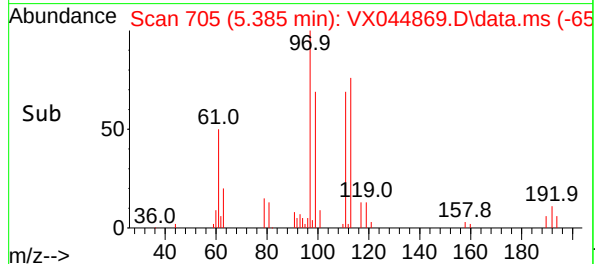
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 113 Resp: 848
Ion Ratio Lower Upper
113 100
111 104.6 83.5 125.3
192 16.7 14.4 21.6

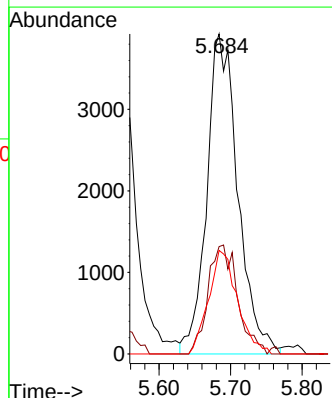
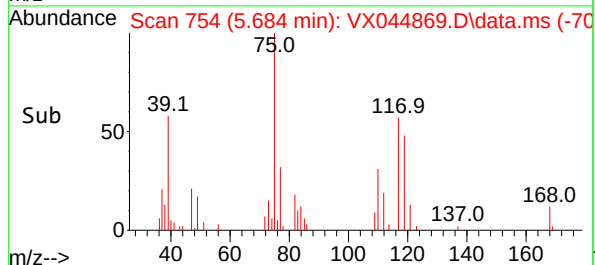
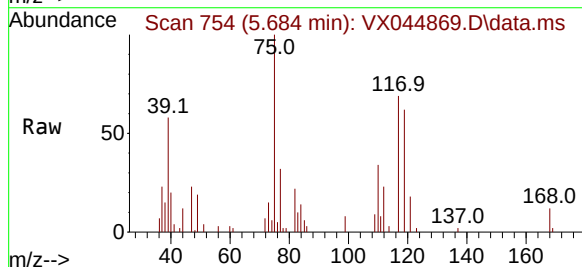
Manual Integrations
APPROVED

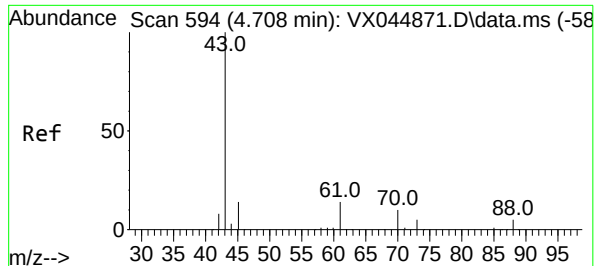
Reviewed By : John Carlone 02/11/2025
Supervised By : Mahesh Dadoda 02/11/2025



#36
1,1-Dichloropropene
Concen: 4.981 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 75 Resp: 11835
Ion Ratio Lower Upper
75 100
110 32.4 17.2 51.6
77 30.0 24.6 37.0





#37

Ethyl Acetate

Concen: 5.122 ug/l

RT: 4.721 min Scan# 596

Delta R.T. 0.013 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

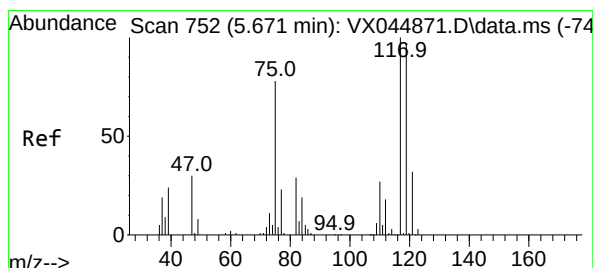
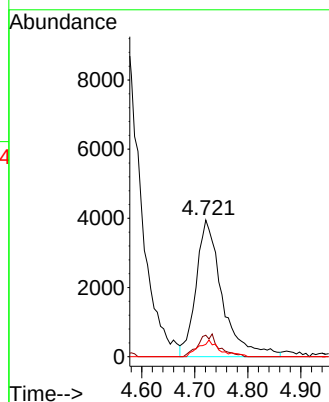
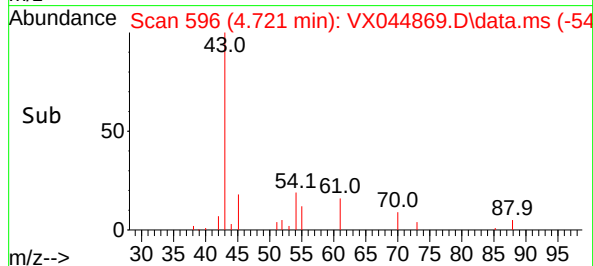
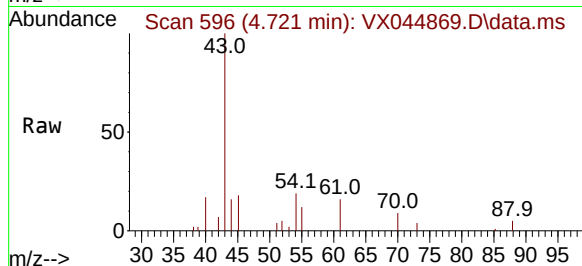
Tgt Ion:	43	Resp:	13530
Ion	Ratio	Lower	Upper
43	100		
61	13.0	11.0	16.4
70	9.8	8.2	12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#38

Carbon Tetrachloride

Concen: 5.066 ug/l

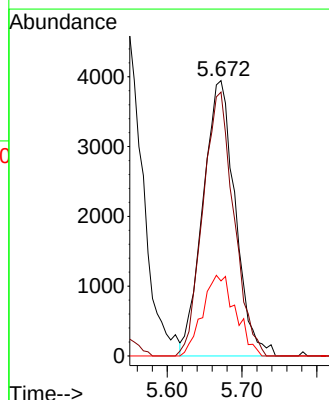
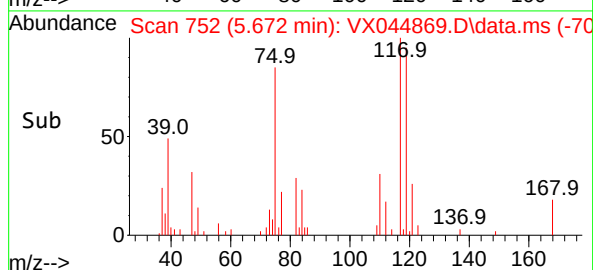
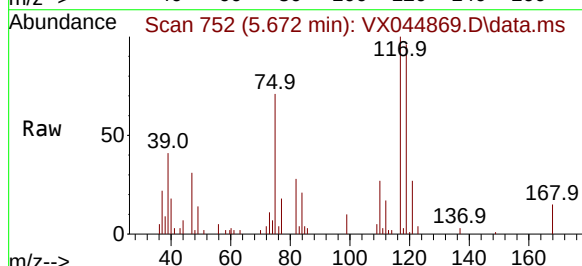
RT: 5.672 min Scan# 752

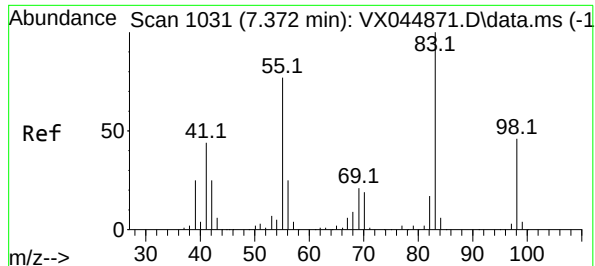
Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Tgt Ion:	117	Resp:	11797
Ion	Ratio	Lower	Upper
117	100		
119	95.8	77.5	116.3
121	27.2	25.6	38.4





#39

Methylcyclohexane

Concen: 4.711 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 83 Resp: 1447

Ion Ratio Lower Upper

83 100

55 81.7 61.3 91.9

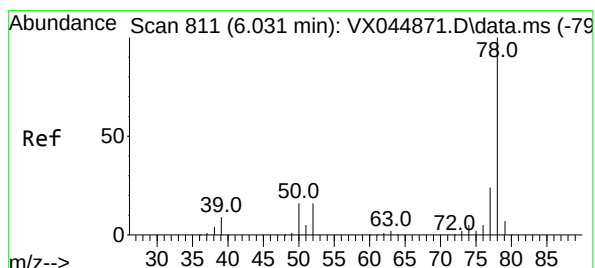
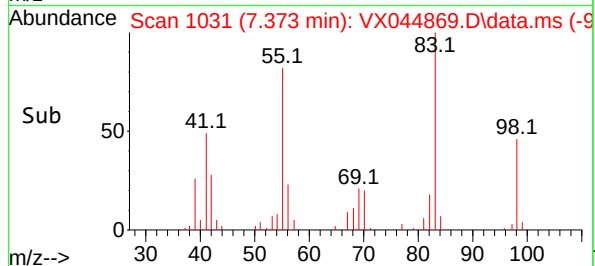
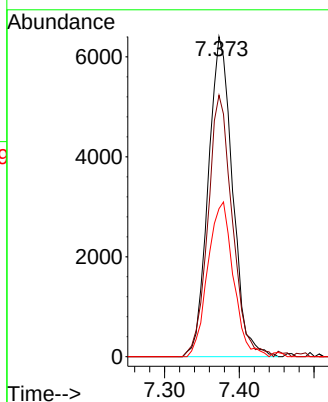
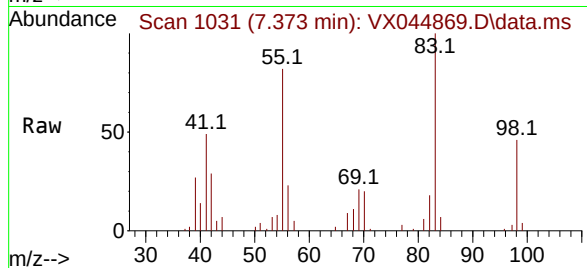
98 46.3 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#40

Benzene

Concen: 5.079 ug/l

RT: 6.038 min Scan# 812

Delta R.T. 0.006 min

Lab File: VX044869.D

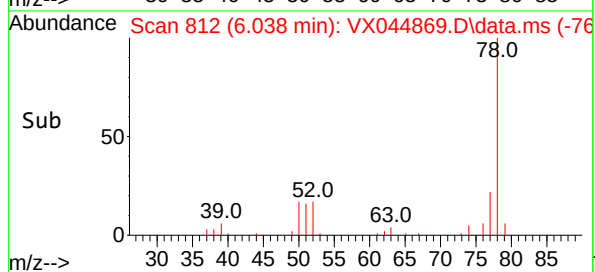
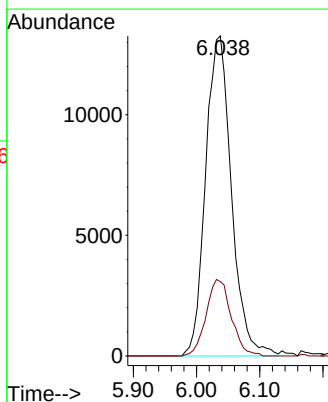
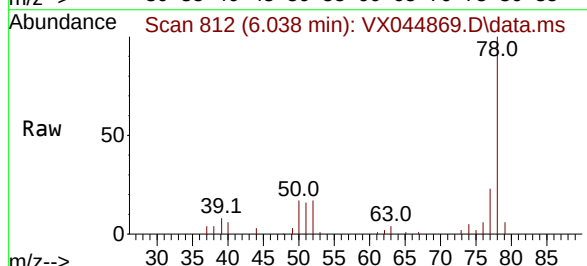
Acq: 10 Feb 2025 10:48

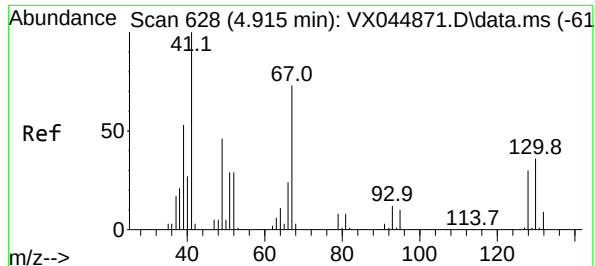
Tgt Ion: 78 Resp: 37687

Ion Ratio Lower Upper

78 100

77 23.3 19.0 28.6





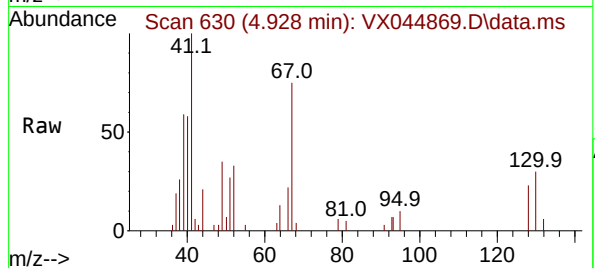
#41
Methacrylonitrile
Concen: 4.699 ug/l
RT: 4.928 min Scan# 61
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005



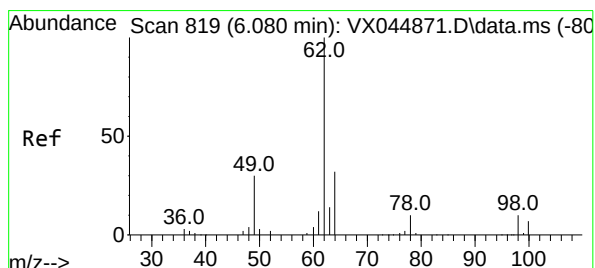
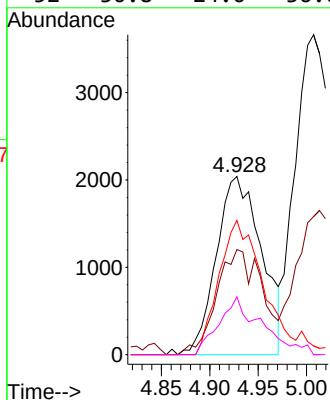
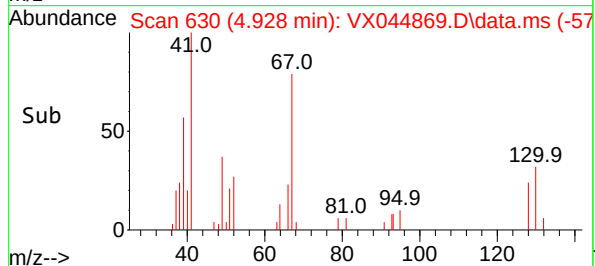
Tgt Ion: 41 Resp: 664
Ion Ratio Lower Upper
41 100
39 59.4 43.1 64.7
67 72.7 57.0 85.6
52 30.8 24.0 36.0

Manual Integrations

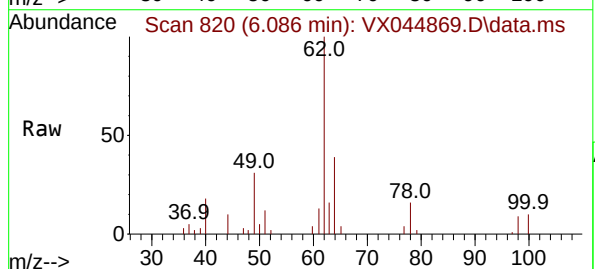
APPROVED

Reviewed By :John Carlone 02/11/2025

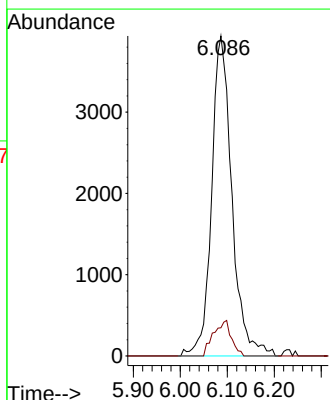
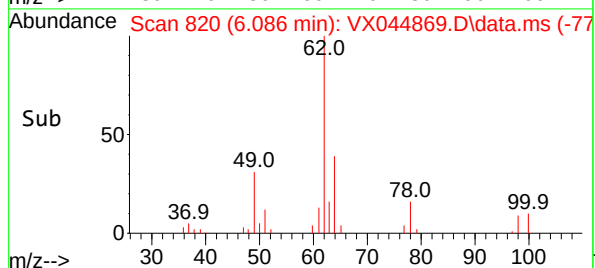
Supervised By :Mahesh Dadoda 02/11/2025

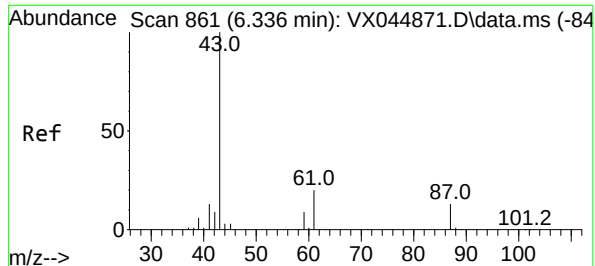


#42
1,2-Dichloroethane
Concen: 4.985 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48



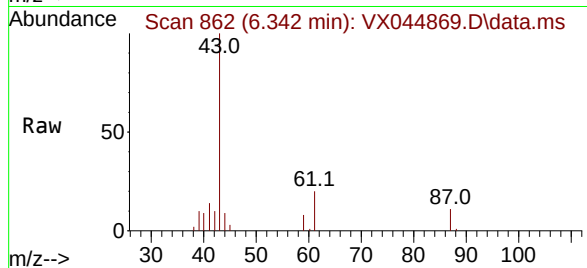
Tgt Ion: 62 Resp: 11789
Ion Ratio Lower Upper
62 100
98 9.7 0.0 19.4





#43
Isopropyl Acetate
Concen: 4.640 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

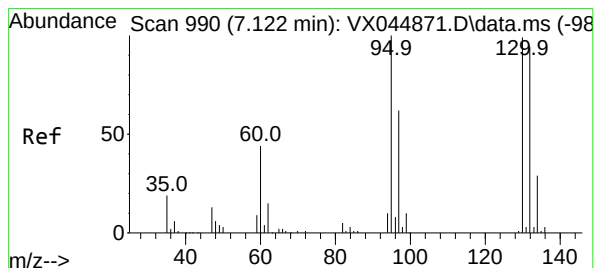
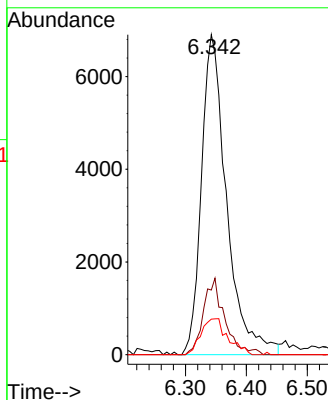
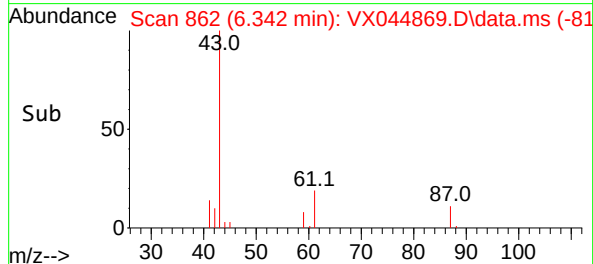
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 43 Resp: 1980
Ion Ratio Lower Upper
43 100
61 20.2 15.8 23.8
87 11.9 10.0 15.0

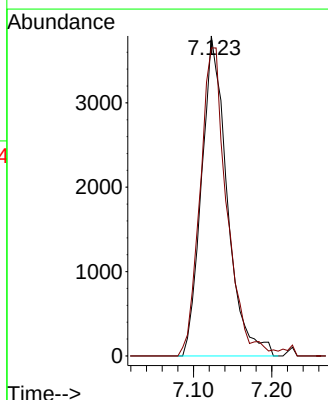
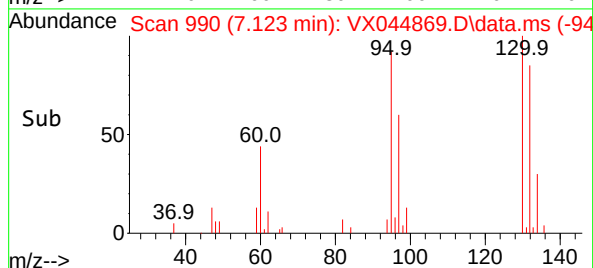
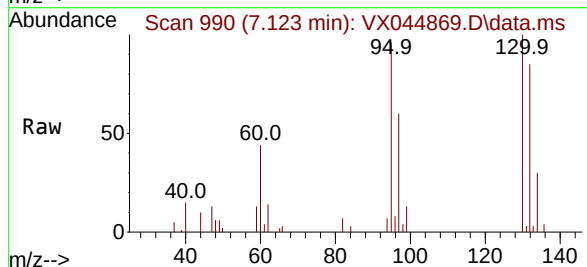
Manual Integrations
APPROVED

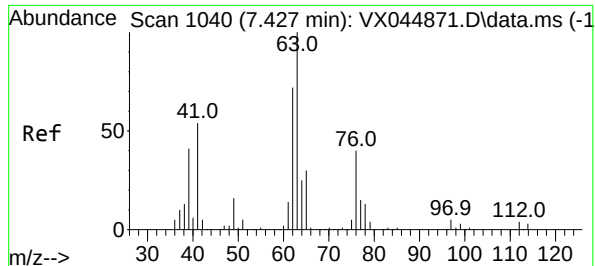
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#44
Trichloroethene
Concen: 5.079 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:130 Resp: 8614
Ion Ratio Lower Upper
130 100
95 96.2 0.0 202.4





#45

1,2-Dichloropropane

Concen: 4.863 ug/l

RT: 7.428 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 63 Resp: 8970

Ion Ratio Lower Upper

63 100

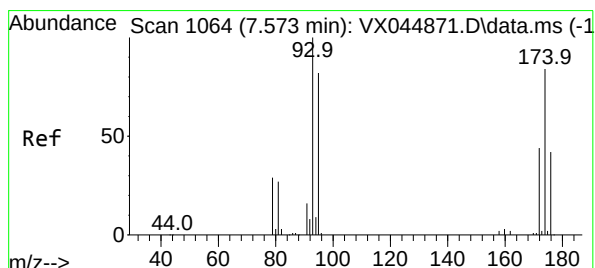
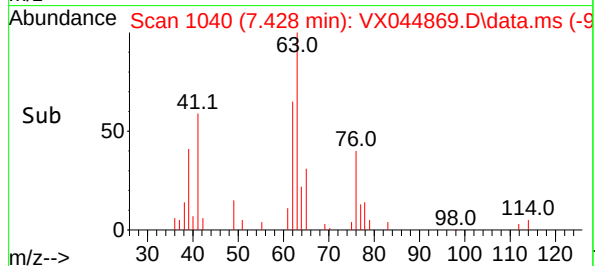
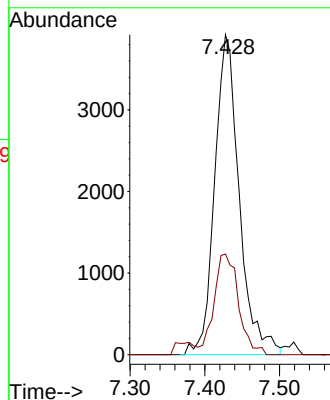
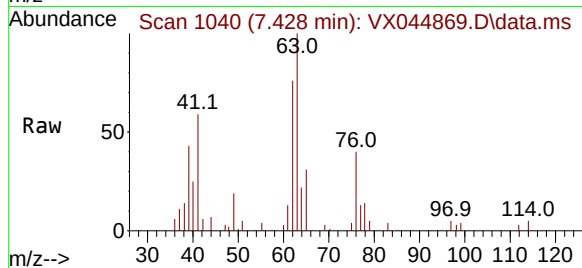
65 31.4 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#46

Dibromomethane

Concen: 4.851 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.013 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

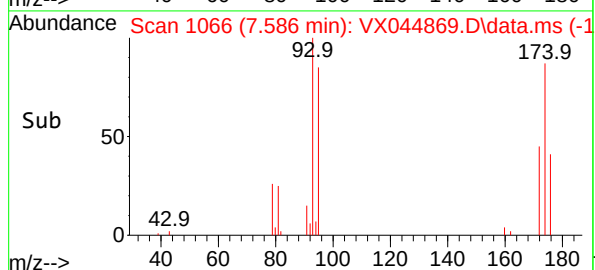
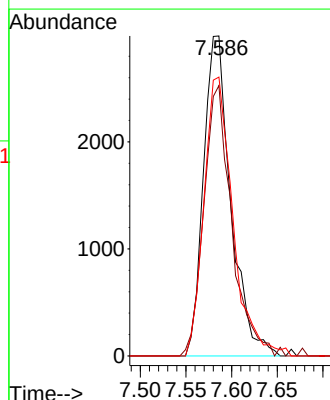
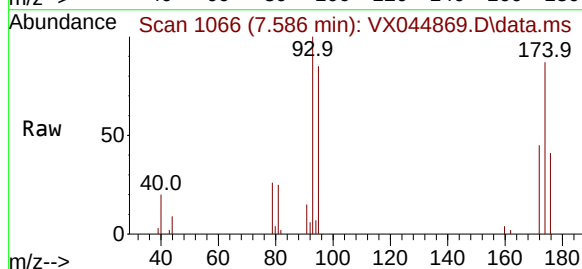
Tgt Ion: 93 Resp: 6210

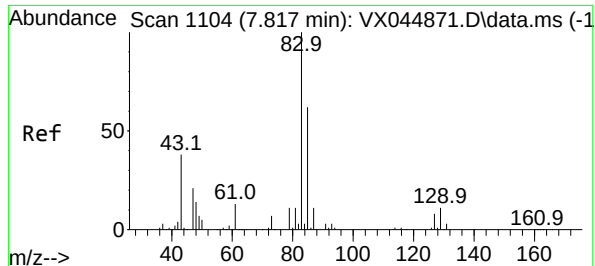
Ion Ratio Lower Upper

93 100

95 86.4 66.2 99.4

174 92.2 69.9 104.9





#47

Bromodichloromethane

Concen: 4.911 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

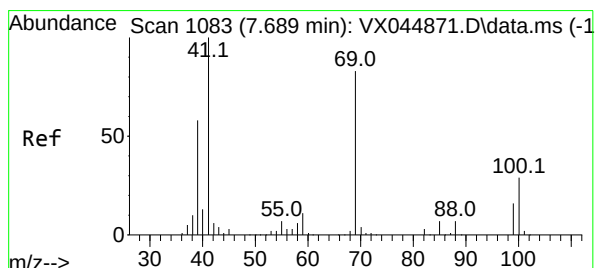
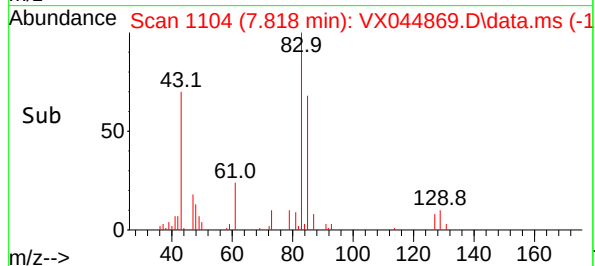
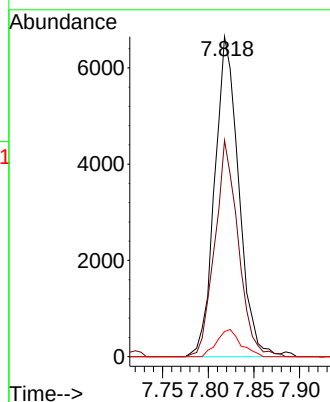
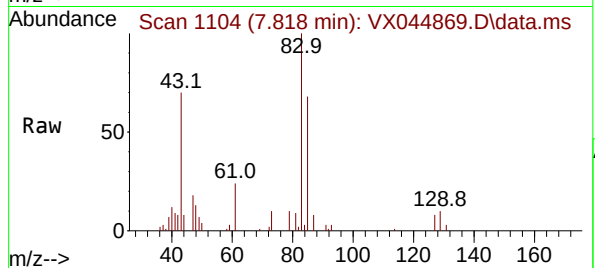
Tgt Ion:	83	Resp:	1217
Ion	Ratio	Lower	Upper
83	100		
85	67.6	50.0	75.0
127	7.8	6.4	9.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#48

Methyl methacrylate

Concen: 4.620 ug/l

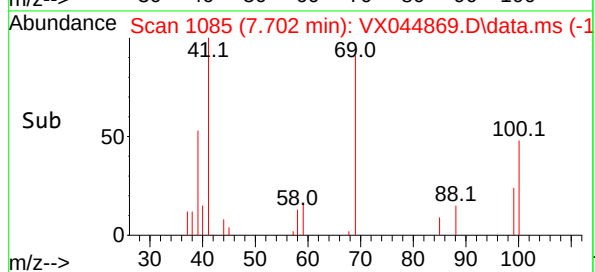
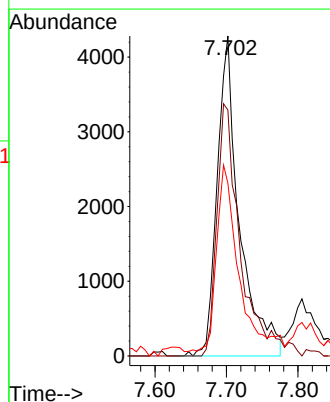
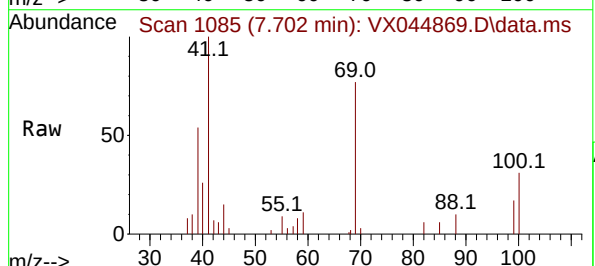
RT: 7.702 min Scan# 1085

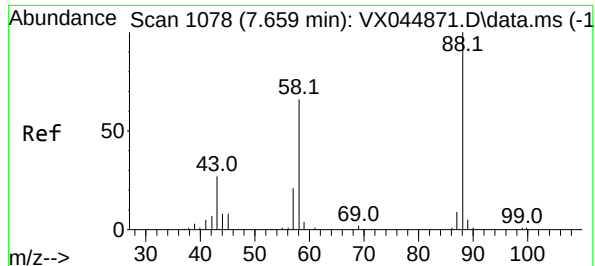
Delta R.T. 0.013 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Tgt Ion:	41	Resp:	9298
Ion	Ratio	Lower	Upper
41	100		
69	83.0	65.8	98.8
39	54.6	46.4	69.6





#49

1,4-Dioxane

Concen: 101.099 ug/l

RT: 7.678 min Scan# 1078

Delta R.T. 0.019 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 88 Resp: 436

Ion Ratio Lower Upper

88 100

43 32.3 26.6 39.8

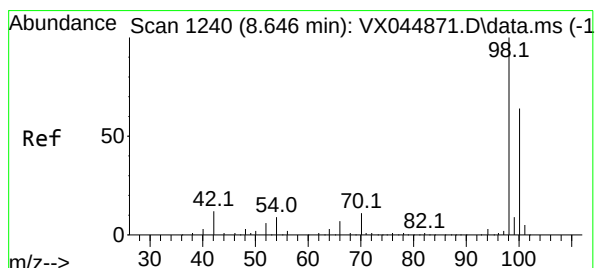
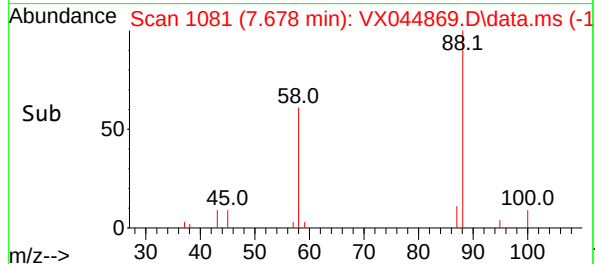
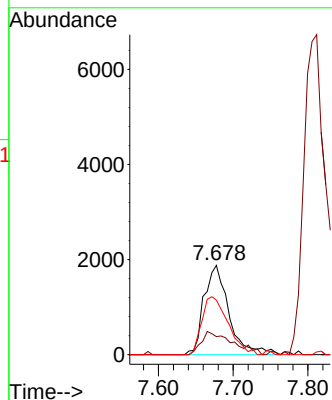
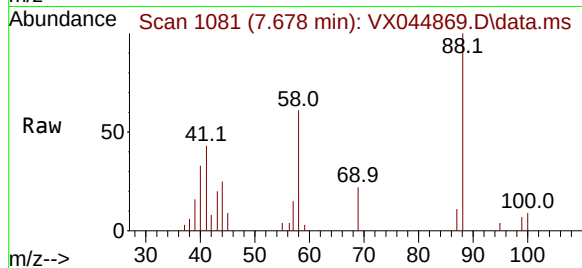
58 67.9 55.9 83.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#50

Toluene-d8

Concen: 5.039 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044869.D

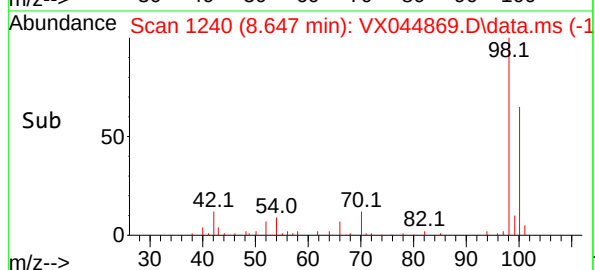
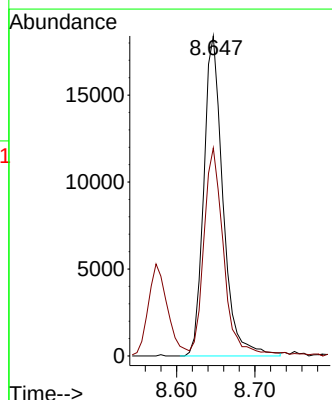
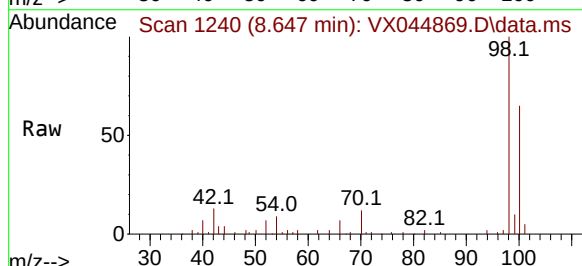
Acq: 10 Feb 2025 10:48

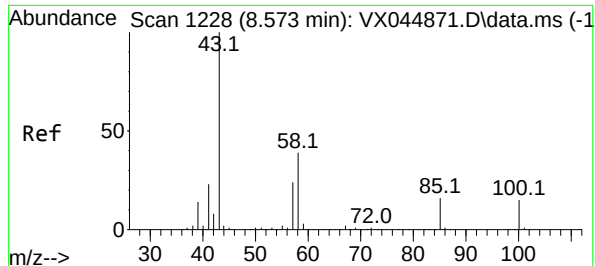
Tgt Ion: 98 Resp: 31381

Ion Ratio Lower Upper

98 100

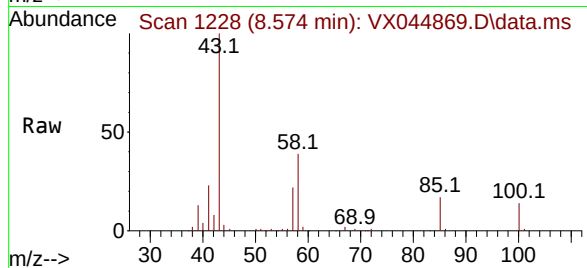
100 67.8 52.7 79.1





#51
4-Methyl-2-Pentanone
Concen: 25.076 ug/l
RT: 8.574 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

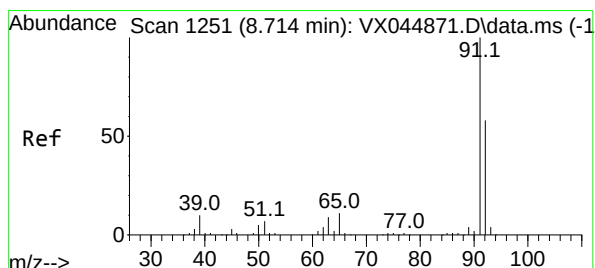
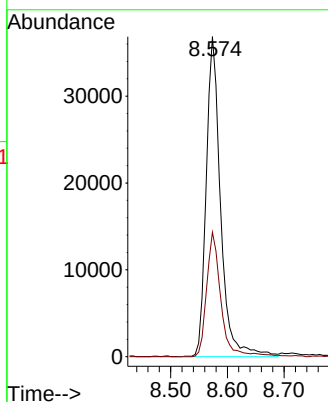
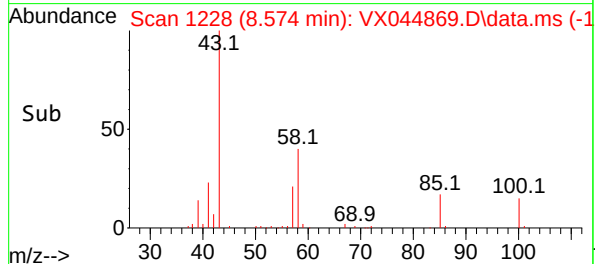
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 43 Resp: 65064
Ion Ratio Lower Upper
43 100
58 38.7 30.8 46.2

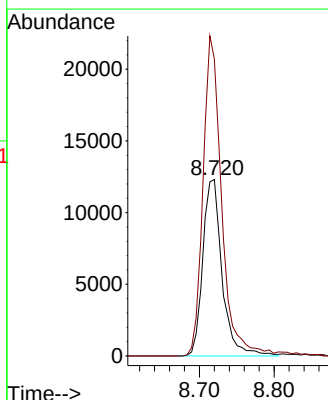
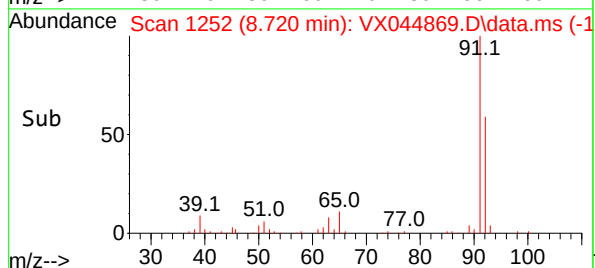
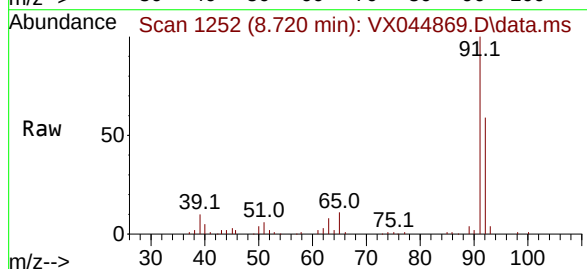
Manual Integrations
APPROVED

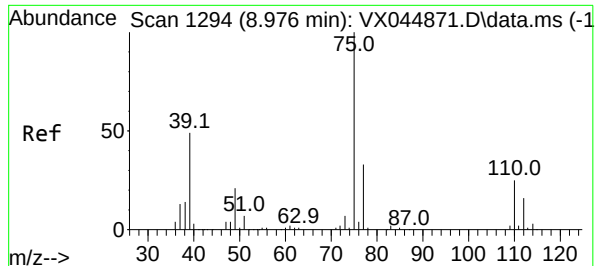
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#52
Toluene
Concen: 4.999 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 92 Resp: 22090
Ion Ratio Lower Upper
92 100
91 177.1 137.4 206.2





#53

t-1,3-Dichloropropene

Concen: 4.550 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 1141

Ion Ratio Lower Upper

75 100

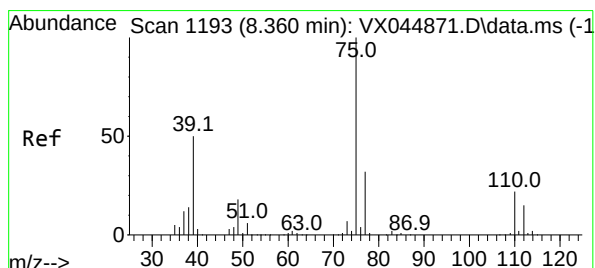
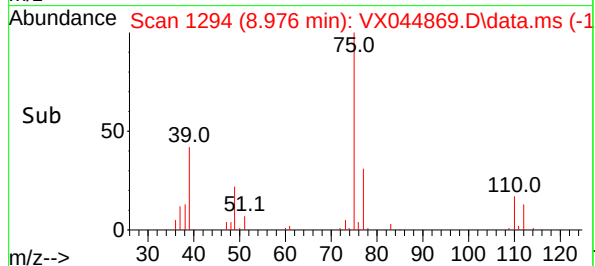
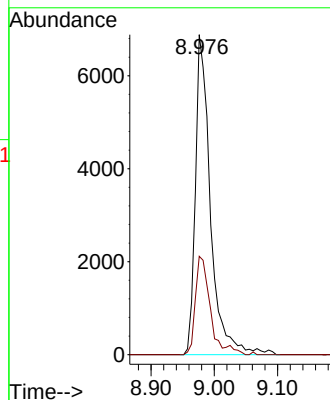
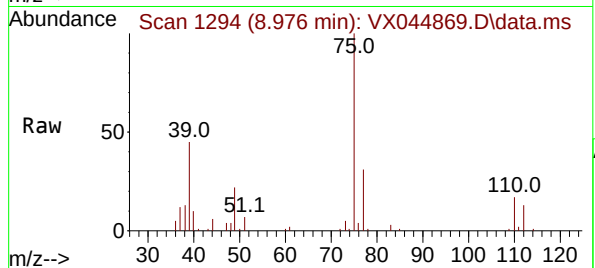
77 30.7 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#54

cis-1,3-Dichloropropene

Concen: 4.628 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.006 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

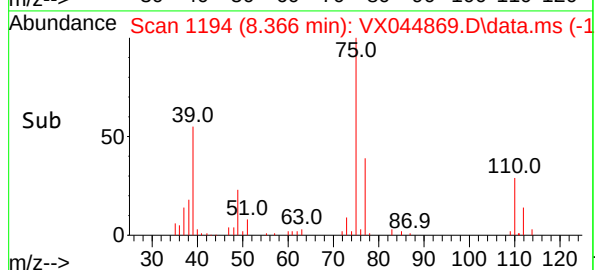
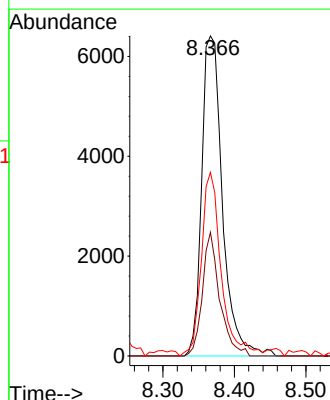
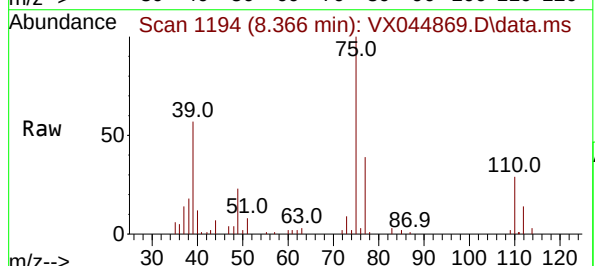
Tgt Ion: 75 Resp: 12943

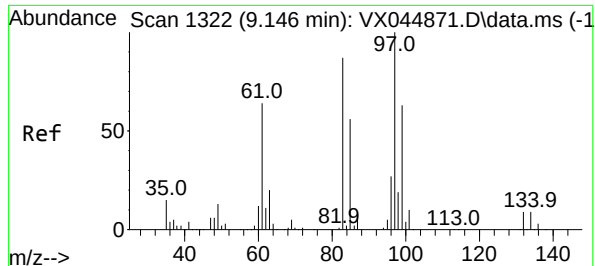
Ion Ratio Lower Upper

75 100

77 38.7 25.3 37.9#

39 57.4 40.0 60.0





#55

1,1,2-Trichloroethane

Concen: 5.099 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.006 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 97 Resp: 866

Ion Ratio Lower Upper

97 100

83 86.1 69.8 104.6

85 58.3 44.8 67.2

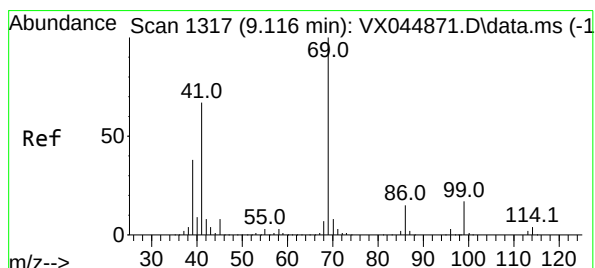
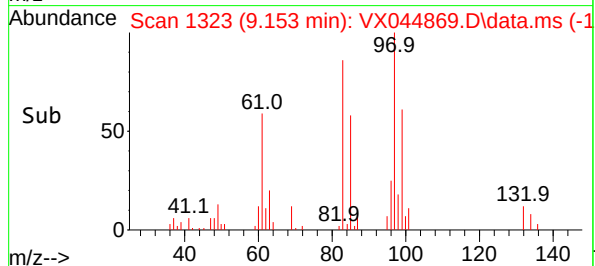
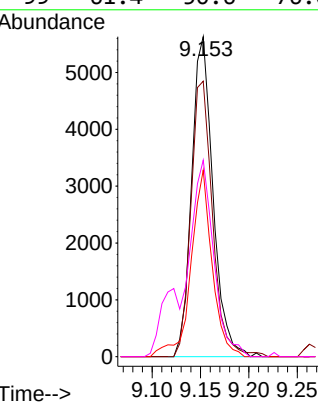
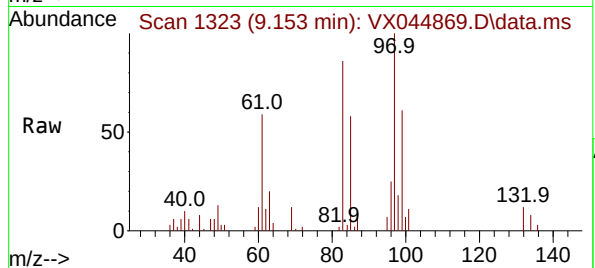
99 61.4 50.6 76.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#56

Ethyl methacrylate

Concen: 4.502 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

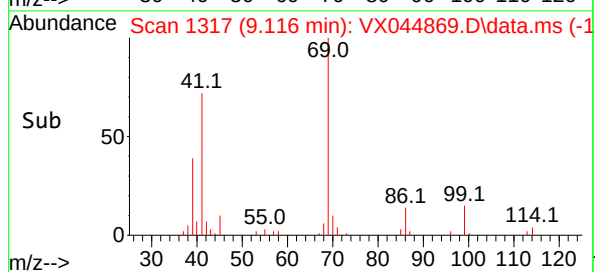
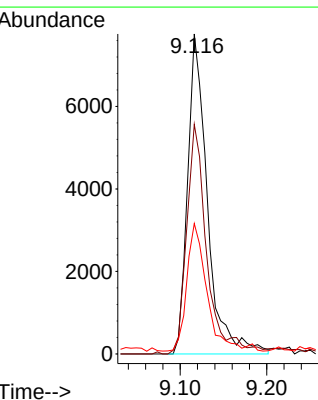
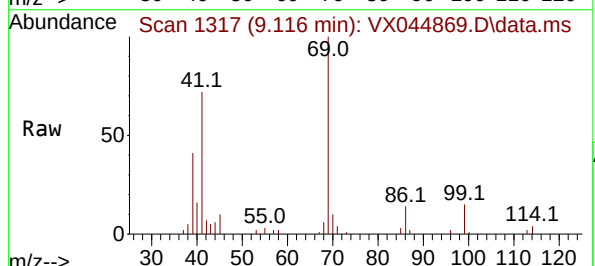
Tgt Ion: 69 Resp: 12351

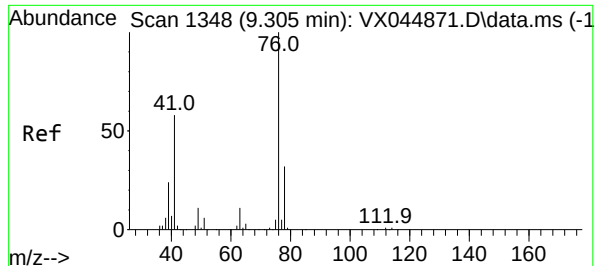
Ion Ratio Lower Upper

69 100

41 73.0 55.2 82.8

39 39.5 30.8 46.2





#57

1,3-Dichloropropane

Concen: 4.993 ug/l

RT: 9.305 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 14839

Ion Ratio Lower Upper

76 100

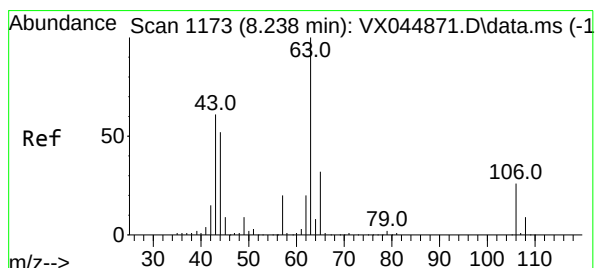
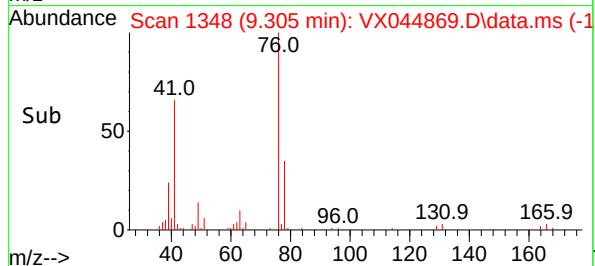
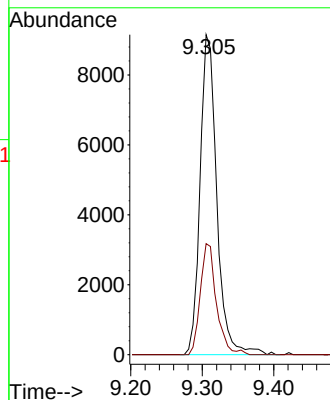
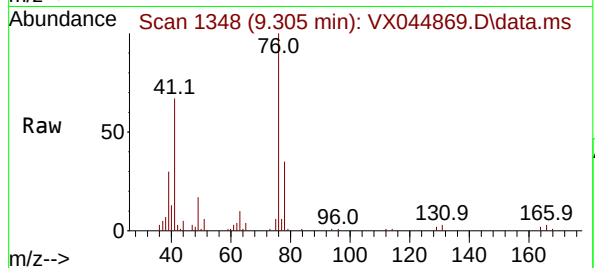
78 33.4 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#58

2-Chloroethyl Vinyl ether

Concen: 23.382 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX044869.D

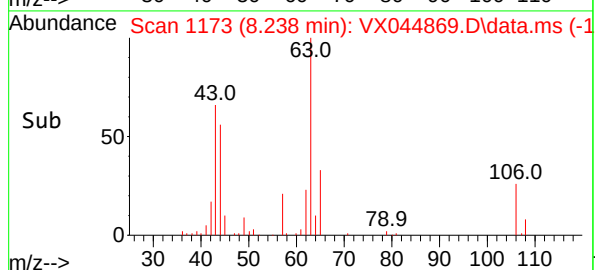
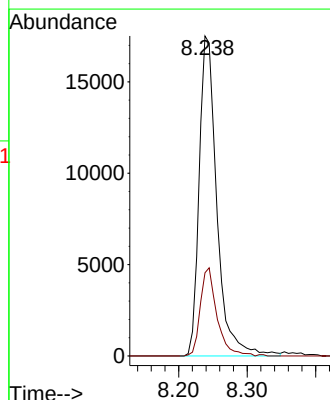
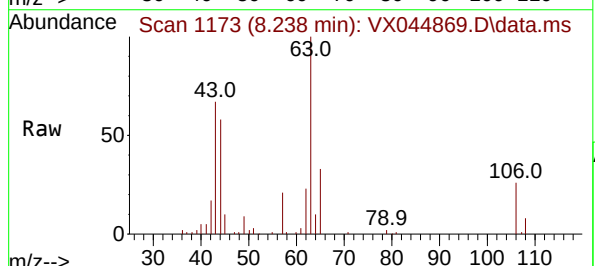
Acq: 10 Feb 2025 10:48

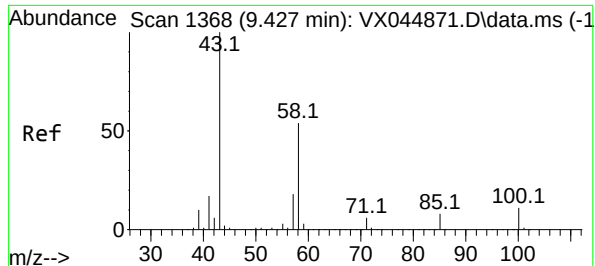
Tgt Ion: 63 Resp: 31498

Ion Ratio Lower Upper

63 100

106 25.8 21.3 31.9





#59

2-Hexanone

Concen: 24.359 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.006 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 45538

Ion Ratio Lower Upper

43 100

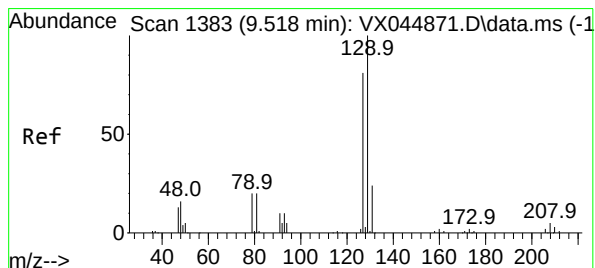
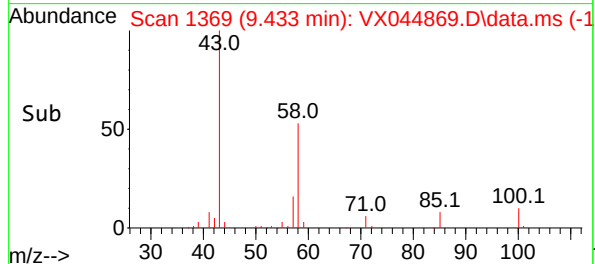
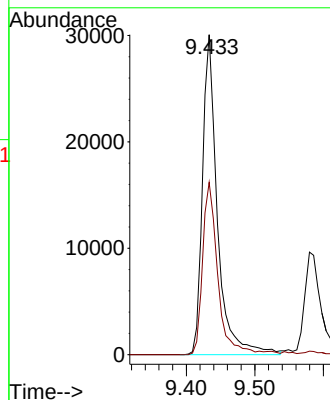
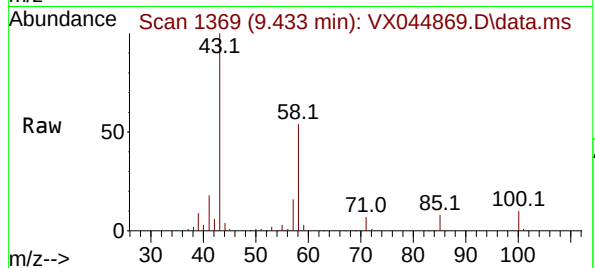
58 55.5 27.5 82.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#60

Dibromochloromethane

Concen: 4.771 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX044869.D

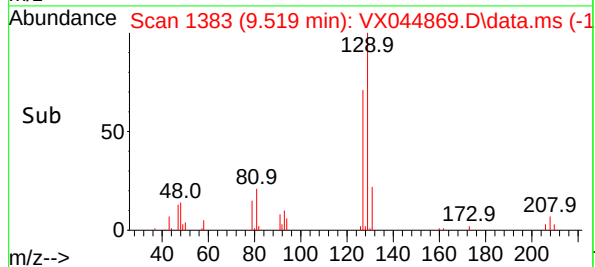
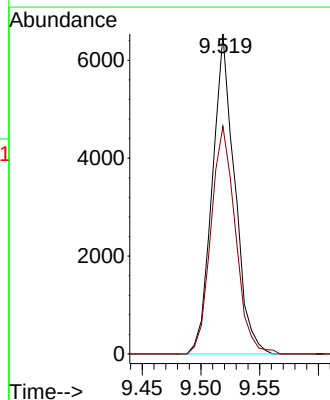
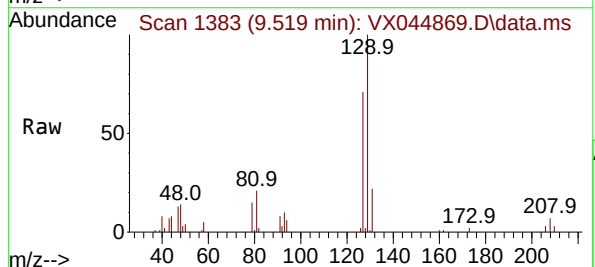
Acq: 10 Feb 2025 10:48

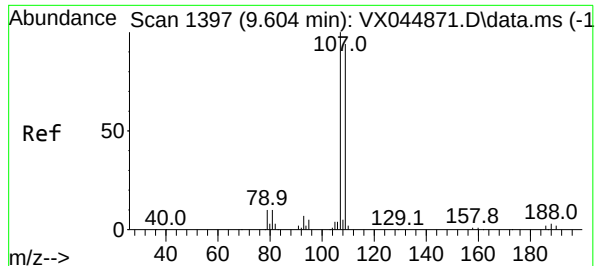
Tgt Ion:129 Resp: 8668

Ion Ratio Lower Upper

129 100

127 77.5 39.1 117.3





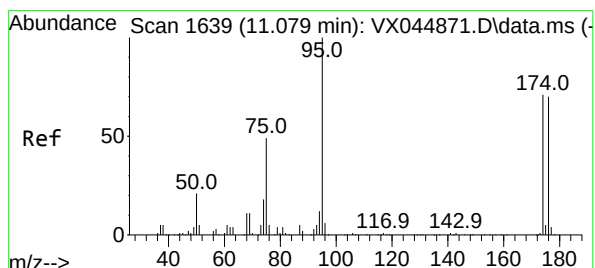
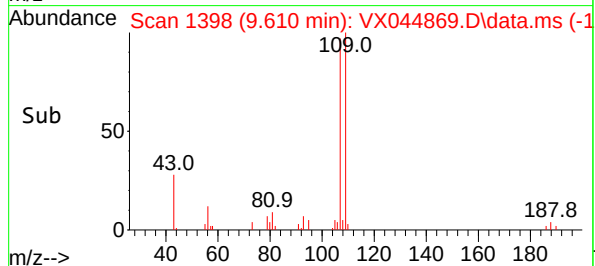
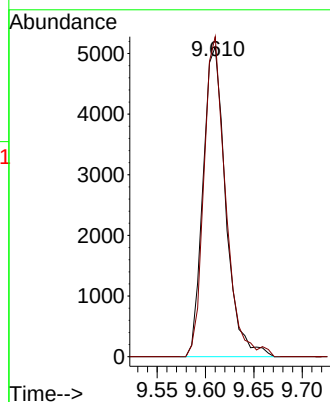
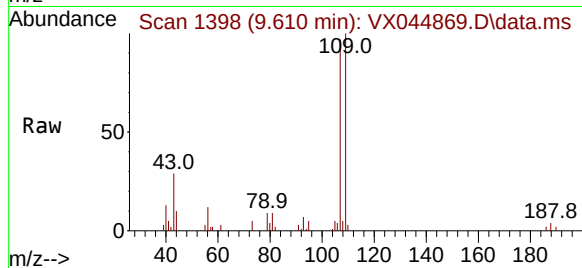
#61
1,2-Dibromoethane
Concen: 4.852 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 835
Ion Ratio Lower Upper
107 100
109 98.8 75.9 113.9

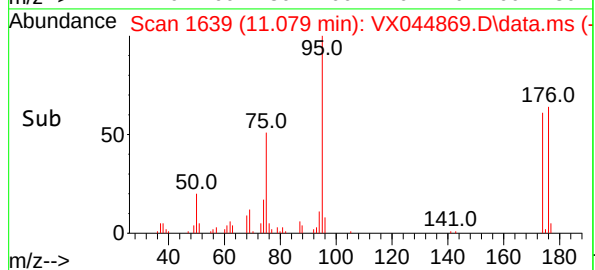
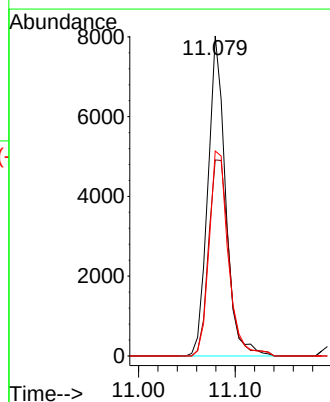
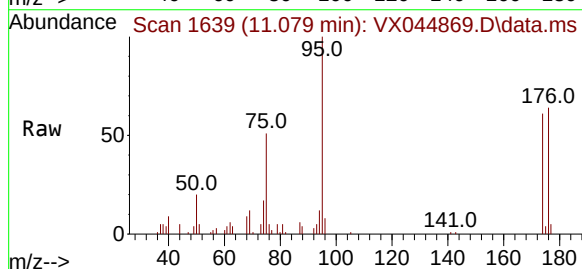
Manual Integrations
APPROVED

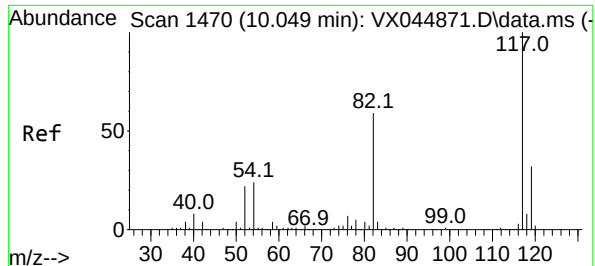
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#62
4-Bromofluorobenzene
Concen: 4.872 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 95 Resp: 10229
Ion Ratio Lower Upper
95 100
174 70.3 0.0 142.6
176 69.3 0.0 141.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:117 Resp: 21862

Ion Ratio Lower Upper

117 100

82 57.3 47.5 71.3

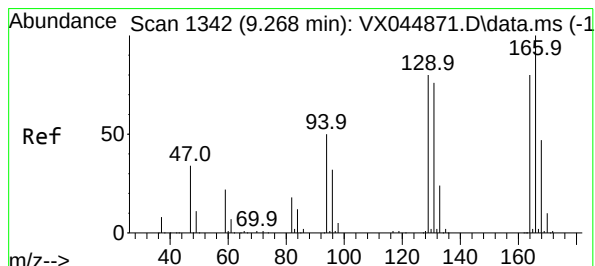
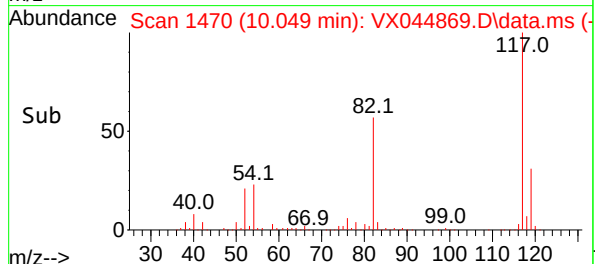
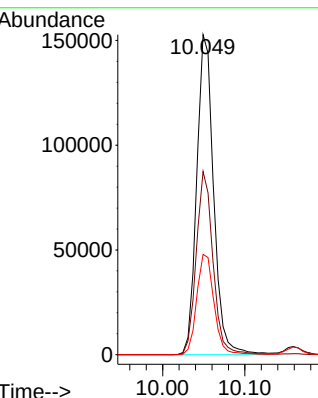
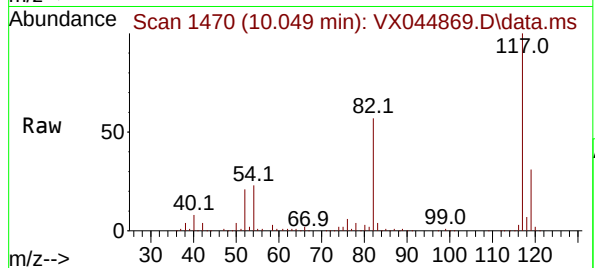
119 31.4 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#64

Tetrachloroethene

Concen: 4.934 ug/l

RT: 9.269 min Scan# 1342

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Tgt Ion:164 Resp: 6803

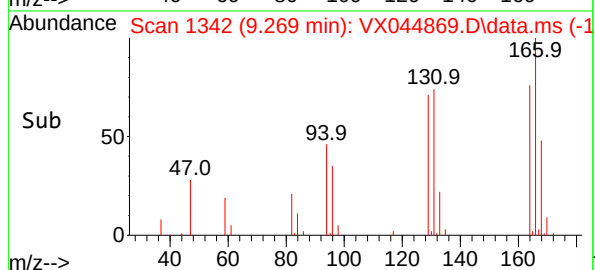
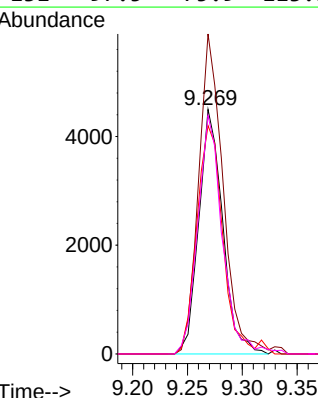
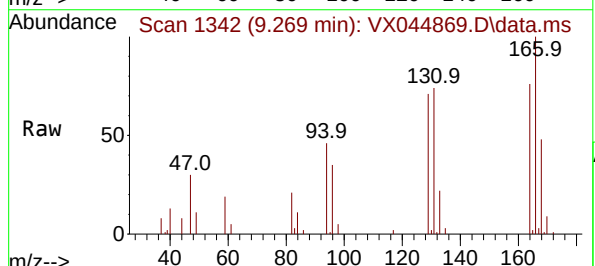
Ion Ratio Lower Upper

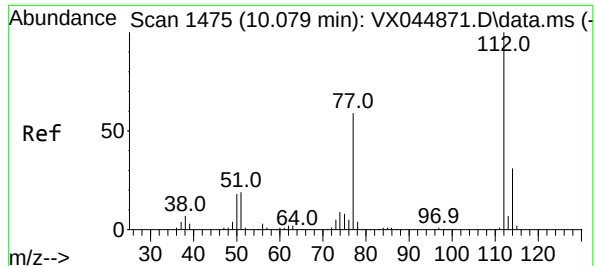
164 100

166 130.9 100.4 150.6

129 93.4 79.9 119.9

131 97.5 75.9 113.9





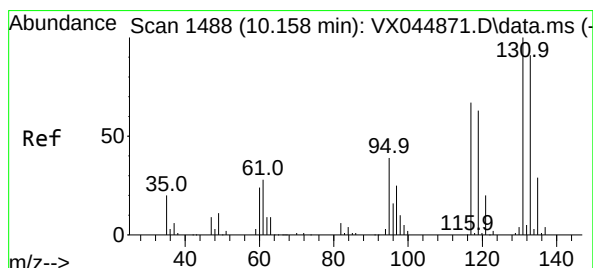
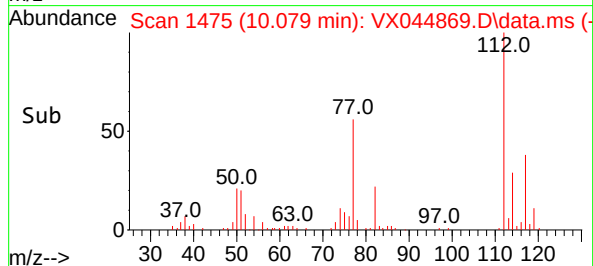
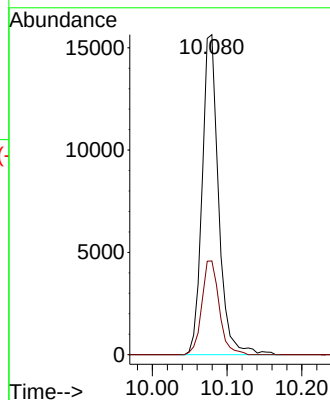
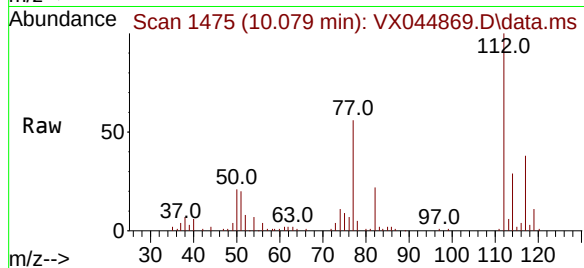
#65
Chlorobenzene
Concen: 5.090 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 2390
Ion Ratio Lower Upper
112 100
114 29.3 25.0 37.6

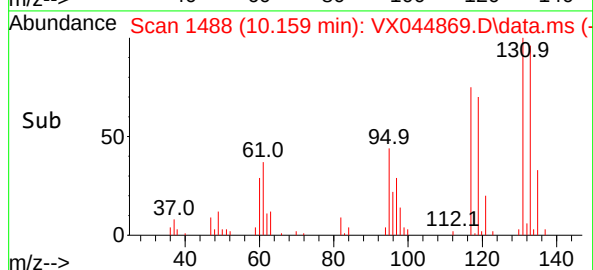
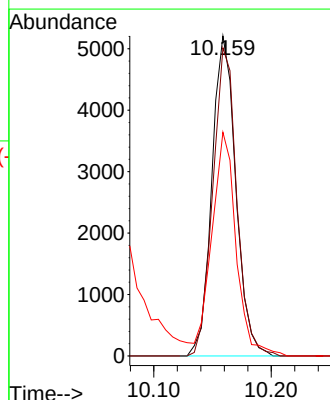
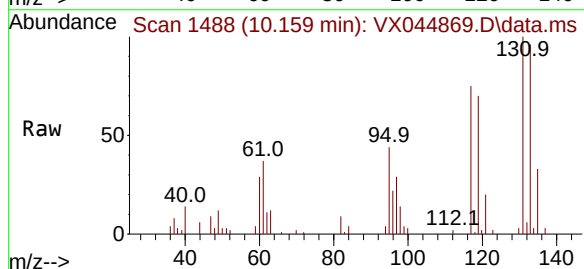
Manual Integrations
APPROVED

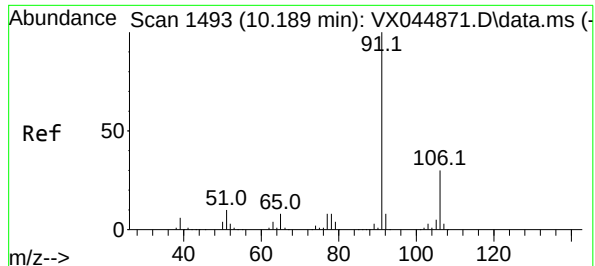
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 4.883 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:131 Resp: 7380
Ion Ratio Lower Upper
131 100
133 96.2 47.1 141.3
119 70.5 33.6 100.6





#67

Ethyl Benzene

Concen: 4.941 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 4094

Ion Ratio Lower Upper

91 100

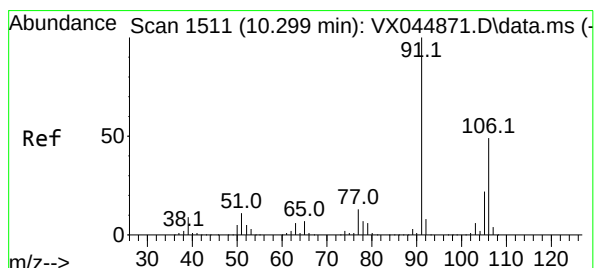
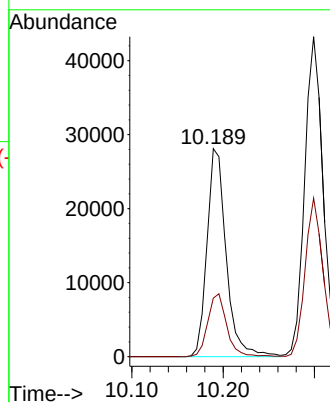
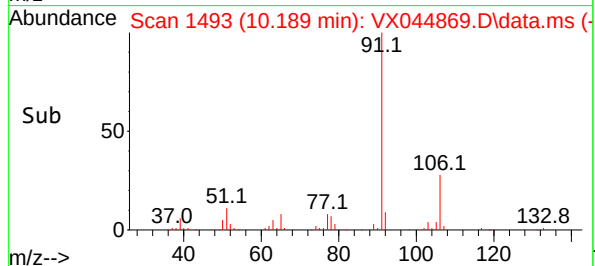
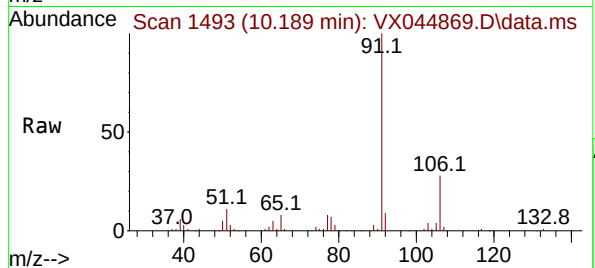
106 28.1 23.9 35.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#68

m/p-Xylenes

Concen: 10.019 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX044869.D

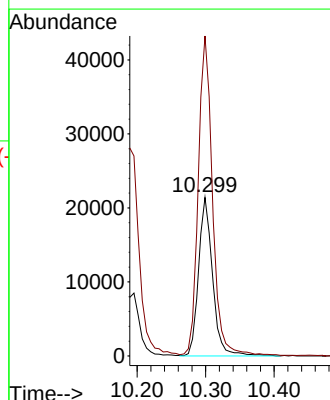
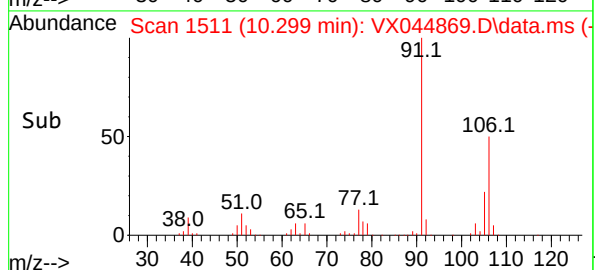
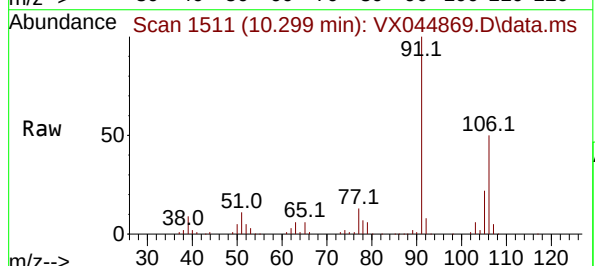
Acq: 10 Feb 2025 10:48

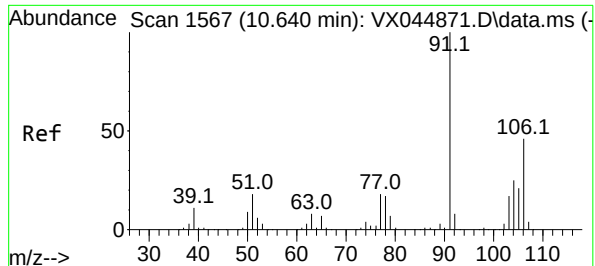
Tgt Ion:106 Resp: 30627

Ion Ratio Lower Upper

106 100

91 204.6 164.3 246.5





#69

o-Xylene

Concen: 5.139 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:106 Resp: 1576

Ion Ratio Lower Upper

106 100

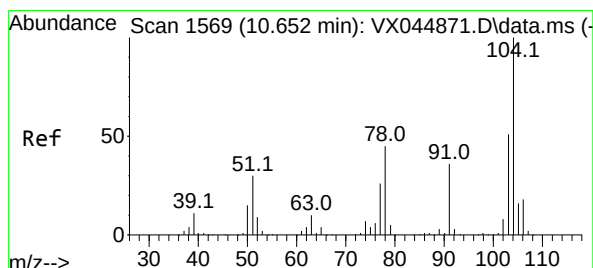
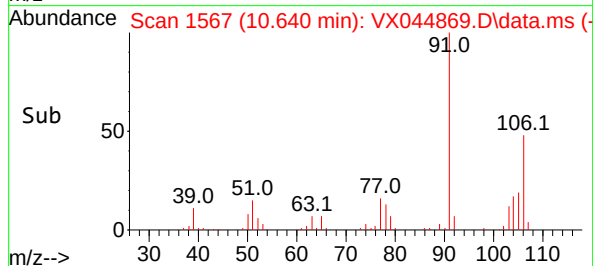
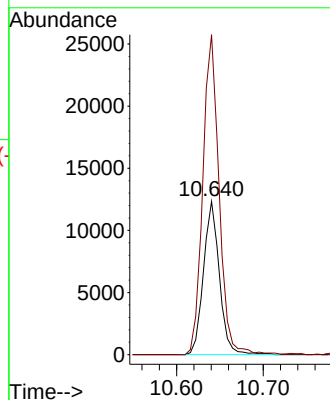
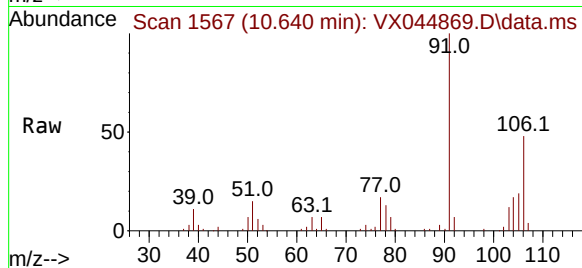
91 213.9 108.5 325.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#70

Styrene

Concen: 4.973 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

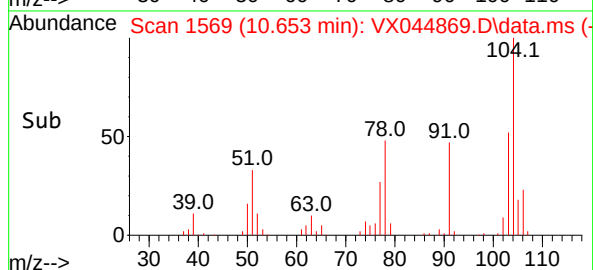
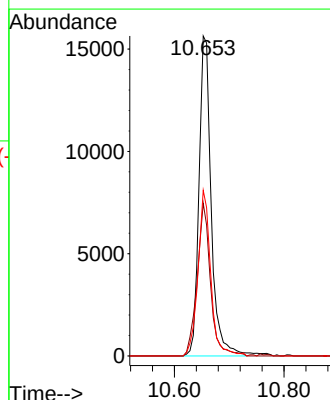
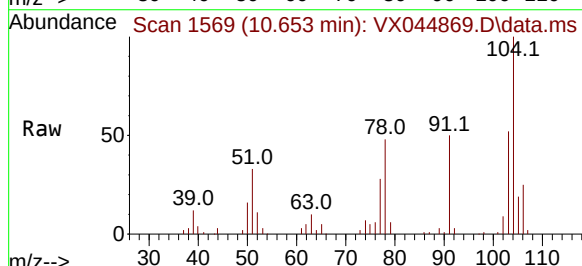
Tgt Ion:104 Resp: 24576

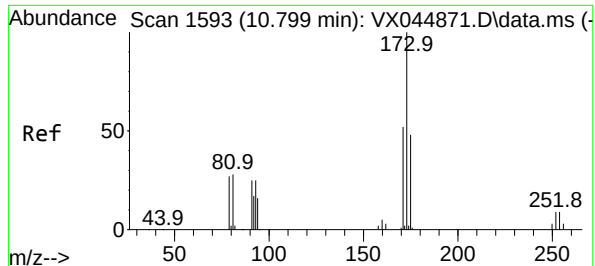
Ion Ratio Lower Upper

104 100

78 51.3 40.5 60.7

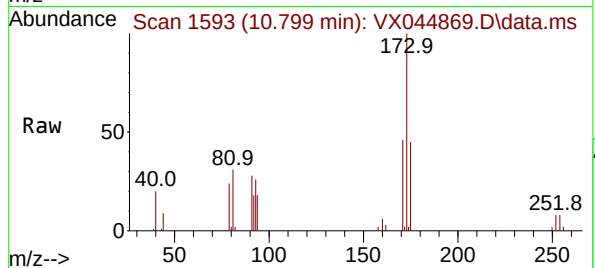
103 53.4 43.6 65.4





#71
Bromoform
Concen: 4.779 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

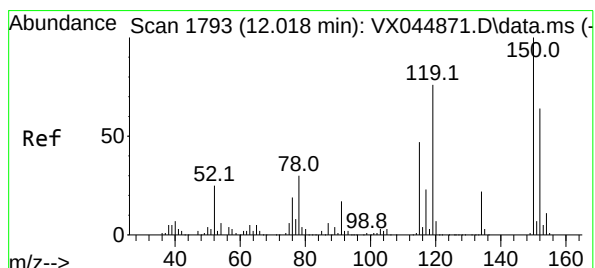
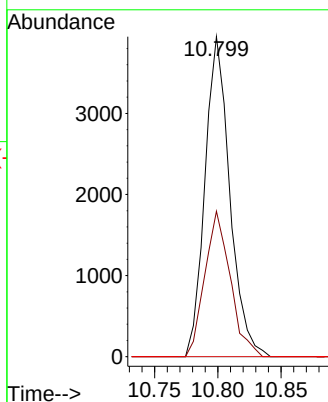
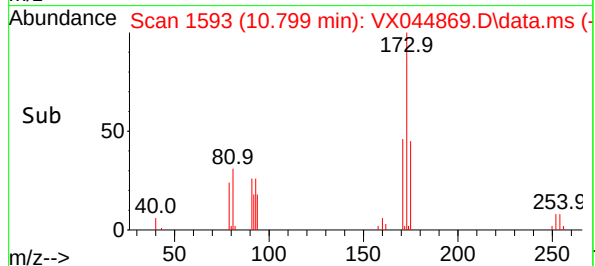
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:173 Resp: 539
Ion Ratio Lower Upper
173 100
175 46.6 24.3 72.8
254 0.0 0.0 0.0

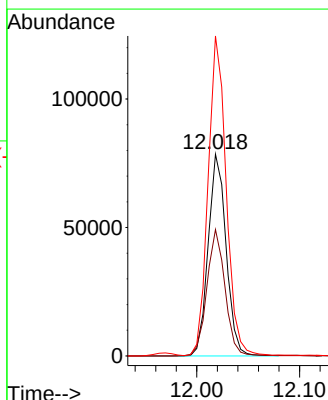
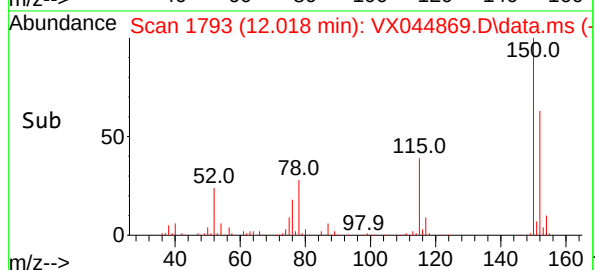
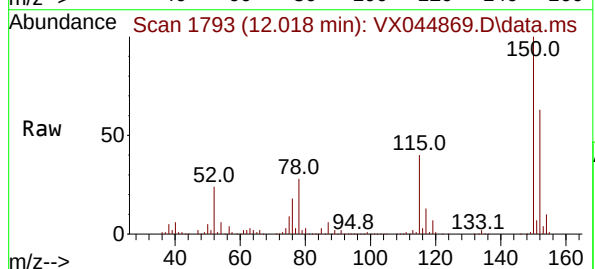
Manual Integrations
APPROVED

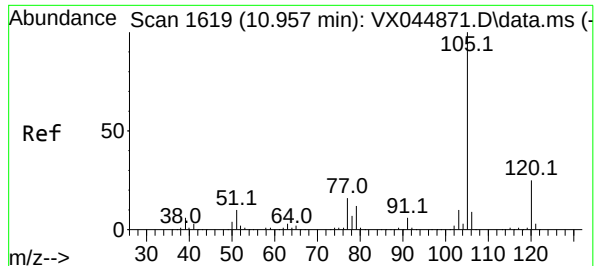
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:152 Resp: 95494
Ion Ratio Lower Upper
152 100
115 63.3 43.4 130.1
150 159.0 0.0 350.4





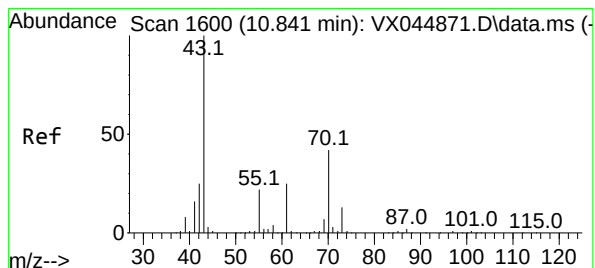
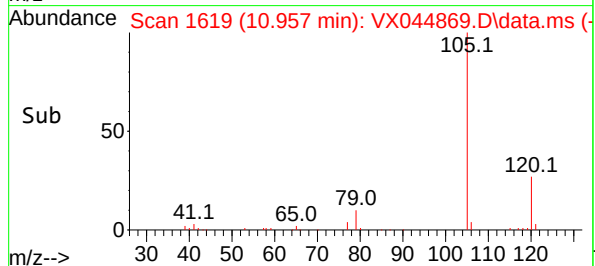
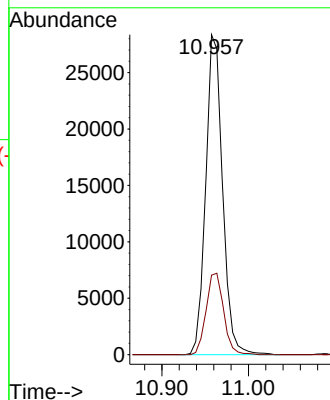
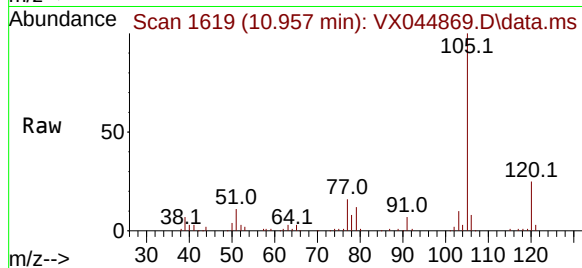
#73
Isopropylbenzene
Concen: 4.983 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 3831
Ion Ratio Lower Upper
105 100
120 26.5 13.2 39.5

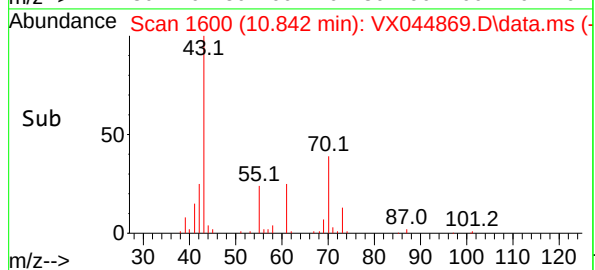
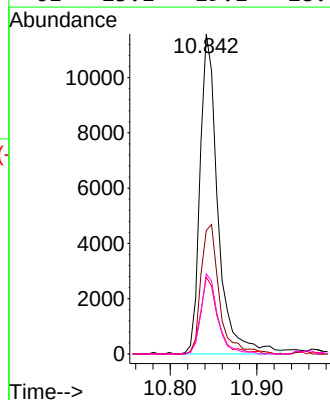
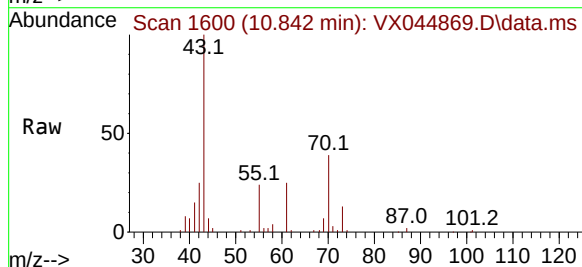
Manual Integrations
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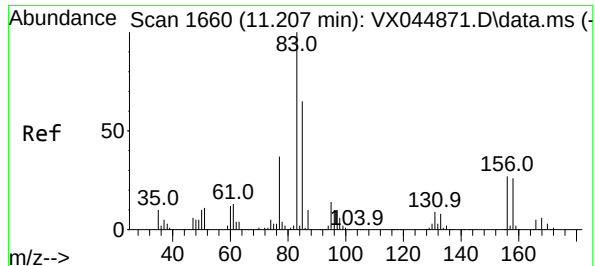
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#74
N-ethyl acetate
Concen: 4.786 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 43 Resp: 16653
Ion Ratio Lower Upper
43 100
70 41.5 33.7 50.5
55 23.5 18.6 27.8
61 23.1 19.1 28.7





#75

1,1,2,2-Tetrachloroethane

Concen: 5.069 ug/l

RT: 11.213 min Scan# 1661

Delta R.T. 0.006 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

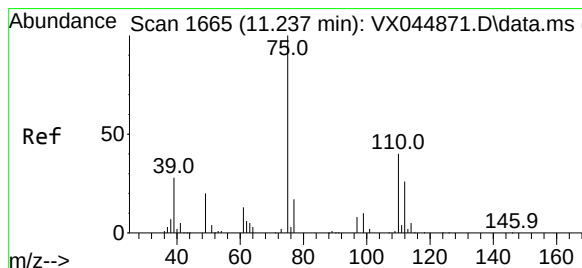
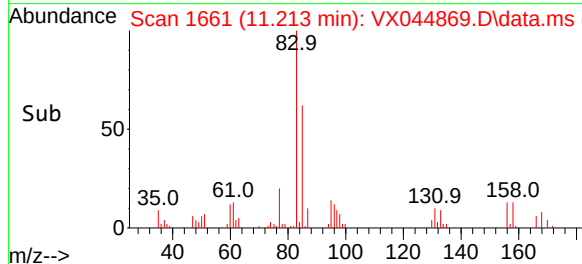
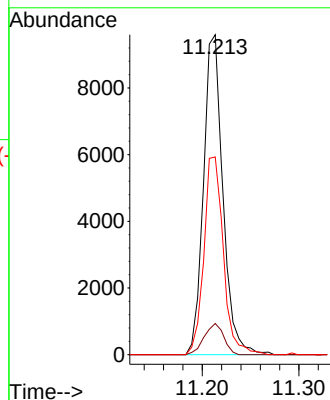
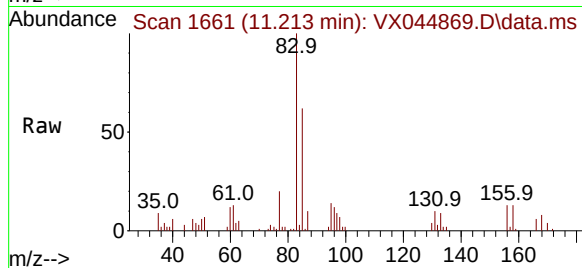
Tgt Ion:	83	Resp:	13394
Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.5	13.5
85	62.1	32.3	96.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#76

1,2,3-Trichloropropane

Concen: 5.201 ug/l m

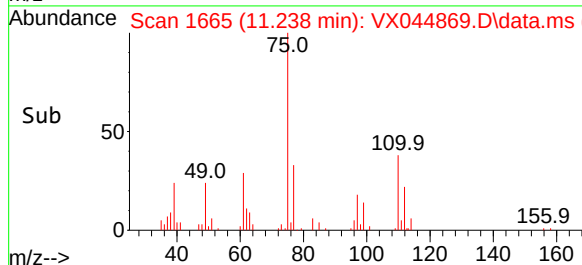
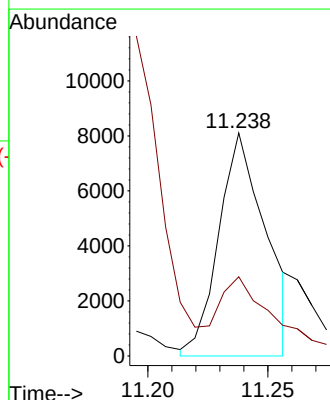
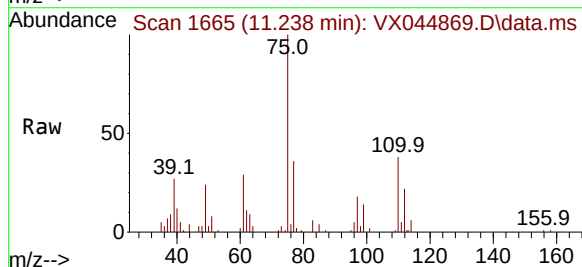
RT: 11.238 min Scan# 1665

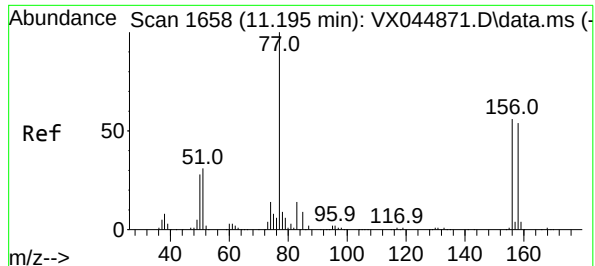
Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

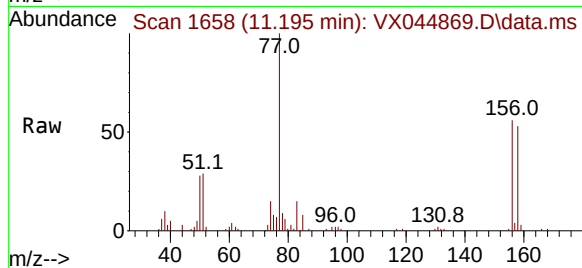
Tgt Ion:	75	Resp:	11011
Ion	Ratio	Lower	Upper
75	100		
77	44.1	21.9	65.7





#77
Bromobenzene
Concen: 5.042 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

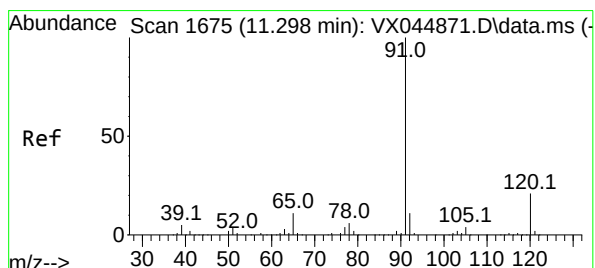
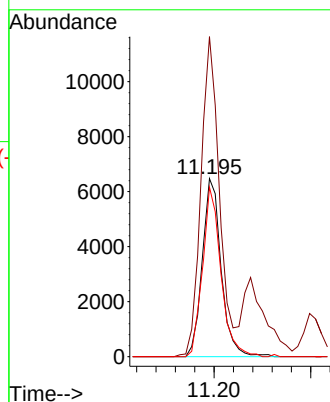
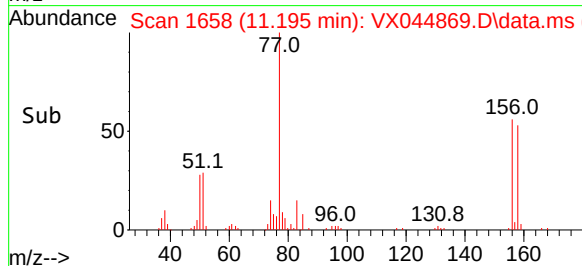
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



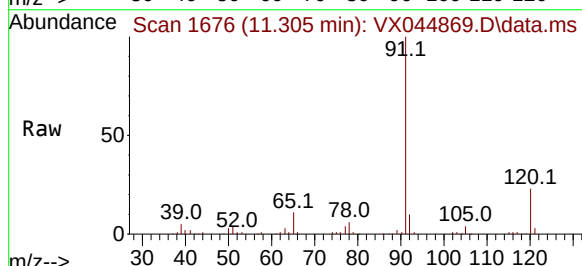
Tgt Ion:156 Resp: 8789
Ion Ratio Lower Upper
156 100
77 174.1 88.4 265.3
158 92.9 48.4 145.2

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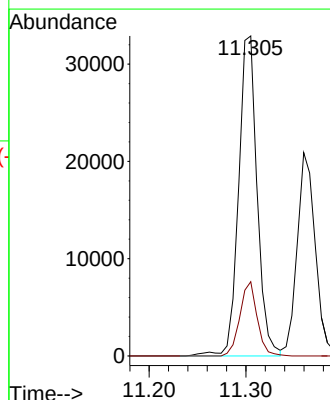
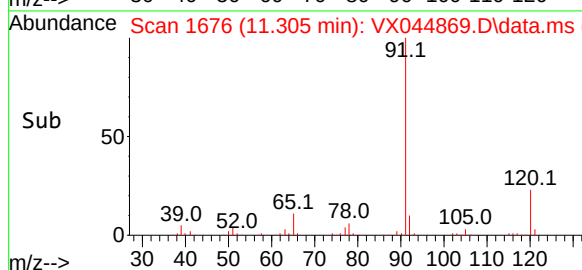
Reviewed By :John Carbone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

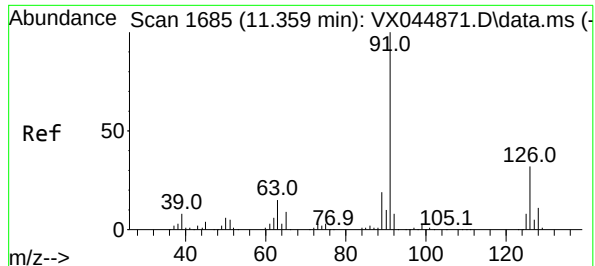


#78
n-propylbenzene
Concen: 4.949 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48



Tgt Ion: 91 Resp: 43923
Ion Ratio Lower Upper
91 100
120 21.6 11.1 33.3





#79

2-Chlorotoluene

Concen: 5.007 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 2731

Ion Ratio Lower Upper

91 100

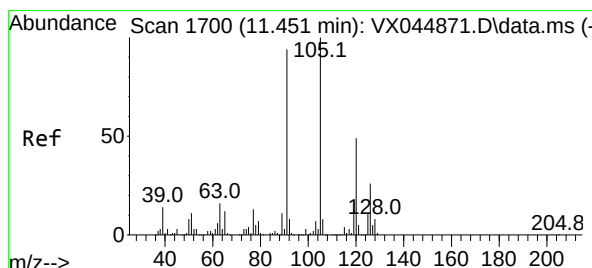
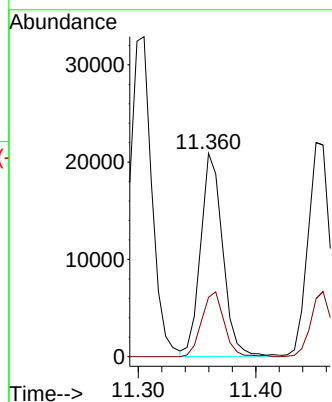
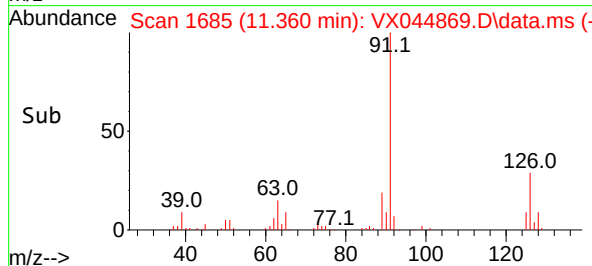
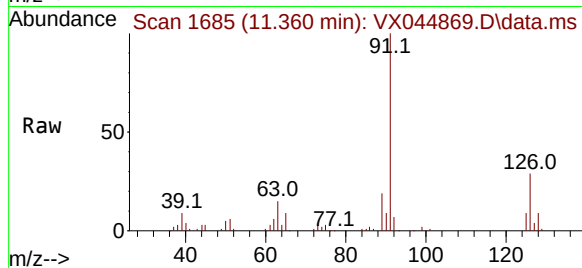
126 32.4 16.2 48.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#80

1,3,5-Trimethylbenzene

Concen: 5.090 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX044869.D

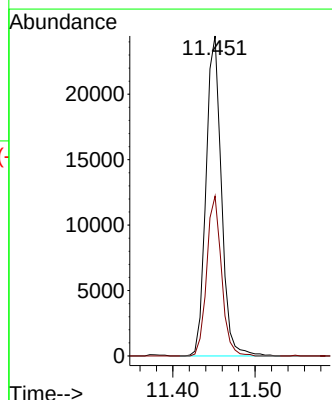
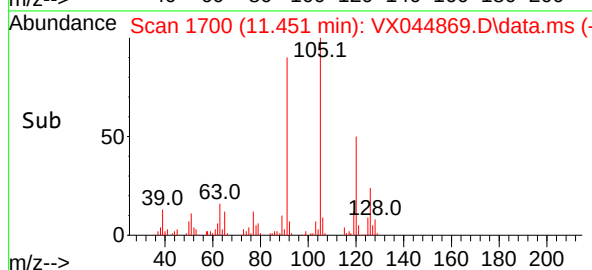
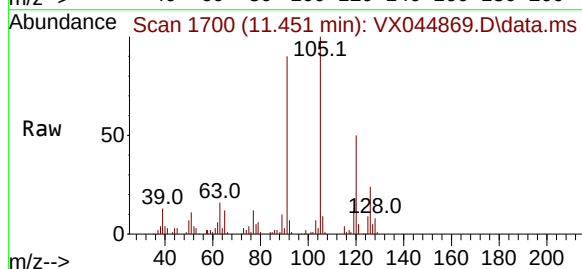
Acq: 10 Feb 2025 10:48

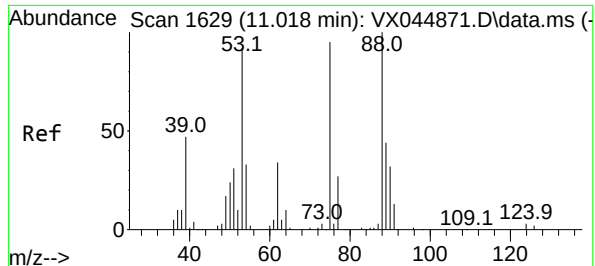
Tgt Ion:105 Resp: 31761

Ion Ratio Lower Upper

105 100

120 48.1 24.0 72.0





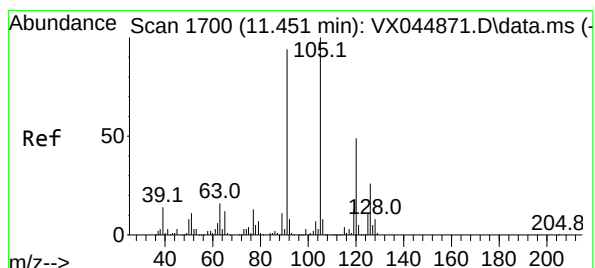
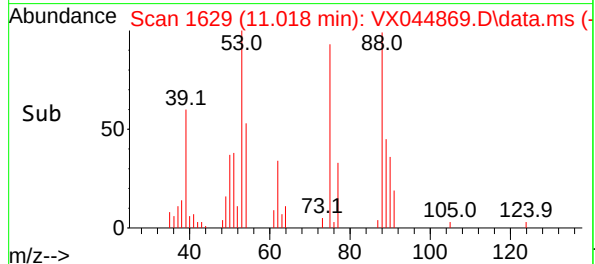
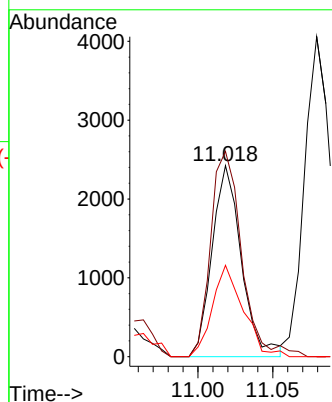
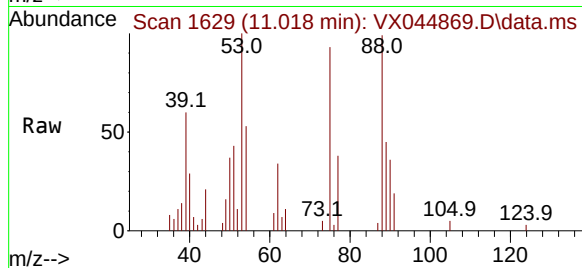
#81
trans-1,4-Dichloro-2-butene
Concen: 4.013 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion: 75 Resp: 3300
Ion Ratio Lower Upper
75 100
53 113.7 78.0 117.0
89 50.2 36.6 54.8

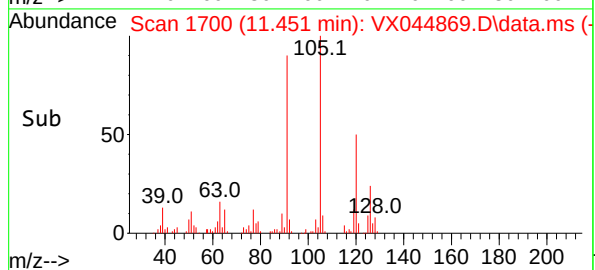
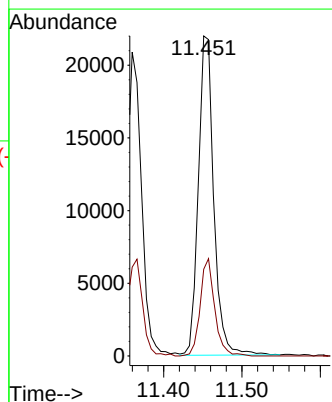
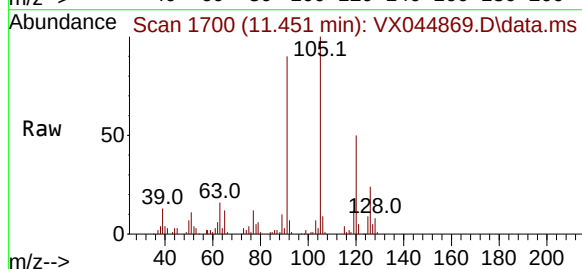
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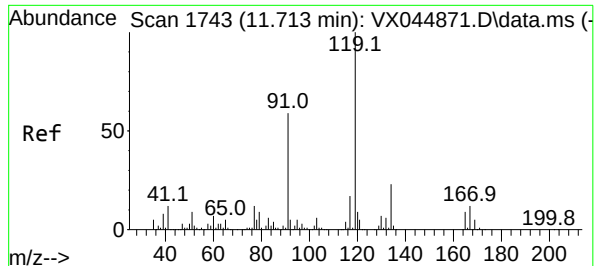
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#82
4-Chlorotoluene
Concen: 4.994 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 91 Resp: 30138
Ion Ratio Lower Upper
91 100
126 28.7 14.2 42.6





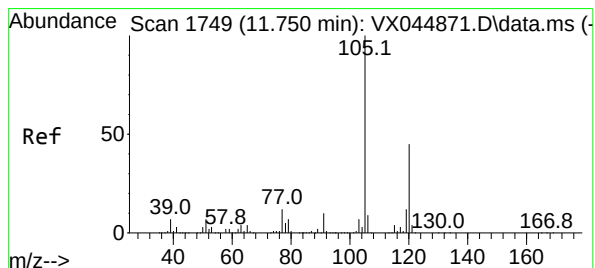
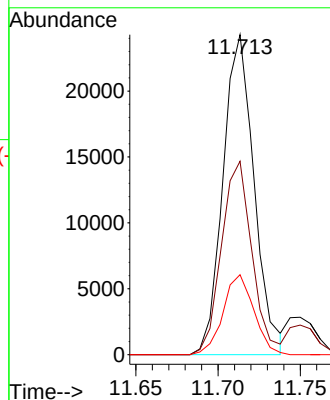
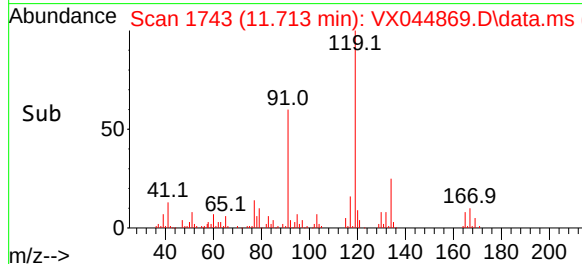
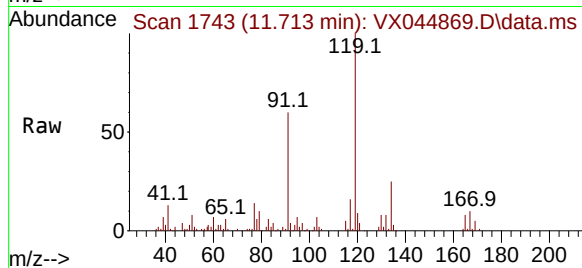
#83
tert-Butylbenzene
Concen: 5.068 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion:119 Resp: 31992
Ion Ratio Lower Upper
119 100
91 59.3 29.1 87.4
134 24.7 11.5 34.5

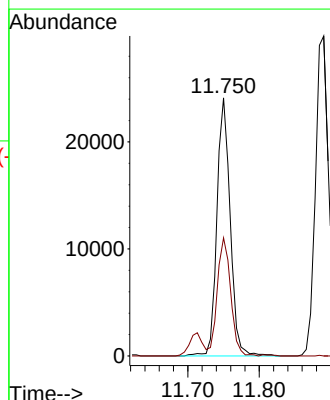
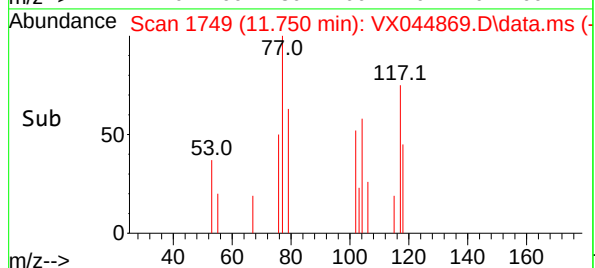
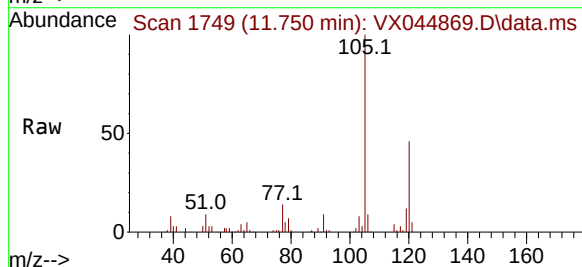
Manual Integrations
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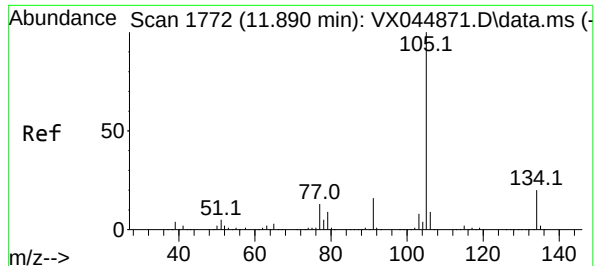
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#84
1,2,4-Trimethylbenzene
Concen: 5.042 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:105 Resp: 31053
Ion Ratio Lower Upper
105 100
120 46.2 22.4 67.0





#85

sec-Butylbenzene

Concen: 4.917 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:105 Resp: 3843

Ion Ratio Lower Upper

105 100

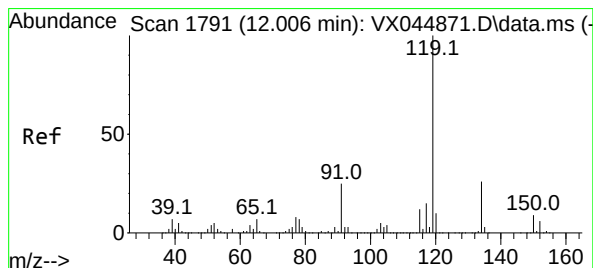
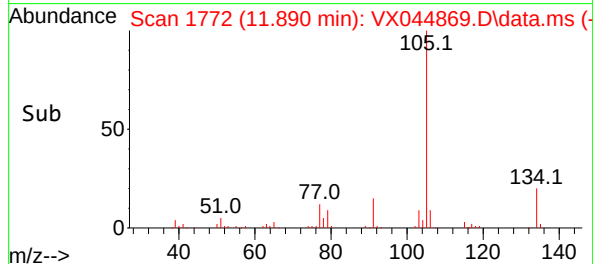
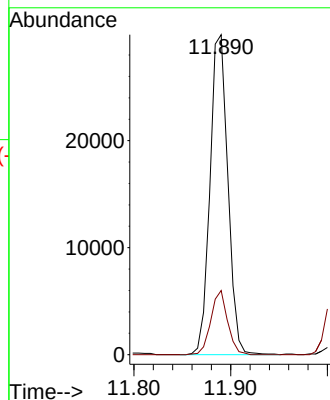
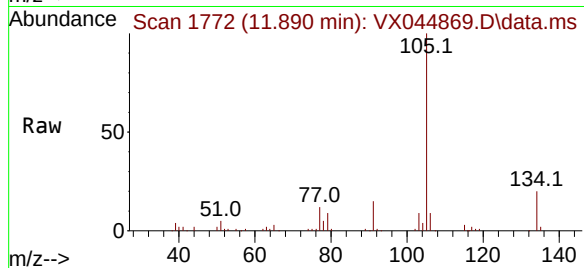
134 18.7 9.8 29.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#86

p-Isopropyltoluene

Concen: 4.905 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

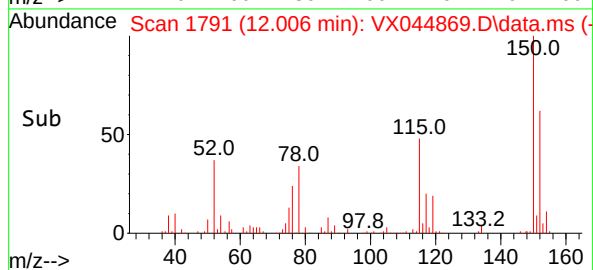
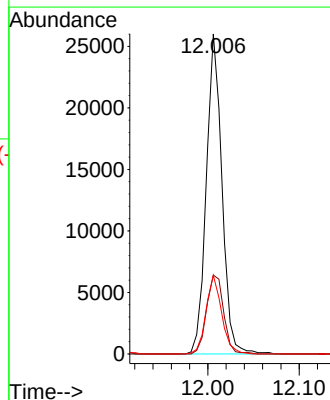
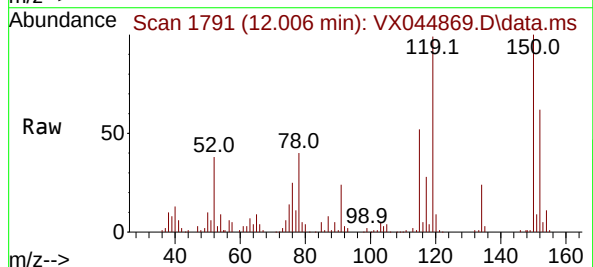
Tgt Ion:119 Resp: 30835

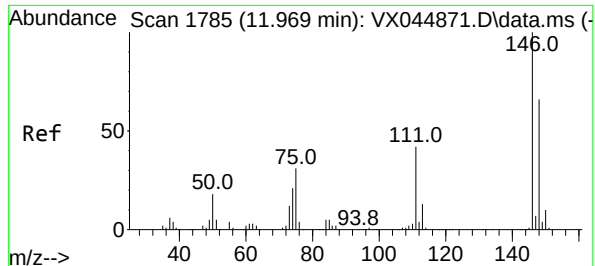
Ion Ratio Lower Upper

119 100

134 26.8 13.0 38.9

91 24.6 12.1 36.3





#87

1,3-Dichlorobenzene

Concen: 4.971 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

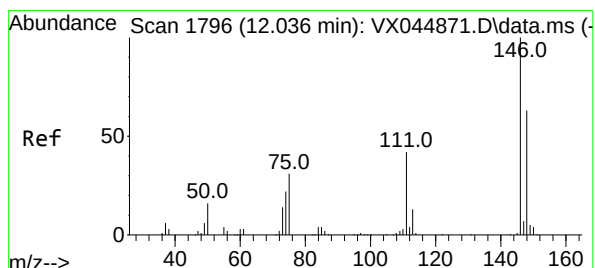
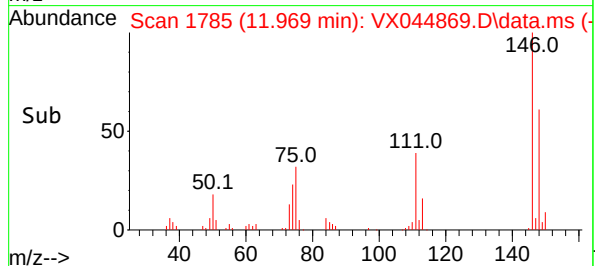
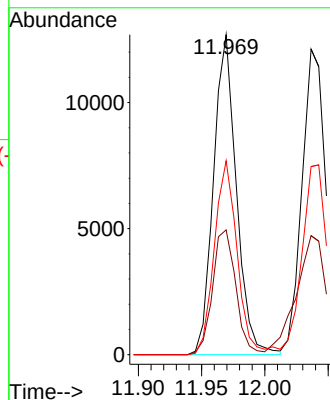
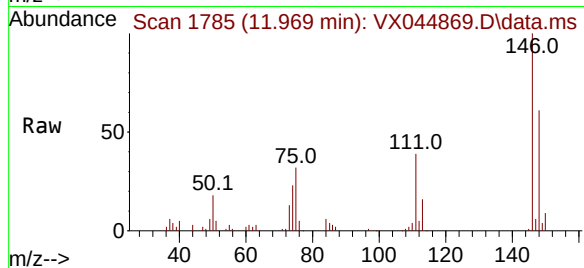
Tgt Ion:	146	Resp:	1593
Ion Ratio	Lower	Upper	
146	100		
111	39.8	21.2	63.6
148	60.0	32.5	97.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#88

1,4-Dichlorobenzene

Concen: 5.043 ug/l

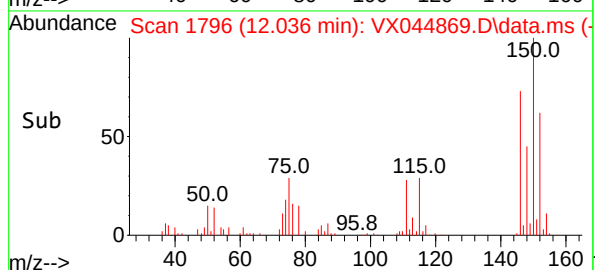
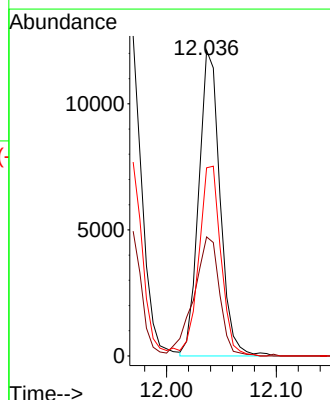
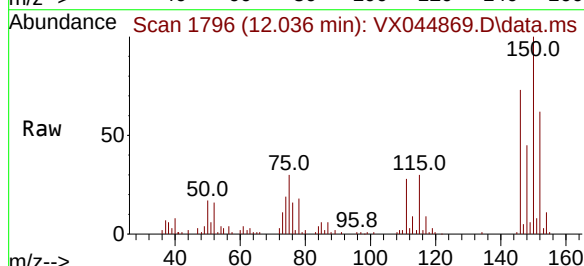
RT: 12.036 min Scan# 1796

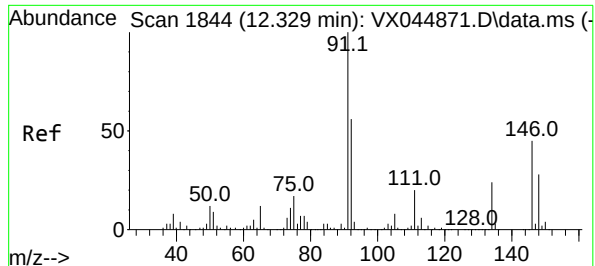
Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Tgt Ion:	146	Resp:	16347
Ion Ratio	Lower	Upper	
146	100		
111	47.4	20.4	61.3
148	65.3	32.0	96.0





#89

n-Butylbenzene

Concen: 4.630 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

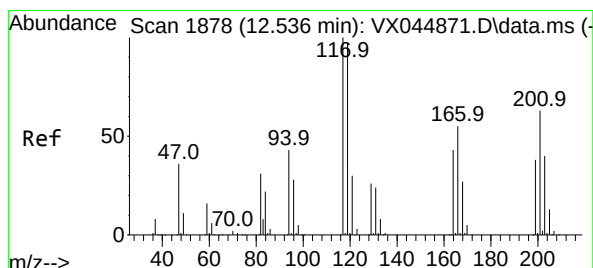
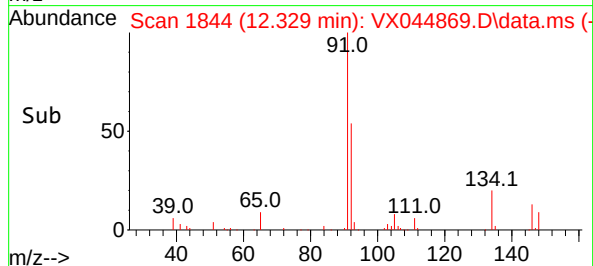
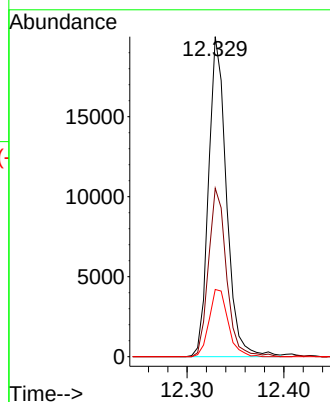
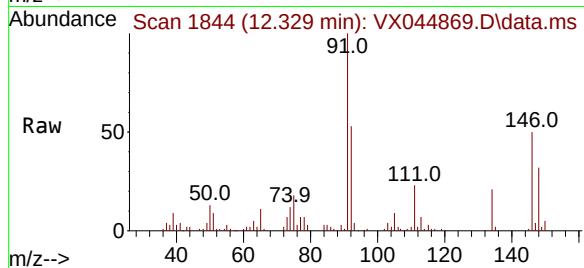
VSTDIC005

Tgt Ion:	91	Resp:	2574
Ion	Ratio	Lower	Upper
91	100		
92	52.8	27.2	81.6
134	22.3	12.1	36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#90

Hexachloroethane

Concen: 4.775 ug/l

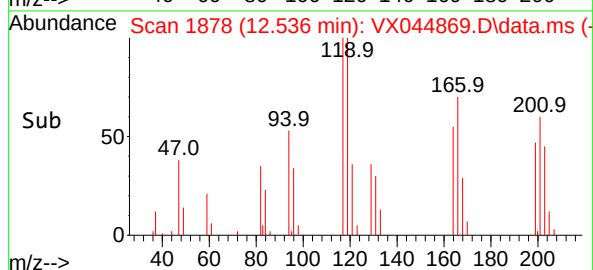
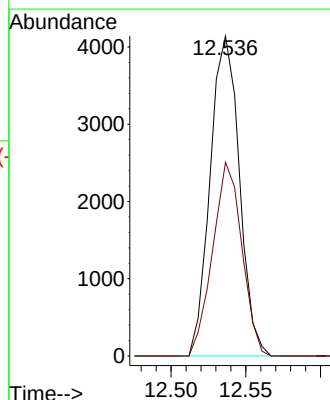
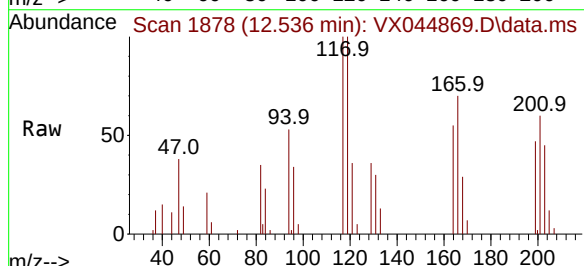
RT: 12.536 min Scan# 1878

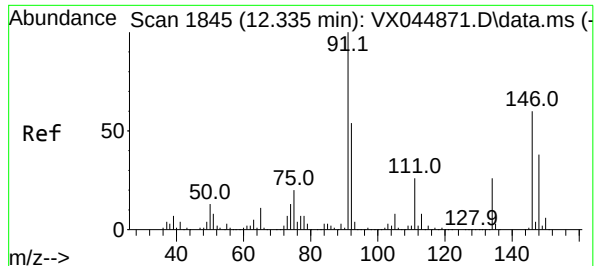
Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

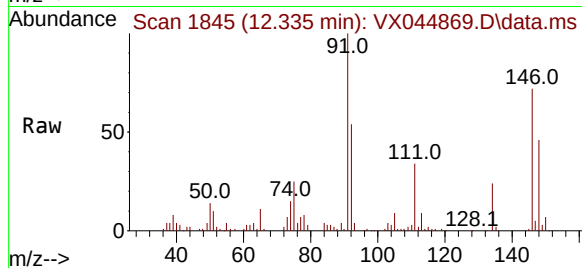
Tgt Ion:	117	Resp:	5620
Ion	Ratio	Lower	Upper
117	100		
201	60.6	32.5	97.5





#91
1,2-Dichlorobenzene
Concen: 5.193 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

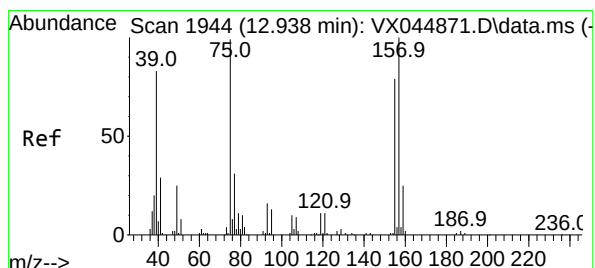
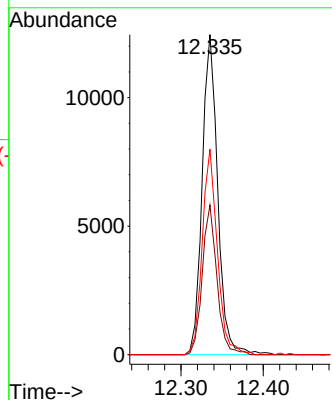
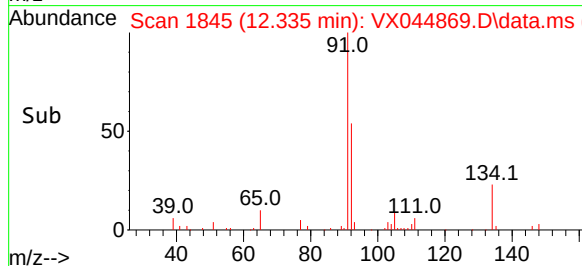
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion:146 Resp: 1636
Ion Ratio Lower Upper
146 100
111 44.3 21.8 65.4
148 62.7 31.9 95.9

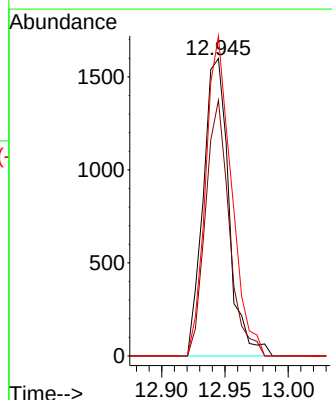
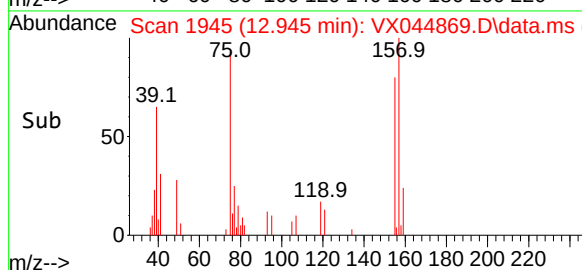
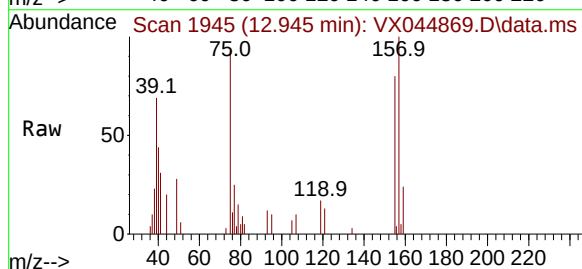
Manual Integrations
APPROVED

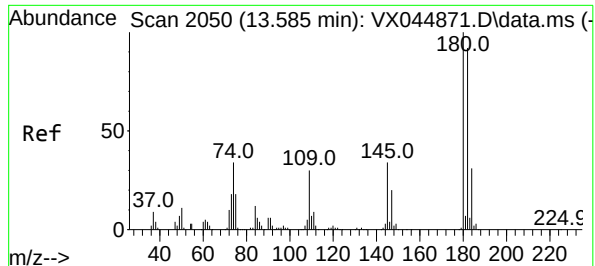
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 4.674 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

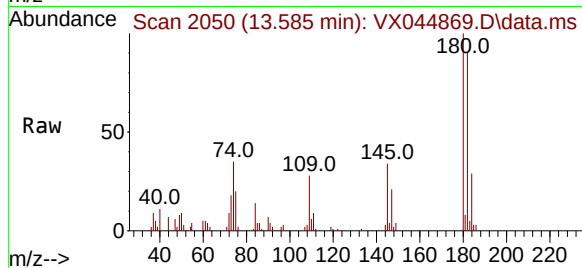
Tgt Ion: 75 Resp: 2254
Ion Ratio Lower Upper
75 100
155 80.0 40.5 121.4
157 108.1 51.4 154.3





#93
1,2,4-Trichlorobenzene
Concen: 4.680 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

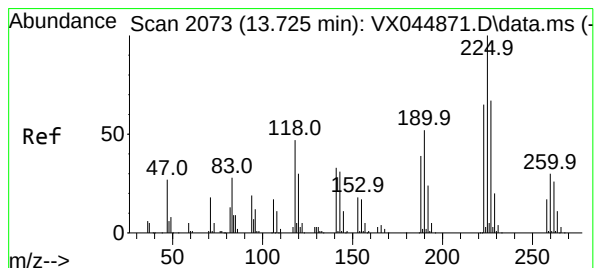
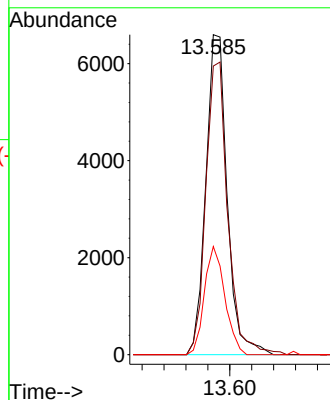
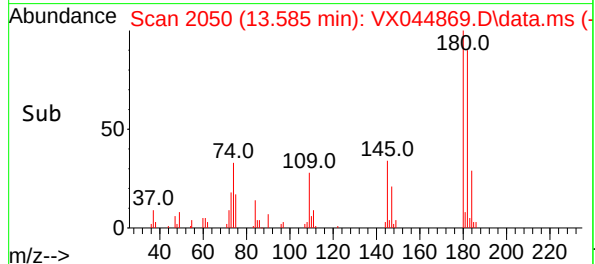
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion:180 Resp: 892.0
Ion Ratio Lower Upper
180 100
182 93.9 47.6 142.8
145 32.3 16.4 49.1

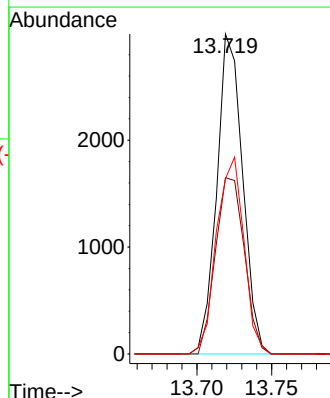
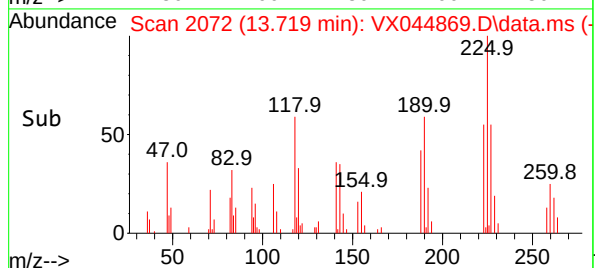
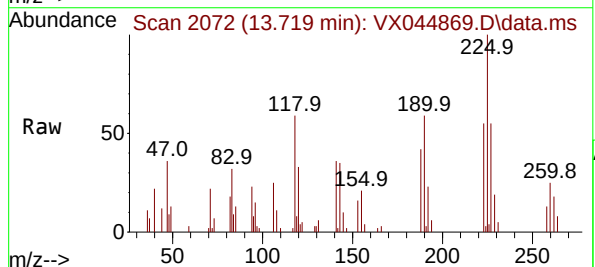
Manual Integrations
APPROVED

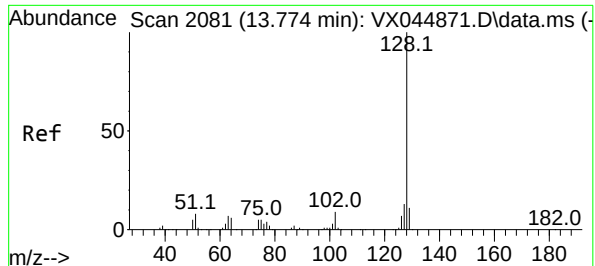
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#94
Hexachlorobutadiene
Concen: 4.750 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:225 Resp: 3595
Ion Ratio Lower Upper
225 100
223 61.5 31.4 94.2
227 65.1 32.3 96.8





#95

Naphthalene

Concen: 4.756 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

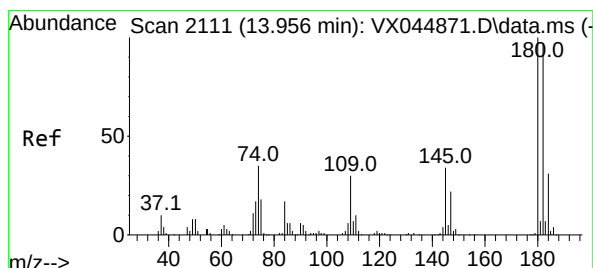
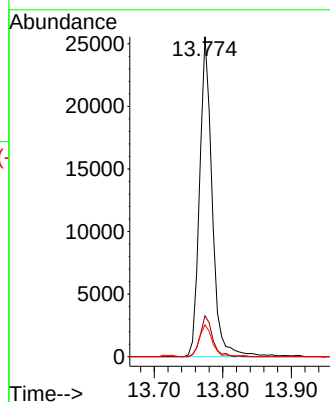
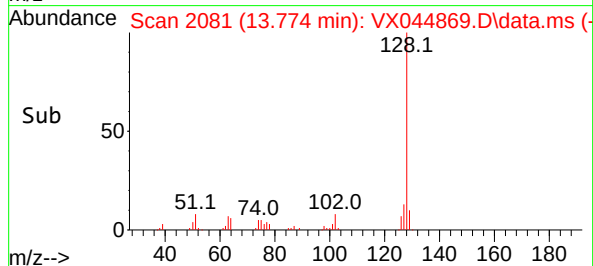
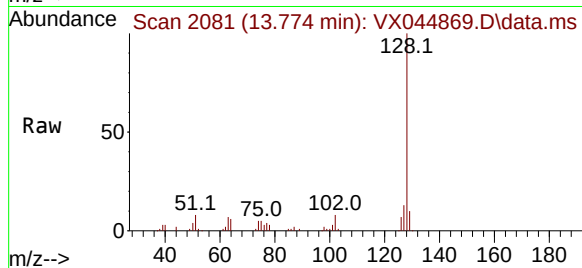
Tgt Ion:	128	Resp:	32770
Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.1	15.1
129	10.3	8.9	13.3

Manual Integrations

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Supervised By :Mahesh Dadoda 02/11/2025



#96

1,2,3-Trichlorobenzene

Concen: 4.733 ug/l

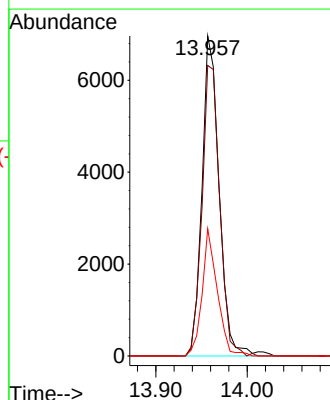
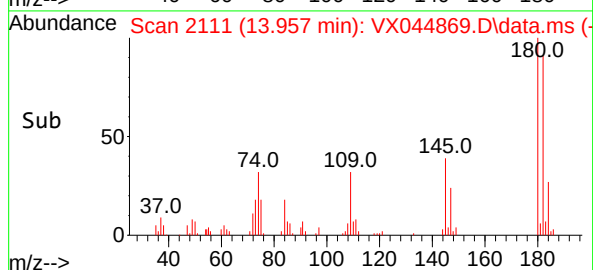
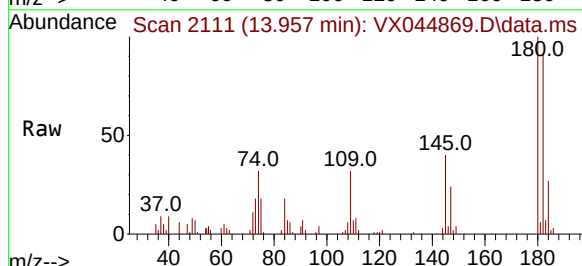
RT: 13.957 min Scan# 2111

Delta R.T. 0.000 min

Lab File: VX044869.D

Acq: 10 Feb 2025 10:48

Tgt Ion:	180	Resp:	9093
Ion	Ratio	Lower	Upper
180	100		
182	93.4	47.9	143.6
145	35.0	17.1	51.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044870.D
 Acq On : 10 Feb 2025 11:11
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 02:00:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 01:47:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	129532	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	234445	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	207667	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	92093	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	37195	19.616	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	39.240%#		
35) Dibromofluoromethane	5.379	113	30170	19.793	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	39.580%#		
50) Toluene-d8	8.647	98	117127	20.321	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	40.640%#		
62) 4-Bromofluorobenzene	11.079	95	38475	19.800	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	39.600%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.167	85	37123	20.434	ug/l	98
3) Chloromethane	1.301	50	44666	20.200	ug/l	95
4) Vinyl Chloride	1.374	62	43901	20.494	ug/l	99
5) Bromomethane	1.593	94	13057	20.369	ug/l	99
6) Chloroethane	1.660	64	14523	16.522	ug/l	94
7) Trichlorofluoromethane	1.868	101	56805	20.969	ug/l	98
8) Diethyl Ether	2.130	74	20699	21.069	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	34593	21.135	ug/l	99
10) Methyl Iodide	2.441	142	44749	21.096	ug/l	99
11) Tert butyl alcohol	2.989	59	35834	101.870	ug/l	100
12) 1,1-Dichloroethene	2.307	96	34270	20.526	ug/l	99
13) Acrolein	2.233	56	33914	93.445	ug/l	99
14) Allyl chloride	2.654	41	61485	20.377	ug/l	98
15) Acrylonitrile	3.063	53	98518	104.896	ug/l	98
16) Acetone	2.380	43	77078	101.119	ug/l	98
17) Carbon Disulfide	2.502	76	92552	20.216	ug/l	99
18) Methyl Acetate	2.703	43	47970	19.943	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	110377	20.779	ug/l	98
20) Methylene Chloride	2.782	84	38390	20.562	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	34064	20.730	ug/l	92
22) Diisopropyl ether	3.757	45	120300	21.074	ug/l	93
23) Vinyl Acetate	3.715	43	490239	105.341	ug/l	99
24) 1,1-Dichloroethane	3.599	63	66942	20.958	ug/l	99
25) 2-Butanone	4.556	43	130481	105.417	ug/l	96
26) 2,2-Dichloropropane	4.471	77	51803	20.451	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	42096	21.328	ug/l	97
28) Bromochloromethane	4.885	49	31474	20.504	ug/l	99
29) Tetrahydrofuran	5.001	42	86875	105.700	ug/l	99
30) Chloroform	5.087	83	65721	21.217	ug/l	98
31) Cyclohexane	5.458	56	60814	20.653	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	54450	20.724	ug/l	100
36) 1,1-Dichloropropene	5.684	75	45991	20.913	ug/l	99
37) Ethyl Acetate	4.715	43	51242	20.949	ug/l	99
38) Carbon Tetrachloride	5.666	117	44802	20.790	ug/l	99
39) Methylcyclohexane	7.373	83	62505	21.985	ug/l	98
40) Benzene	6.031	78	147912	21.540	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044870.D
 Acq On : 10 Feb 2025 11:11
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 02:00:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 01:47:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	27347	20.887	ug/l	94
42) 1,2-Dichloroethane	6.086	62	47095	21.519	ug/l	100
43) Isopropyl Acetate	6.336	43	84306	21.343	ug/l	99
44) Trichloroethene	7.123	130	34390	21.910	ug/l	96
45) 1,2-Dichloropropane	7.428	63	36510	21.371	ug/l	99
46) Dibromomethane	7.574	93	25300	21.354	ug/l	99
47) Bromodichloromethane	7.818	83	48202	21.012	ug/l	97
48) Methyl methacrylate	7.690	41	39747	21.341	ug/l	100
49) 1,4-Dioxane	7.665	88	17153	429.262	ug/l	99
51) 4-Methyl-2-Pentanone	8.574	43	263394	109.684	ug/l	99
52) Toluene	8.714	92	89726	21.940	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	48613	20.940	ug/l	98
54) cis-1,3-Dichloropropene	8.366	75	55026	21.259	ug/l	97
55) 1,1,2-Trichloroethane	9.147	97	33930	21.582	ug/l	98
56) Ethyl methacrylate	9.116	69	54674	21.533	ug/l	99
57) 1,3-Dichloropropane	9.305	76	60079	21.841	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	133072	106.736	ug/l	100
59) 2-Hexanone	9.427	43	190449	110.072	ug/l	98
60) Dibromochloromethane	9.519	129	35706	21.237	ug/l	99
61) 1,2-Dibromoethane	9.604	107	34463	21.628	ug/l	100
64) Tetrachloroethene	9.269	164	28519	21.776	ug/l	97
65) Chlorobenzene	10.073	112	94695	21.230	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	30344	21.136	ug/l	99
67) Ethyl Benzene	10.189	91	167865	21.327	ug/l	100
68) m/p-Xylenes	10.299	106	125271	43.144	ug/l	99
69) o-Xylene	10.640	106	62087	21.310	ug/l	97
70) Styrene	10.653	104	103740	22.101	ug/l	98
71) Bromoform	10.799	173	22592	21.086	ug/l #	99
73) Isopropylbenzene	10.957	105	160147	21.597	ug/l	99
74) N-amyl acetate	10.842	43	70542	21.023	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.213	83	52967	20.787	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	42040m	20.589	ug/l	
77) Bromobenzene	11.195	156	36021	21.426	ug/l	97
78) n-propylbenzene	11.299	91	183212	21.406	ug/l	99
79) 2-Chlorotoluene	11.360	91	111782	21.250	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	130526	21.691	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	15375	19.370	ug/l	96
82) 4-Chlorotoluene	11.451	91	122303	21.016	ug/l	100
83) tert-Butylbenzene	11.713	119	130358	21.414	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	130211	21.924	ug/l	100
85) sec-Butylbenzene	11.890	105	162875	21.607	ug/l	100
86) p-Isopropyltoluene	12.006	119	130643	21.551	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	64141	20.747	ug/l	100
88) 1,4-Dichlorobenzene	12.037	146	64889	20.758	ug/l	98
89) n-Butylbenzene	12.329	91	113705	21.202	ug/l	100
90) Hexachloroethane	12.536	117	23153	20.398	ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	64940	21.373	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	9873	21.230	ug/l	97
93) 1,2,4-Trichlorobenzene	13.585	180	37308	20.292	ug/l	99
94) Hexachlorobutadiene	13.725	225	15312	20.979	ug/l	96
95) Naphthalene	13.774	128	142902	21.502	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	38389	20.722	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044870.D
Acq On : 10 Feb 2025 11:11
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 02:00:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

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

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

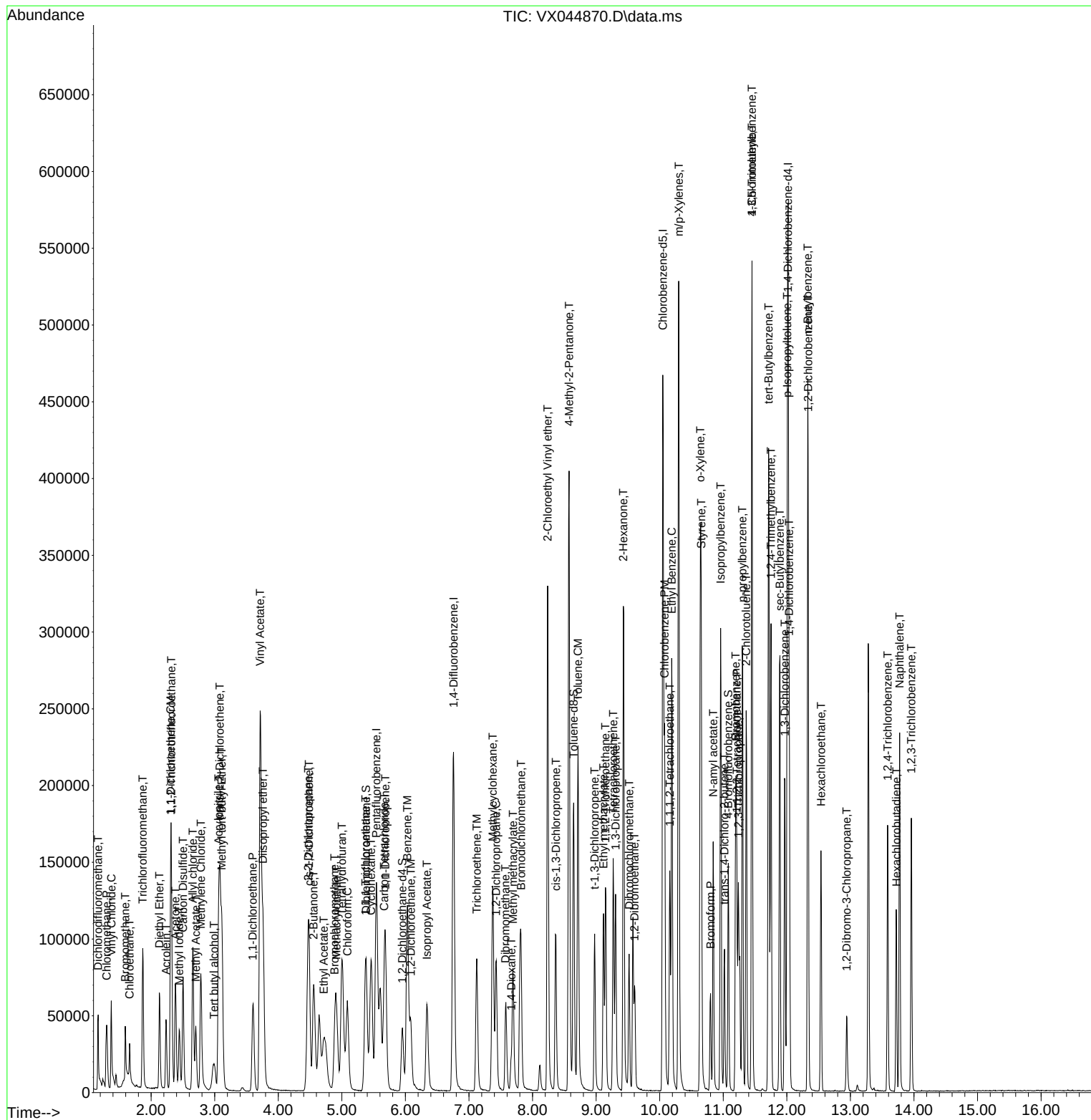
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044870.D
Acq On : 10 Feb 2025 11:11
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

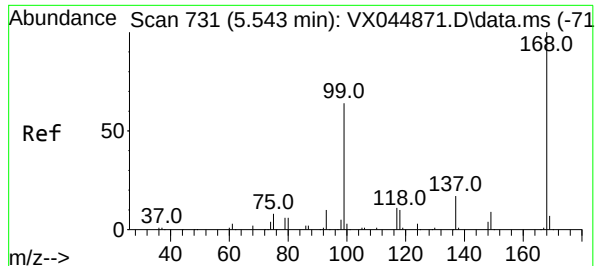
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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Reviewed By :John Carlone 02/11/2025
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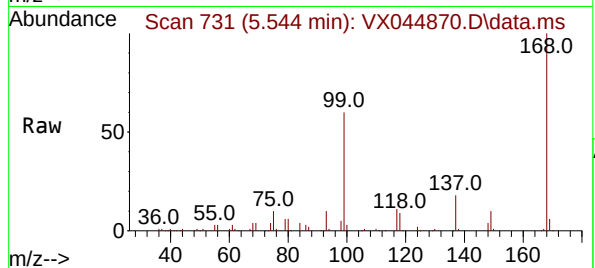
Quant Time: Feb 11 02:00:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. 0.001 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

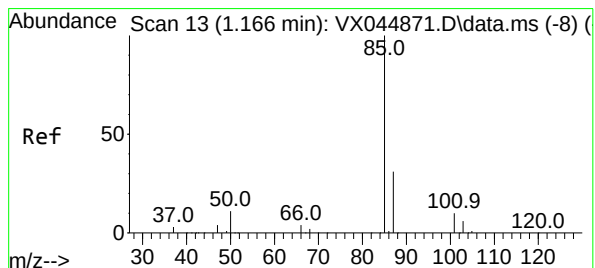
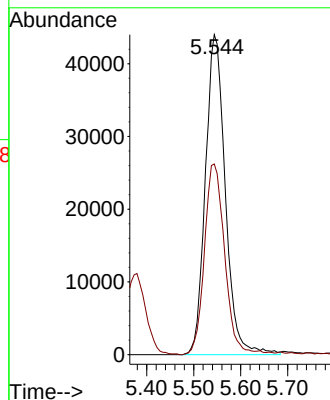
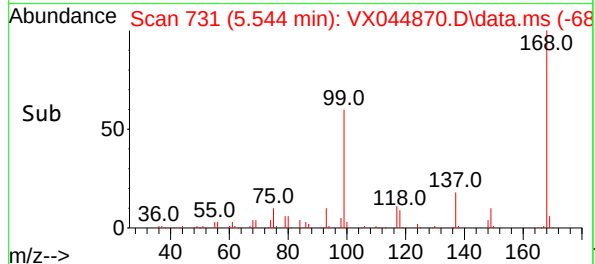
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:168 Resp: 12953
Ion Ratio Lower Upper
168 100
99 59.6 51.2 76.8

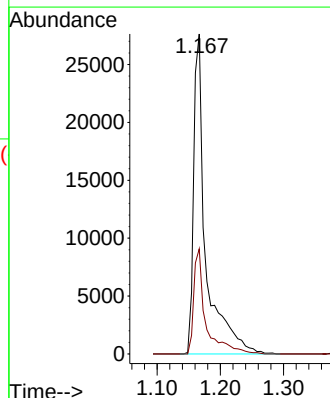
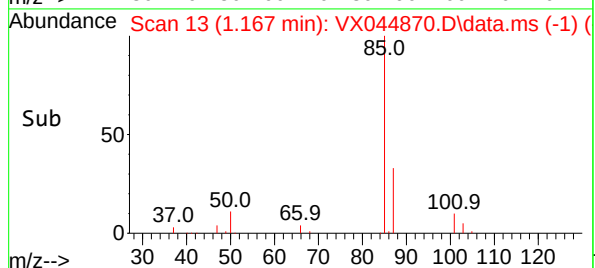
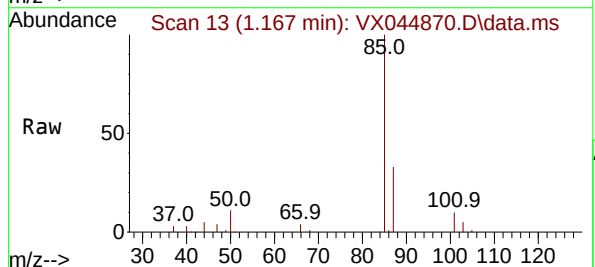
Manual Integrations
APPROVED

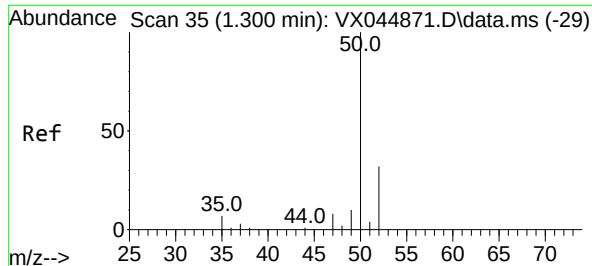
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#2
Dichlorodifluoromethane
Concen: 20.434 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 85 Resp: 37123
Ion Ratio Lower Upper
85 100
87 32.9 15.8 47.3





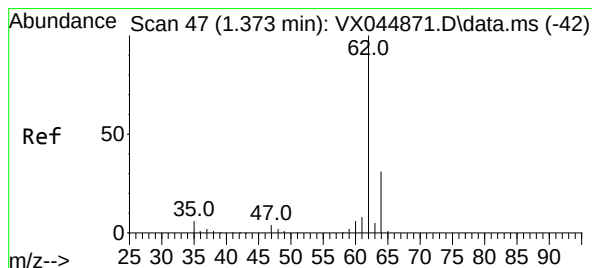
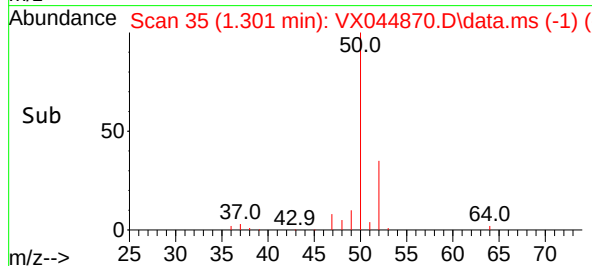
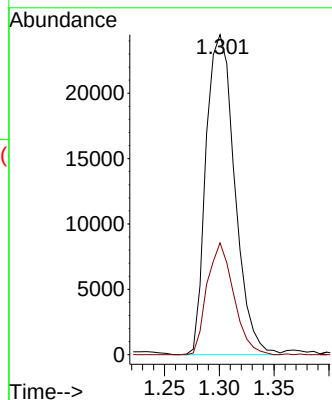
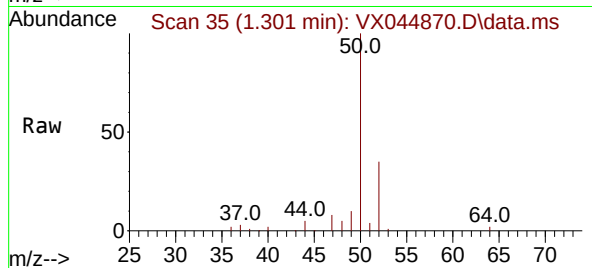
#3
Chloromethane
Concen: 20.200 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tgt Ion: 50 Resp: 44660
Ion Ratio Lower Upper
50 100
52 35.0 25.9 38.9

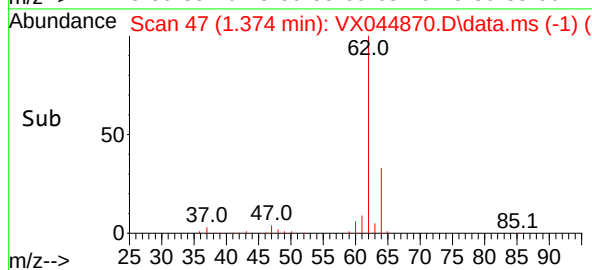
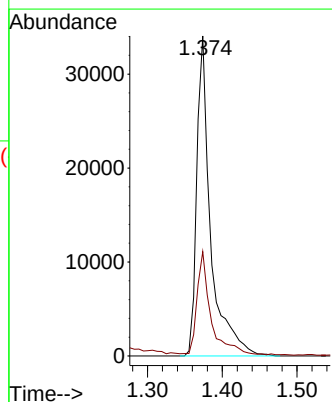
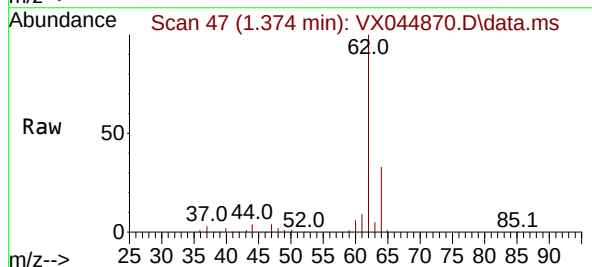
Manual Integrations
APPROVED

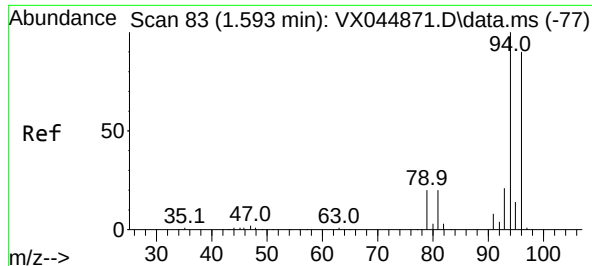
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#4
Vinyl Chloride
Concen: 20.494 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 62 Resp: 43901
Ion Ratio Lower Upper
62 100
64 32.2 25.4 38.0





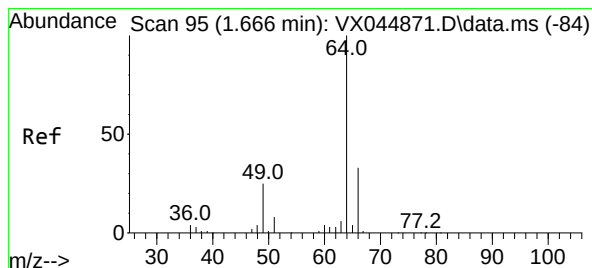
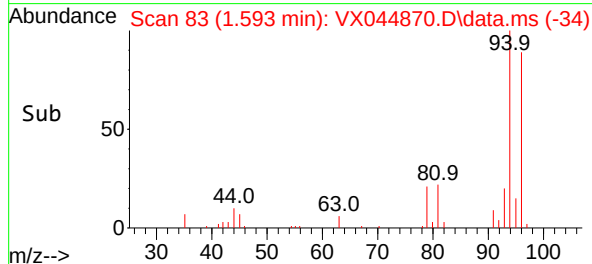
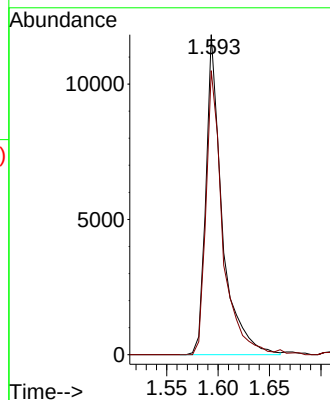
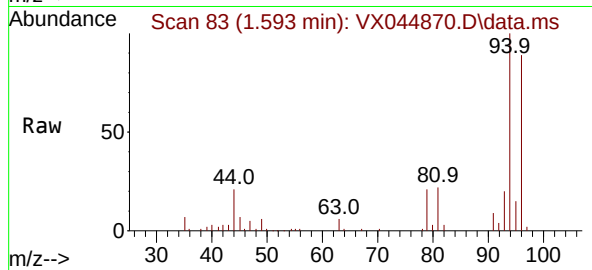
#5
Bromomethane
Concen: 20.369 ug/l
RT: 1.593 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 1305
Ion Ratio Lower Upper
94 100
96 88.8 71.6 107.4

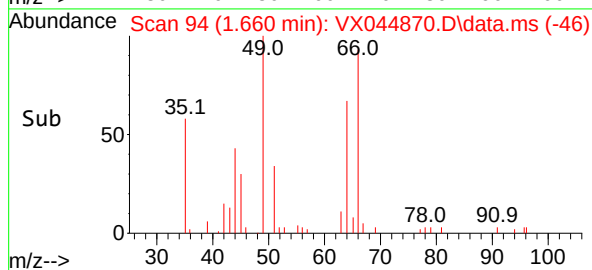
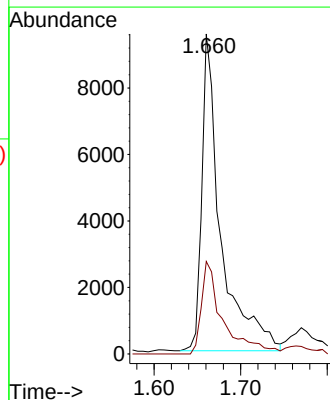
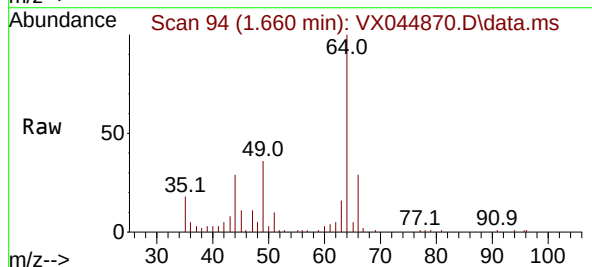
Manual Integrations
APPROVED

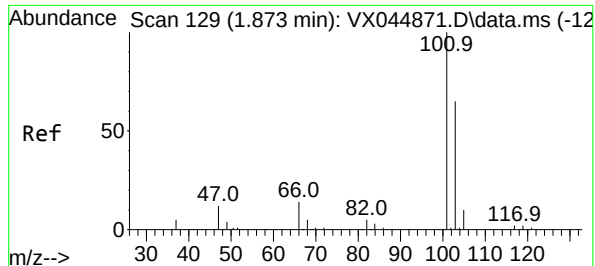
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#6
Chloroethane
Concen: 16.522 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 64 Resp: 14523
Ion Ratio Lower Upper
64 100
66 29.2 25.9 38.9





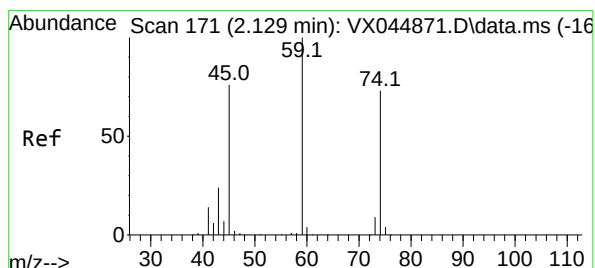
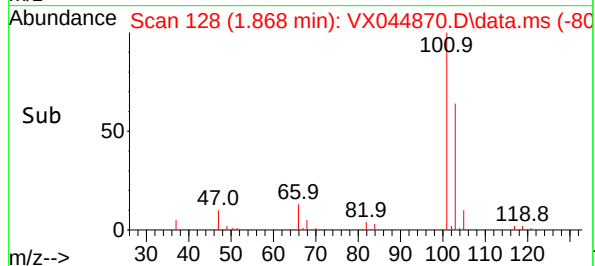
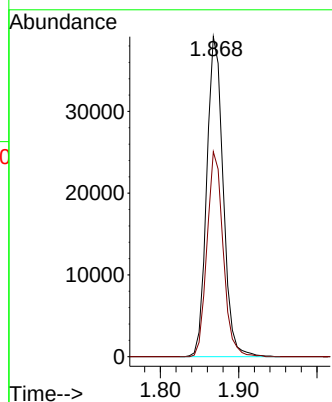
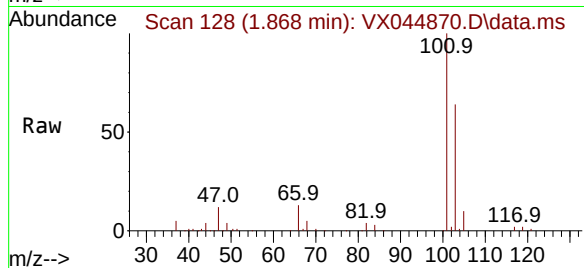
#7
Trichlorofluoromethane
Concen: 20.969 ug/l
RT: 1.868 min Scan# 129
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 5680
Ion Ratio Lower Upper
101 100
103 64.0 52.4 78.6

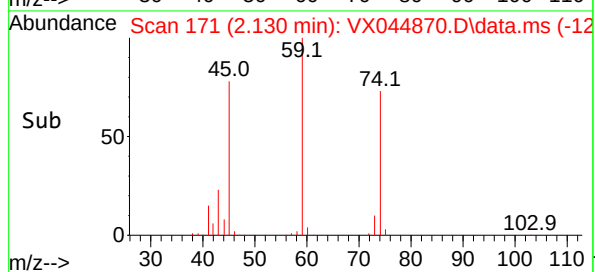
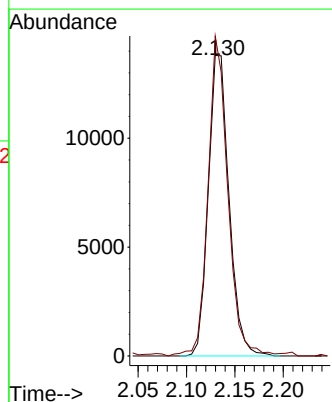
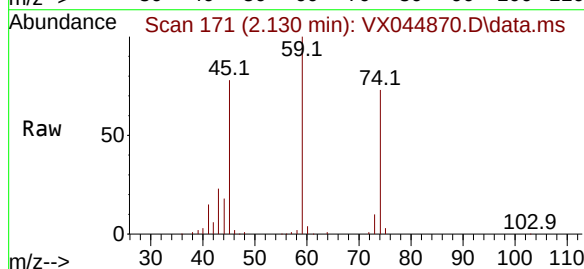
Manual Integrations
APPROVED

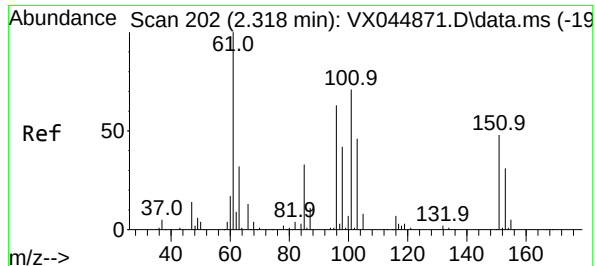
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#8
Diethyl Ether
Concen: 21.069 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 74 Resp: 20699
Ion Ratio Lower Upper
74 100
45 101.2 51.1 153.4





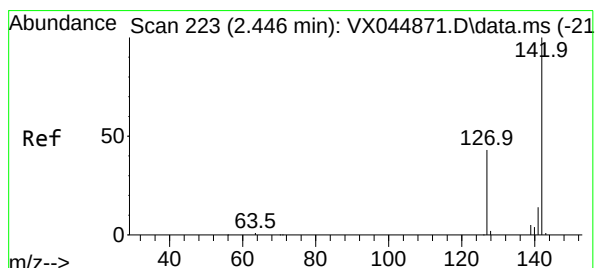
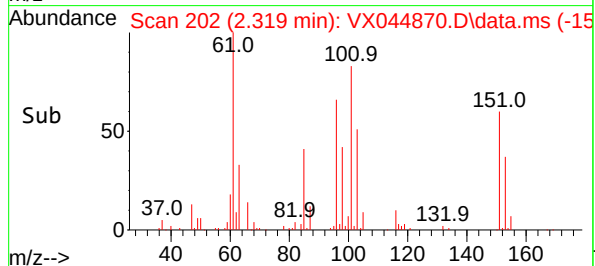
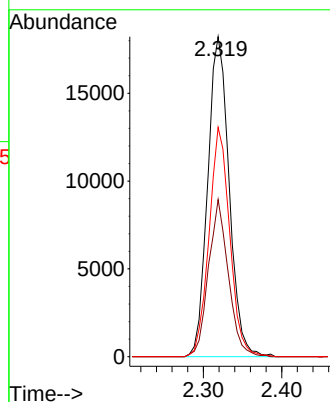
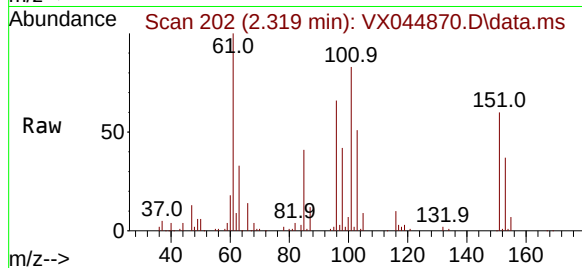
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.135 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tgt Ion:101 Resp: 3459
Ion Ratio Lower Upper
101 100
85 45.7 35.7 53.5
151 69.4 56.0 84.0

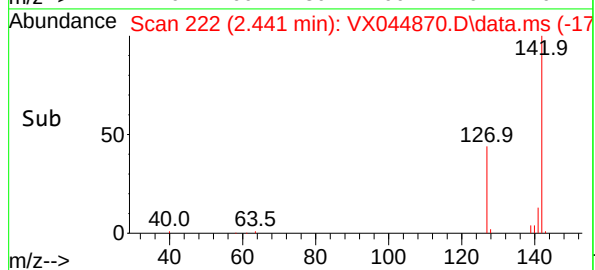
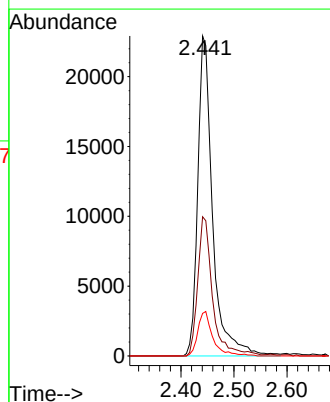
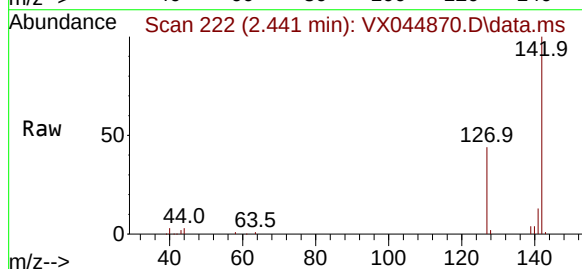
Manual Integrations
APPROVED

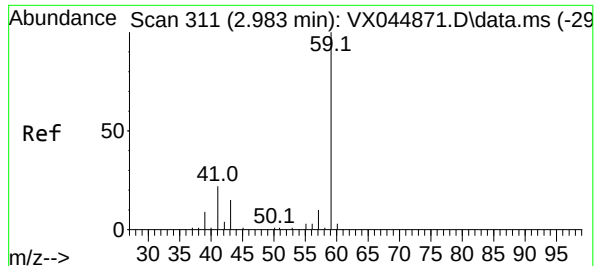
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#10
Methyl Iodide
Concen: 21.096 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:142 Resp: 44749
Ion Ratio Lower Upper
142 100
127 43.4 34.3 51.5
141 14.0 11.4 17.2





#11

Tert butyl alcohol

Concen: 101.870 ug/l

RT: 2.989 min Scan# 311

Delta R.T. 0.007 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 59 Resp: 35834

Ion Ratio Lower Upper

59 100

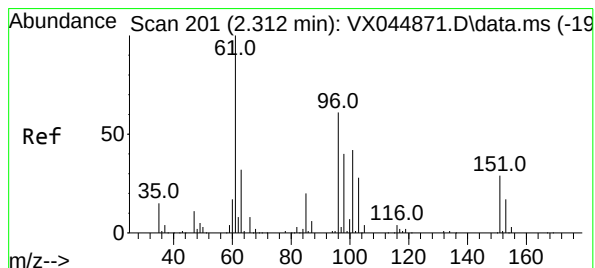
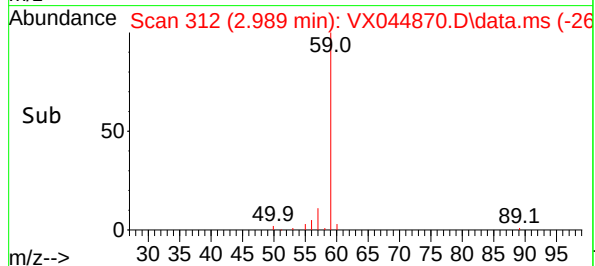
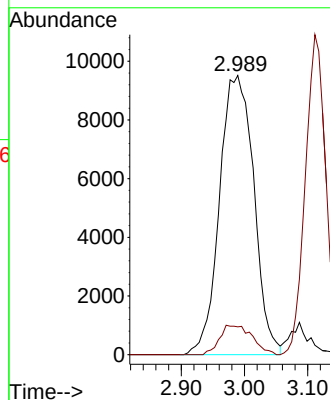
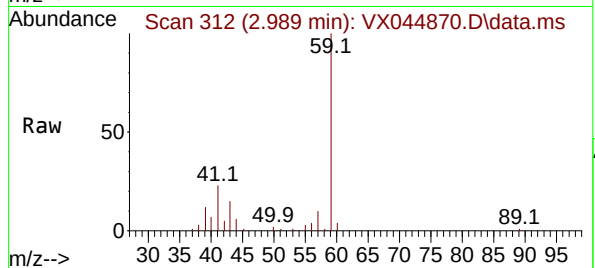
57 10.0 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#12

1,1-Dichloroethene

Concen: 20.526 ug/l

RT: 2.307 min Scan# 200

Delta R.T. -0.006 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

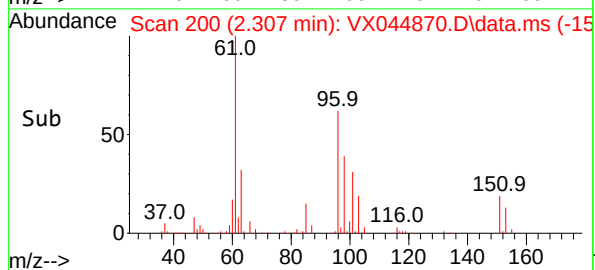
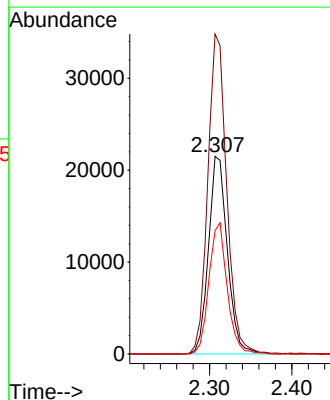
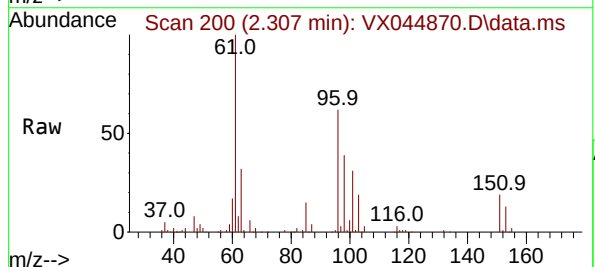
Tgt Ion: 96 Resp: 34270

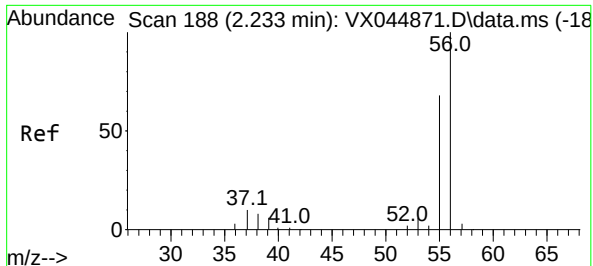
Ion Ratio Lower Upper

96 100

61 161.9 130.2 195.4

98 62.4 52.2 78.4





#13

Acrolein

Concen: 93.445 ug/l

RT: 2.233 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 56 Resp: 33914

Ion Ratio Lower Upper

56 100

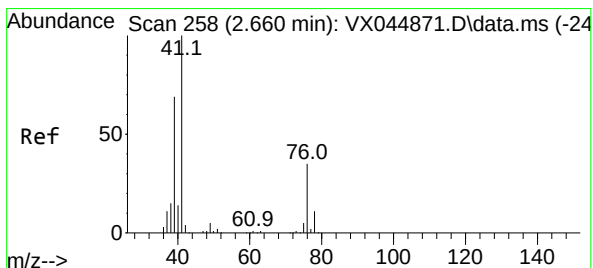
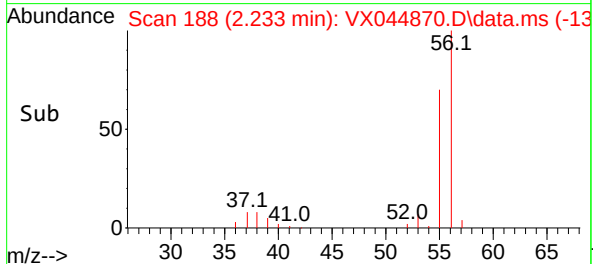
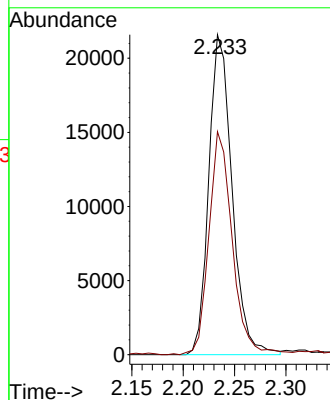
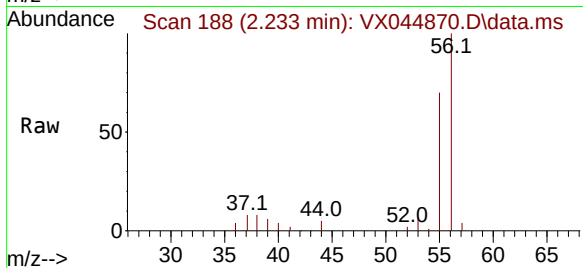
55 70.1 55.7 83.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#14

Allyl chloride

Concen: 20.377 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.006 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

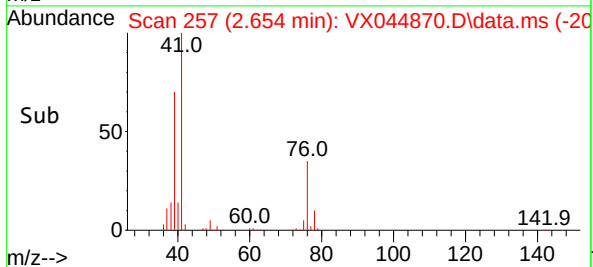
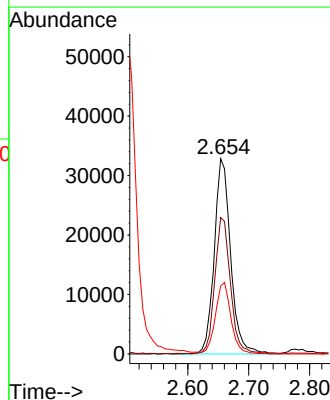
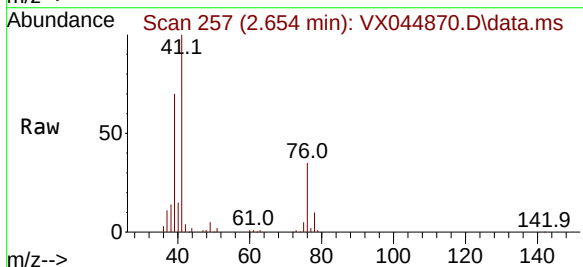
Tgt Ion: 41 Resp: 61485

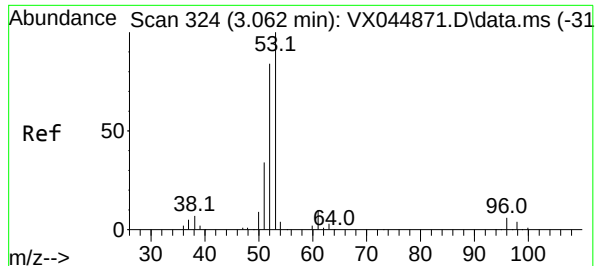
Ion Ratio Lower Upper

41 100

39 65.8 51.4 77.2

76 34.9 27.0 40.4





#15

Acrylonitrile

Concen: 104.896 ug/l

RT: 3.063 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

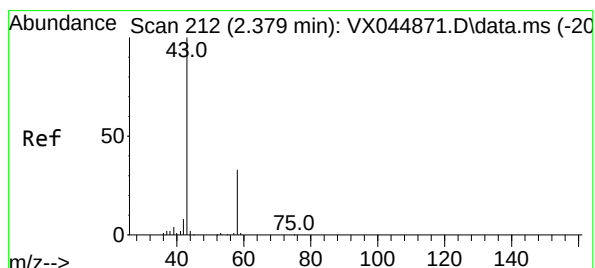
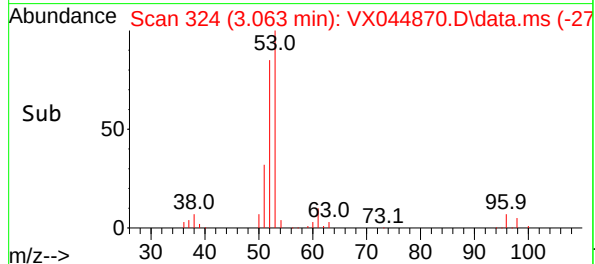
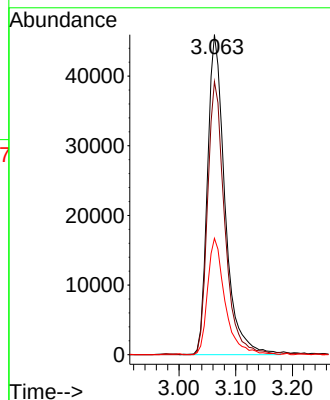
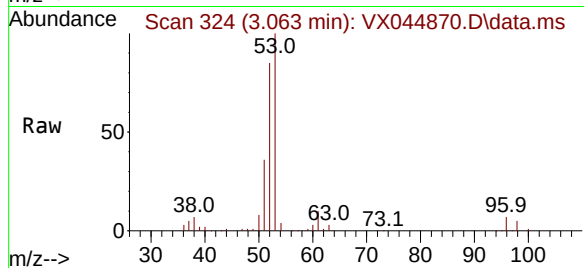
Tgt Ion:	53	Resp:	98518
Ion	Ratio	Lower	Upper
53	100		
52	83.5	65.0	97.6
51	36.3	28.0	42.0

Manual Integrations

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Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#16

Acetone

Concen: 101.119 ug/l

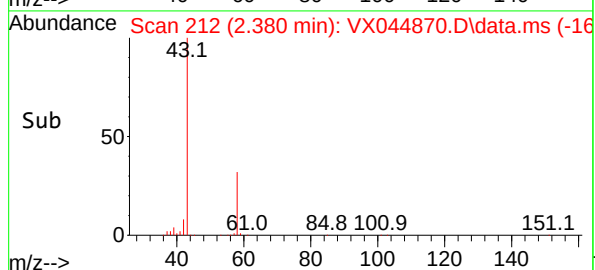
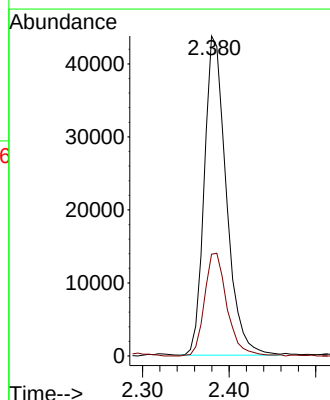
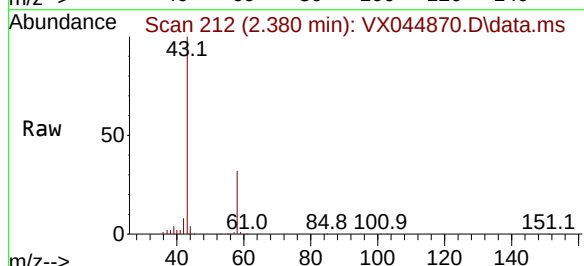
RT: 2.380 min Scan# 212

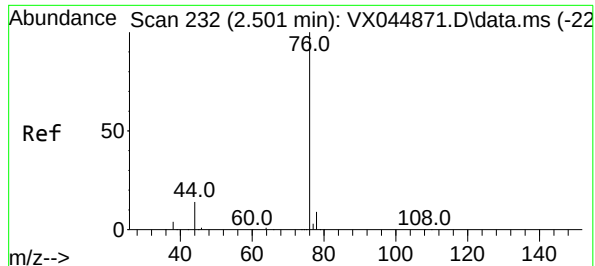
Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Tgt Ion:	43	Resp:	77078
Ion	Ratio	Lower	Upper
43	100		
58	31.9	26.5	39.7





#17

Carbon Disulfide

Concen: 20.216 ug/l

RT: 2.502 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 92552

Ion Ratio Lower Upper

76 100

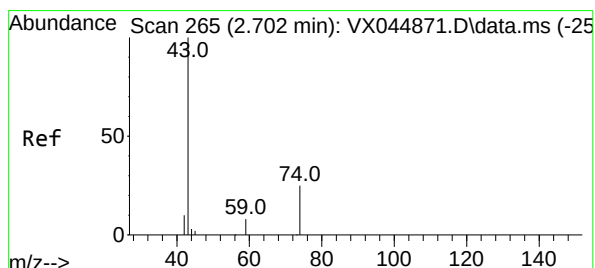
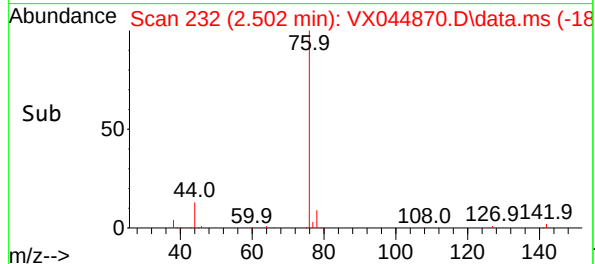
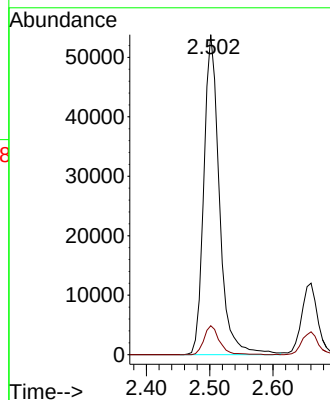
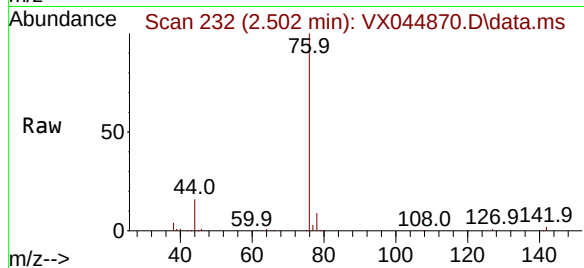
78 9.0 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#18

Methyl Acetate

Concen: 19.943 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX044870.D

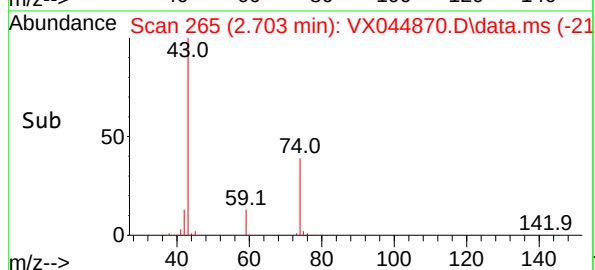
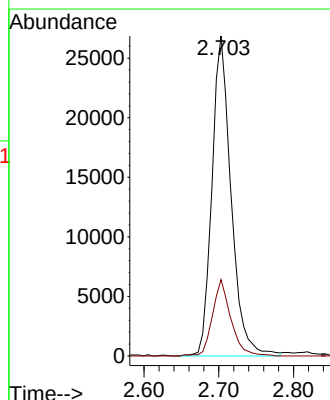
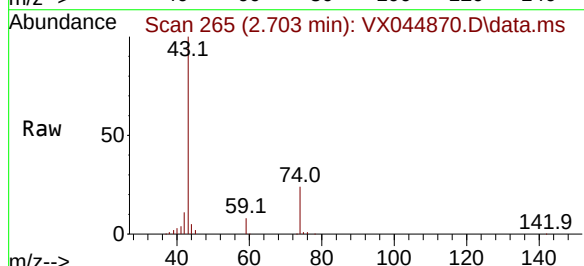
Acq: 10 Feb 2025 11:11

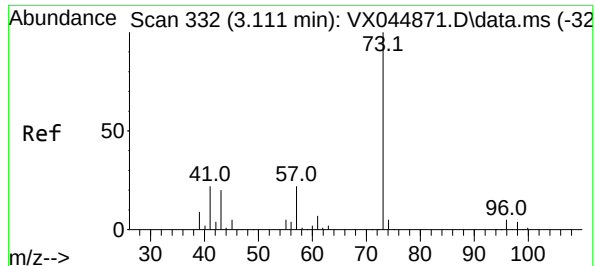
Tgt Ion: 43 Resp: 47970

Ion Ratio Lower Upper

43 100

74 22.9 18.9 28.3





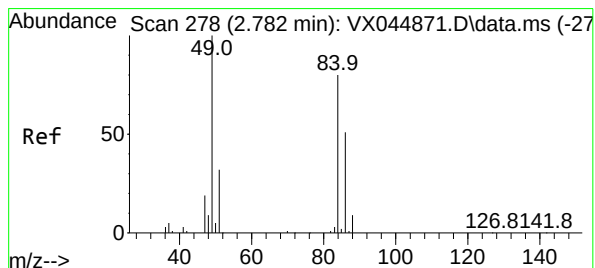
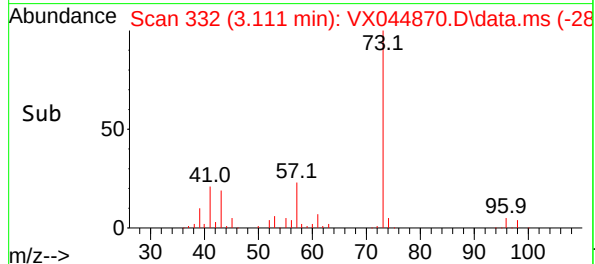
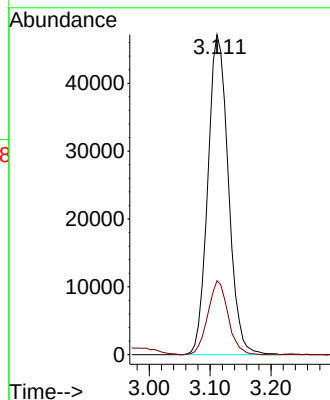
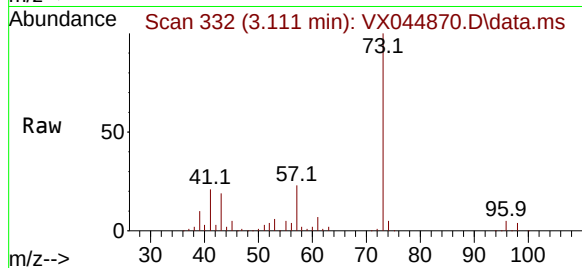
#19
Methyl tert-butyl Ether
Concen: 20.779 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 11037
Ion Ratio Lower Upper
73 100
57 23.1 17.9 26.9

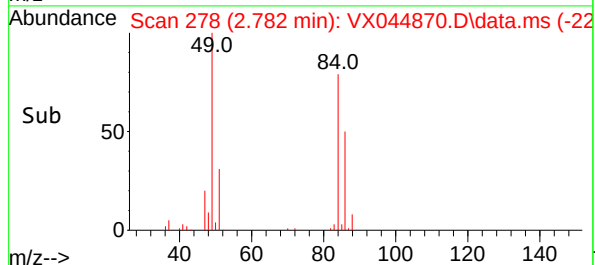
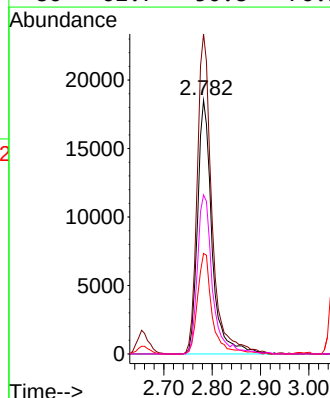
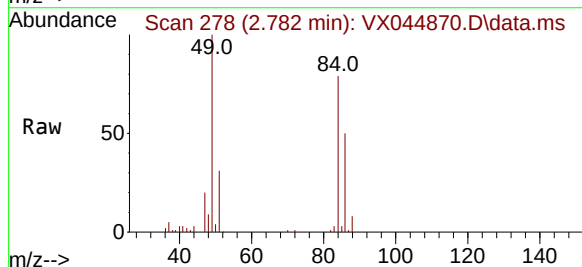
Manual Integrations
APPROVED

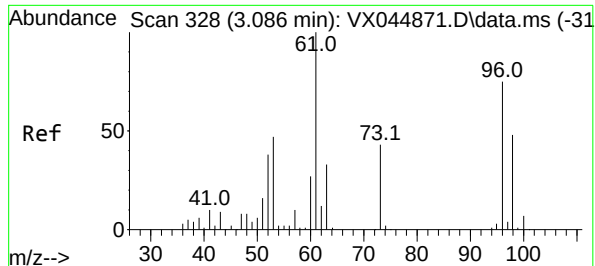
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#20
Methylene Chloride
Concen: 20.562 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

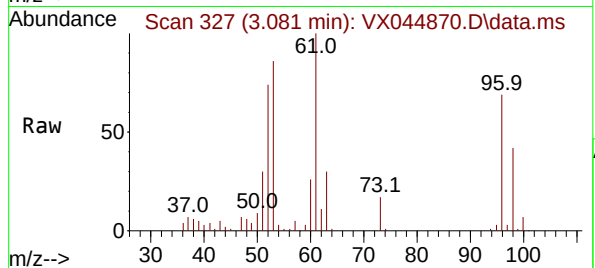
Tgt Ion: 84 Resp: 38390
Ion Ratio Lower Upper
84 100
49 126.2 100.1 150.1
51 39.6 31.7 47.5
86 62.7 50.8 76.2





#21
trans-1,2-Dichloroethene
Concen: 20.730 ug/l
RT: 3.081 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

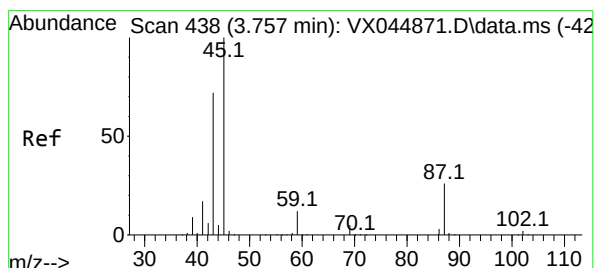
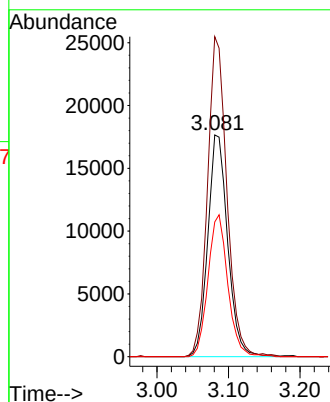
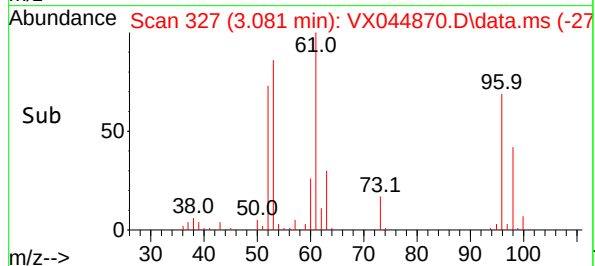
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 96 Resp: 34064
Ion Ratio Lower Upper
96 100
61 144.3 106.0 159.0
98 60.8 50.6 76.0

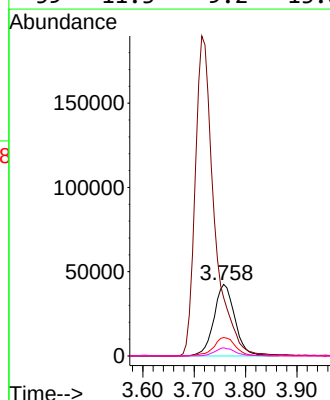
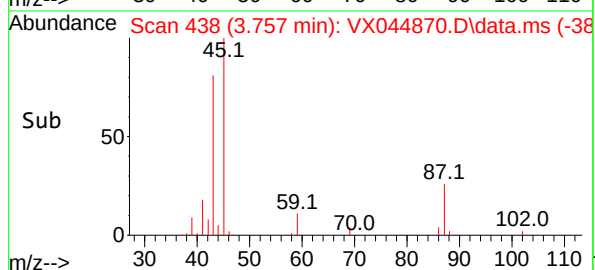
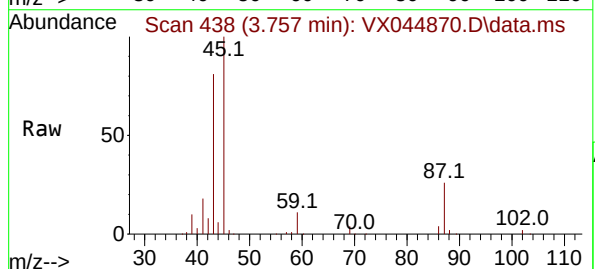
Manual Integrations
APPROVED

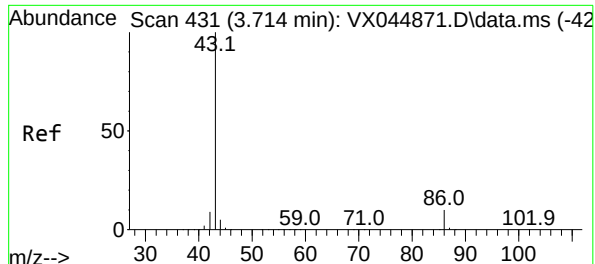
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#22
Diisopropyl ether
Concen: 21.074 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 45 Resp: 120300
Ion Ratio Lower Upper
45 100
43 80.8 58.0 87.0
87 25.8 20.7 31.1
59 11.3 9.2 13.8





#23

Vinyl Acetate

Concen: 105.341 ug/l

RT: 3.715 min Scan# 411

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 490239

Ion Ratio Lower Upper

43 100

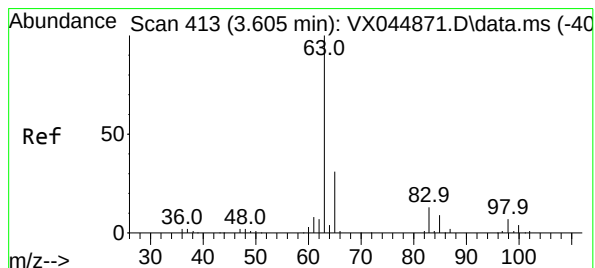
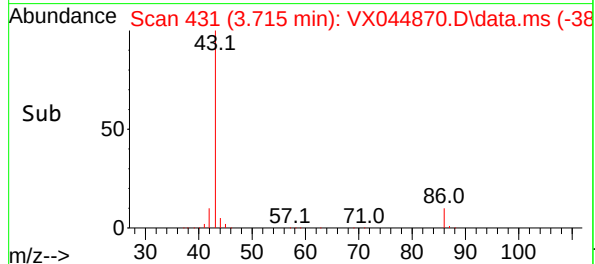
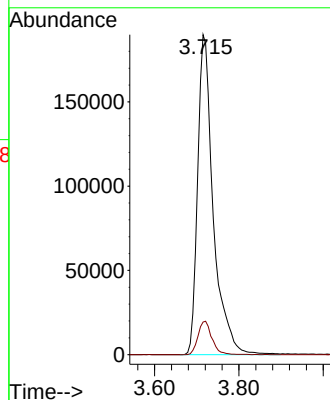
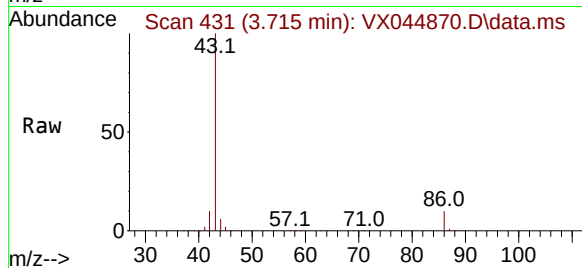
86 10.2 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#24

1,1-Dichloroethane

Concen: 20.958 ug/l

RT: 3.599 min Scan# 412

Delta R.T. -0.006 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

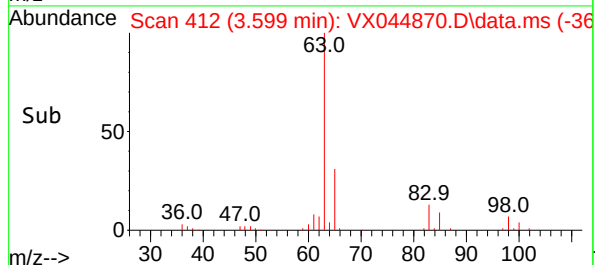
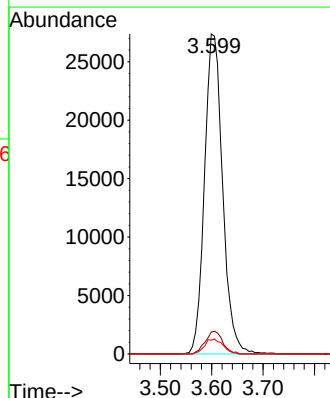
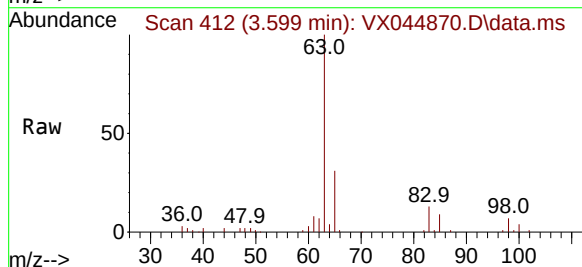
Tgt Ion: 63 Resp: 66942

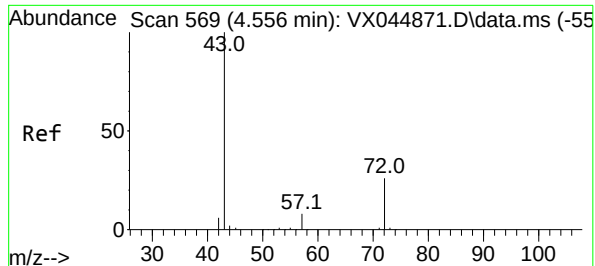
Ion Ratio Lower Upper

63 100

98 6.9 3.3 9.9

100 4.3 2.1 6.5





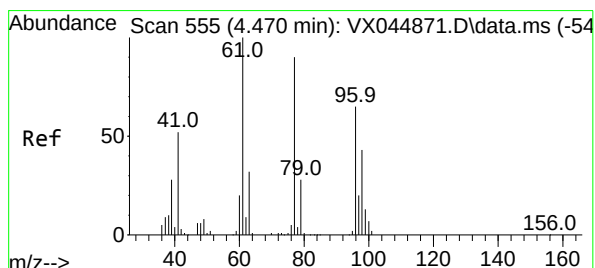
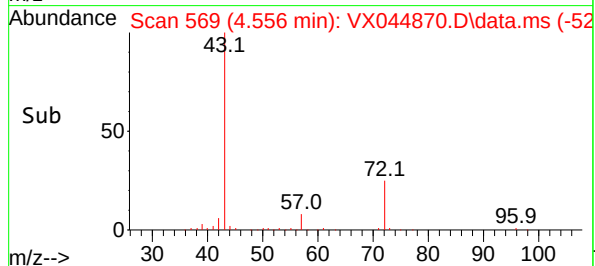
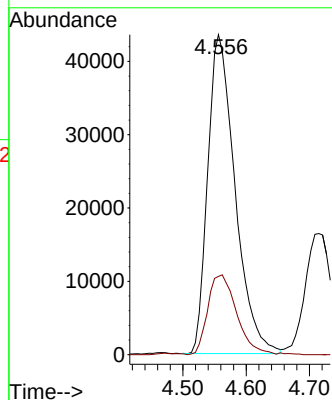
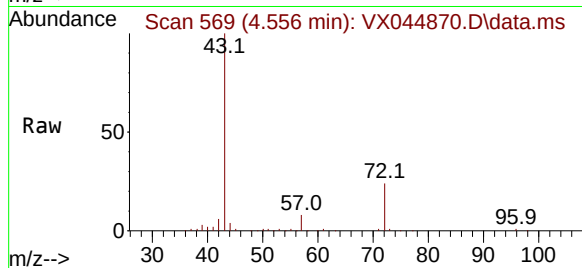
#25
2-Butanone
Concen: 105.417 ug/l
RT: 4.556 min Scan# 509
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 13048
Ion Ratio Lower Upper
43 100
72 24.2 21.2 31.8

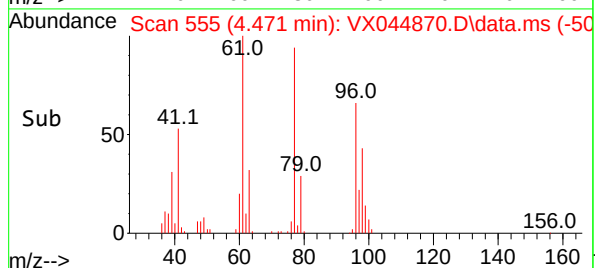
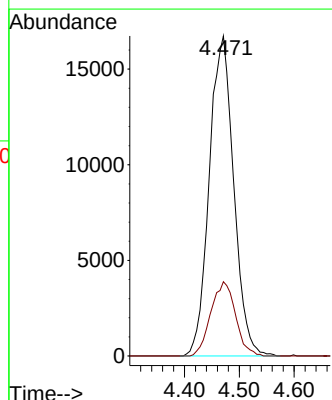
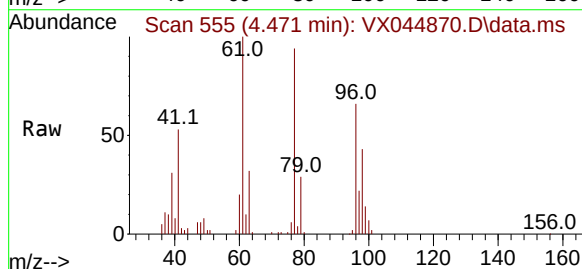
Manual Integrations
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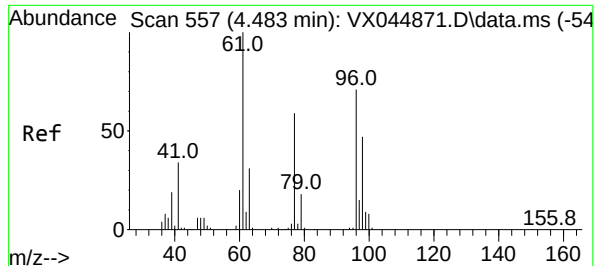
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#26
2,2-Dichloropropane
Concen: 20.451 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 77 Resp: 51803
Ion Ratio Lower Upper
77 100
97 23.4 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 21.328 ug/l

RT: 4.483 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 96 Resp: 42090

Ion Ratio Lower Upper

96 100

61 143.8 0.0 294.0

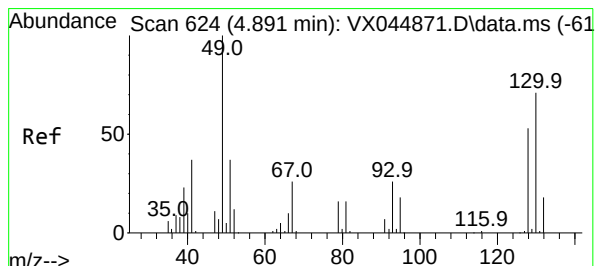
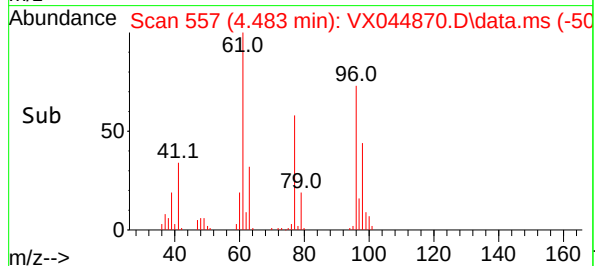
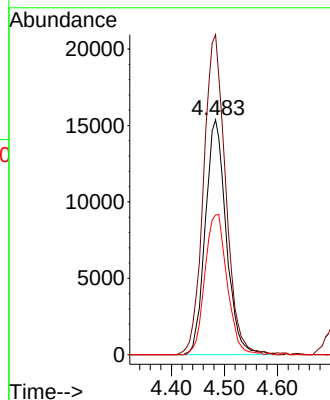
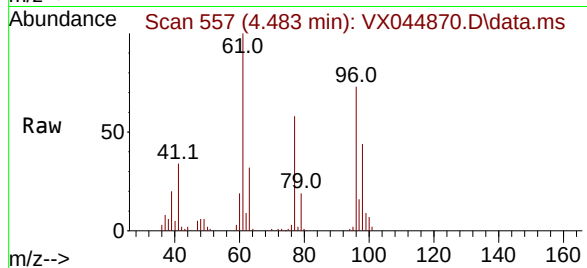
98 63.4 0.0 131.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#28

Bromochloromethane

Concen: 20.504 ug/l

RT: 4.885 min Scan# 623

Delta R.T. -0.006 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

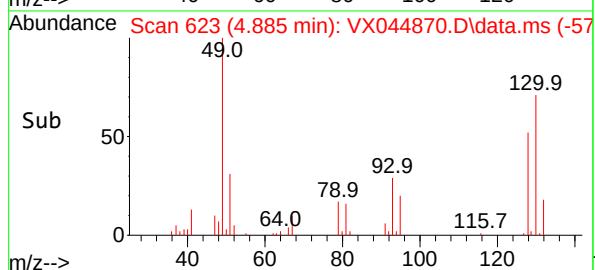
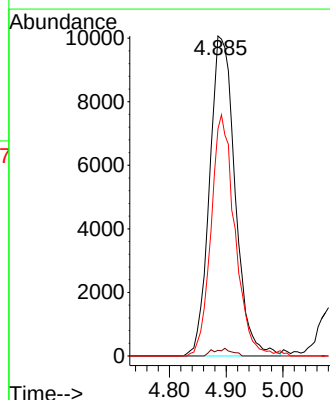
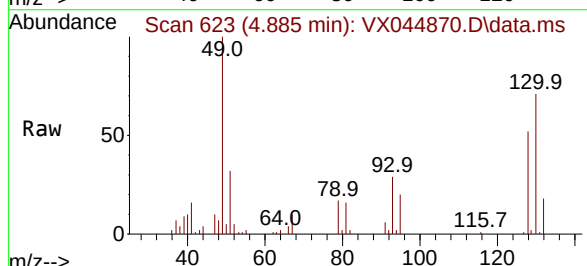
Tgt Ion: 49 Resp: 31474

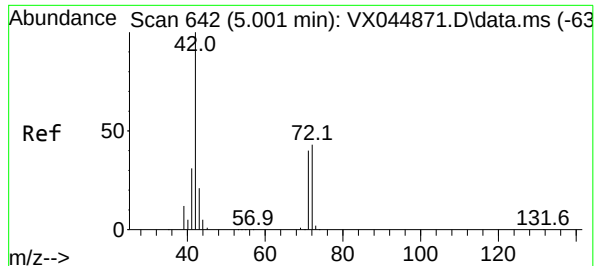
Ion Ratio Lower Upper

49 100

129 1.7 0.0 3.6

130 70.3 56.7 85.1





#29

Tetrahydrofuran

Concen: 105.700 ug/l

RT: 5.001 min Scan# 642

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 42 Resp: 8687

Ion Ratio Lower Upper

42 100

72 44.9 35.0 52.4

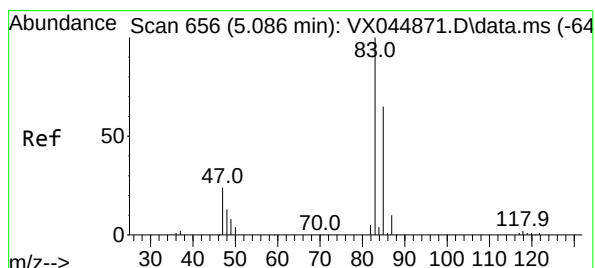
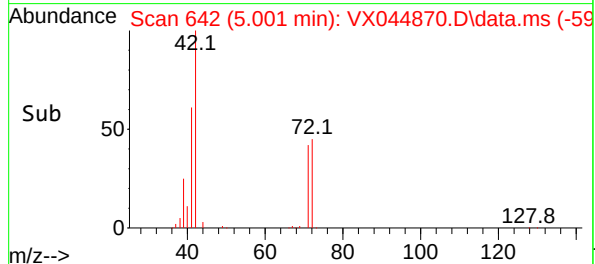
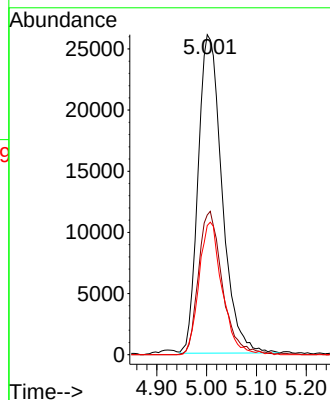
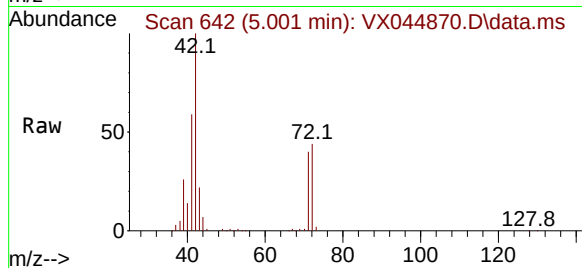
71 40.4 32.6 48.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#30

Chloroform

Concen: 21.217 ug/l

RT: 5.087 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX044870.D

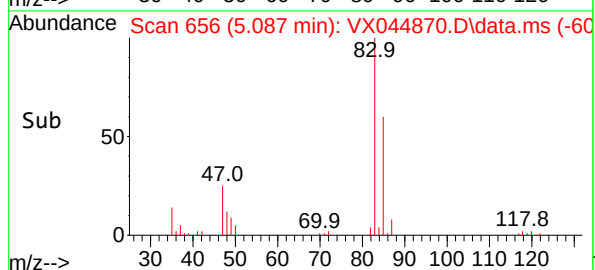
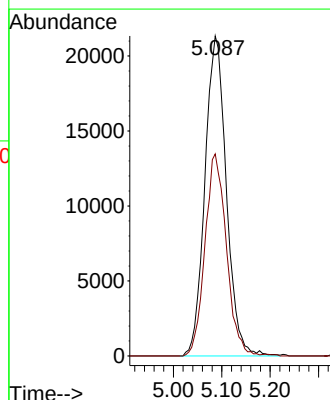
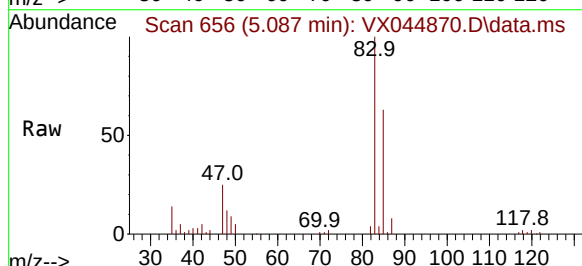
Acq: 10 Feb 2025 11:11

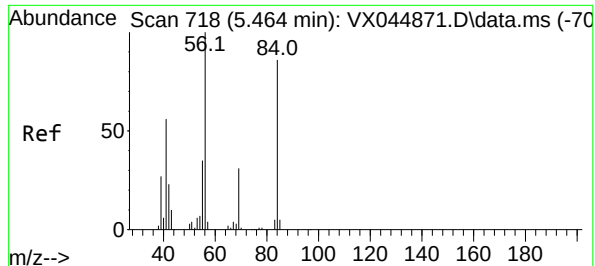
Tgt Ion: 83 Resp: 65721

Ion Ratio Lower Upper

83 100

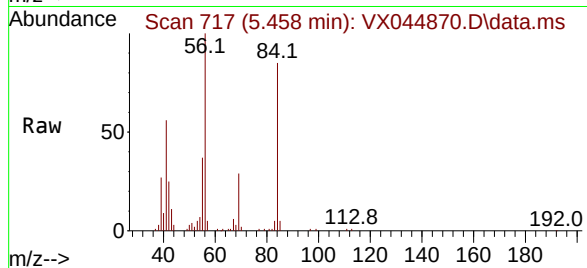
85 63.2 52.1 78.1





#31
Cyclohexane
Concen: 20.653 ug/l
RT: 5.458 min Scan# 717
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

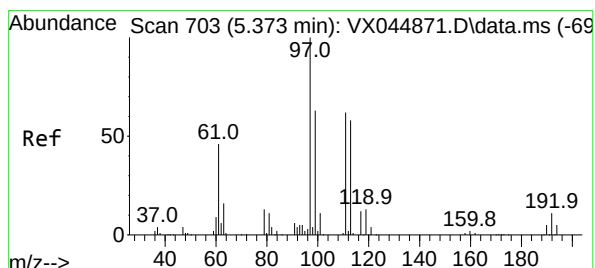
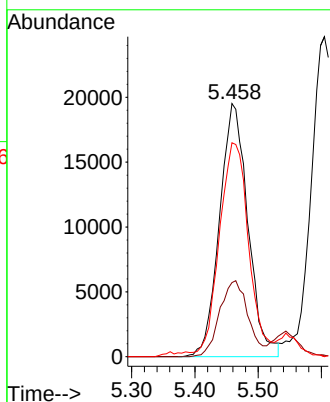
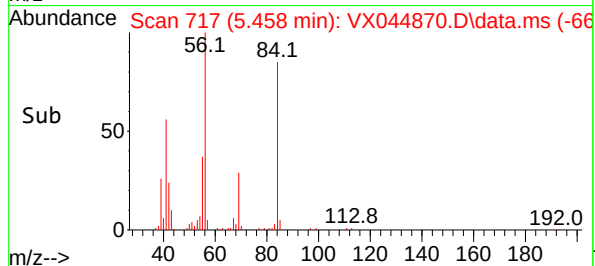
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 56 Resp: 60814
Ion Ratio Lower Upper
56 100
69 29.2 24.4 36.6
84 83.1 69.0 103.6

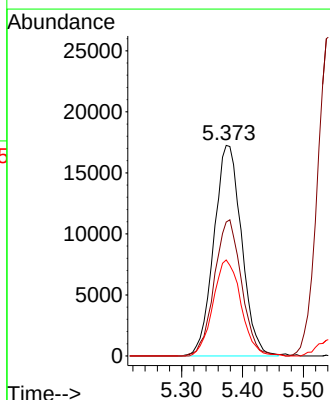
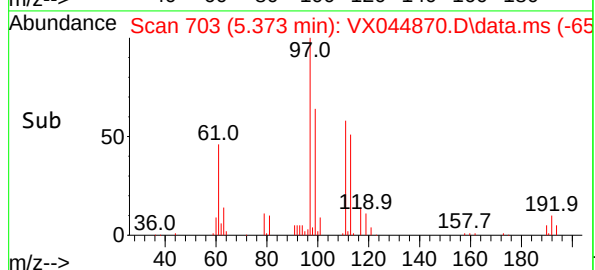
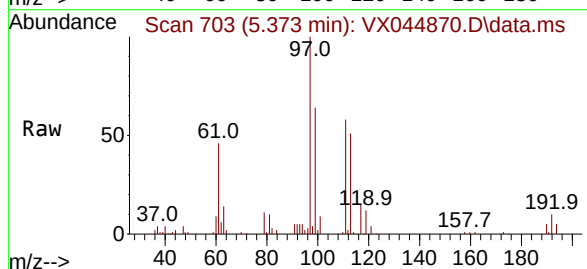
Manual Integrations
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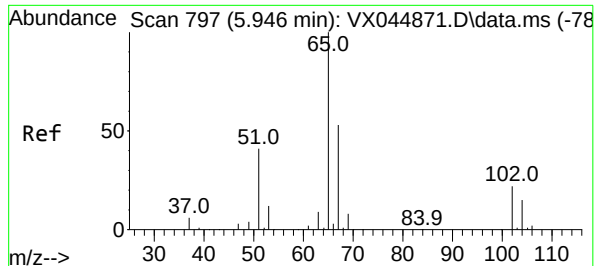
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#32
1,1,1-Trichloroethane
Concen: 20.724 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 97 Resp: 54450
Ion Ratio Lower Upper
97 100
99 63.4 51.0 76.6
61 45.9 36.6 55.0





#33

1,2-Dichloroethane-d4

Concen: 19.616 ug/l

RT: 5.952 min Scan# 797

Delta R.T. 0.007 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 65 Resp: 3719

Ion Ratio Lower Upper

65 100

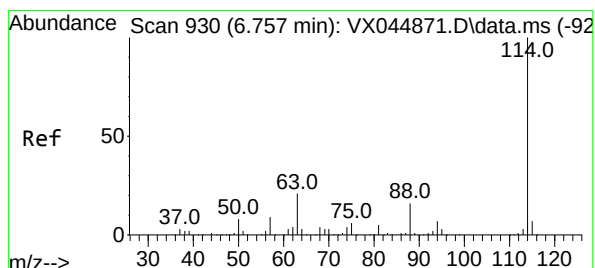
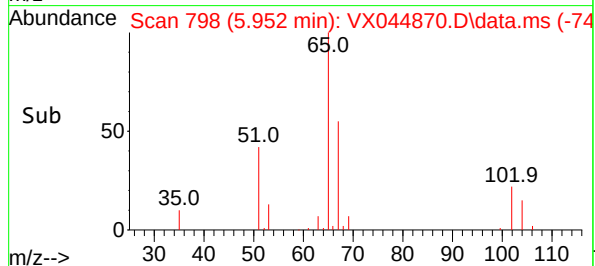
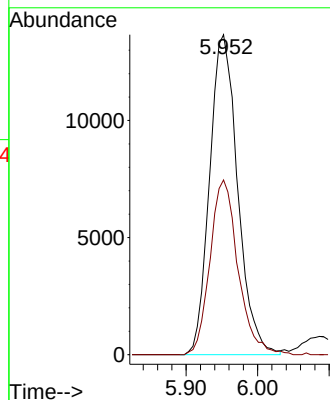
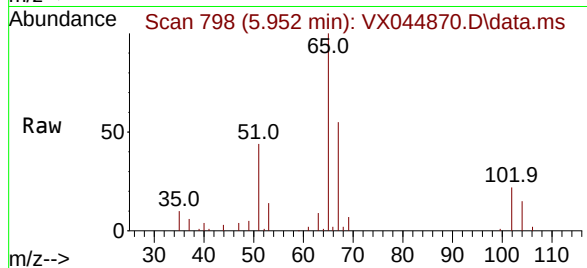
67 54.6 0.0 108.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

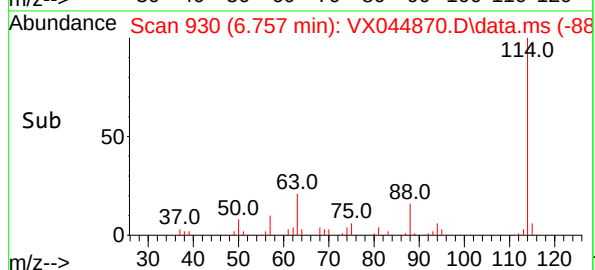
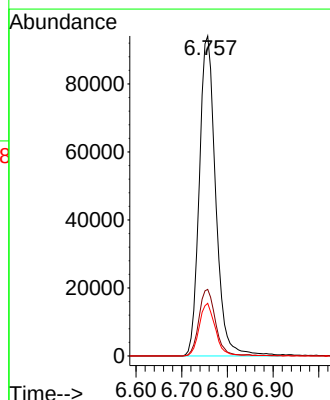
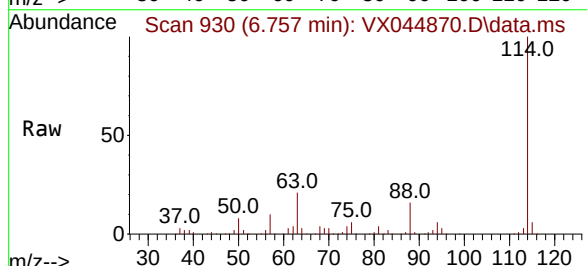
Tgt Ion:114 Resp: 234445

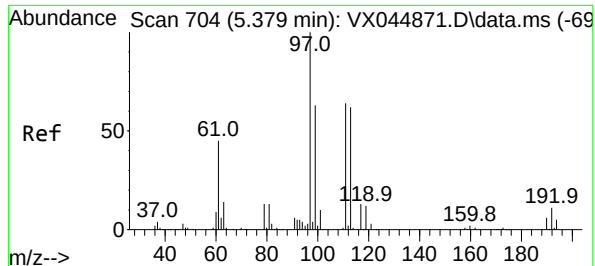
Ion Ratio Lower Upper

114 100

63 20.8 0.0 42.4

88 16.4 0.0 31.4





#35

Dibromofluoromethane

Concen: 19.793 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

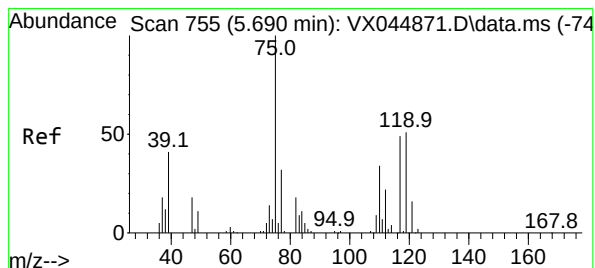
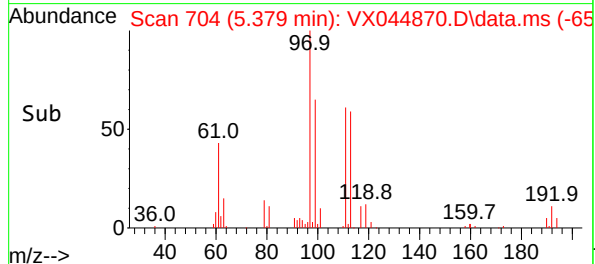
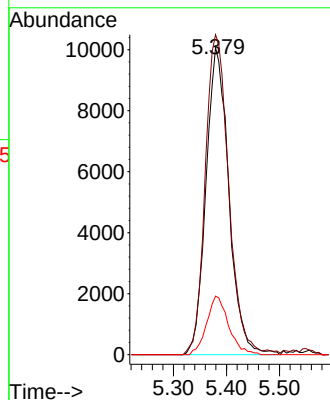
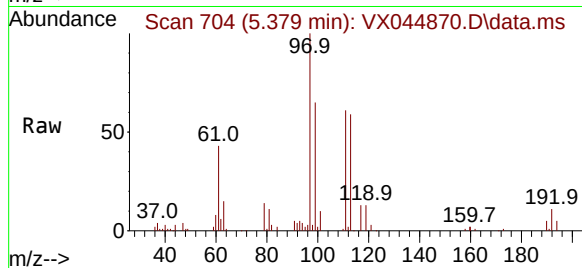
Tgt Ion:	113	Resp:	30170
Ion	Ratio	Lower	Upper
113	100		
111	106.3	83.5	125.3
192	18.3	14.4	21.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#36

1,1-Dichloropropene

Concen: 20.913 ug/l

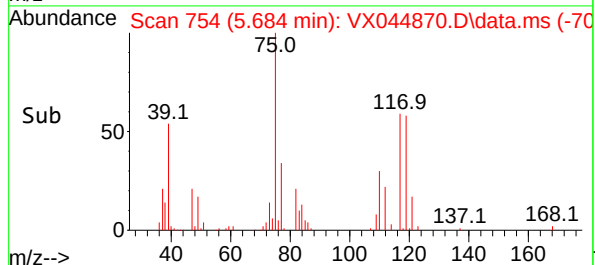
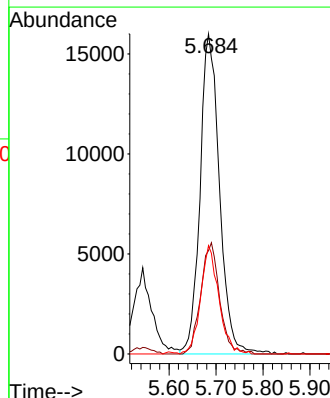
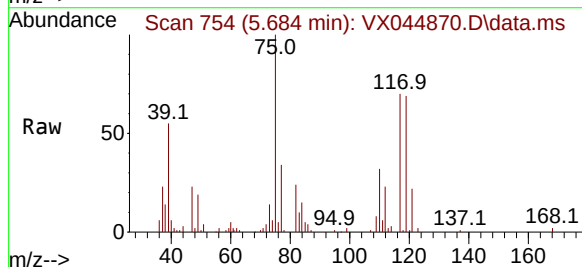
RT: 5.684 min Scan# 754

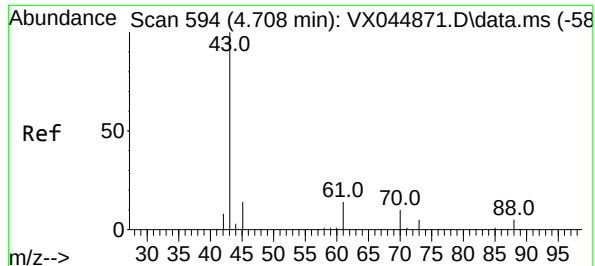
Delta R.T. -0.006 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Tgt Ion:	75	Resp:	45991
Ion	Ratio	Lower	Upper
75	100		
110	33.8	17.2	51.6
77	31.7	24.6	37.0





#37

Ethyl Acetate

Concen: 20.949 ug/l

RT: 4.715 min Scan# 5124

Delta R.T. 0.007 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

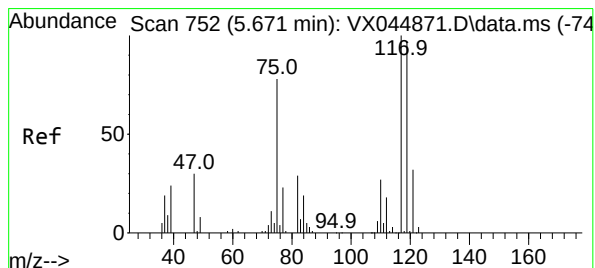
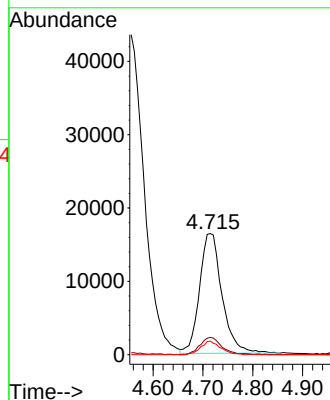
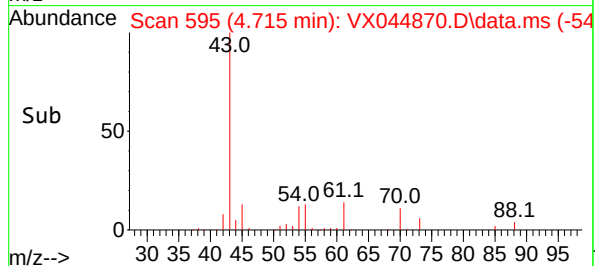
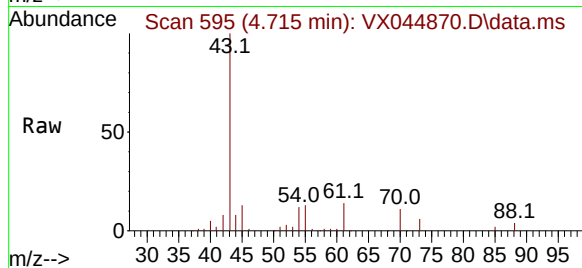
VSTDIC020

Tgt Ion:	43	Resp:	5124
Ion	Ratio	Lower	Upper
43	100		
61	13.9	11.0	16.4
70	9.9	8.2	12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#38

Carbon Tetrachloride

Concen: 20.790 ug/l

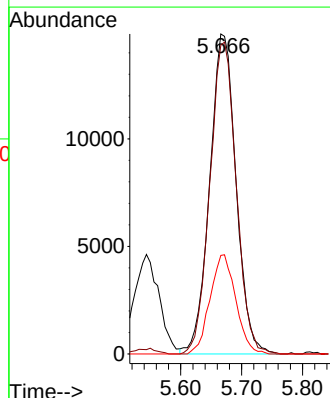
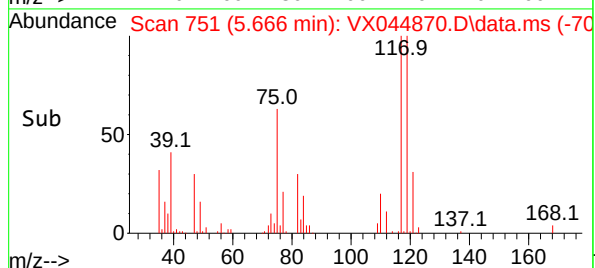
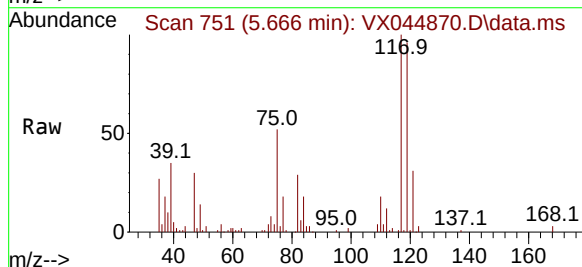
RT: 5.666 min Scan# 751

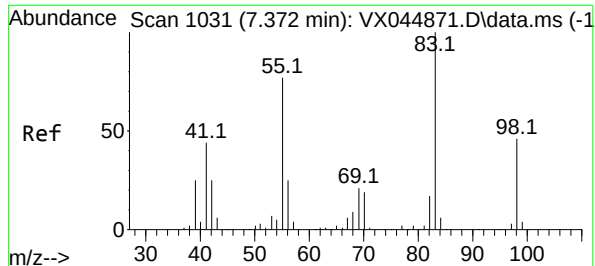
Delta R.T. -0.006 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Tgt Ion:	117	Resp:	44802
Ion	Ratio	Lower	Upper
117	100		
119	96.5	77.5	116.3
121	30.8	25.6	38.4





#39

Methylcyclohexane

Concen: 21.985 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 83 Resp: 6250

Ion Ratio Lower Upper

83 100

55 74.3 61.3 91.9

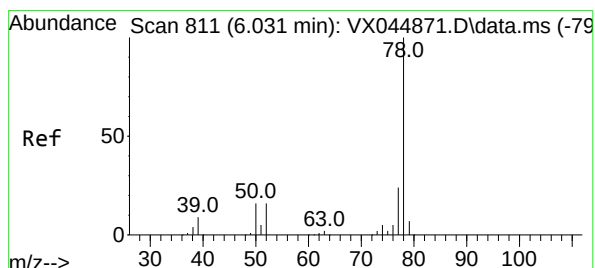
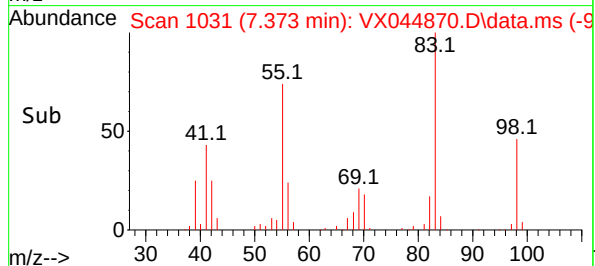
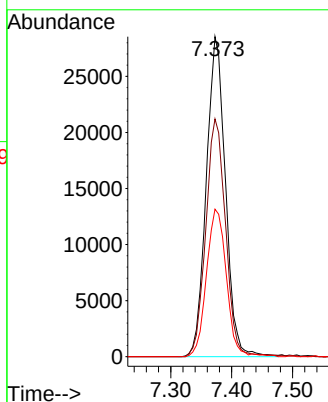
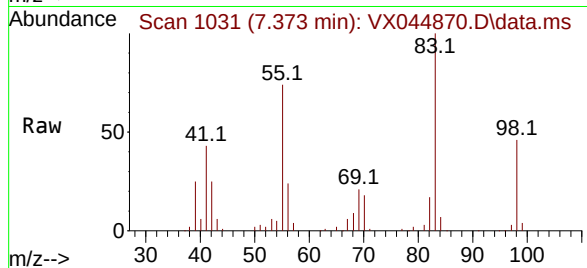
98 46.1 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#40

Benzene

Concen: 21.540 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX044870.D

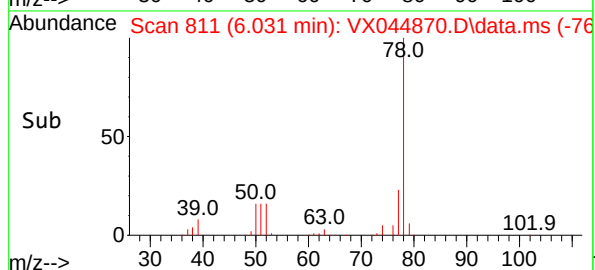
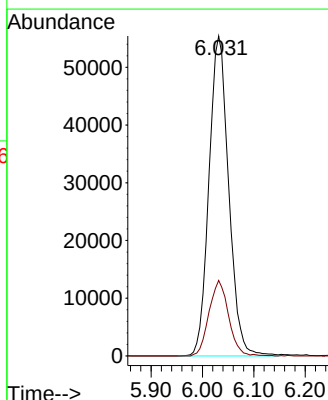
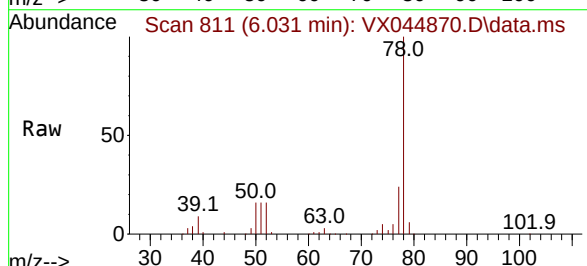
Acq: 10 Feb 2025 11:11

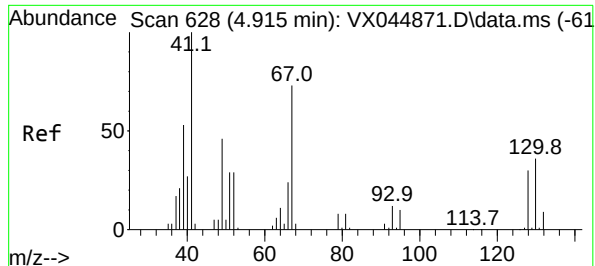
Tgt Ion: 78 Resp: 147912

Ion Ratio Lower Upper

78 100

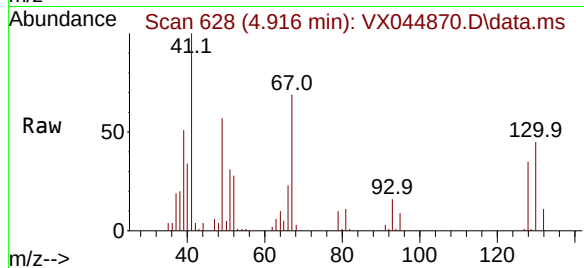
77 23.6 19.0 28.6





#41
Methacrylonitrile
Concen: 20.887 ug/l
RT: 4.916 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

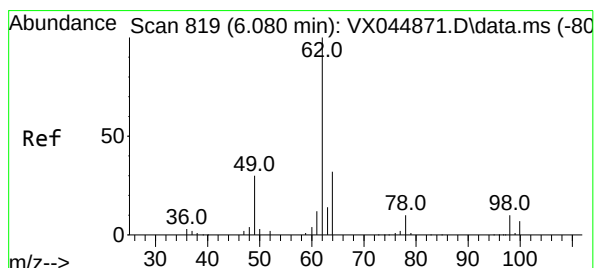
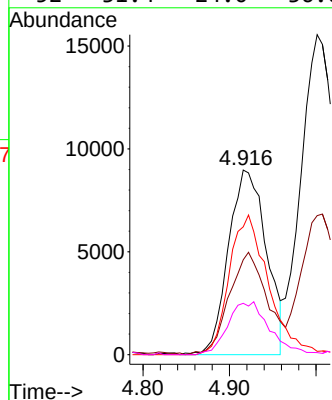
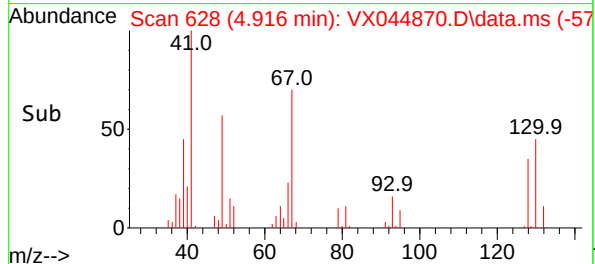
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 41 Resp: 2734
Ion Ratio Lower Upper
41 100
39 55.9 43.1 64.7
67 78.6 57.0 85.6
52 31.4 24.0 36.0

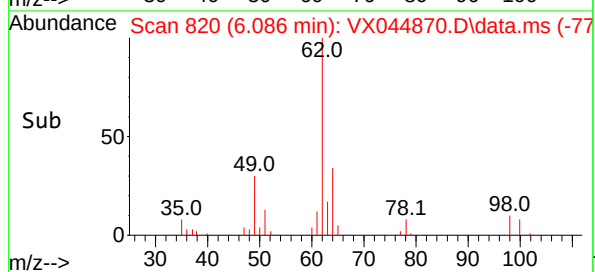
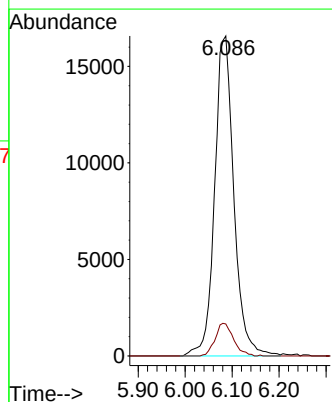
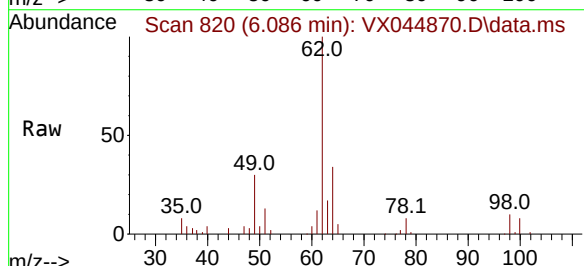
Manual Integrations
APPROVED

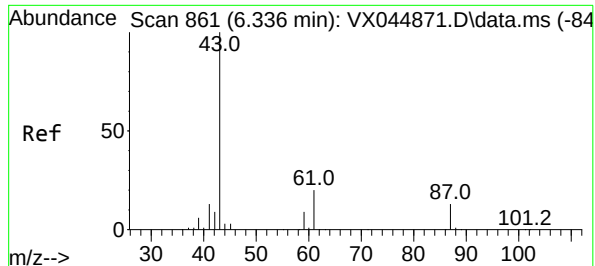
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#42
1,2-Dichloroethane
Concen: 21.519 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 62 Resp: 47095
Ion Ratio Lower Upper
62 100
98 9.7 0.0 19.4





#43

Isopropyl Acetate

Concen: 21.343 ug/l

RT: 6.336 min Scan# 80

Delta R.T. 0.000 min

Lab File: VX044870.D

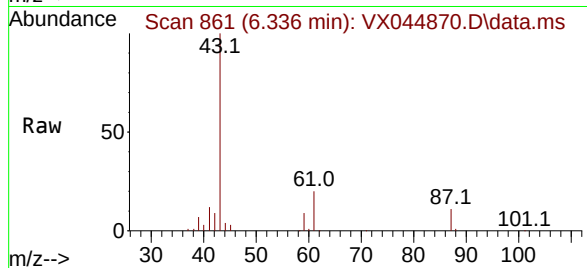
Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020



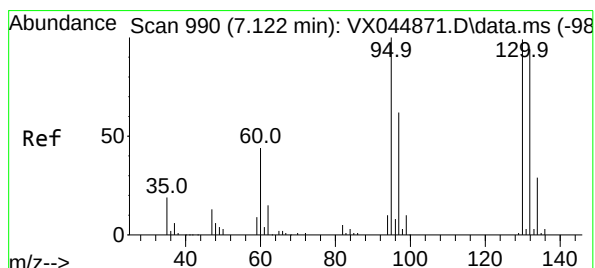
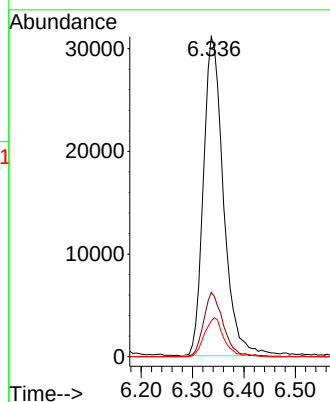
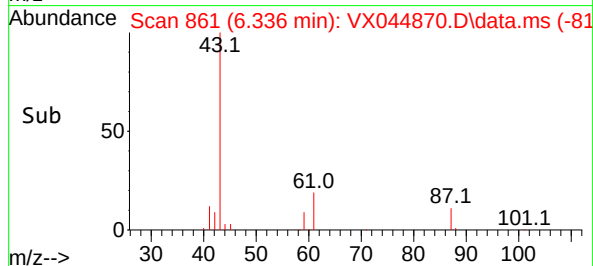
Tgt Ion:	43	Resp:	84300
Ion	Ratio	Lower	Upper
43	100		
61	19.5	15.8	23.8
87	11.6	10.0	15.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#44

Trichloroethene

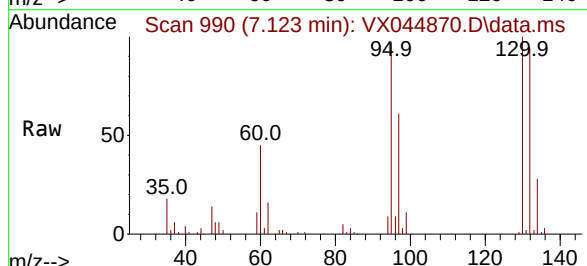
Concen: 21.910 ug/l

RT: 7.123 min Scan# 990

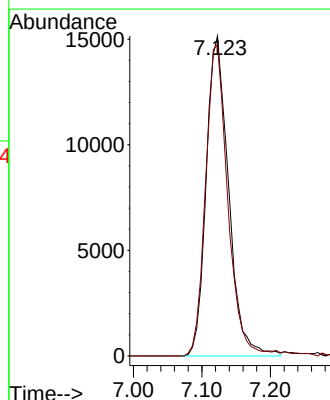
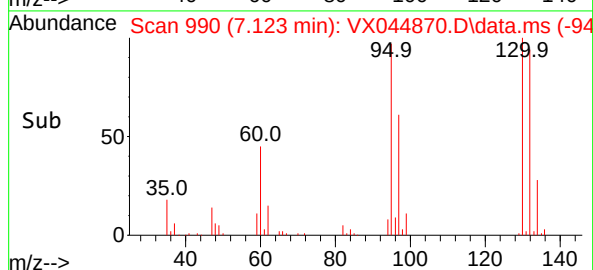
Delta R.T. 0.000 min

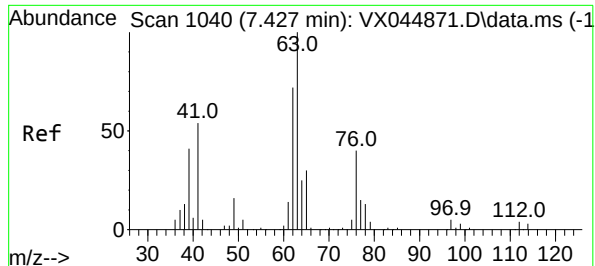
Lab File: VX044870.D

Acq: 10 Feb 2025 11:11



Tgt Ion:	130	Resp:	34390
Ion	Ratio	Lower	Upper
130	100		
95	97.2	0.0	202.4





#45

1,2-Dichloropropane

Concen: 21.371 ug/l

RT: 7.428 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 36510

Ion Ratio Lower Upper

63 100

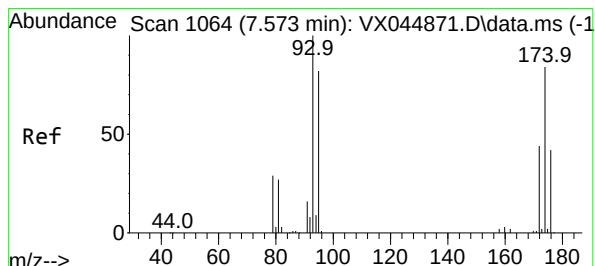
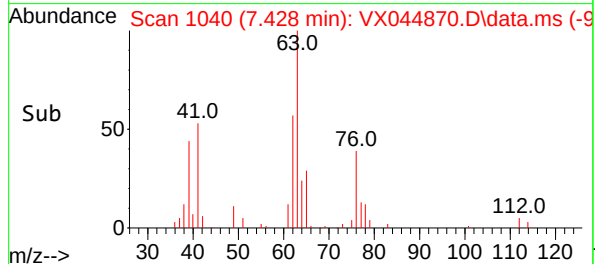
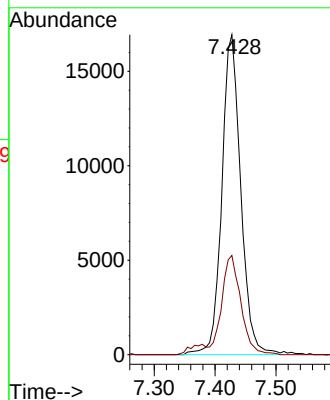
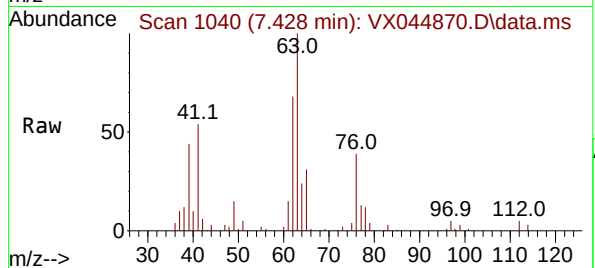
65 31.0 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#46

Dibromomethane

Concen: 21.354 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

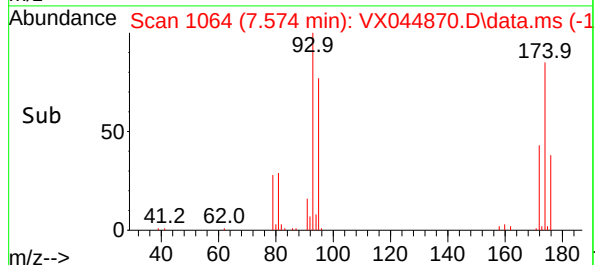
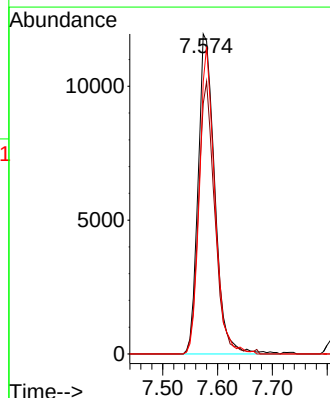
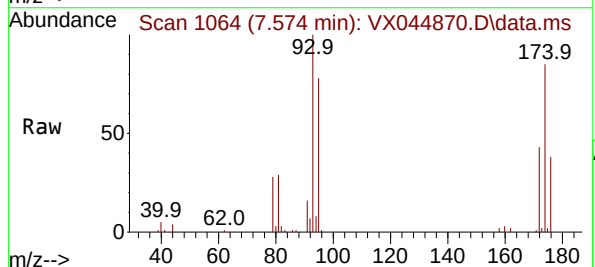
Tgt Ion: 93 Resp: 25300

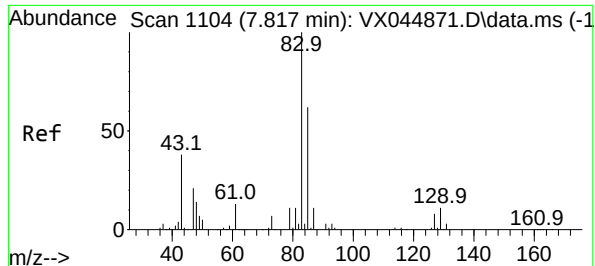
Ion Ratio Lower Upper

93 100

95 82.5 66.2 99.4

174 88.6 69.9 104.9





#47

Bromodichloromethane

Concen: 21.012 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 83 Resp: 4820

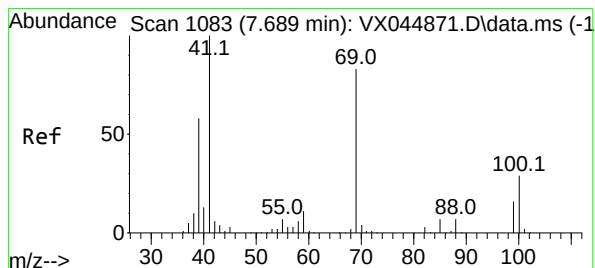
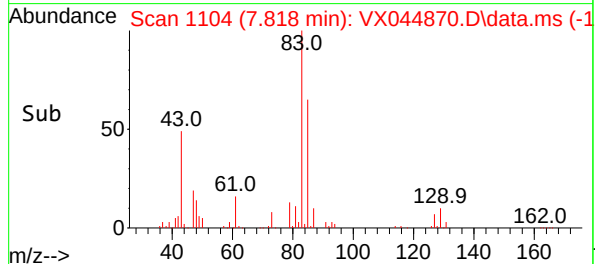
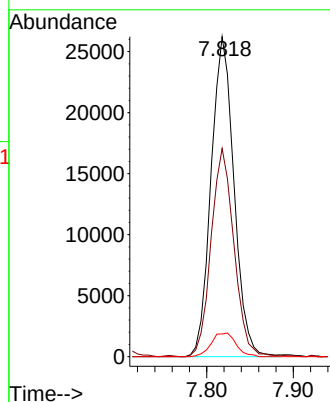
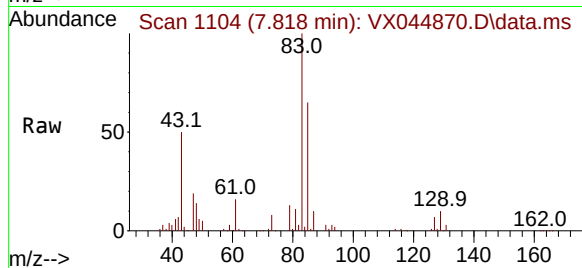
Ion	Ratio	Lower	Upper
83	100		
85	65.1	50.0	75.0
127	7.1	6.4	9.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#48

Methyl methacrylate

Concen: 21.341 ug/l

RT: 7.690 min Scan# 1083

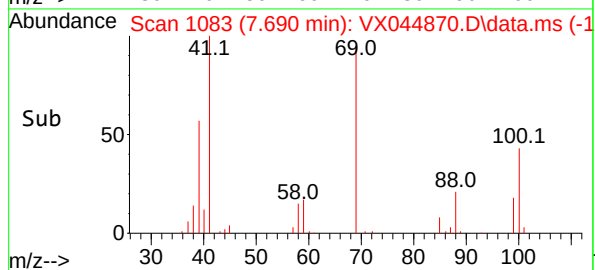
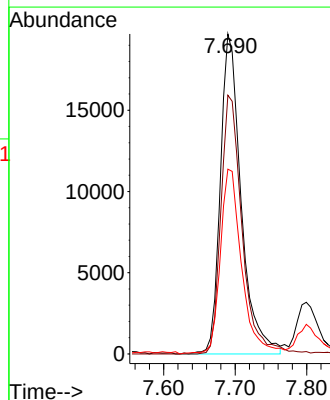
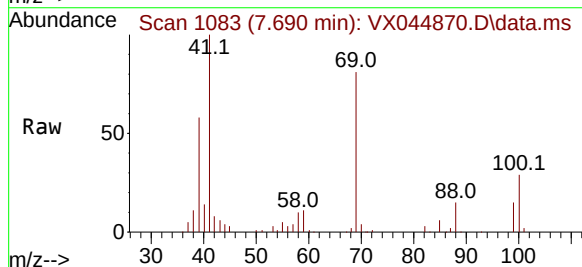
Delta R.T. 0.000 min

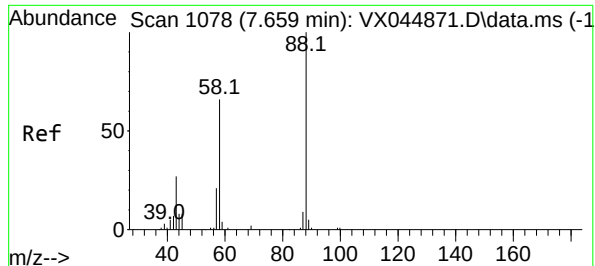
Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Tgt Ion: 41 Resp: 39747

Ion	Ratio	Lower	Upper
41	100		
69	82.5	65.8	98.8
39	58.2	46.4	69.6





#49

1,4-Dioxane

Concen: 429.262 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. 0.007 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

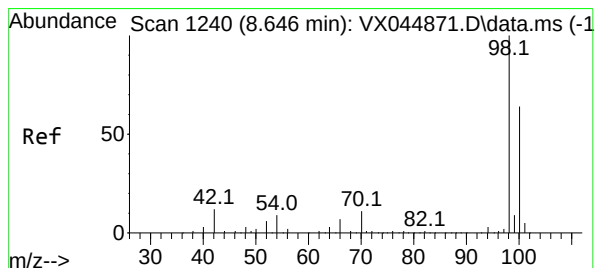
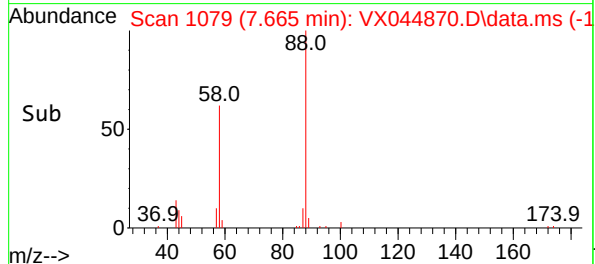
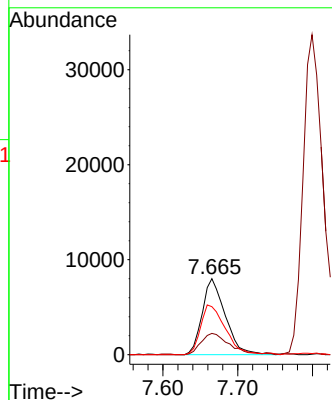
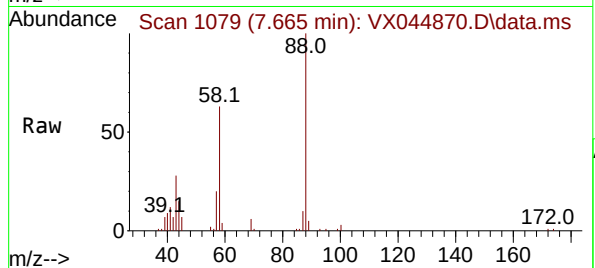
Tgt Ion:	88	Resp:	1715
Ion	Ratio	Lower	Upper
88	100		
43	34.3	26.6	39.8
58	69.3	55.9	83.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#50

Toluene-d8

Concen: 20.321 ug/l

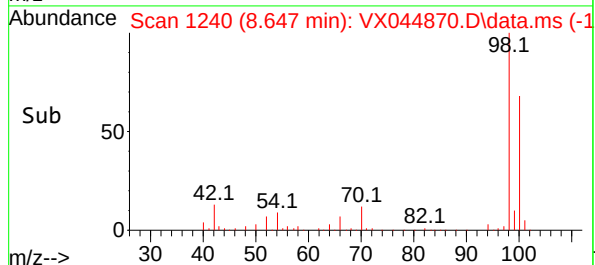
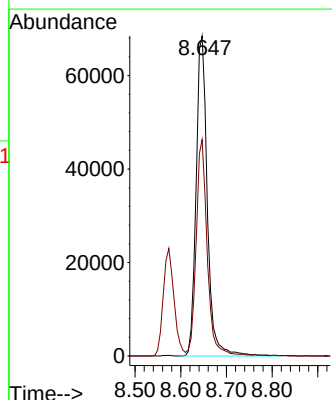
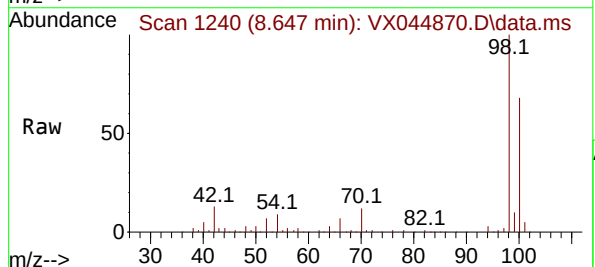
RT: 8.647 min Scan# 1240

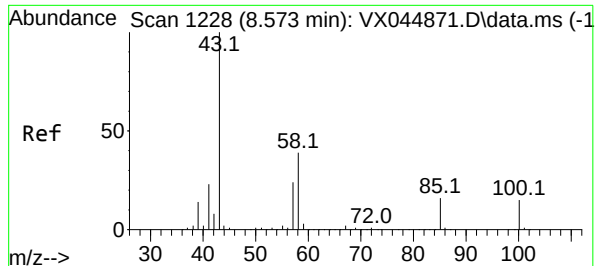
Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Tgt Ion:	98	Resp:	117127
Ion	Ratio	Lower	Upper
98	100		
100	66.4	52.7	79.1





#51

4-Methyl-2-Pentanone

Concen: 109.684 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 263394

Ion Ratio Lower Upper

43 100

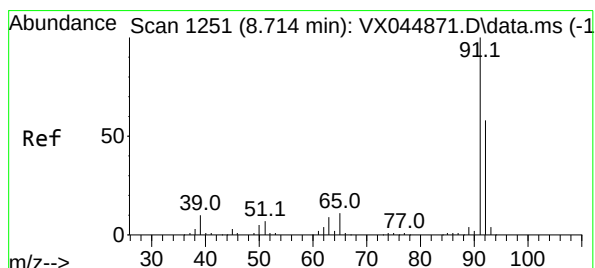
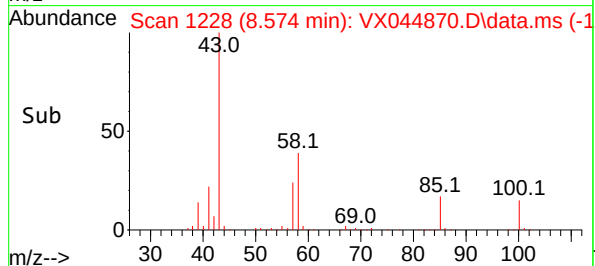
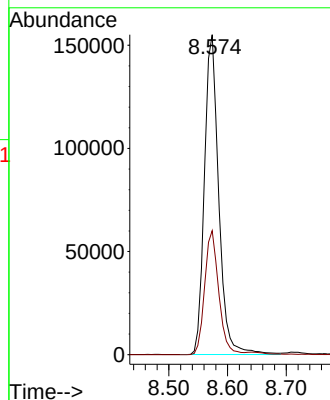
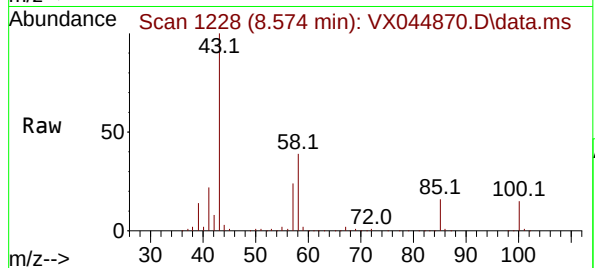
58 38.1 30.8 46.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#52

Toluene

Concen: 21.940 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. 0.000 min

Lab File: VX044870.D

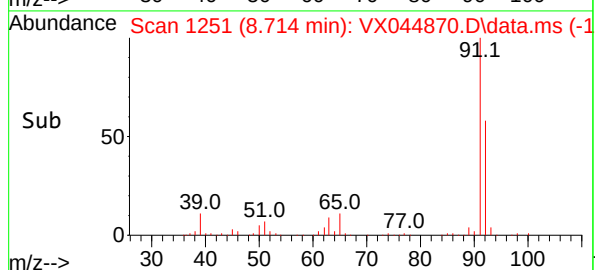
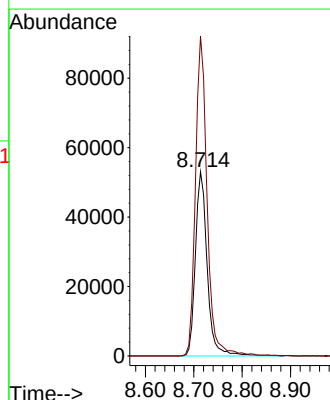
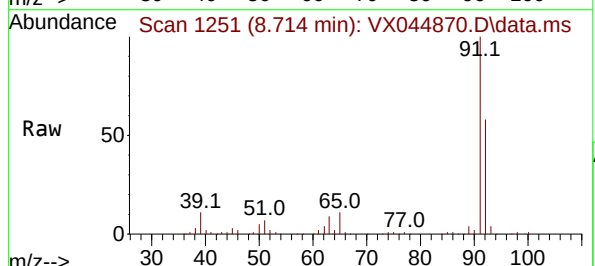
Acq: 10 Feb 2025 11:11

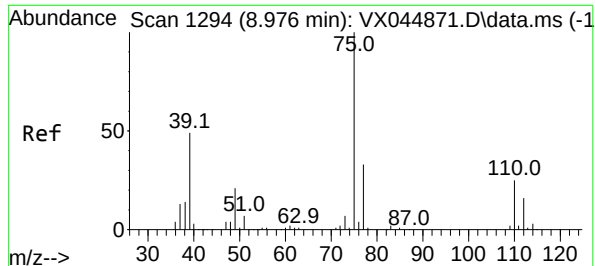
Tgt Ion: 92 Resp: 89726

Ion Ratio Lower Upper

92 100

91 171.0 137.4 206.2





#53

t-1,3-Dichloropropene

Concen: 20.940 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 75 Resp: 4861

Ion Ratio Lower Upper

75 100

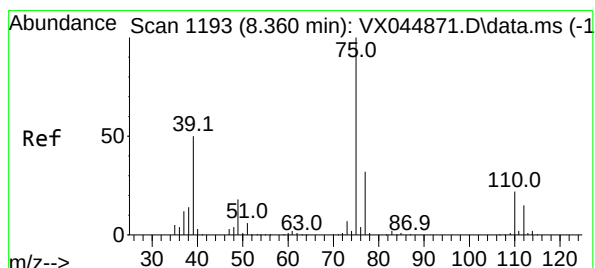
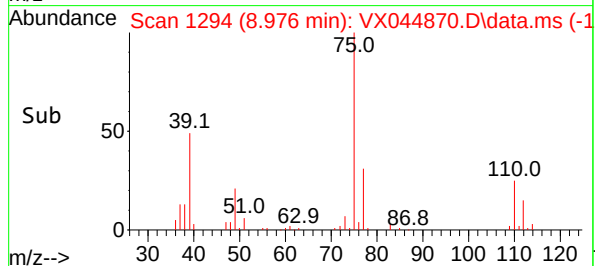
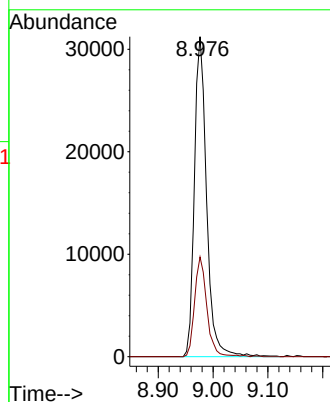
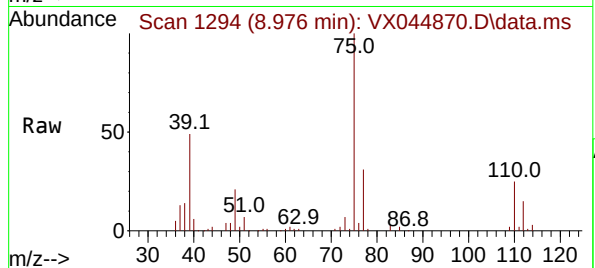
77 31.2 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#54

cis-1,3-Dichloropropene

Concen: 21.259 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.007 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

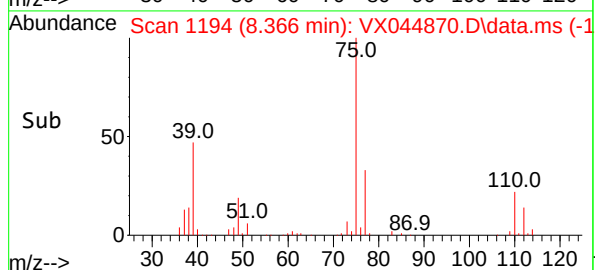
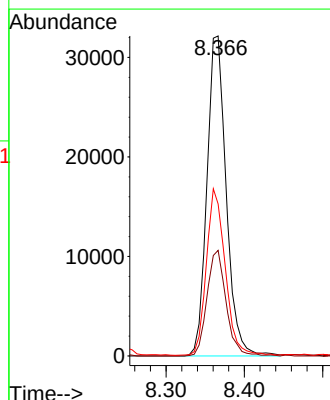
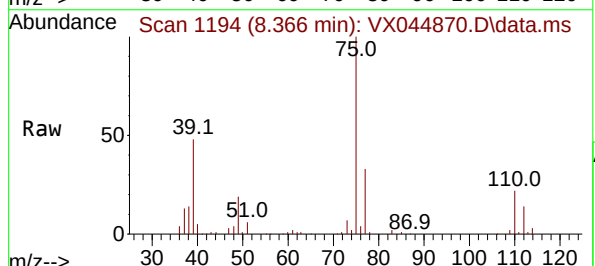
Tgt Ion: 75 Resp: 55026

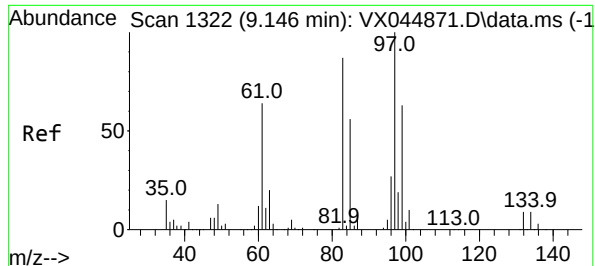
Ion Ratio Lower Upper

75 100

77 33.0 25.3 37.9

39 47.3 40.0 60.0





#55

1,1,2-Trichloroethane

Concen: 21.582 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 97 Resp: 33930

Ion Ratio Lower Upper

97 100

83 89.3 69.8 104.6

85 58.3 44.8 67.2

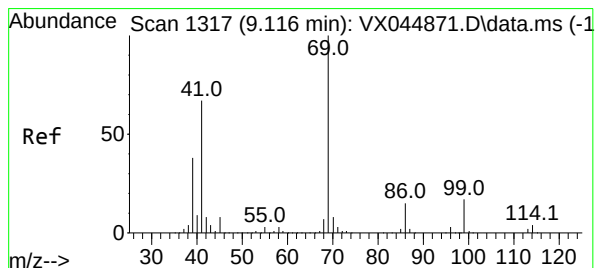
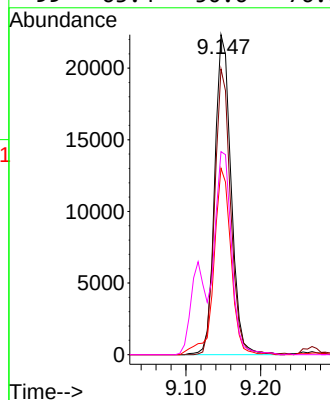
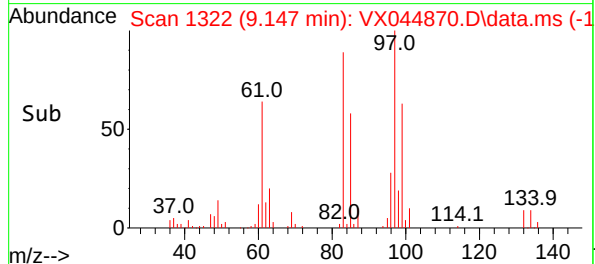
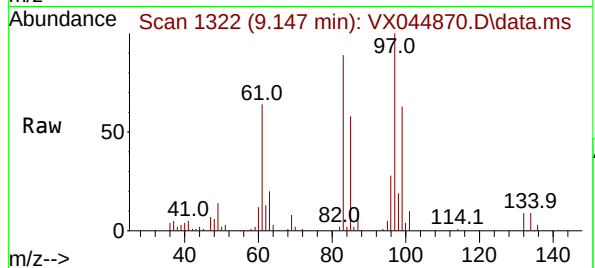
99 63.4 50.6 76.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#56

Ethyl methacrylate

Concen: 21.533 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

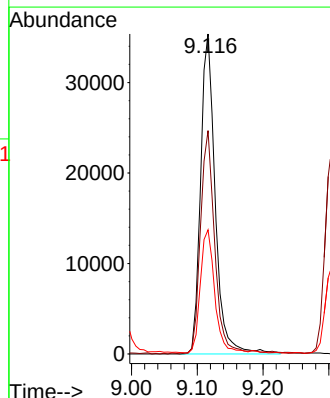
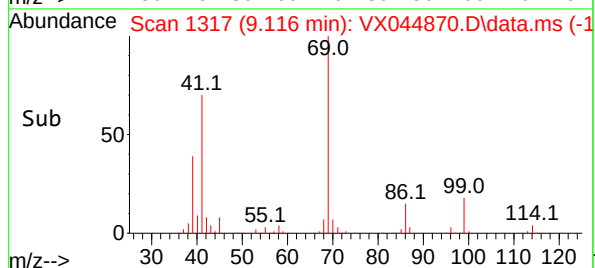
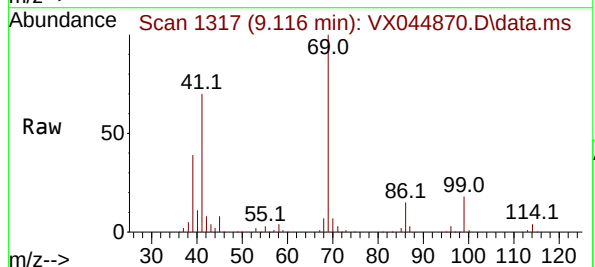
Tgt Ion: 69 Resp: 54674

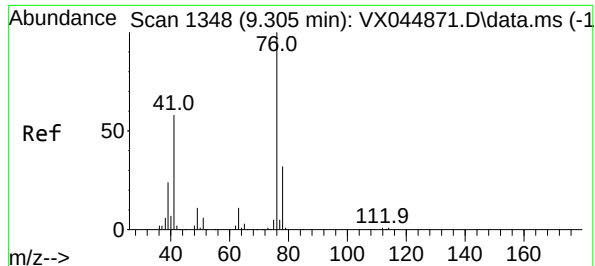
Ion Ratio Lower Upper

69 100

41 68.4 55.2 82.8

39 37.4 30.8 46.2





#57

1,3-Dichloropropane

Concen: 21.841 ug/l

RT: 9.305 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 60079

Ion Ratio Lower Upper

76 100

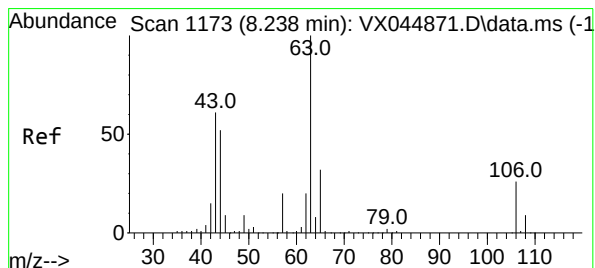
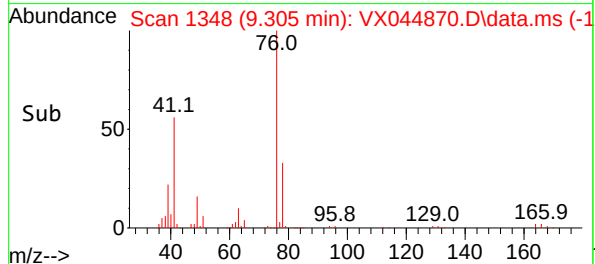
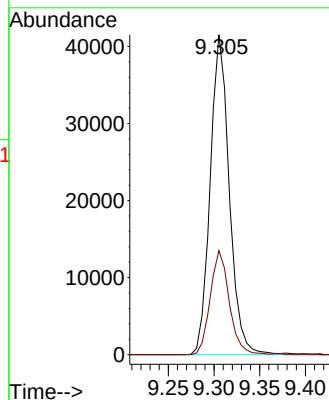
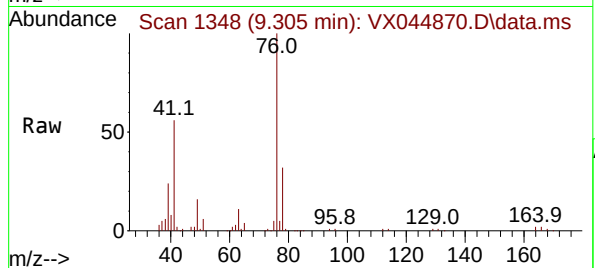
78 32.6 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#58

2-Chloroethyl Vinyl ether

Concen: 106.736 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX044870.D

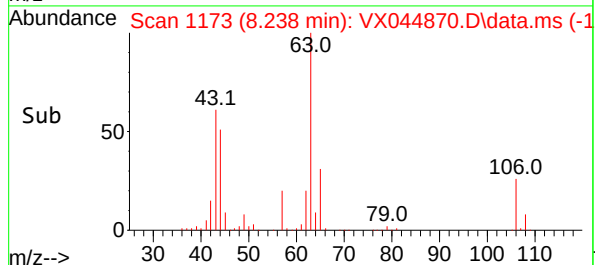
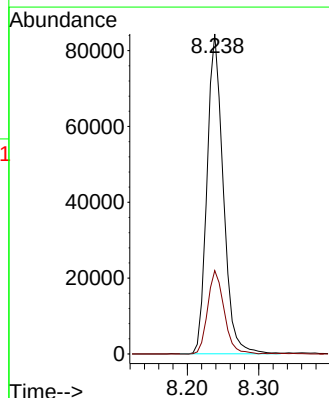
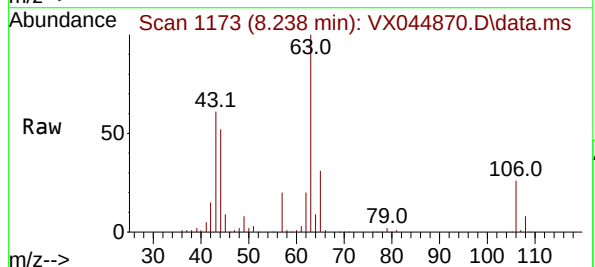
Acq: 10 Feb 2025 11:11

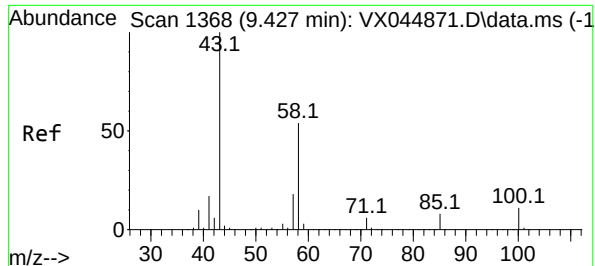
Tgt Ion: 63 Resp: 133072

Ion Ratio Lower Upper

63 100

106 26.6 21.3 31.9





#59

2-Hexanone

Concen: 110.072 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 190449

Ion Ratio Lower Upper

43 100

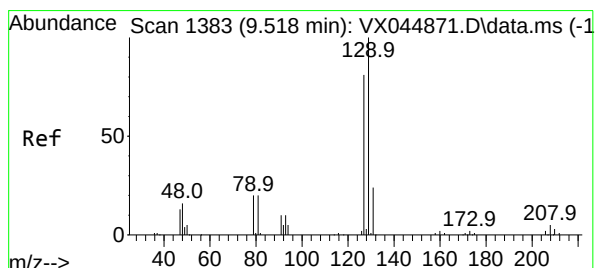
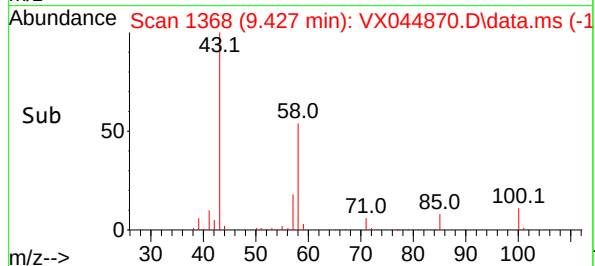
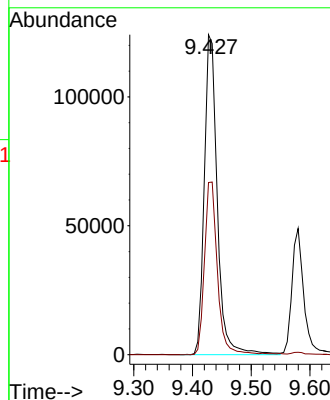
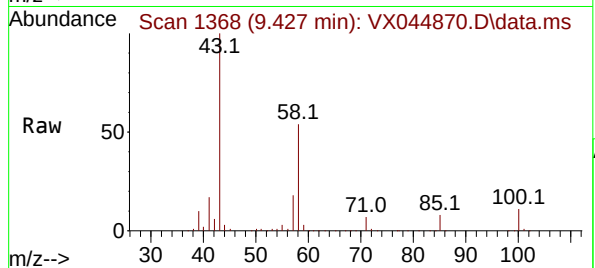
58 53.5 27.5 82.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#60

Dibromochloromethane

Concen: 21.237 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX044870.D

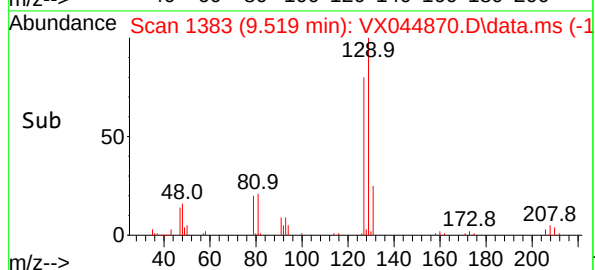
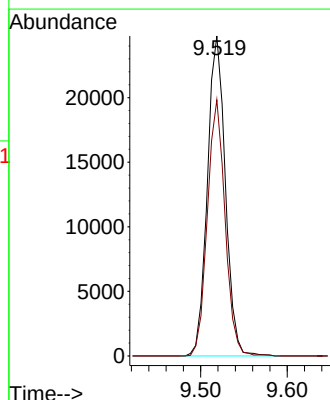
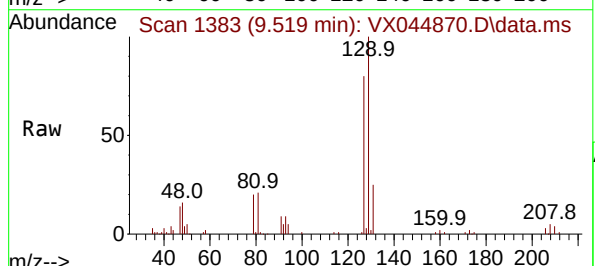
Acq: 10 Feb 2025 11:11

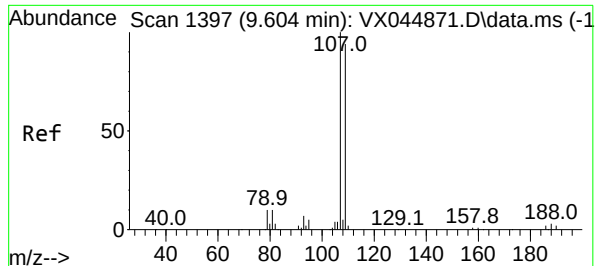
Tgt Ion:129 Resp: 35706

Ion Ratio Lower Upper

129 100

127 79.0 39.1 117.3





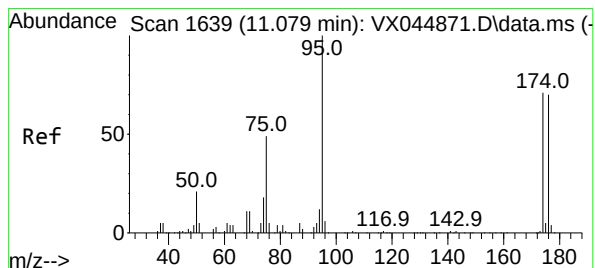
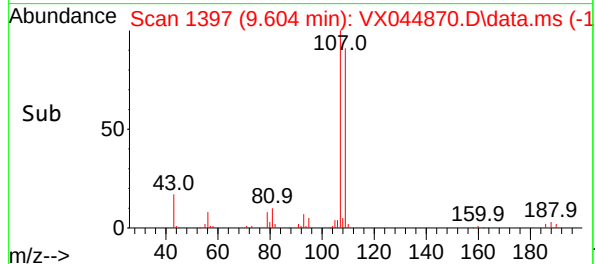
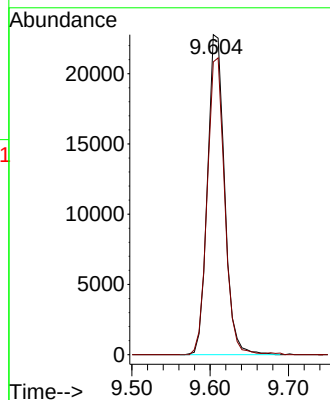
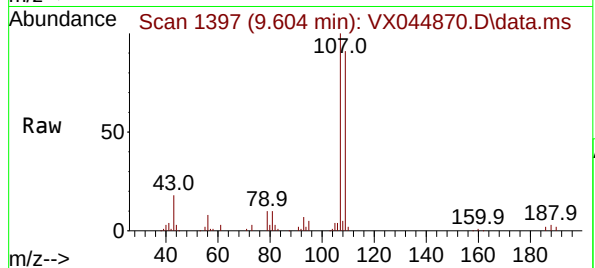
#61
1,2-Dibromoethane
Concen: 21.628 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 3446
Ion Ratio Lower Upper
107 100
109 94.5 75.9 113.9

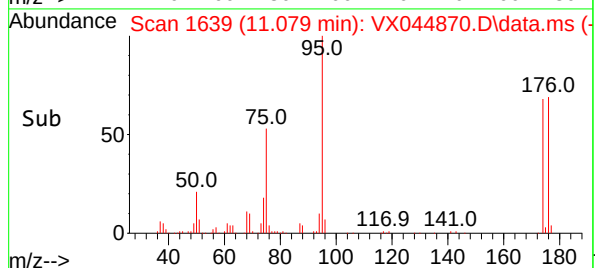
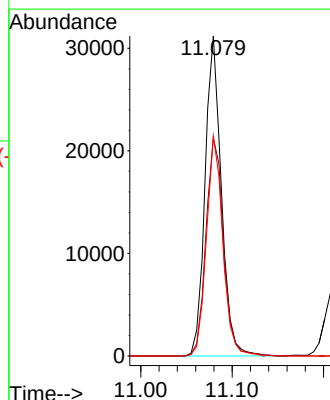
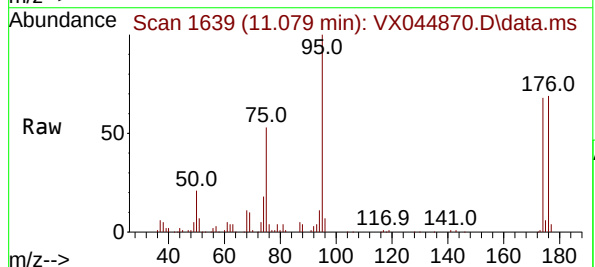
Manual Integrations
APPROVED

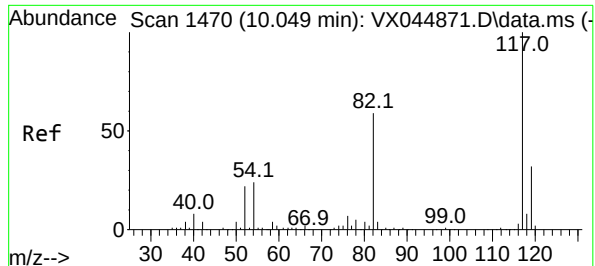
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#62
4-Bromofluorobenzene
Concen: 19.800 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

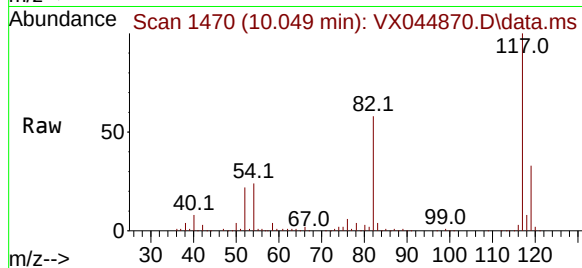
Tgt Ion: 95 Resp: 38475
Ion Ratio Lower Upper
95 100
174 73.5 0.0 142.6
176 69.0 0.0 141.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

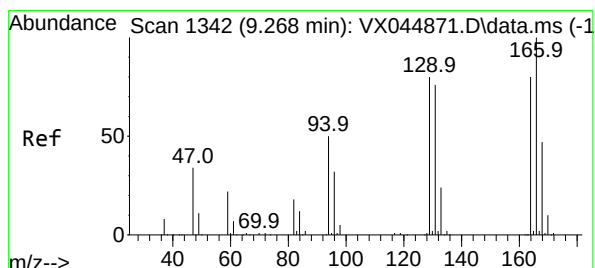
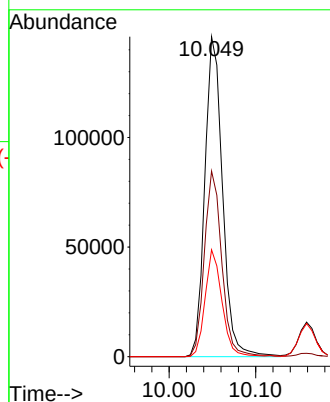
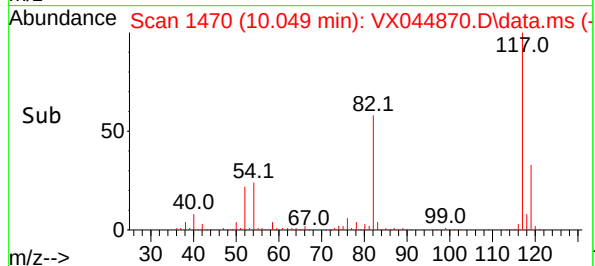
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:117 Resp: 20766
Ion Ratio Lower Upper
117 100
82 58.0 47.5 71.3
119 33.4 25.4 38.0

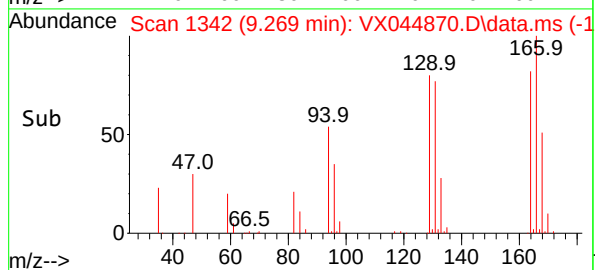
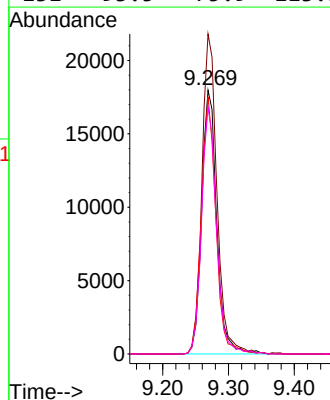
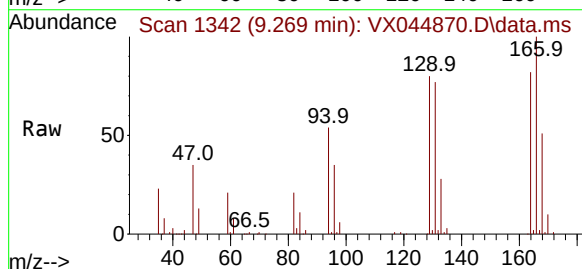
Manual Integrations
APPROVED

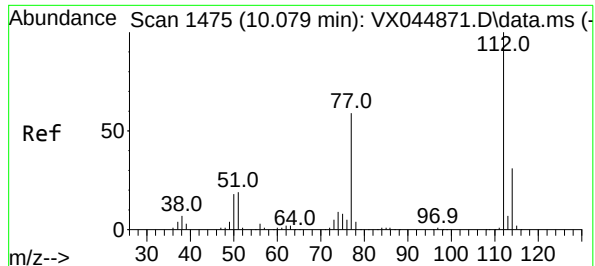
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#64
Tetrachloroethene
Concen: 21.776 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:164 Resp: 28519
Ion Ratio Lower Upper
164 100
166 121.4 100.4 150.6
129 97.6 79.9 119.9
131 93.5 75.9 113.9





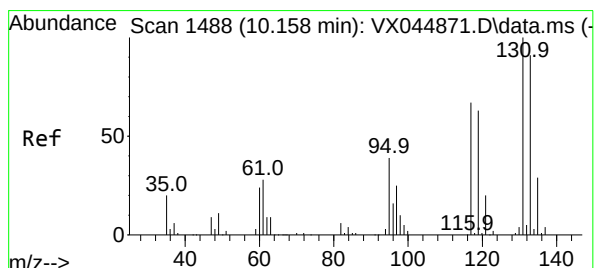
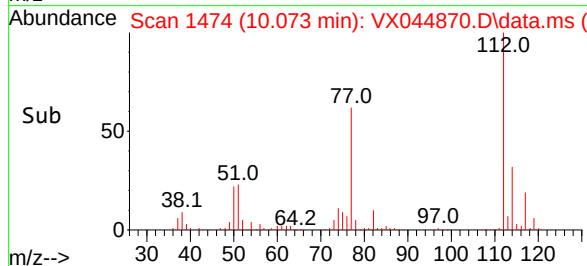
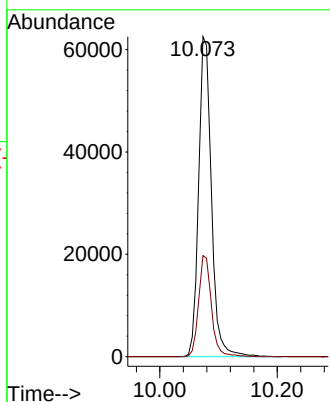
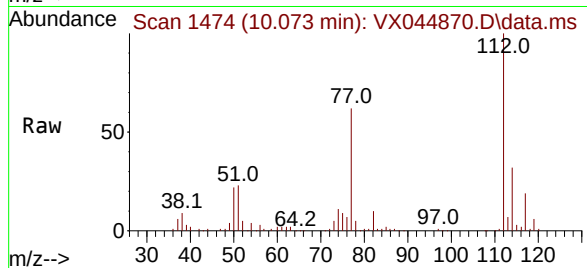
#65
Chlorobenzene
Concen: 21.230 ug/l
RT: 10.073 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tgt Ion:112 Resp: 9469
Ion Ratio Lower Upper
112 100
114 31.6 25.0 37.6

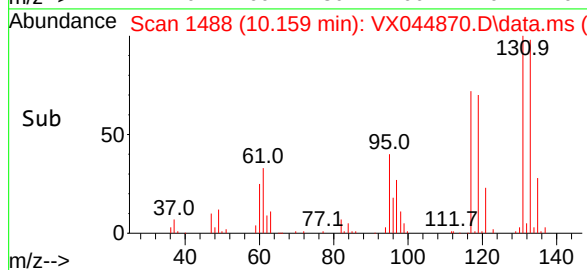
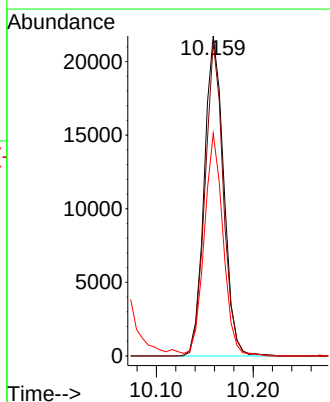
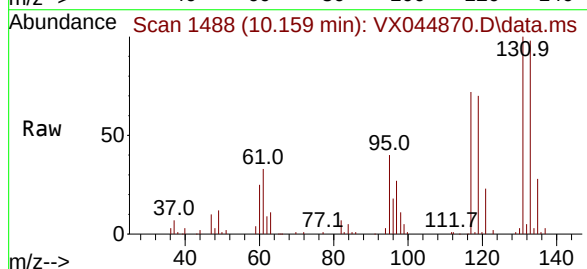
Manual Integrations
APPROVED

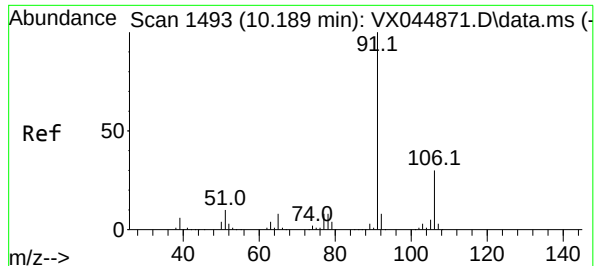
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 21.136 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

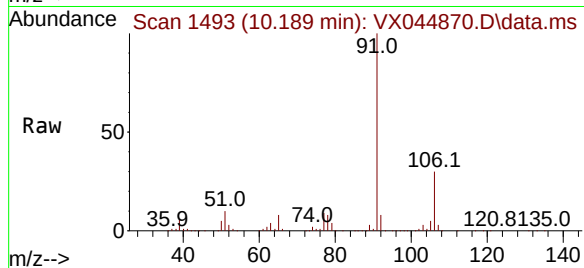
Tgt Ion:131 Resp: 30344
Ion Ratio Lower Upper
131 100
133 92.9 47.1 141.3
119 67.4 33.6 100.6





#67
Ethyl Benzene
Concen: 21.327 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

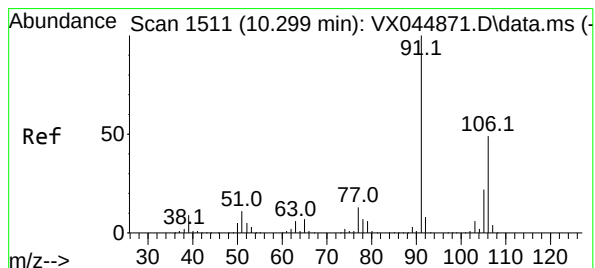
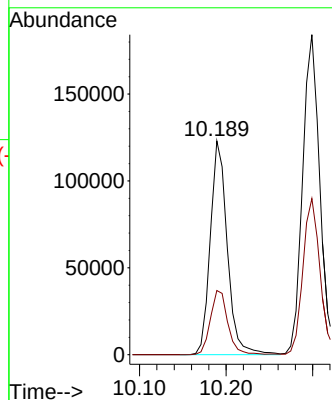
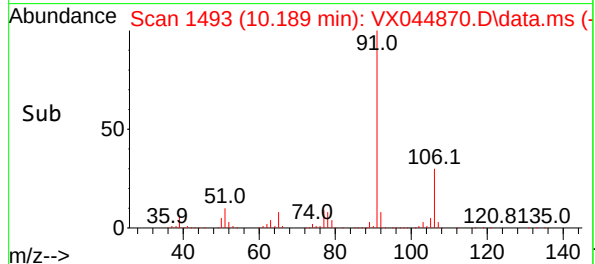
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 91 Resp: 16786
Ion Ratio Lower Upper
91 100
106 30.0 23.9 35.9

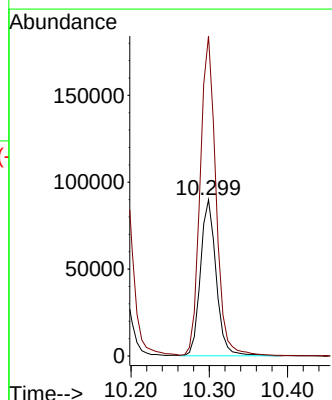
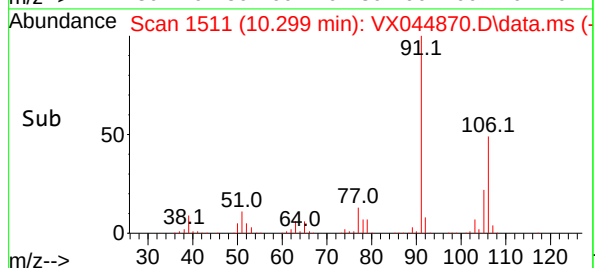
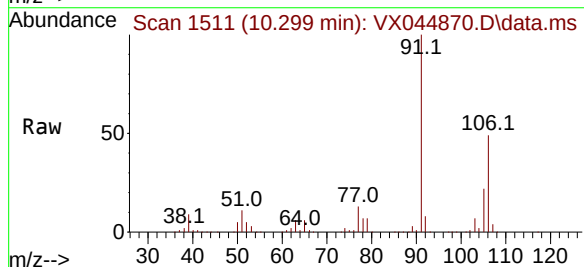
Manual Integrations
APPROVED

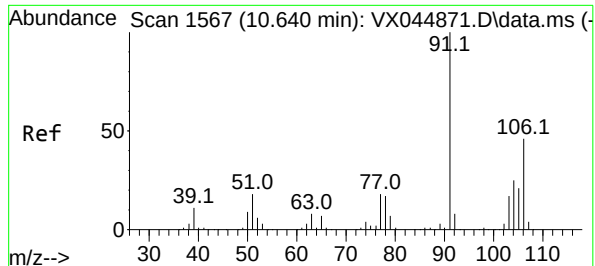
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#68
m/p-Xylenes
Concen: 43.144 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:106 Resp: 125271
Ion Ratio Lower Upper
106 100
91 206.3 164.3 246.5





#69

o-Xylene

Concen: 21.310 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:106 Resp: 6208

Ion Ratio Lower Upper

106 100

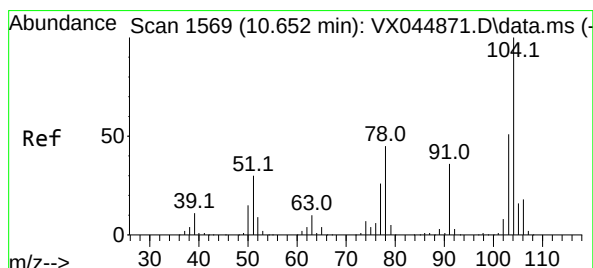
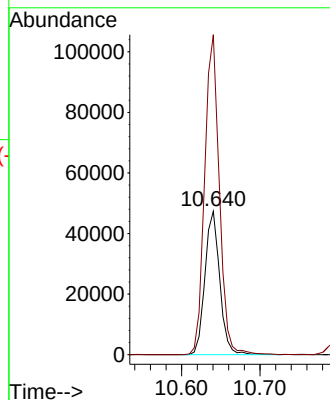
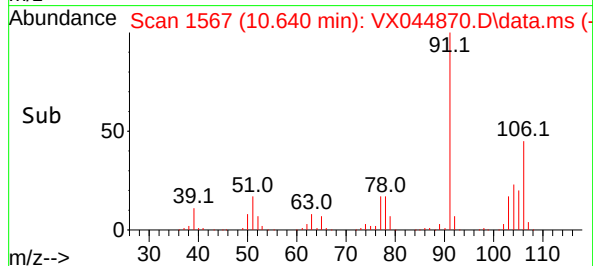
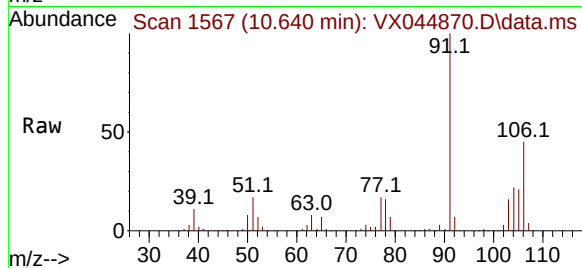
91 221.5 108.5 325.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#70

Styrene

Concen: 22.101 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

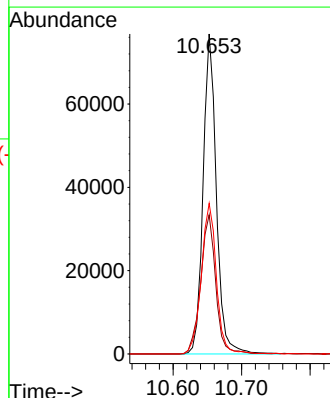
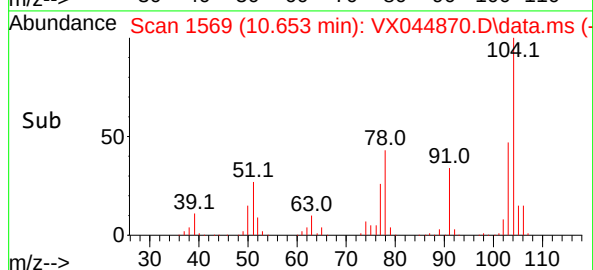
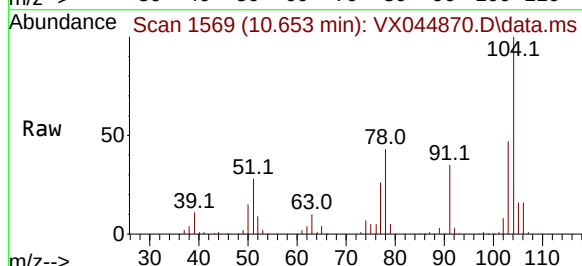
Tgt Ion:104 Resp: 103740

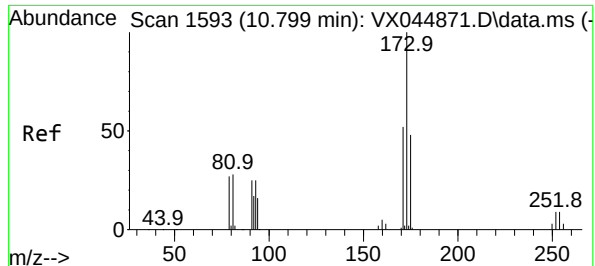
Ion Ratio Lower Upper

104 100

78 49.2 40.5 60.7

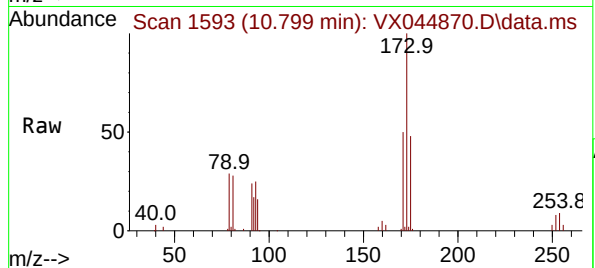
103 53.5 43.6 65.4





#71
Bromoform
Concen: 21.086 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

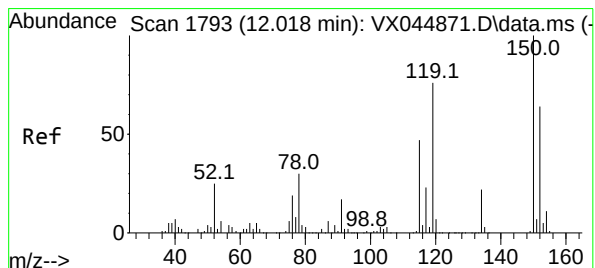
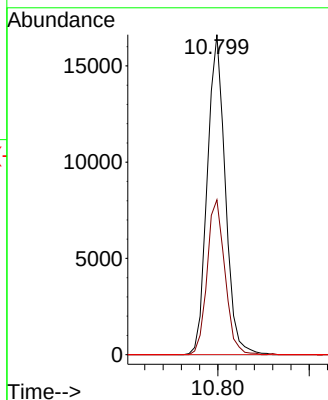
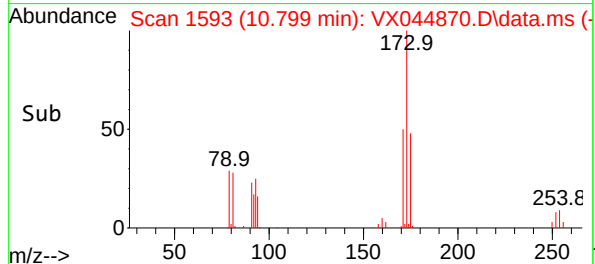
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:173 Resp: 22592
Ion Ratio Lower Upper
173 100
175 48.0 24.3 72.8
254 0.0 0.0 0.0

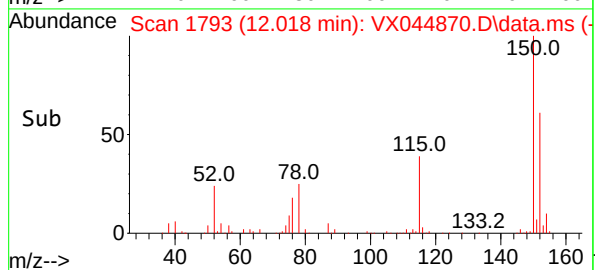
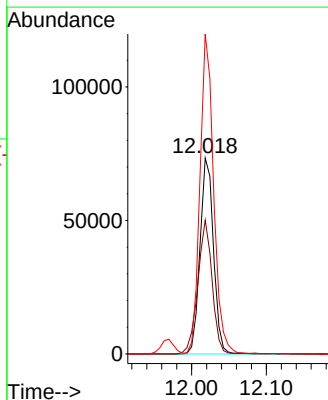
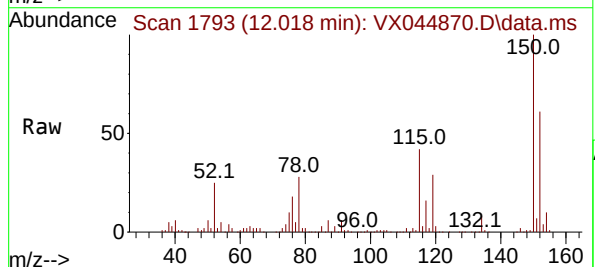
Manual Integrations
APPROVED

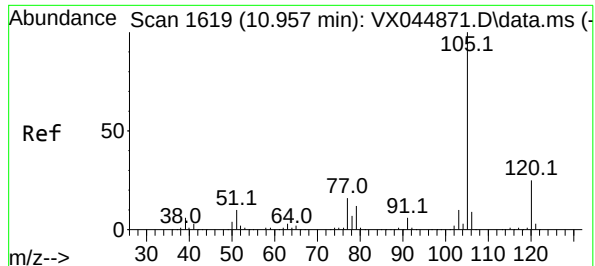
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:152 Resp: 92093
Ion Ratio Lower Upper
152 100
115 72.4 43.4 130.1
150 164.8 0.0 350.4





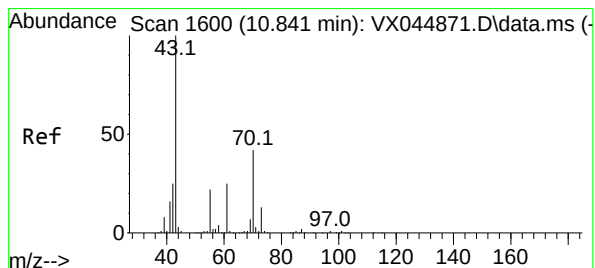
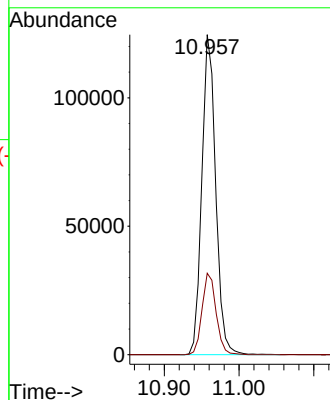
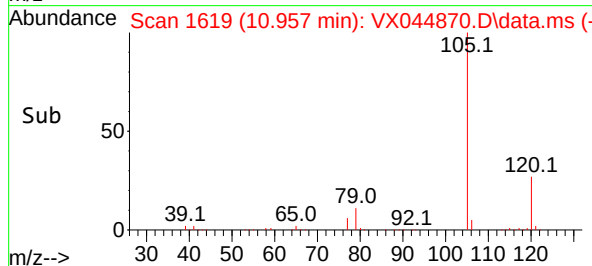
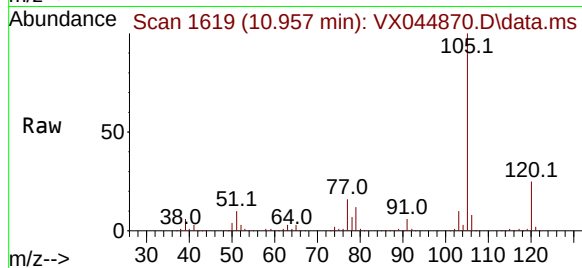
#73
Isopropylbenzene
Concen: 21.597 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 16014
Ion Ratio Lower Upper
105 100
120 25.7 13.2 39.5

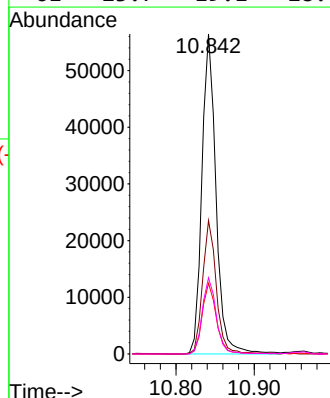
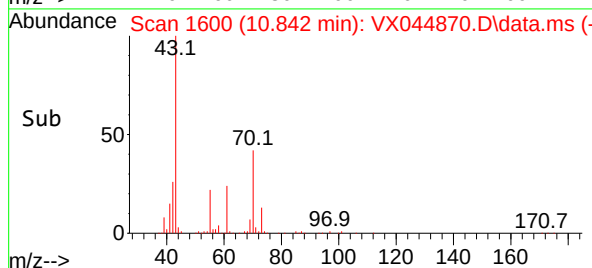
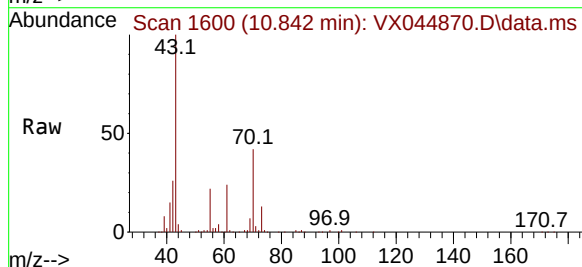
Manual Integrations
APPROVED

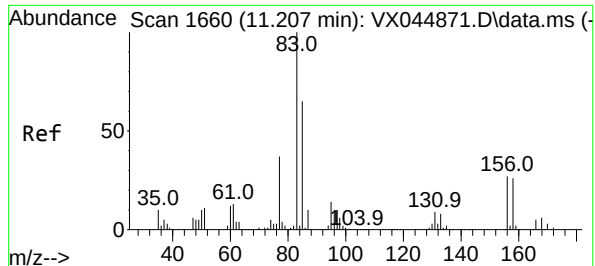
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#74
N-ethyl acetate
Concen: 21.023 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

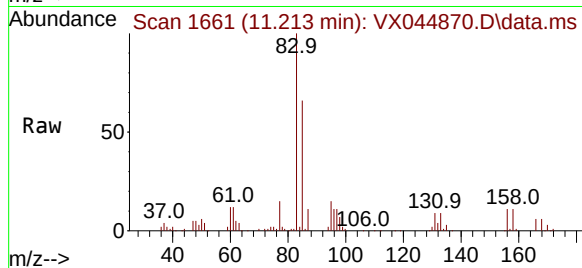
Tgt Ion: 43 Resp: 70542
Ion Ratio Lower Upper
43 100
70 40.7 33.7 50.5
55 22.4 18.6 27.8
61 23.7 19.1 28.7





#75
1,1,2,2-Tetrachloroethane
Concen: 20.787 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

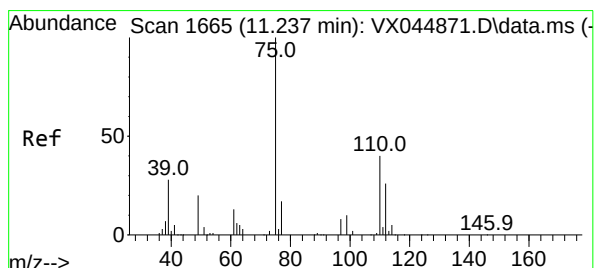
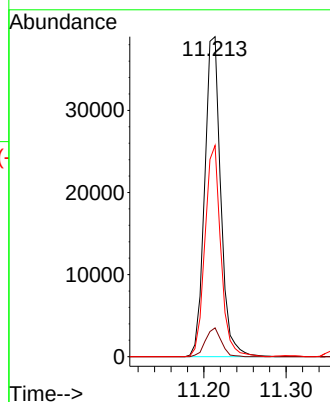
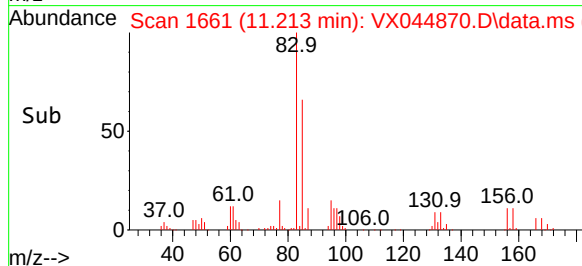
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 83 Resp: 5296
Ion Ratio Lower Upper
83 100
131 8.8 4.5 13.5
85 65.1 32.3 96.8

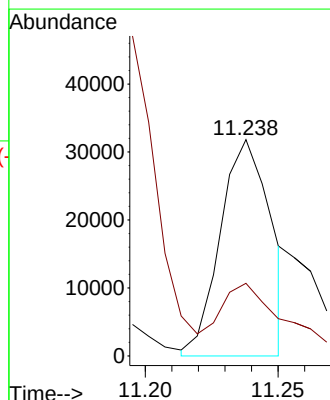
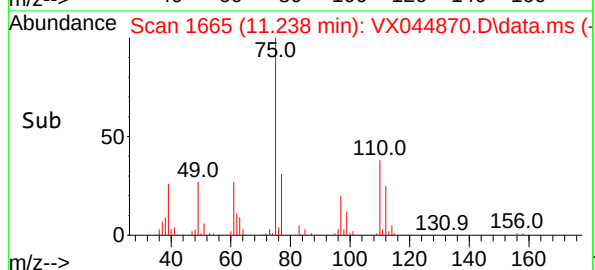
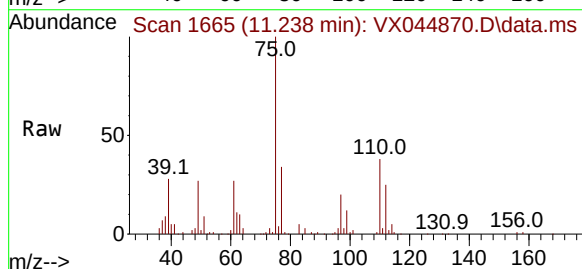
Manual Integrations
APPROVED

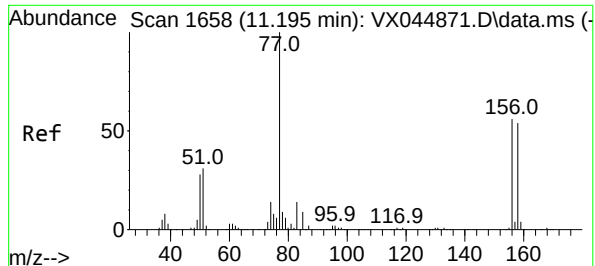
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#76
1,2,3-Trichloropropane
Concen: 20.589 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

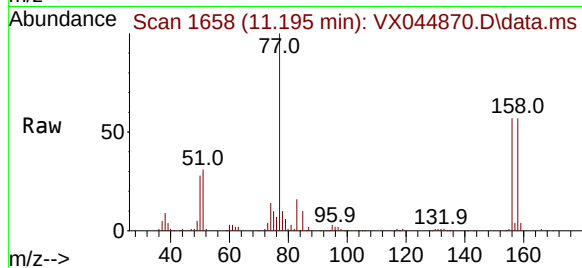
Tgt Ion: 75 Resp: 42040
Ion Ratio Lower Upper
75 100
77 43.7 21.9 65.7





#77
Bromobenzene
Concen: 21.426 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

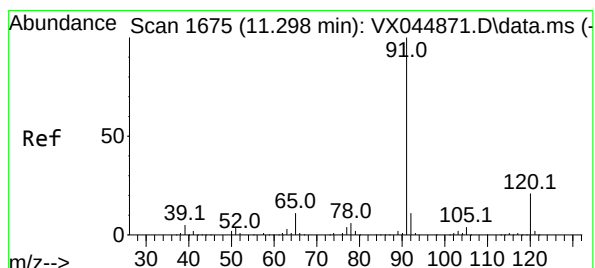
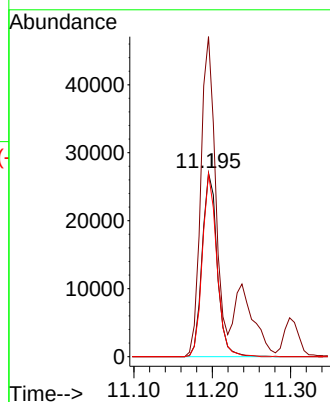
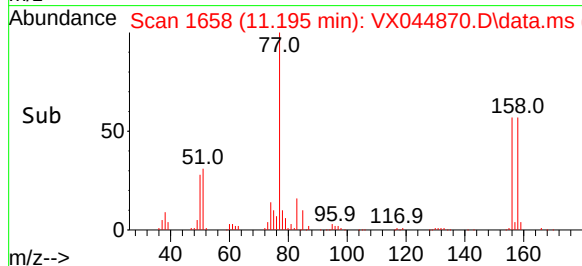
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



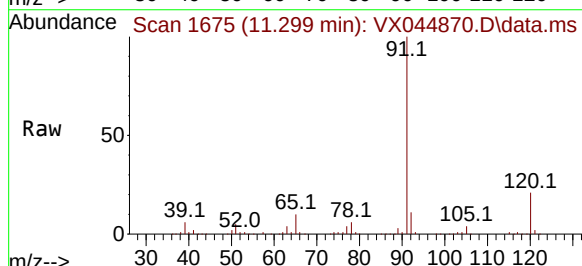
Tgt Ion:156 Resp: 3602
Ion Ratio Lower Upper
156 100
77 171.1 88.4 265.3
158 96.8 48.4 145.2

Manual Integrations
APPROVED

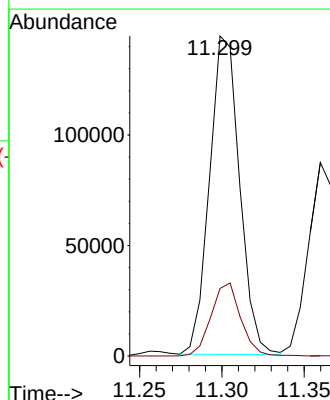
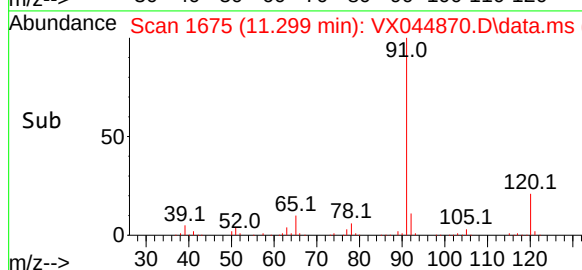
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

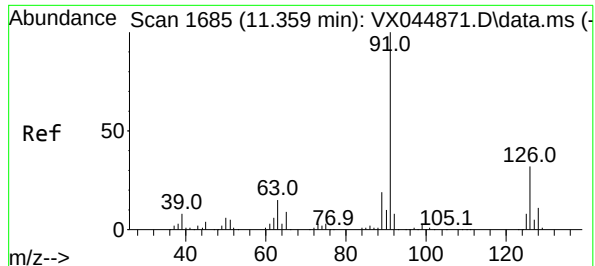


#78
n-propylbenzene
Concen: 21.406 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11



Tgt Ion: 91 Resp: 183212
Ion Ratio Lower Upper
91 100
120 22.6 11.1 33.3





#79

2-Chlorotoluene

Concen: 21.250 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 11178

Ion Ratio Lower Upper

91 100

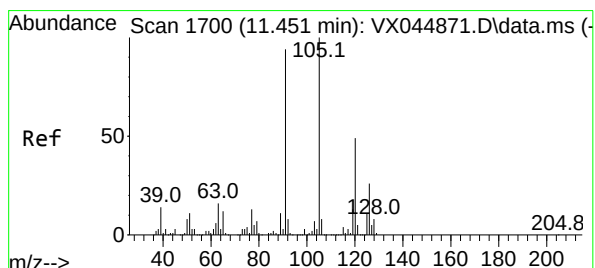
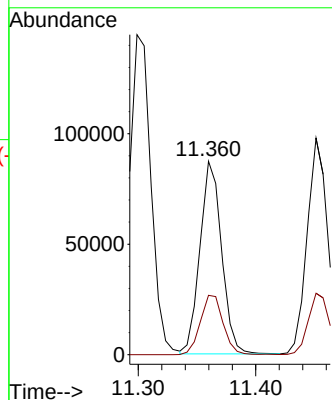
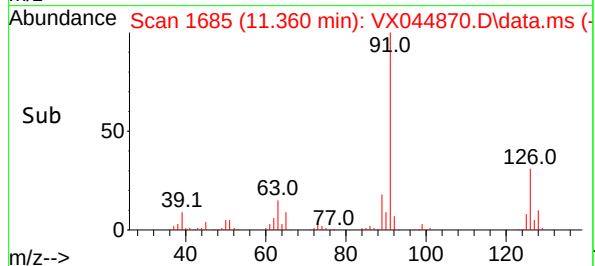
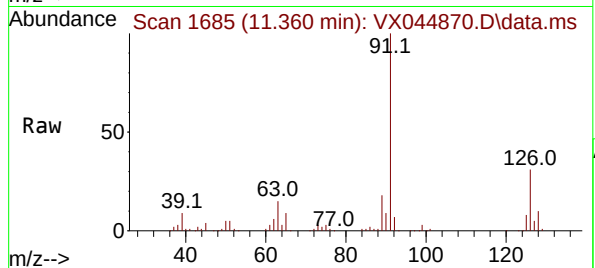
126 32.6 16.2 48.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#80

1,3,5-Trimethylbenzene

Concen: 21.691 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX044870.D

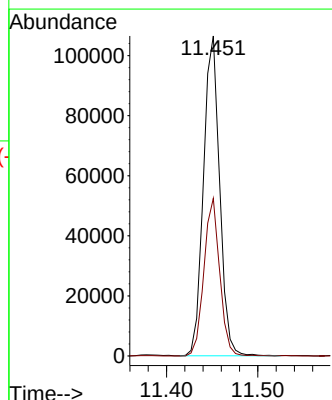
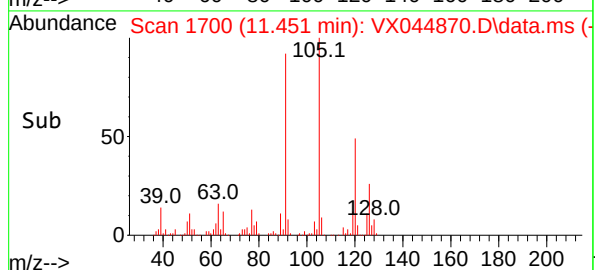
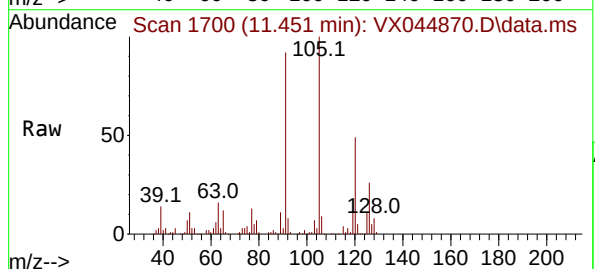
Acq: 10 Feb 2025 11:11

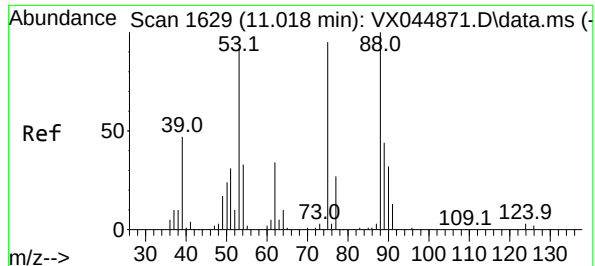
Tgt Ion:105 Resp: 130526

Ion Ratio Lower Upper

105 100

120 48.1 24.0 72.0





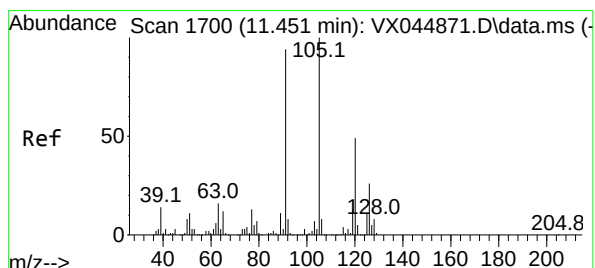
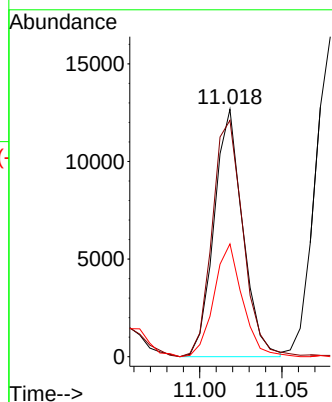
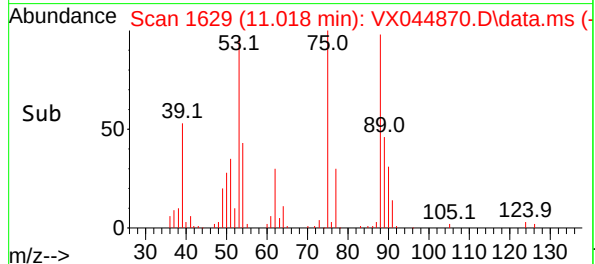
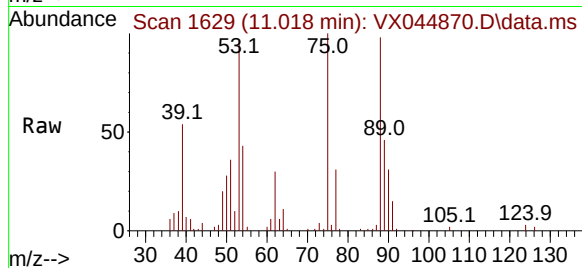
#81
trans-1,4-Dichloro-2-butene
Concen: 19.370 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 15379
Ion Ratio Lower Upper
75 100
53 103.3 78.0 117.0
89 45.3 36.6 54.8

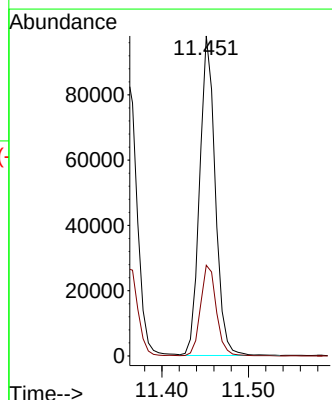
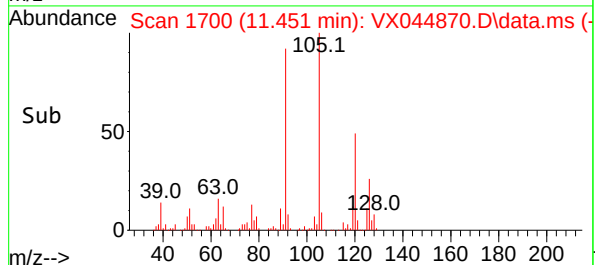
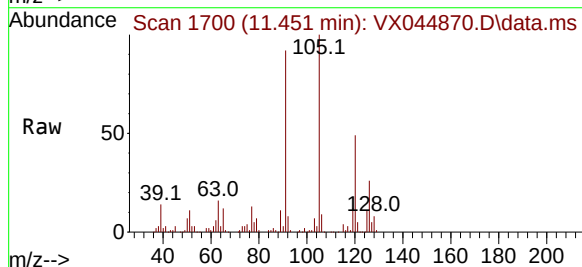
Manual Integrations
APPROVED

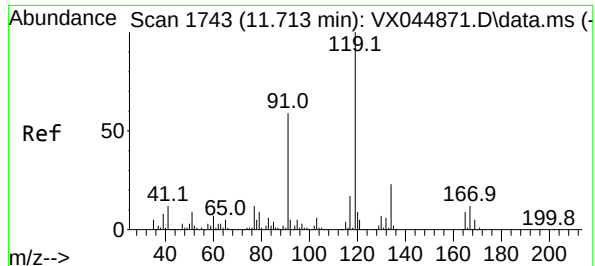
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#82
4-Chlorotoluene
Concen: 21.016 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 91 Resp: 122303
Ion Ratio Lower Upper
91 100
126 28.6 14.2 42.6





#83

tert-Butylbenzene

Concen: 21.414 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion:119 Resp: 130358

Ion Ratio Lower Upper

119 100

91 58.6 29.1 87.4

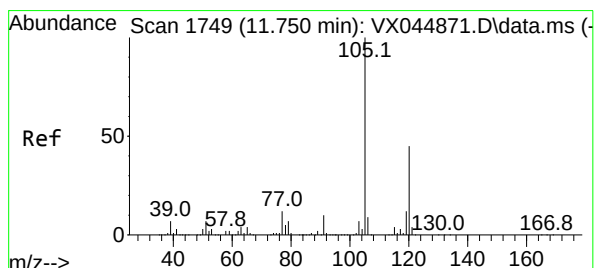
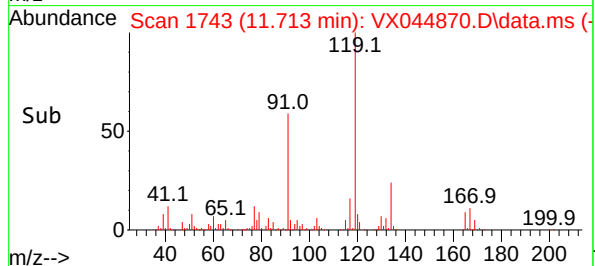
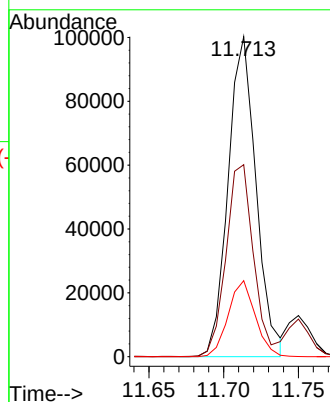
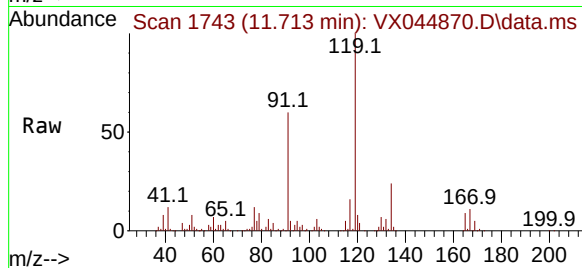
134 23.1 11.5 34.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#84

1,2,4-Trimethylbenzene

Concen: 21.924 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX044870.D

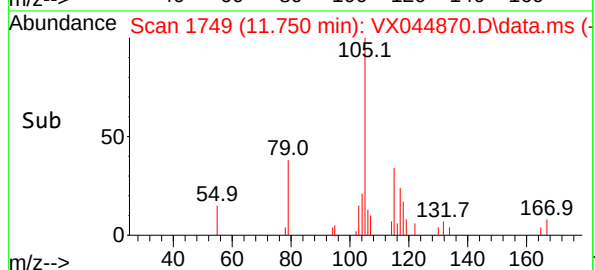
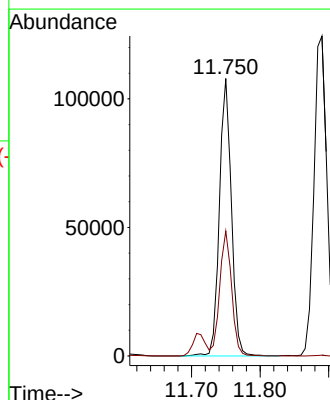
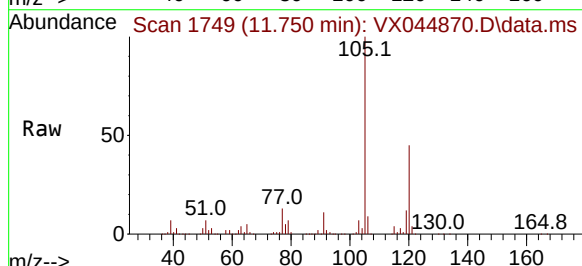
Acq: 10 Feb 2025 11:11

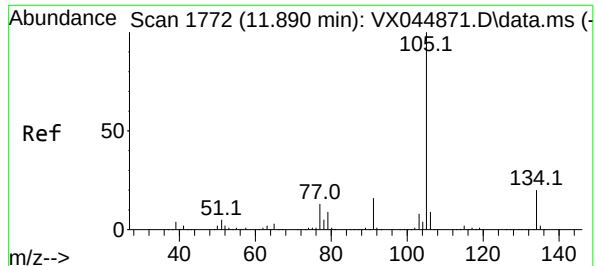
Tgt Ion:105 Resp: 130211

Ion Ratio Lower Upper

105 100

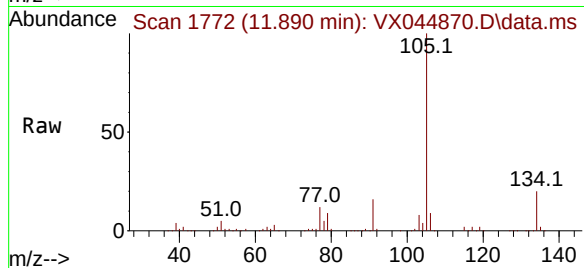
120 44.7 22.4 67.0





#85
sec-Butylbenzene
Concen: 21.607 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

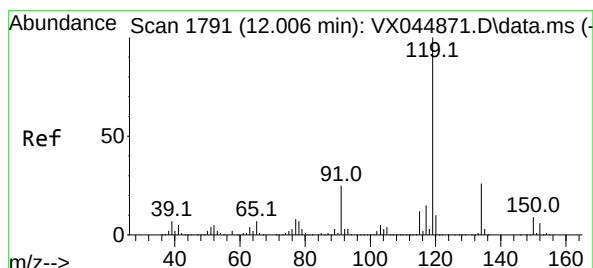
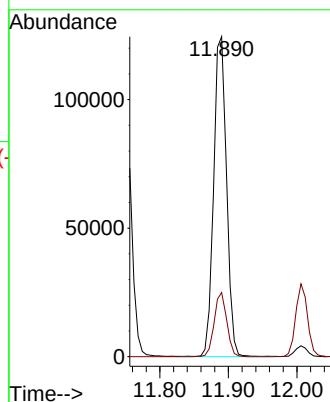
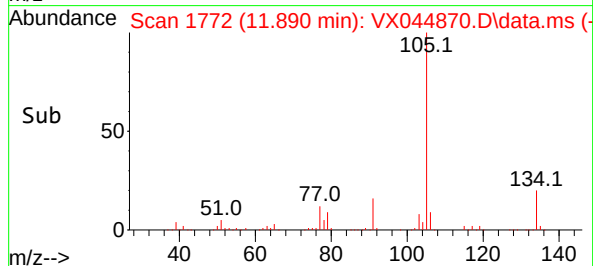
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:105 Resp: 162875
Ion Ratio Lower Upper
105 100
134 19.5 9.8 29.3

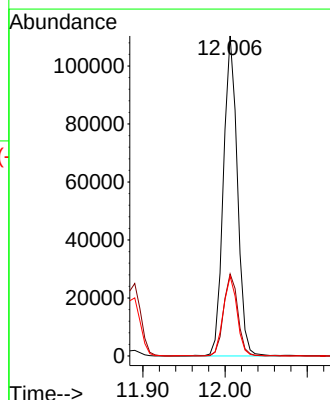
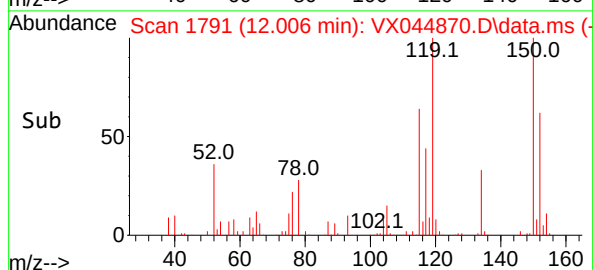
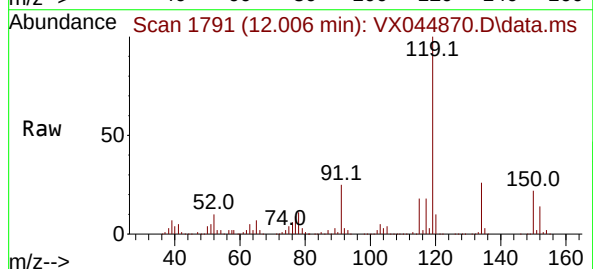
Manual Integrations
APPROVED

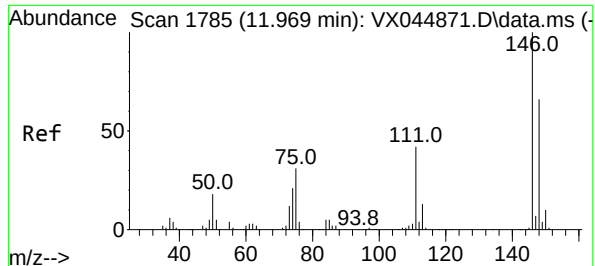
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#86
p-Isopropyltoluene
Concen: 21.551 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:119 Resp: 130643
Ion Ratio Lower Upper
119 100
134 26.0 13.0 38.9
91 24.7 12.1 36.3





#87

1,3-Dichlorobenzene

Concen: 20.747 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:146 Resp: 6414

Ion Ratio Lower Upper

146 100

111 42.4 21.2 63.6

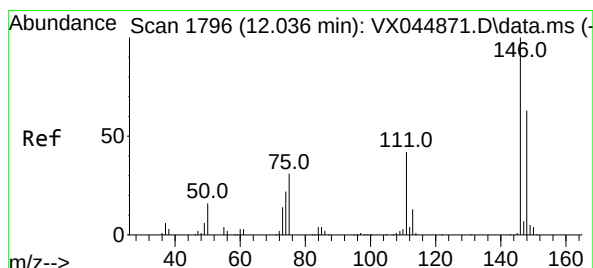
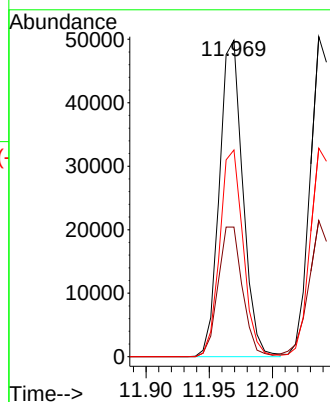
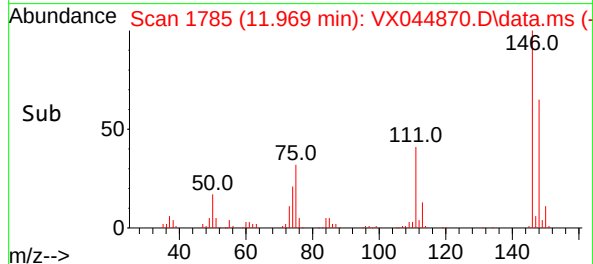
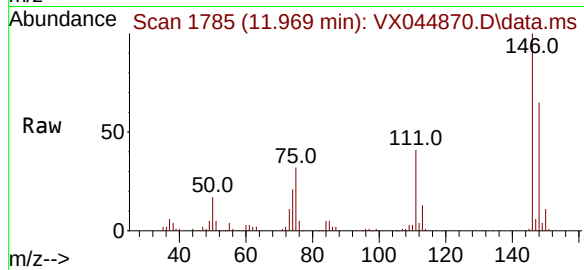
148 65.2 32.5 97.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#88

1,4-Dichlorobenzene

Concen: 20.758 ug/l

RT: 12.037 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

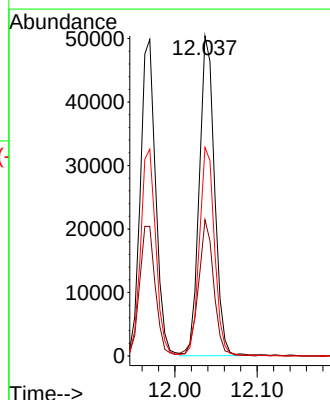
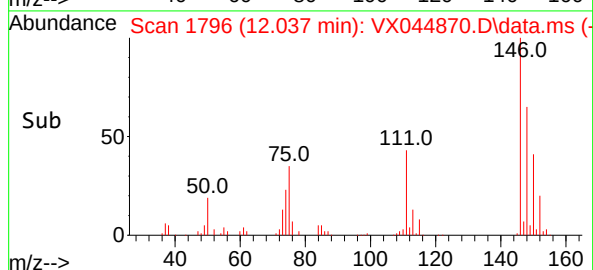
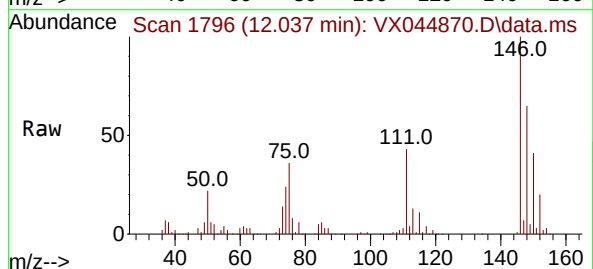
Tgt Ion:146 Resp: 64889

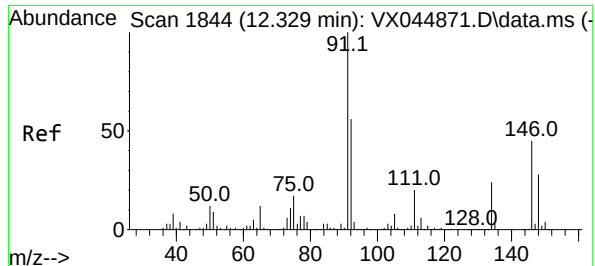
Ion Ratio Lower Upper

146 100

111 42.9 20.4 61.3

148 65.3 32.0 96.0





#89

n-Butylbenzene

Concen: 21.202 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 11370

Ion Ratio Lower Upper

91 100

92 54.3 27.2 81.6

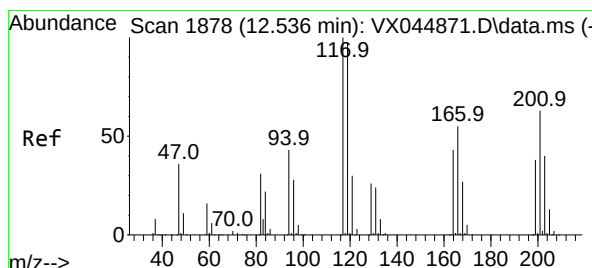
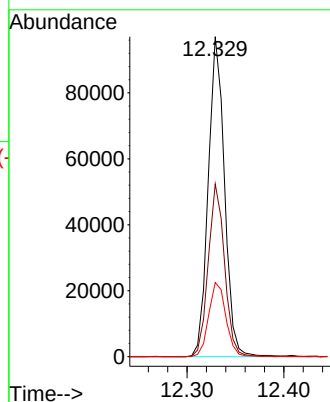
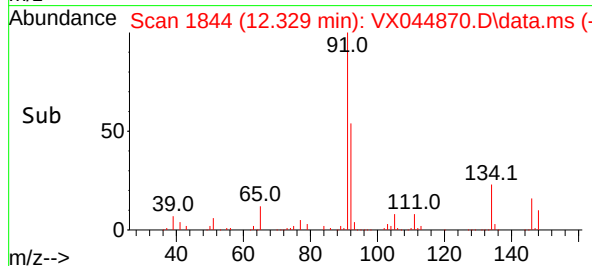
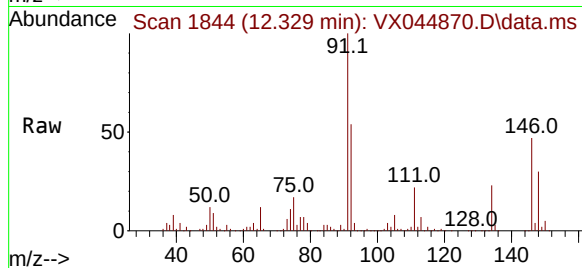
134 24.7 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#90

Hexachloroethane

Concen: 20.398 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX044870.D

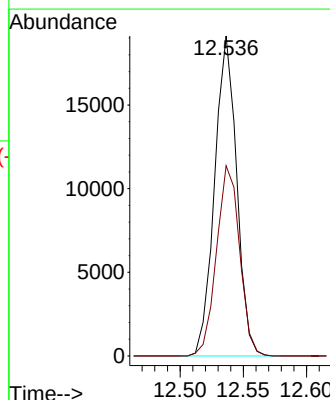
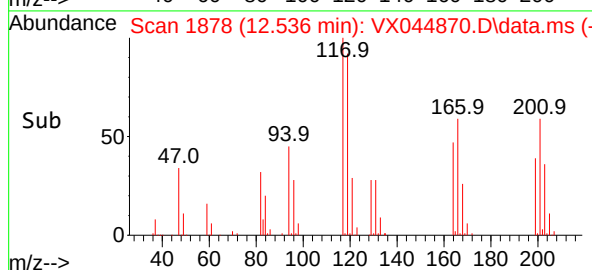
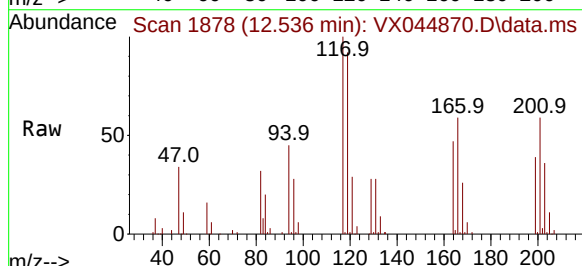
Acq: 10 Feb 2025 11:11

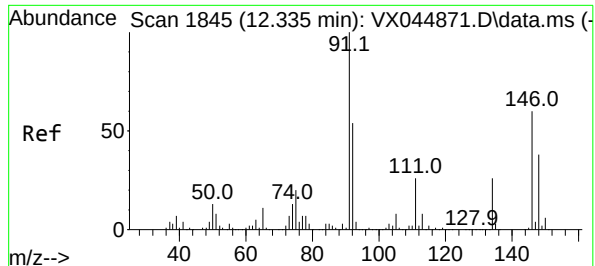
Tgt Ion:117 Resp: 23153

Ion Ratio Lower Upper

117 100

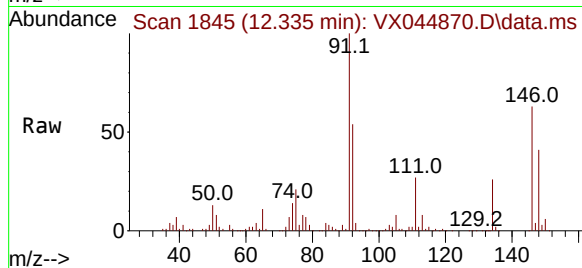
201 62.4 32.5 97.5





#91
1,2-Dichlorobenzene
Concen: 21.373 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

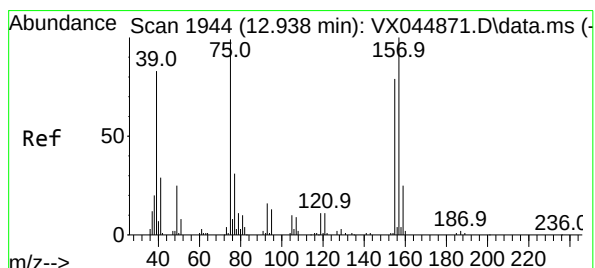
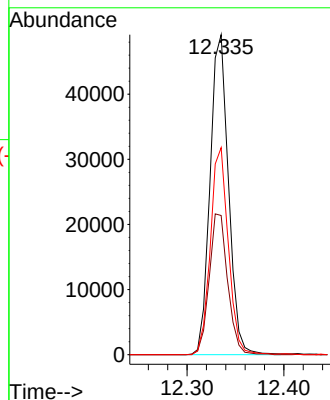
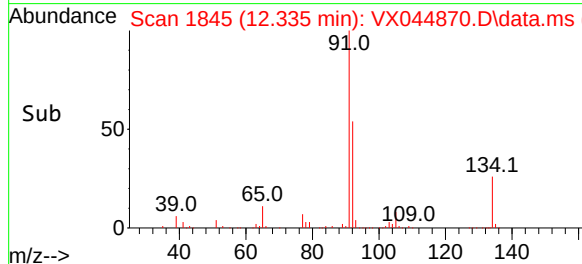
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion:146 Resp: 64940
Ion Ratio Lower Upper
146 100
111 44.4 21.8 65.4
148 63.3 31.9 95.9

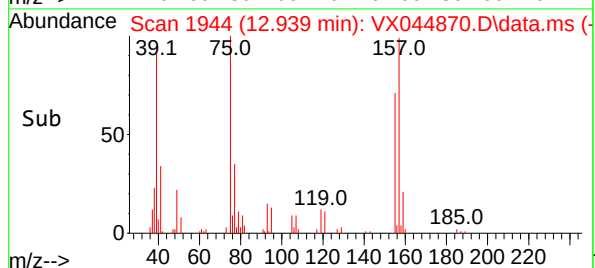
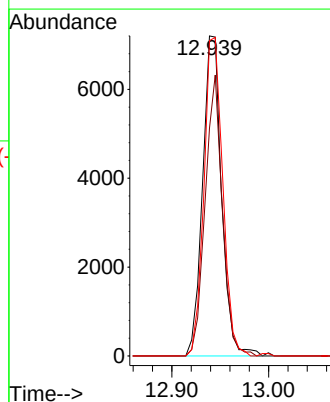
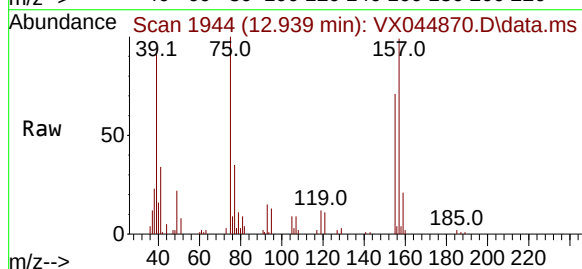
Manual Integrations
APPROVED

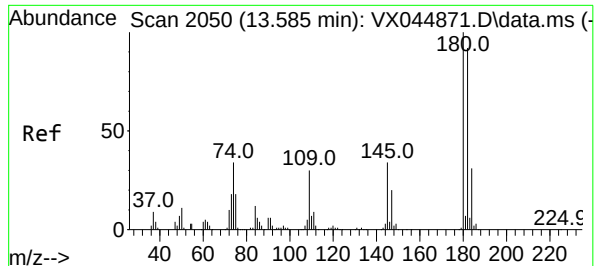
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 21.230 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 75 Resp: 9873
Ion Ratio Lower Upper
75 100
155 79.8 40.5 121.4
157 98.3 51.4 154.3





#93

1,2,4-Trichlorobenzene

Concen: 20.292 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

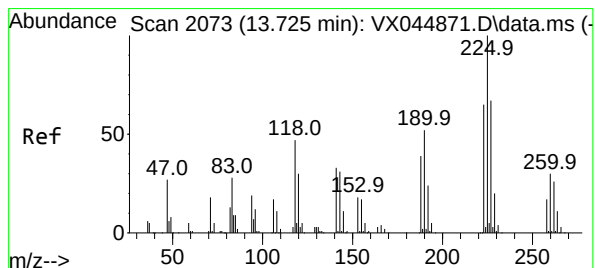
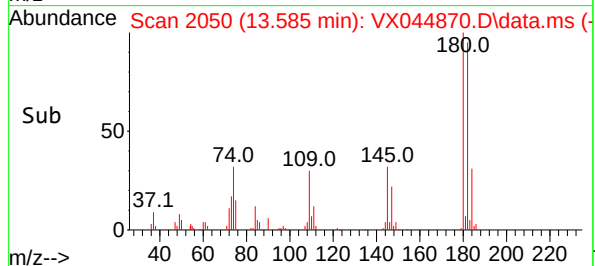
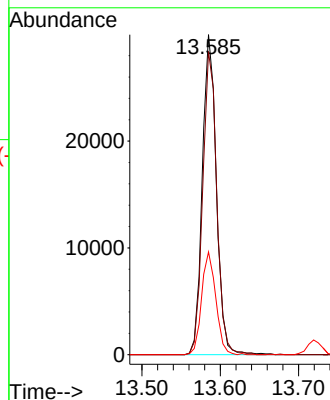
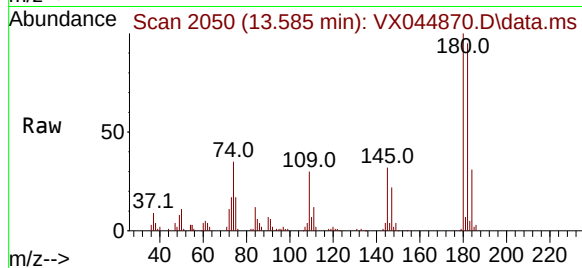
Tgt Ion:180	Resp:	37308
Ion Ratio	Lower	Upper
180	100	
182	94.4	47.6 142.8
145	32.4	16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#94

Hexachlorobutadiene

Concen: 20.979 ug/l

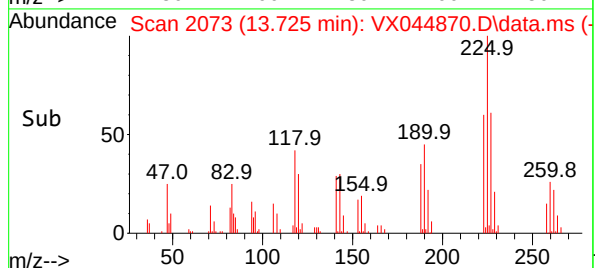
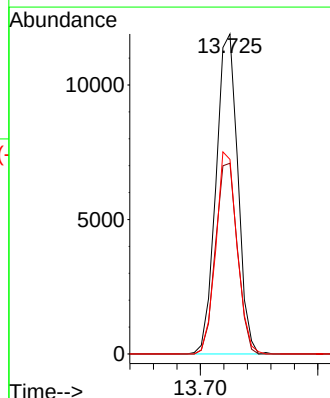
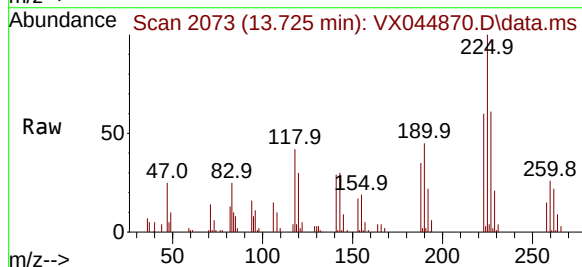
RT: 13.725 min Scan# 2073

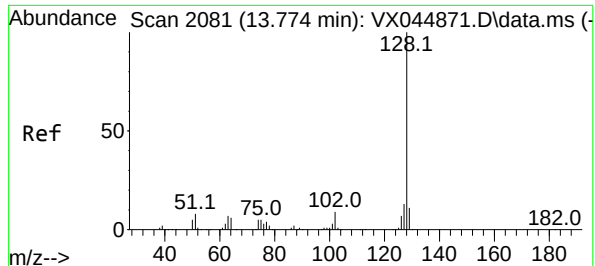
Delta R.T. 0.000 min

Lab File: VX044870.D

Acq: 10 Feb 2025 11:11

Tgt Ion:225	Resp:	15312
Ion Ratio	Lower	Upper
225	100	
223	59.9	31.4 94.2
227	61.4	32.3 96.8





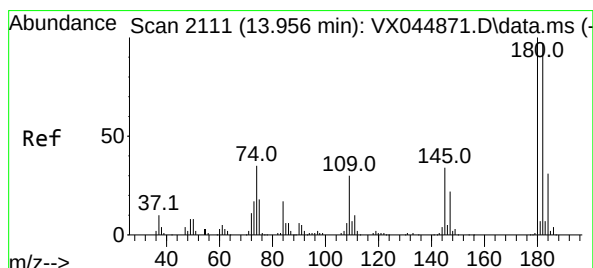
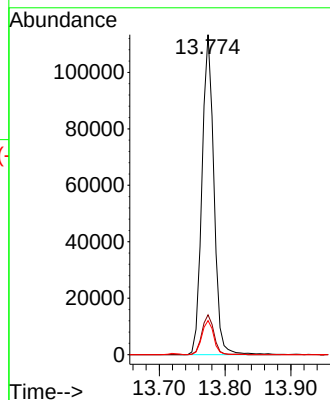
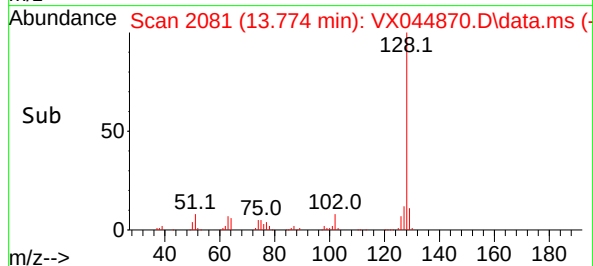
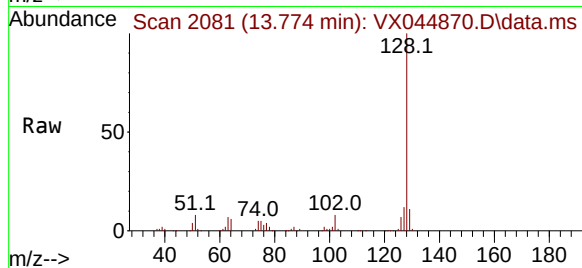
#95
Naphthalene
Concen: 21.502 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:128 Resp: 142902
Ion Ratio Lower Upper
128 100
127 12.6 10.1 15.1
129 10.6 8.9 13.3

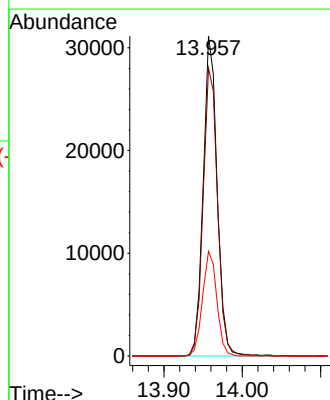
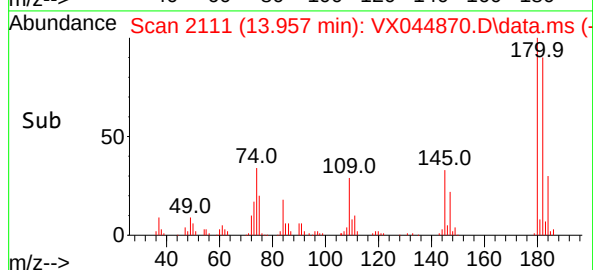
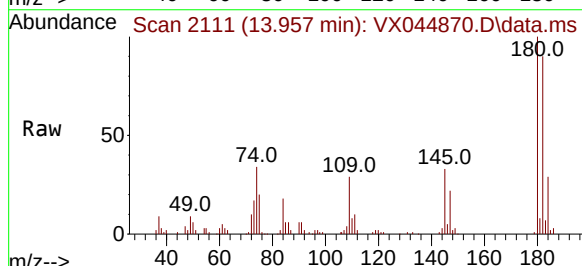
Manual Integrations
APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.722 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:180 Resp: 38389
Ion Ratio Lower Upper
180 100
182 93.2 47.9 143.6
145 33.5 17.1 51.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044871.D
 Acq On : 10 Feb 2025 11:34
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 02:01:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 01:47:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.543	168	127984	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	233736	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	204751	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	92648	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	92593	49.424	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.840%		
35) Dibromofluoromethane	5.379	113	74906	49.291	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.580%		
50) Toluene-d8	8.646	98	289575	50.392	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.780%		
62) 4-Bromofluorobenzene	11.079	95	100798	52.031	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	104.060%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	89581	49.905	ug/l	100
3) Chloromethane	1.300	50	107836	49.359	ug/l	100
4) Vinyl Chloride	1.373	62	103354	48.832	ug/l	100
5) Bromomethane	1.593	94	31886	50.345	ug/l	100
6) Chloroethane	1.666	64	43657	55.583	ug/l	100
7) Trichlorofluoromethane	1.873	101	131729	49.215	ug/l	100
8) Diethyl Ether	2.129	74	48023	49.473	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.318	101	80068	49.511	ug/l	100
10) Methyl Iodide	2.446	142	108383	51.712	ug/l	100
11) Tert butyl alcohol	2.983	59	87254	251.049	ug/l	100
12) 1,1-Dichloroethene	2.312	96	80672	48.904	ug/l	100
13) Acrolein	2.233	56	90518	252.426	ug/l	100
14) Allyl chloride	2.660	41	148044	49.658	ug/l	100
15) Acrylonitrile	3.062	53	242268	261.074	ug/l	100
16) Acetone	2.379	43	187739	249.274	ug/l	100
17) Carbon Disulfide	2.501	76	225511	49.853	ug/l	100
18) Methyl Acetate	2.702	43	121039	50.928	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	261852	49.890	ug/l	100
20) Methylene Chloride	2.782	84	90038	48.808	ug/l	100
21) trans-1,2-Dichloroethene	3.086	96	81950	50.475	ug/l	100
22) Diisopropyl ether	3.757	45	287347	50.946	ug/l	100
23) Vinyl Acetate	3.714	43	1190152	258.830	ug/l	100
24) 1,1-Dichloroethane	3.605	63	157003	49.749	ug/l	100
25) 2-Butanone	4.556	43	323510	264.528	ug/l	100
26) 2,2-Dichloropropane	4.470	77	121901	48.707	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	96965	49.721	ug/l	100
28) Bromochloromethane	4.891	49	74707	49.258	ug/l	100
29) Tetrahydrofuran	5.001	42	210414	259.105	ug/l	100
30) Chloroform	5.086	83	149581	48.874	ug/l	100
31) Cyclohexane	5.464	56	143500	49.322	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	128561	49.523	ug/l	100
36) 1,1-Dichloropropene	5.690	75	108206	49.353	ug/l	100
37) Ethyl Acetate	4.708	43	123238	50.535	ug/l	100
38) Carbon Tetrachloride	5.671	117	105873	49.277	ug/l	100
39) Methylcyclohexane	7.372	83	145338	51.274	ug/l	100
40) Benzene	6.031	78	343557	50.182	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044871.D
 Acq On : 10 Feb 2025 11:34
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 02:01:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 01:47:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.915	41	70572	54.065	ug/l	100
42) 1,2-Dichloroethane	6.080	62	110347	50.573	ug/l	100
43) Isopropyl Acetate	6.336	43	204703	51.981	ug/l	100
44) Trichloroethene	7.122	130	78274	50.020	ug/l	100
45) 1,2-Dichloropropane	7.427	63	85733	50.335	ug/l	100
46) Dibromomethane	7.573	93	59625	50.479	ug/l	100
47) Bromodichloromethane	7.817	83	116892	51.108	ug/l	100
48) Methyl methacrylate	7.689	41	98519	53.057	ug/l	100
49) 1,4-Dioxane	7.659	88	42094	1056.618	ug/l	100
51) 4-Methyl-2-Pentanone	8.573	43	647283	270.364	ug/l	100
52) Toluene	8.714	92	210007	51.507	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	120125	51.902	ug/l	100
54) cis-1,3-Dichloropropene	8.360	75	134763	52.223	ug/l	100
55) 1,1,2-Trichloroethane	9.146	97	79741	50.876	ug/l	100
56) Ethyl methacrylate	9.116	69	134975	53.319	ug/l	100
57) 1,3-Dichloropropane	9.305	76	141335	51.537	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	336412	270.652	ug/l	100
59) 2-Hexanone	9.427	43	472301	273.800	ug/l	100
60) Dibromochloromethane	9.518	129	87240	52.045	ug/l	100
61) 1,2-Dibromoethane	9.604	107	81915	51.564	ug/l	100
64) Tetrachloroethene	9.268	164	63537	49.206	ug/l	100
65) Chlorobenzene	10.079	112	224306	51.005	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.158	131	72478	51.203	ug/l	100
67) Ethyl Benzene	10.189	91	396269	51.061	ug/l	100
68) m/p-Xylenes	10.299	106	296507	103.573	ug/l	100
69) o-Xylene	10.640	106	144802	50.409	ug/l	100
70) Styrene	10.652	104	245518	53.051	ug/l	100
71) Bromoform	10.799	173	57417	54.352	ug/l #	100
73) Isopropylbenzene	10.957	105	374776	50.239	ug/l	100
74) N-amyl acetate	10.841	43	176174	52.189	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.207	83	126542	49.364	ug/l	100
76) 1,2,3-Trichloropropane	11.237	75	102508m	49.903	ug/l	
77) Bromobenzene	11.195	156	84448	49.931	ug/l	100
78) n-propylbenzene	11.298	91	437572	50.818	ug/l	100
79) 2-Chlorotoluene	11.359	91	263269	49.749	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	307465	50.789	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	40487	50.701	ug/l	100
82) 4-Chlorotoluene	11.451	91	295844	50.531	ug/l	100
83) tert-Butylbenzene	11.713	119	306830	50.102	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	311205	52.085	ug/l	100
85) sec-Butylbenzene	11.890	105	384155	50.657	ug/l	100
86) p-Isopropyltoluene	12.006	119	315226	51.689	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	155575	50.021	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	156162	49.657	ug/l	100
89) n-Butylbenzene	12.329	91	287649	53.315	ug/l	100
90) Hexachloroethane	12.536	117	56951	49.874	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	154364	50.500	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.938	75	23924	51.135	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	93863	50.747	ug/l	100
94) Hexachlorobutadiene	13.725	225	35481	48.321	ug/l	100
95) Naphthalene	13.774	128	347645	51.995	ug/l	100
96) 1,2,3-Trichlorobenzene	13.956	180	95510	51.245	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044871.D
Acq On : 10 Feb 2025 11:34
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By : John Carlone 02/11/2025
Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 02:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

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

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

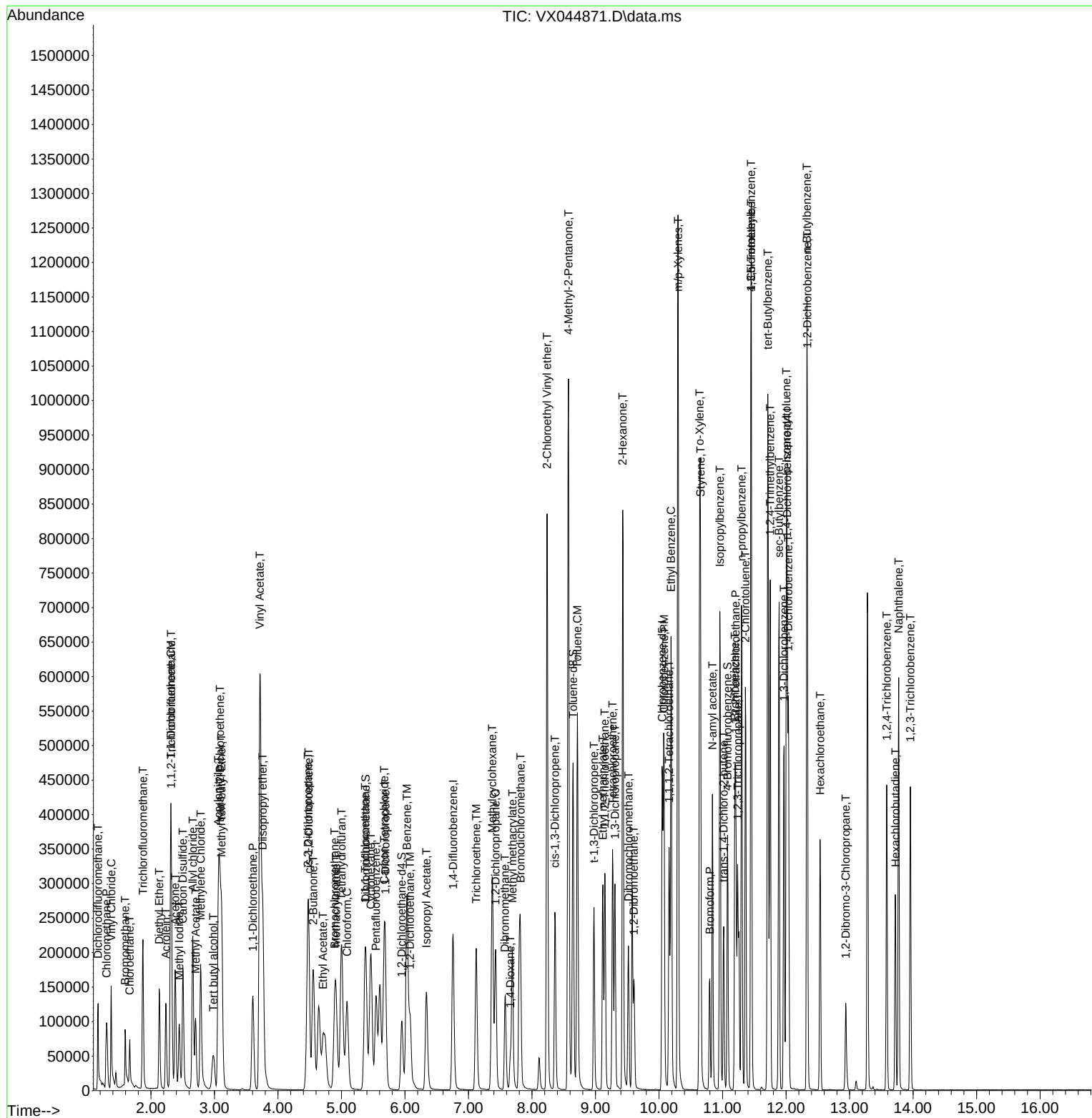
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044871.D
 Acq On : 10 Feb 2025 11:34
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

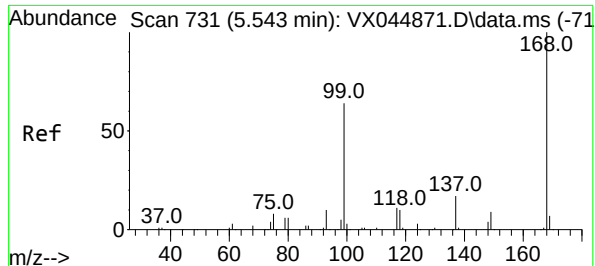
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Quant Time: Feb 11 02:01:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 01:47:50 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

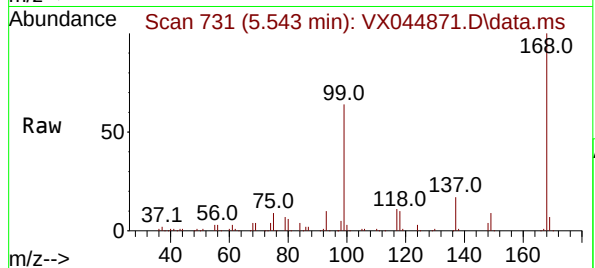
Reviewed By : John Carlone 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

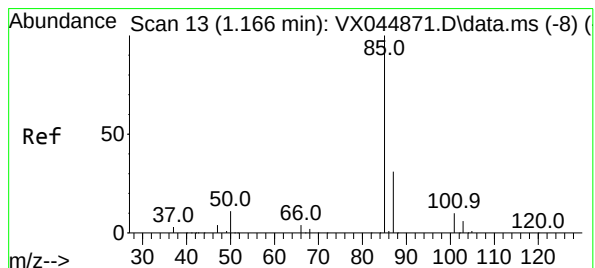
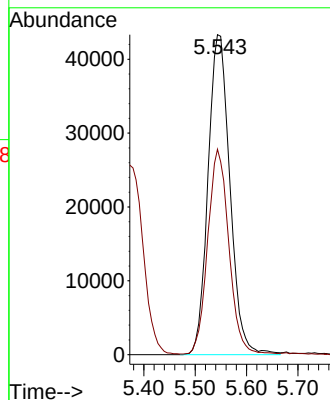
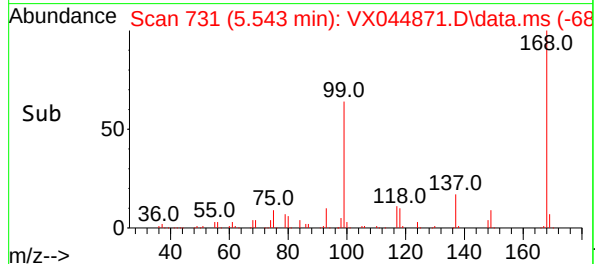
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:168 Resp: 127984
Ion Ratio Lower Upper
168 100
99 64.0 51.2 76.8

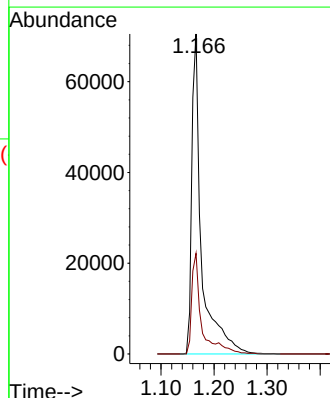
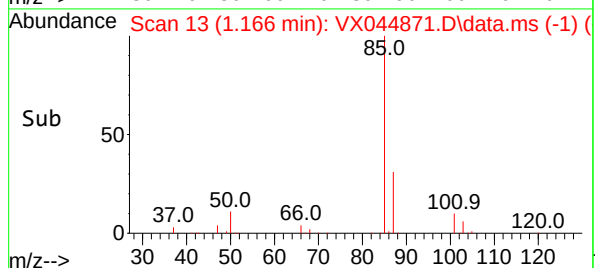
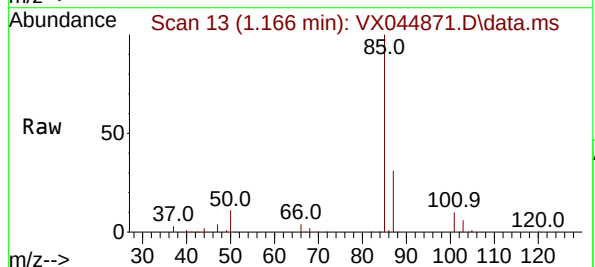
Manual Integrations
APPROVED

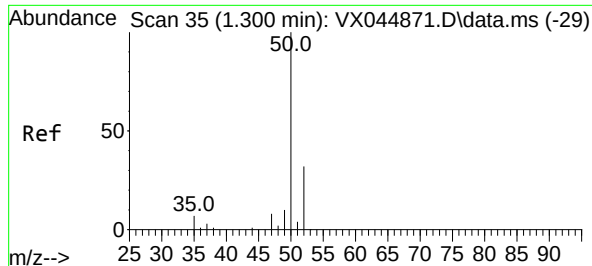
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#2
Dichlorodifluoromethane
Concen: 49.905 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

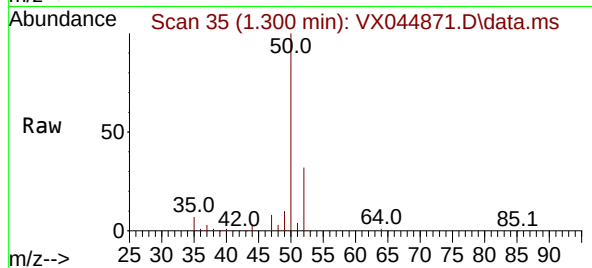
Tgt Ion: 85 Resp: 89581
Ion Ratio Lower Upper
85 100
87 31.5 15.8 47.3





#3
Chloromethane
Concen: 49.359 ug/l
RT: 1.300 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

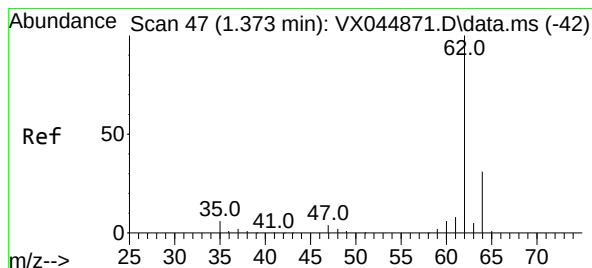
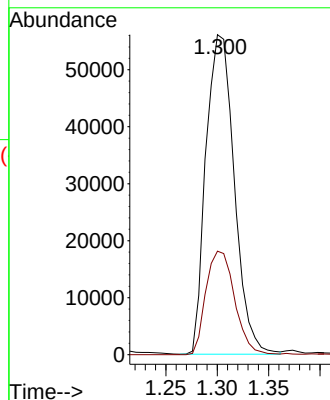
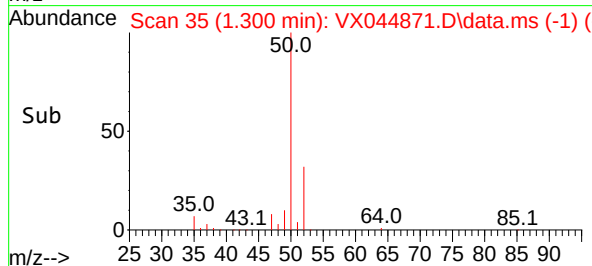
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 50 Resp: 107830
Ion Ratio Lower Upper
50 100
52 32.4 25.9 38.9

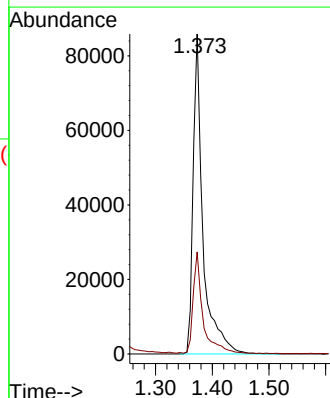
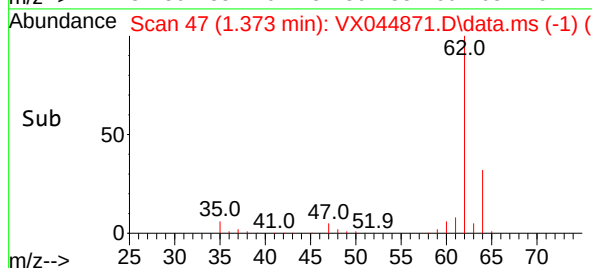
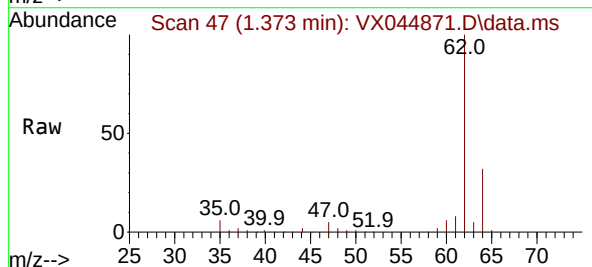
Manual Integrations
APPROVED

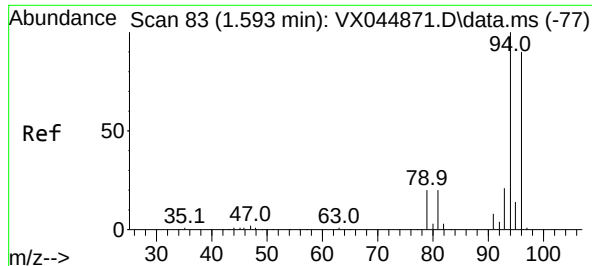
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#4
Vinyl Chloride
Concen: 48.832 ug/l
RT: 1.373 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 62 Resp: 103354
Ion Ratio Lower Upper
62 100
64 31.7 25.4 38.0





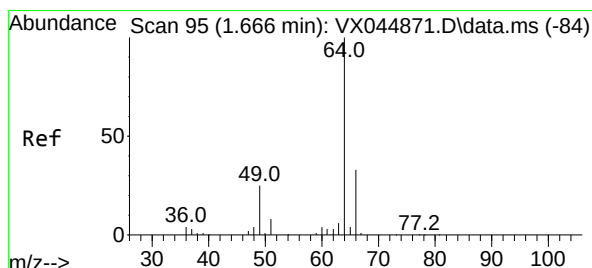
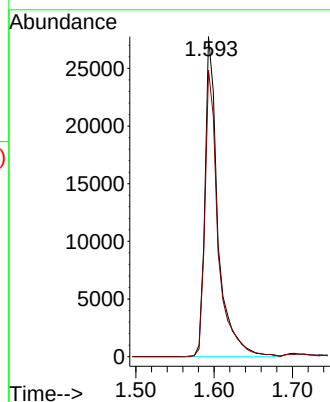
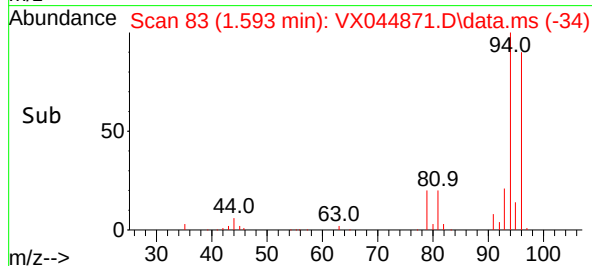
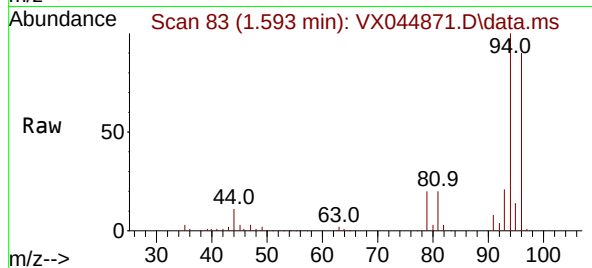
#5
Bromomethane
Concen: 50.345 ug/l
RT: 1.593 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 31880
Ion Ratio Lower Upper
94 100
96 89.5 71.6 107.4

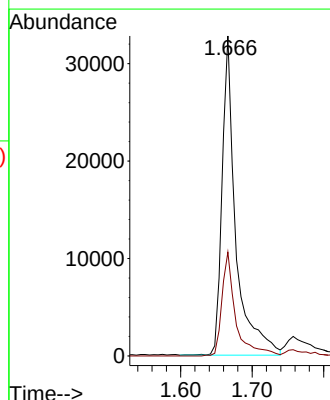
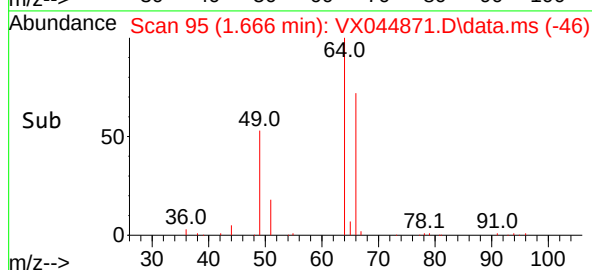
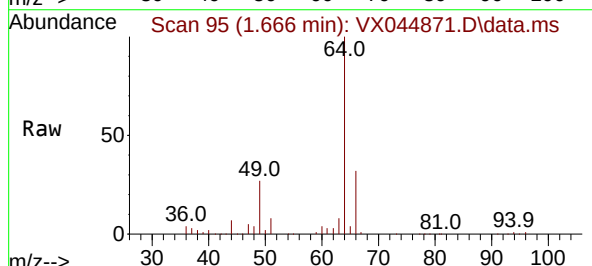
Manual Integrations
APPROVED

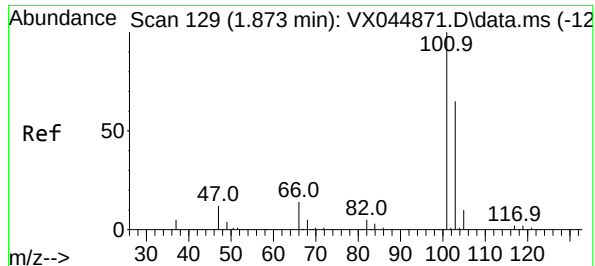
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#6
Chloroethane
Concen: 55.583 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

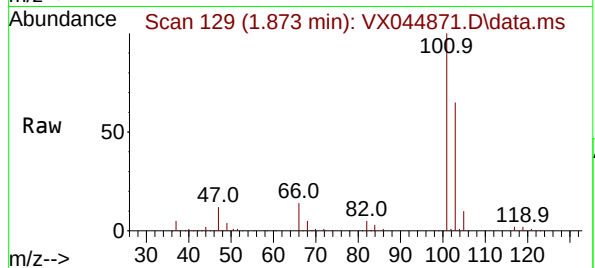
Tgt Ion: 64 Resp: 43657
Ion Ratio Lower Upper
64 100
66 32.5 25.9 38.9





#7
Trichlorofluoromethane
Concen: 49.215 ug/l
RT: 1.873 min Scan# 129
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

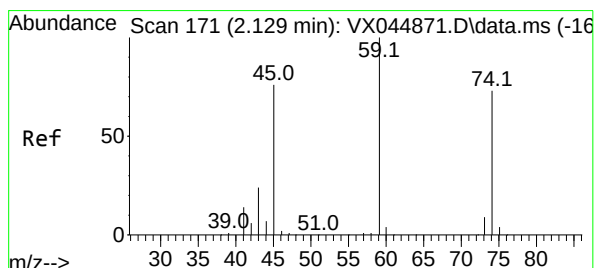
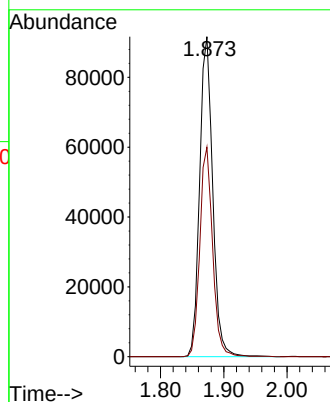
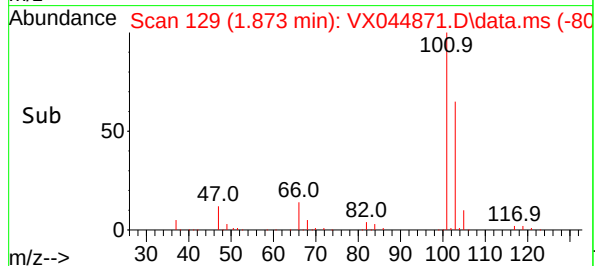
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:101 Resp: 131729
Ion Ratio Lower Upper
101 100
103 65.5 52.4 78.6

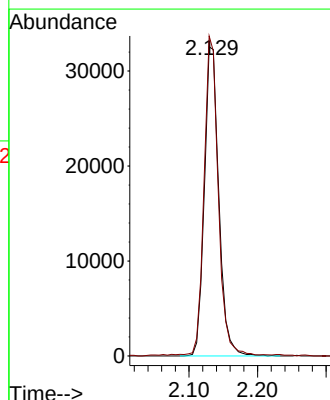
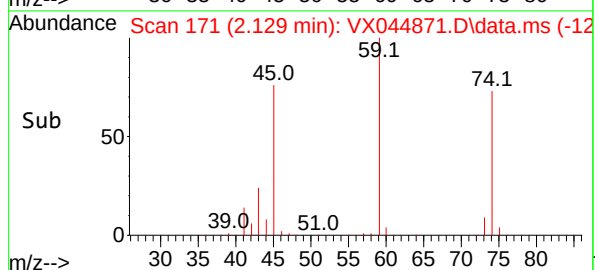
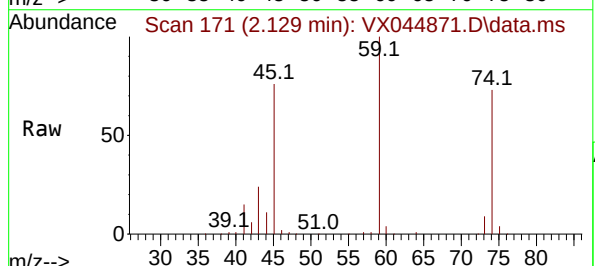
Manual Integrations
APPROVED

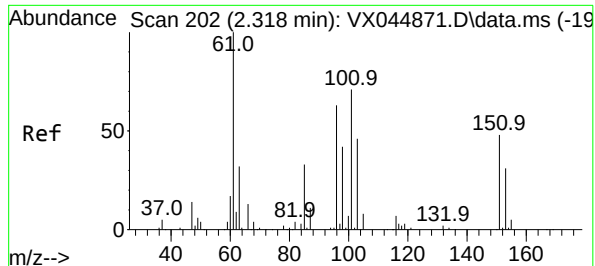
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#8
Diethyl Ether
Concen: 49.473 ug/l
RT: 2.129 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 74 Resp: 48023
Ion Ratio Lower Upper
74 100
45 102.3 51.1 153.4





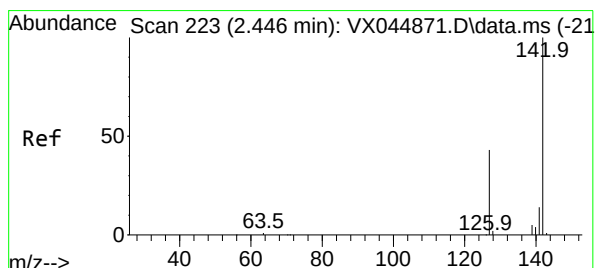
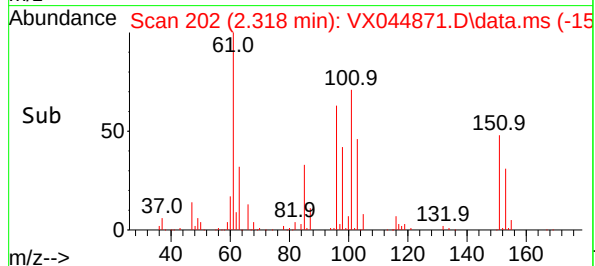
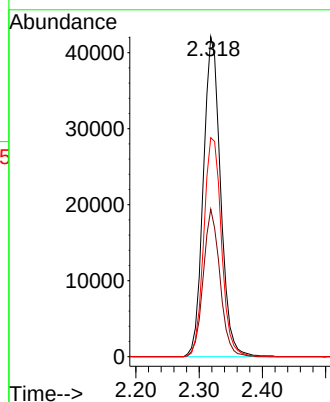
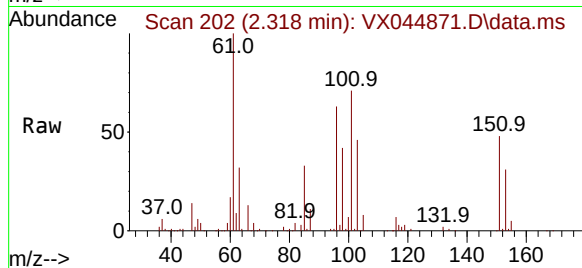
#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.511 ug/l
RT: 2.318 min Scan# 202
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 8006
Ion Ratio Lower Upper
101 100
85 44.6 35.7 53.5
151 70.0 56.0 84.0

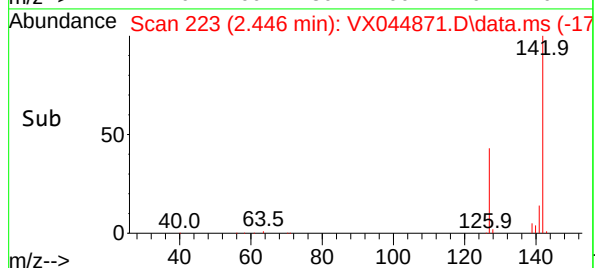
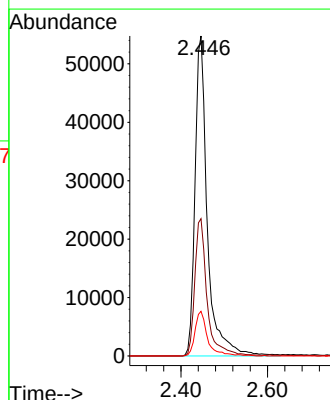
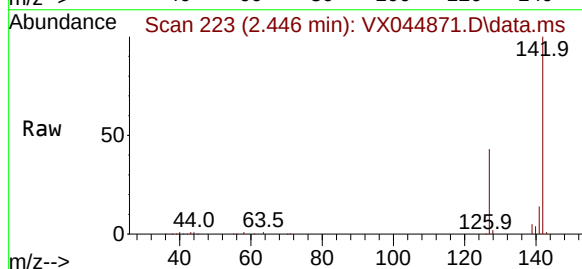
Manual Integrations
APPROVED

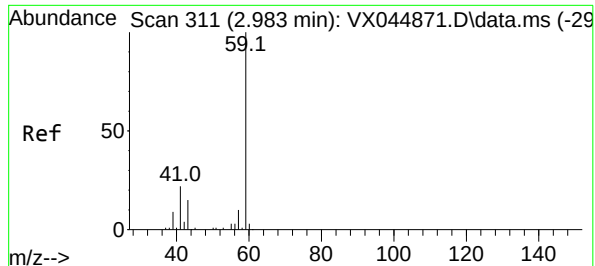
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#10
Methyl Iodide
Concen: 51.712 ug/l
RT: 2.446 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

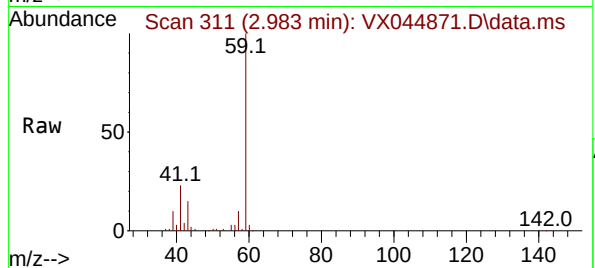
Tgt Ion:142 Resp: 108383
Ion Ratio Lower Upper
142 100
127 42.9 34.3 51.5
141 14.3 11.4 17.2





#11
Tert butyl alcohol
Concen: 251.049 ug/l
RT: 2.983 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

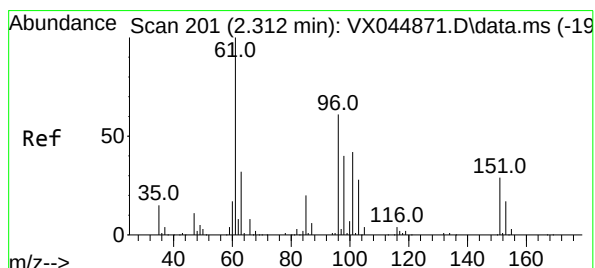
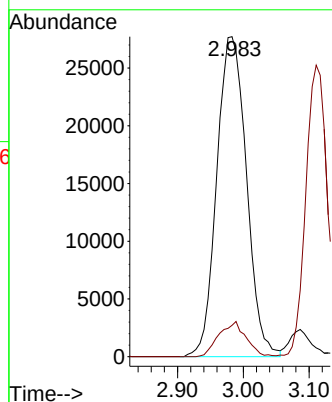
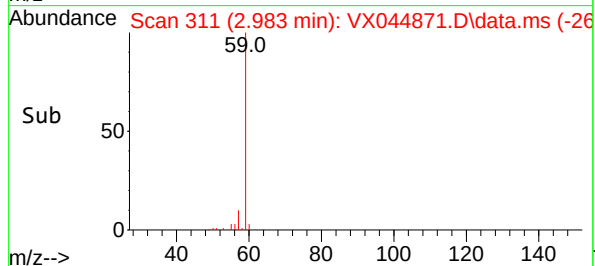
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 59 Resp: 87254
Ion Ratio Lower Upper
59 100
57 10.1 8.1 12.1

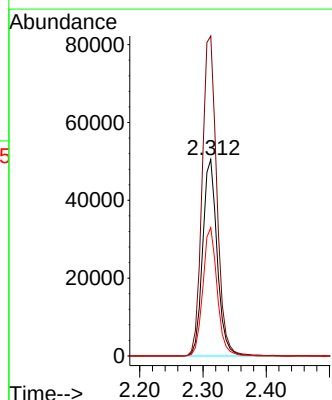
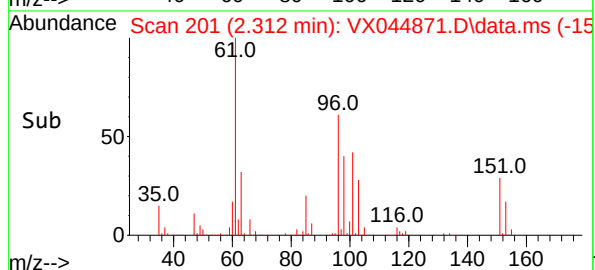
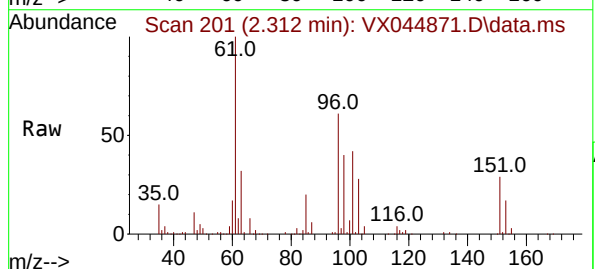
Manual Integrations
APPROVED

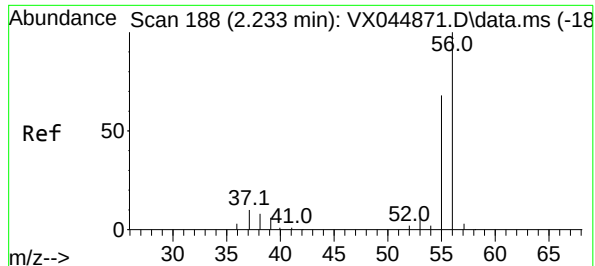
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#12
1,1-Dichloroethene
Concen: 48.904 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 96 Resp: 80672
Ion Ratio Lower Upper
96 100
61 162.8 130.2 195.4
98 65.3 52.2 78.4





#13

Acrolein

Concen: 252.426 ug/l

RT: 2.233 min Scan# 188

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 90518

Ion Ratio Lower Upper

56 100

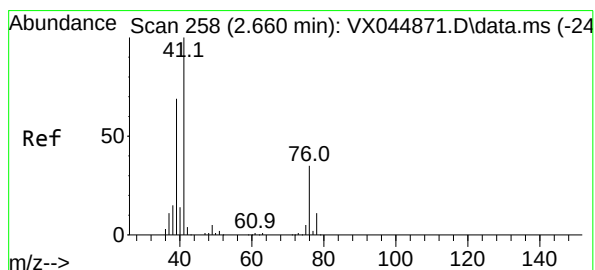
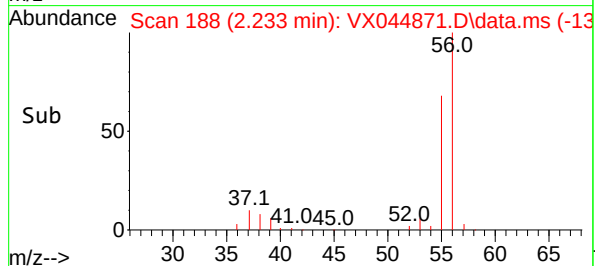
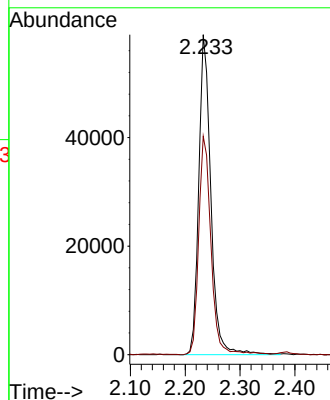
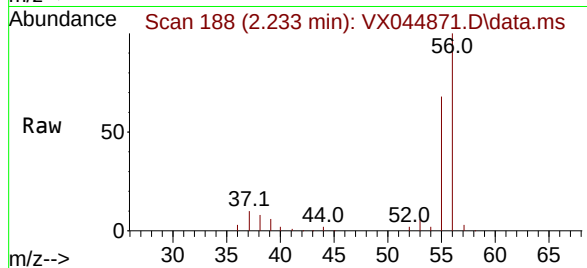
55 69.6 55.7 83.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#14

Allyl chloride

Concen: 49.658 ug/l

RT: 2.660 min Scan# 258

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

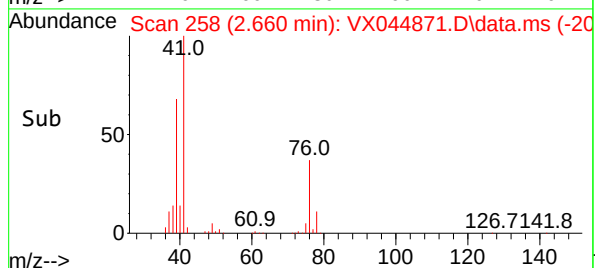
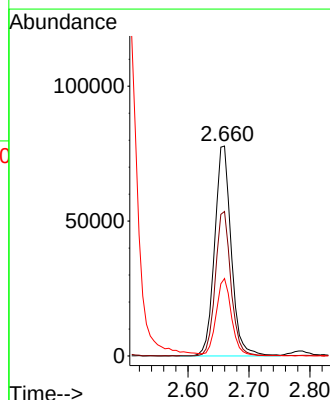
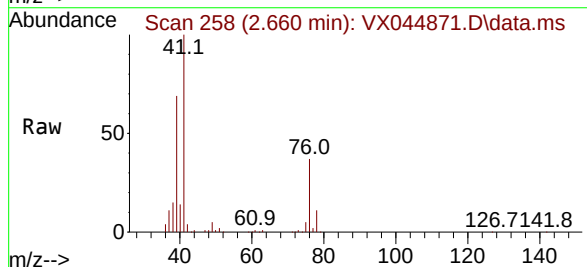
Tgt Ion: 41 Resp: 148044

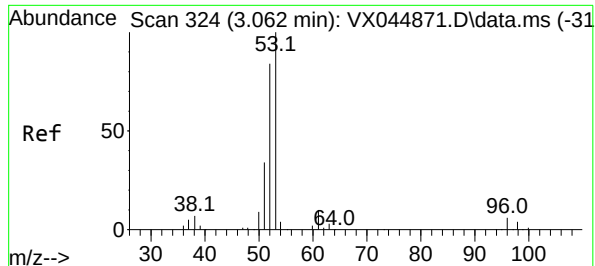
Ion Ratio Lower Upper

41 100

39 64.3 51.4 77.2

76 33.7 27.0 40.4





#15

Acrylonitrile

Concen: 261.074 ug/l

RT: 3.062 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 53 Resp: 242268

Ion Ratio Lower Upper

53 100

52 81.3 65.0 97.6

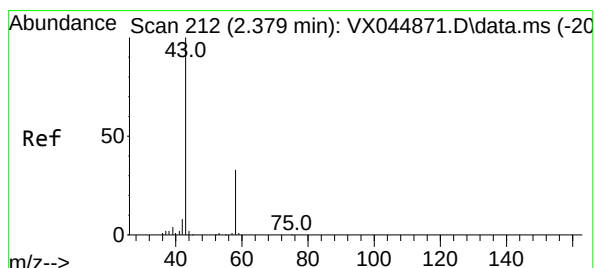
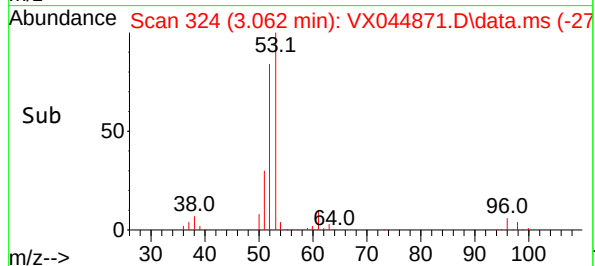
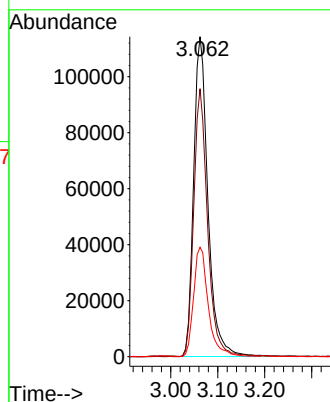
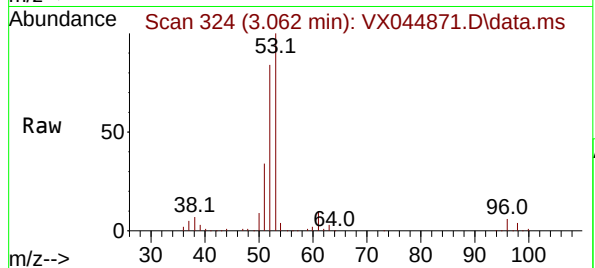
51 35.0 28.0 42.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#16

Acetone

Concen: 249.274 ug/l

RT: 2.379 min Scan# 212

Delta R.T. 0.000 min

Lab File: VX044871.D

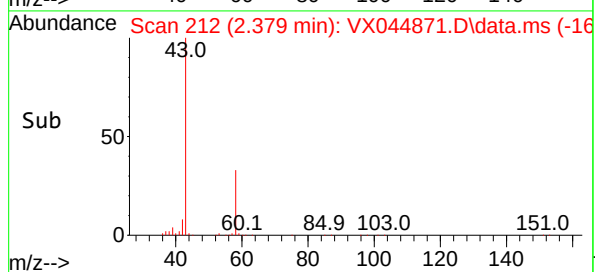
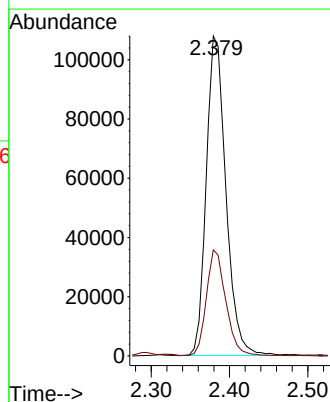
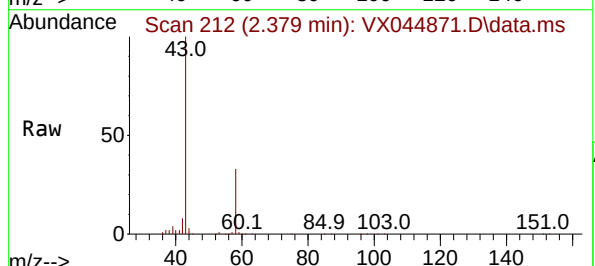
Acq: 10 Feb 2025 11:34

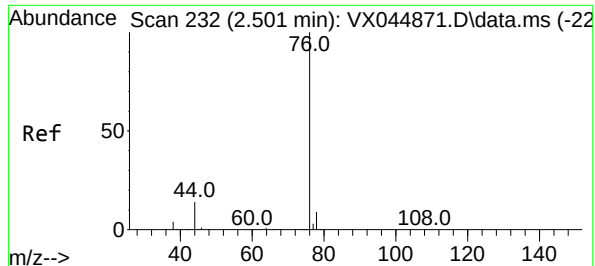
Tgt Ion: 43 Resp: 187739

Ion Ratio Lower Upper

43 100

58 33.1 26.5 39.7





#17

Carbon Disulfide

Concen: 49.853 ug/l

RT: 2.501 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Tgt Ion: 76 Resp: 22551

Ion Ratio Lower Upper

76 100

78 8.7 7.0 10.4

Instrument :

MSVOA_X

ClientSampleId :

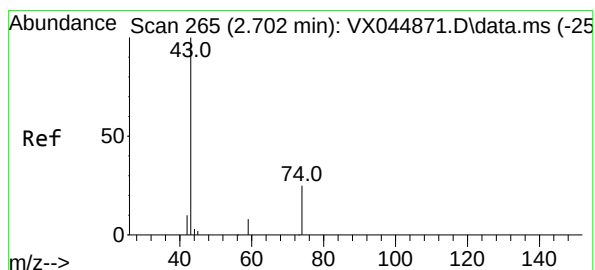
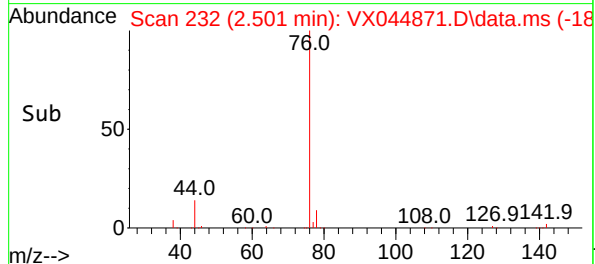
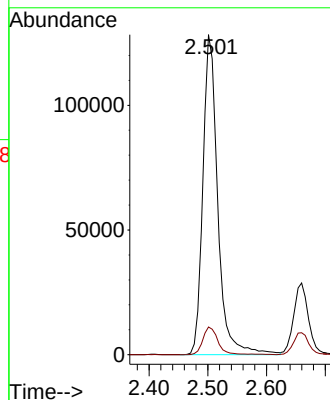
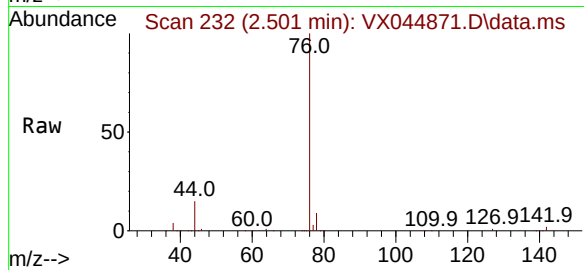
VSTDICCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#18

Methyl Acetate

Concen: 50.928 ug/l

RT: 2.702 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX044871.D

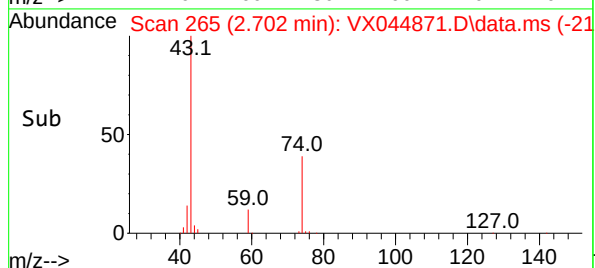
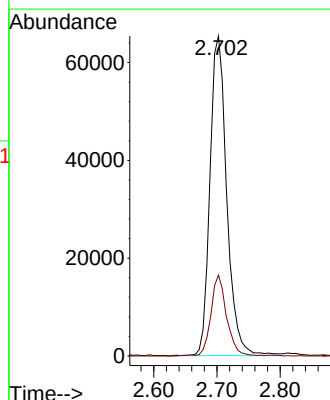
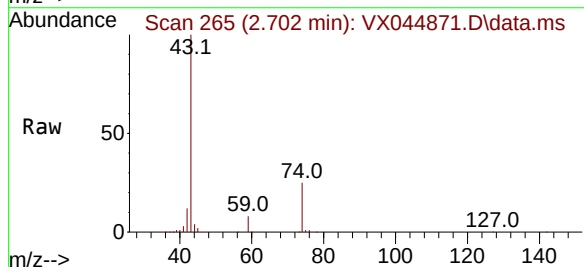
Acq: 10 Feb 2025 11:34

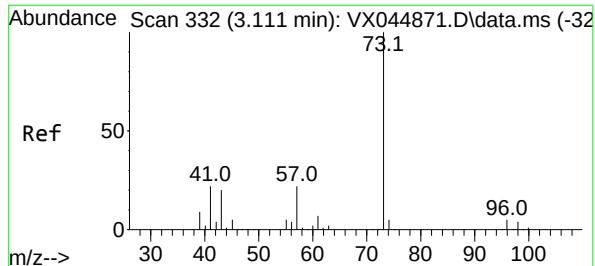
Tgt Ion: 43 Resp: 121039

Ion Ratio Lower Upper

43 100

74 23.6 18.9 28.3





#19

Methyl tert-butyl Ether

Concen: 49.890 ug/l

RT: 3.111 min Scan# 332

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 261852

Ion Ratio Lower Upper

73 100

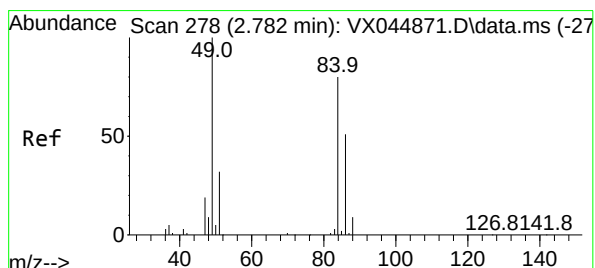
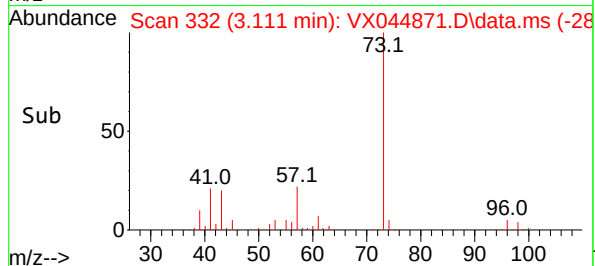
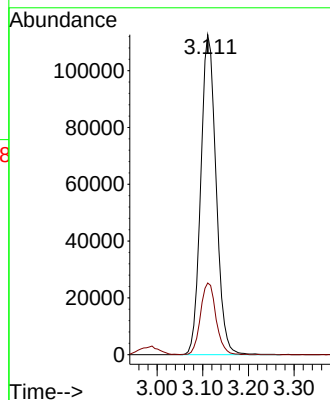
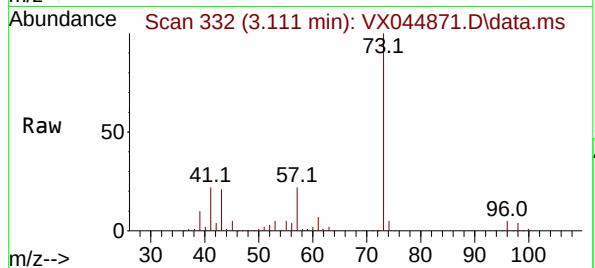
57 22.4 17.9 26.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#20

Methylene Chloride

Concen: 48.808 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Tgt Ion: 84 Resp: 90038

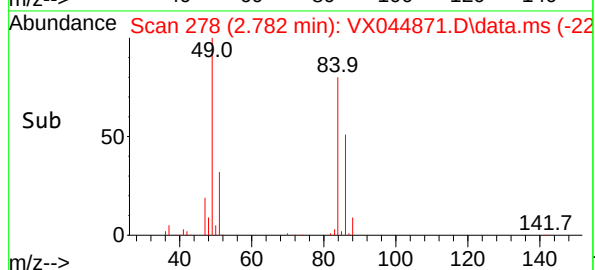
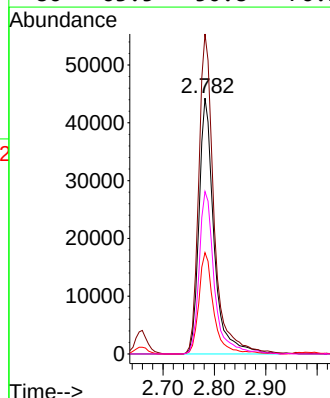
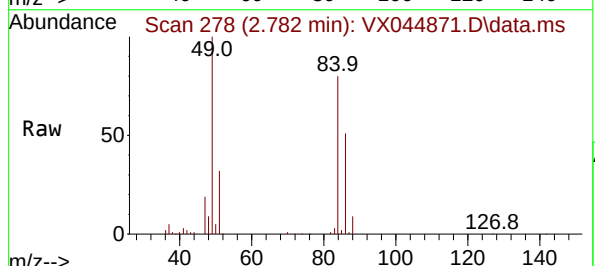
Ion Ratio Lower Upper

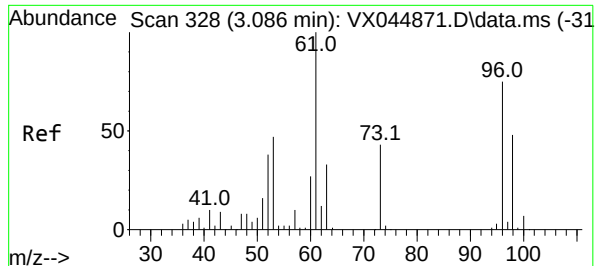
84 100

49 125.1 100.1 150.1

51 39.6 31.7 47.5

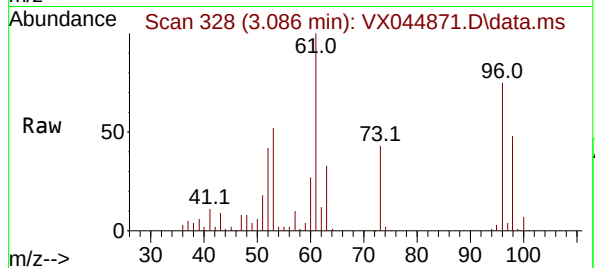
86 63.5 50.8 76.2





#21
trans-1,2-Dichloroethene
Concen: 50.475 ug/l
RT: 3.086 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

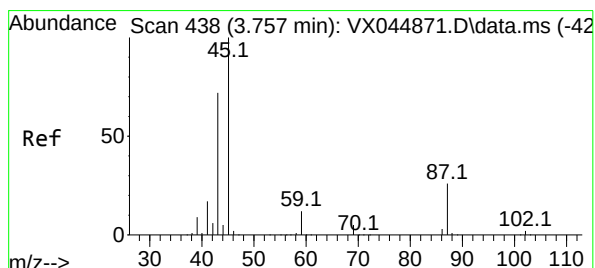
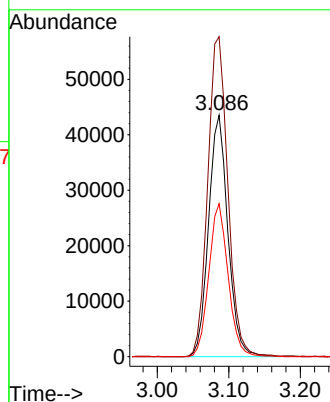
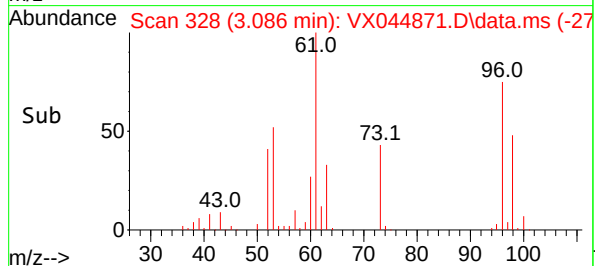
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 96 Resp: 81950
Ion Ratio Lower Upper
96 100
61 132.5 106.0 159.0
98 63.3 50.6 76.0

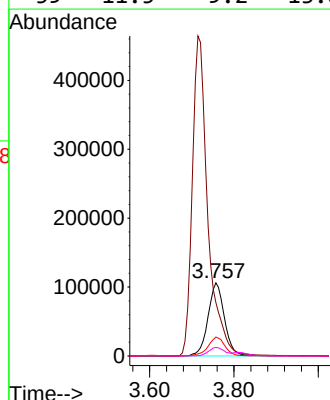
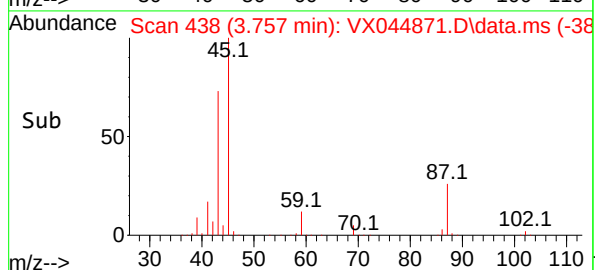
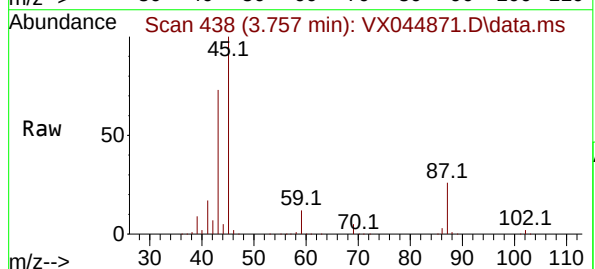
Manual Integrations
APPROVED

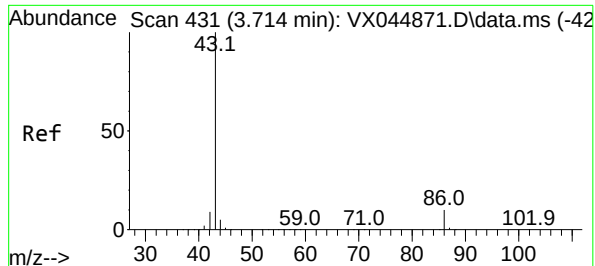
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#22
Diisopropyl ether
Concen: 50.946 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 45 Resp: 287347
Ion Ratio Lower Upper
45 100
43 72.5 58.0 87.0
87 25.9 20.7 31.1
59 11.5 9.2 13.8





#23

Vinyl Acetate

Concen: 258.830 ug/l

RT: 3.714 min Scan# 413

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 119015

Ion Ratio Lower Upper

43 100

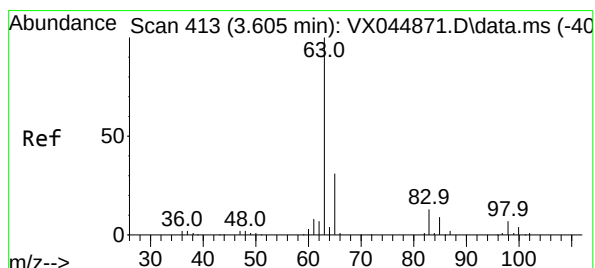
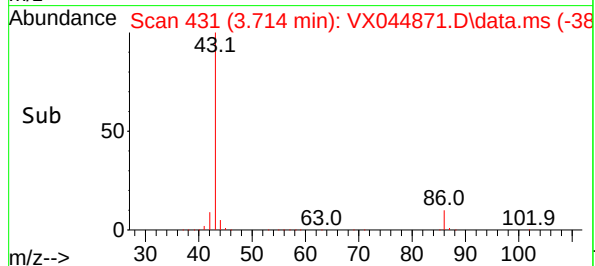
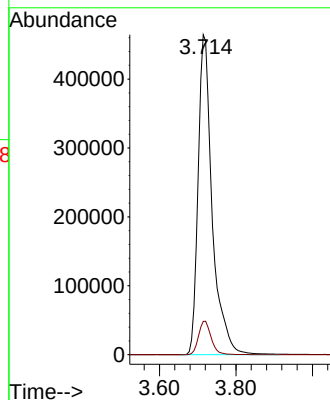
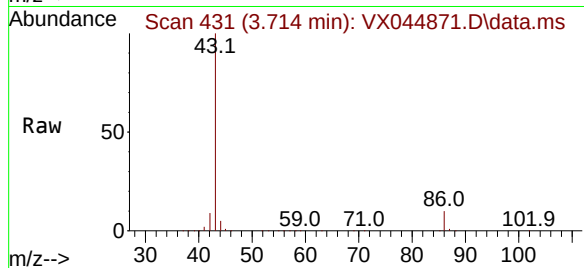
86 10.4 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#24

1,1-Dichloroethane

Concen: 49.749 ug/l

RT: 3.605 min Scan# 413

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

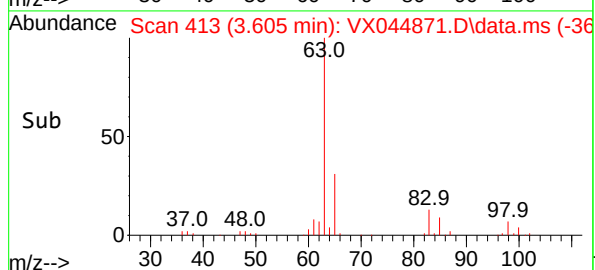
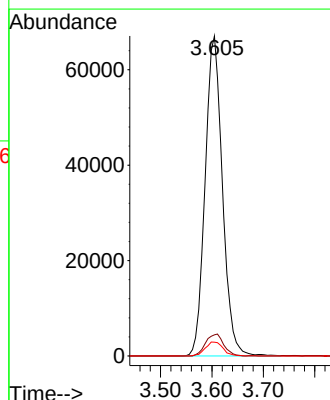
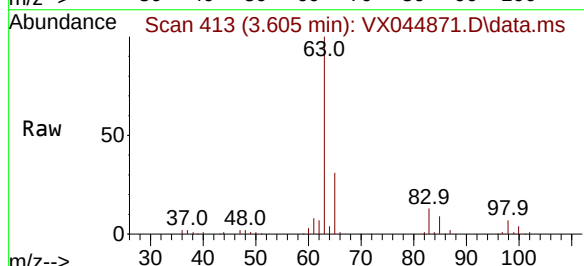
Tgt Ion: 63 Resp: 157003

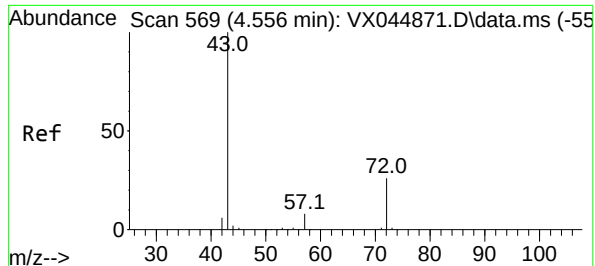
Ion Ratio Lower Upper

63 100

98 6.6 3.3 9.9

100 4.3 2.1 6.5





#25

2-Butanone

Concen: 264.528 ug/l

RT: 4.556 min Scan# 569

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 323510

Ion Ratio Lower Upper

43 100

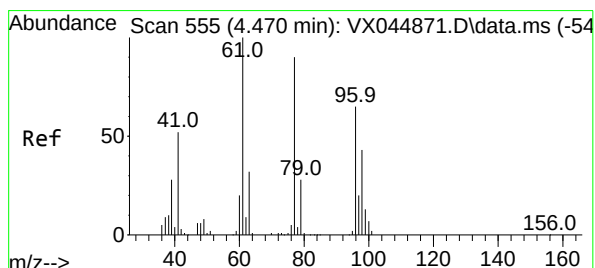
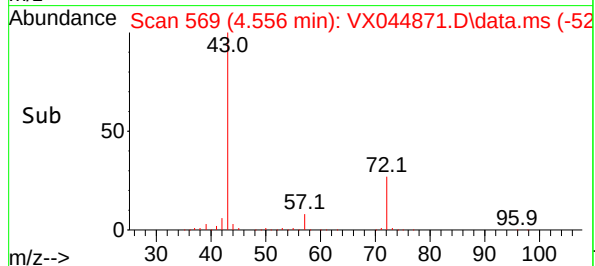
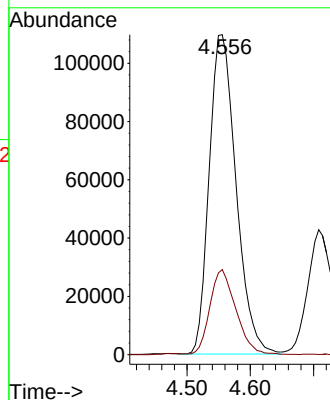
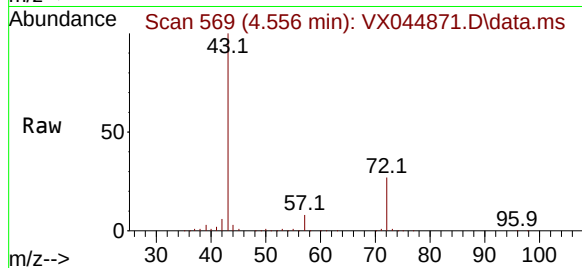
72 26.5 21.2 31.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#26

2,2-Dichloropropane

Concen: 48.707 ug/l

RT: 4.470 min Scan# 555

Delta R.T. 0.000 min

Lab File: VX044871.D

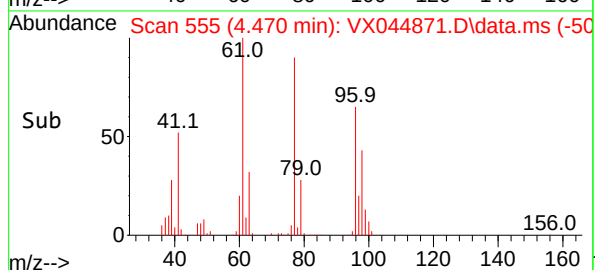
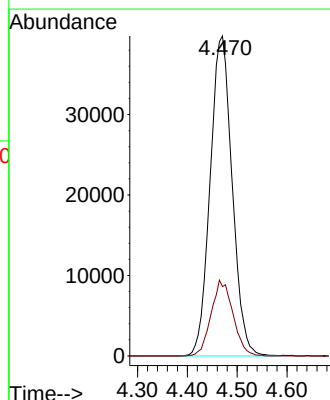
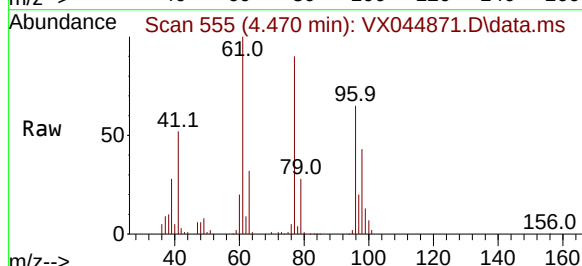
Acq: 10 Feb 2025 11:34

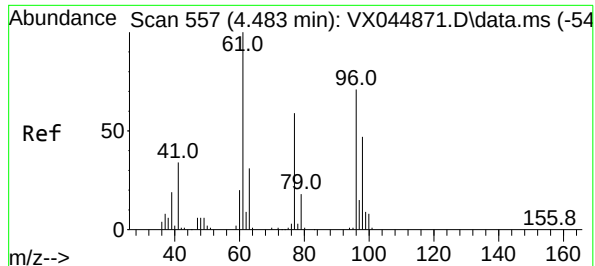
Tgt Ion: 77 Resp: 121901

Ion Ratio Lower Upper

77 100

97 23.5 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 49.721 ug/l

RT: 4.483 min Scan# 557

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

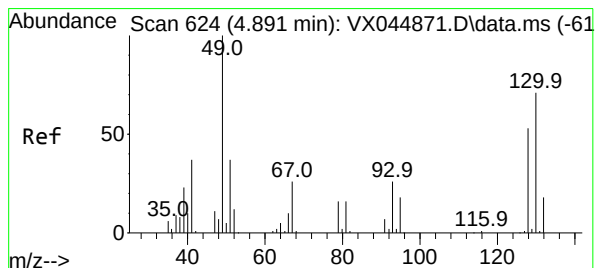
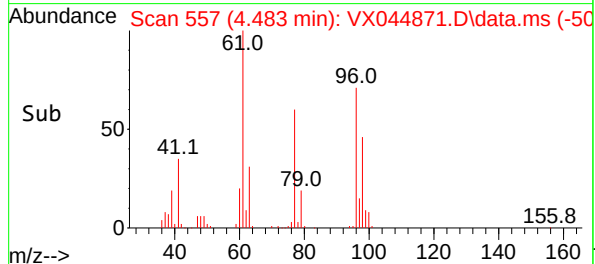
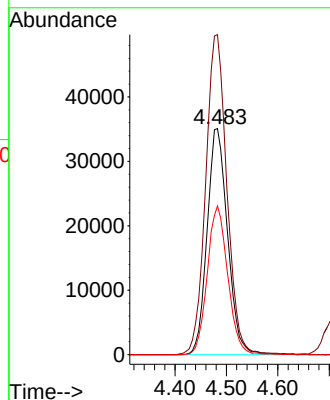
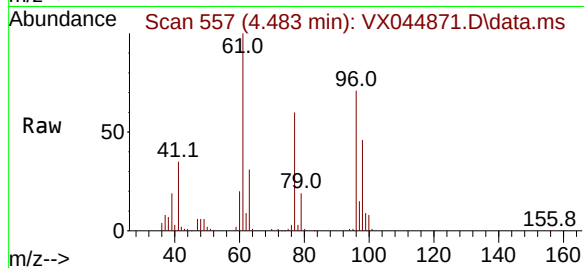
Tgt Ion: 96	Resp: 9696
Ion Ratio	Lower Upper
96 100	
61 147.0	0.0 294.0
98 65.6	0.0 131.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#28

Bromochloromethane

Concen: 49.258 ug/l

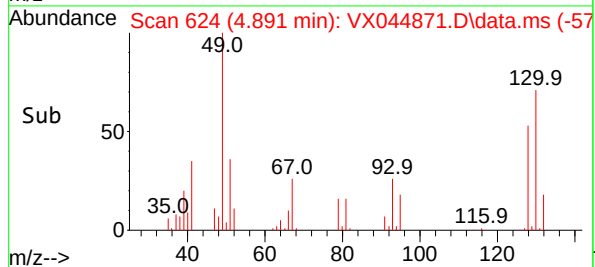
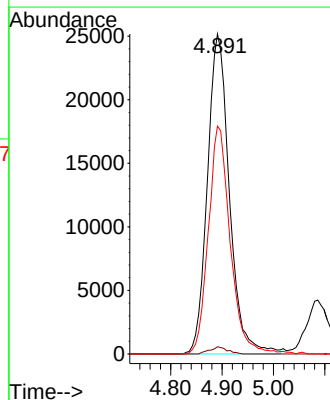
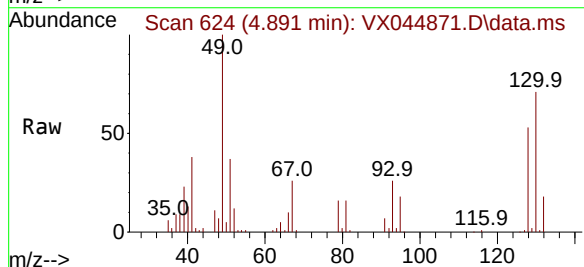
RT: 4.891 min Scan# 624

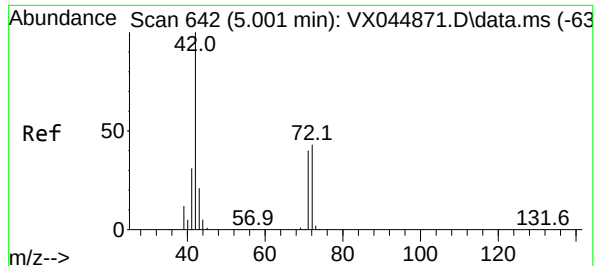
Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Tgt Ion: 49	Resp: 74707
Ion Ratio	Lower Upper
49 100	
129 1.8	0.0 3.6
130 70.9	56.7 85.1





#29

Tetrahydrofuran

Concen: 259.105 ug/l

RT: 5.001 min Scan# 642

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 42 Resp: 210414

Ion Ratio Lower Upper

42 100

72 43.7 35.0 52.4

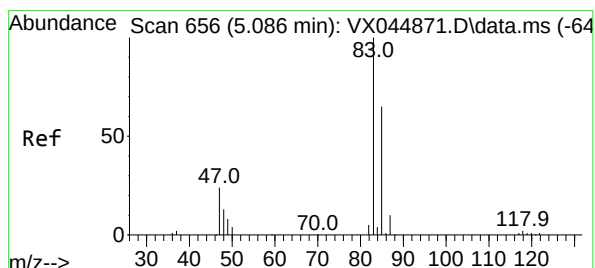
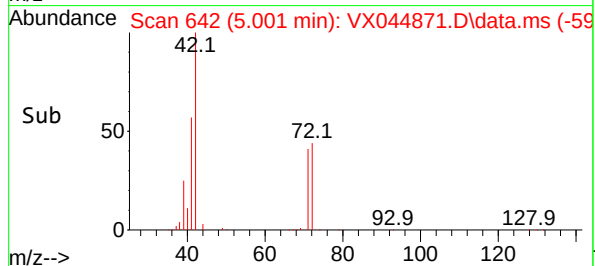
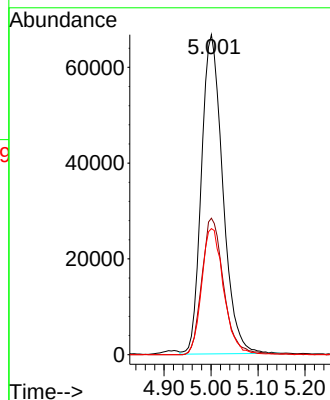
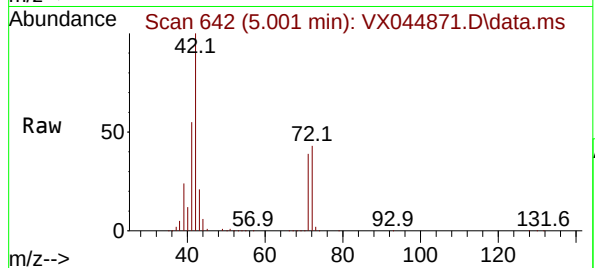
71 40.7 32.6 48.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#30

Chloroform

Concen: 48.874 ug/l

RT: 5.086 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX044871.D

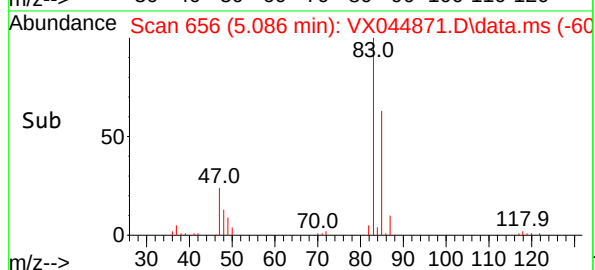
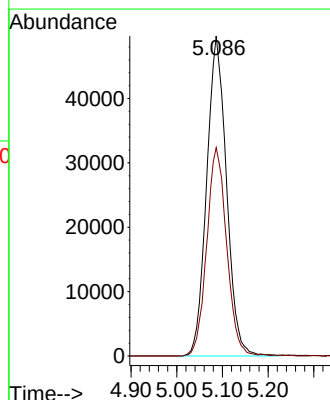
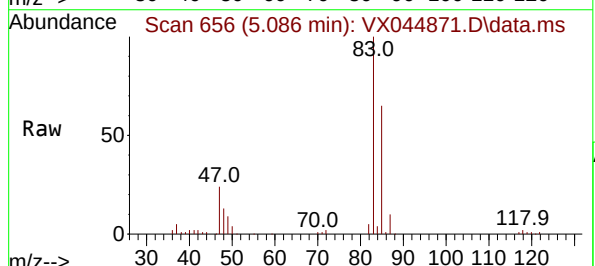
Acq: 10 Feb 2025 11:34

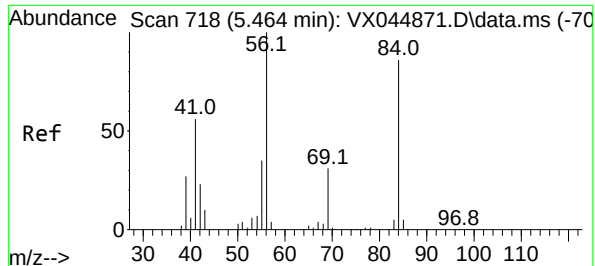
Tgt Ion: 83 Resp: 149581

Ion Ratio Lower Upper

83 100

85 65.1 52.1 78.1





#31

Cyclohexane

Concen: 49.322 ug/l

RT: 5.464 min Scan# 718

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 143500

Ion Ratio Lower Upper

56 100

69 30.5 24.4 36.6

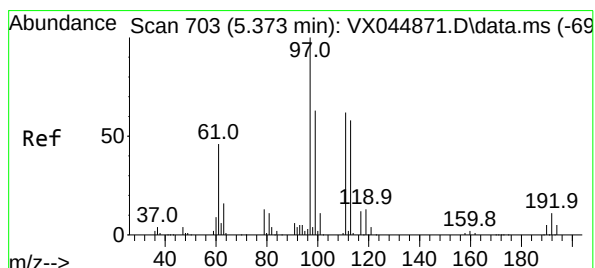
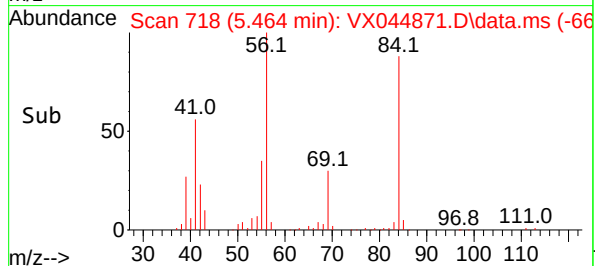
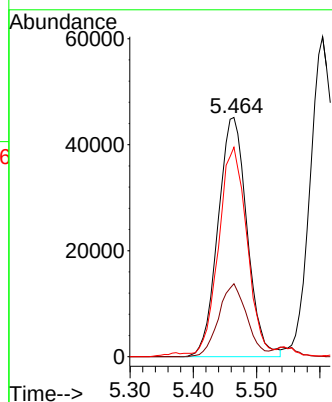
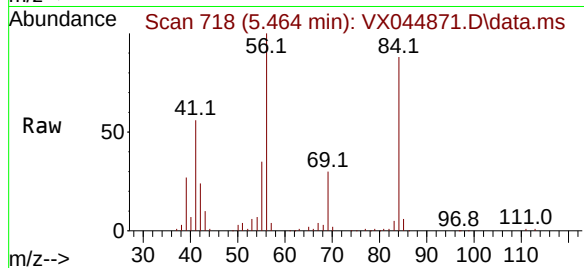
84 86.3 69.0 103.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#32

1,1,1-Trichloroethane

Concen: 49.523 ug/l

RT: 5.373 min Scan# 703

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

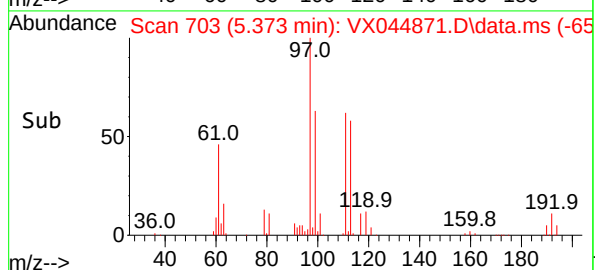
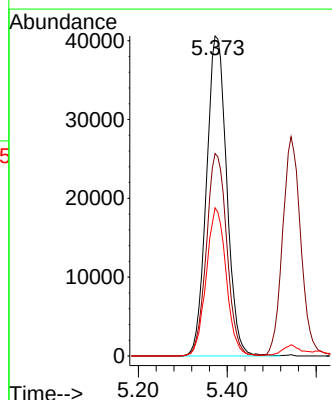
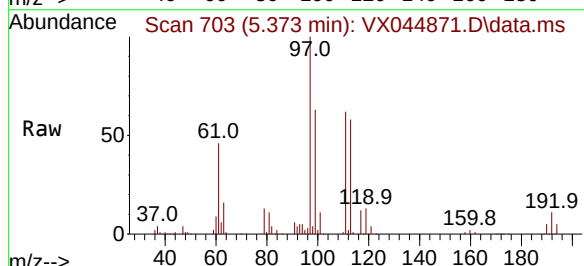
Tgt Ion: 97 Resp: 128561

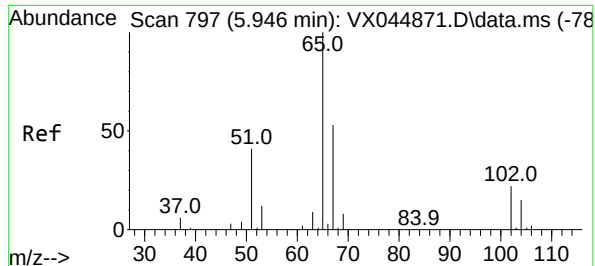
Ion Ratio Lower Upper

97 100

99 63.8 51.0 76.6

61 45.8 36.6 55.0





#33

1,2-Dichloroethane-d4

Concen: 49.424 ug/l

RT: 5.946 min Scan# 797

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 9259

Ion Ratio Lower Upper

65 100

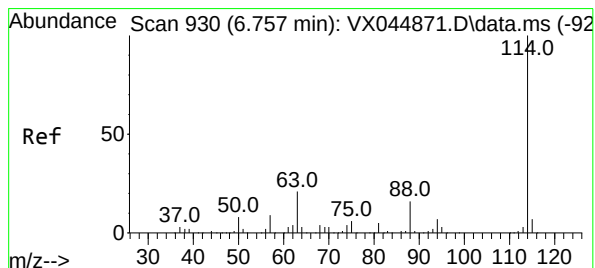
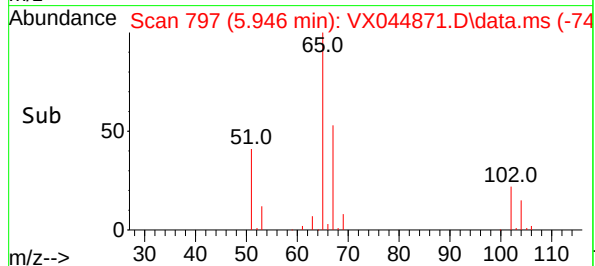
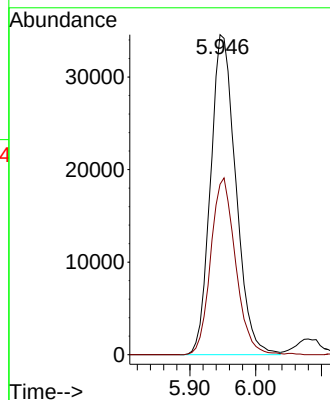
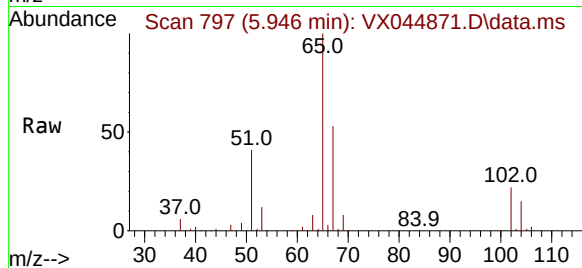
67 54.1 0.0 108.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

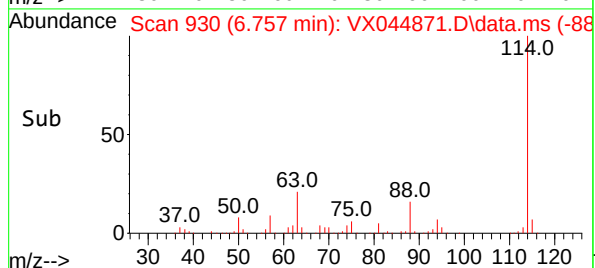
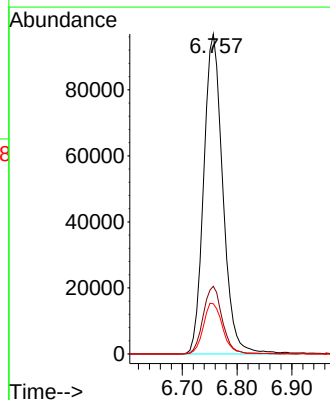
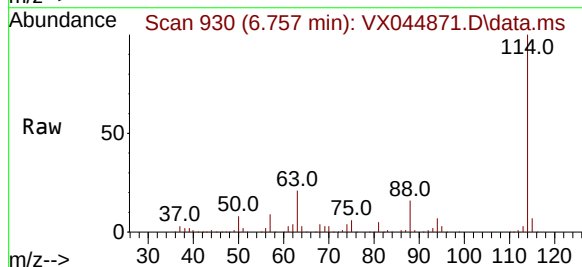
Tgt Ion:114 Resp: 233736

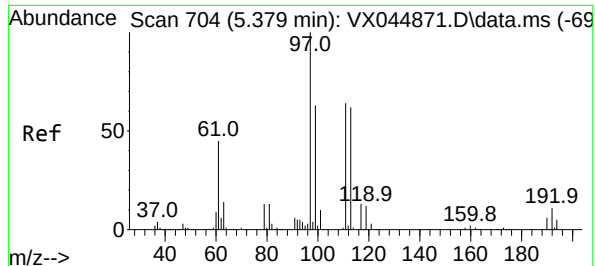
Ion Ratio Lower Upper

114 100

63 21.2 0.0 42.4

88 15.7 0.0 31.4





#35

Dibromofluoromethane

Concen: 49.291 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

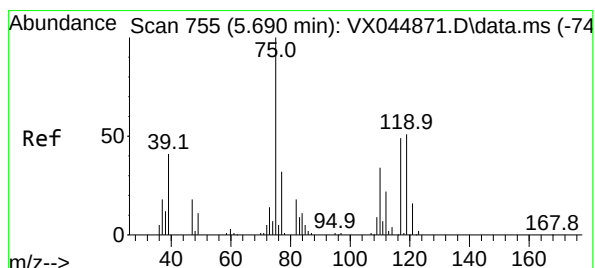
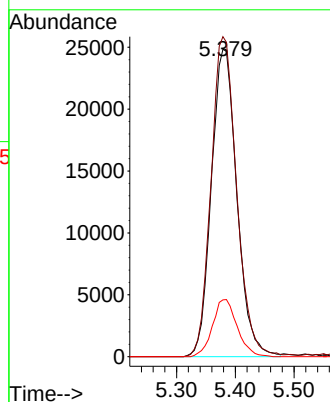
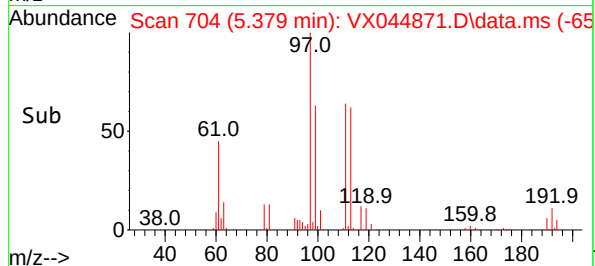
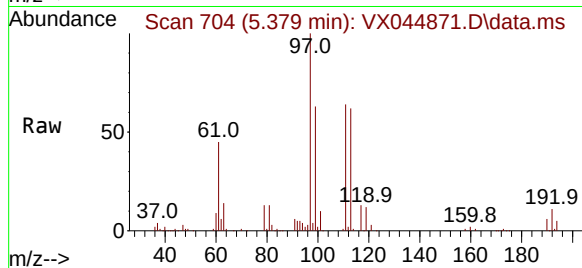
Tgt Ion:	113	Resp:	74900
Ion	Ratio	Lower	Upper
113	100		
111	104.4	83.5	125.3
192	18.0	14.4	21.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#36

1,1-Dichloropropene

Concen: 49.353 ug/l

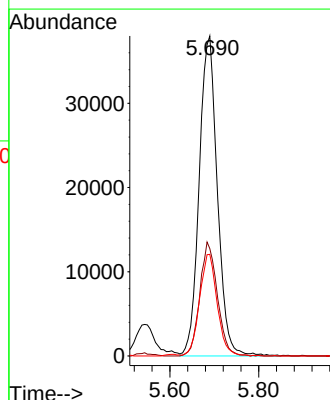
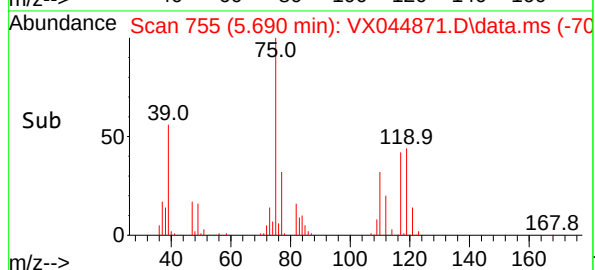
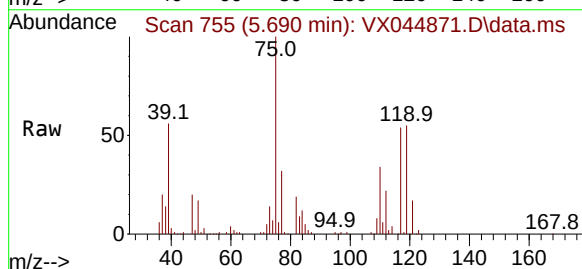
RT: 5.690 min Scan# 755

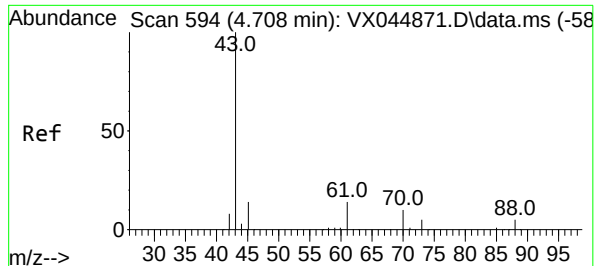
Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Tgt Ion:	75	Resp:	108206
Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.2	51.6
77	30.8	24.6	37.0





#37

Ethyl Acetate

Concen: 50.535 ug/l

RT: 4.708 min Scan# 594

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 123238

Ion Ratio Lower Upper

43 100

61 13.7 11.0 16.4

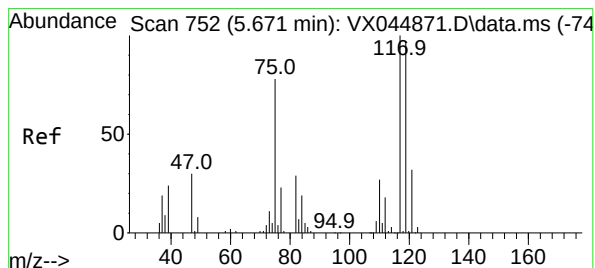
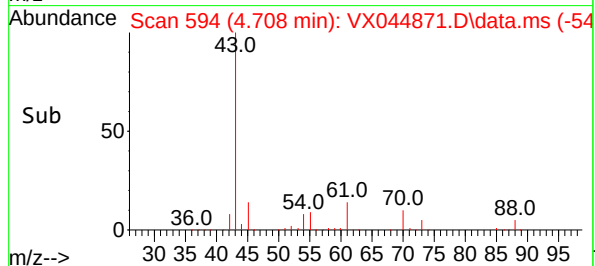
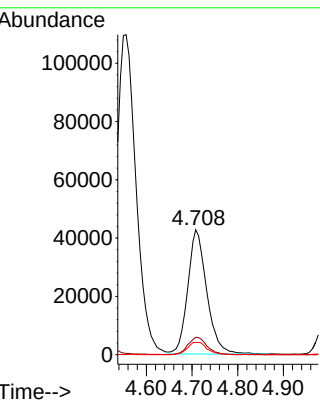
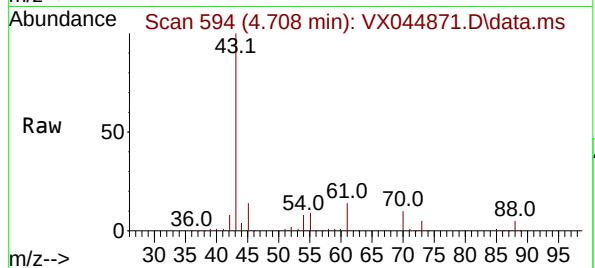
70 10.2 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#38

Carbon Tetrachloride

Concen: 49.277 ug/l

RT: 5.671 min Scan# 752

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

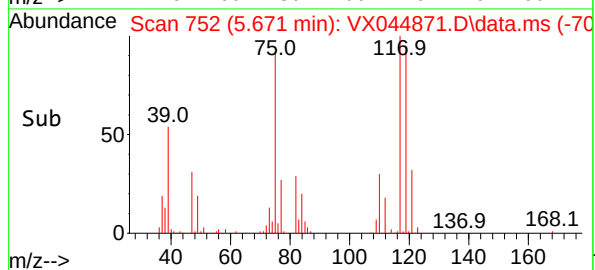
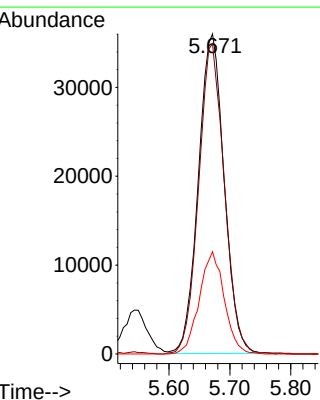
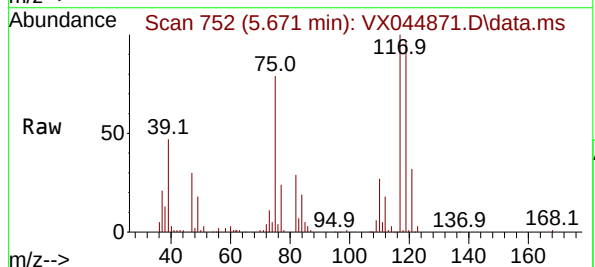
Tgt Ion:117 Resp: 105873

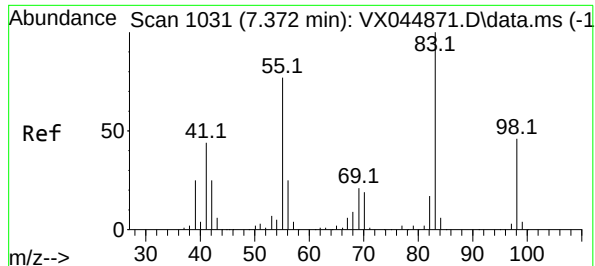
Ion Ratio Lower Upper

117 100

119 96.9 77.5 116.3

121 32.0 25.6 38.4





#39

Methylcyclohexane

Concen: 51.274 ug/l

RT: 7.372 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 145338

Ion Ratio Lower Upper

83 100

55 76.6 61.3 91.9

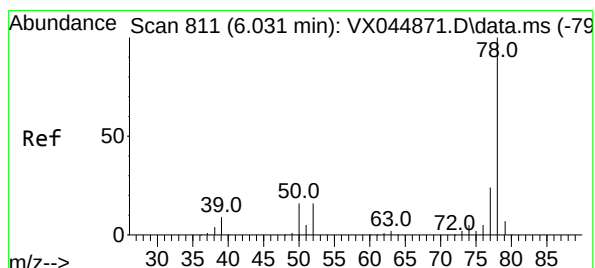
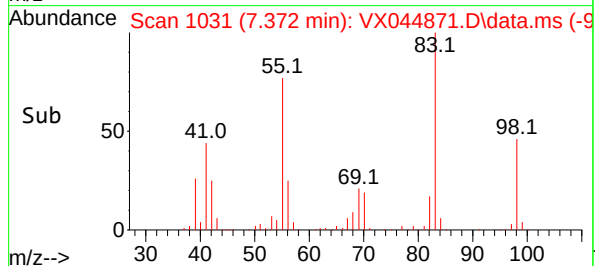
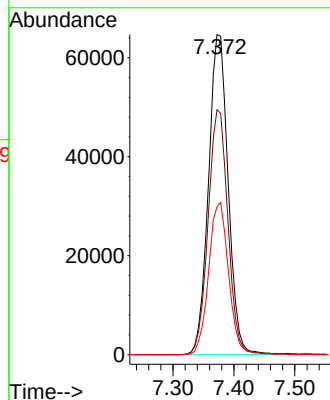
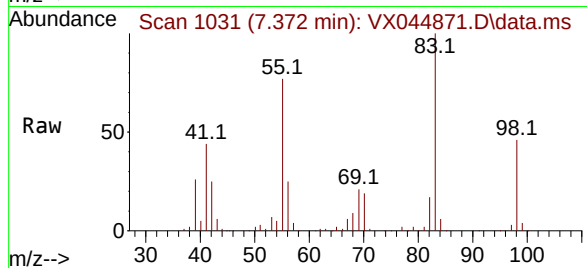
98 46.3 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#40

Benzene

Concen: 50.182 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX044871.D

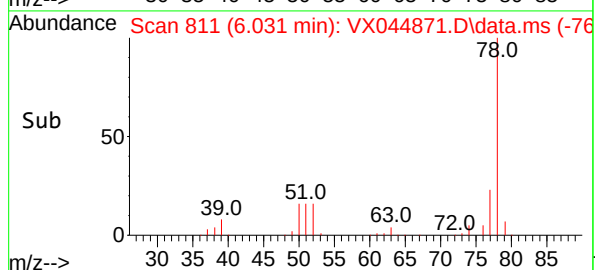
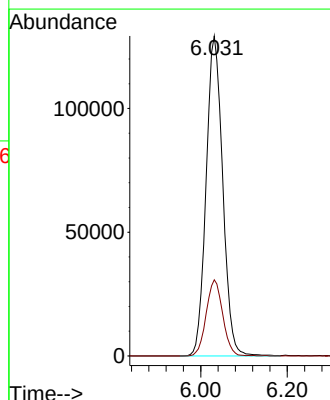
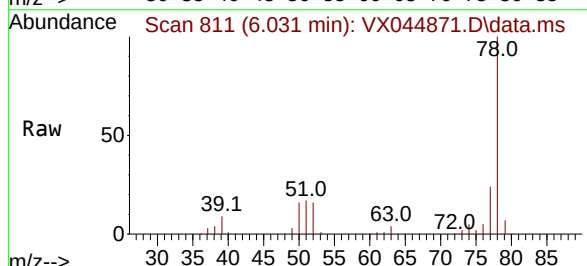
Acq: 10 Feb 2025 11:34

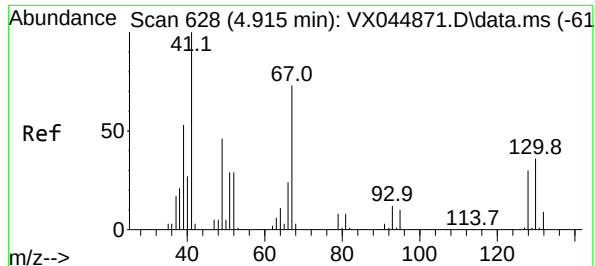
Tgt Ion: 78 Resp: 343557

Ion Ratio Lower Upper

78 100

77 23.8 19.0 28.6





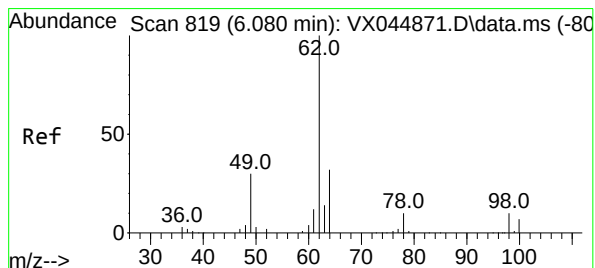
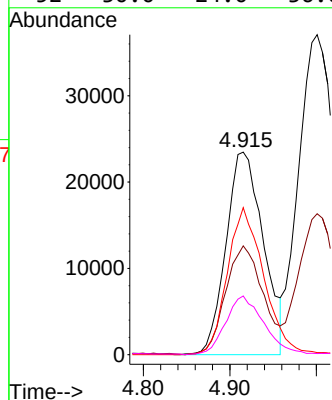
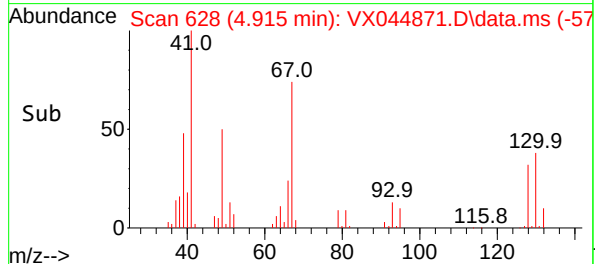
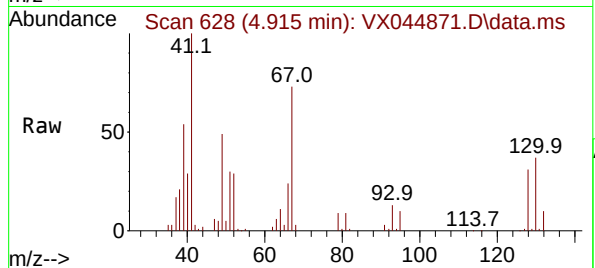
#41
Methacrylonitrile
Concen: 54.065 ug/l
RT: 4.915 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 70572
Ion Ratio Lower Upper
41 100
39 53.9 43.1 64.7
67 71.3 57.0 85.6
52 30.0 24.0 36.0

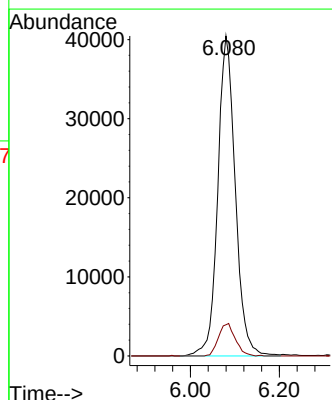
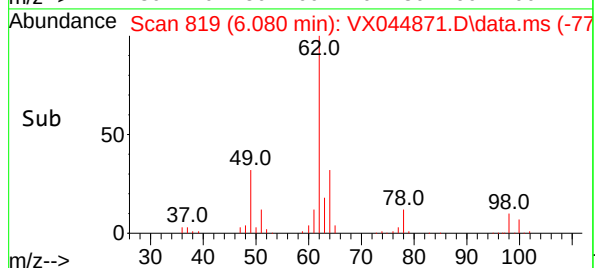
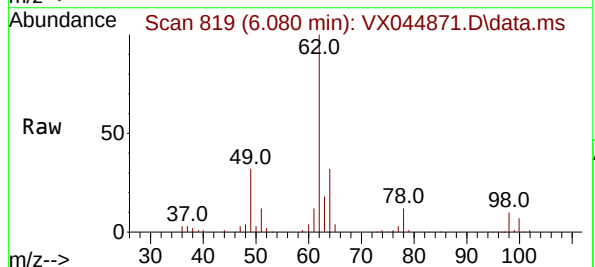
Manual Integrations
APPROVED

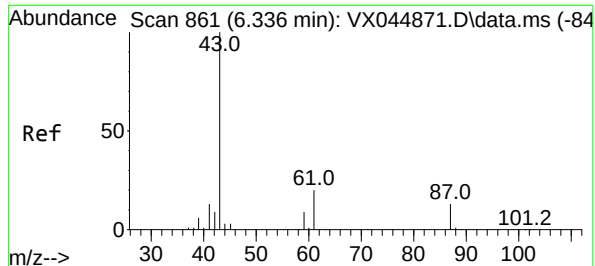
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#42
1,2-Dichloroethane
Concen: 50.573 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 62 Resp: 110347
Ion Ratio Lower Upper
62 100
98 9.7 0.0 19.4





#43

Isopropyl Acetate

Concen: 51.981 ug/l

RT: 6.336 min Scan# 861

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 20470

Ion Ratio Lower Upper

43 100

61 19.8 15.8 23.8

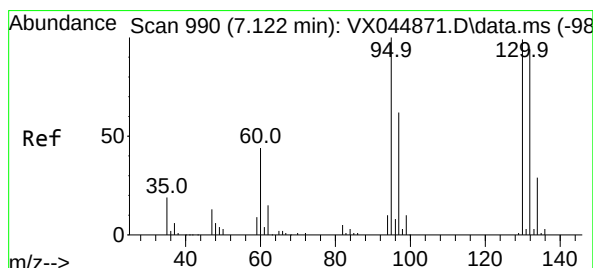
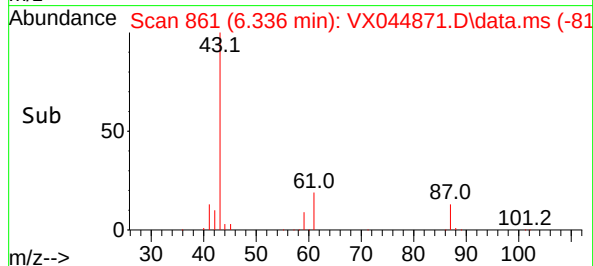
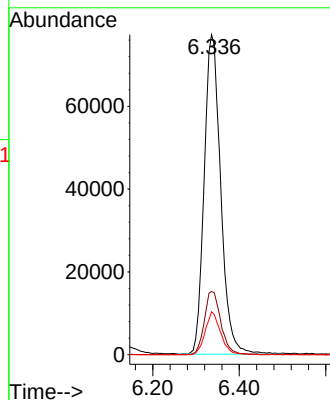
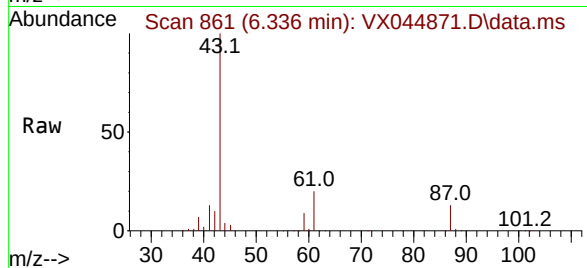
87 12.5 10.0 15.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#44

Trichloroethene

Concen: 50.020 ug/l

RT: 7.122 min Scan# 990

Delta R.T. 0.000 min

Lab File: VX044871.D

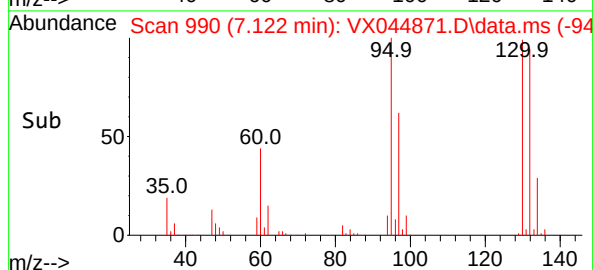
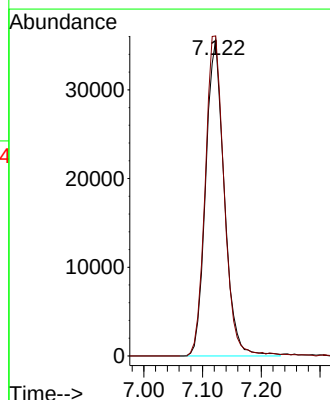
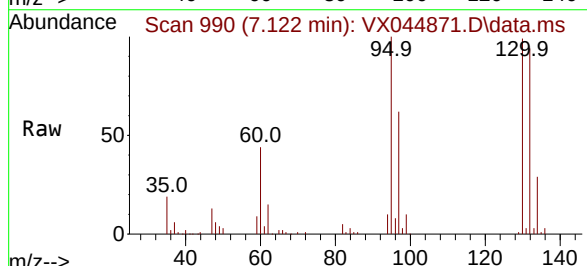
Acq: 10 Feb 2025 11:34

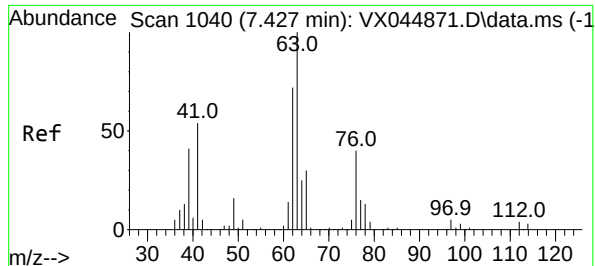
Tgt Ion:130 Resp: 78274

Ion Ratio Lower Upper

130 100

95 101.2 0.0 202.4





#45

1,2-Dichloropropane

Concen: 50.335 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 8573

Ion Ratio Lower Upper

63 100

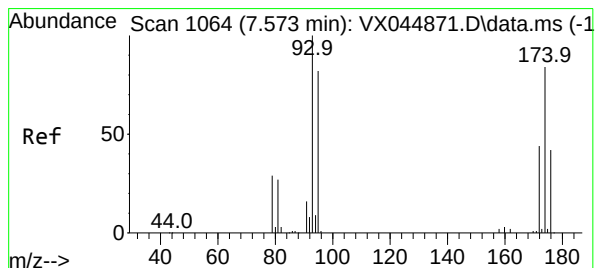
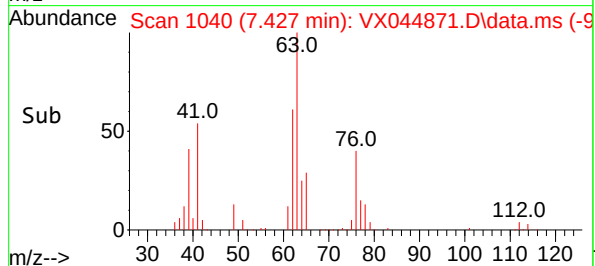
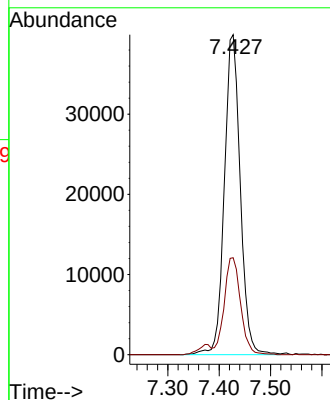
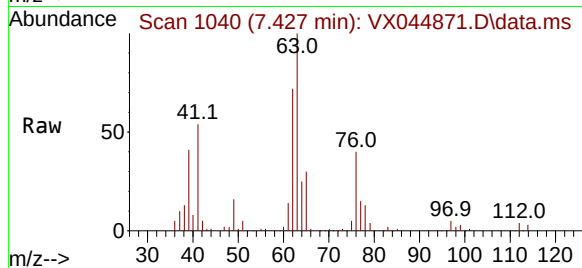
65 30.3 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#46

Dibromomethane

Concen: 50.479 ug/l

RT: 7.573 min Scan# 1064

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

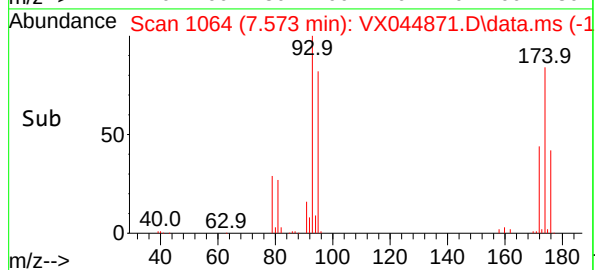
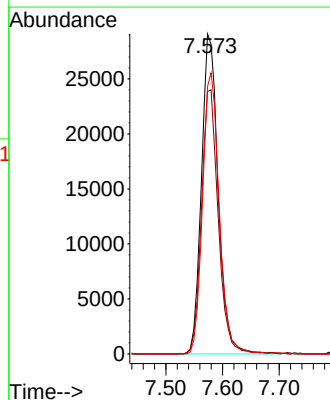
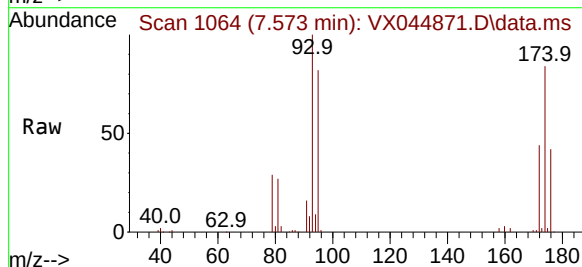
Tgt Ion: 93 Resp: 59625

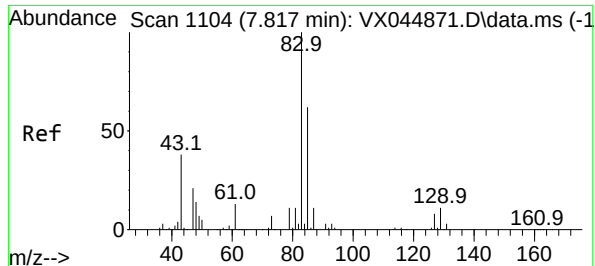
Ion Ratio Lower Upper

93 100

95 82.8 66.2 99.4

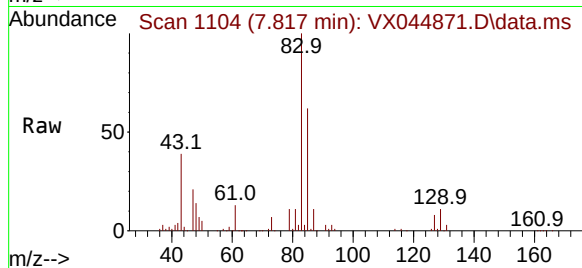
174 87.4 69.9 104.9





#47
Bromodichloromethane
Concen: 51.108 ug/l
RT: 7.817 min Scan# 1104
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

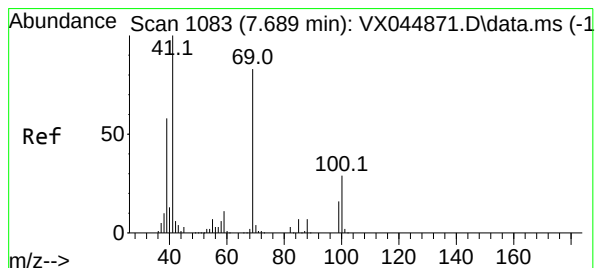
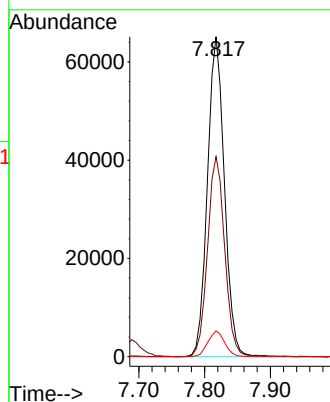
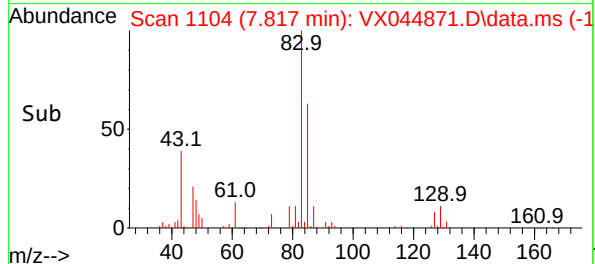
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 83 Resp: 116892
Ion Ratio Lower Upper
83 100
85 62.5 50.0 75.0
127 8.0 6.4 9.6

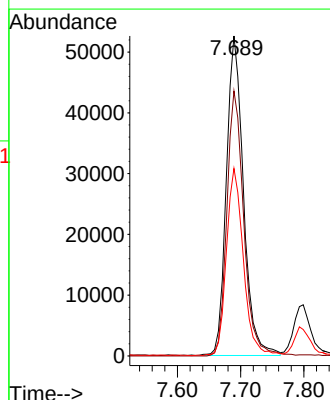
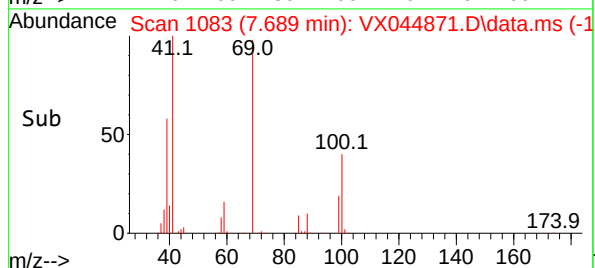
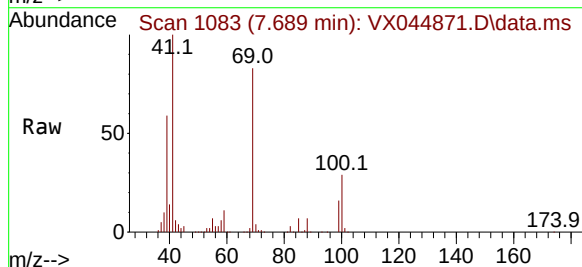
Manual Integrations
APPROVED

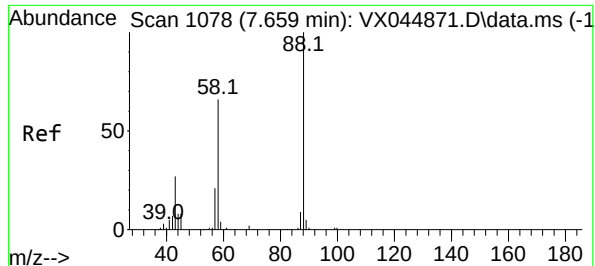
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#48
Methyl methacrylate
Concen: 53.057 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 41 Resp: 98519
Ion Ratio Lower Upper
41 100
69 82.3 65.8 98.8
39 58.0 46.4 69.6





#49

1,4-Dioxane

Concen: 1056.618 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

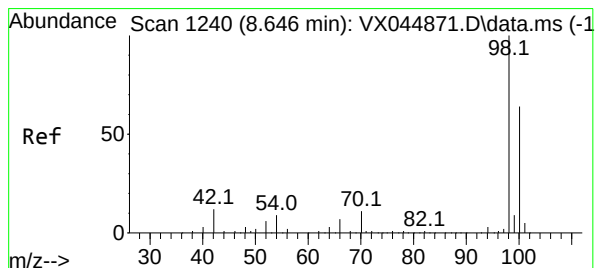
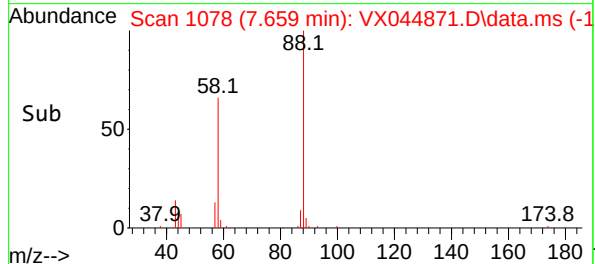
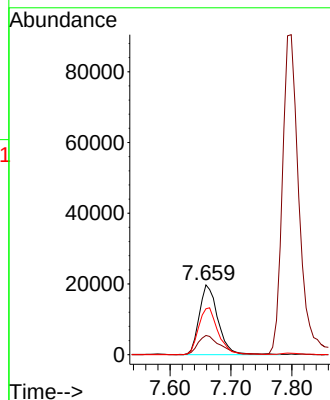
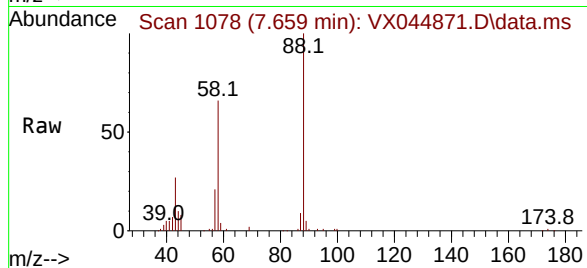
Tgt Ion:	88	Resp:	42094
Ion	Ratio	Lower	Upper
88	100		
43	33.2	26.6	39.8
58	69.9	55.9	83.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#50

Toluene-d8

Concen: 50.392 ug/l

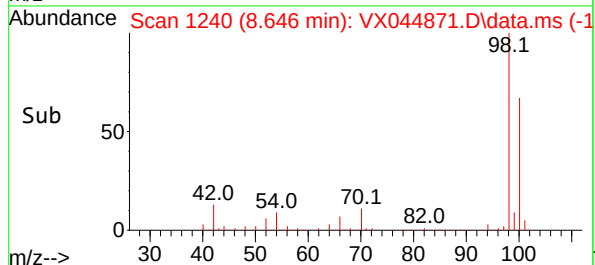
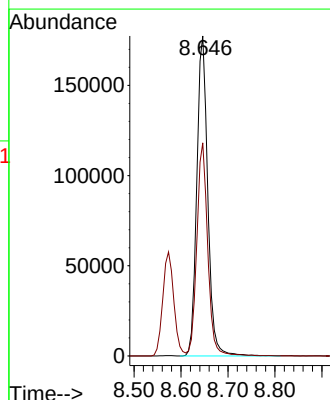
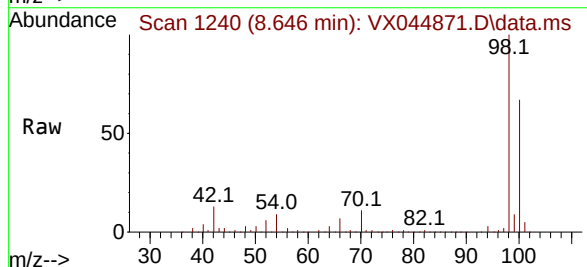
RT: 8.646 min Scan# 1240

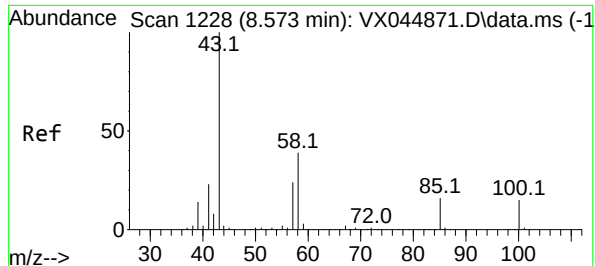
Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Tgt Ion:	98	Resp:	289575
Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.7	79.1





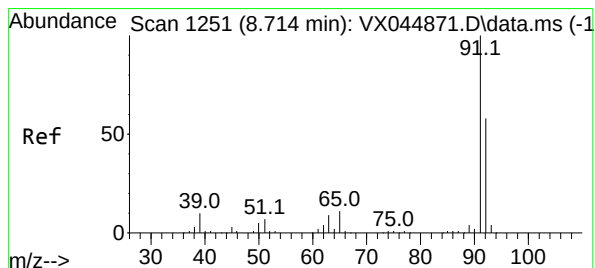
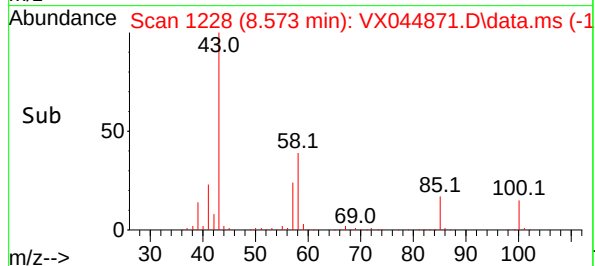
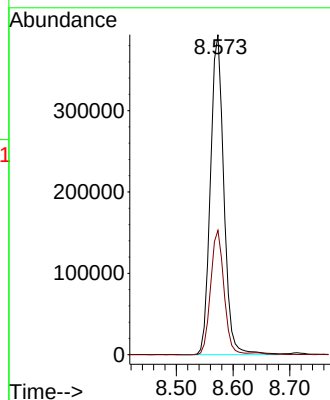
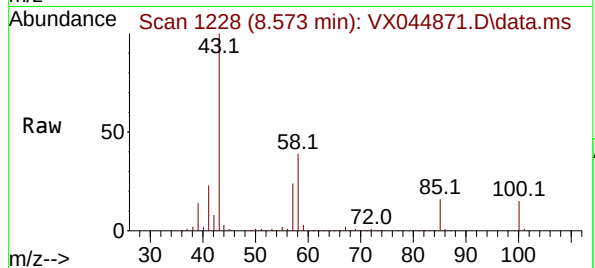
#51
4-Methyl-2-Pentanone
Concen: 270.364 ug/l
RT: 8.573 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 64728
Ion Ratio Lower Upper
43 100
58 38.5 30.8 46.2

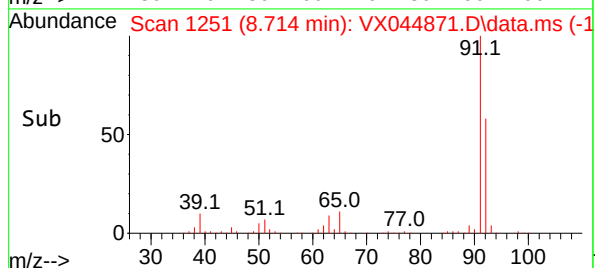
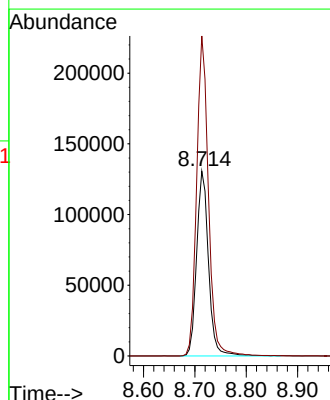
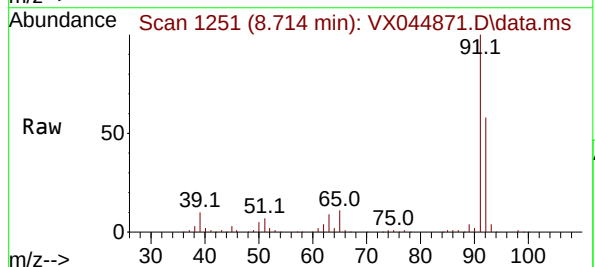
Manual Integrations
APPROVED

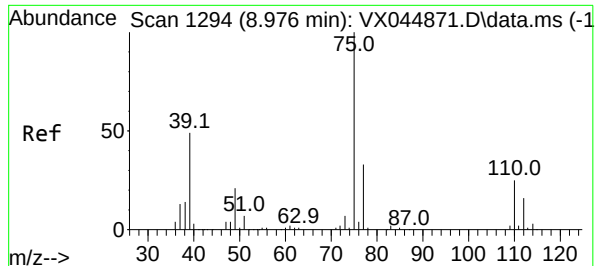
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#52
Toluene
Concen: 51.507 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 92 Resp: 210007
Ion Ratio Lower Upper
92 100
91 171.8 137.4 206.2





#53

t-1,3-Dichloropropene

Concen: 51.902 ug/l

RT: 8.976 min Scan# 1294

Delta R.T. 0.000 min

Lab File: VX044871.D

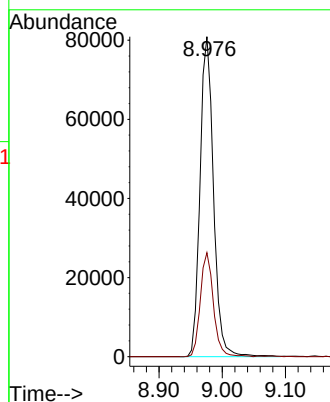
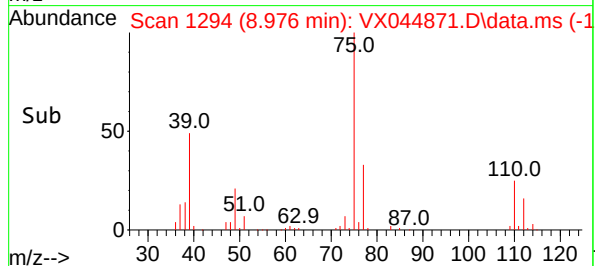
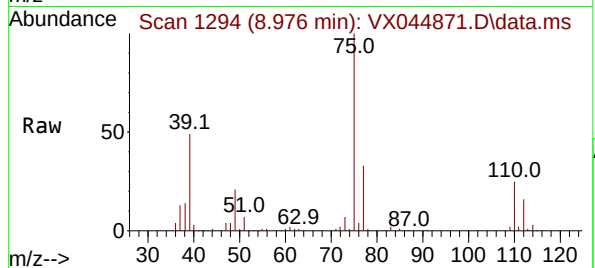
Acq: 10 Feb 2025 11:34

Tgt Ion: 75 Resp: 120125

Ion Ratio Lower Upper

75 100

77 32.5 26.0 39.0



Instrument :

MSVOA_X

ClientSampleId :

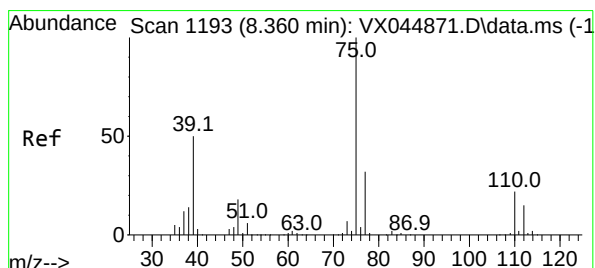
VSTDICCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#54

cis-1,3-Dichloropropene

Concen: 52.223 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

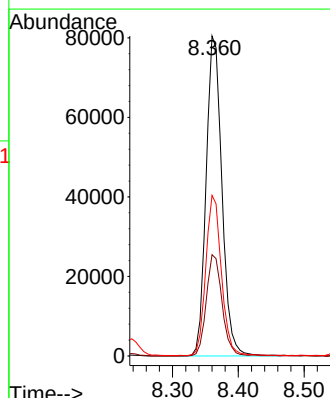
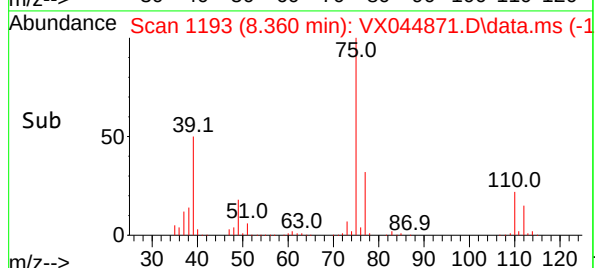
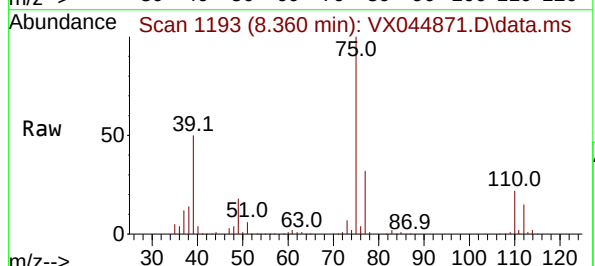
Tgt Ion: 75 Resp: 134763

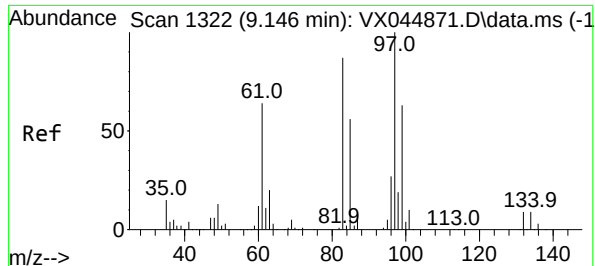
Ion Ratio Lower Upper

75 100

77 31.6 25.3 37.9

39 50.0 40.0 60.0





#55

1,1,2-Trichloroethane

Concen: 50.876 ug/l

RT: 9.146 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Tgt Ion: 97 Resp: 7974

Ion Ratio Lower Upper

97 100

83 87.2 69.8 104.6

85 56.0 44.8 67.2

99 63.3 50.6 76.0

Instrument :

MSVOA_X

ClientSampleId :

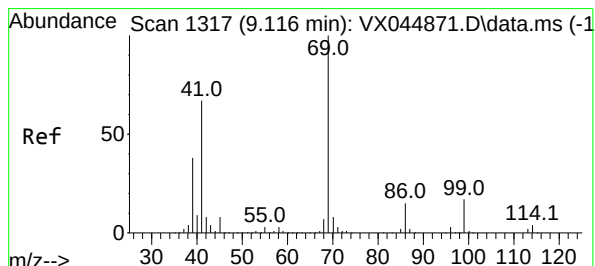
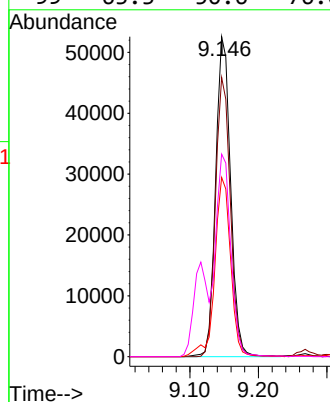
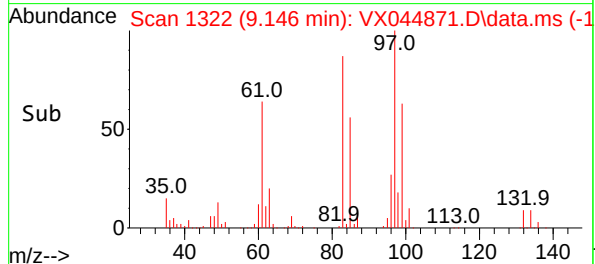
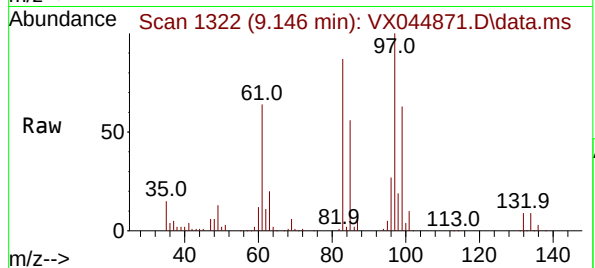
VSTDICCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#56

Ethyl methacrylate

Concen: 53.319 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

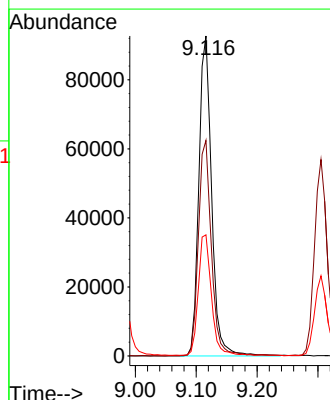
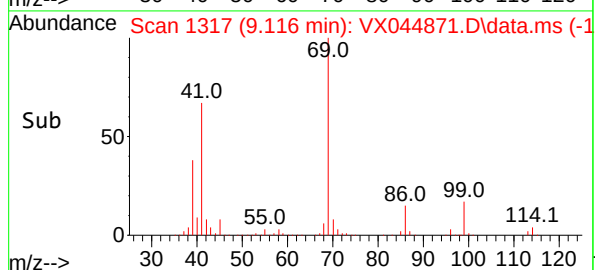
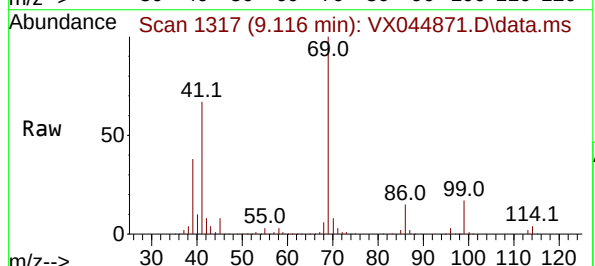
Tgt Ion: 69 Resp: 134975

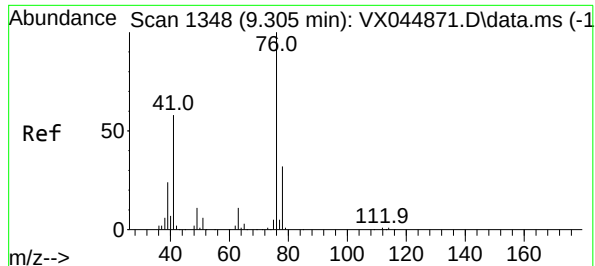
Ion Ratio Lower Upper

69 100

41 69.0 55.2 82.8

39 38.5 30.8 46.2





#57

1,3-Dichloropropane

Concen: 51.537 ug/l

RT: 9.305 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 14133

Ion Ratio Lower Upper

76 100

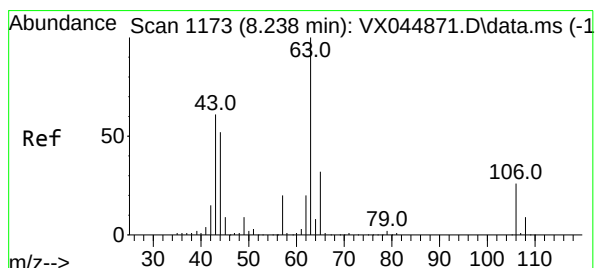
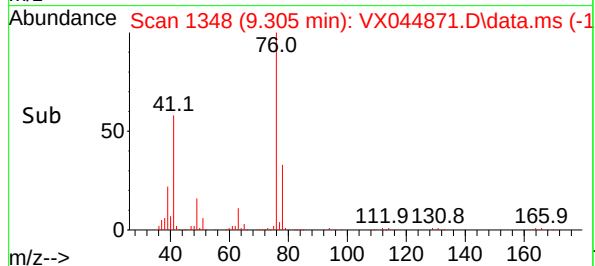
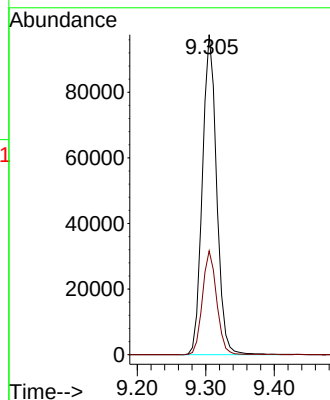
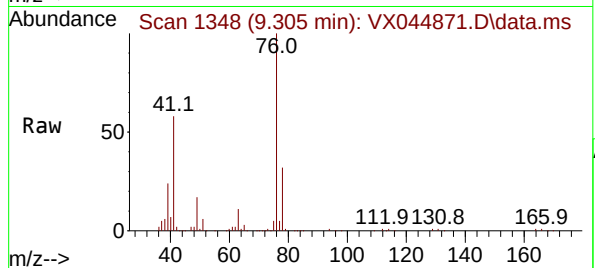
78 32.3 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#58

2-Chloroethyl Vinyl ether

Concen: 270.652 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX044871.D

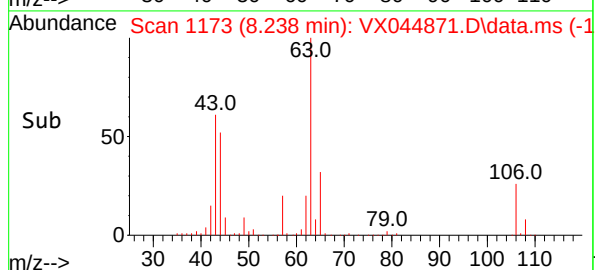
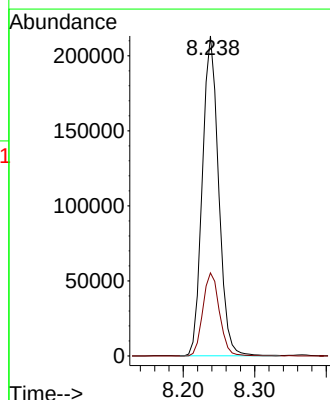
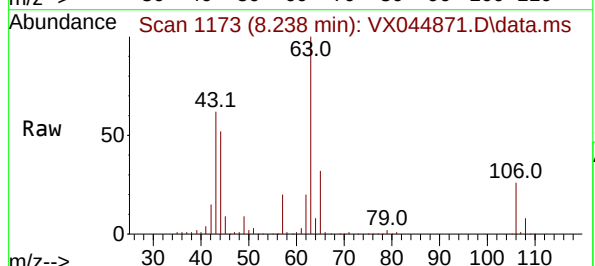
Acq: 10 Feb 2025 11:34

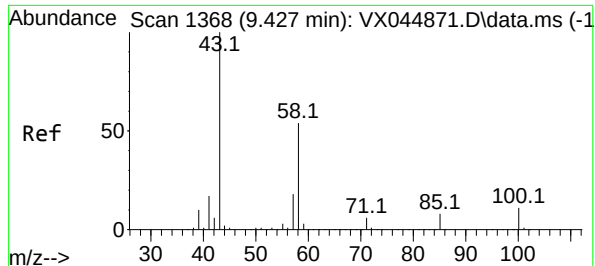
Tgt Ion: 63 Resp: 336412

Ion Ratio Lower Upper

63 100

106 26.6 21.3 31.9





#59

2-Hexanone

Concen: 273.800 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 47230

Ion Ratio Lower Upper

43 100

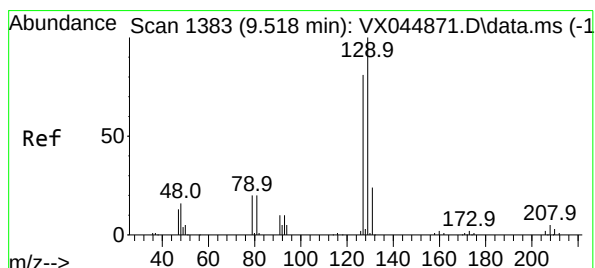
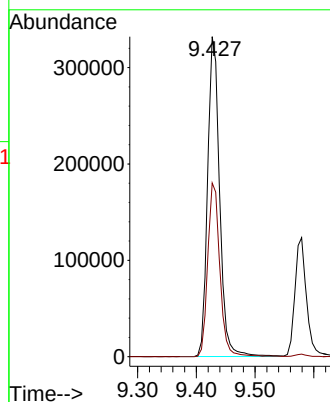
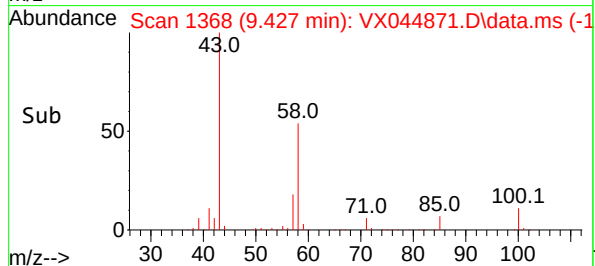
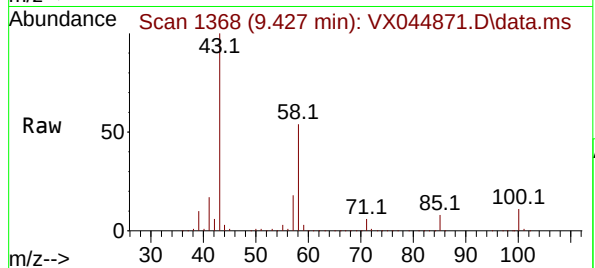
58 54.9 27.5 82.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#60

Dibromochloromethane

Concen: 52.045 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX044871.D

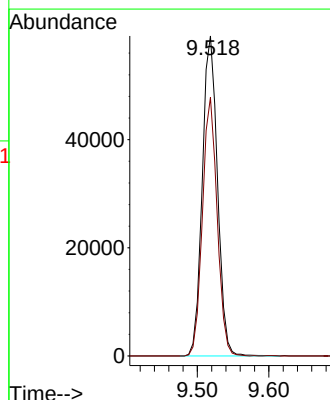
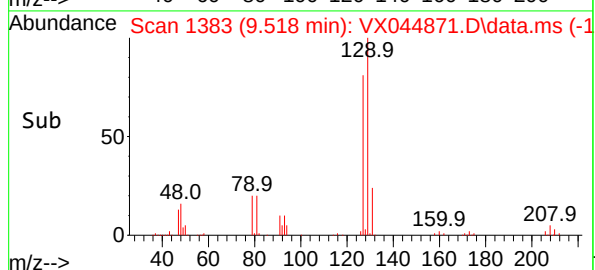
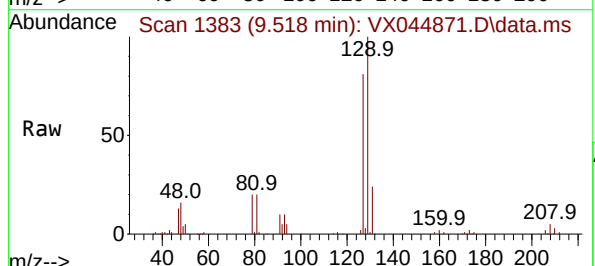
Acq: 10 Feb 2025 11:34

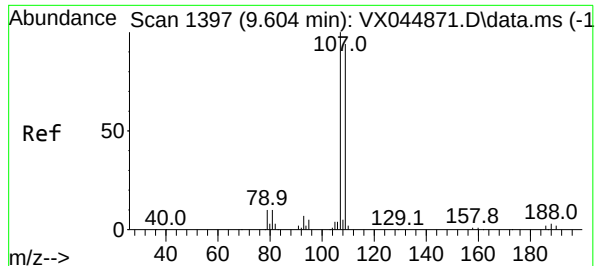
Tgt Ion:129 Resp: 87240

Ion Ratio Lower Upper

129 100

127 78.2 39.1 117.3





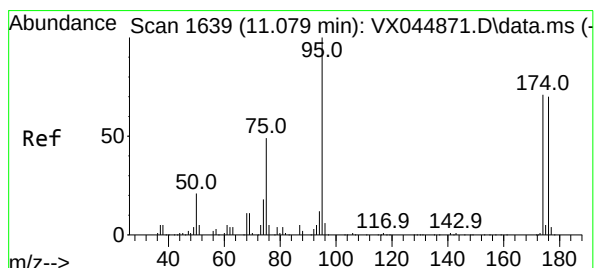
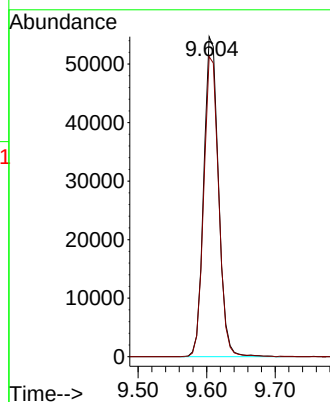
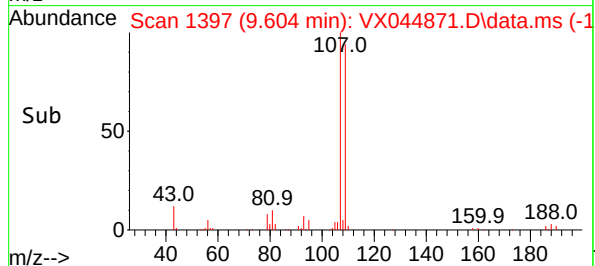
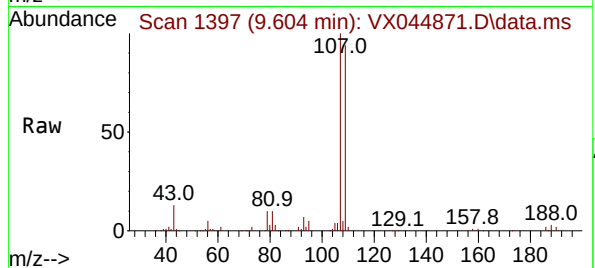
#61
1,2-Dibromoethane
Concen: 51.564 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 81915
Ion Ratio Lower Upper
107 100
109 94.9 75.9 113.9

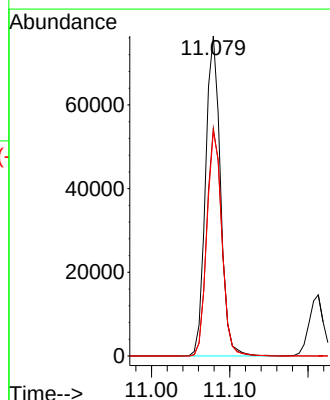
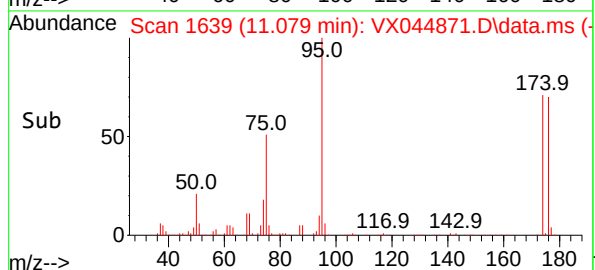
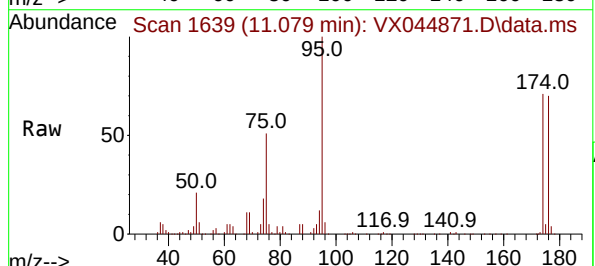
Manual Integrations
APPROVED

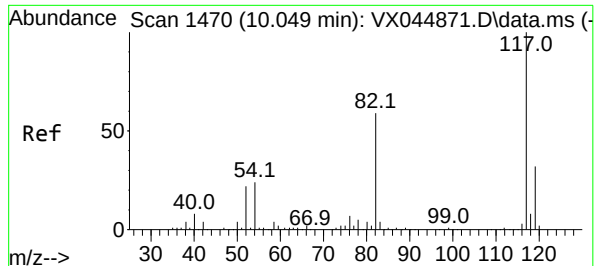
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#62
4-Bromofluorobenzene
Concen: 52.031 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

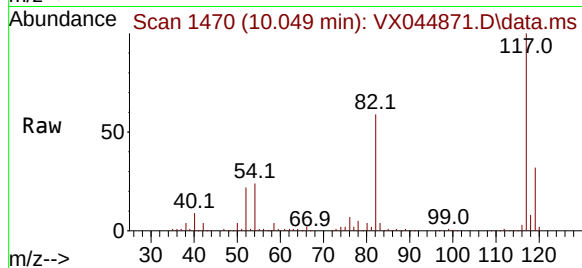
Tgt Ion: 95 Resp: 100798
Ion Ratio Lower Upper
95 100
174 71.3 0.0 142.6
176 70.8 0.0 141.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

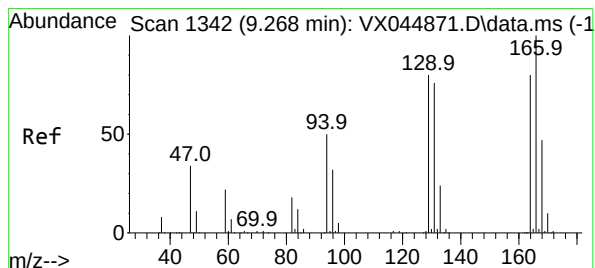
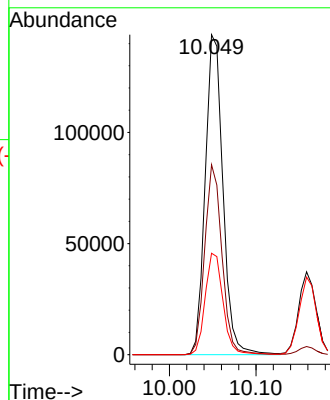
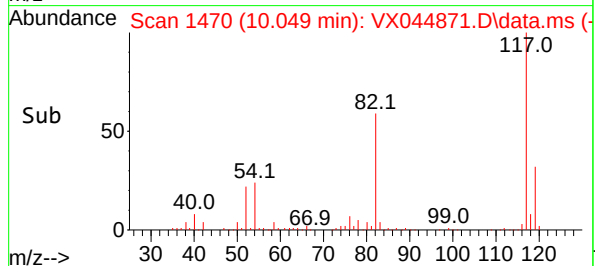
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:117 Resp: 20475
Ion Ratio Lower Upper
117 100
82 59.4 47.5 71.3
119 31.7 25.4 38.0

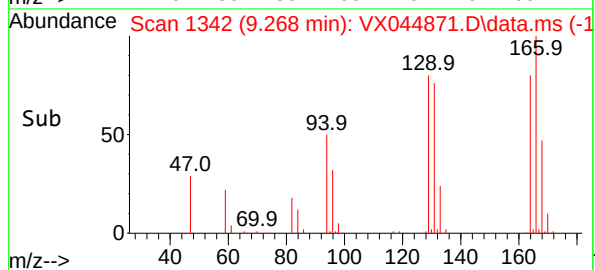
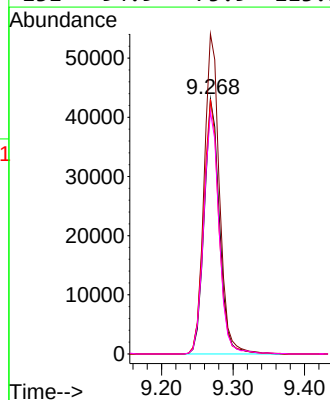
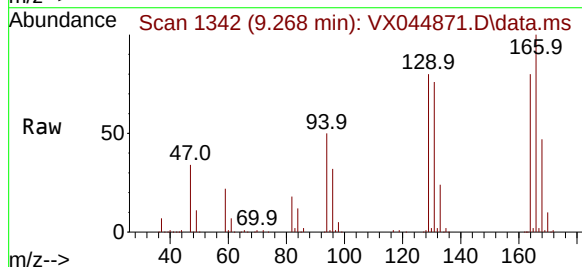
Manual Integrations
APPROVED

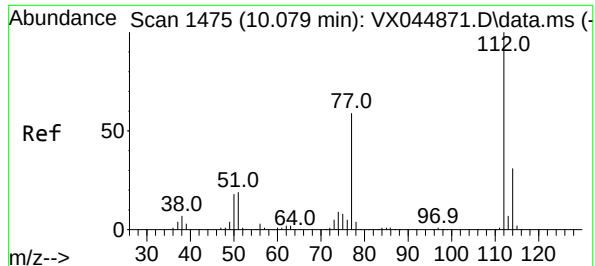
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#64
Tetrachloroethene
Concen: 49.206 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

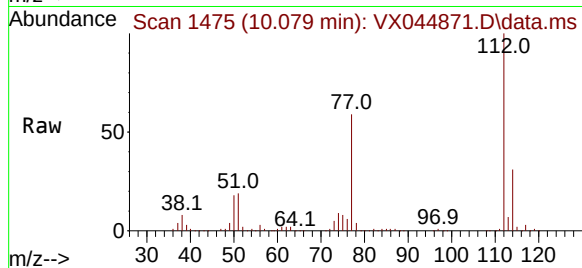
Tgt Ion:164 Resp: 63537
Ion Ratio Lower Upper
164 100
166 125.5 100.4 150.6
129 99.9 79.9 119.9
131 94.9 75.9 113.9





#65
Chlorobenzene
Concen: 51.005 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

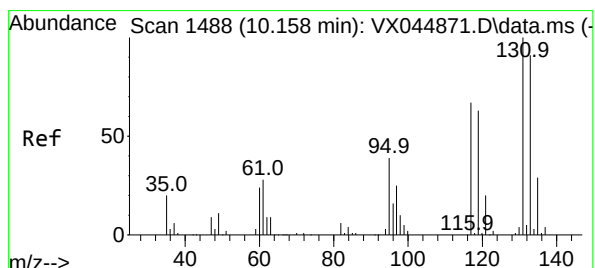
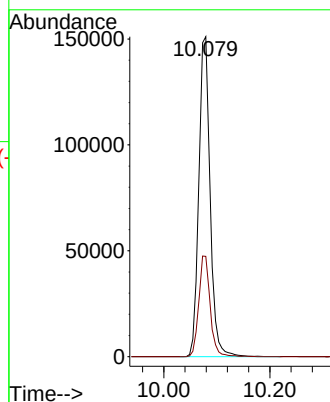
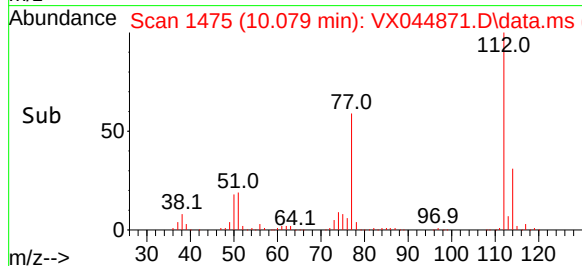
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:112 Resp: 224300
Ion Ratio Lower Upper
112 100
114 31.3 25.0 37.6

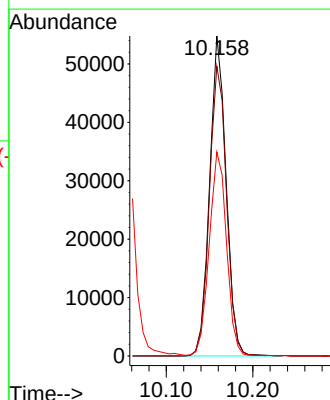
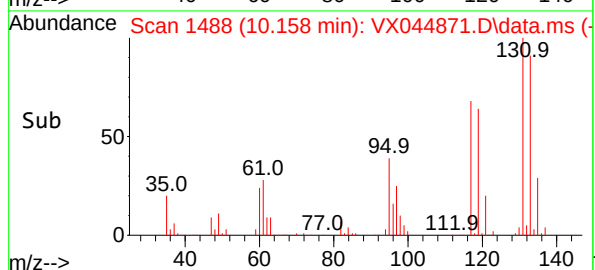
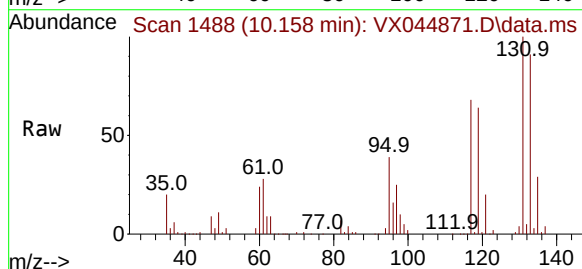
Manual Integrations
APPROVED

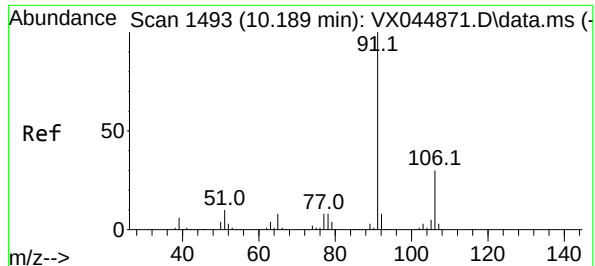
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 51.203 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:131 Resp: 72478
Ion Ratio Lower Upper
131 100
133 94.2 47.1 141.3
119 67.1 33.6 100.6





#67

Ethyl Benzene

Concen: 51.061 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 396269

Ion Ratio Lower Upper

91 100

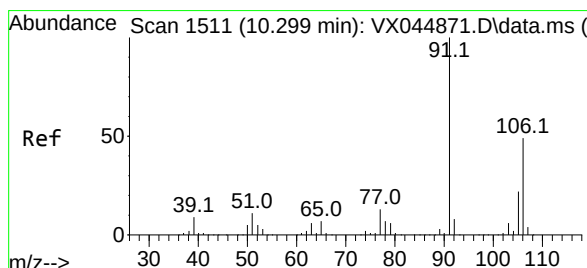
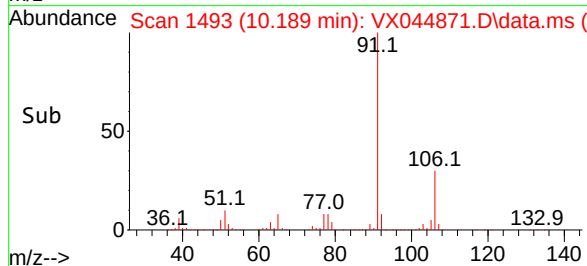
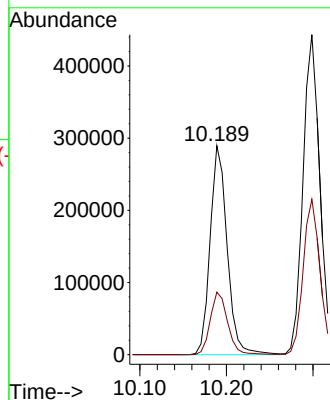
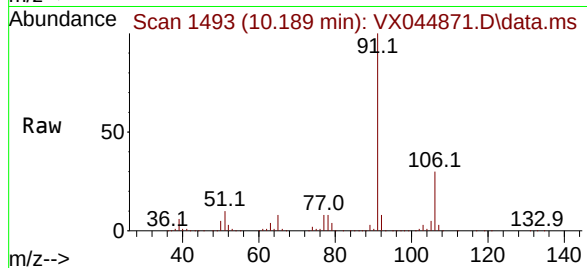
106 29.9 23.9 35.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#68

m/p-Xylenes

Concen: 103.573 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX044871.D

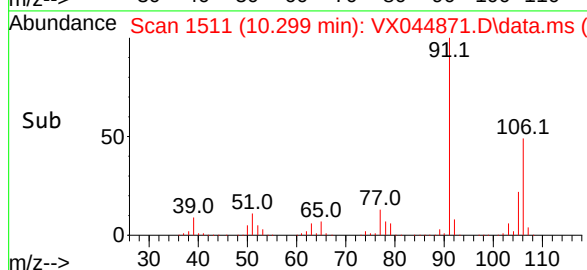
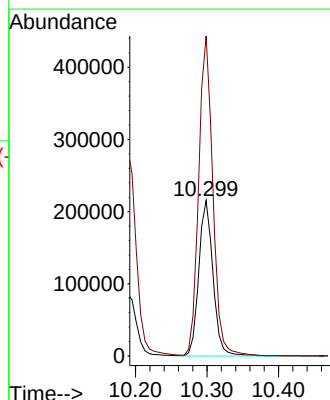
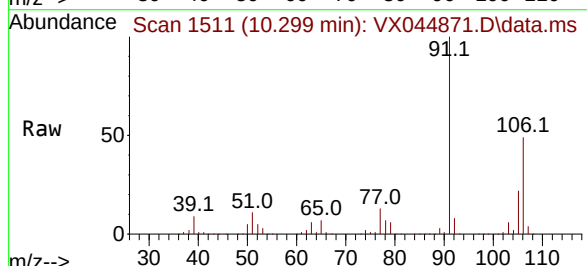
Acq: 10 Feb 2025 11:34

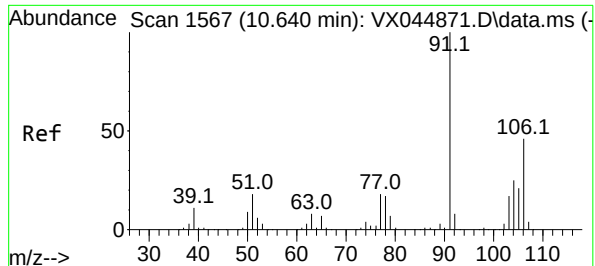
Tgt Ion:106 Resp: 296507

Ion Ratio Lower Upper

106 100

91 205.4 164.3 246.5





#69

o-Xylene

Concen: 50.409 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:106 Resp: 144802

Ion Ratio Lower Upper

106 100

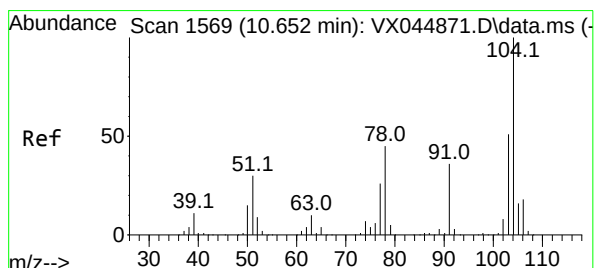
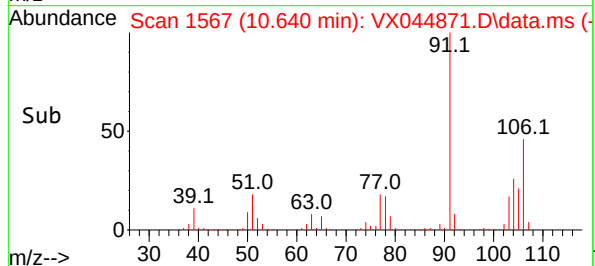
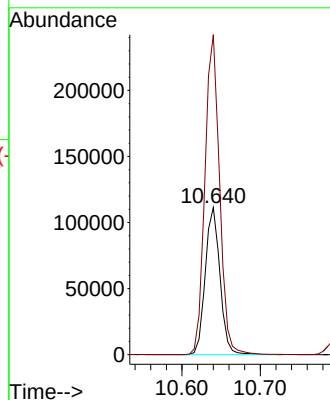
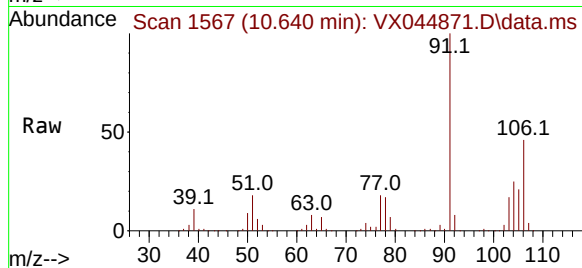
91 217.0 108.5 325.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#70

Styrene

Concen: 53.051 ug/l

RT: 10.652 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

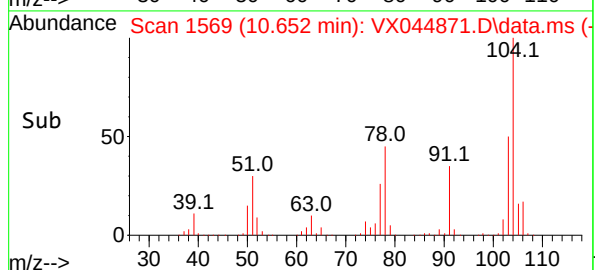
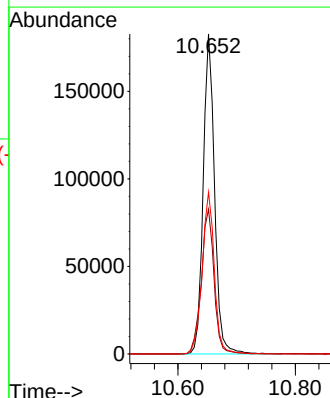
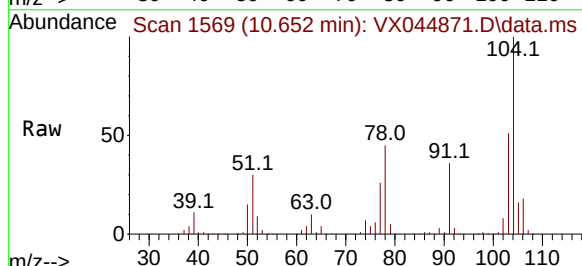
Tgt Ion:104 Resp: 245518

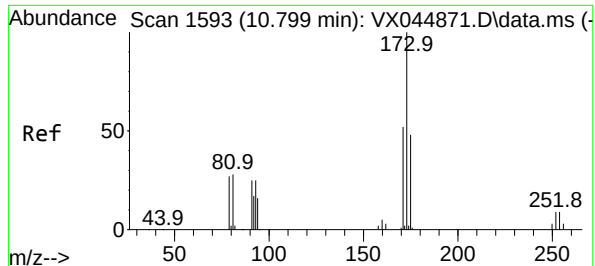
Ion Ratio Lower Upper

104 100

78 50.6 40.5 60.7

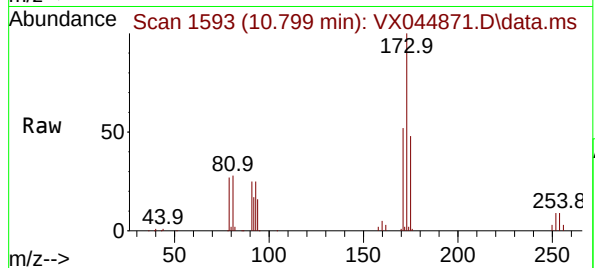
103 54.5 43.6 65.4





#71
Bromoform
Concen: 54.352 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

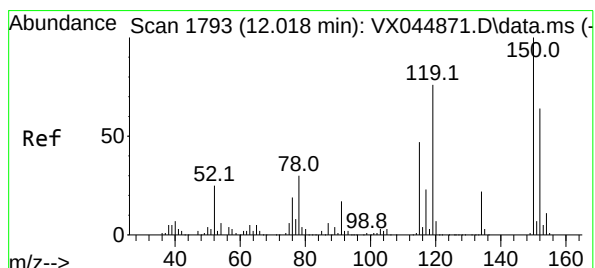
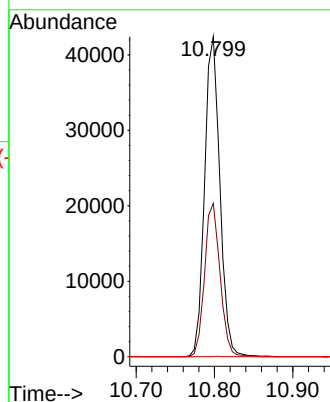
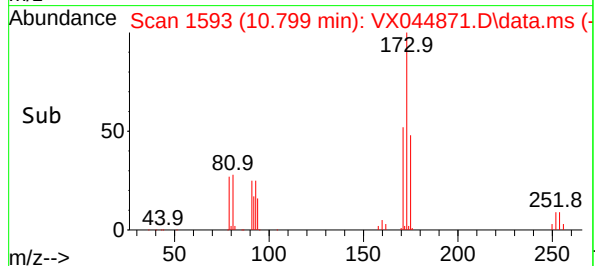
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:173 Resp: 5741
Ion Ratio Lower Upper
173 100
175 48.5 24.3 72.8
254 0.0 0.0 0.0

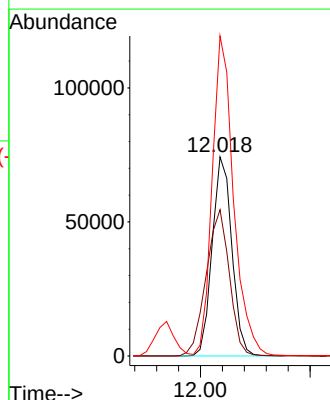
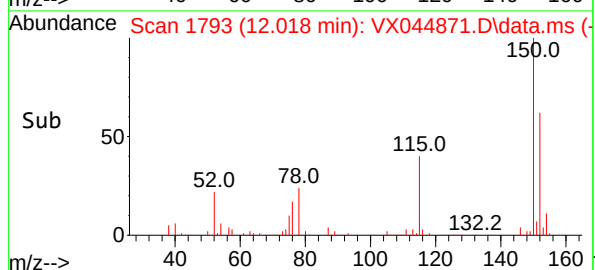
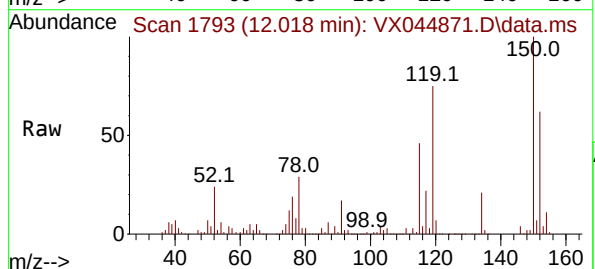
Manual Integrations
APPROVED

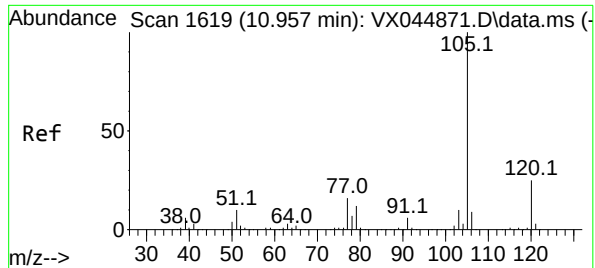
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:152 Resp: 92648
Ion Ratio Lower Upper
152 100
115 86.7 43.4 130.1
150 175.2 0.0 350.4





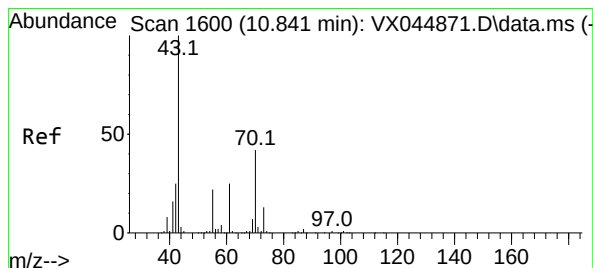
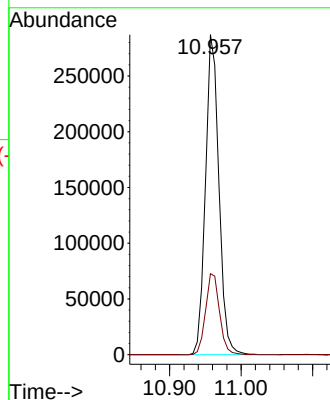
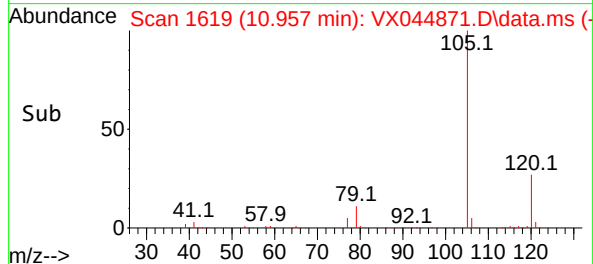
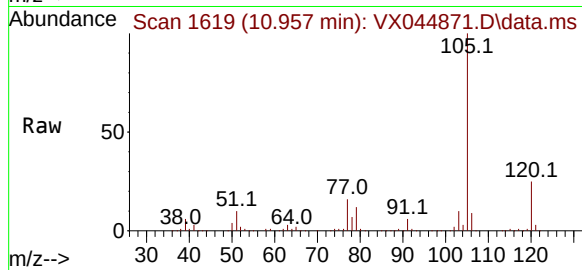
#73
Isopropylbenzene
Concen: 50.239 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 374770
Ion Ratio Lower Upper
105 100
120 26.3 13.2 39.5

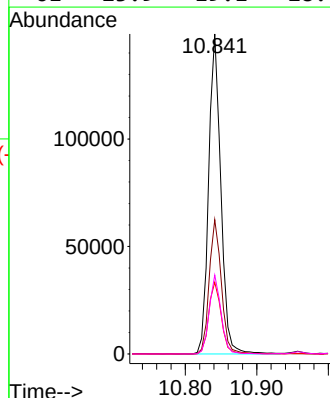
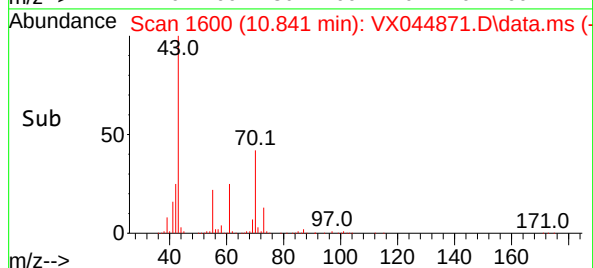
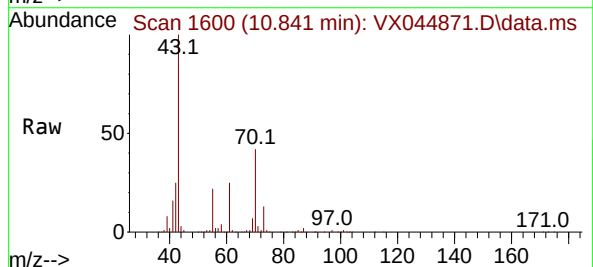
Manual Integrations
APPROVED

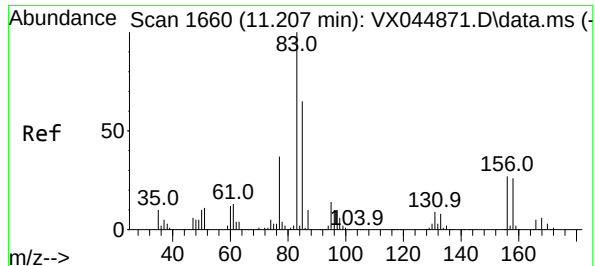
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#74
N-ethyl acetate
Concen: 52.189 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 176174
Ion Ratio Lower Upper
43 100
70 42.1 33.7 50.5
55 23.2 18.6 27.8
61 23.9 19.1 28.7





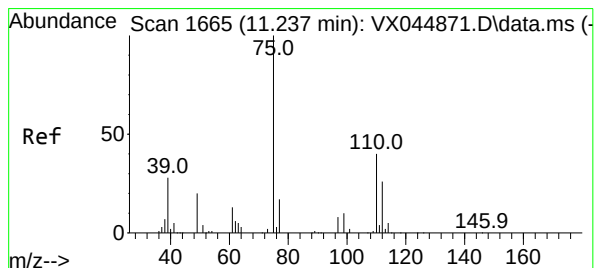
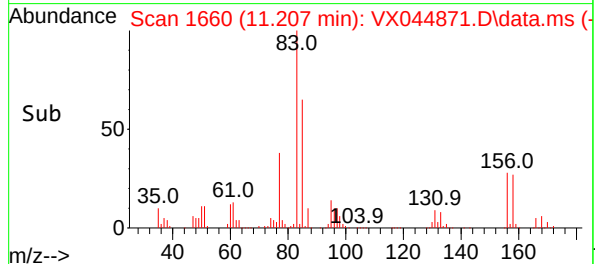
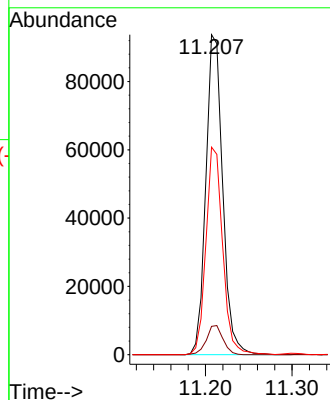
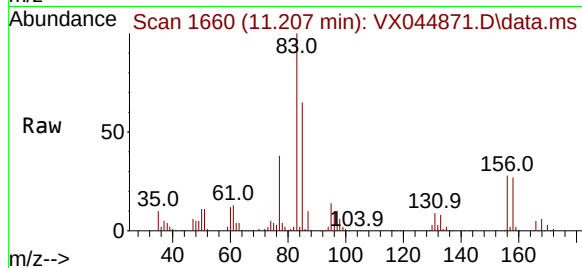
#75
1,1,2,2-Tetrachloroethane
Concen: 49.364 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 126542
Ion Ratio Lower Upper
83 100
131 9.0 4.5 13.5
85 64.5 32.3 96.8

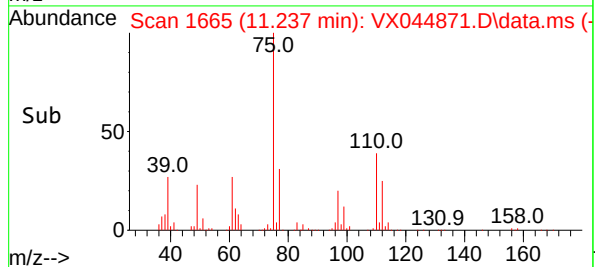
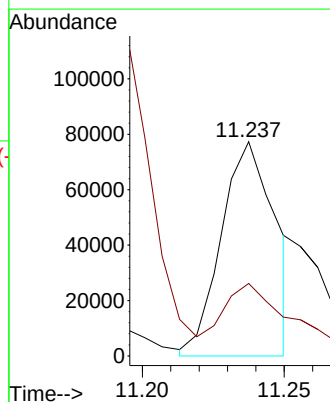
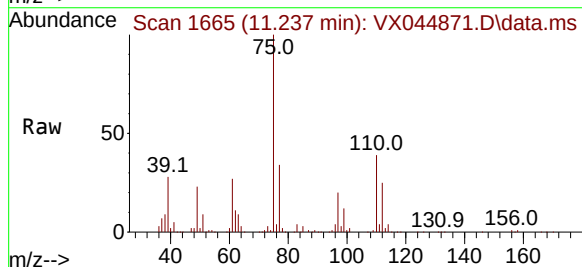
Manual Integrations
APPROVED

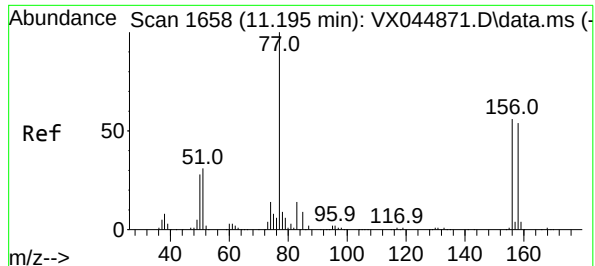
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#76
1,2,3-Trichloropropane
Concen: 49.903 ug/l m
RT: 11.237 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

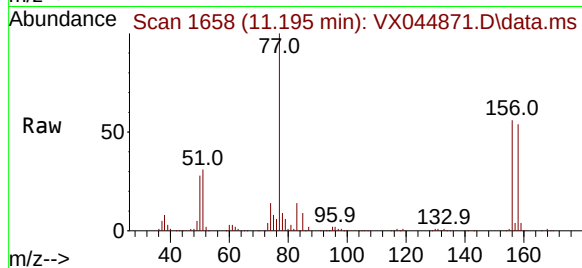
Tgt Ion: 75 Resp: 102508
Ion Ratio Lower Upper
75 100
77 43.8 21.9 65.7





#77
Bromobenzene
Concen: 49.931 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

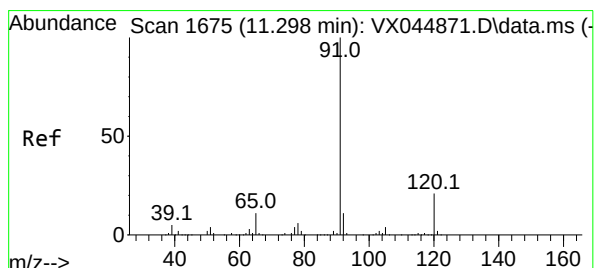
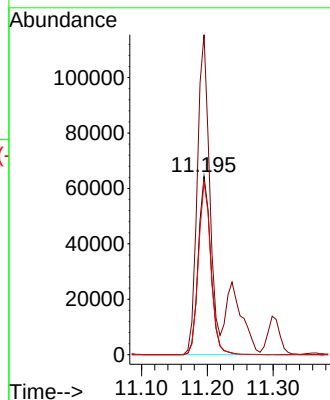
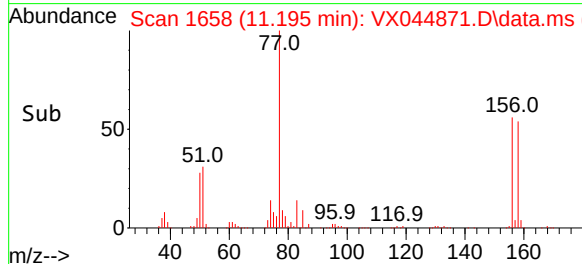
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:156 Resp: 84448
Ion Ratio Lower Upper
156 100
77 176.9 88.4 265.3
158 96.8 48.4 145.2

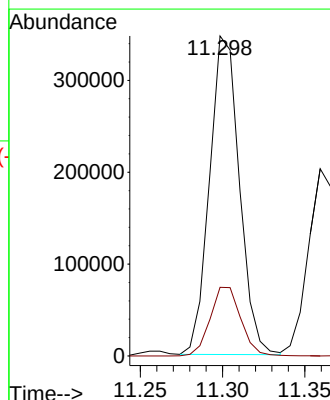
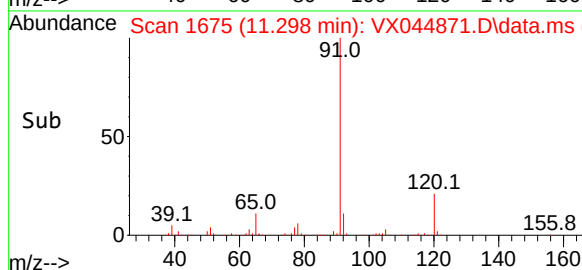
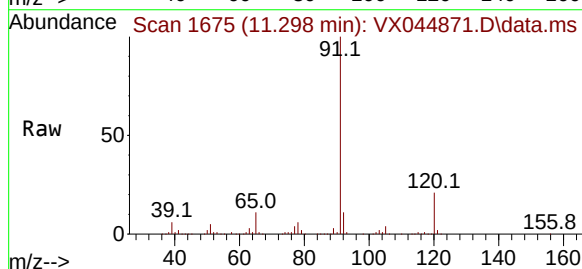
Manual Integrations
APPROVED

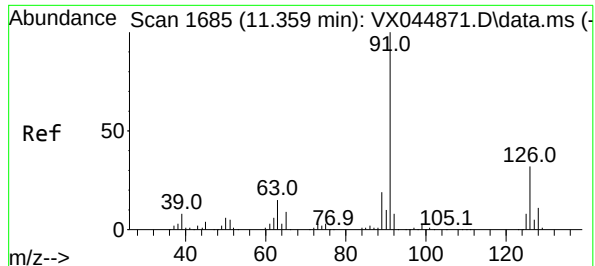
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#78
n-propylbenzene
Concen: 50.818 ug/l
RT: 11.298 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 91 Resp: 437572
Ion Ratio Lower Upper
91 100
120 22.2 11.1 33.3





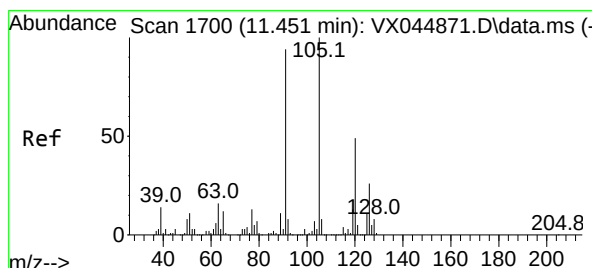
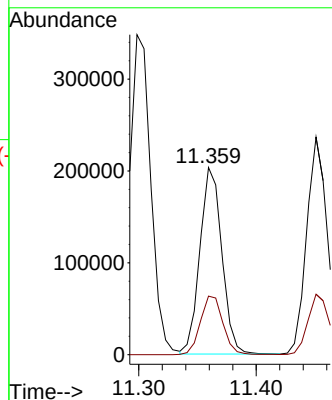
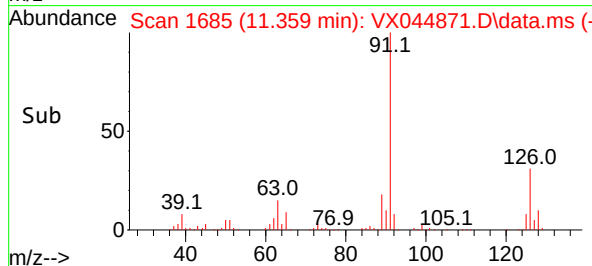
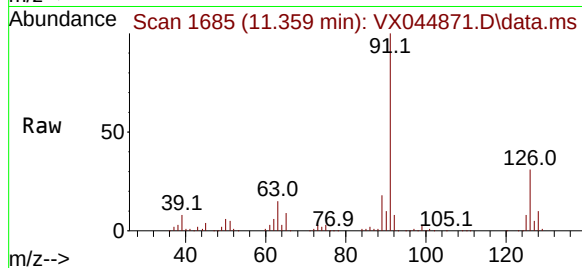
#79
2-Chlorotoluene
Concen: 49.749 ug/l
RT: 11.359 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 263269
Ion Ratio Lower Upper
91 100
126 32.4 16.2 48.6

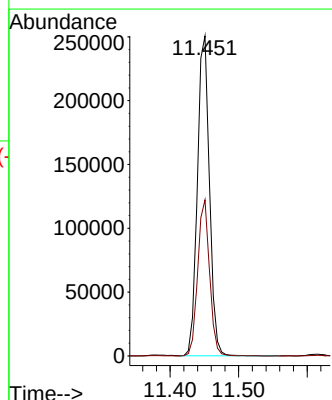
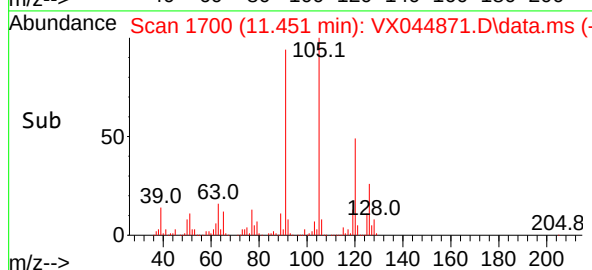
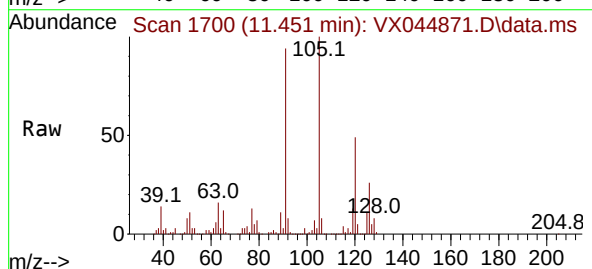
Manual Integrations
APPROVED

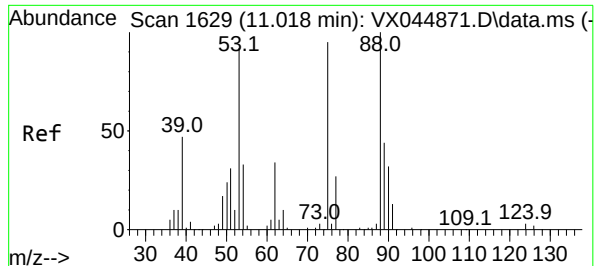
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#80
1,3,5-Trimethylbenzene
Concen: 50.789 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:105 Resp: 307465
Ion Ratio Lower Upper
105 100
120 48.0 24.0 72.0





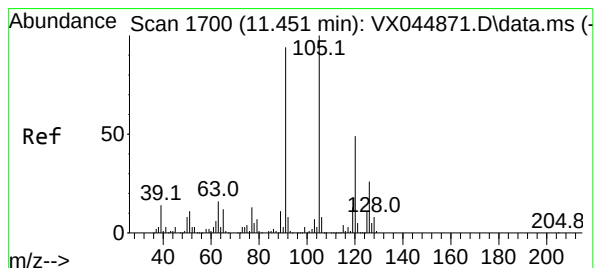
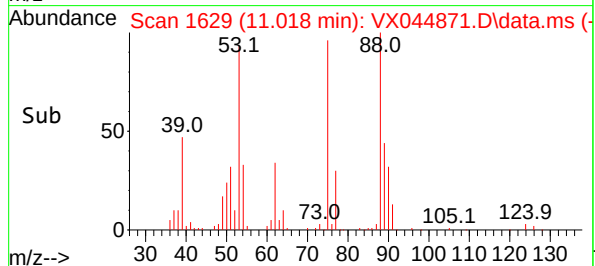
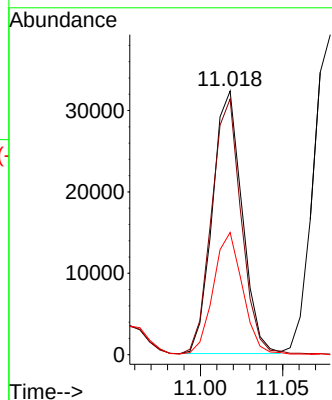
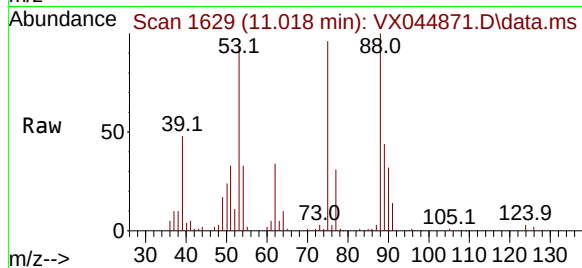
#81
trans-1,4-Dichloro-2-butene
Concen: 50.701 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 4048
Ion Ratio Lower Upper
75 100
53 97.5 78.0 117.0
89 45.7 36.6 54.8

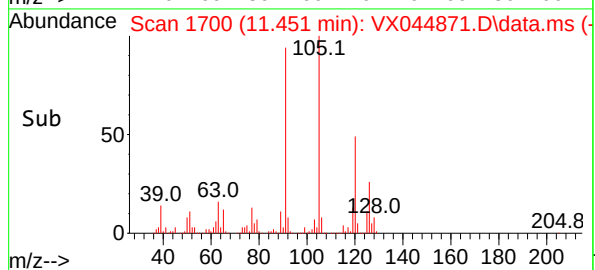
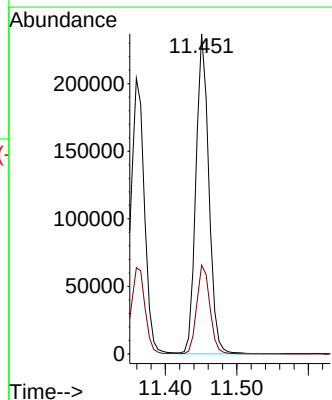
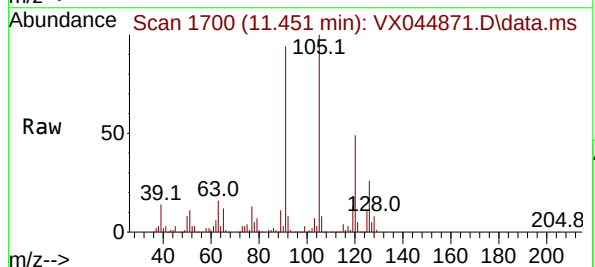
Manual Integrations
APPROVED

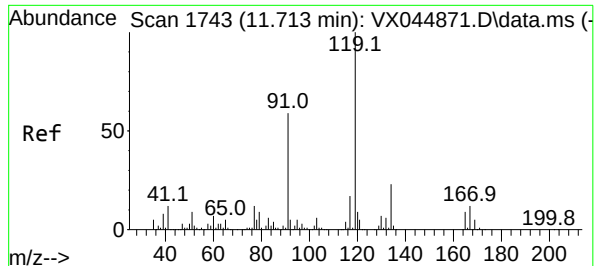
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#82
4-Chlorotoluene
Concen: 50.531 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 91 Resp: 295844
Ion Ratio Lower Upper
91 100
126 28.4 14.2 42.6





#83

tert-Butylbenzene

Concen: 50.102 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:119 Resp: 306830

Ion Ratio Lower Upper

119 100

91 58.3 29.1 87.4

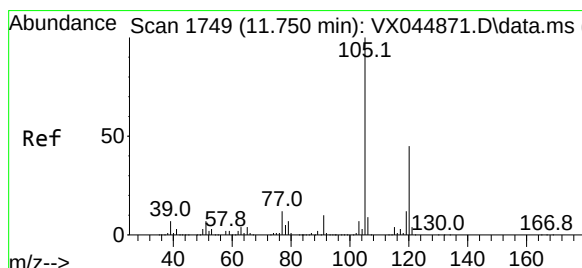
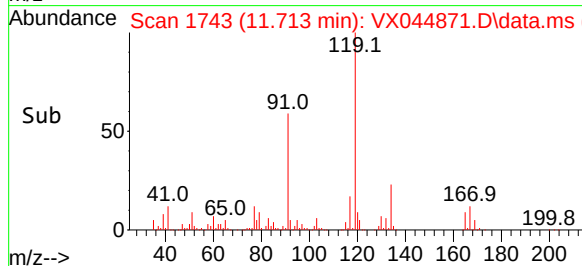
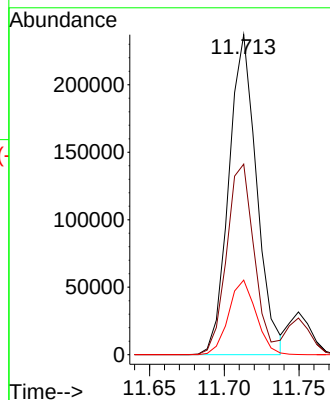
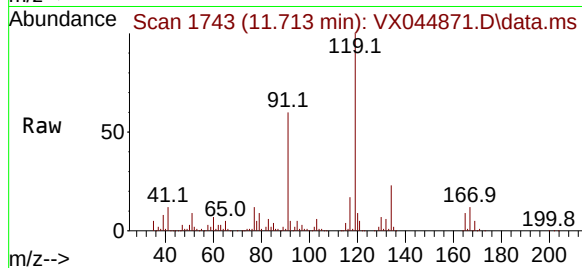
134 23.0 11.5 34.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#84

1,2,4-Trimethylbenzene

Concen: 52.085 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX044871.D

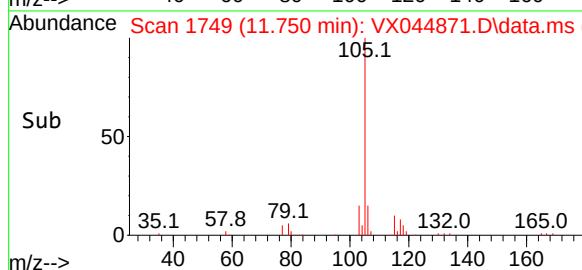
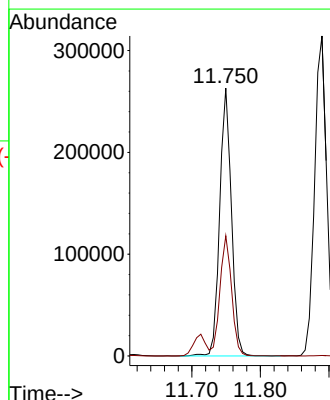
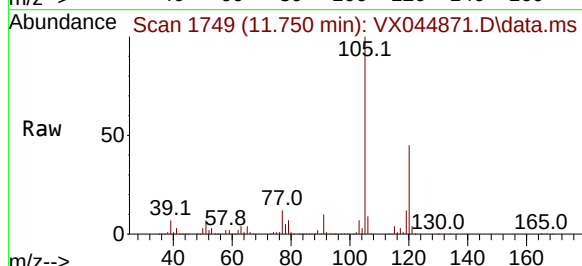
Acq: 10 Feb 2025 11:34

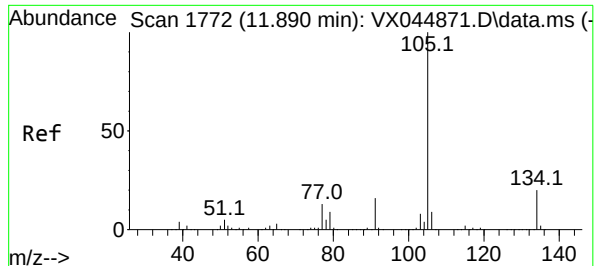
Tgt Ion:105 Resp: 311205

Ion Ratio Lower Upper

105 100

120 44.7 22.4 67.0





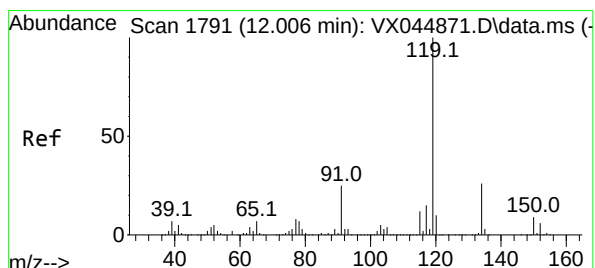
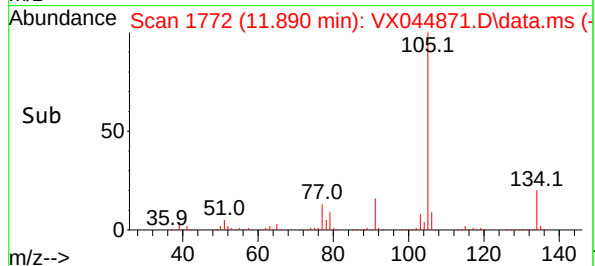
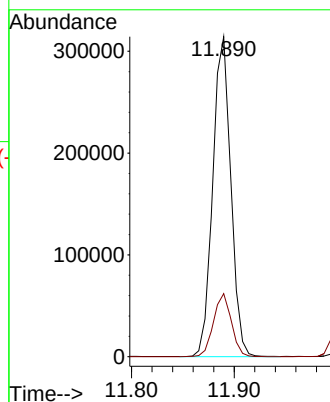
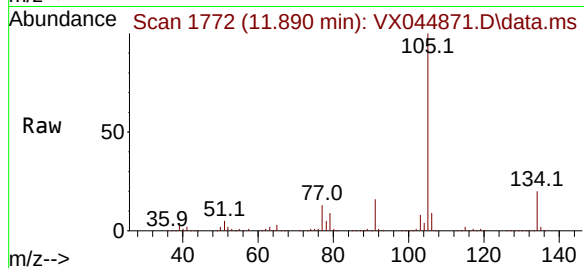
#85
sec-Butylbenzene
Concen: 50.657 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 38415
Ion Ratio Lower Upper
105 100
134 19.5 9.8 29.3

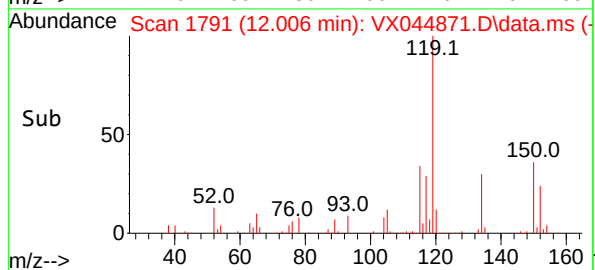
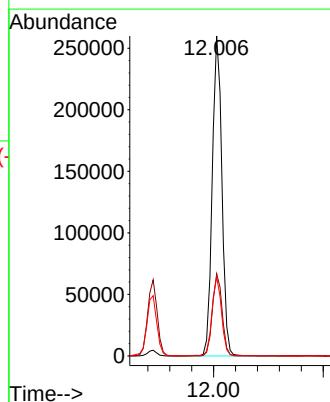
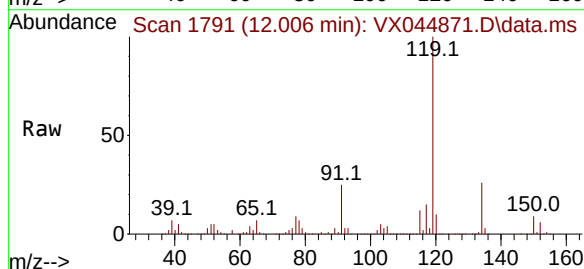
Manual Integrations
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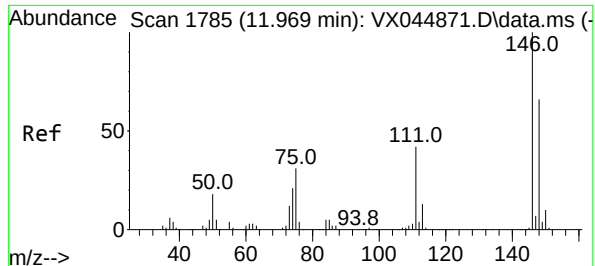
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#86
p-Isopropyltoluene
Concen: 51.689 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:119 Resp: 315226
Ion Ratio Lower Upper
119 100
134 25.9 13.0 38.9
91 24.2 12.1 36.3





#87

1,3-Dichlorobenzene

Concen: 50.021 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 155579

Ion Ratio Lower Upper

146 100

111 42.4 21.2 63.6

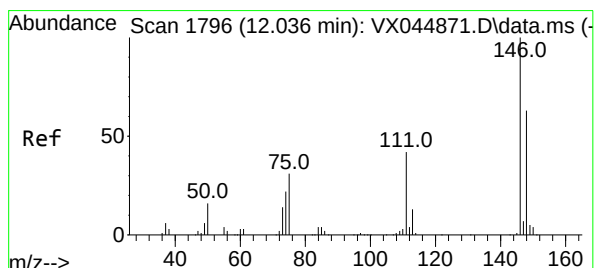
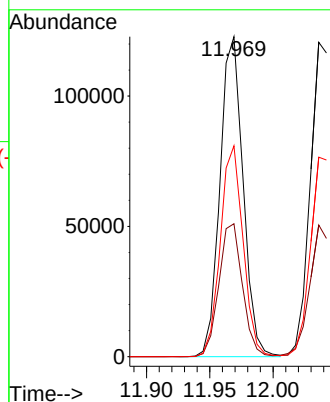
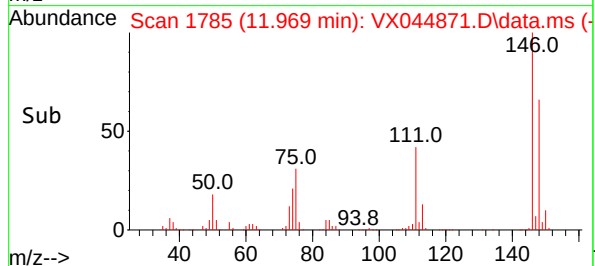
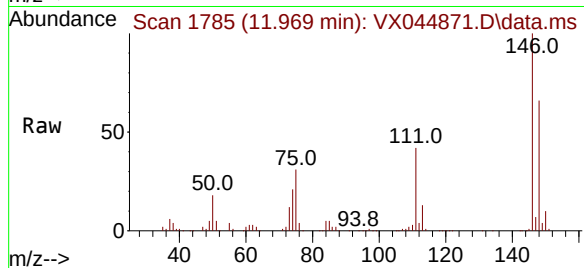
148 65.0 32.5 97.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#88

1,4-Dichlorobenzene

Concen: 49.657 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

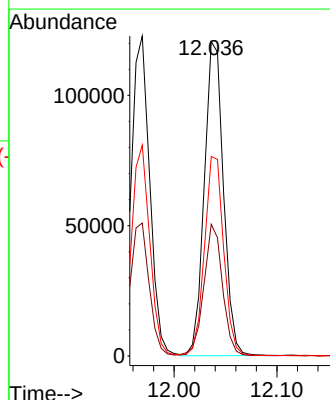
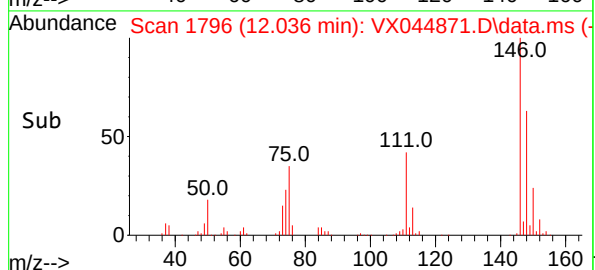
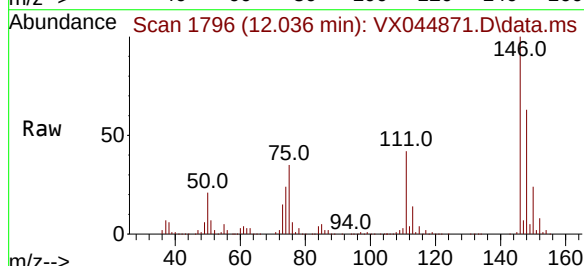
Tgt Ion:146 Resp: 156162

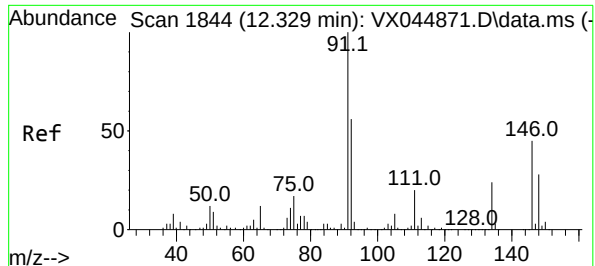
Ion Ratio Lower Upper

146 100

111 40.9 20.4 61.3

148 64.0 32.0 96.0





#89

n-Butylbenzene

Concen: 53.315 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 287649

Ion Ratio Lower Upper

91 100

92 54.4 27.2 81.6

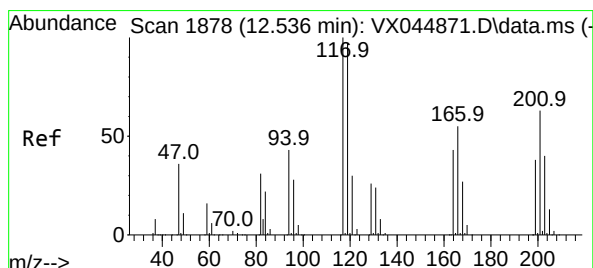
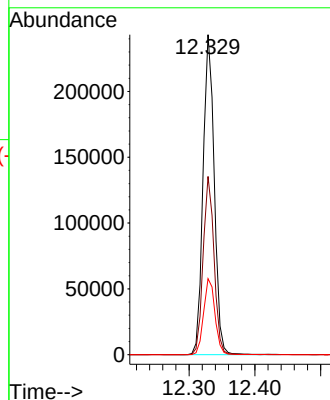
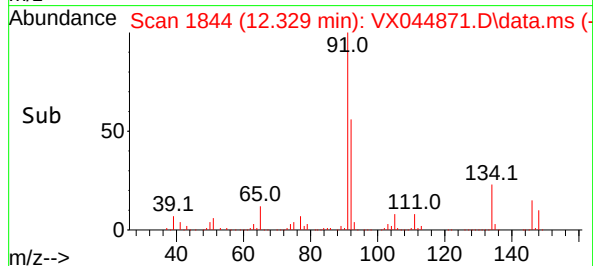
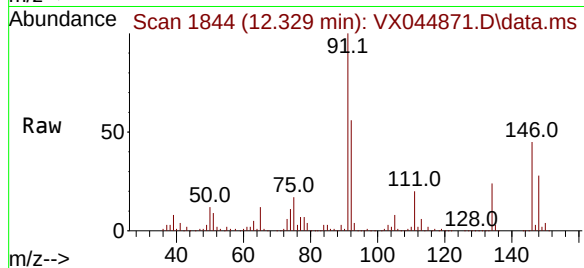
134 24.2 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#90

Hexachloroethane

Concen: 49.874 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX044871.D

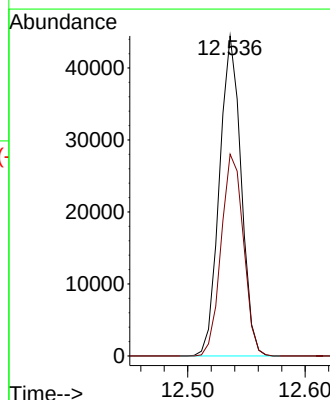
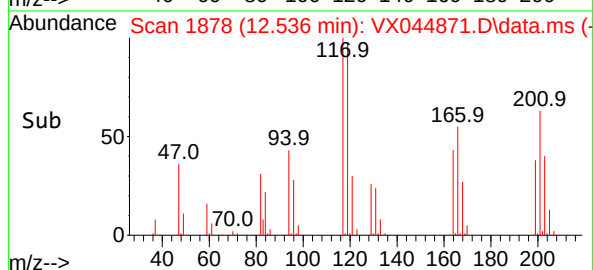
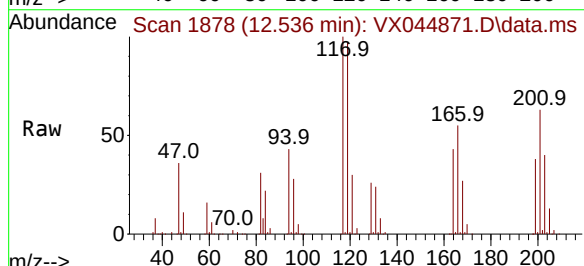
Acq: 10 Feb 2025 11:34

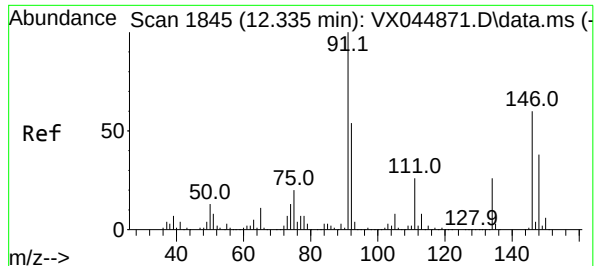
Tgt Ion:117 Resp: 56951

Ion Ratio Lower Upper

117 100

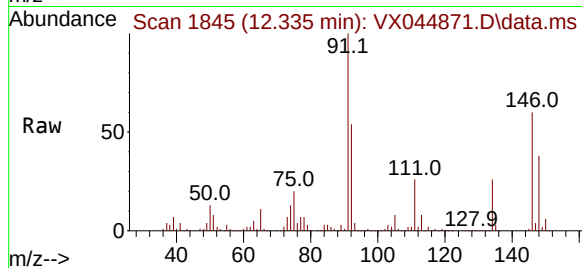
201 65.0 32.5 97.5





#91
1,2-Dichlorobenzene
Concen: 50.500 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

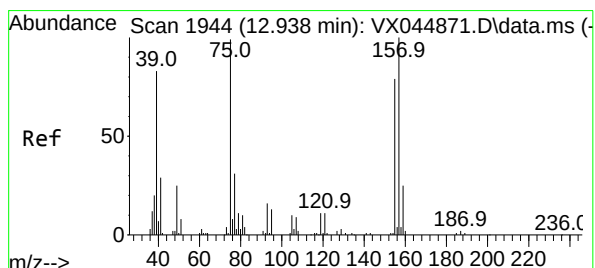
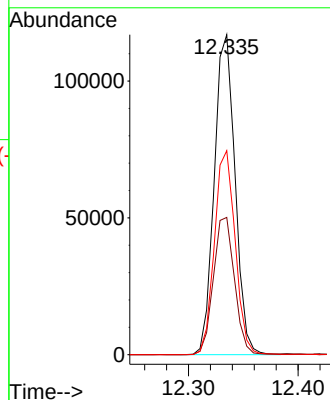
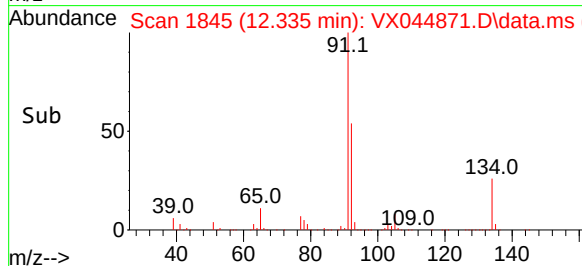
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:146 Resp: 154364
Ion Ratio Lower Upper
146 100
111 43.6 21.8 65.4
148 63.9 31.9 95.9

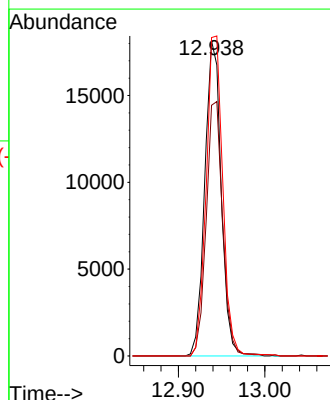
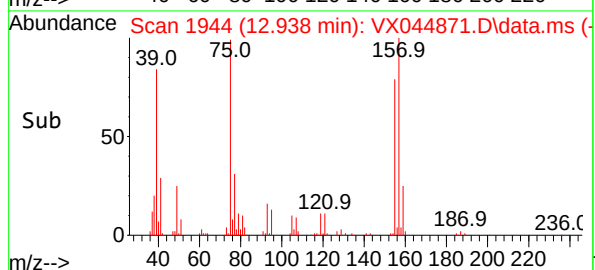
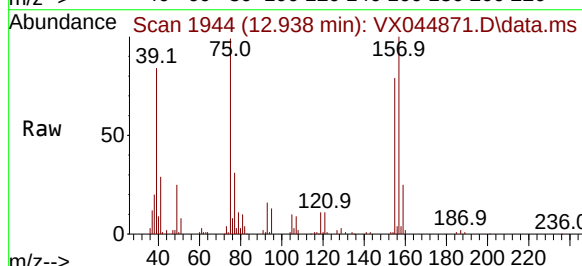
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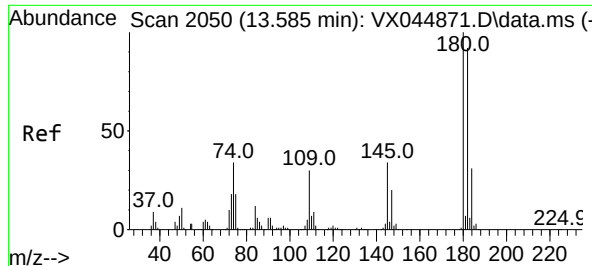
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 51.135 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 75 Resp: 23924
Ion Ratio Lower Upper
75 100
155 80.9 40.5 121.4
157 102.9 51.4 154.3





#93

1,2,4-Trichlorobenzene

Concen: 50.747 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:180 Resp: 9386

Ion Ratio Lower Upper

180 100

182 95.2 47.6 142.8

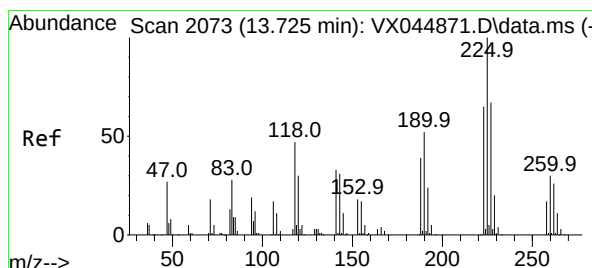
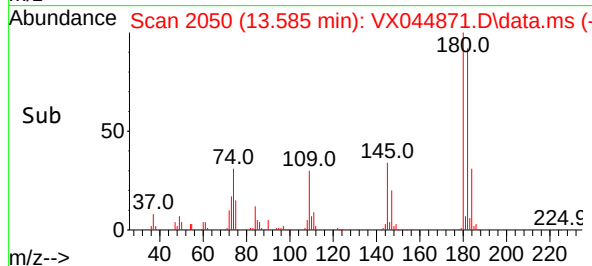
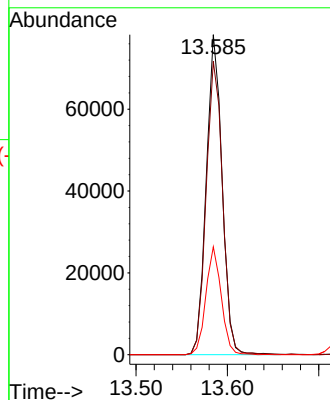
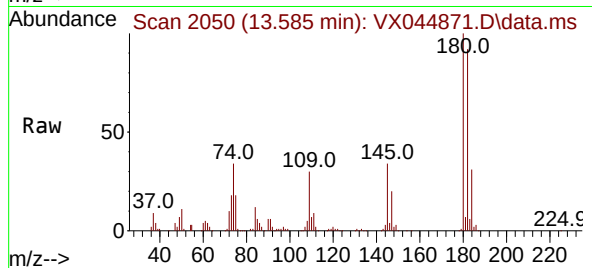
145 32.7 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#94

Hexachlorobutadiene

Concen: 48.321 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

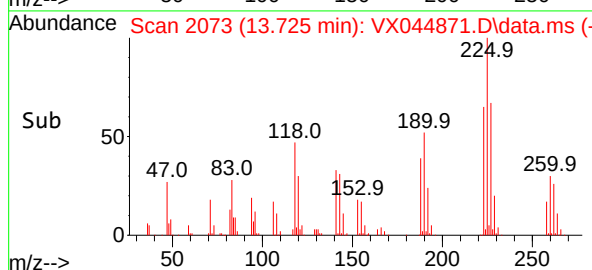
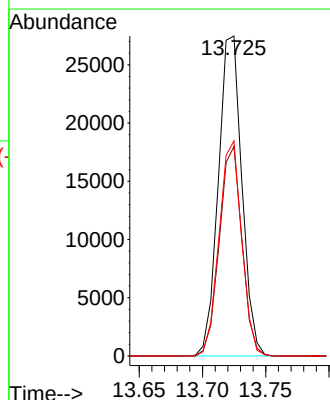
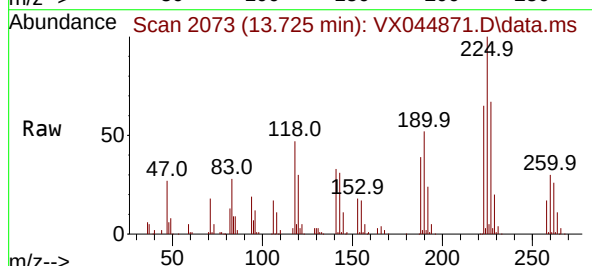
Tgt Ion:225 Resp: 35481

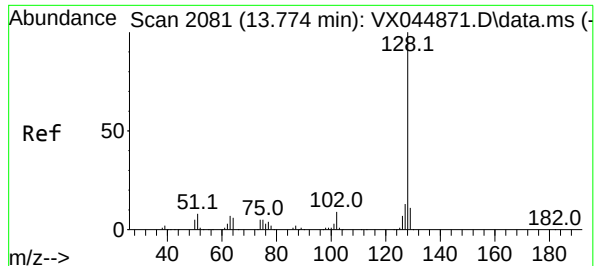
Ion Ratio Lower Upper

225 100

223 62.8 31.4 94.2

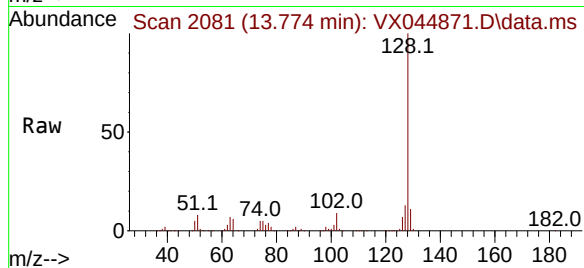
227 64.5 32.3 96.8





#95
Naphthalene
Concen: 51.995 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

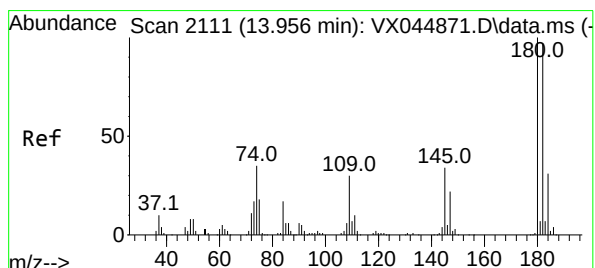
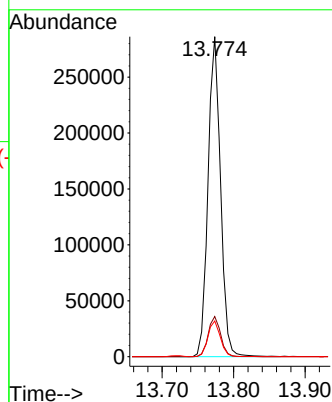
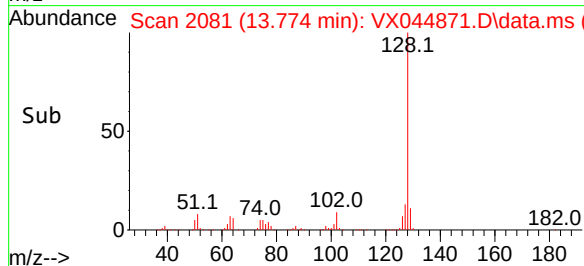
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:128 Resp: 347649
Ion Ratio Lower Upper
128 100
127 12.6 10.1 15.1
129 11.1 8.9 13.3

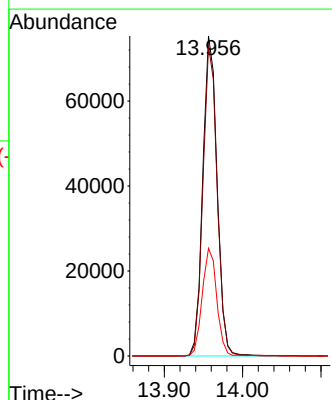
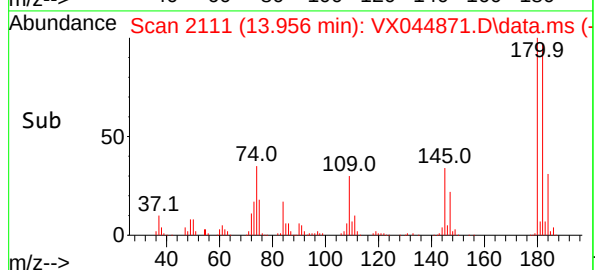
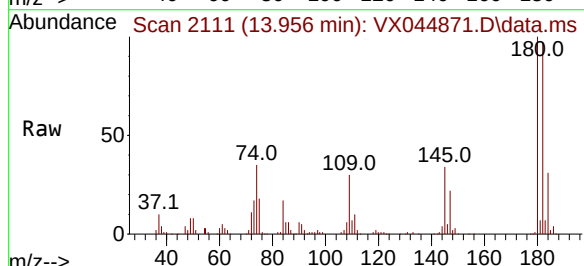
Manual Integrations
APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.245 ug/l
RT: 13.956 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:180 Resp: 95510
Ion Ratio Lower Upper
180 100
182 95.7 47.9 143.6
145 34.2 17.1 51.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044872.D
 Acq On : 10 Feb 2025 12:05
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 02:01:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 01:47:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	129508	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	236372	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	203881	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	91371	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	183093	96.580	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 193.160%#			
35) Dibromofluoromethane	5.373	113	151228	98.404	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 196.800%#			
50) Toluene-d8	8.647	98	570976	98.253	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 196.500%#			
62) 4-Bromofluorobenzene	11.079	95	196066	100.079	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 200.160%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.167	85	182788	100.632	ug/l	99
3) Chloromethane	1.301	50	208416	94.275	ug/l	99
4) Vinyl Chloride	1.374	62	209017	97.593	ug/l	100
5) Bromomethane	1.593	94	62797	97.984	ug/l	97
6) Chloroethane	1.660	64	64581	100.253	ug/l	98
7) Trichlorofluoromethane	1.868	101	262354	96.865	ug/l	99
8) Diethyl Ether	2.130	74	95914	97.647	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.313	101	163414	99.860	ug/l	100
10) Methyl Iodide	2.441	142	212118	100.016	ug/l	99
11) Tert butyl alcohol	3.002	59	165263	469.903	ug/l #	73
12) 1,1-Dichloroethene	2.307	96	163593	98.004	ug/l	98
13) Acrolein	2.233	56	180570	497.628	ug/l	99
14) Allyl chloride	2.654	41	297526	98.624	ug/l	98
15) Acrylonitrile	3.063	53	466855	497.173	ug/l	99
16) Acetone	2.386	43	369720	485.125	ug/l	99
17) Carbon Disulfide	2.502	76	463308	101.216	ug/l	99
18) Methyl Acetate	2.703	43	238689	99.249	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	521003	98.098	ug/l	100
20) Methylene Chloride	2.782	84	180120	96.490	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	164067	99.864	ug/l	95
22) Diisopropyl ether	3.758	45	565927	99.157	ug/l	95
23) Vinyl Acetate	3.715	43	2387200	513.051	ug/l	100
24) 1,1-Dichloroethane	3.599	63	313164	98.064	ug/l	99
25) 2-Butanone	4.550	43	617283	498.801	ug/l	98
26) 2,2-Dichloropropane	4.465	77	248324	98.053	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	196381	99.513	ug/l	99
28) Bromochloromethane	4.885	49	148137	96.524	ug/l	100
29) Tetrahydrofuran	4.995	42	405208	493.104	ug/l	100
30) Chloroform	5.087	83	298690	96.445	ug/l	99
31) Cyclohexane	5.458	56	286830	97.426	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	254941	97.050	ug/l	100
36) 1,1-Dichloropropene	5.684	75	216005	97.422	ug/l	100
37) Ethyl Acetate	4.709	43	244164	99.005	ug/l	99
38) Carbon Tetrachloride	5.666	117	210381	96.828	ug/l	97
39) Methylcyclohexane	7.373	83	299703	104.554	ug/l	98
40) Benzene	6.025	78	675556	97.576	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044872.D
 Acq On : 10 Feb 2025 12:05
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :John Carlone 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 02:01:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 01:47:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.910	41	135629	102.745	ug/l	99
42) 1,2-Dichloroethane	6.080	62	218174	98.875	ug/l	100
43) Isopropyl Acetate	6.336	43	405489	101.818	ug/l	100
44) Trichloroethene	7.117	130	156832	99.103	ug/l	96
45) 1,2-Dichloropropane	7.422	63	170337	98.893	ug/l	97
46) Dibromomethane	7.574	93	119149	99.747	ug/l	100
47) Bromodichloromethane	7.818	83	236506	102.254	ug/l	97
48) Methyl methacrylate	7.690	41	195892	104.321	ug/l	100
49) 1,4-Dioxane	7.659	88	77816	1931.508	ug/l	98
51) 4-Methyl-2-Pentanone	8.574	43	1196887	494.353	ug/l	100
52) Toluene	8.714	92	409318	99.270	ug/l	99
53) t-1,3-Dichloropropene	8.970	75	249725	106.694	ug/l	98
54) cis-1,3-Dichloropropene	8.360	75	277371	106.287	ug/l	100
55) 1,1,2-Trichloroethane	9.147	97	156629	98.817	ug/l	100
56) Ethyl methacrylate	9.116	69	268693	104.958	ug/l	99
57) 1,3-Dichloropropane	9.305	76	273845	98.742	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	664198	528.405	ug/l	100
59) 2-Hexanone	9.427	43	871904	499.819	ug/l	99
60) Dibromochloromethane	9.519	129	173848	102.557	ug/l	100
61) 1,2-Dibromoethane	9.604	107	162982	101.451	ug/l	98
64) Tetrachloroethene	9.269	164	125294	97.447	ug/l	100
65) Chlorobenzene	10.073	112	436565	99.694	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	144793	102.728	ug/l	100
67) Ethyl Benzene	10.189	91	784184	101.477	ug/l	100
68) m/p-Xylenes	10.299	106	575559	201.907	ug/l	99
69) o-Xylene	10.640	106	281830	98.530	ug/l	100
70) Styrene	10.653	104	473403	102.728	ug/l	99
71) Bromoform	10.799	173	112371	106.827	ug/l #	99
73) Isopropylbenzene	10.957	105	719923	97.854	ug/l	99
74) N-amyl acetate	10.842	43	345193	103.687	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	238529	94.351	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	198320m	97.896	ug/l	
77) Bromobenzene	11.195	156	163845	98.230	ug/l	100
78) n-propylbenzene	11.299	91	858793	101.132	ug/l	100
79) 2-Chlorotoluene	11.360	91	497149	95.257	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	584885	97.966	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	83483	106.006	ug/l	98
82) 4-Chlorotoluene	11.451	91	569510	98.634	ug/l	100
83) tert-Butylbenzene	11.713	119	591396	97.917	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	588385	99.851	ug/l	99
85) sec-Butylbenzene	11.890	105	749534	100.219	ug/l	99
86) p-Isopropyltoluene	12.006	119	607577	101.019	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	303851	99.061	ug/l	98
88) 1,4-Dichlorobenzene	12.037	146	303417	97.830	ug/l	99
89) n-Butylbenzene	12.329	91	583634	109.686	ug/l	100
90) Hexachloroethane	12.536	117	117533	104.365	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	293151	97.244	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	47745	103.477	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	193214	105.921	ug/l	99
94) Hexachlorobutadiene	13.725	225	74605	103.024	ug/l	99
95) Naphthalene	13.774	128	689104	104.505	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	190534	103.659	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044872.D
Acq On : 10 Feb 2025 12:05
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 02:01:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

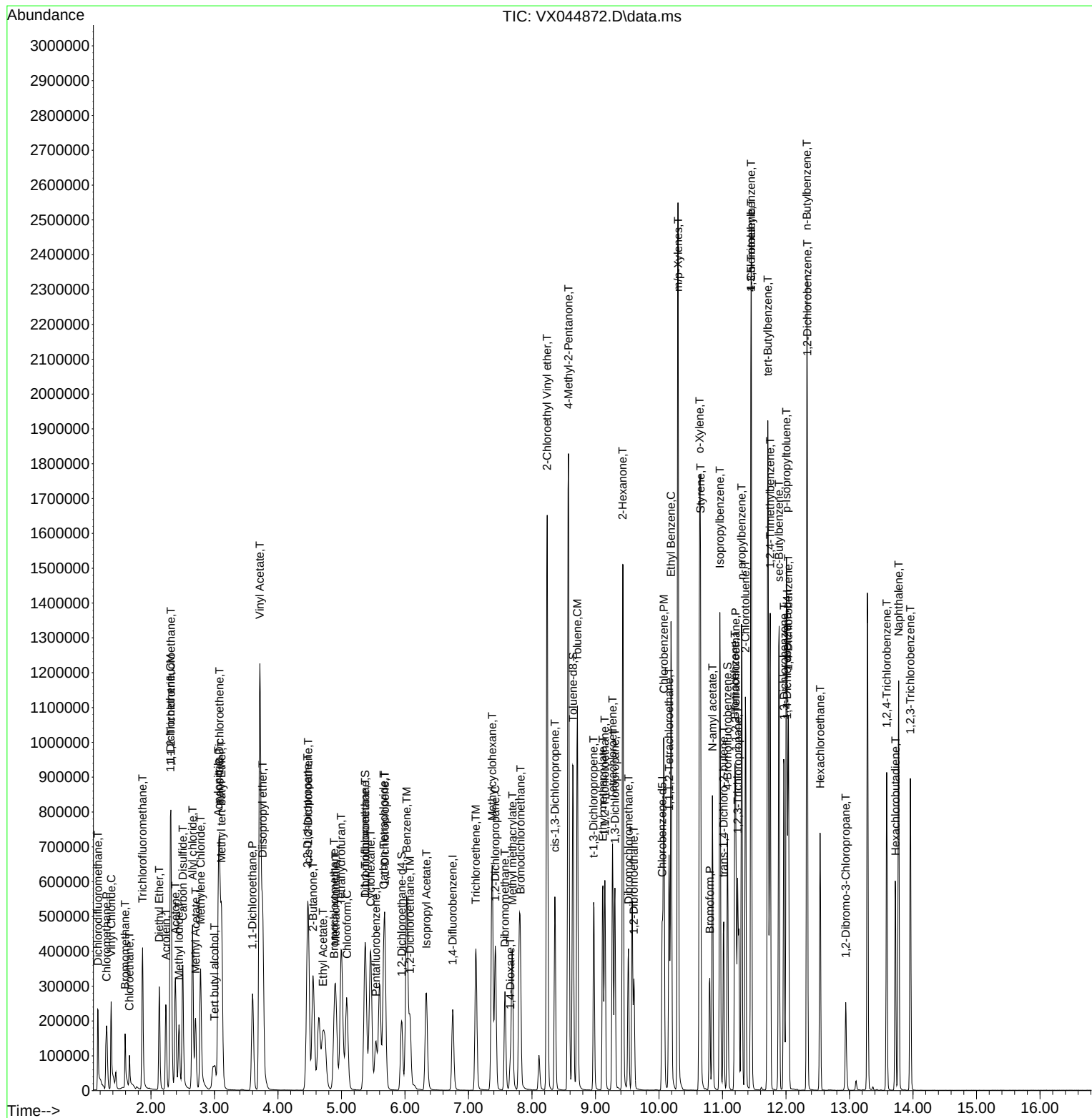
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

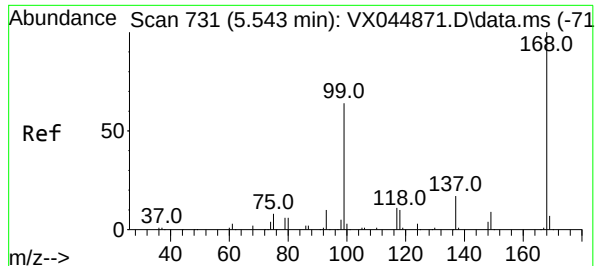
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations

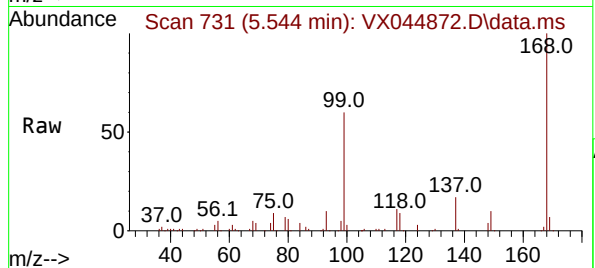
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. 0.001 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

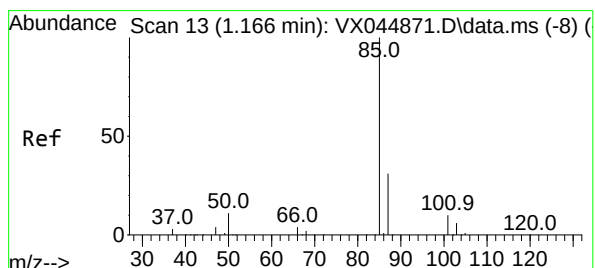
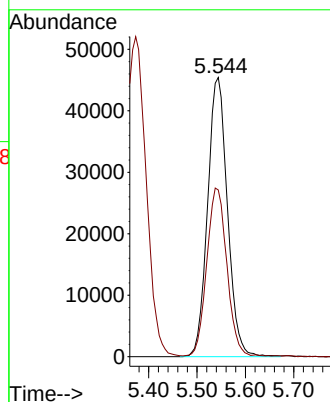
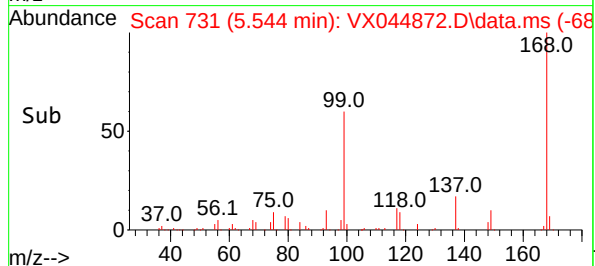
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100



Tgt Ion:168 Resp: 129508
Ion Ratio Lower Upper
168 100
99 59.4 51.2 76.8

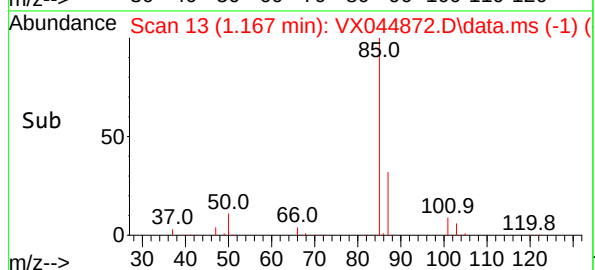
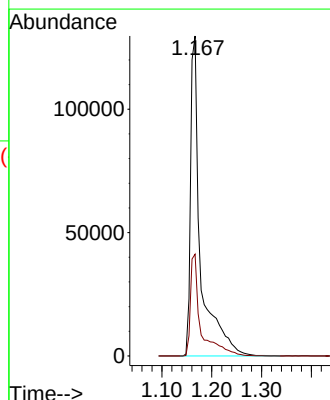
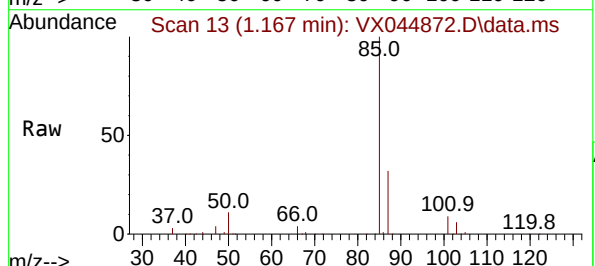
Manual Integrations
APPROVED

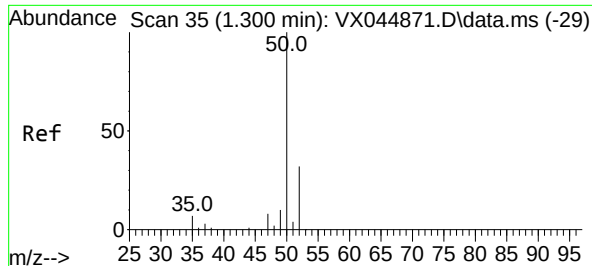
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#2
Dichlorodifluoromethane
Concen: 100.632 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

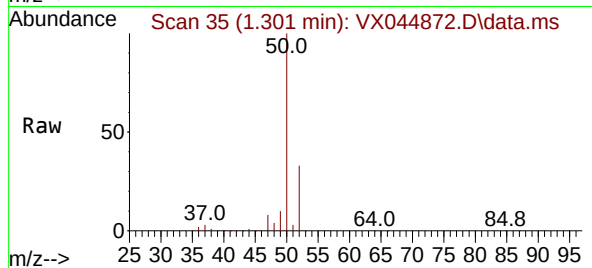
Tgt Ion: 85 Resp: 182788
Ion Ratio Lower Upper
85 100
87 31.8 15.8 47.3





#3
Chloromethane
Concen: 94.275 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

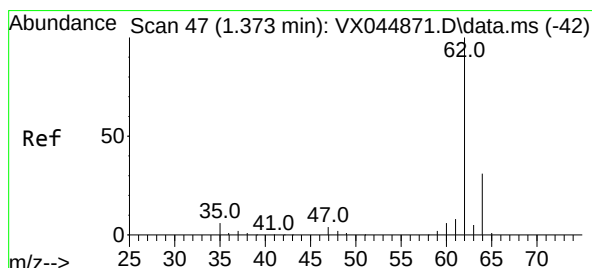
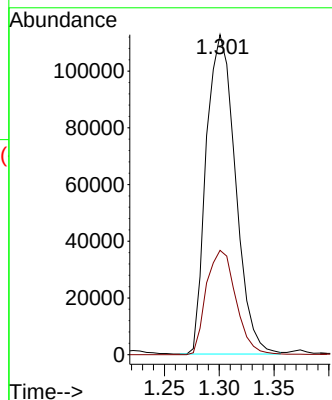
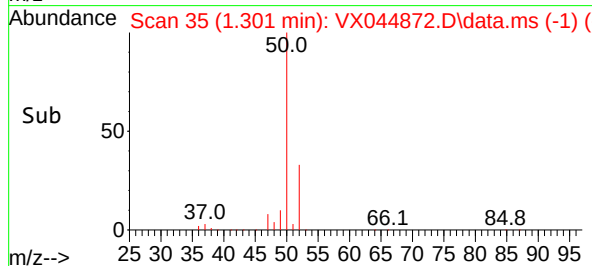
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 50 Resp: 208410
Ion Ratio Lower Upper
50 100
52 32.7 25.9 38.9

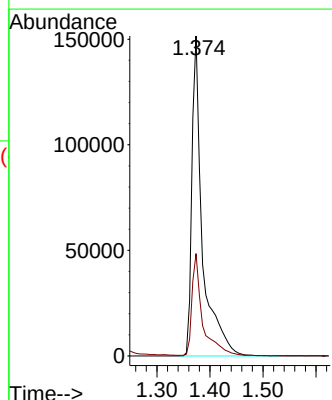
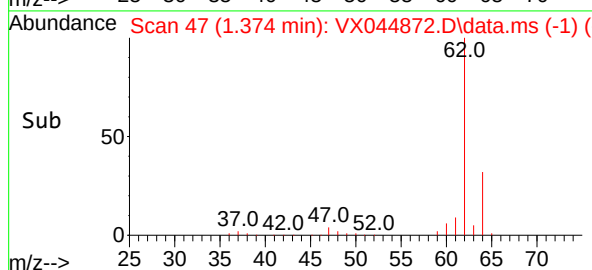
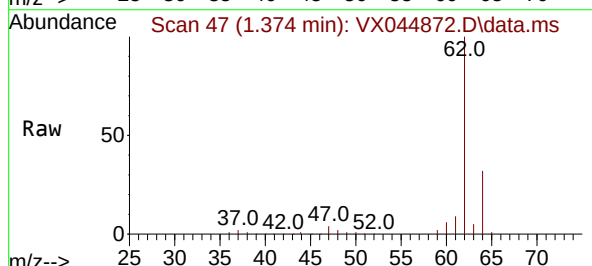
Manual Integrations
APPROVED

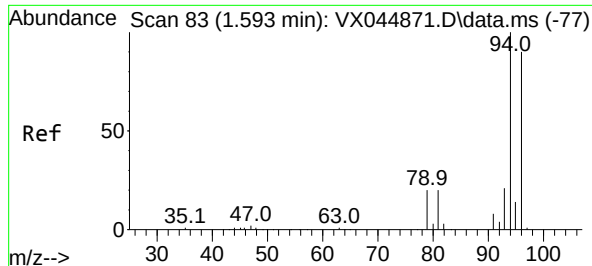
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#4
Vinyl Chloride
Concen: 97.593 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 62 Resp: 209017
Ion Ratio Lower Upper
62 100
64 31.9 25.4 38.0





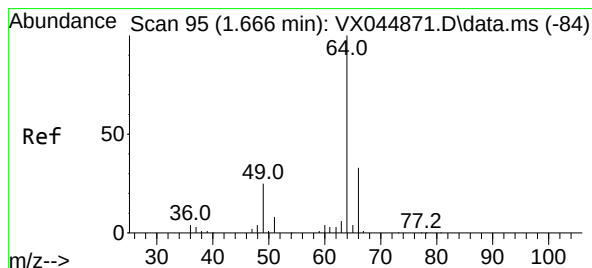
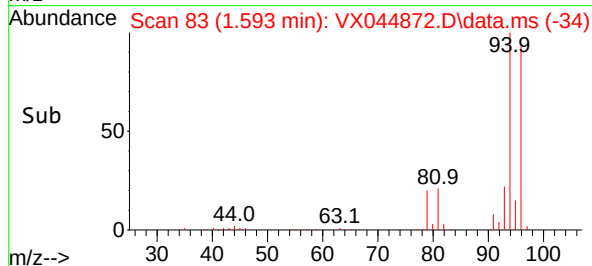
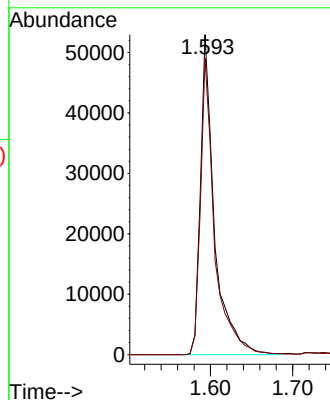
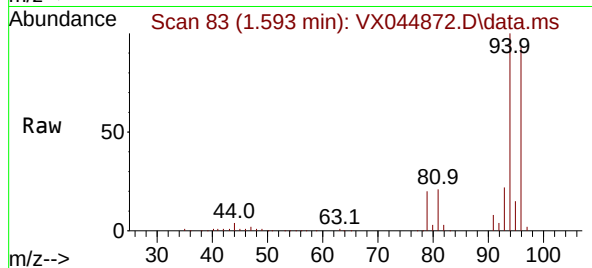
#5
Bromomethane
Concen: 97.984 ug/l
RT: 1.593 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 6279
Ion Ratio Lower Upper
94 100
96 92.6 71.6 107.4

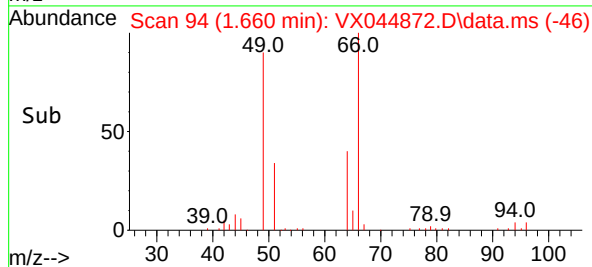
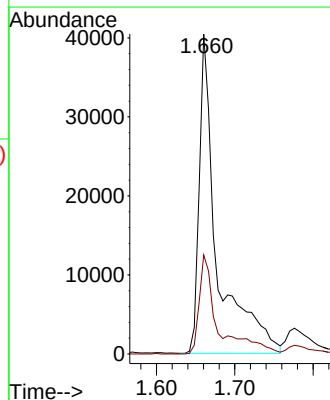
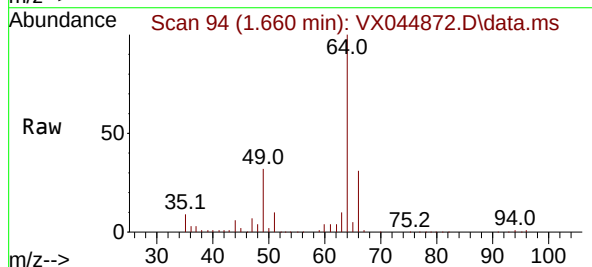
Manual Integrations
APPROVED

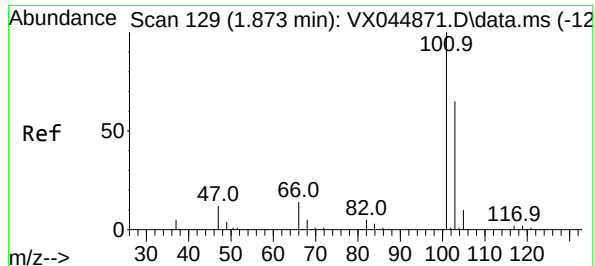
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#6
Chloroethane
Concen: 100.253 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

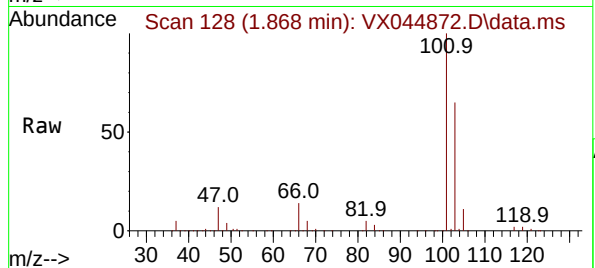
Tgt Ion: 64 Resp: 64581
Ion Ratio Lower Upper
64 100
66 31.0 25.9 38.9





#7
Trichlorofluoromethane
Concen: 96.865 ug/l
RT: 1.868 min Scan# 129
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

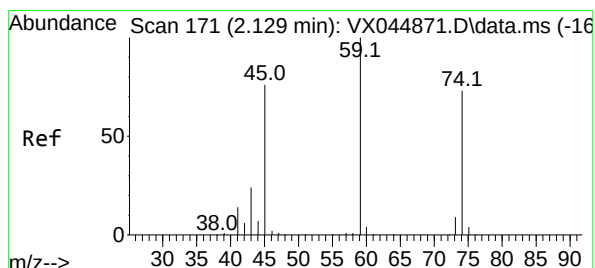
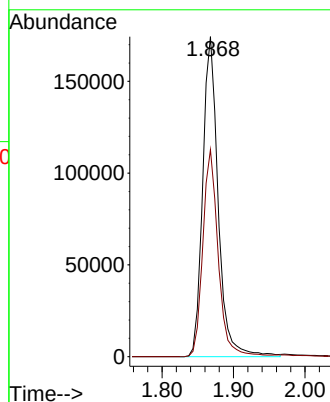
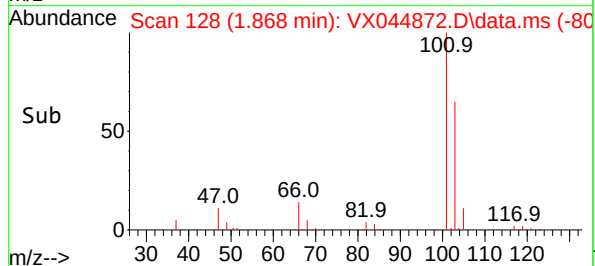
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100



Tgt Ion:101 Resp: 262354
Ion Ratio Lower Upper
101 100
103 64.7 52.4 78.6

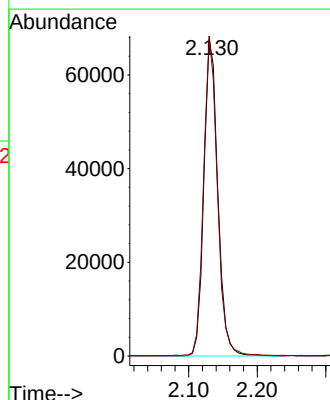
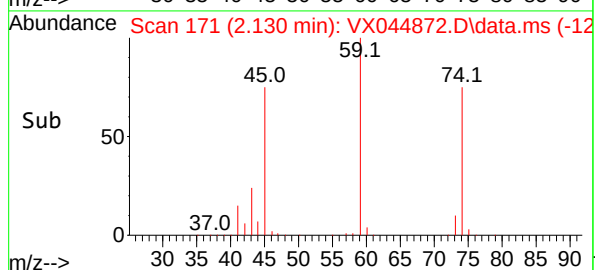
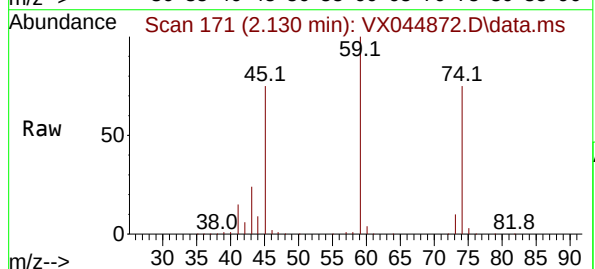
Manual Integrations
APPROVED

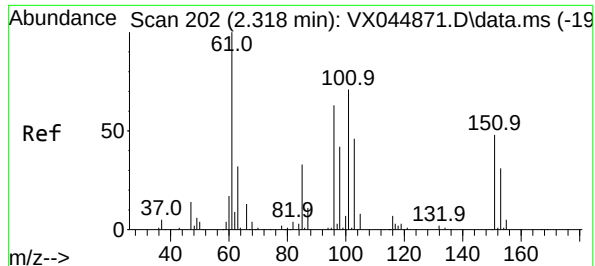
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#8
Diethyl Ether
Concen: 97.647 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 74 Resp: 95914
Ion Ratio Lower Upper
74 100
45 99.5 51.1 153.4





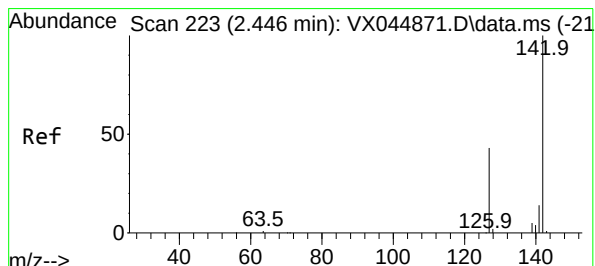
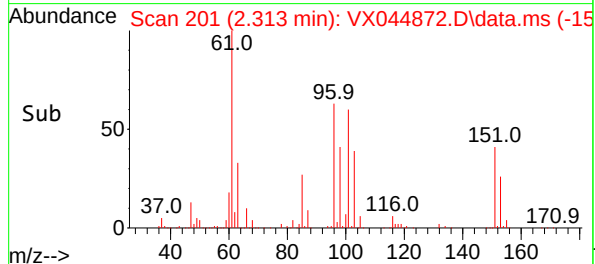
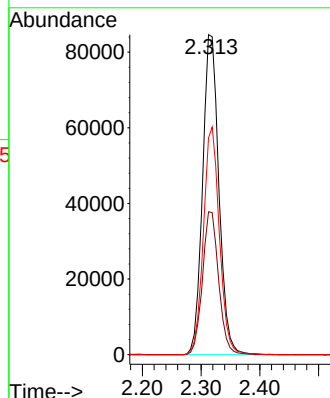
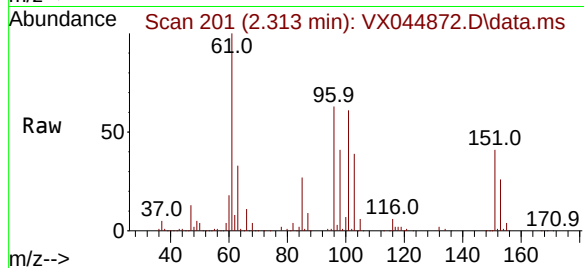
#9
1,1,2-Trichlorotrifluoroethane
Concen: 99.860 ug/l
RT: 2.313 min Scan# 201
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tgt Ion:101 Resp: 163414
Ion Ratio Lower Upper
101 100
85 44.3 35.7 53.5
151 69.8 56.0 84.0

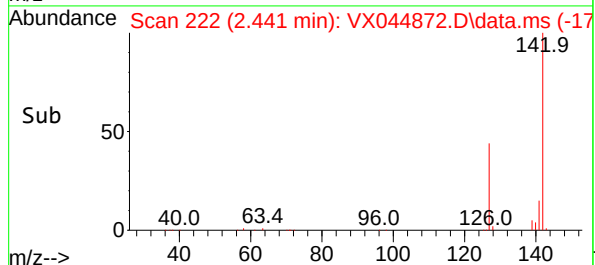
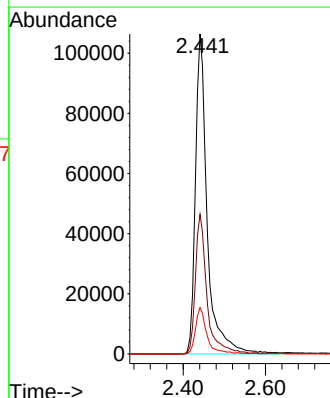
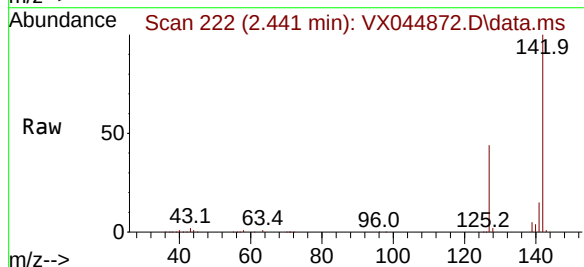
Manual Integrations
APPROVED

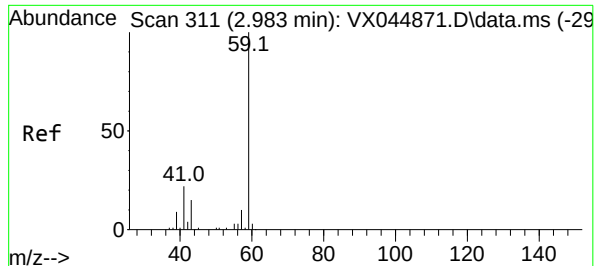
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#10
Methyl Iodide
Concen: 100.016 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:142 Resp: 212118
Ion Ratio Lower Upper
142 100
127 42.5 34.3 51.5
141 14.1 11.4 17.2





#11

Tert butyl alcohol

Concen: 469.903 ug/l

RT: 3.002 min Scan# 311

Delta R.T. 0.019 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 59 Resp: 16526

Ion Ratio Lower Upper

59 100

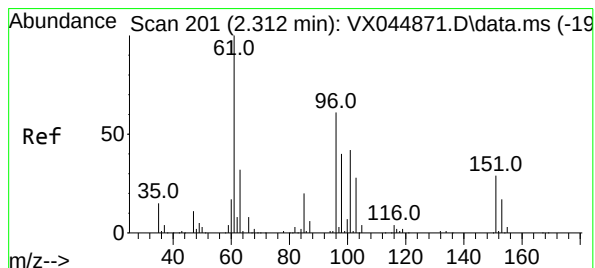
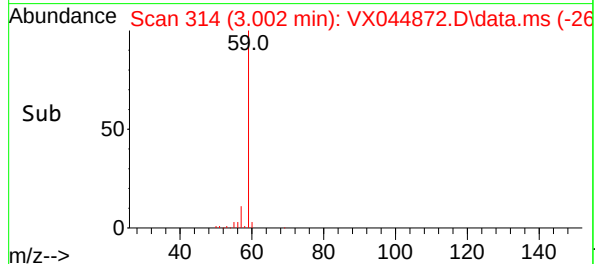
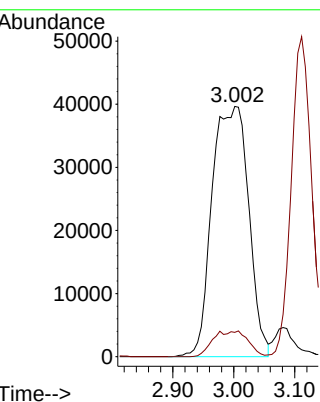
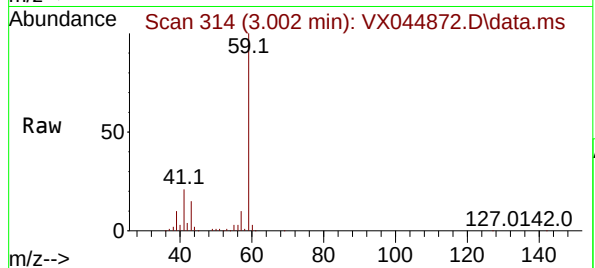
57 0.0 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#12

1,1-Dichloroethene

Concen: 98.004 ug/l

RT: 2.307 min Scan# 200

Delta R.T. -0.006 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

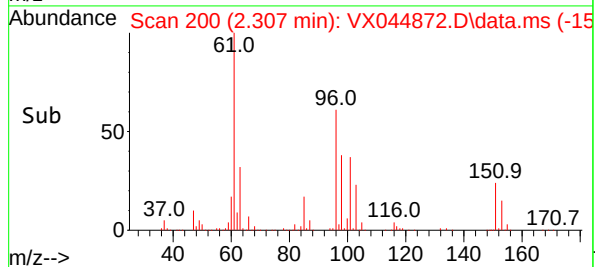
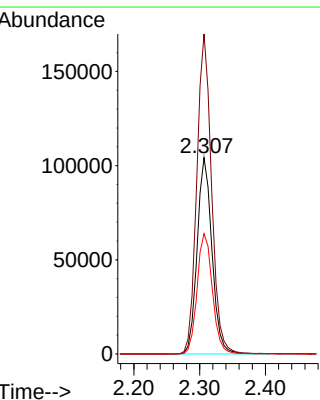
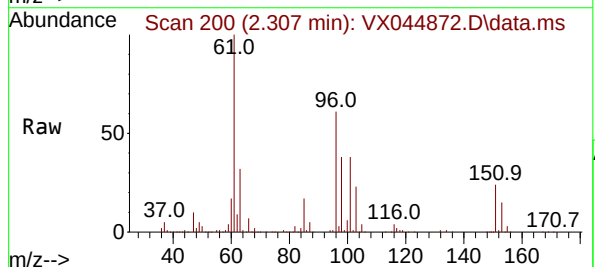
Tgt Ion: 96 Resp: 163593

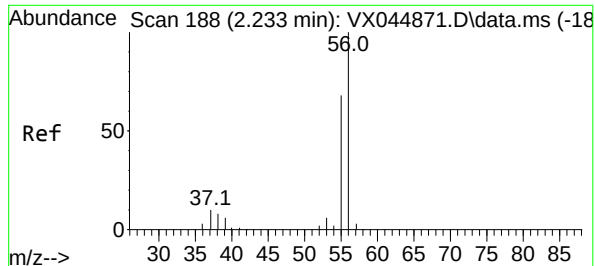
Ion Ratio Lower Upper

96 100

61 162.9 130.2 195.4

98 61.3 52.2 78.4





#13

Acrolein

Concen: 497.628 ug/l

RT: 2.233 min Scan# 188

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 180570

Ion Ratio Lower Upper

56 100

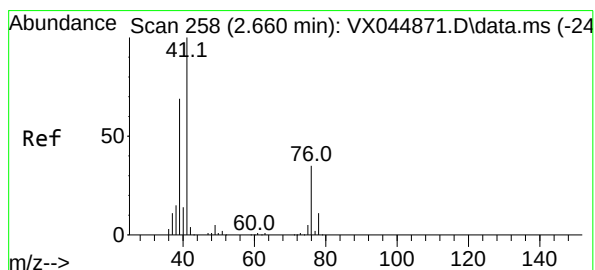
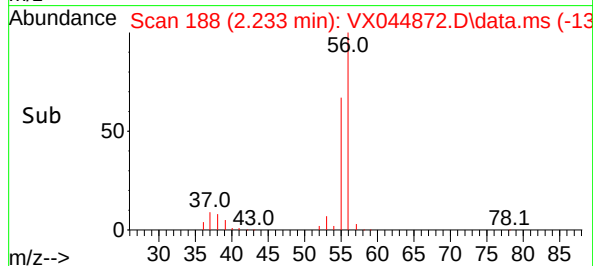
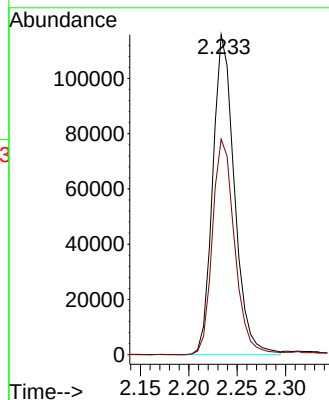
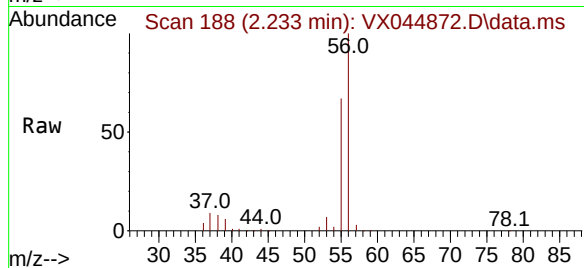
55 68.9 55.7 83.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#14

Allyl chloride

Concen: 98.624 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.006 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

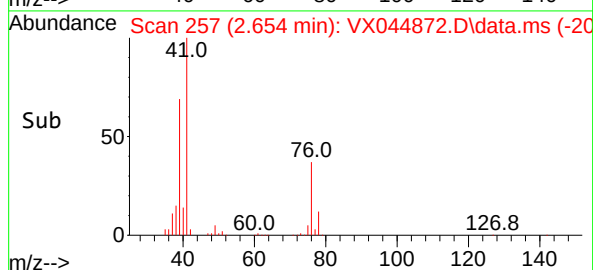
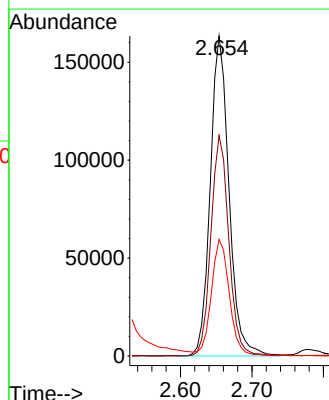
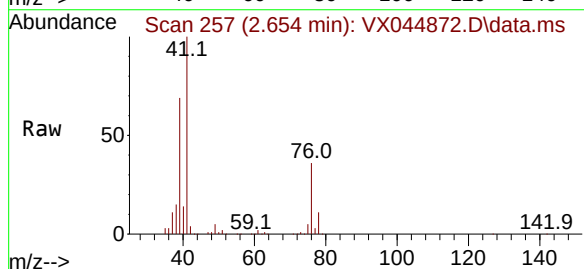
Tgt Ion: 41 Resp: 297526

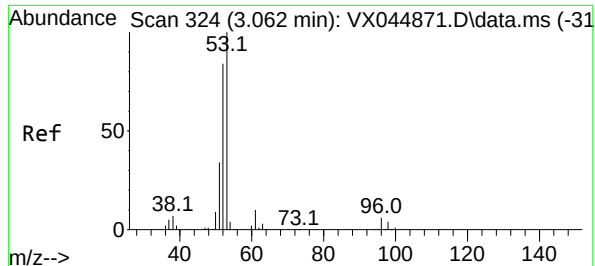
Ion Ratio Lower Upper

41 100

39 65.6 51.4 77.2

76 34.9 27.0 40.4





#15

Acrylonitrile

Concen: 497.173 ug/l

RT: 3.063 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 53 Resp: 46685

Ion Ratio Lower Upper

53 100

52 82.4 65.0 97.6

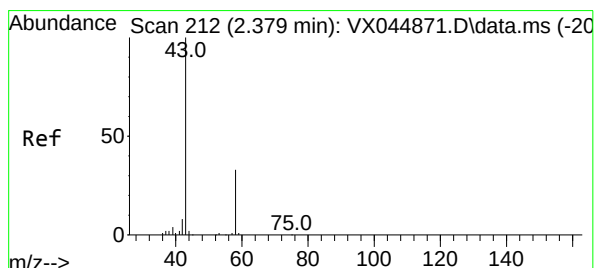
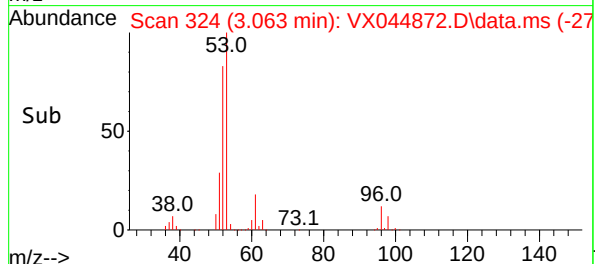
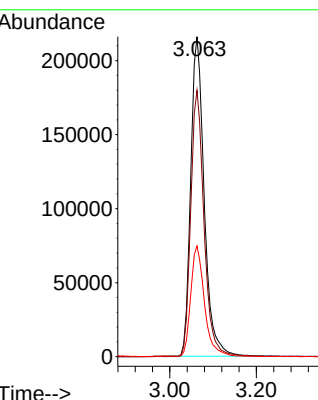
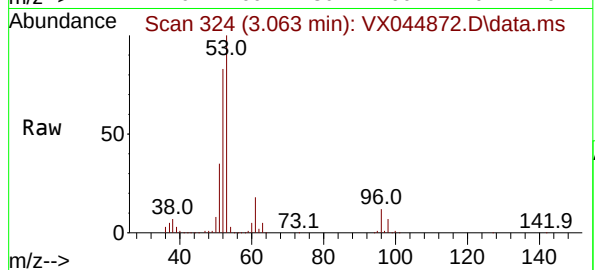
51 34.9 28.0 42.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#16

Acetone

Concen: 485.125 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.007 min

Lab File: VX044872.D

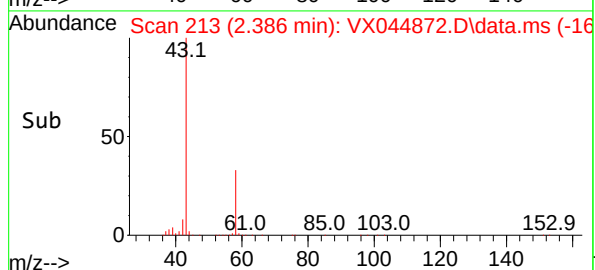
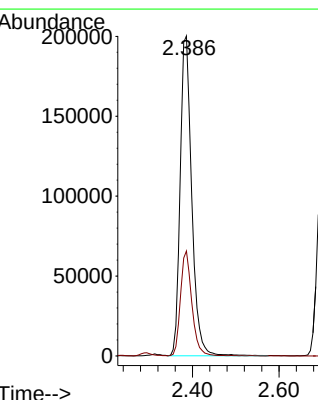
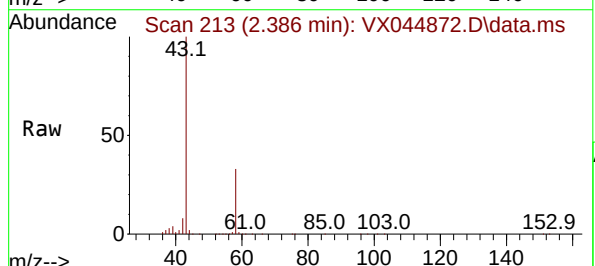
Acq: 10 Feb 2025 12:05

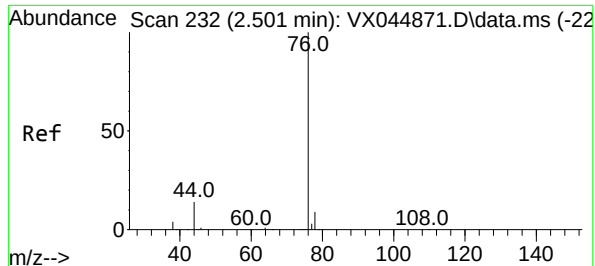
Tgt Ion: 43 Resp: 369720

Ion Ratio Lower Upper

43 100

58 32.8 26.5 39.7





#17

Carbon Disulfide

Concen: 101.216 ug/l

RT: 2.502 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 76 Resp: 463308

Ion Ratio Lower Upper

76 100

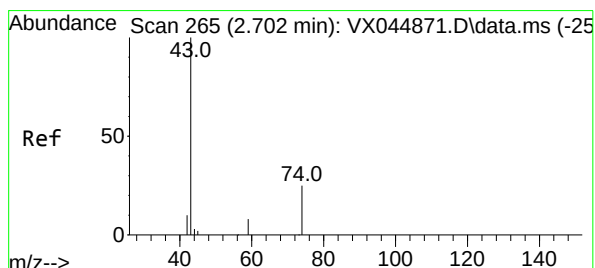
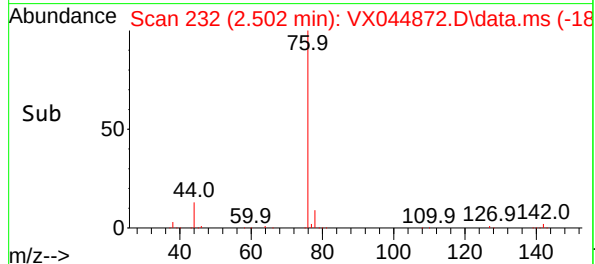
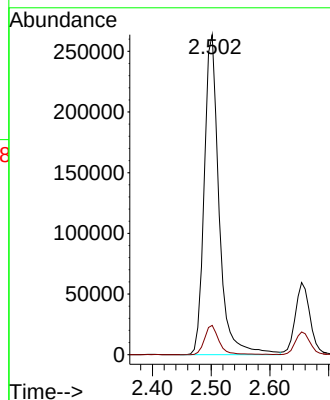
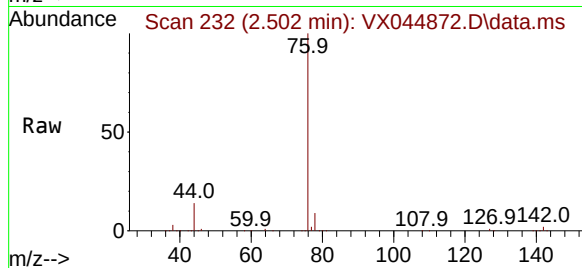
78 9.1 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#18

Methyl Acetate

Concen: 99.249 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX044872.D

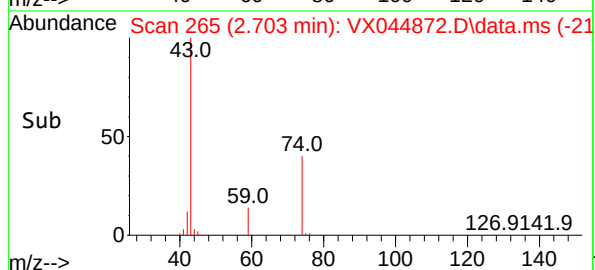
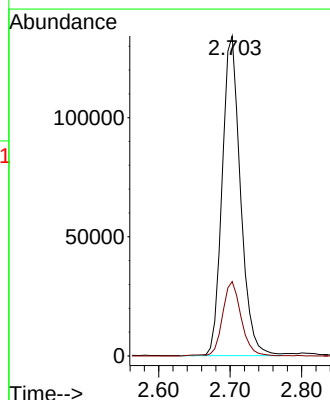
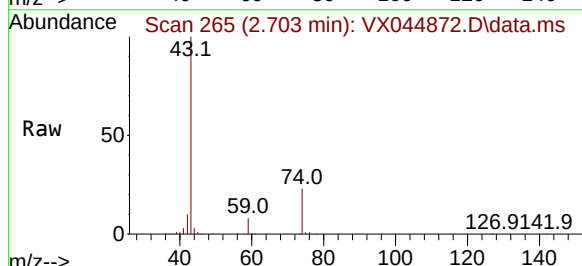
Acq: 10 Feb 2025 12:05

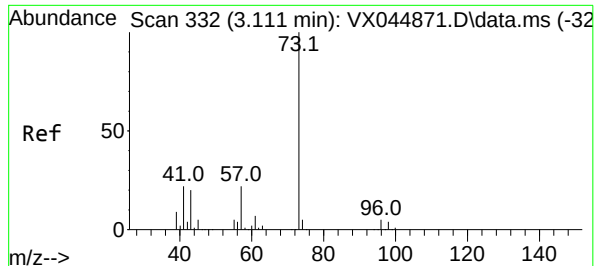
Tgt Ion: 43 Resp: 238689

Ion Ratio Lower Upper

43 100

74 23.8 18.9 28.3





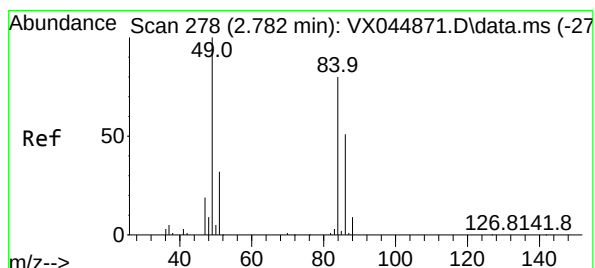
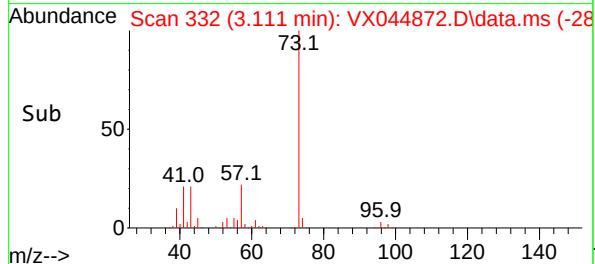
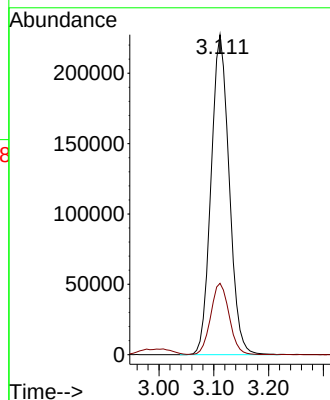
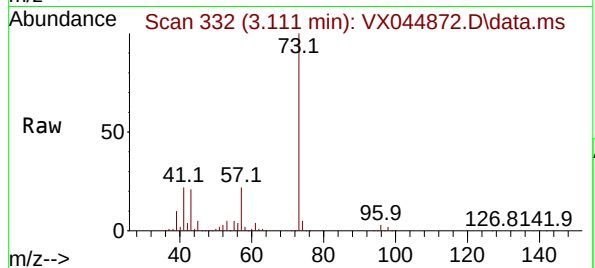
#19
Methyl tert-butyl Ether
Concen: 98.098 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 52100
Ion Ratio Lower Upper
73 100
57 22.3 17.9 26.9

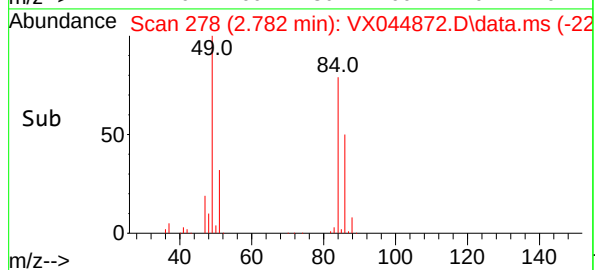
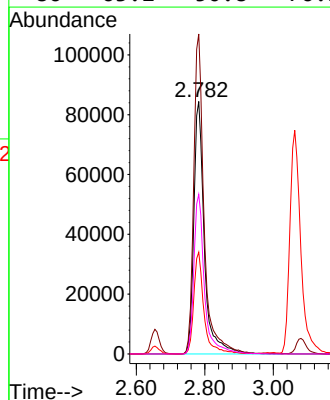
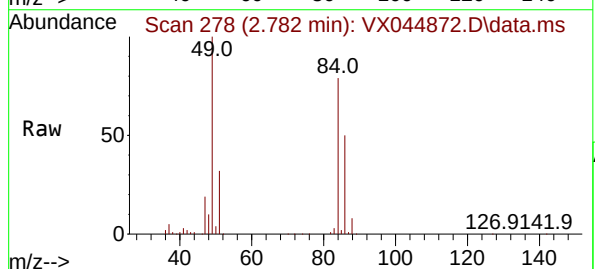
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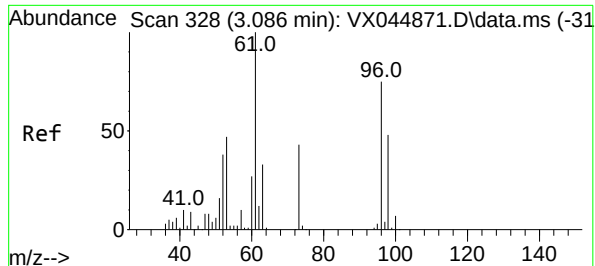
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#20
Methylene Chloride
Concen: 96.490 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

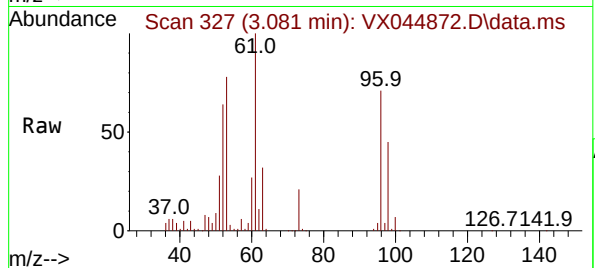
Tgt Ion: 84 Resp: 180120
Ion Ratio Lower Upper
84 100
49 126.7 100.1 150.1
51 40.3 31.7 47.5
86 63.2 50.8 76.2





#21
trans-1,2-Dichloroethene
Concen: 99.864 ug/l
RT: 3.081 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

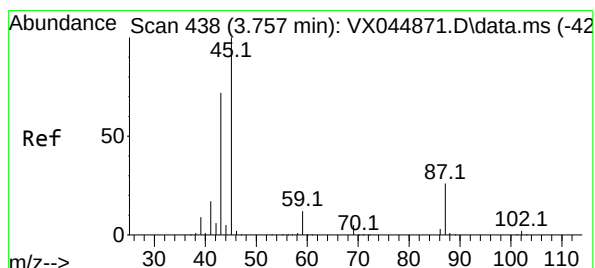
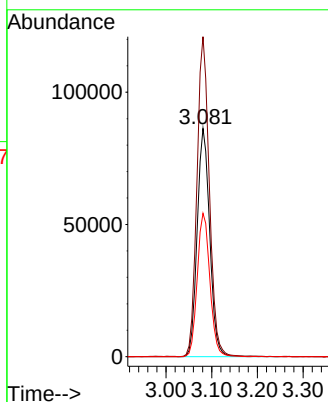
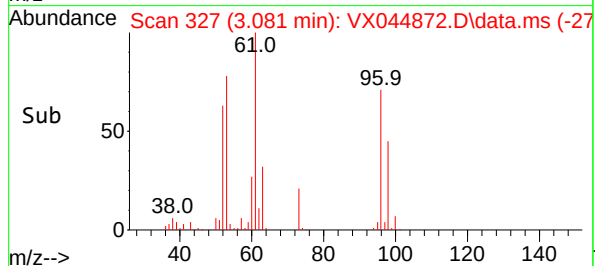
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 96 Resp: 16406
Ion Ratio Lower Upper
96 100
61 140.2 106.0 159.0
98 62.8 50.6 76.0

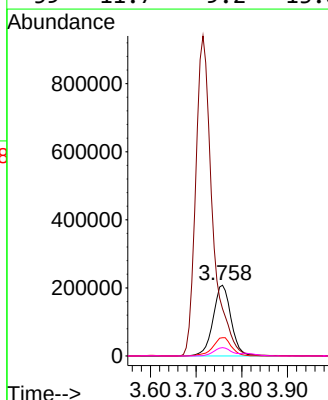
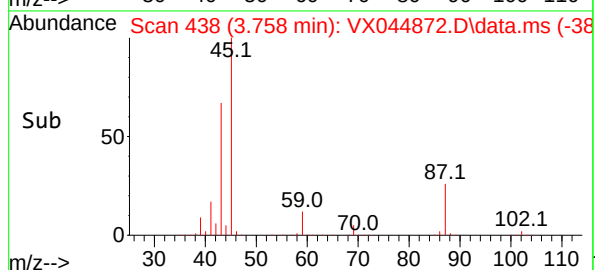
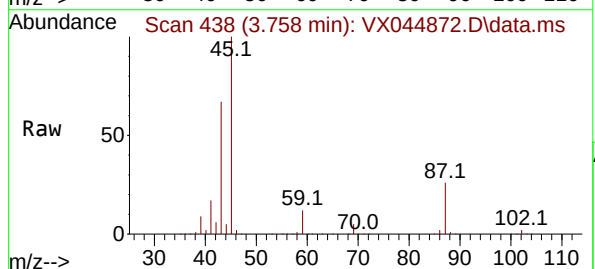
Manual Integrations
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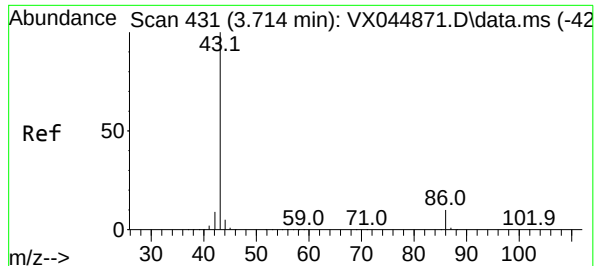
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#22
Diisopropyl ether
Concen: 99.157 ug/l
RT: 3.758 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 45 Resp: 565927
Ion Ratio Lower Upper
45 100
43 66.7 58.0 87.0
87 25.7 20.7 31.1
59 11.7 9.2 13.8





#23

Vinyl Acetate

Concen: 513.051 ug/l

RT: 3.715 min Scan# 411

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 2387200

Ion Ratio Lower Upper

43 100

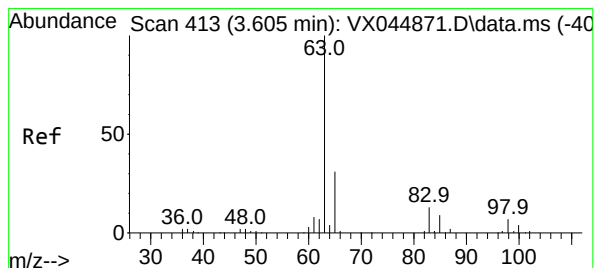
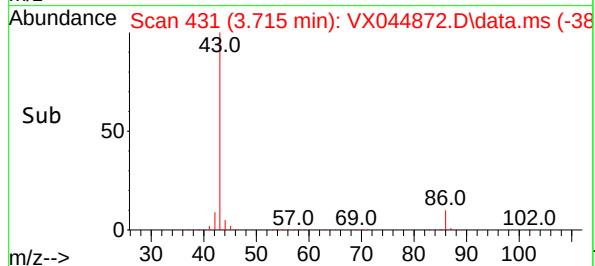
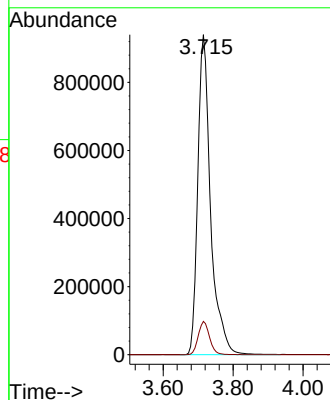
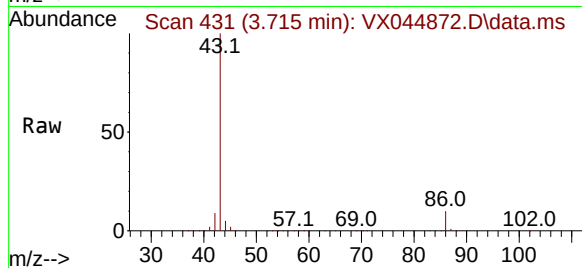
86 10.4 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#24

1,1-Dichloroethane

Concen: 98.064 ug/l

RT: 3.599 min Scan# 412

Delta R.T. -0.006 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

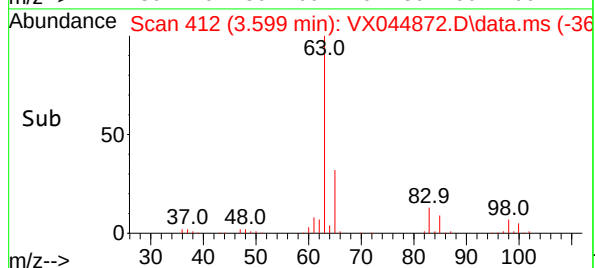
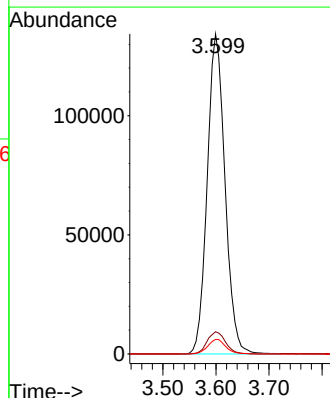
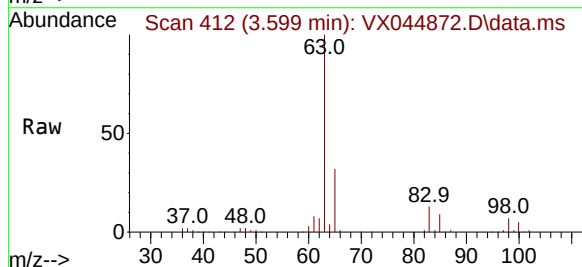
Tgt Ion: 63 Resp: 313164

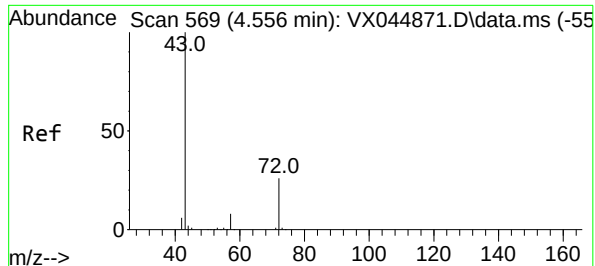
Ion Ratio Lower Upper

63 100

98 7.0 3.3 9.9

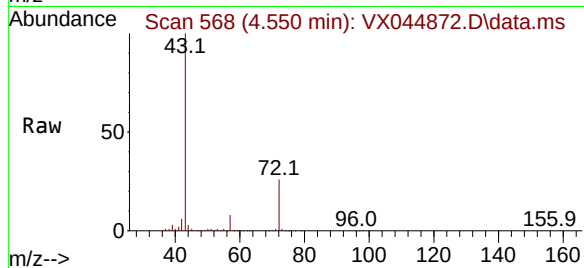
100 4.5 2.1 6.5





#25
2-Butanone
Concen: 498.801 ug/l
RT: 4.550 min Scan# 50
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

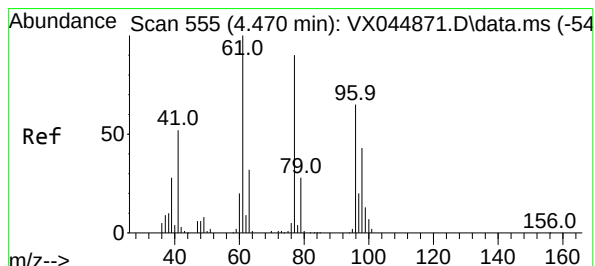
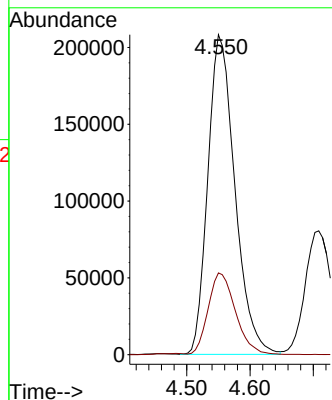
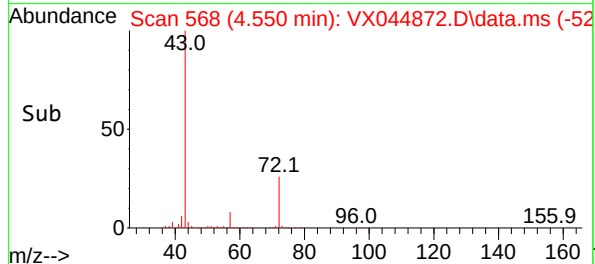
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 43 Resp: 61728
Ion Ratio Lower Upper
43 100
72 25.4 21.2 31.8

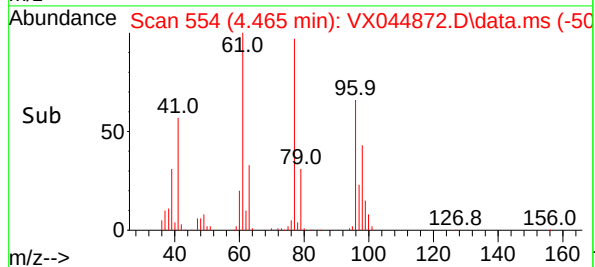
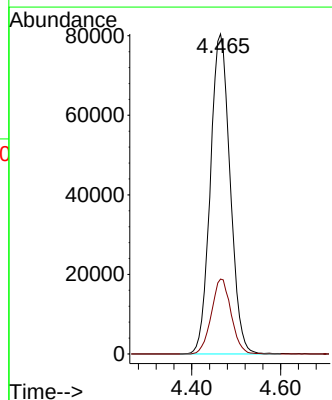
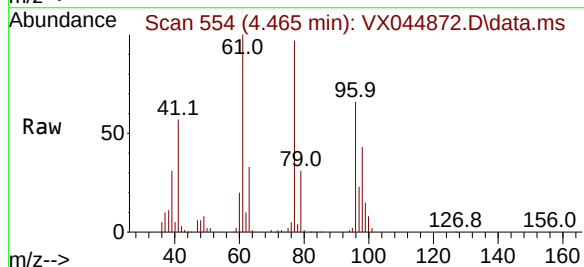
Manual Integrations
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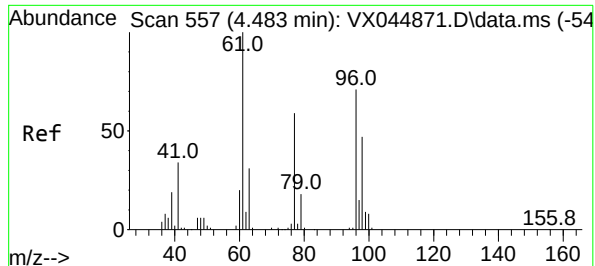
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#26
2,2-Dichloropropane
Concen: 98.053 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 77 Resp: 248324
Ion Ratio Lower Upper
77 100
97 23.3 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 99.513 ug/l

RT: 4.477 min Scan# 557

Delta R.T. -0.006 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 96 Resp: 19638

Ion Ratio Lower Upper

96 100

61 145.1 0.0 294.0

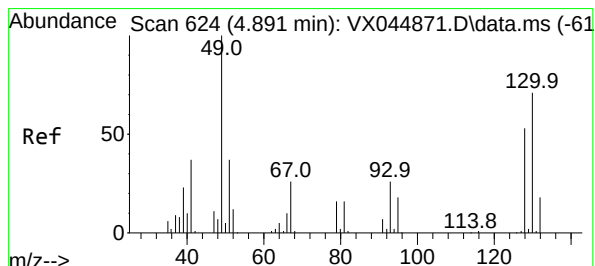
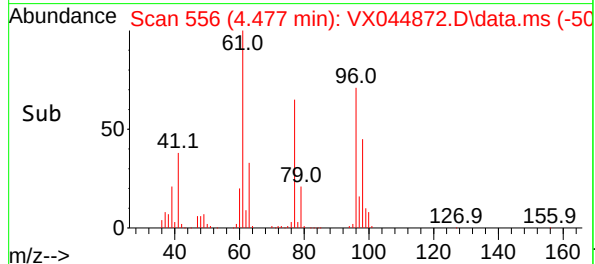
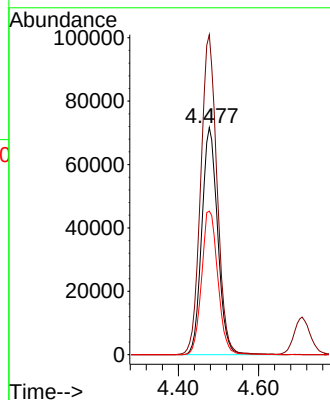
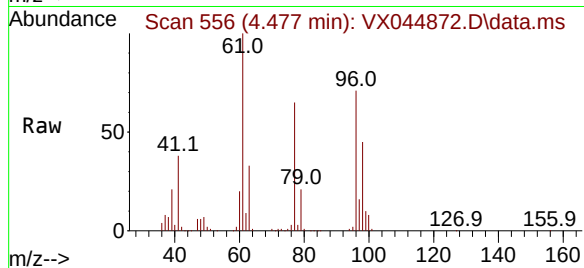
98 64.6 0.0 131.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#28

Bromochloromethane

Concen: 96.524 ug/l

RT: 4.885 min Scan# 623

Delta R.T. -0.006 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

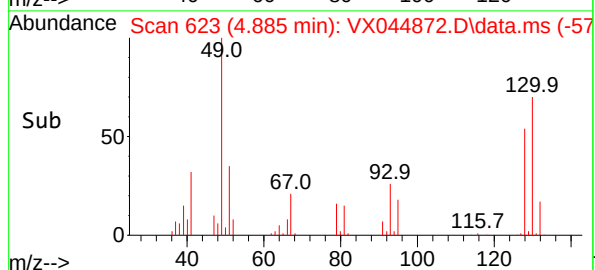
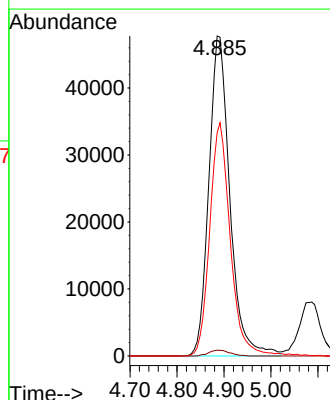
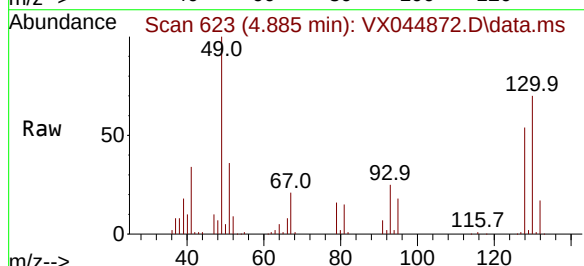
Tgt Ion: 49 Resp: 148137

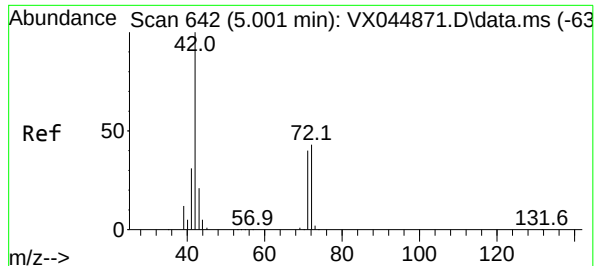
Ion Ratio Lower Upper

49 100

129 1.8 0.0 3.6

130 71.1 56.7 85.1





#29

Tetrahydrofuran

Concen: 493.104 ug/l

RT: 4.995 min Scan# 64

Delta R.T. -0.006 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 42 Resp: 405208

Ion Ratio Lower Upper

42 100

72 43.9 35.0 52.4

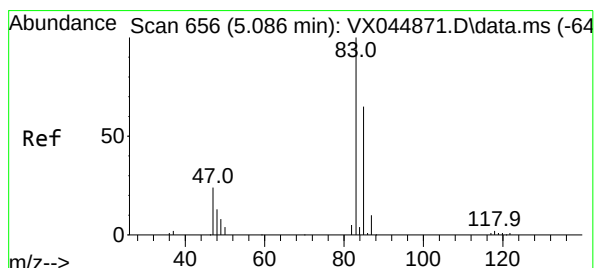
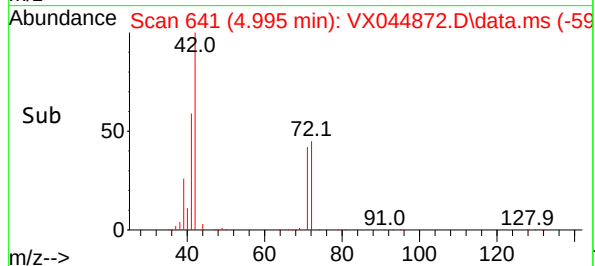
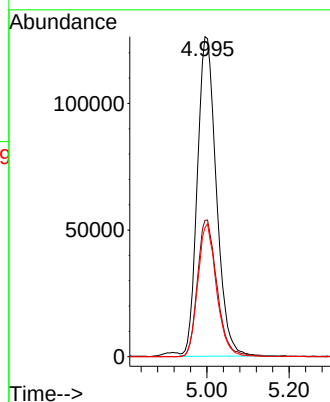
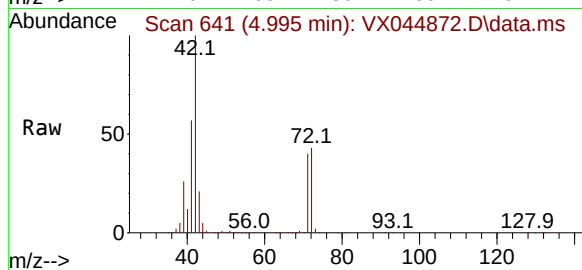
71 40.8 32.6 48.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#30

Chloroform

Concen: 96.445 ug/l

RT: 5.087 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX044872.D

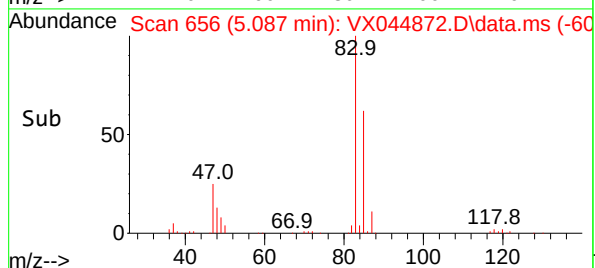
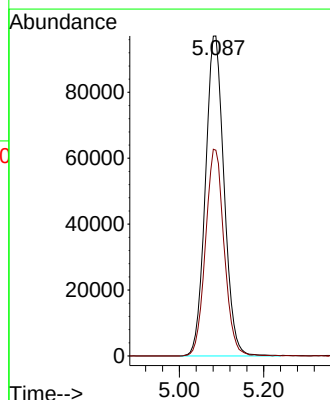
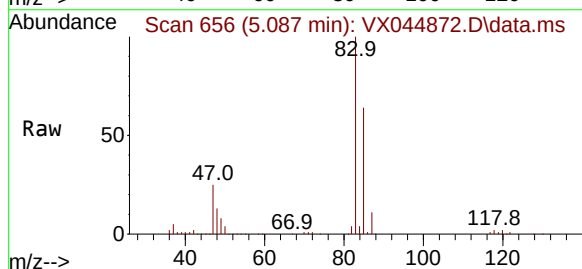
Acq: 10 Feb 2025 12:05

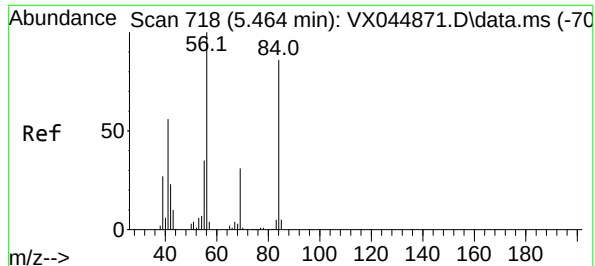
Tgt Ion: 83 Resp: 298690

Ion Ratio Lower Upper

83 100

85 64.3 52.1 78.1





#31

Cyclohexane

Concen: 97.426 ug/l

RT: 5.458 min Scan# 717

Delta R.T. -0.006 min

Lab File: VX044872.D

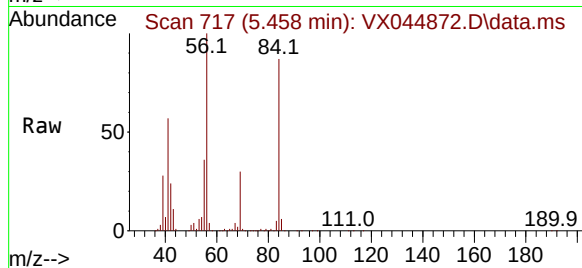
Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100



Tgt Ion: 56 Resp: 286830

Ion Ratio Lower Upper

56 100

69 30.0 24.4 36.6

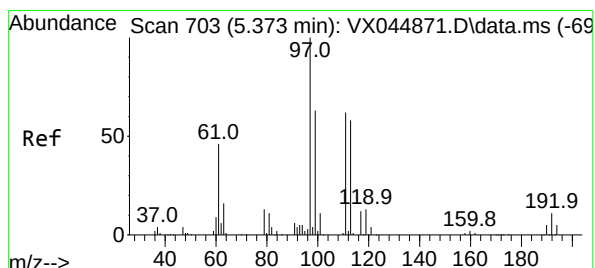
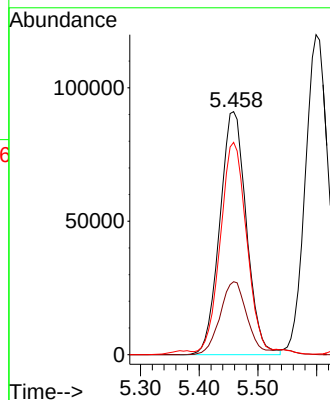
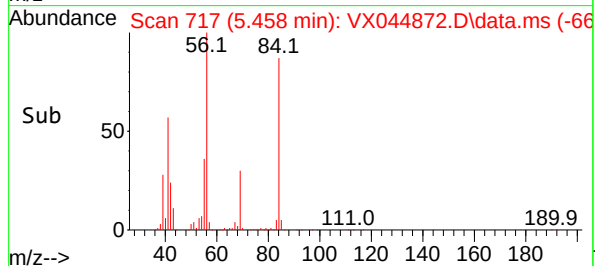
84 85.7 69.0 103.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#32

1,1,1-Trichloroethane

Concen: 97.050 ug/l

RT: 5.373 min Scan# 703

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

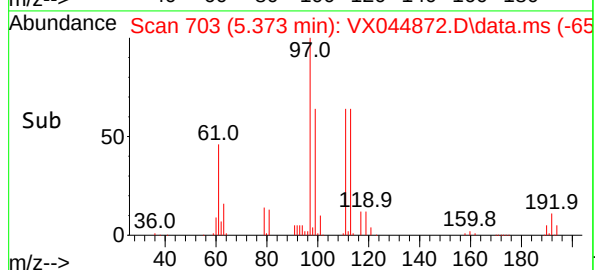
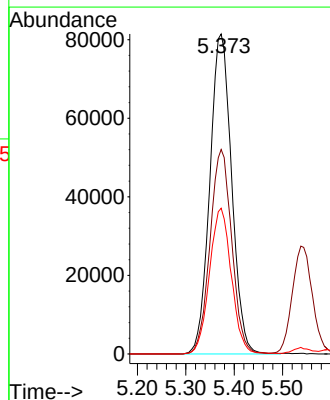
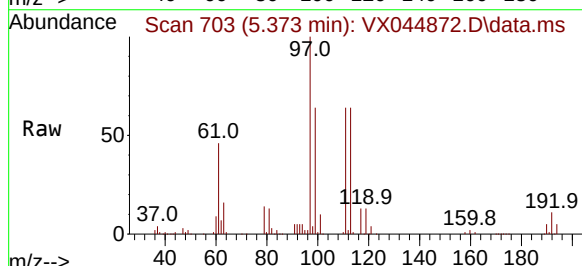
Tgt Ion: 97 Resp: 254941

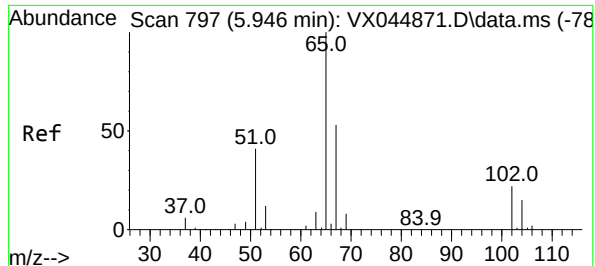
Ion Ratio Lower Upper

97 100

99 63.8 51.0 76.6

61 45.8 36.6 55.0





#33

1,2-Dichloroethane-d4

Concen: 96.580 ug/l

RT: 5.946 min Scan# 797

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 65 Resp: 18309

Ion Ratio Lower Upper

65 100

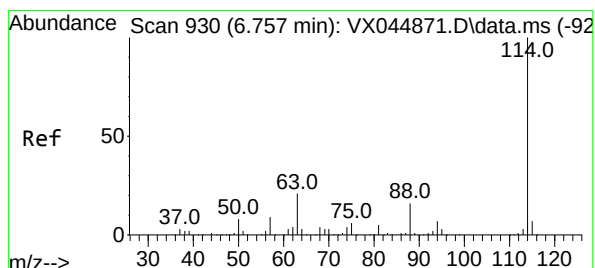
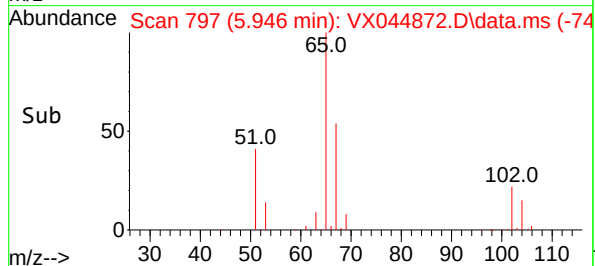
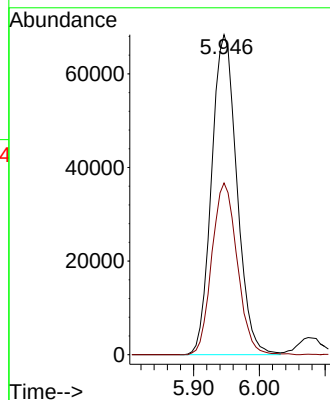
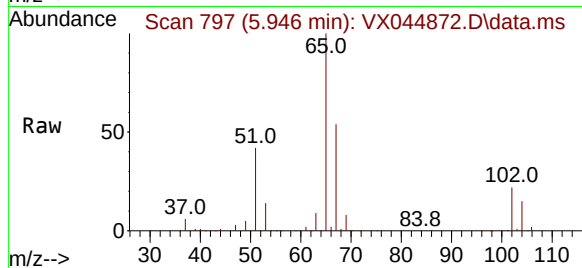
67 53.8 0.0 108.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. -0.006 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

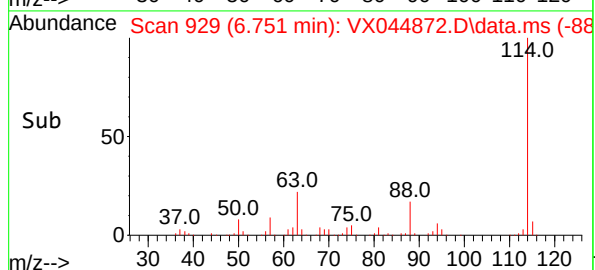
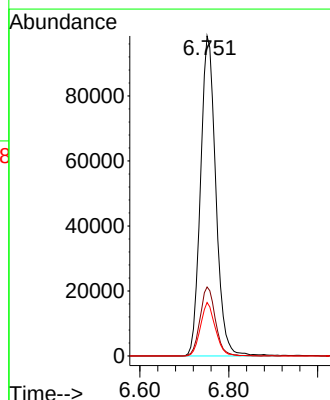
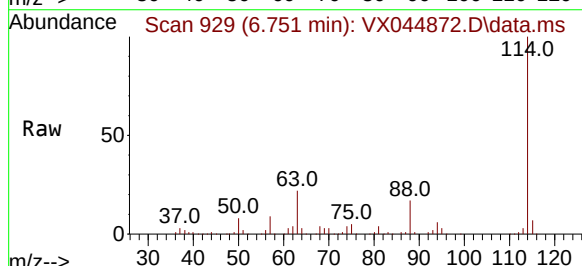
Tgt Ion:114 Resp: 236372

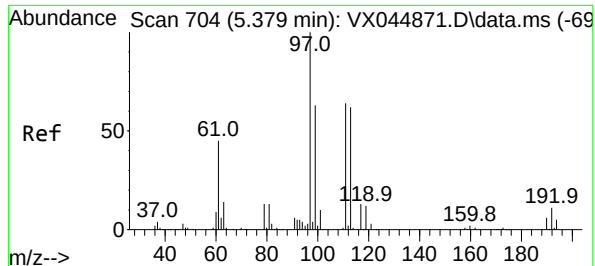
Ion Ratio Lower Upper

114 100

63 21.6 0.0 42.4

88 16.7 0.0 31.4





#35

Dibromofluoromethane

Concen: 98.404 ug/l

RT: 5.373 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:113 Resp: 151228

Ion Ratio Lower Upper

113 100

111 101.6 83.5 125.3

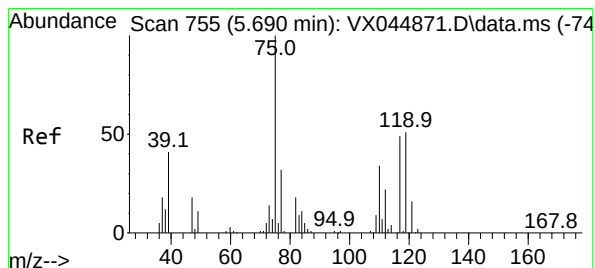
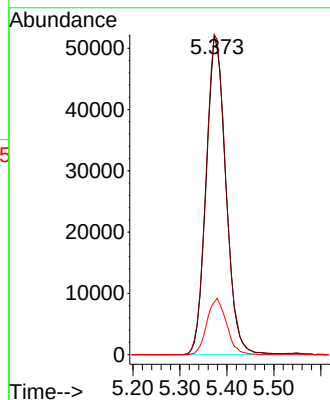
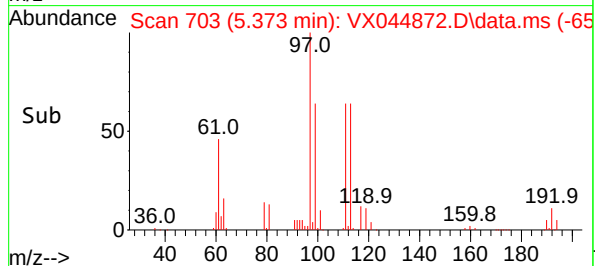
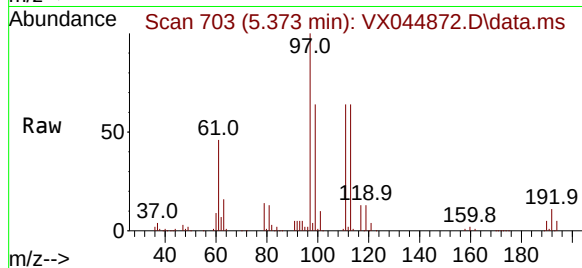
192 17.6 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#36

1,1-Dichloropropene

Concen: 97.422 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

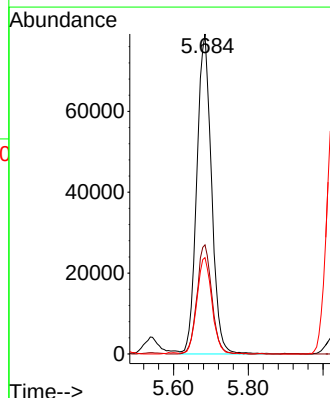
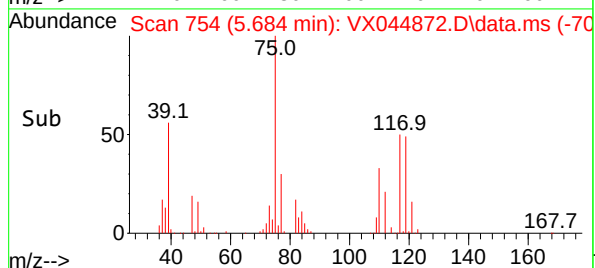
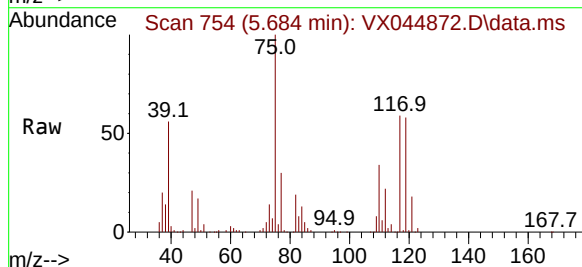
Tgt Ion: 75 Resp: 216005

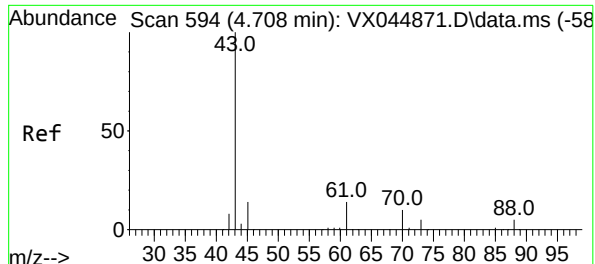
Ion Ratio Lower Upper

75 100

110 34.4 17.2 51.6

77 30.9 24.6 37.0





#37

Ethyl Acetate

Concen: 99.005 ug/l

RT: 4.709 min Scan# 594

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 244164

Ion Ratio Lower Upper

43 100

61 14.0 11.0 16.4

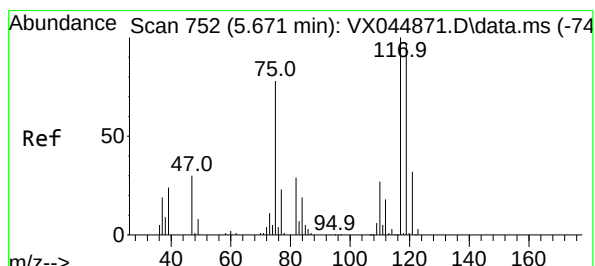
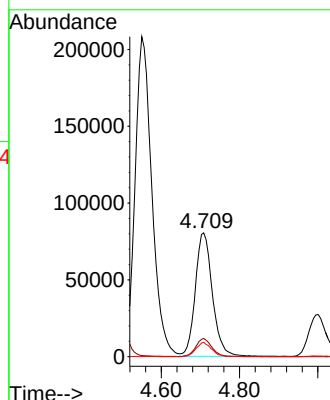
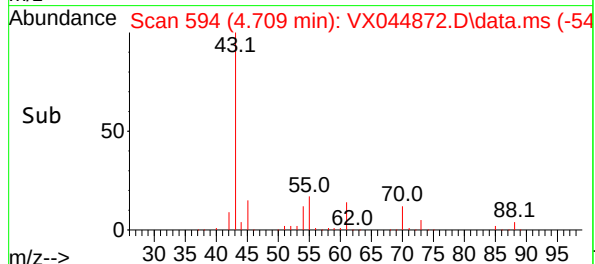
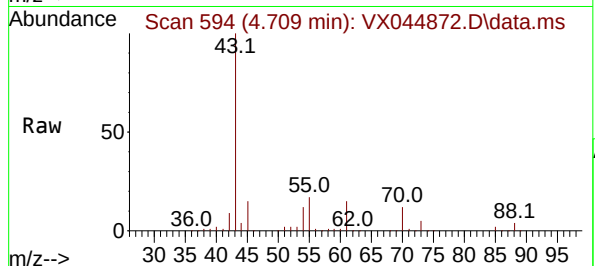
70 10.6 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#38

Carbon Tetrachloride

Concen: 96.828 ug/l

RT: 5.666 min Scan# 751

Delta R.T. -0.006 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

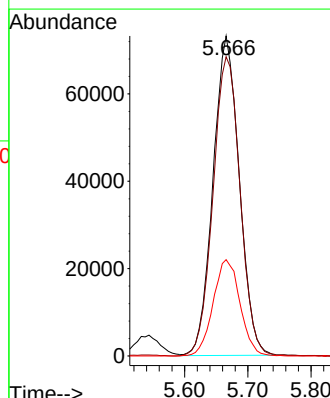
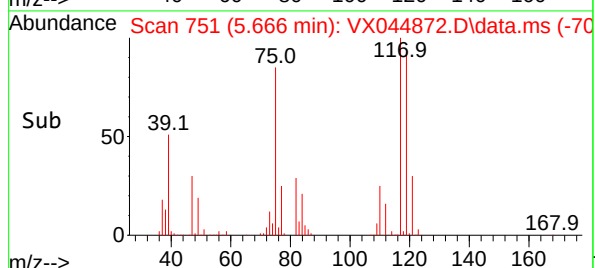
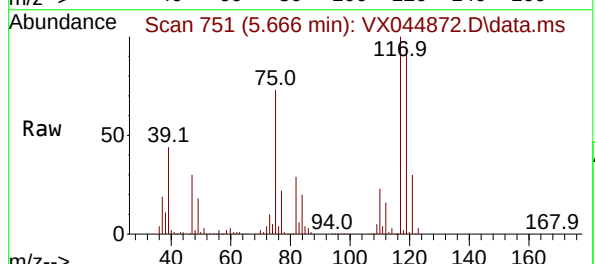
Tgt Ion:117 Resp: 210381

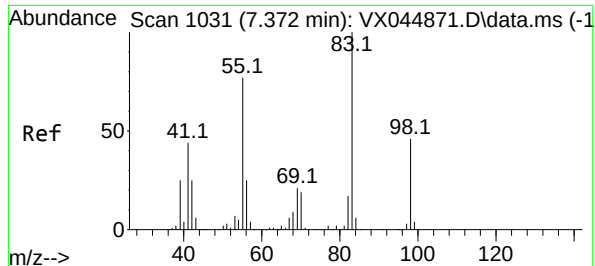
Ion Ratio Lower Upper

117 100

119 93.6 77.5 116.3

121 30.2 25.6 38.4





#39

Methylcyclohexane

Concen: 104.554 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 299700

Ion Ratio Lower Upper

83 100

55 78.5 61.3 91.9

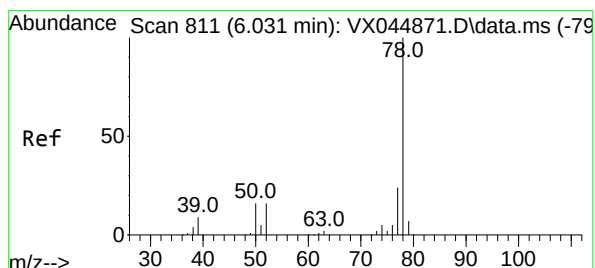
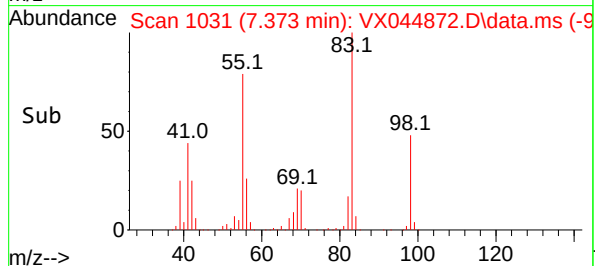
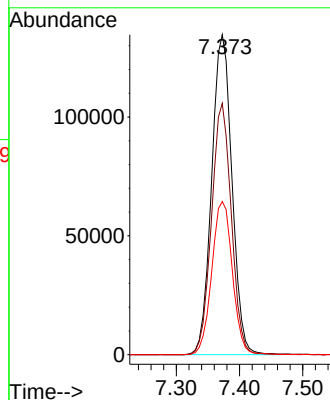
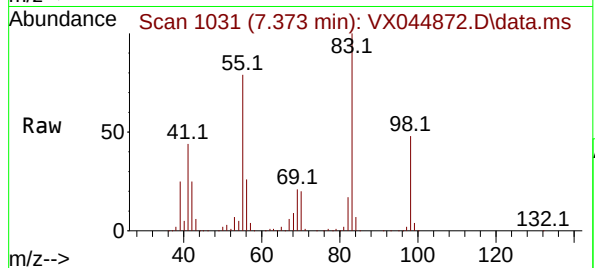
98 47.8 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#40

Benzene

Concen: 97.576 ug/l

RT: 6.025 min Scan# 810

Delta R.T. -0.006 min

Lab File: VX044872.D

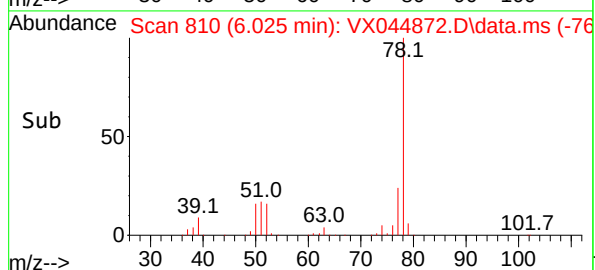
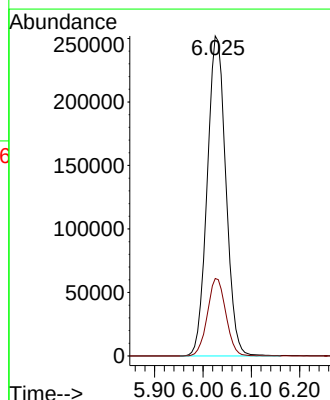
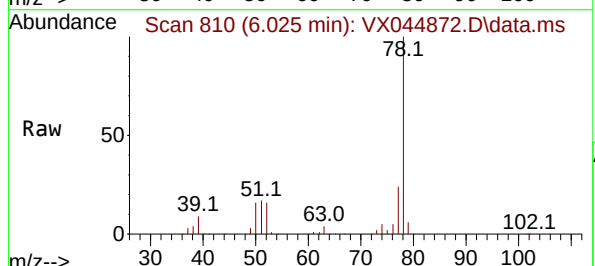
Acq: 10 Feb 2025 12:05

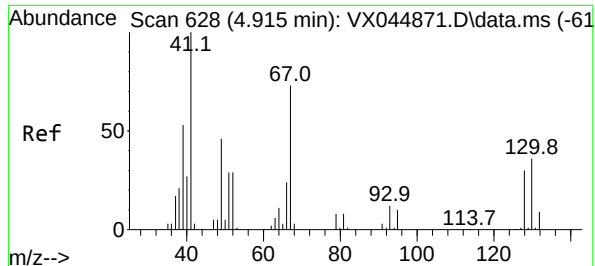
Tgt Ion: 78 Resp: 675556

Ion Ratio Lower Upper

78 100

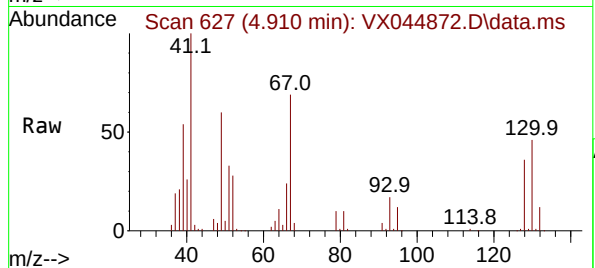
77 24.2 19.0 28.6





#41
Methacrylonitrile
Concen: 102.745 ug/l
RT: 4.910 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

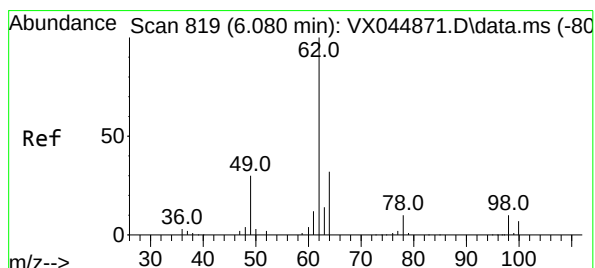
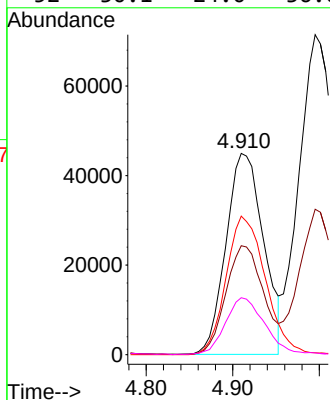
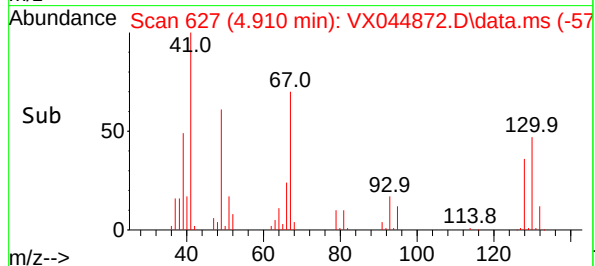
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 41 Resp: 135629
Ion Ratio Lower Upper
41 100
39 53.9 43.1 64.7
67 72.4 57.0 85.6
52 30.1 24.0 36.0

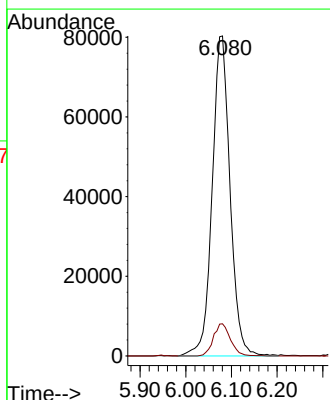
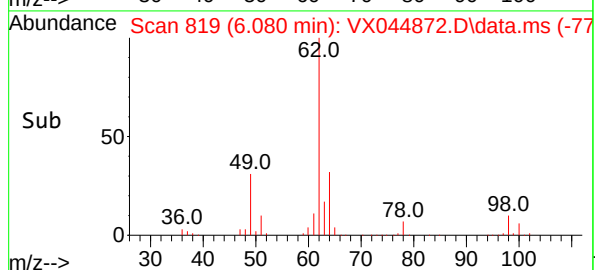
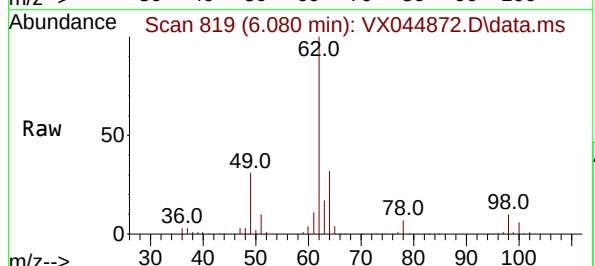
Manual Integrations
APPROVED

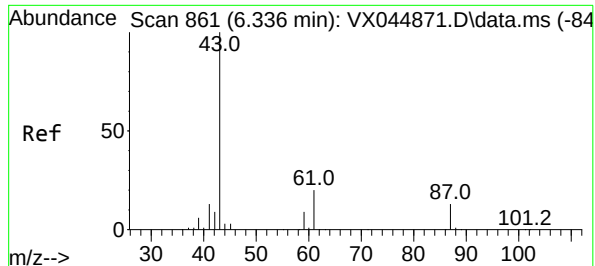
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#42
1,2-Dichloroethane
Concen: 98.875 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 62 Resp: 218174
Ion Ratio Lower Upper
62 100
98 9.6 0.0 19.4





#43

Isopropyl Acetate

Concen: 101.818 ug/l

RT: 6.336 min Scan# 80

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 405489

Ion Ratio Lower Upper

43 100

61 19.9 15.8 23.8

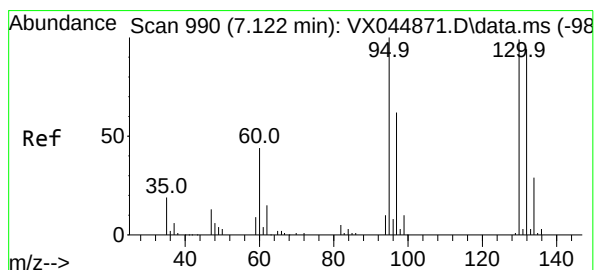
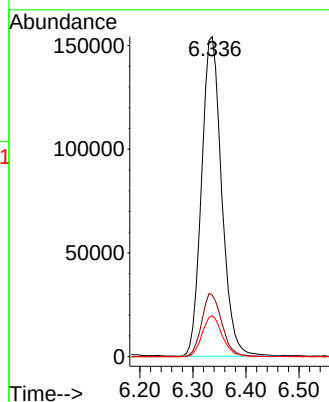
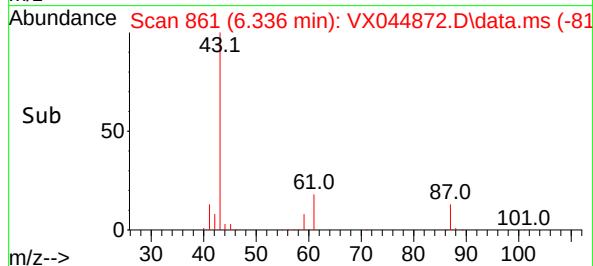
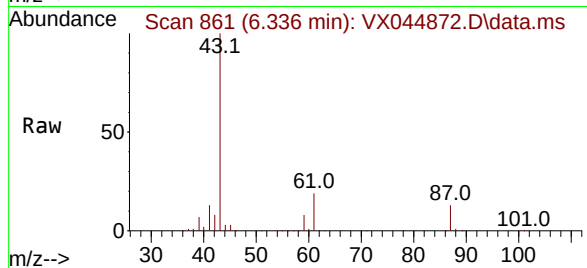
87 12.8 10.0 15.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#44

Trichloroethene

Concen: 99.103 ug/l

RT: 7.117 min Scan# 989

Delta R.T. -0.006 min

Lab File: VX044872.D

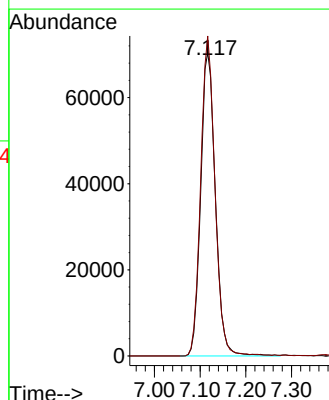
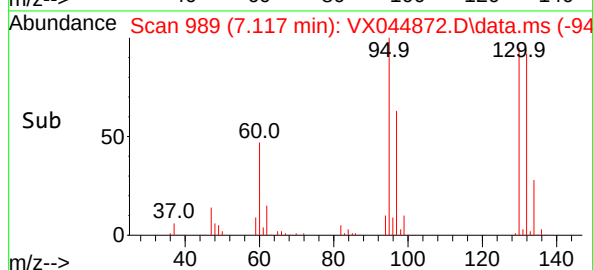
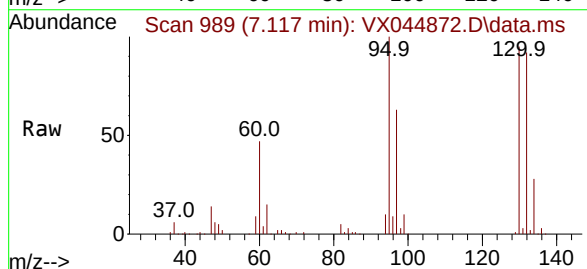
Acq: 10 Feb 2025 12:05

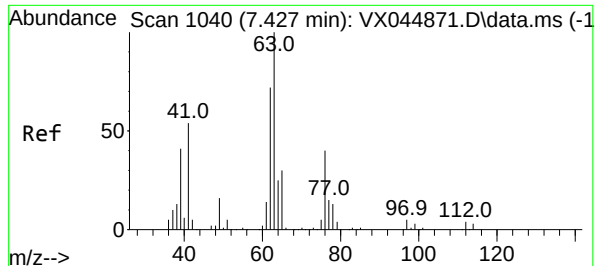
Tgt Ion:130 Resp: 156832

Ion Ratio Lower Upper

130 100

95 105.4 0.0 202.4





#45

1,2-Dichloropropane

Concen: 98.893 ug/l

RT: 7.422 min Scan# 1039

Delta R.T. -0.006 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 63 Resp: 17033

Ion Ratio Lower Upper

63 100

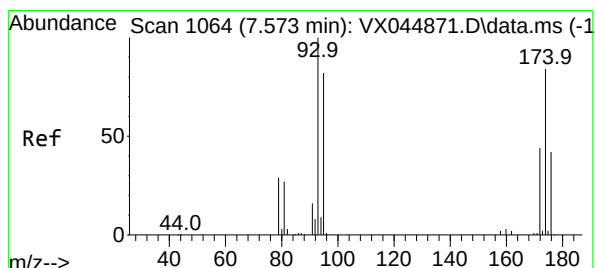
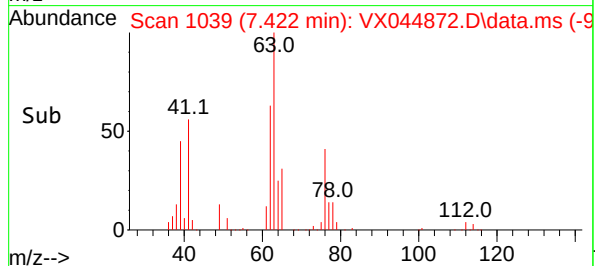
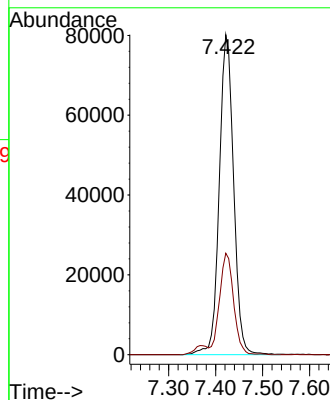
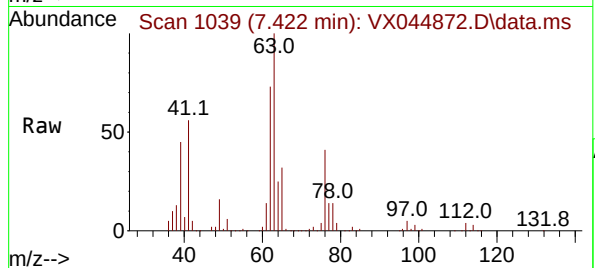
65 31.7 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#46

Dibromomethane

Concen: 99.747 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

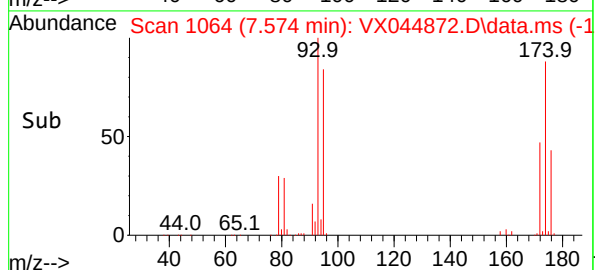
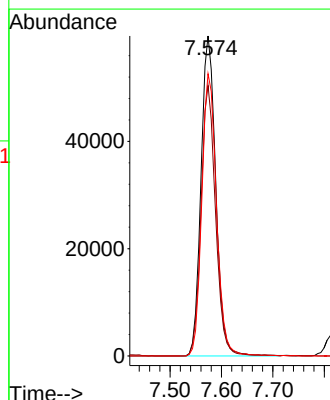
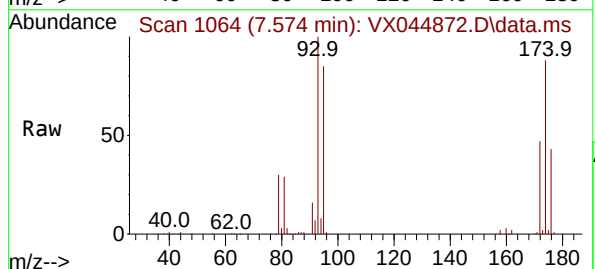
Tgt Ion: 93 Resp: 119149

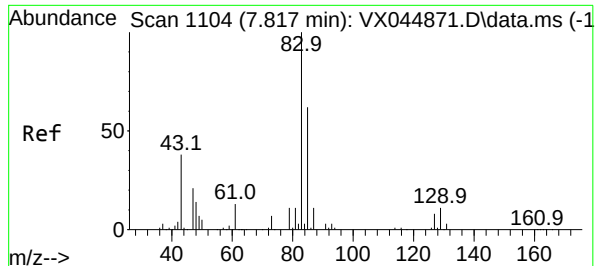
Ion Ratio Lower Upper

93 100

95 82.7 66.2 99.4

174 88.1 69.9 104.9





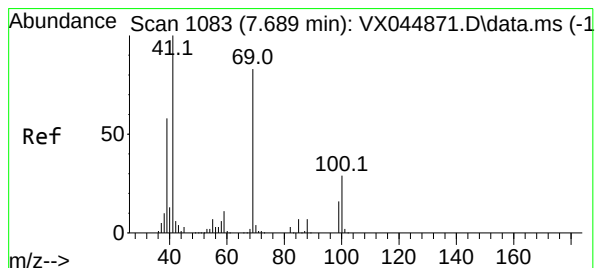
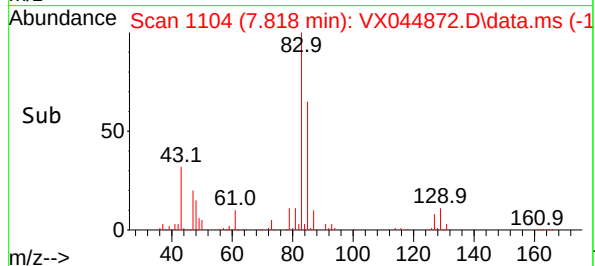
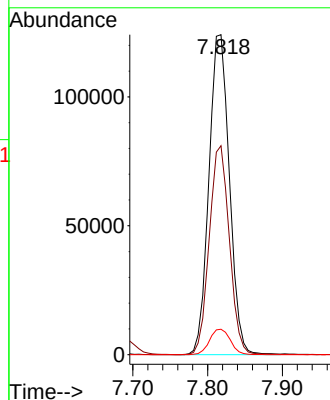
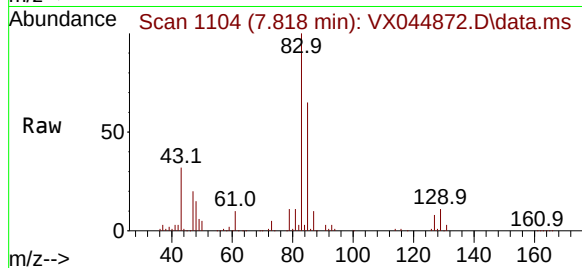
#47
Bromodichloromethane
Concen: 102.254 ug/l
RT: 7.818 min Scan# 1104
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 236500
Ion Ratio Lower Upper
83 100
85 65.3 50.0 75.0
127 8.0 6.4 9.6

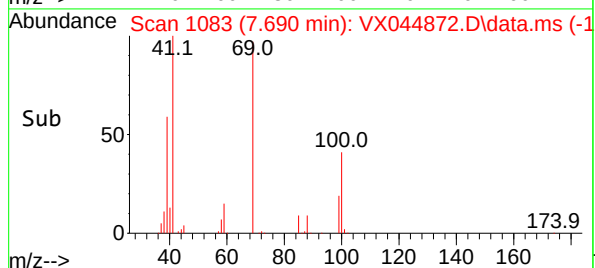
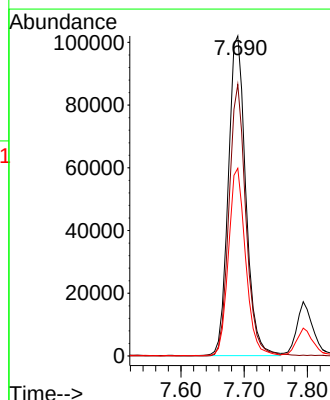
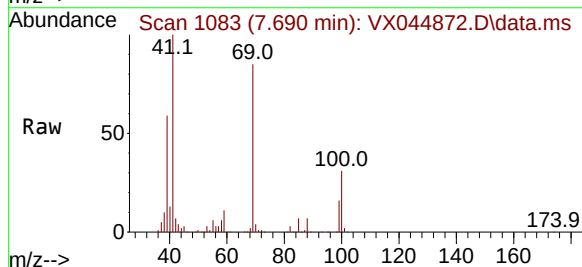
Manual Integrations
APPROVED

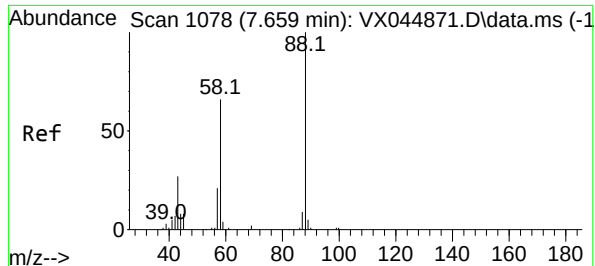
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#48
Methyl methacrylate
Concen: 104.321 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 41 Resp: 195892
Ion Ratio Lower Upper
41 100
69 82.1 65.8 98.8
39 57.3 46.4 69.6





#49

1,4-Dioxane

Concen: 1931.508 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 88 Resp: 77810

Ion Ratio Lower Upper

88 100

43 31.8 26.6 39.8

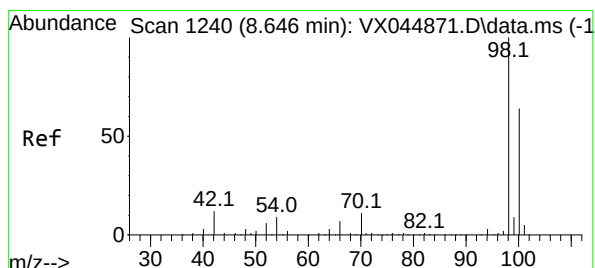
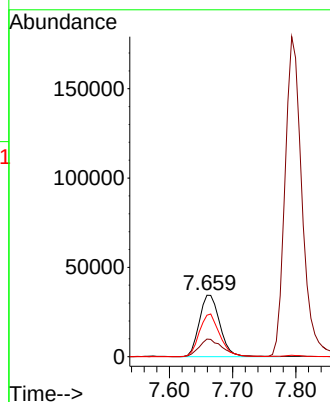
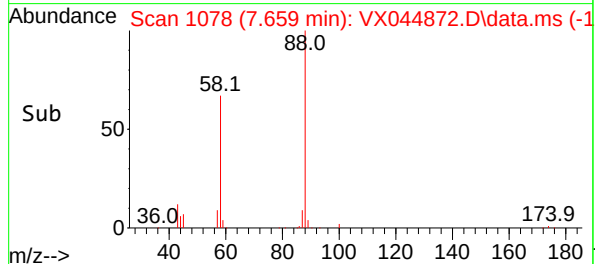
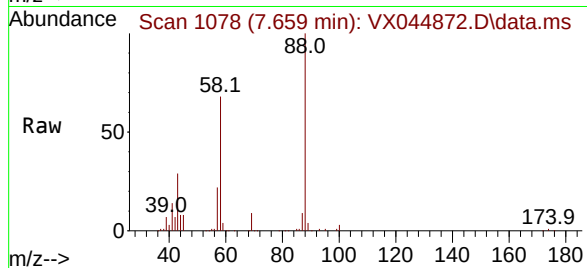
58 68.9 55.9 83.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#50

Toluene-d8

Concen: 98.253 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044872.D

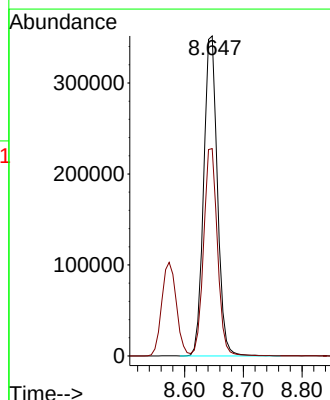
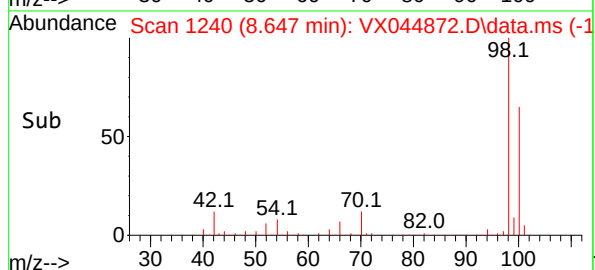
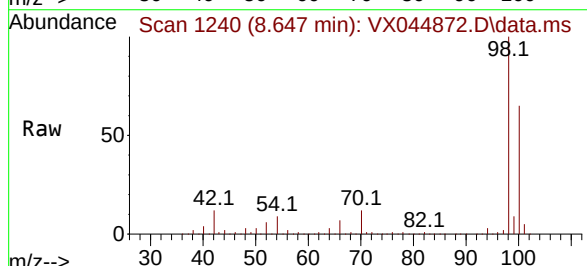
Acq: 10 Feb 2025 12:05

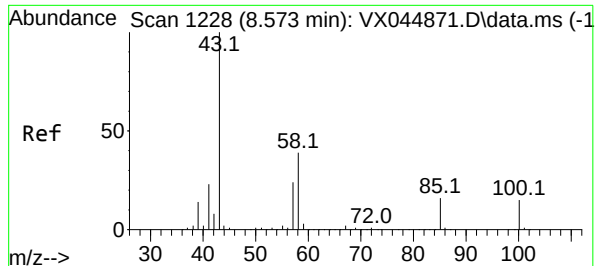
Tgt Ion: 98 Resp: 570976

Ion Ratio Lower Upper

98 100

100 65.2 52.7 79.1





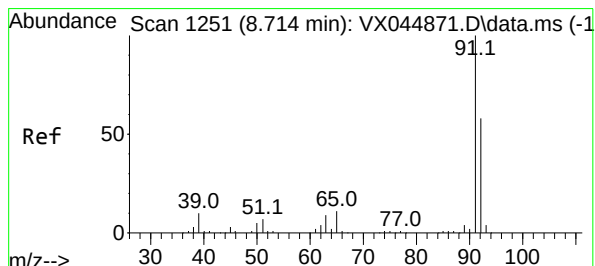
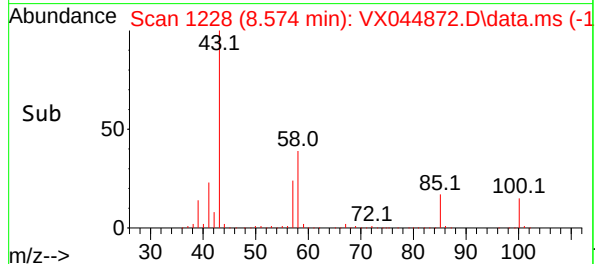
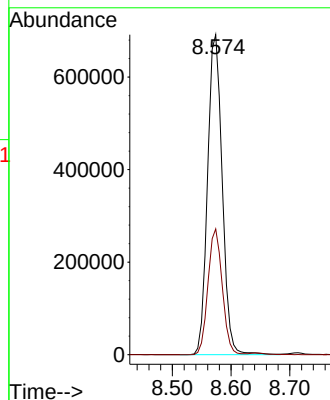
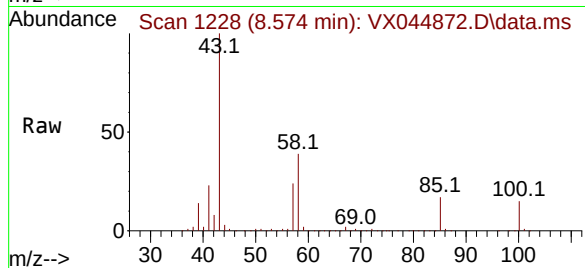
#51
4-Methyl-2-Pentanone
Concen: 494.353 ug/l
RT: 8.574 min Scan# 119688
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 119688
Ion Ratio Lower Upper
43 100
58 38.4 30.8 46.2

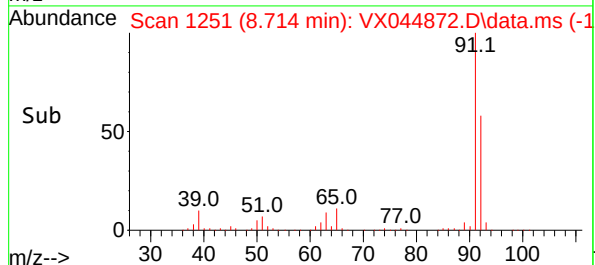
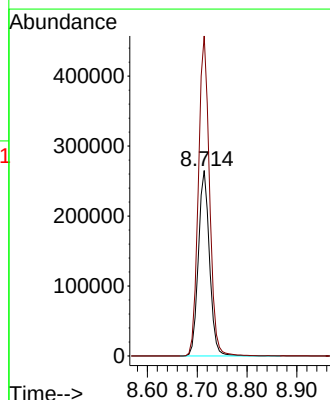
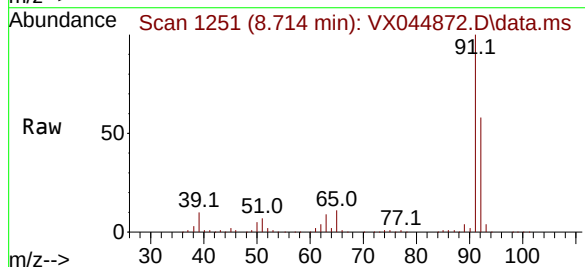
Manual Integrations
APPROVED

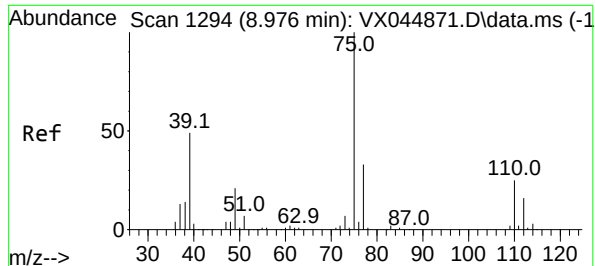
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#52
Toluene
Concen: 99.270 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 92 Resp: 409318
Ion Ratio Lower Upper
92 100
91 173.0 137.4 206.2





#53

t-1,3-Dichloropropene

Concen: 106.694 ug/l

RT: 8.970 min Scan# 1129

Delta R.T. -0.006 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 75 Resp: 249725

Ion Ratio Lower Upper

75 100

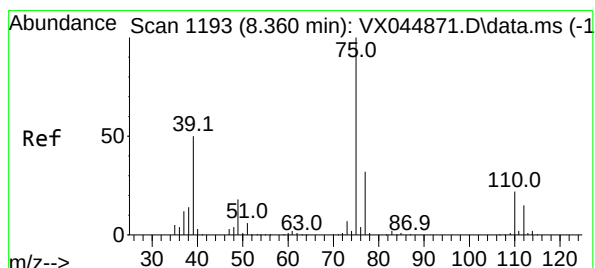
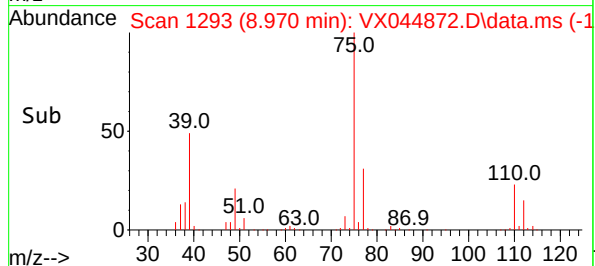
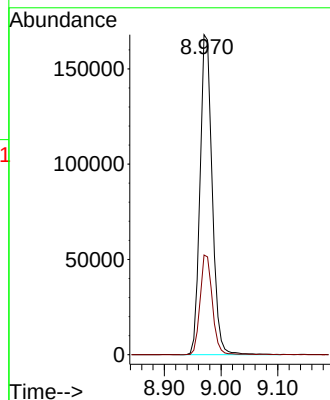
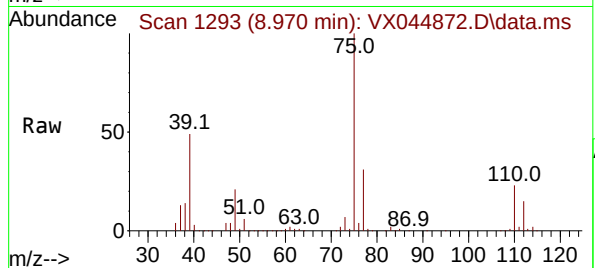
77 31.2 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#54

cis-1,3-Dichloropropene

Concen: 106.287 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

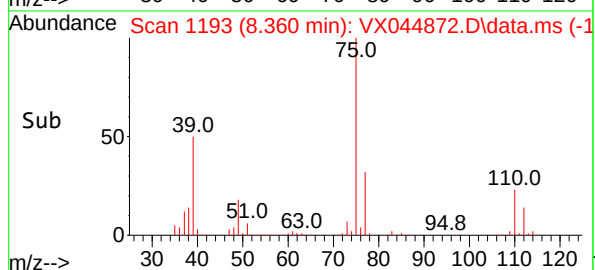
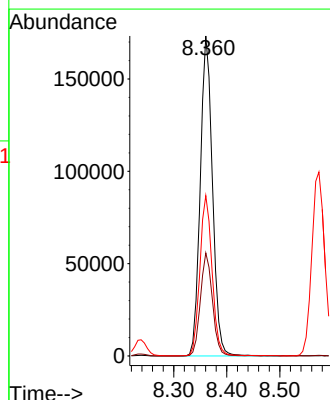
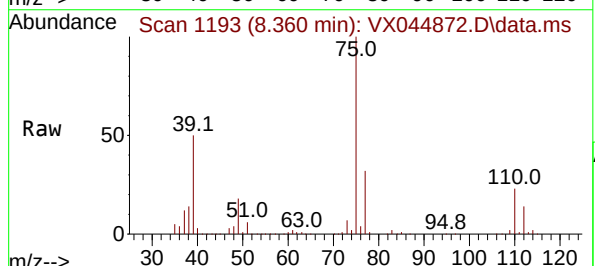
Tgt Ion: 75 Resp: 277371

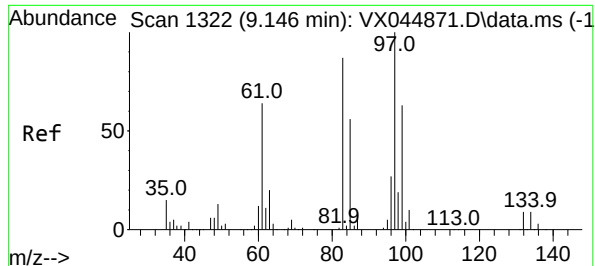
Ion Ratio Lower Upper

75 100

77 32.2 25.3 37.9

39 50.1 40.0 60.0





#55

1,1,2-Trichloroethane

Concen: 98.817 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 97 Resp: 156629

Ion Ratio Lower Upper

97 100

83 88.0 69.8 104.6

85 56.2 44.8 67.2

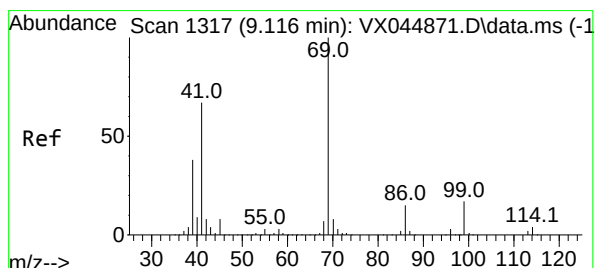
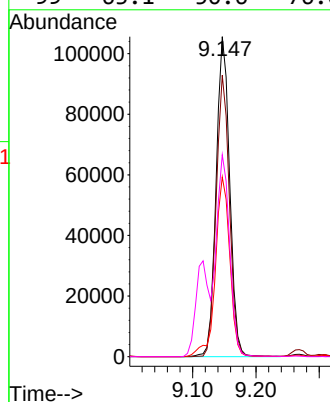
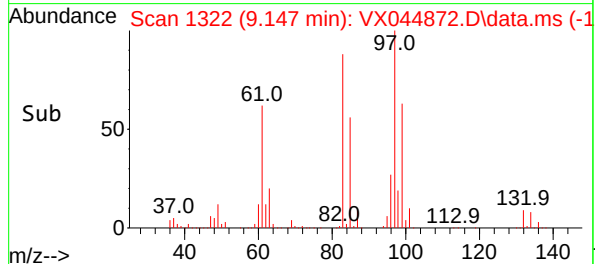
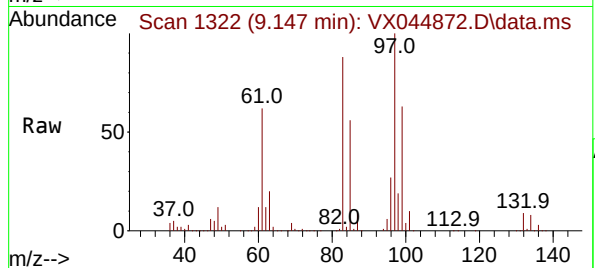
99 63.1 50.6 76.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#56

Ethyl methacrylate

Concen: 104.958 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

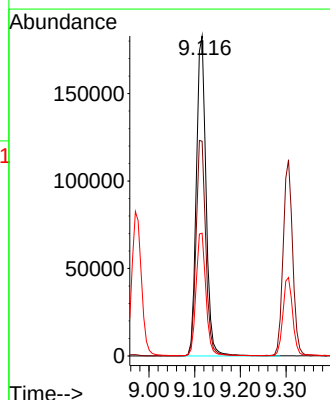
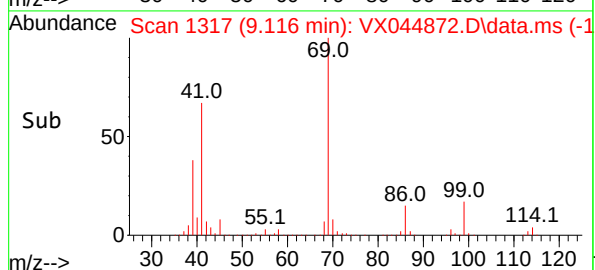
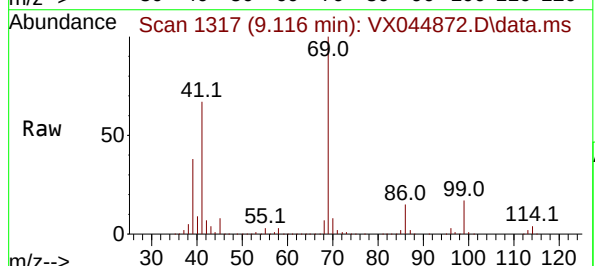
Tgt Ion: 69 Resp: 268693

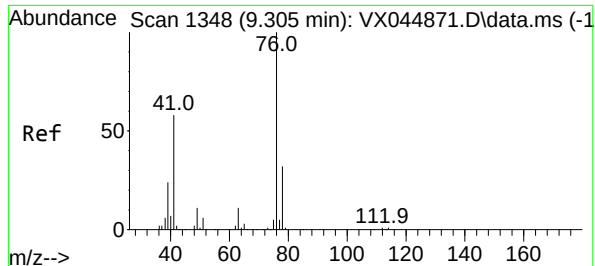
Ion Ratio Lower Upper

69 100

41 68.0 55.2 82.8

39 39.2 30.8 46.2





#57

1,3-Dichloropropane

Concen: 98.742 ug/l

RT: 9.305 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 76 Resp: 27384

Ion Ratio Lower Upper

76 100

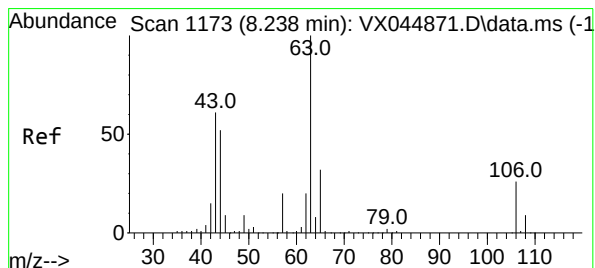
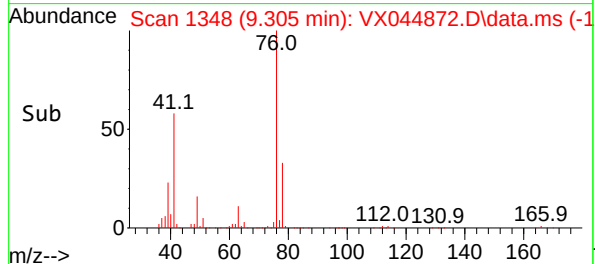
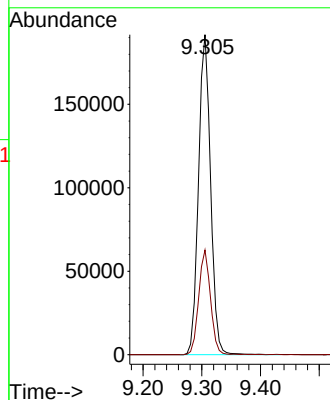
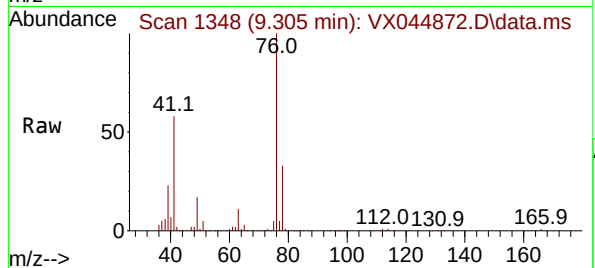
78 32.0 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#58

2-Chloroethyl Vinyl ether

Concen: 528.405 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX044872.D

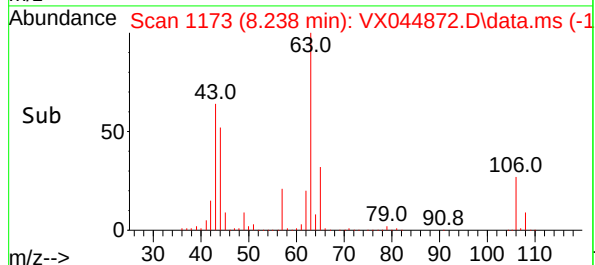
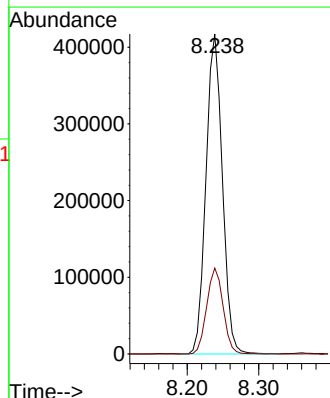
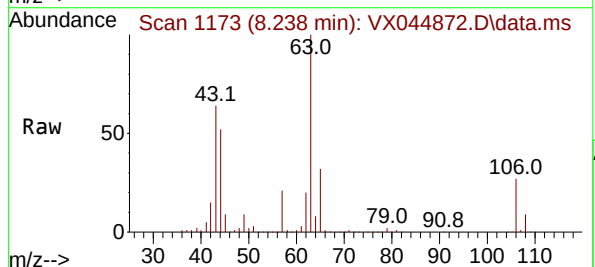
Acq: 10 Feb 2025 12:05

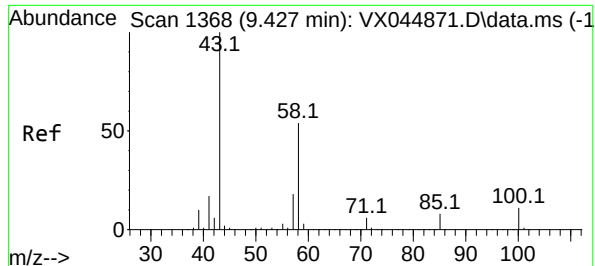
Tgt Ion: 63 Resp: 664198

Ion Ratio Lower Upper

63 100

106 26.8 21.3 31.9





#59

2-Hexanone

Concen: 499.819 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 871904

Ion Ratio Lower Upper

43 100

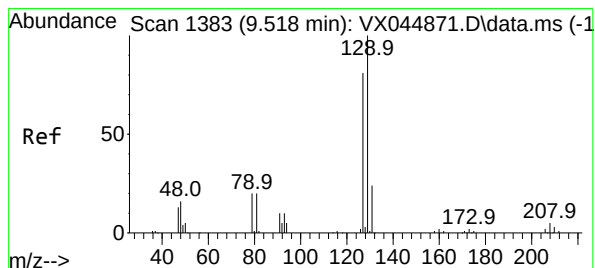
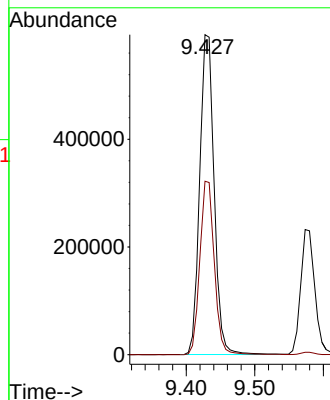
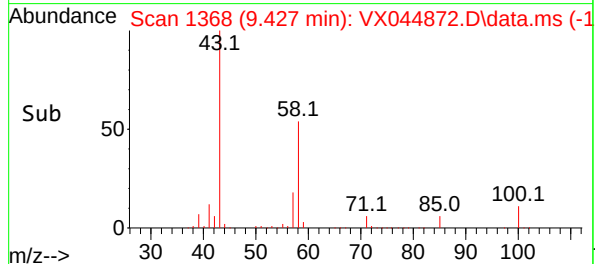
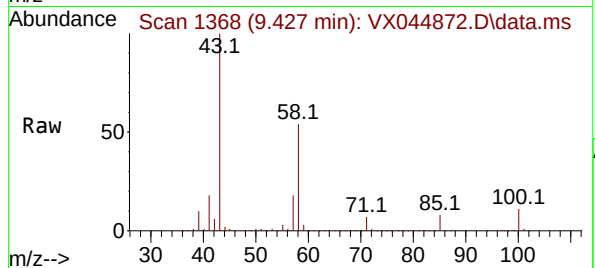
58 54.4 27.5 82.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#60

Dibromochloromethane

Concen: 102.557 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX044872.D

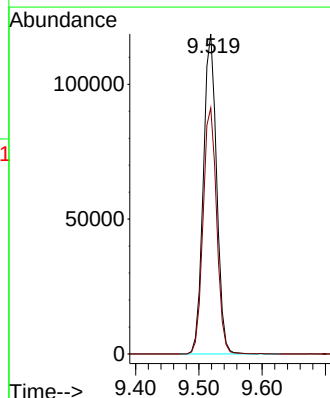
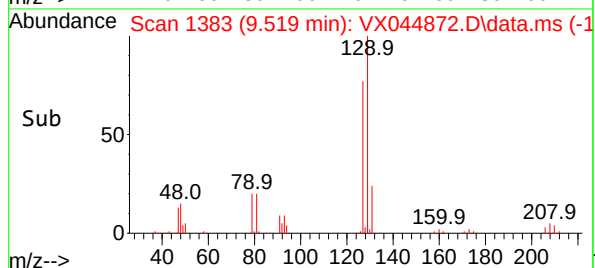
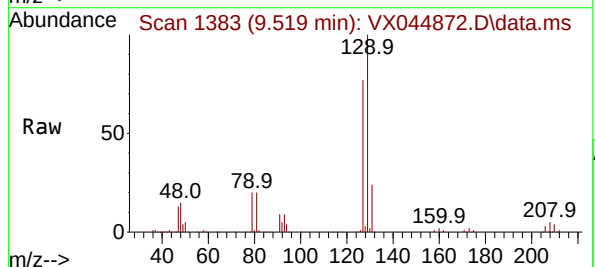
Acq: 10 Feb 2025 12:05

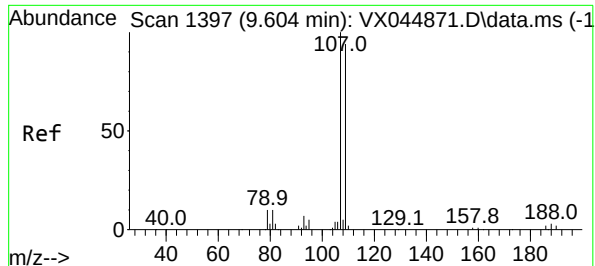
Tgt Ion:129 Resp: 173848

Ion Ratio Lower Upper

129 100

127 78.3 39.1 117.3





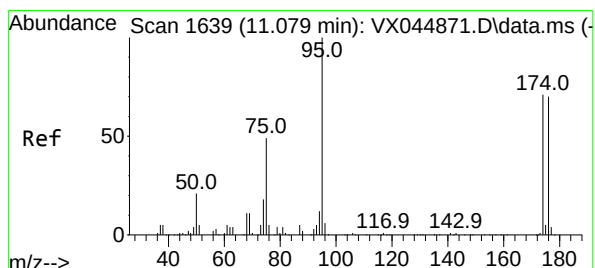
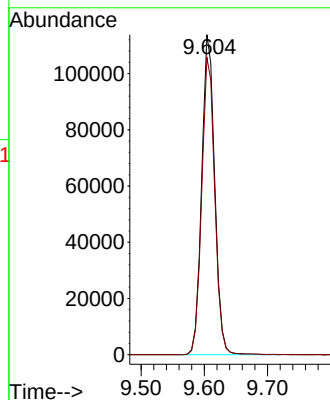
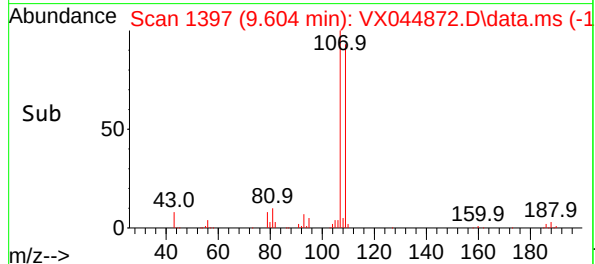
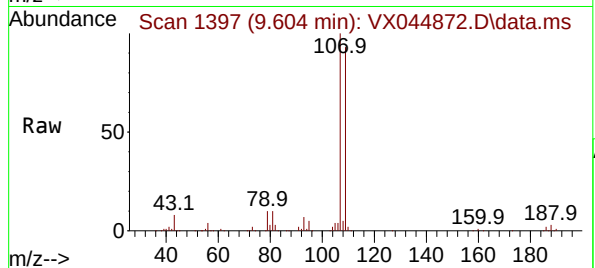
#61
1,2-Dibromoethane
Concen: 101.451 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 16298
Ion Ratio Lower Upper
107 100
109 93.1 75.9 113.9

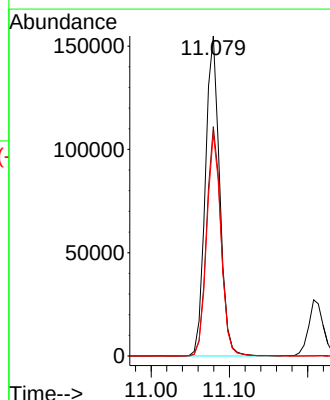
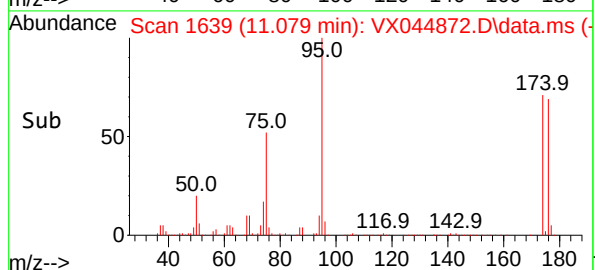
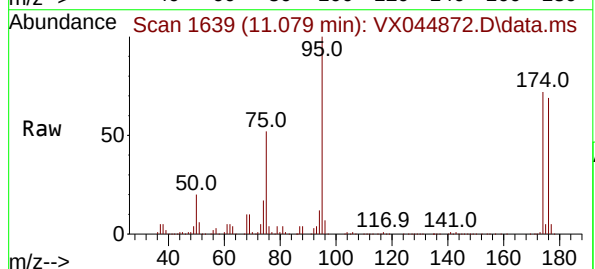
Manual Integrations
APPROVED

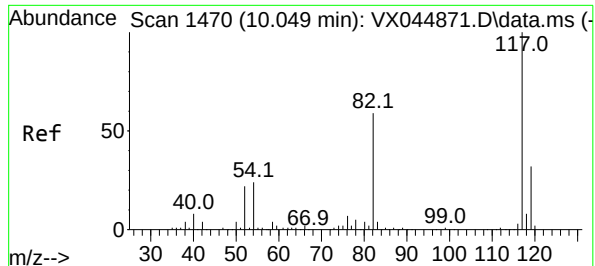
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#62
4-Bromofluorobenzene
Concen: 100.079 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

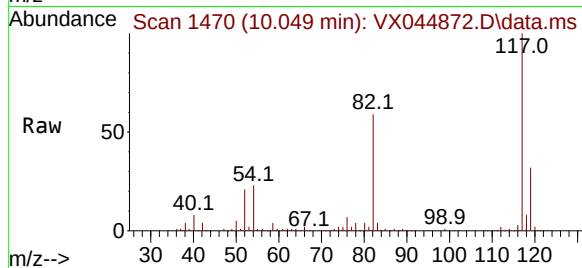
Tgt Ion: 95 Resp: 196066
Ion Ratio Lower Upper
95 100
174 71.6 0.0 142.6
176 68.8 0.0 141.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

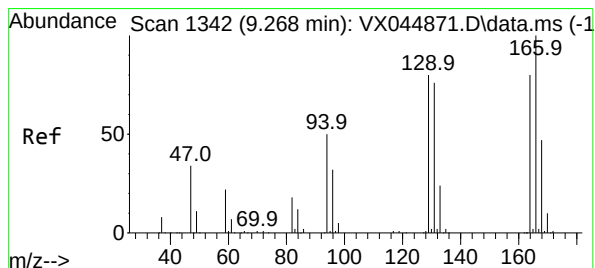
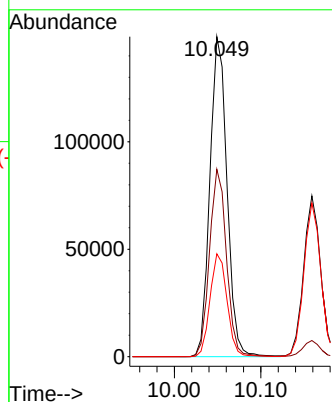
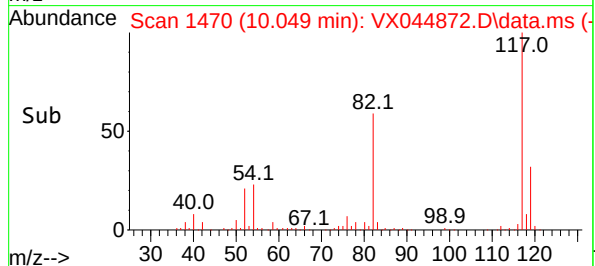
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:117 Resp: 20388
Ion Ratio Lower Upper
117 100
82 58.5 47.5 71.3
119 32.2 25.4 38.0

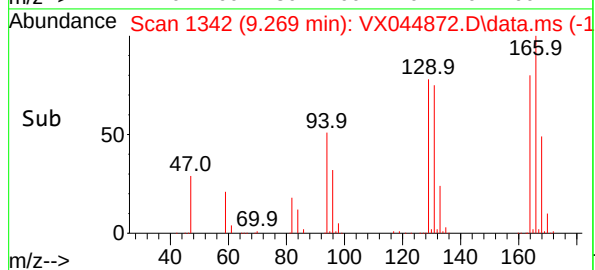
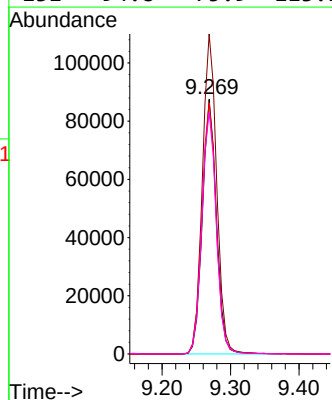
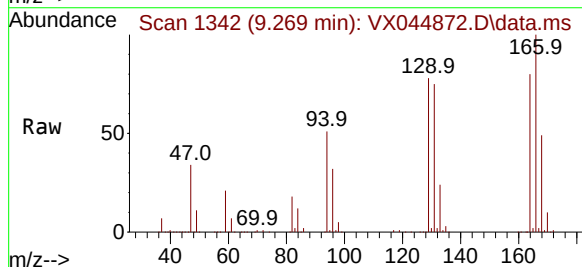
Manual Integrations
APPROVED

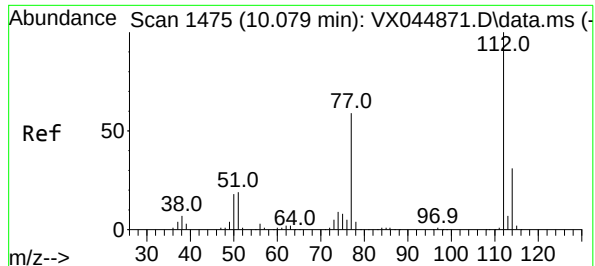
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#64
Tetrachloroethene
Concen: 97.447 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:164 Resp: 125294
Ion Ratio Lower Upper
164 100
166 125.6 100.4 150.6
129 98.6 79.9 119.9
131 94.8 75.9 113.9





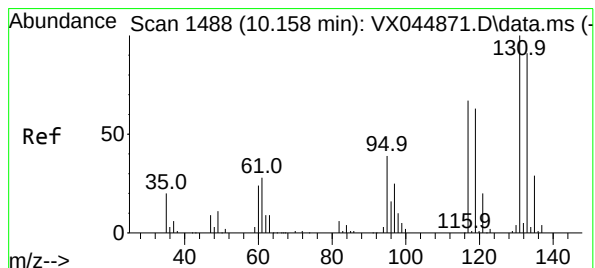
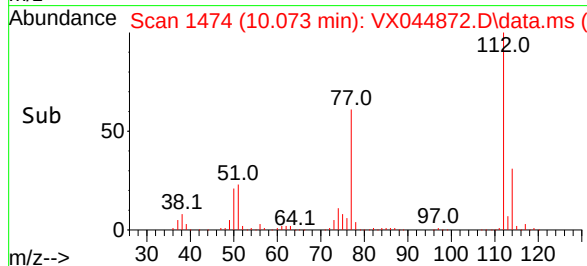
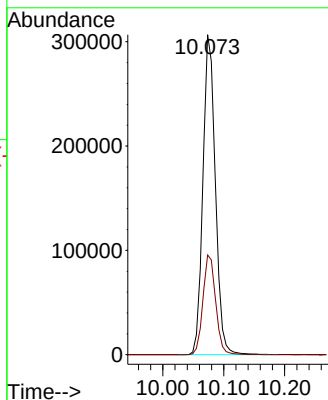
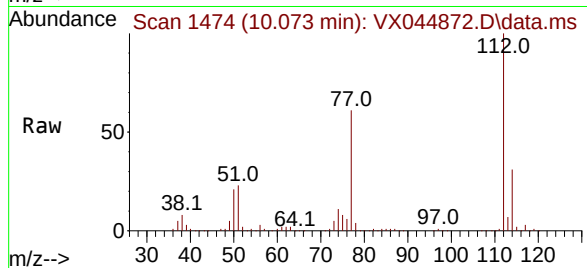
#65
Chlorobenzene
Concen: 99.694 ug/l
RT: 10.073 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tgt Ion:112 Resp: 43656
Ion Ratio Lower Upper
112 100
114 31.2 25.0 37.6

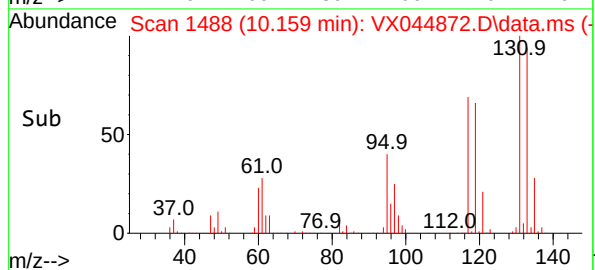
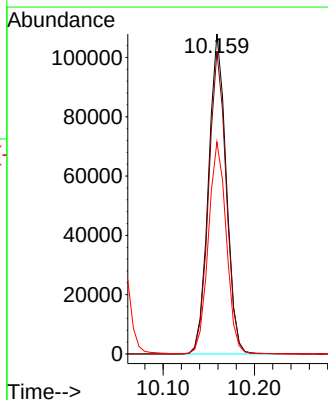
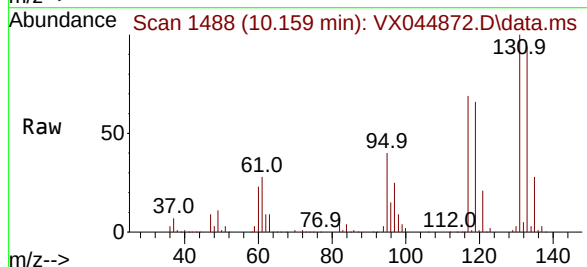
Manual Integrations
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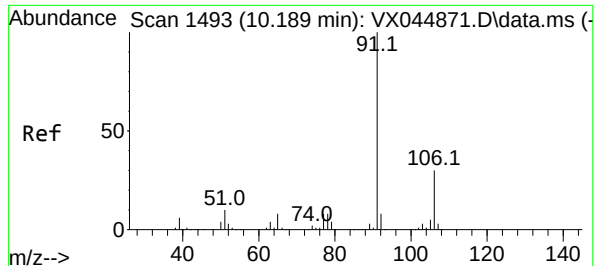
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 102.728 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:131 Resp: 144793
Ion Ratio Lower Upper
131 100
133 94.1 47.1 141.3
119 67.2 33.6 100.6





#67

Ethyl Benzene

Concen: 101.477 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 784184

Ion Ratio Lower Upper

91 100

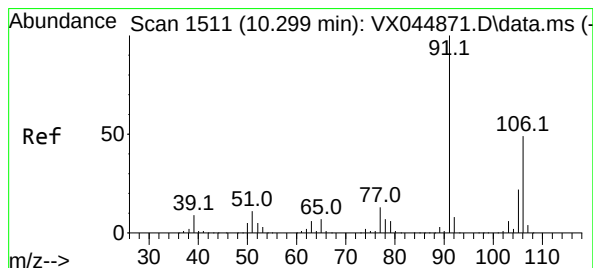
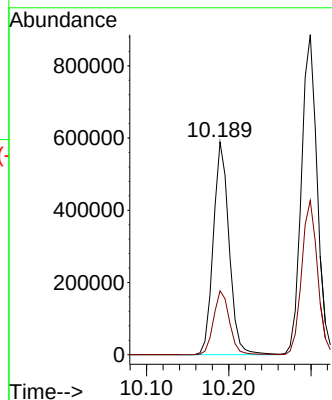
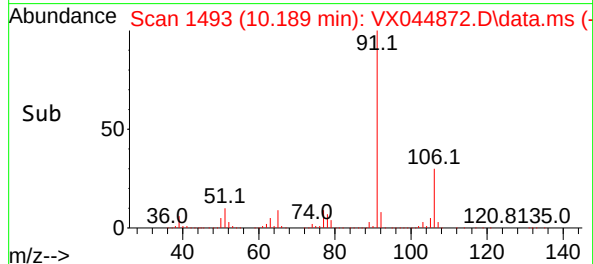
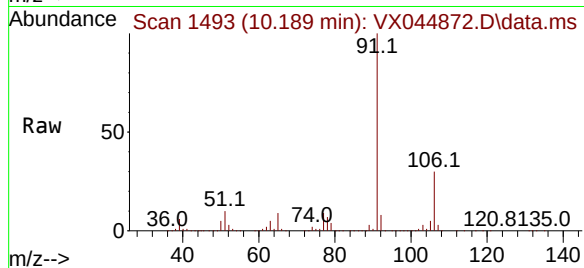
106 30.0 23.9 35.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#68

m/p-Xylenes

Concen: 201.907 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX044872.D

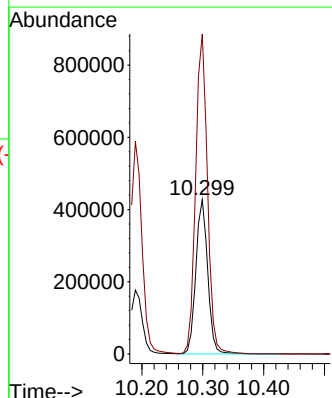
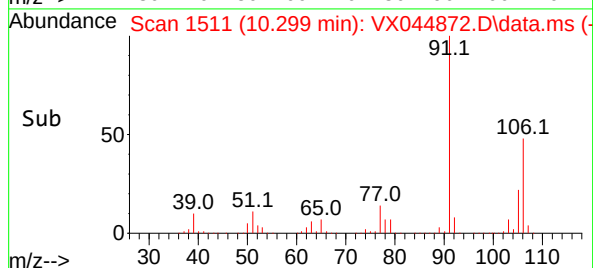
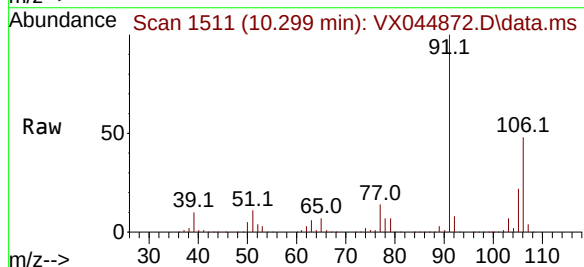
Acq: 10 Feb 2025 12:05

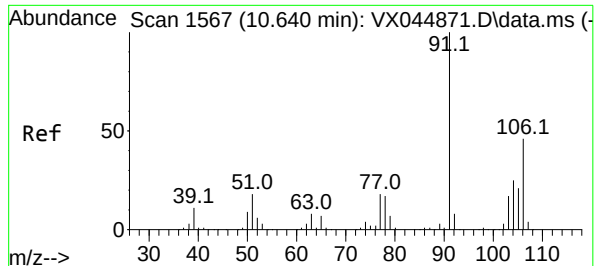
Tgt Ion:106 Resp: 575559

Ion Ratio Lower Upper

106 100

91 207.1 164.3 246.5





#69

o-Xylene

Concen: 98.530 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:106 Resp: 281830

Ion Ratio Lower Upper

106 100

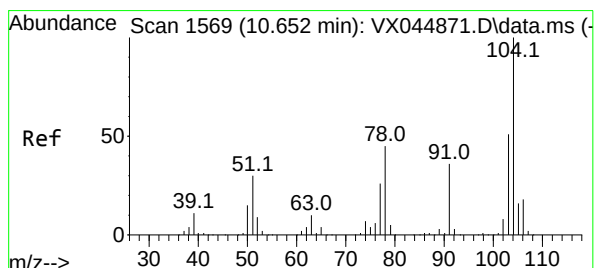
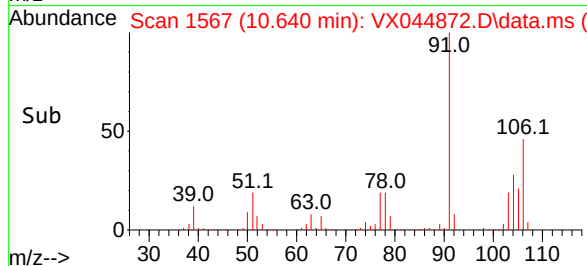
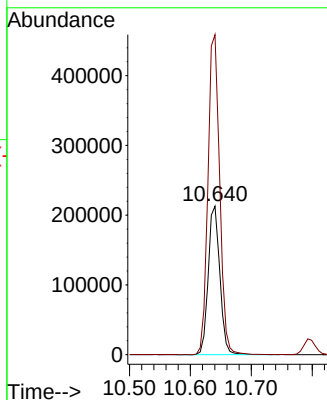
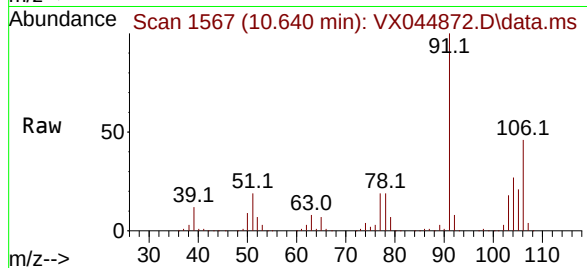
91 217.3 108.5 325.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#70

Styrene

Concen: 102.728 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

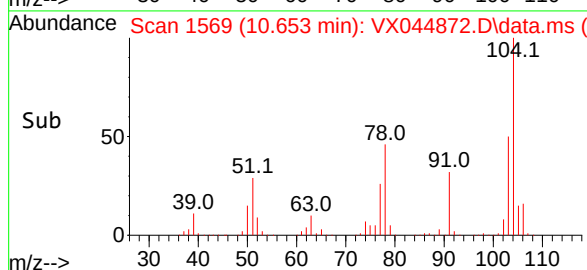
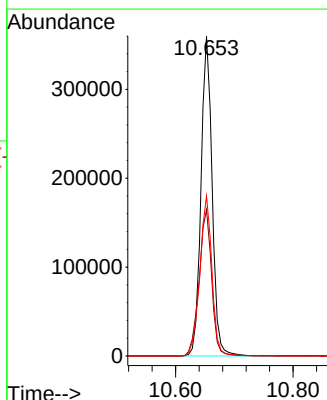
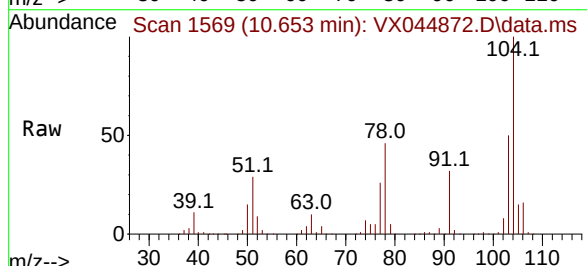
Tgt Ion:104 Resp: 473403

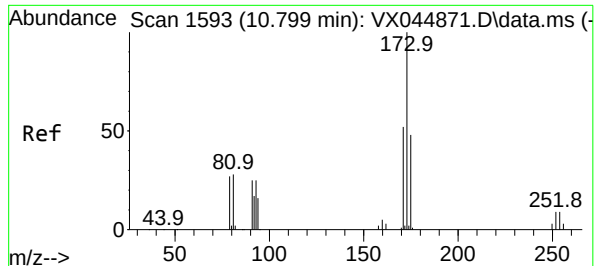
Ion Ratio Lower Upper

104 100

78 51.5 40.5 60.7

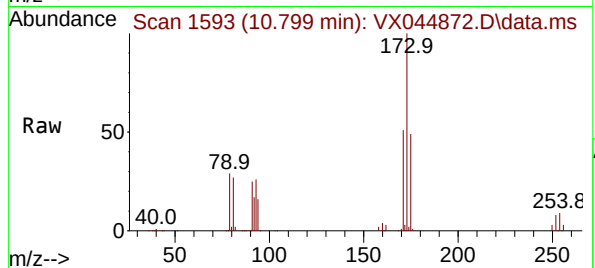
103 54.5 43.6 65.4





#71
Bromoform
Concen: 106.827 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

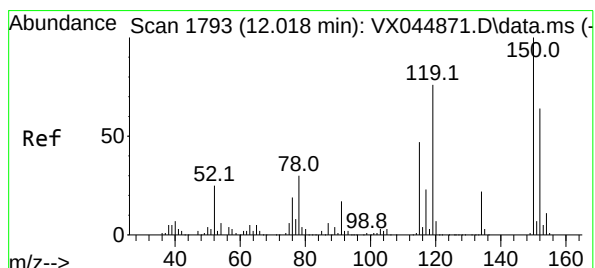
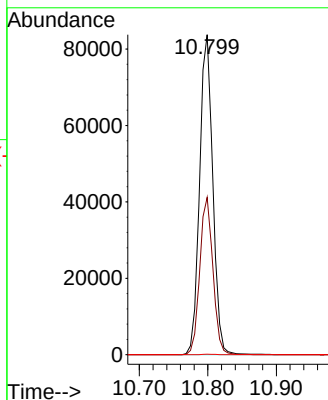
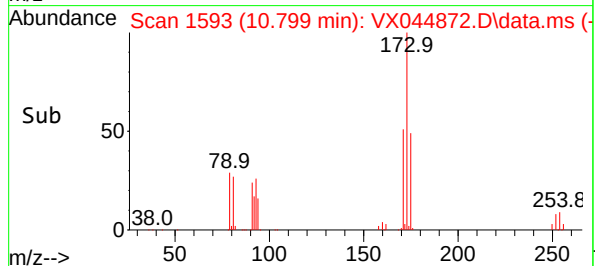
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:173 Resp: 11237
Ion Ratio Lower Upper
173 100
175 49.0 24.3 72.8
254 0.1 0.0 0.0

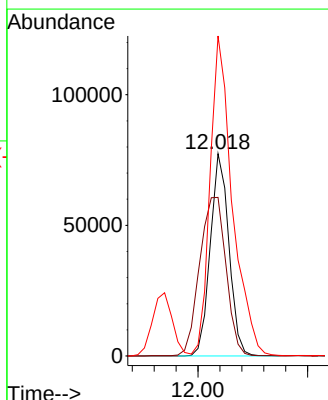
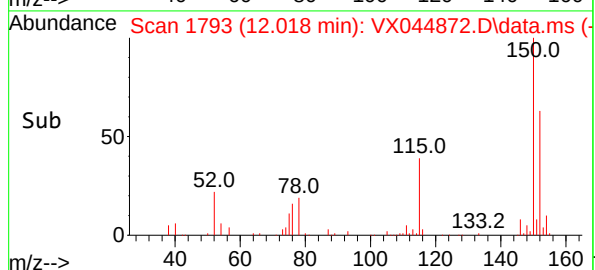
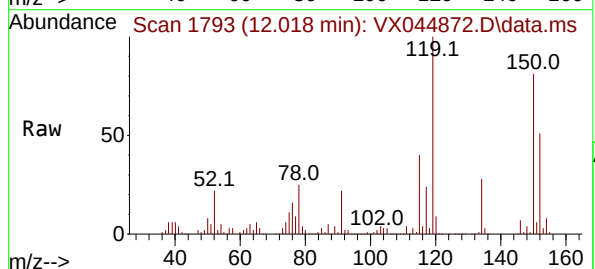
Manual Integrations
APPROVED

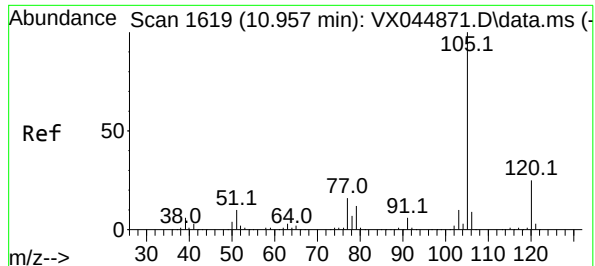
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:152 Resp: 91371
Ion Ratio Lower Upper
152 100
115 111.2 43.4 130.1
150 189.1 0.0 350.4





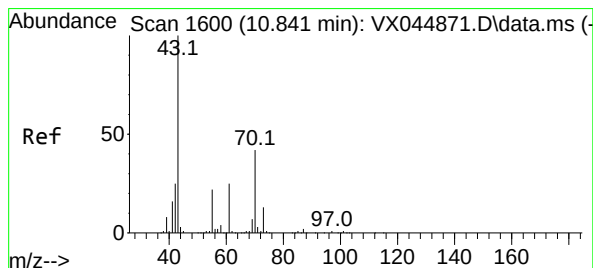
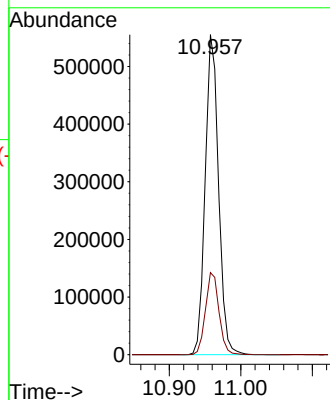
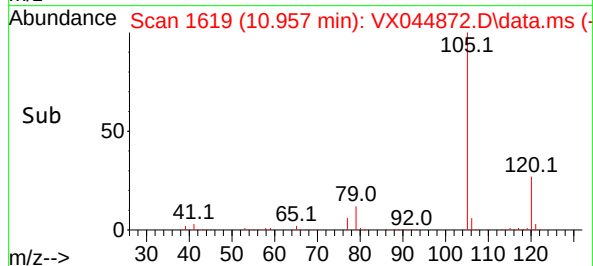
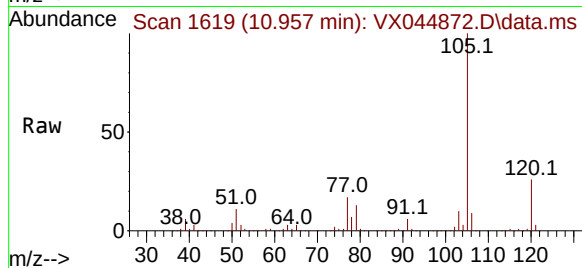
#73
Isopropylbenzene
Concen: 97.854 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 719923
Ion Ratio Lower Upper
105 100
120 26.0 13.2 39.5

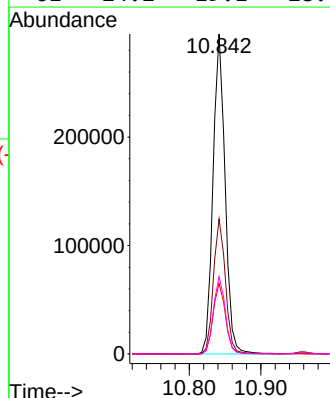
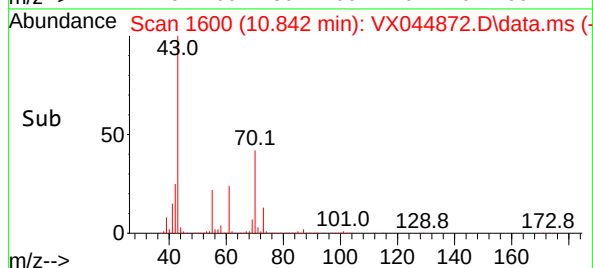
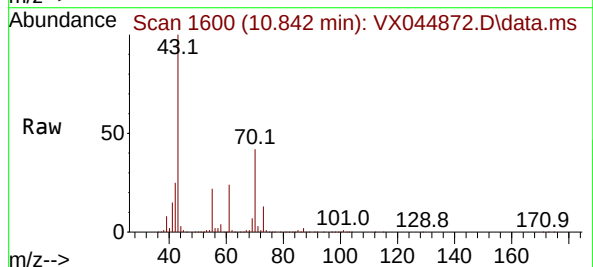
Manual Integrations
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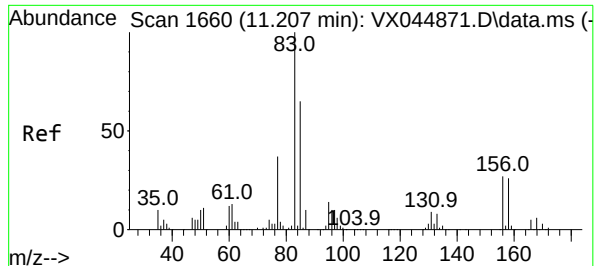
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#74
N-ethyl acetate
Concen: 103.687 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 43 Resp: 345193
Ion Ratio Lower Upper
43 100
70 42.4 33.7 50.5
55 22.6 18.6 27.8
61 24.2 19.1 28.7





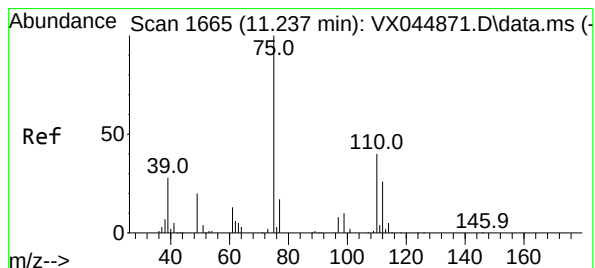
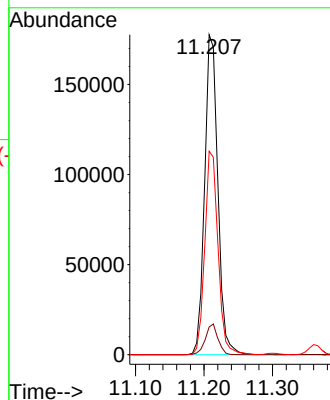
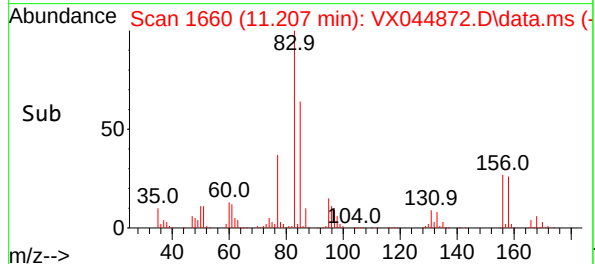
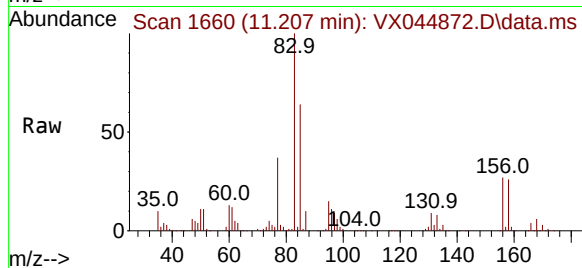
#75
1,1,2,2-Tetrachloroethane
Concen: 94.351 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 238529
Ion Ratio Lower Upper
83 100
131 9.1 4.5 13.5
85 63.9 32.3 96.8

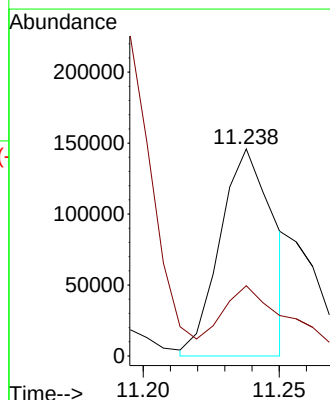
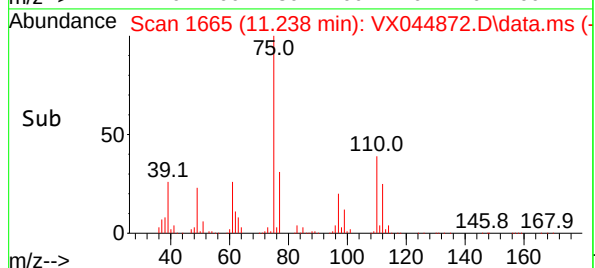
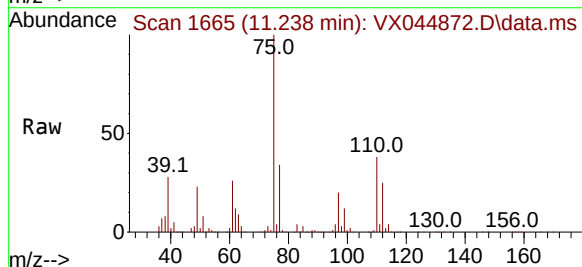
Manual Integrations
APPROVED

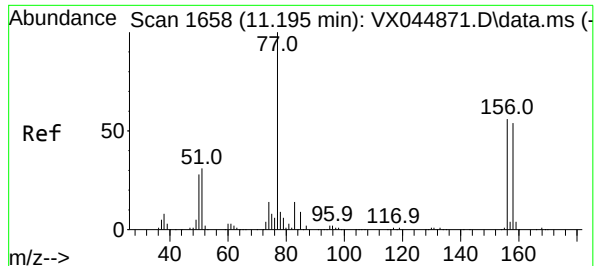
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#76
1,2,3-Trichloropropane
Concen: 97.896 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

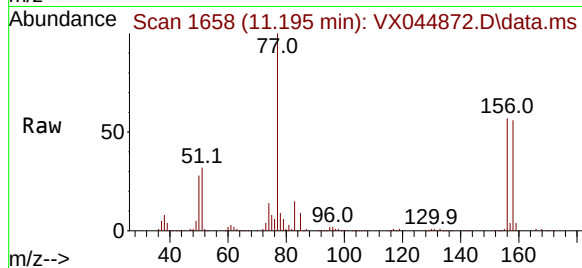
Tgt Ion: 75 Resp: 198320
Ion Ratio Lower Upper
75 100
77 43.4 21.9 65.7





#77
Bromobenzene
Concen: 98.230 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

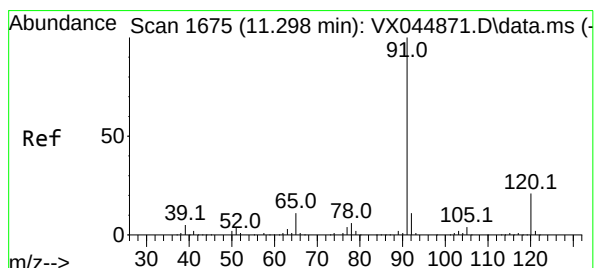
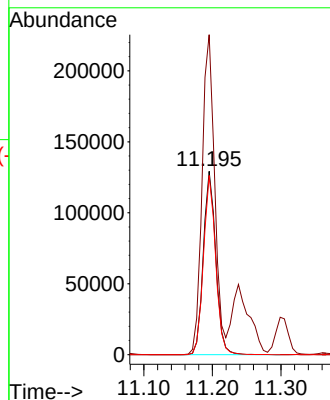
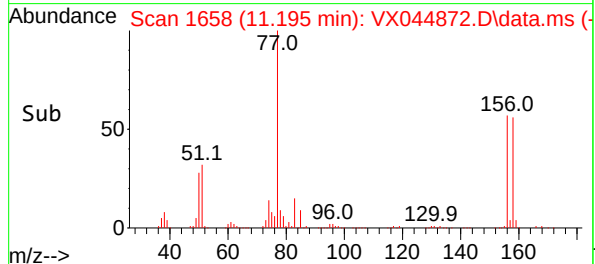
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



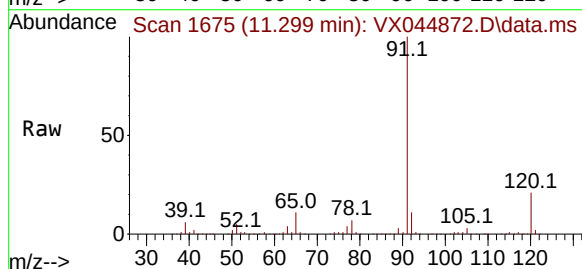
Tgt Ion: 156 Resp: 163849
Ion Ratio Lower Upper
156 100
77 176.7 88.4 265.3
158 95.7 48.4 145.2

Manual Integrations
APPROVED

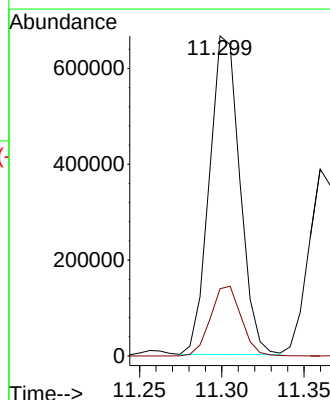
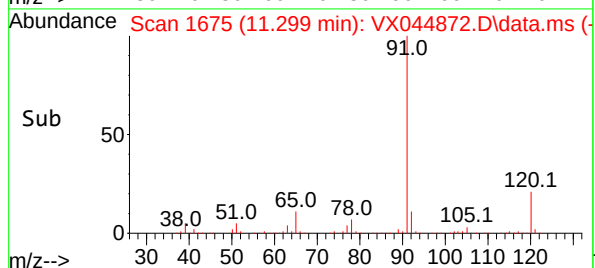
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

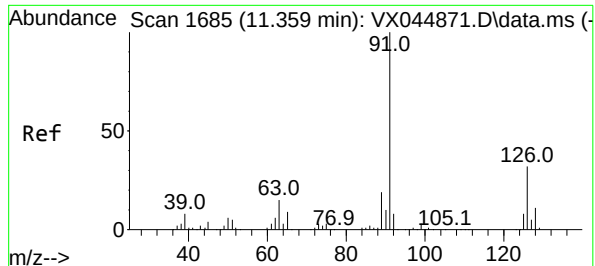


#78
n-propylbenzene
Concen: 101.132 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05



Tgt Ion: 91 Resp: 858793
Ion Ratio Lower Upper
91 100
120 22.1 11.1 33.3





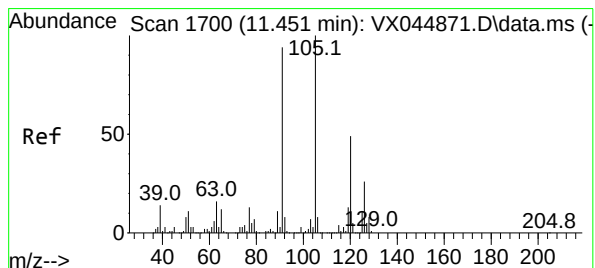
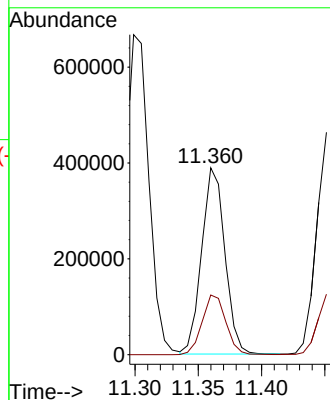
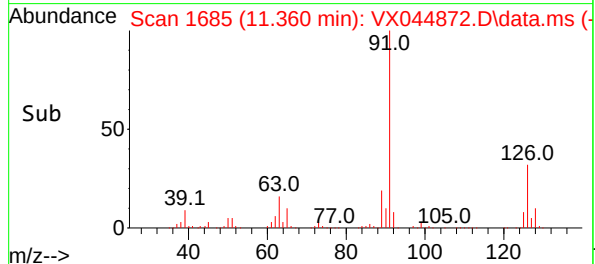
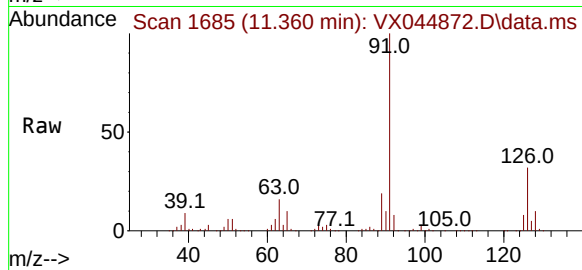
#79
2-Chlorotoluene
Concen: 95.257 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 497149
Ion Ratio Lower Upper
91 100
126 32.8 16.2 48.6

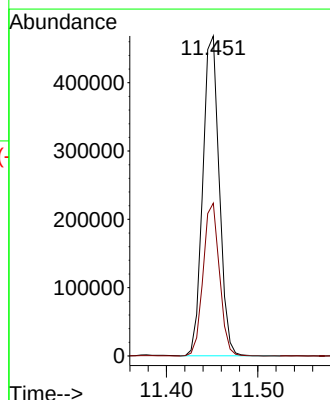
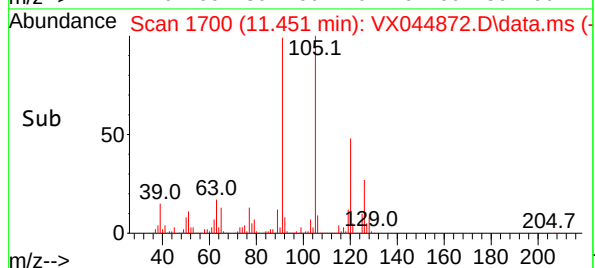
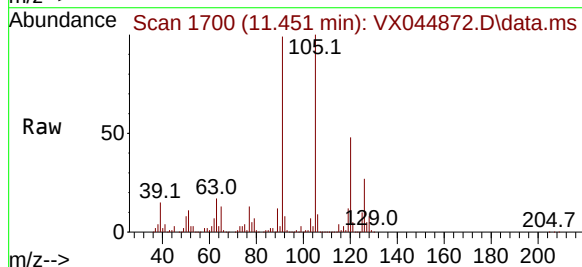
Manual Integrations
APPROVED

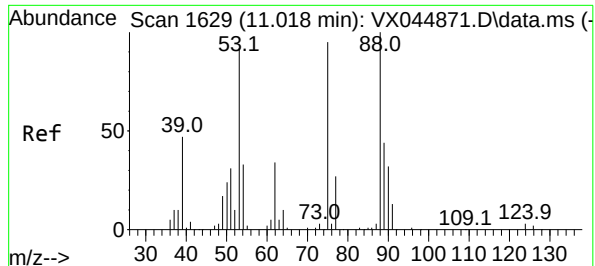
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#80
1,3,5-Trimethylbenzene
Concen: 97.966 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:105 Resp: 584885
Ion Ratio Lower Upper
105 100
120 47.4 24.0 72.0





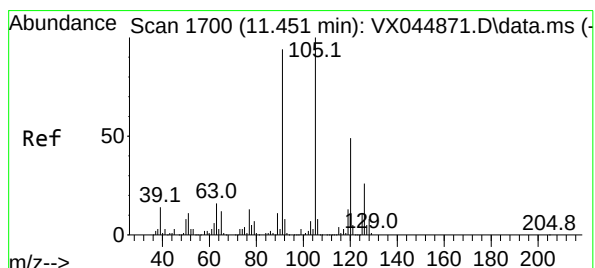
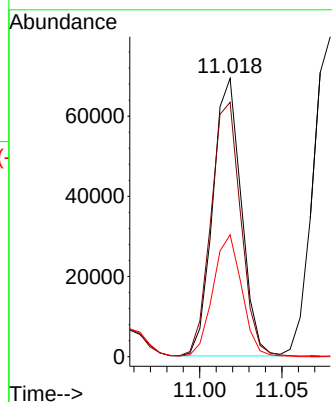
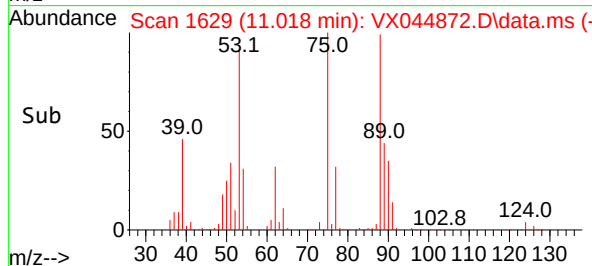
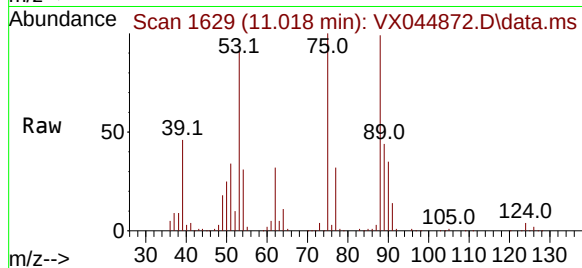
#81
trans-1,4-Dichloro-2-butene
Concen: 106.006 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 8348
Ion Ratio Lower Upper
75 100
53 95.9 78.0 117.0
89 44.6 36.6 54.8

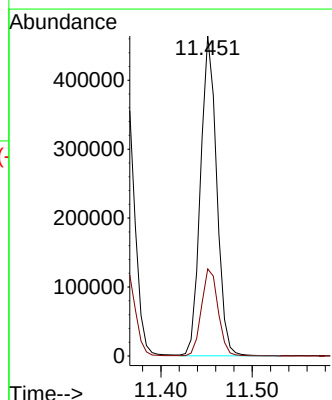
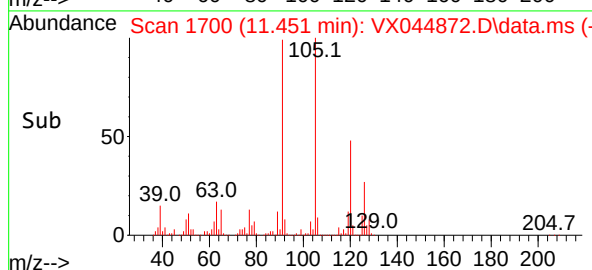
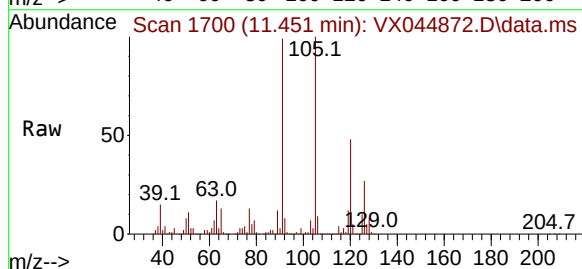
Manual Integrations
APPROVED

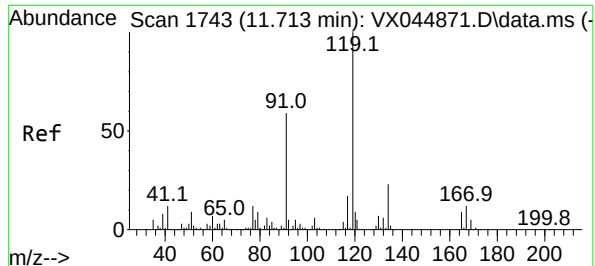
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#82
4-Chlorotoluene
Concen: 98.634 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 91 Resp: 569510
Ion Ratio Lower Upper
91 100
126 28.2 14.2 42.6





#83

tert-Butylbenzene

Concen: 97.917 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:119 Resp: 591390

Ion Ratio Lower Upper

119 100

91 59.2 29.1 87.4

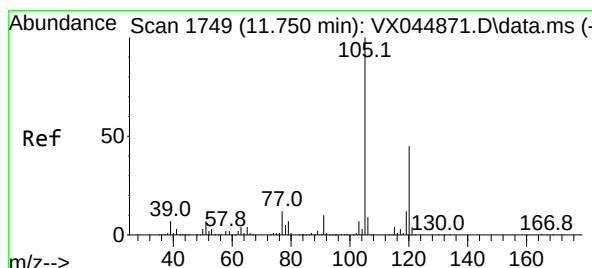
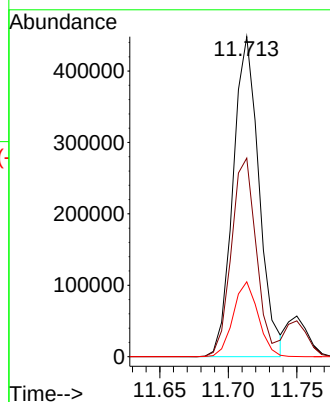
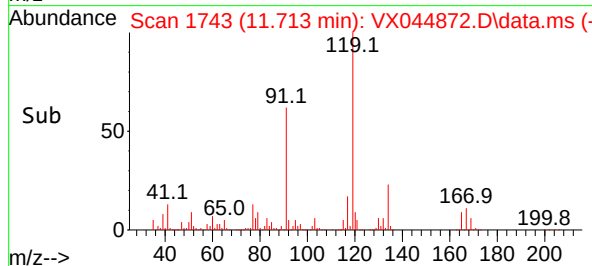
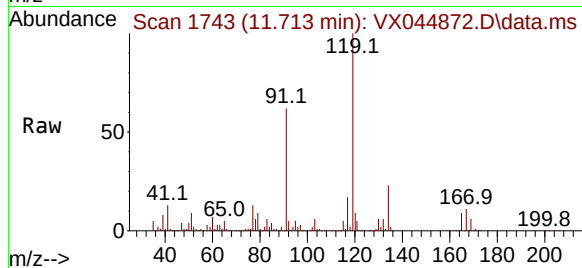
134 22.6 11.5 34.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#84

1,2,4-Trimethylbenzene

Concen: 99.851 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX044872.D

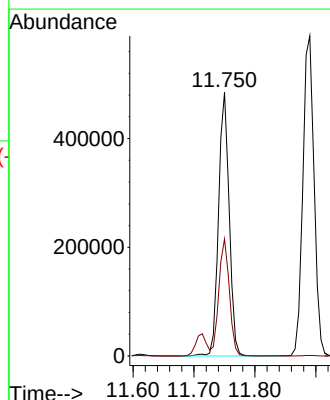
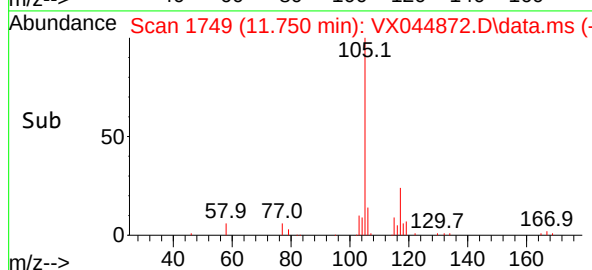
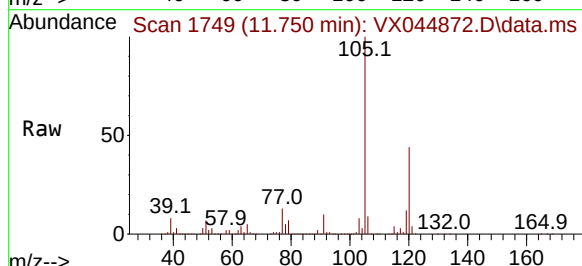
Acq: 10 Feb 2025 12:05

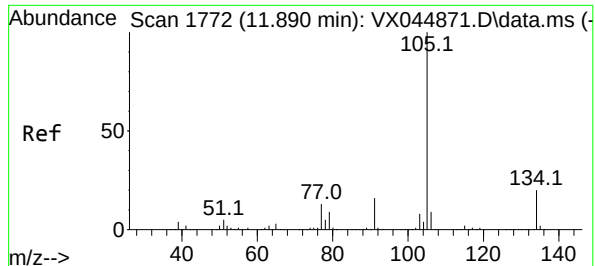
Tgt Ion:105 Resp: 588385

Ion Ratio Lower Upper

105 100

120 44.0 22.4 67.0





#85

sec-Butylbenzene

Concen: 100.219 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:105 Resp: 749534

Ion Ratio Lower Upper

105 100

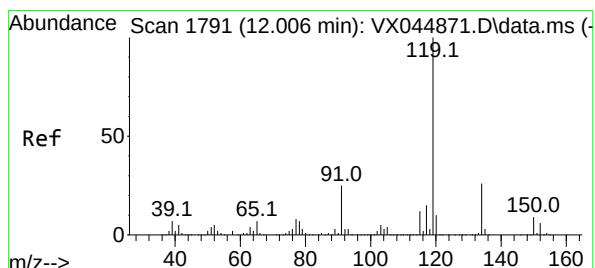
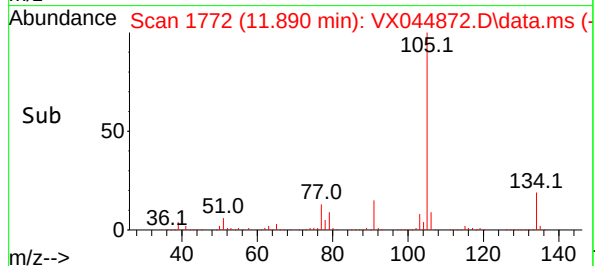
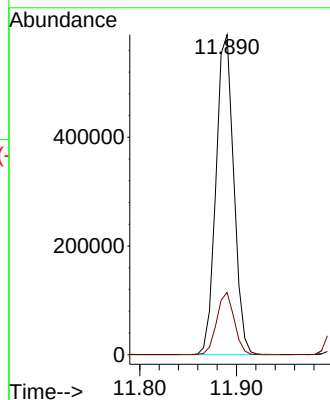
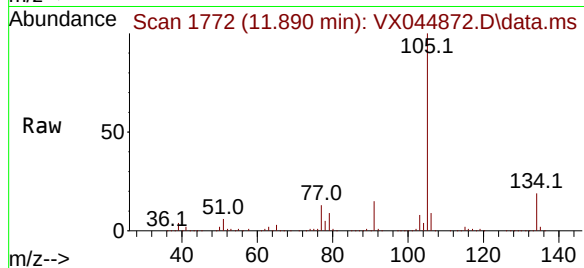
134 19.2 9.8 29.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#86

p-Isopropyltoluene

Concen: 101.019 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

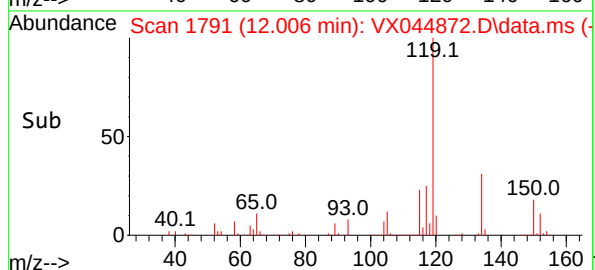
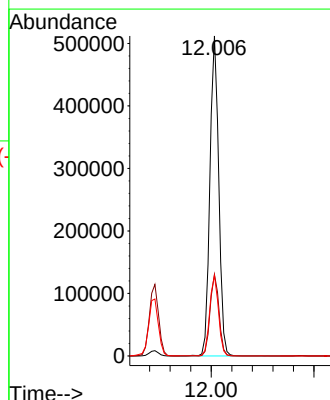
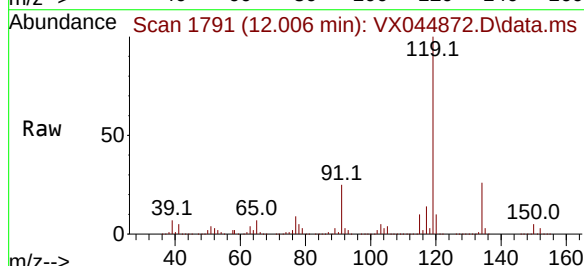
Tgt Ion:119 Resp: 607577

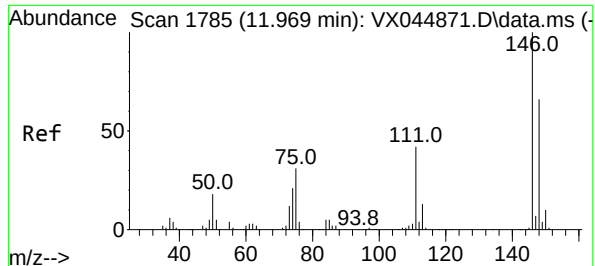
Ion Ratio Lower Upper

119 100

134 25.8 13.0 38.9

91 25.0 12.1 36.3





#87

1,3-Dichlorobenzene

Concen: 99.061 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:146 Resp: 30385

Ion Ratio Lower Upper

146 100

111 42.0 21.2 63.6

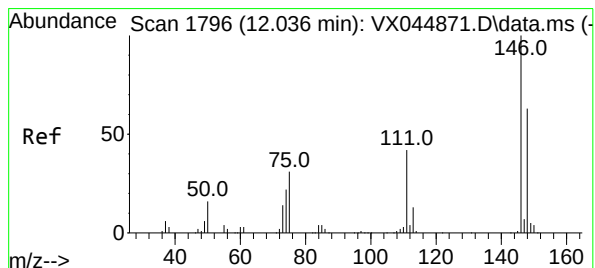
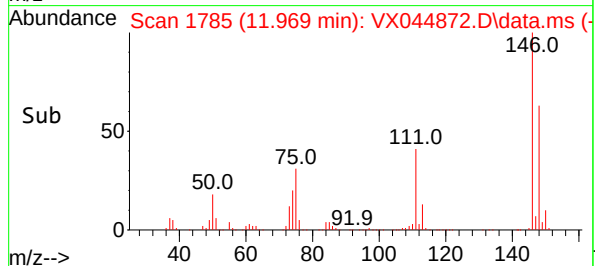
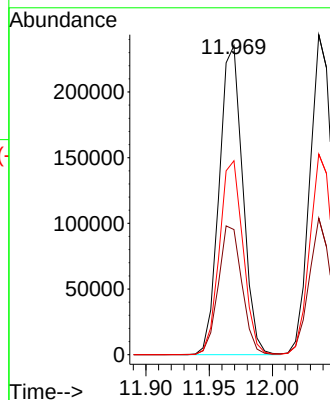
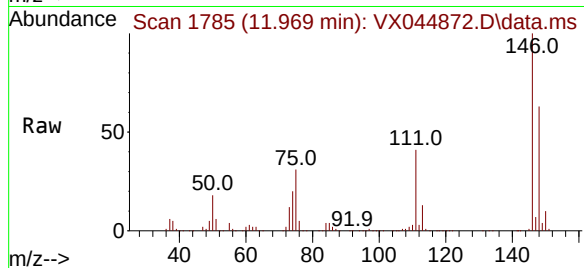
148 63.1 32.5 97.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#88

1,4-Dichlorobenzene

Concen: 97.830 ug/l

RT: 12.037 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

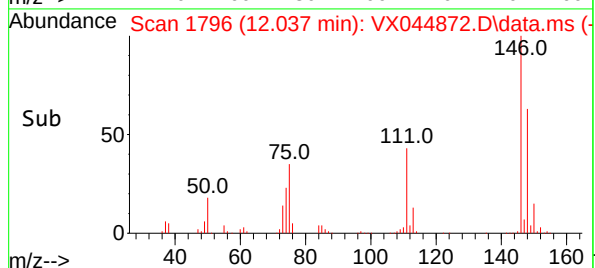
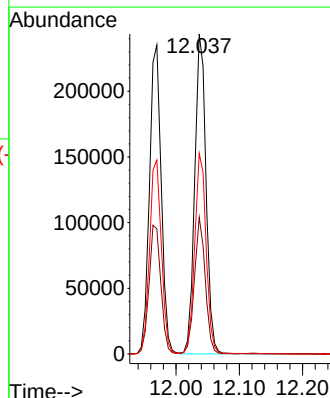
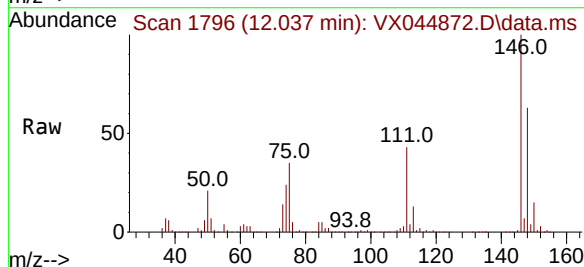
Tgt Ion:146 Resp: 303417

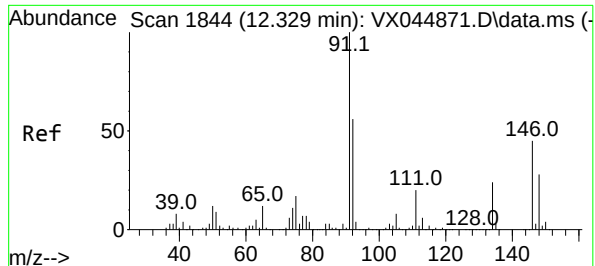
Ion Ratio Lower Upper

146 100

111 41.1 20.4 61.3

148 63.0 32.0 96.0





#89

n-Butylbenzene

Concen: 109.686 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX044872.D

Acq: 10 Feb 2025 12:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 583634

Ion Ratio Lower Upper

91 100

92 54.2 27.2 81.6

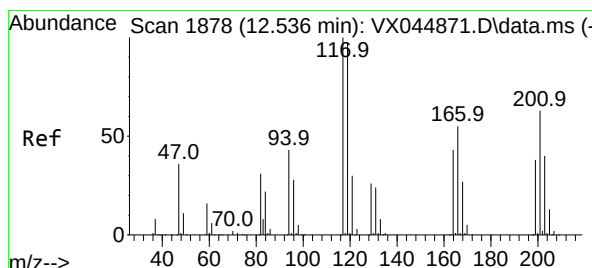
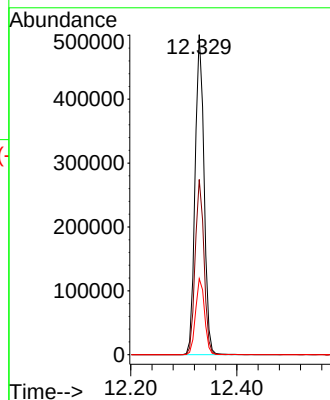
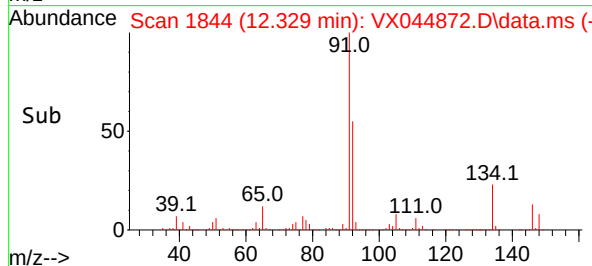
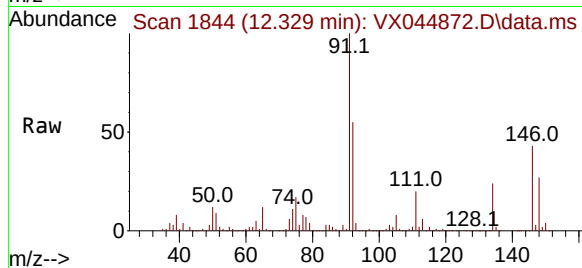
134 24.0 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#90

Hexachloroethane

Concen: 104.365 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX044872.D

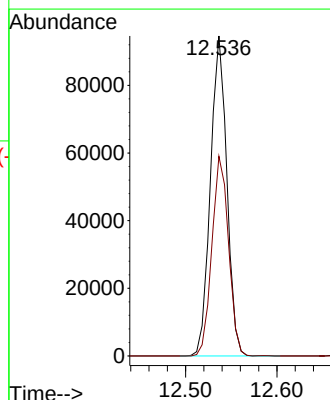
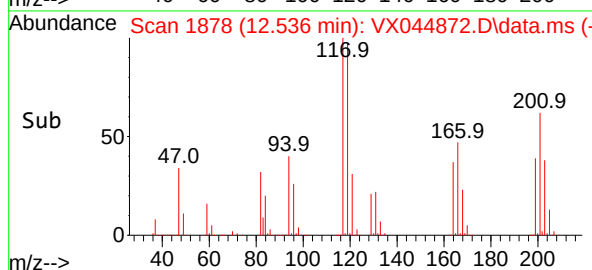
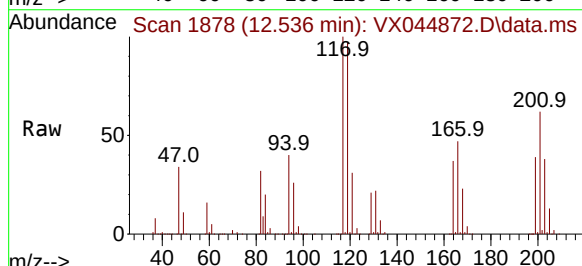
Acq: 10 Feb 2025 12:05

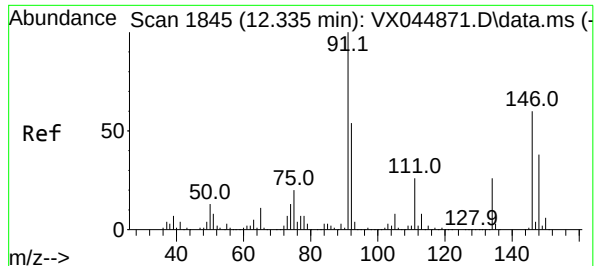
Tgt Ion:117 Resp: 117533

Ion Ratio Lower Upper

117 100

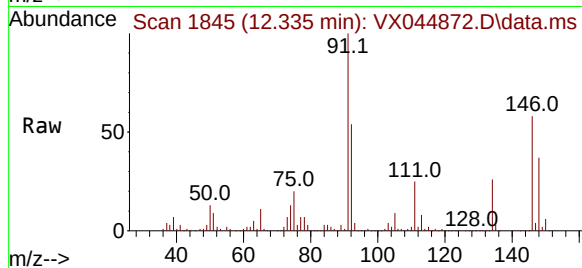
201 63.4 32.5 97.5





#91
1,2-Dichlorobenzene
Concen: 97.244 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

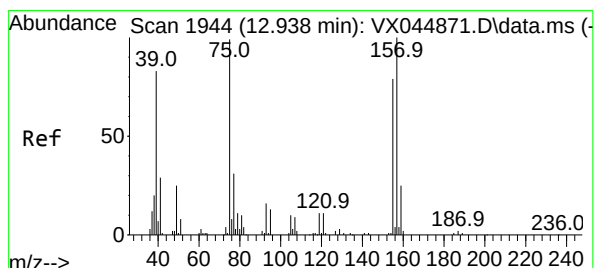
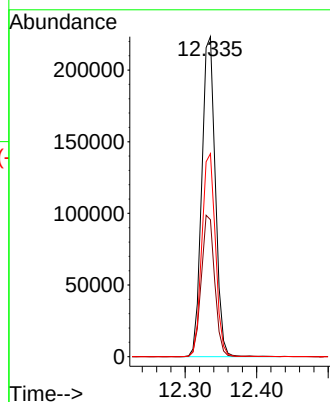
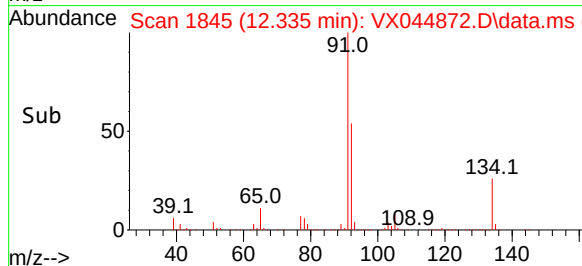
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100



Tgt Ion:146 Resp: 29315
Ion Ratio Lower Upper
146 100
111 43.7 21.8 65.4
148 63.9 31.9 95.9

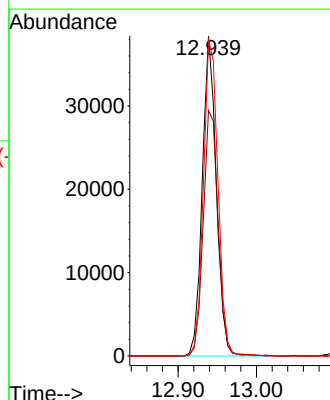
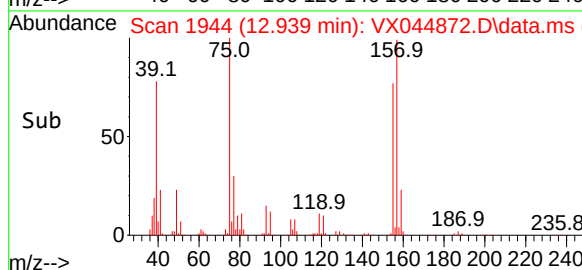
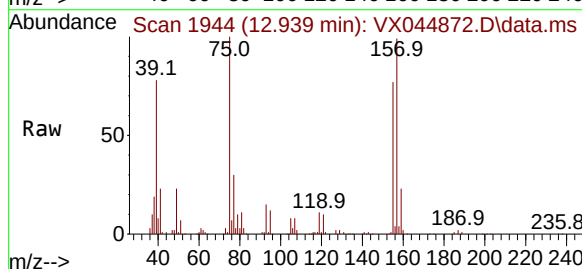
Manual Integrations
APPROVED

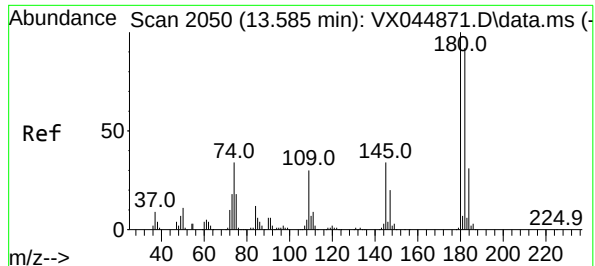
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 103.477 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

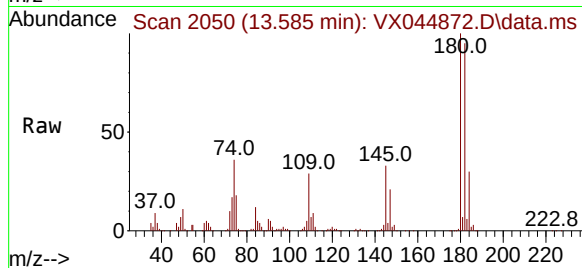
Tgt Ion: 75 Resp: 47745
Ion Ratio Lower Upper
75 100
155 81.0 40.5 121.4
157 102.3 51.4 154.3





#93
1,2,4-Trichlorobenzene
Concen: 105.921 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

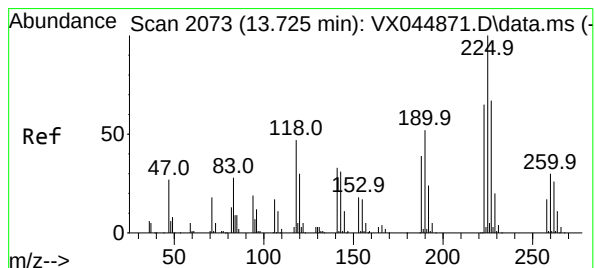
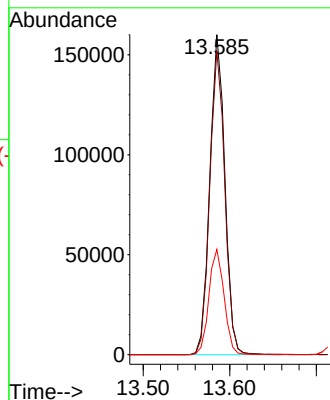
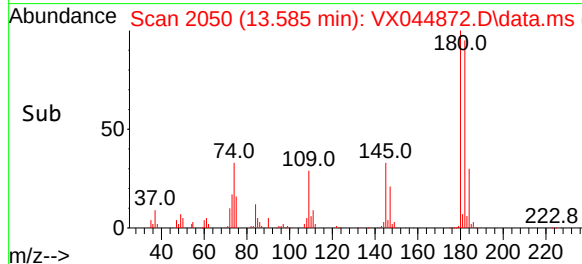
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:180 Resp: 193214
Ion Ratio Lower Upper
180 100
182 94.8 47.6 142.8
145 33.2 16.4 49.1

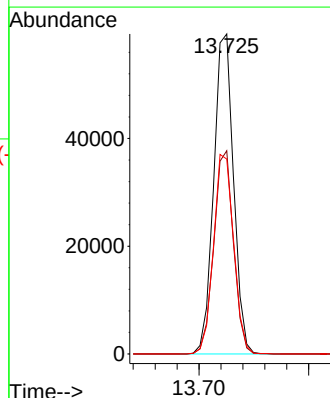
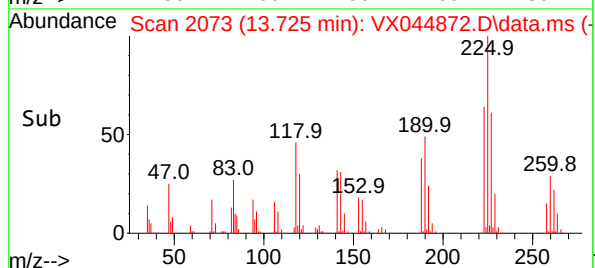
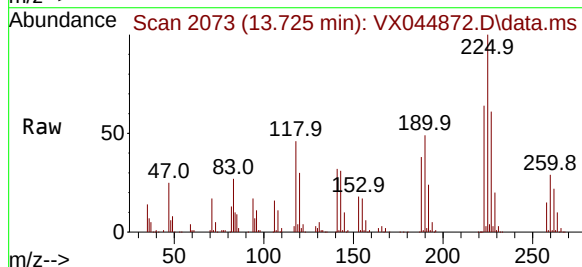
Manual Integrations
APPROVED

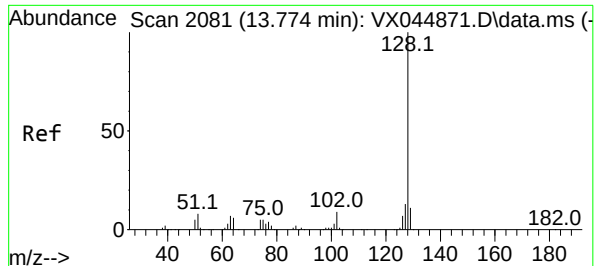
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#94
Hexachlorobutadiene
Concen: 103.024 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

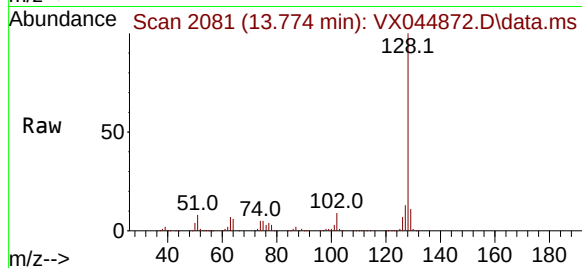
Tgt Ion:225 Resp: 74605
Ion Ratio Lower Upper
225 100
223 62.9 31.4 94.2
227 63.5 32.3 96.8





#95
Naphthalene
Concen: 104.505 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

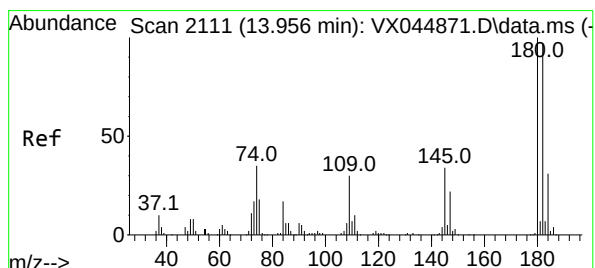
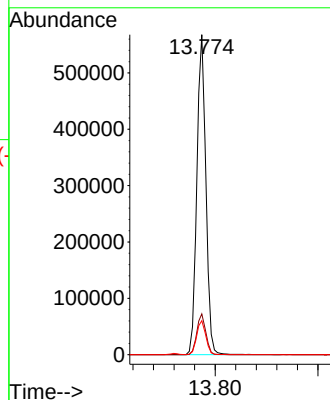
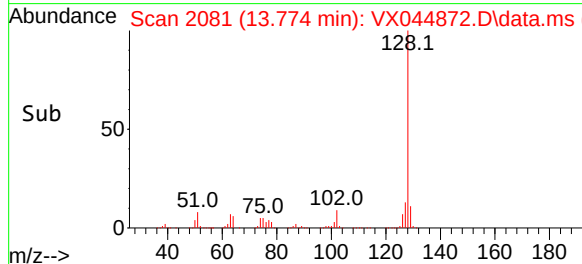
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:128 Resp: 689104
Ion Ratio Lower Upper
128 100
127 12.8 10.1 15.1
129 10.7 8.9 13.3

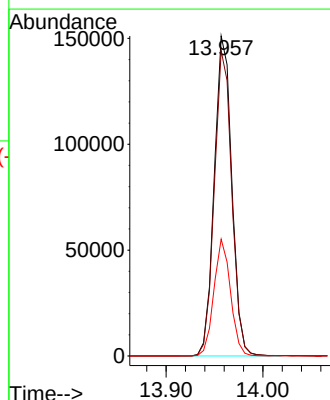
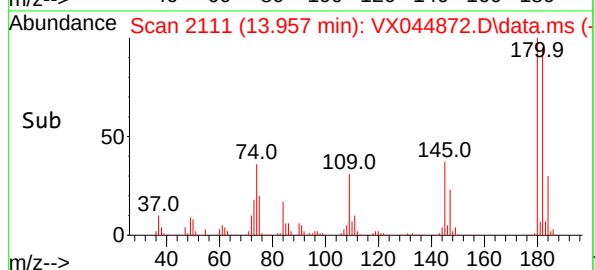
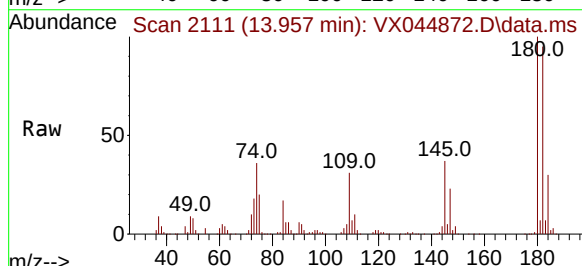
Manual Integrations
APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#96
1,2,3-Trichlorobenzene
Concen: 103.659 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:180 Resp: 190534
Ion Ratio Lower Upper
180 100
182 94.8 47.9 143.6
145 34.6 17.1 51.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044873.D
 Acq On : 10 Feb 2025 12:28
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 02:02:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 01:47:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	125253	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	232597	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	196663	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	84836	50.000	ug/l	# 0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.946	65	280853	153.180	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 306.360%#	
35) Dibromofluoromethane	5.379	113	229218	151.572	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 303.140%#	
50) Toluene-d8	8.647	98	845632	147.877	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 295.760%#	
62) 4-Bromofluorobenzene	11.079	95	287486	149.124	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 298.240%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.166	85	260576	148.330	ug/l	96
3) Chloromethane	1.307	50	297968	139.361	ug/l	100
4) Vinyl Chloride	1.374	62	305986	147.723	ug/l	99
5) Bromomethane	1.593	94	92399	149.071	ug/l	96
6) Chloroethane	1.660	64	67889	130.289	ug/l	97
7) Trichlorofluoromethane	1.867	101	378664	144.558	ug/l	99
8) Diethyl Ether	2.136	74	140428	147.822	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	239215	151.147	ug/l	100
10) Methyl Iodide	2.441	142	305390	148.887	ug/l	100
11) Tert butyl alcohol	3.020	59	242430	712.734	ug/l	100
12) 1,1-Dichloroethene	2.306	96	246987	152.989	ug/l	99
13) Acrolein	2.239	56	273178	778.418	ug/l	100
14) Allyl chloride	2.654	41	438493	150.289	ug/l	97
15) Acrylonitrile	3.068	53	684234	753.423	ug/l	99
16) Acetone	2.386	43	547939	743.398	ug/l	99
17) Carbon Disulfide	2.502	76	693558	156.665	ug/l	100
18) Methyl Acetate	2.703	43	373877	160.743	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	792810	154.347	ug/l	100
20) Methylene Chloride	2.782	84	270575	149.871	ug/l	100
21) trans-1,2-Dichloroethene	3.081	96	242082	152.356	ug/l	93
22) Diisopropyl ether	3.757	45	839126	152.020	ug/l	98
23) Vinyl Acetate	3.721	43	3555031	789.993	ug/l	100
24) 1,1-Dichloroethane	3.605	63	472424	152.959	ug/l	99
25) 2-Butanone	4.556	43	914741	764.276	ug/l	98
26) 2,2-Dichloropropane	4.471	77	382167	156.029	ug/l	98
27) cis-1,2-Dichloroethene	4.477	96	292864	153.446	ug/l	99
28) Bromochloromethane	4.891	49	217387	146.458	ug/l	98
29) Tetrahydrofuran	5.001	42	596045	749.977	ug/l	99
30) Chloroform	5.086	83	453809	151.509	ug/l	99
31) Cyclohexane	5.458	56	423464	148.722	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	386162	151.996	ug/l	99
36) 1,1-Dichloropropene	5.684	75	324182	148.585	ug/l	100
37) Ethyl Acetate	4.715	43	368763	151.956	ug/l	99
38) Carbon Tetrachloride	5.672	117	320536	149.921	ug/l	98
39) Methylcyclohexane	7.373	83	443218	157.130	ug/l	99
40) Benzene	6.031	78	1014129	148.856	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044873.D
 Acq On : 10 Feb 2025 12:28
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 02:02:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 01:47:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	206155	158.707	ug/l	100
42) 1,2-Dichloroethane	6.080	62	336520	154.984	ug/l	99
43) Isopropyl Acetate	6.336	43	617516	157.575	ug/l	99
44) Trichloroethene	7.117	130	239030	153.496	ug/l	99
45) 1,2-Dichloropropane	7.427	63	259454	153.076	ug/l	100
46) Dibromomethane	7.574	93	179689	152.870	ug/l	99
47) Bromodichloromethane	7.818	83	357623	157.128	ug/l	98
48) Methyl methacrylate	7.690	41	297931	161.236	ug/l	99
49) 1,4-Dioxane	7.665	88	106175	2678.192	ug/l	99
51) 4-Methyl-2-Pentanone	8.574	43	1736538	728.887	ug/l	100
52) Toluene	8.714	92	603113	148.645	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	378639	164.398	ug/l	100
54) cis-1,3-Dichloropropene	8.360	75	417724	162.667	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	229548	147.172	ug/l	98
56) Ethyl methacrylate	9.116	69	398535	158.205	ug/l	99
57) 1,3-Dichloropropane	9.305	76	403665	147.915	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	982120	794.010	ug/l	100
59) 2-Hexanone	9.433	43	1264470	736.622	ug/l	99
60) Dibromochloromethane	9.519	129	258320	154.862	ug/l	99
61) 1,2-Dibromoethane	9.604	107	240539	152.157	ug/l	99
64) Tetrachloroethene	9.269	164	184990	149.155	ug/l	96
65) Chlorobenzene	10.073	112	634550	150.224	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	212441	156.255	ug/l	99
67) Ethyl Benzene	10.189	91	1137842	152.647	ug/l	100
68) m/p-Xylenes	10.299	106	818971	297.841	ug/l	98
69) o-Xylene	10.640	106	401928	145.674	ug/l	99
70) Styrene	10.653	104	671843	151.140	ug/l	98
71) Bromoform	10.799	173	169481	167.033	ug/l #	98
73) Isopropylbenzene	10.957	105	1037402	151.869	ug/l	99
74) N-amyl acetate	10.841	43	521962	168.861	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	346013	147.409	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	284934m	151.485	ug/l	
77) Bromobenzene	11.195	156	234957	151.715	ug/l	99
78) n-propylbenzene	11.305	91	1231079	156.140	ug/l	99
79) 2-Chlorotoluene	11.360	91	717766	148.123	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	822707	148.415	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	126660	173.221	ug/l	98
82) 4-Chlorotoluene	11.451	91	818099	152.602	ug/l	99
83) tert-Butylbenzene	11.713	119	838979	149.610	ug/l	97
84) 1,2,4-Trimethylbenzene	11.750	105	838584	153.274	ug/l	99
85) sec-Butylbenzene	11.890	105	1061101	152.806	ug/l	100
86) p-Isopropyltoluene	12.006	119	865491	154.987	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	433384	152.175	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	432987	150.362	ug/l	100
89) n-Butylbenzene	12.329	91	827359	167.469	ug/l	100
90) Hexachloroethane	12.536	117	175414	167.760	ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	417167	149.042	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	73593	171.783	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	283004	167.095	ug/l	98
94) Hexachlorobutadiene	13.725	225	104674	155.682	ug/l	97
95) Naphthalene	13.774	128	1015801	165.916	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	282289	165.408	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044873.D
Acq On : 10 Feb 2025 12:28
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By : John Carlone 02/11/2025
Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 02:02:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

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

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

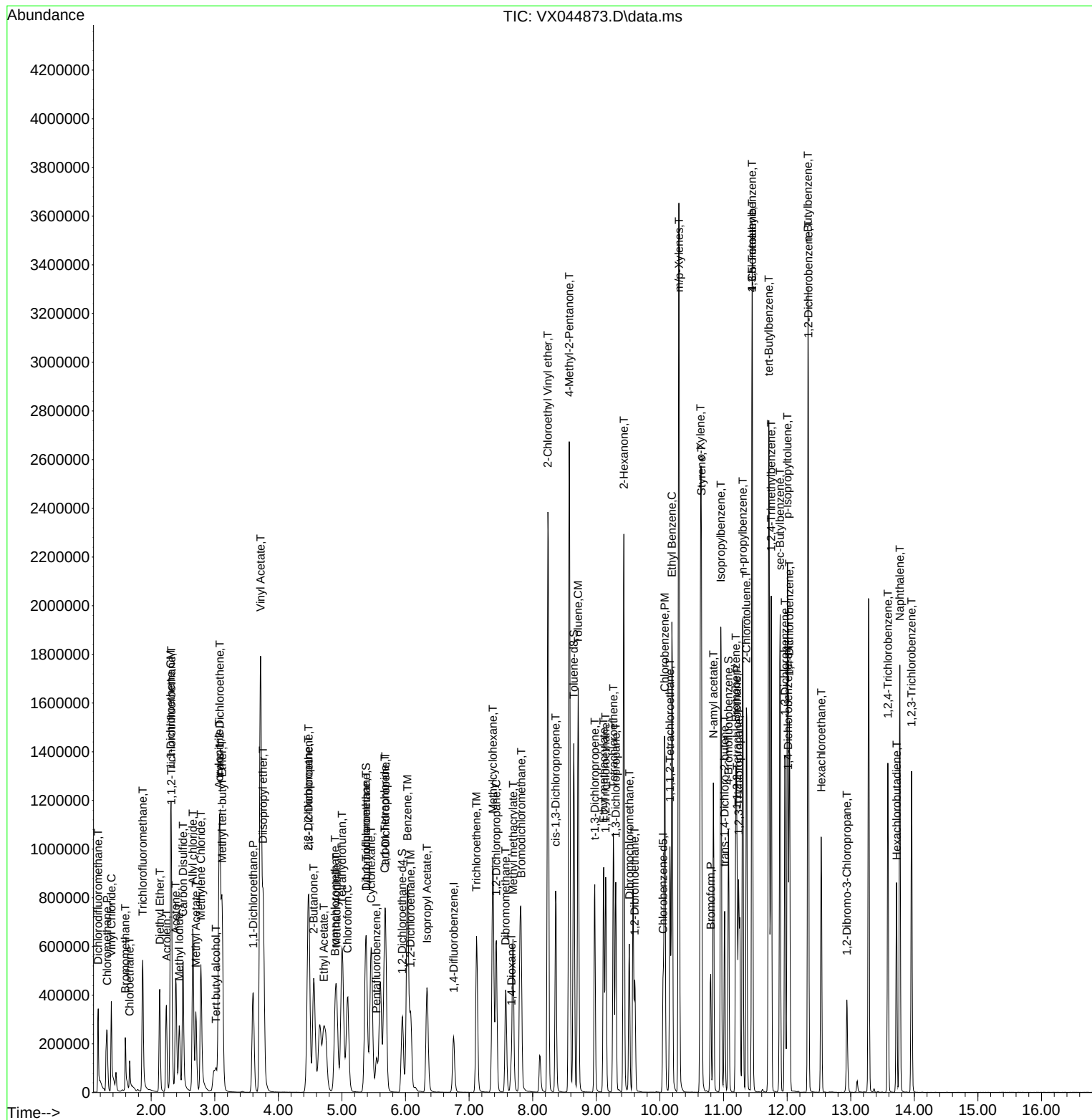
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\  
Data File : VX044873.D  
Acq On    : 10 Feb 2025  12:28  
Operator  : JC/MD  
Sample    : VSTDICC150  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 8   Sample Multiplier: 1
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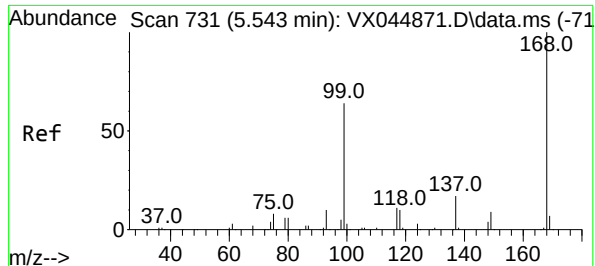
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

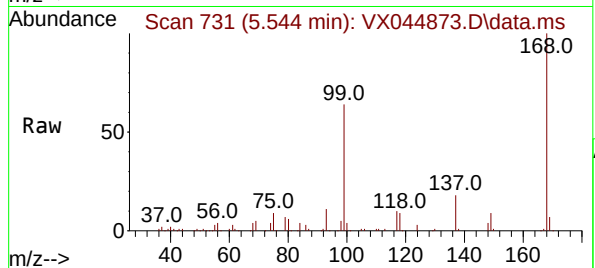
Quant Time: Feb 11 02:02:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. 0.001 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

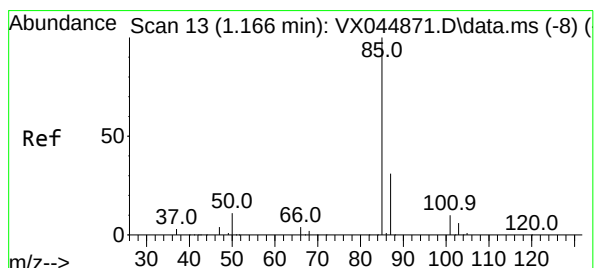
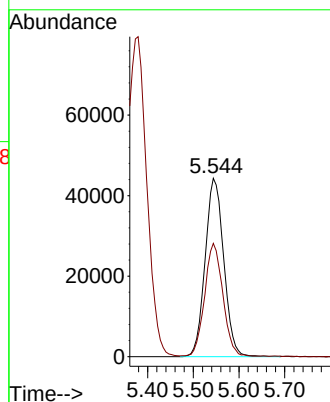
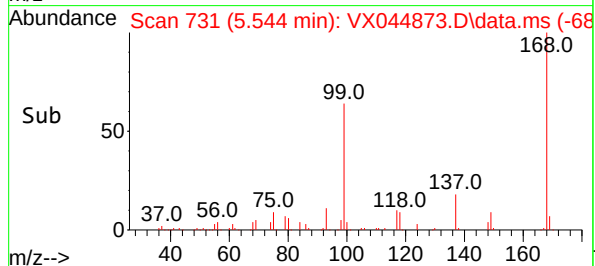
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:168 Resp: 12525
Ion Ratio Lower Upper
168 100
99 63.2 51.2 76.8

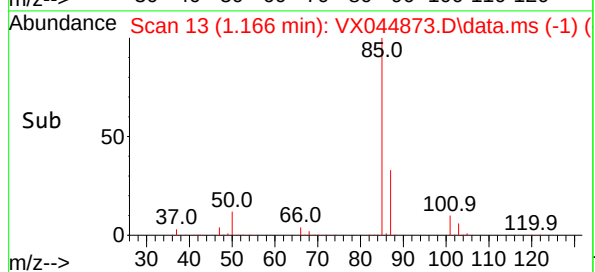
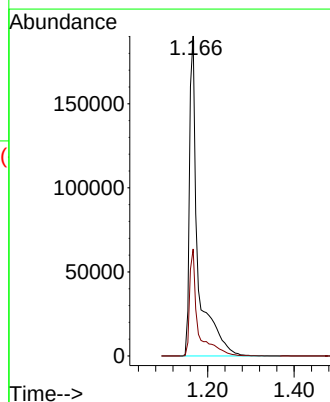
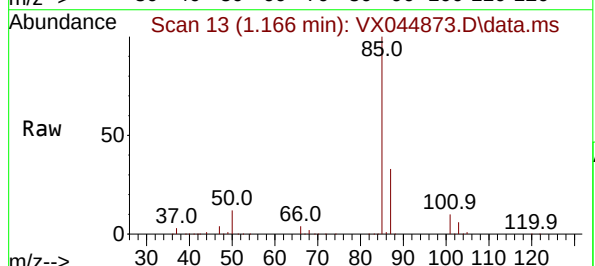
Manual Integrations
APPROVED

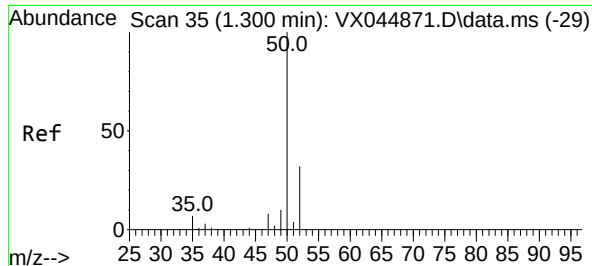
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#2
Dichlorodifluoromethane
Concen: 148.330 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 85 Resp: 260576
Ion Ratio Lower Upper
85 100
87 33.4 15.8 47.3





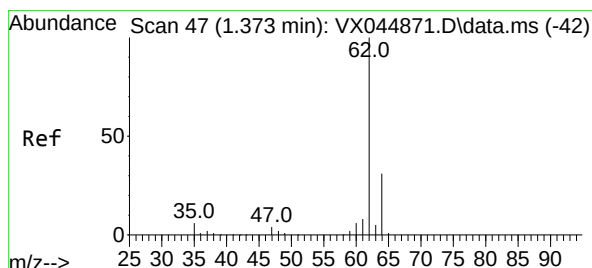
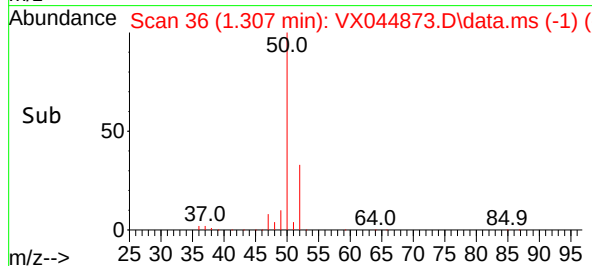
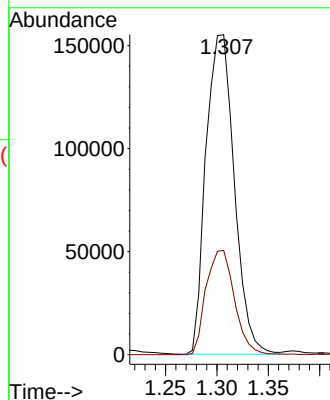
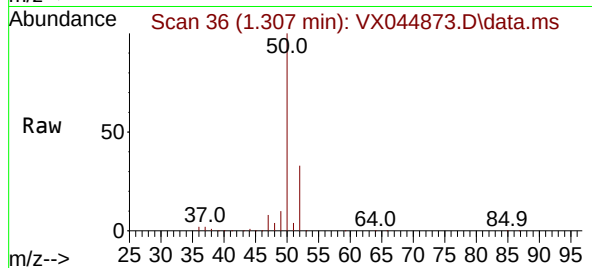
#3
Chloromethane
Concen: 139.361 ug/l
RT: 1.307 min Scan# 30
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 297968
Ion Ratio Lower Upper
50 100
52 32.7 25.9 38.9

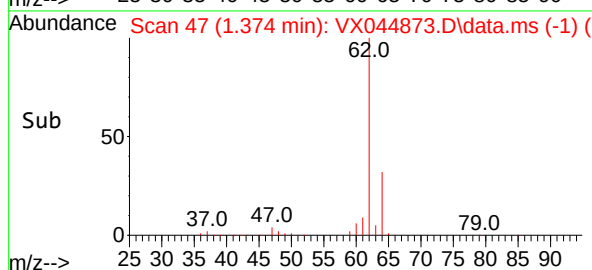
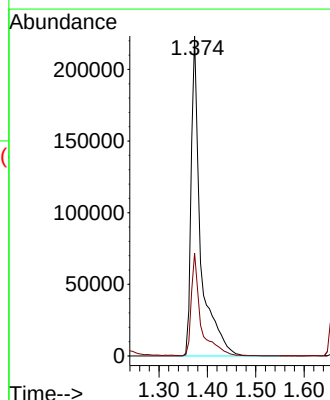
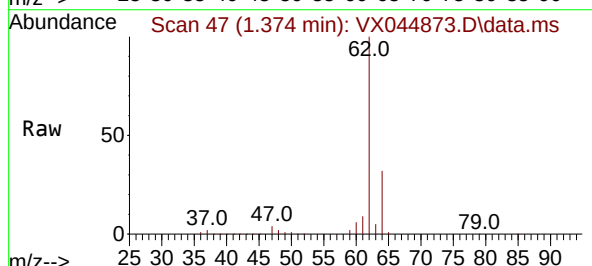
Manual Integrations
APPROVED

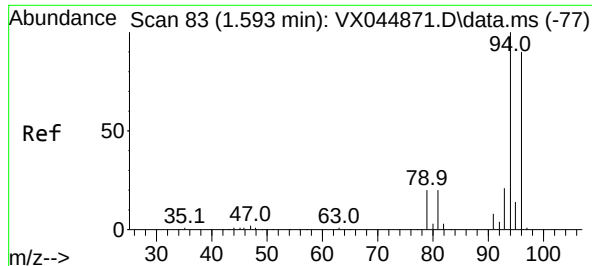
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#4
Vinyl Chloride
Concen: 147.723 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 62 Resp: 305986
Ion Ratio Lower Upper
62 100
64 32.1 25.4 38.0





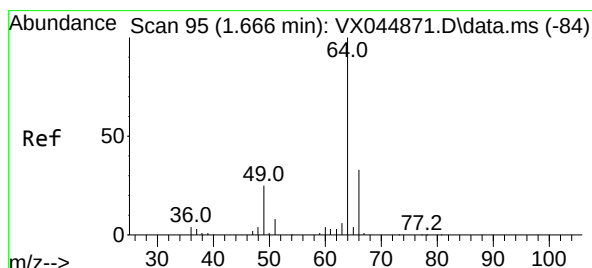
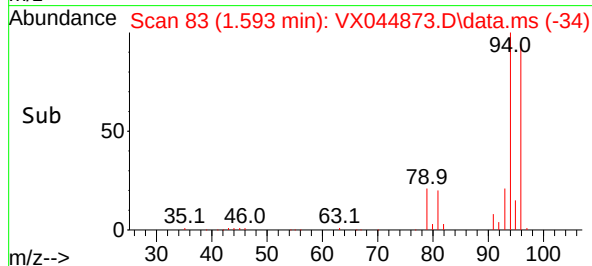
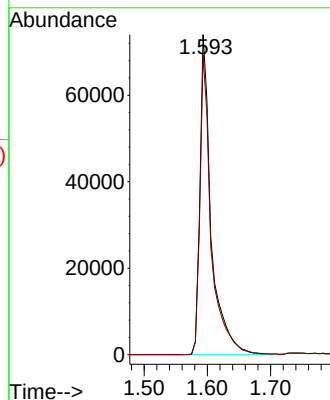
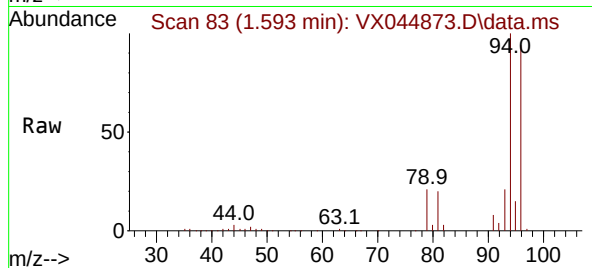
#5
Bromomethane
Concen: 149.071 ug/l
RT: 1.593 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 92399
Ion Ratio Lower Upper
94 100
96 93.6 71.6 107.4

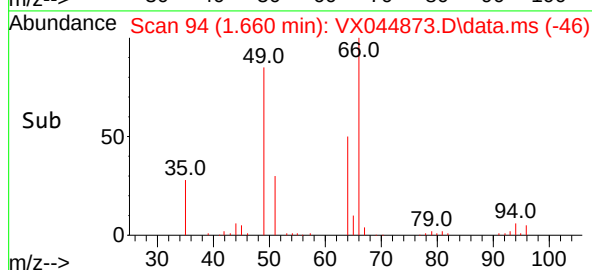
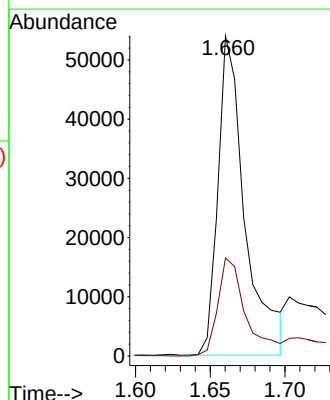
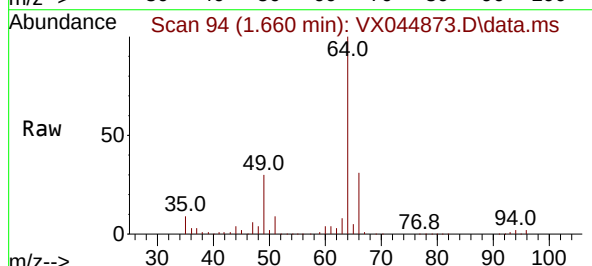
Manual Integrations
APPROVED

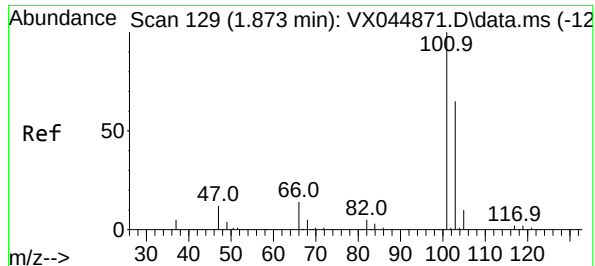
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#6
Chloroethane
Concen: 130.289 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

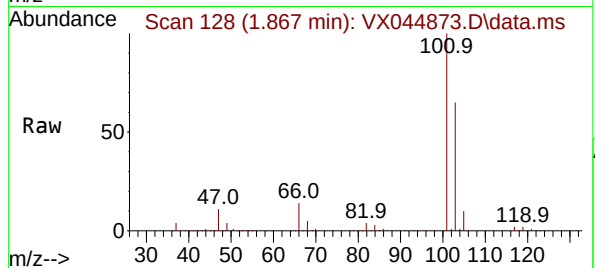
Tgt Ion: 64 Resp: 67889
Ion Ratio Lower Upper
64 100
66 30.7 25.9 38.9





#7
Trichlorofluoromethane
Concen: 144.558 ug/l
RT: 1.867 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

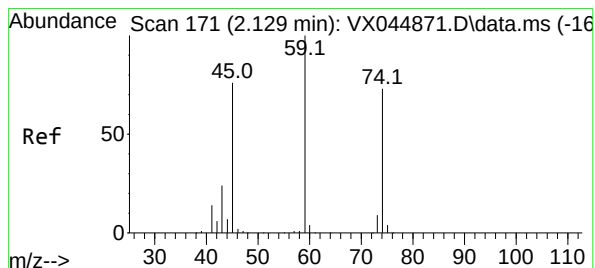
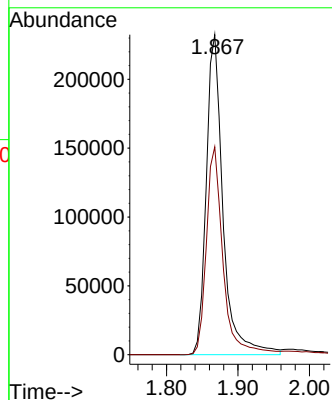
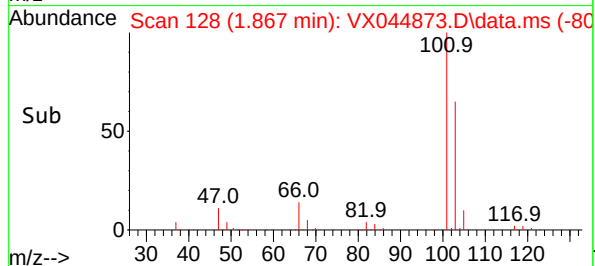
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:101 Resp: 378664
Ion Ratio Lower Upper
101 100
103 65.0 52.4 78.6

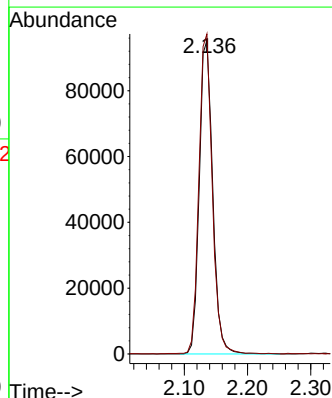
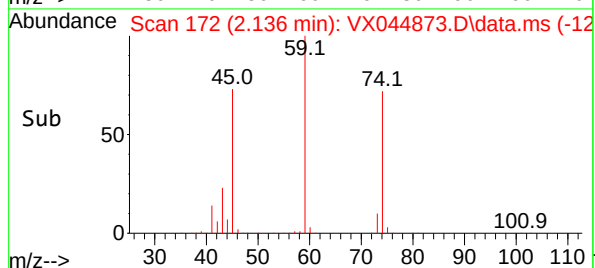
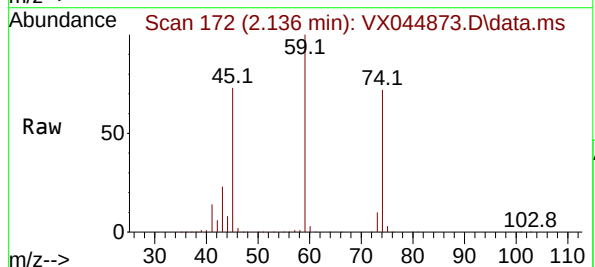
Manual Integrations
APPROVED

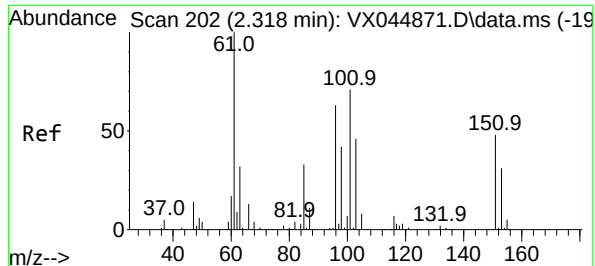
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#8
Diethyl Ether
Concen: 147.822 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 74 Resp: 140428
Ion Ratio Lower Upper
74 100
45 102.1 51.1 153.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 151.147 ug/l

RT: 2.319 min Scan# 202

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

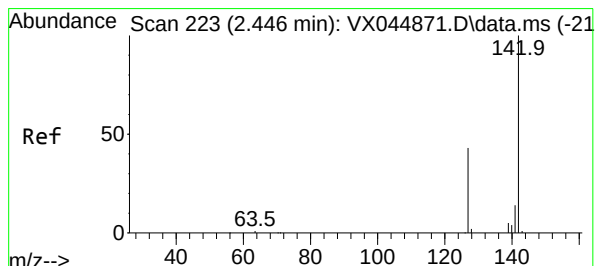
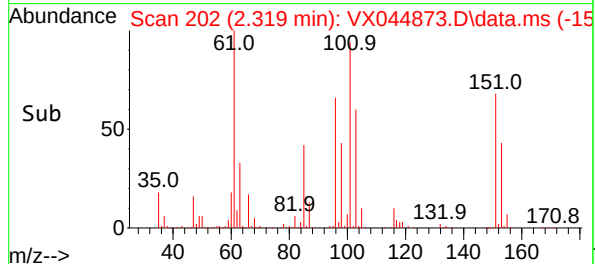
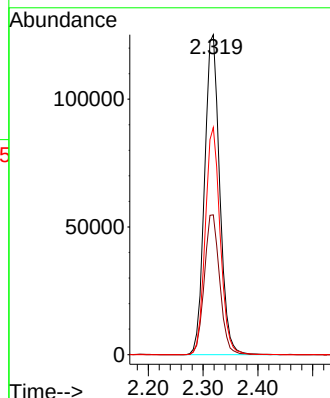
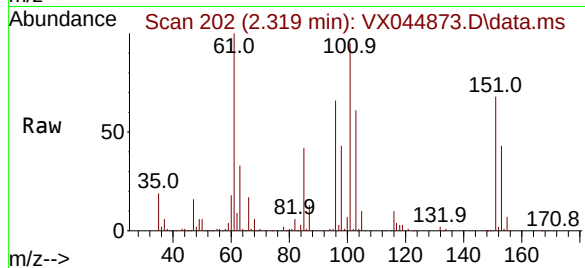
Tgt Ion:	101	Resp:	239215
Ion	Ratio	Lower	Upper
101	100		
85	44.5	35.7	53.5
151	70.2	56.0	84.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#10

Methyl Iodide

Concen: 148.887 ug/l

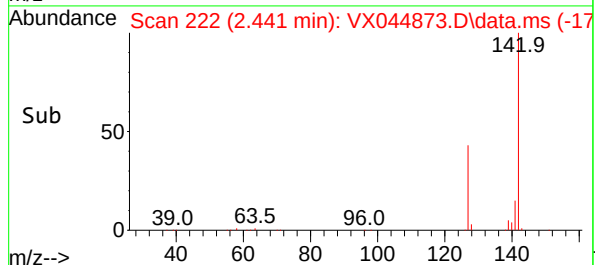
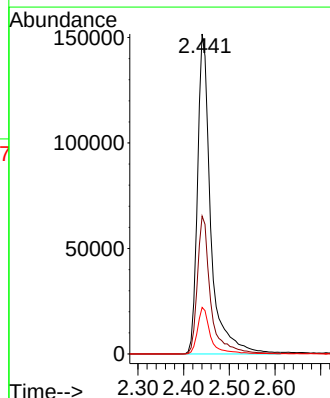
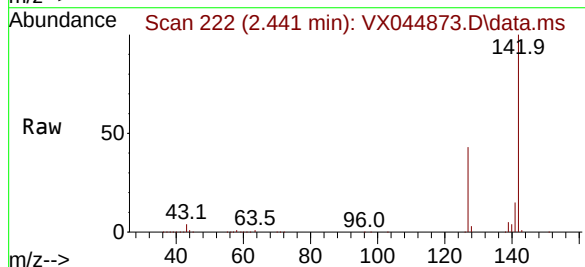
RT: 2.441 min Scan# 222

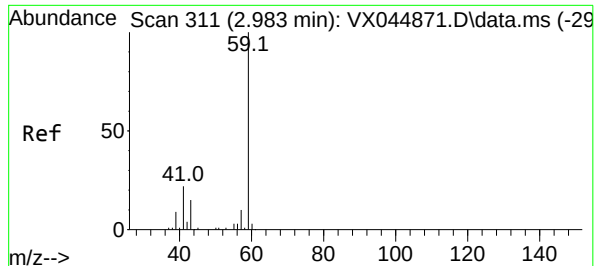
Delta R.T. -0.006 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Tgt Ion:	142	Resp:	305390
Ion	Ratio	Lower	Upper
142	100		
127	43.1	34.3	51.5
141	14.4	11.4	17.2





#11

Tert butyl alcohol

Concen: 712.734 ug/l

RT: 3.020 min Scan# 311

Delta R.T. 0.037 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 59 Resp: 242430

Ion Ratio Lower Upper

59 100

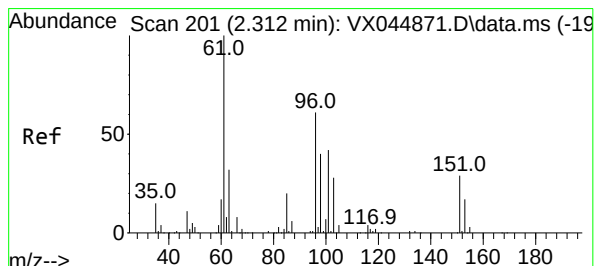
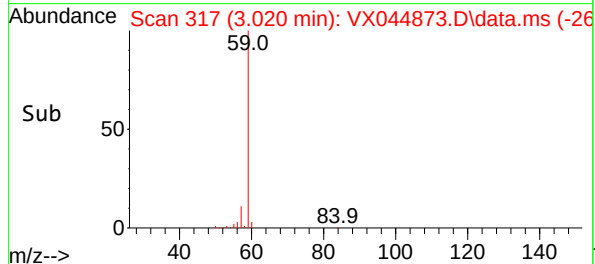
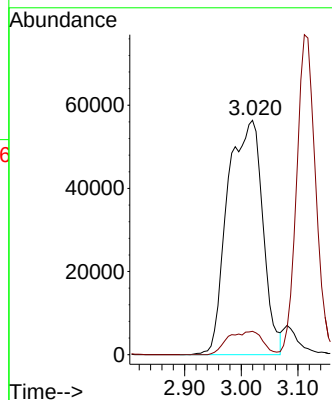
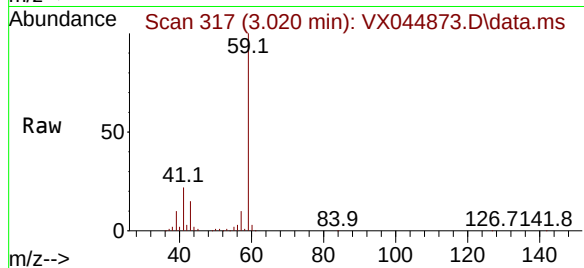
57 9.9 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#12

1,1-Dichloroethene

Concen: 152.989 ug/l

RT: 2.306 min Scan# 200

Delta R.T. -0.006 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

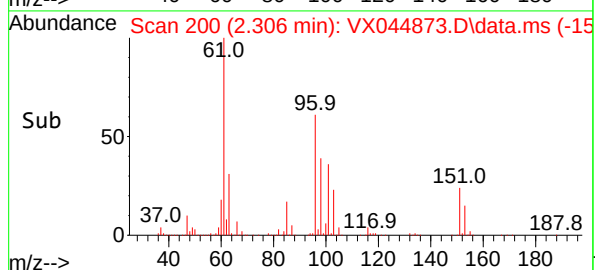
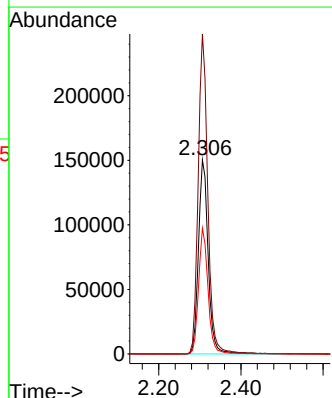
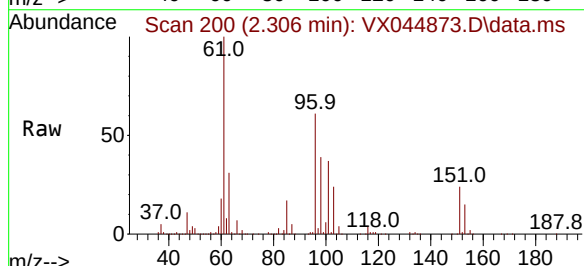
Tgt Ion: 96 Resp: 246987

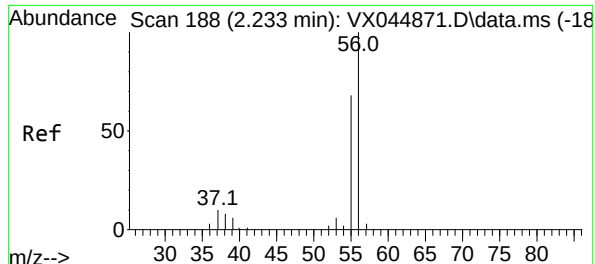
Ion Ratio Lower Upper

96 100

61 164.9 130.2 195.4

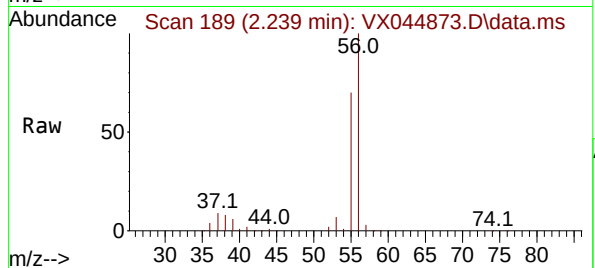
98 64.8 52.2 78.4





#13
Acrolein
Concen: 778.418 ug/l
RT: 2.239 min Scan# 188
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

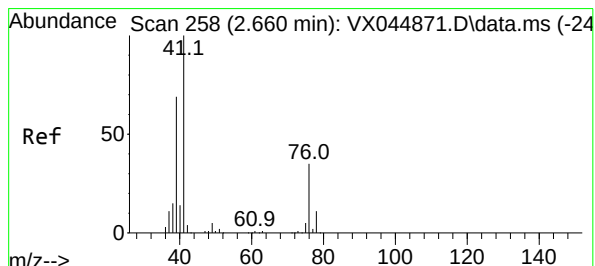
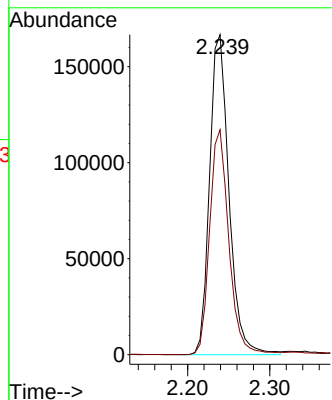
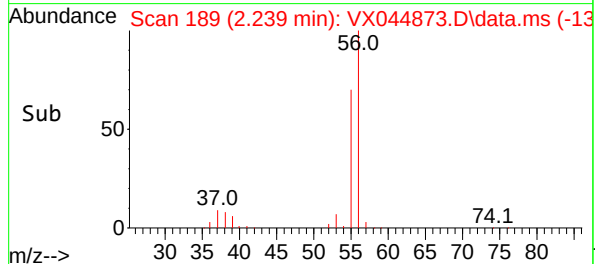
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 56 Resp: 273178
Ion Ratio Lower Upper
56 100
55 69.6 55.7 83.5

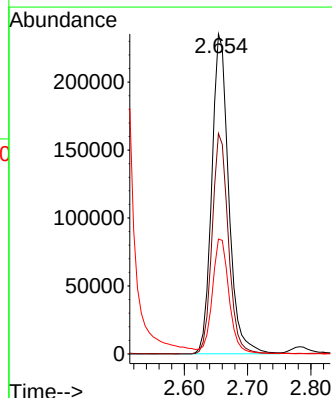
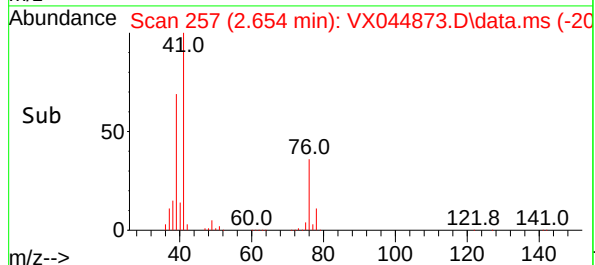
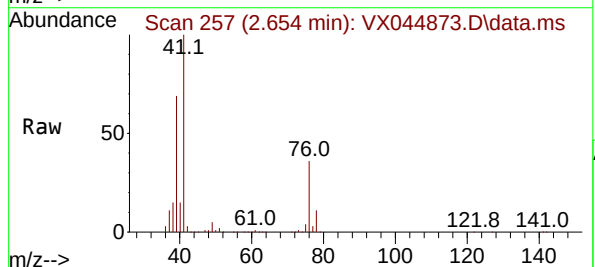
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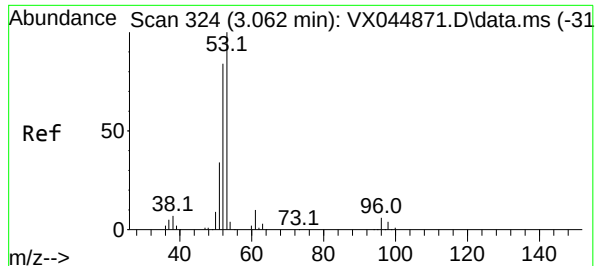
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#14
Allyl chloride
Concen: 150.289 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 41 Resp: 438493
Ion Ratio Lower Upper
41 100
39 66.1 51.4 77.2
76 35.7 27.0 40.4





#15

Acrylonitrile

Concen: 753.423 ug/l

RT: 3.068 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 53 Resp: 684234

Ion Ratio Lower Upper

53 100

52 82.9 65.0 97.6

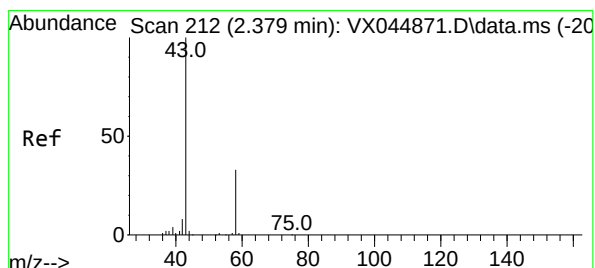
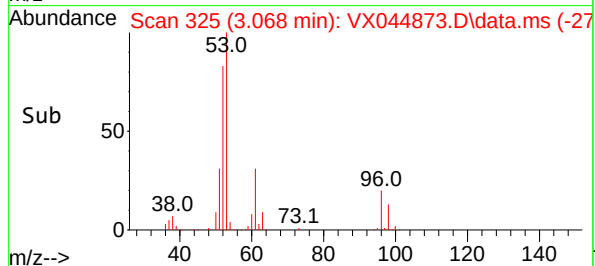
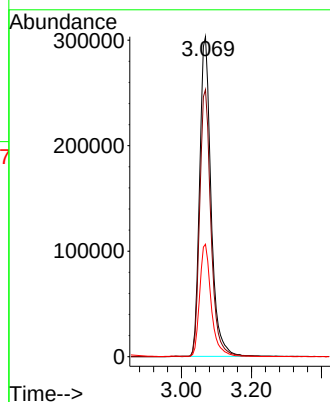
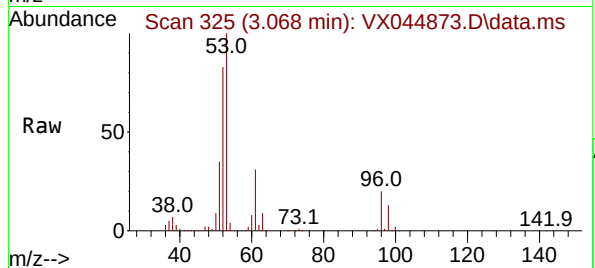
51 35.2 28.0 42.0

Manual Integrations

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Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#16

Acetone

Concen: 743.398 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.006 min

Lab File: VX044873.D

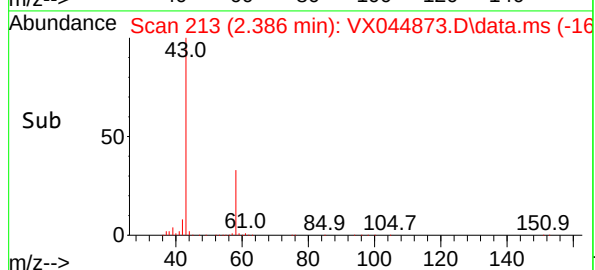
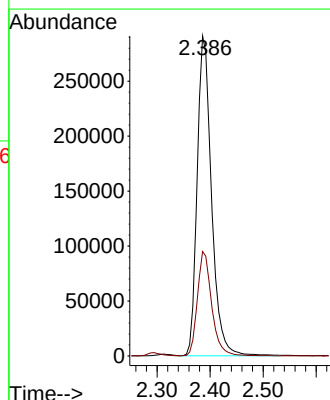
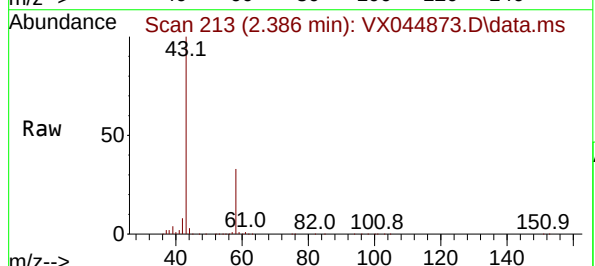
Acq: 10 Feb 2025 12:28

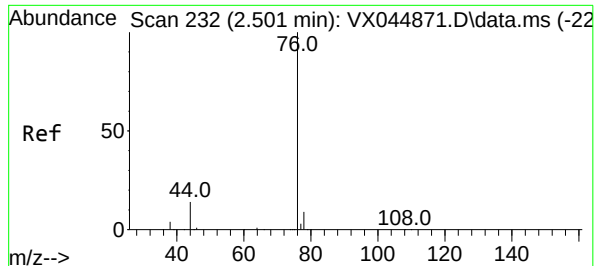
Tgt Ion: 43 Resp: 547939

Ion Ratio Lower Upper

43 100

58 32.6 26.5 39.7





#17

Carbon Disulfide

Concen: 156.665 ug/l

RT: 2.502 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 76 Resp: 693558

Ion Ratio Lower Upper

76 100

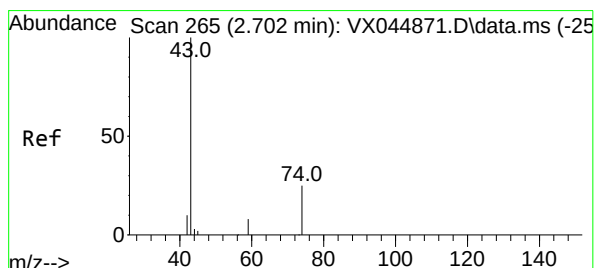
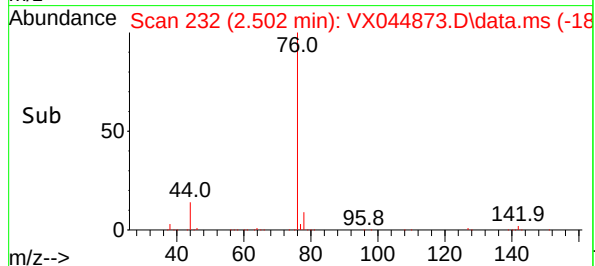
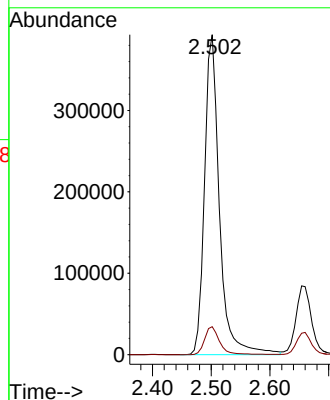
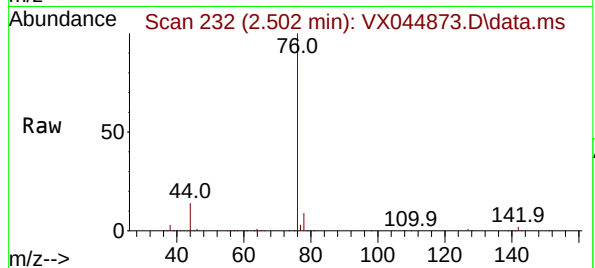
78 8.8 7.0 10.4

Manual Integrations

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Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#18

Methyl Acetate

Concen: 160.743 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX044873.D

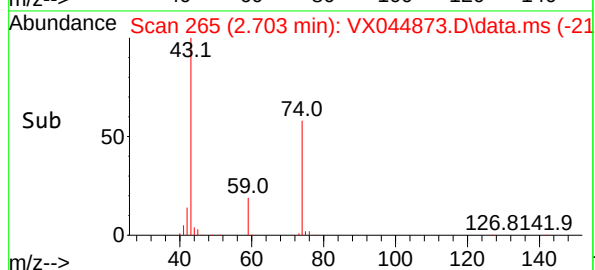
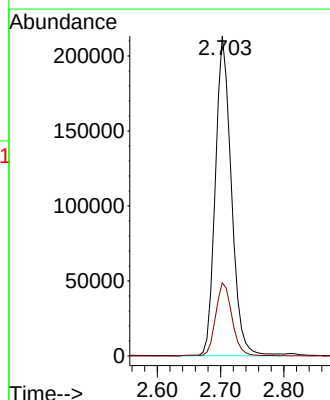
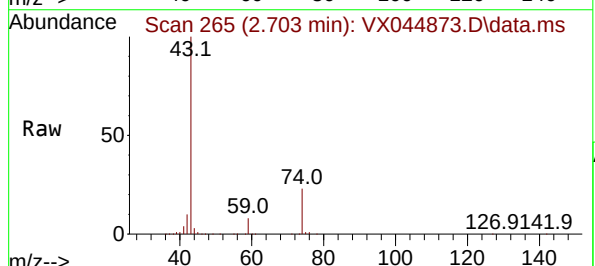
Acq: 10 Feb 2025 12:28

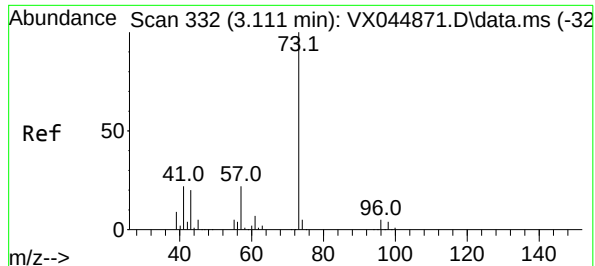
Tgt Ion: 43 Resp: 373877

Ion Ratio Lower Upper

43 100

74 23.7 18.9 28.3





#19

Methyl tert-butyl Ether

Concen: 154.347 ug/l

RT: 3.117 min Scan# 311

Delta R.T. 0.006 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 73 Resp: 792810

Ion Ratio Lower Upper

73 100

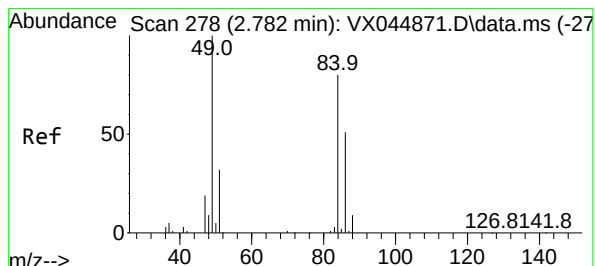
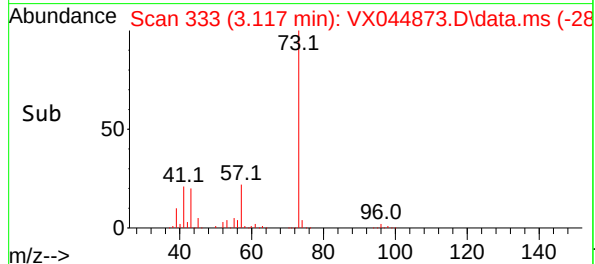
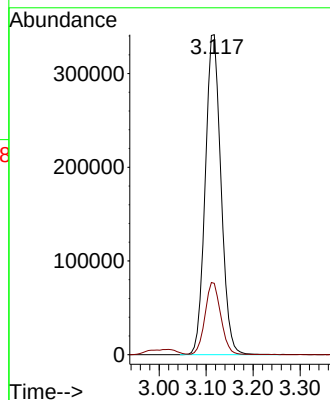
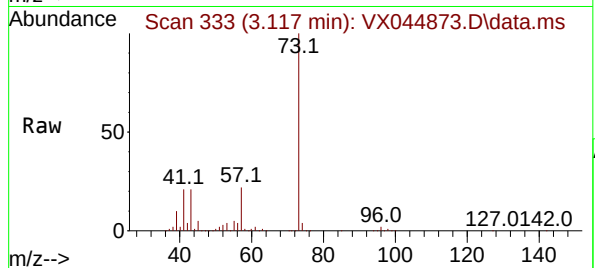
57 22.3 17.9 26.9

Manual Integrations

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Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#20

Methylene Chloride

Concen: 149.871 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Tgt Ion: 84 Resp: 270575

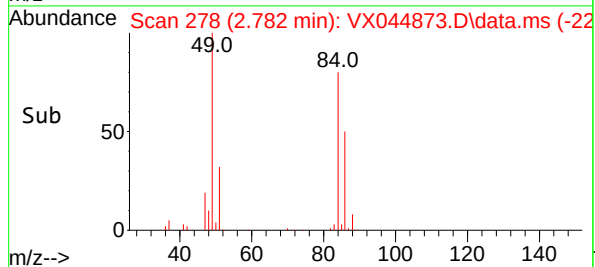
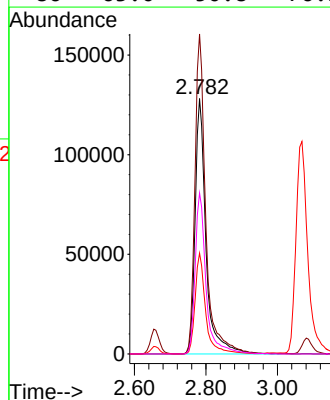
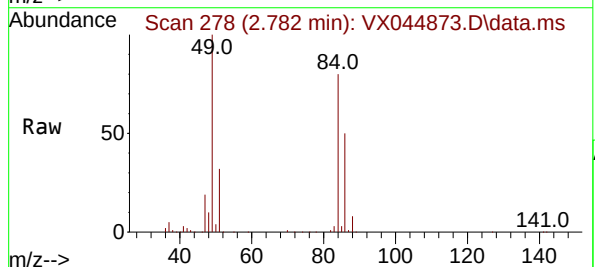
Ion Ratio Lower Upper

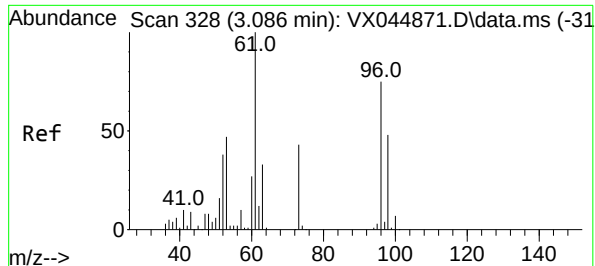
84 100

49 125.2 100.1 150.1

51 39.5 31.7 47.5

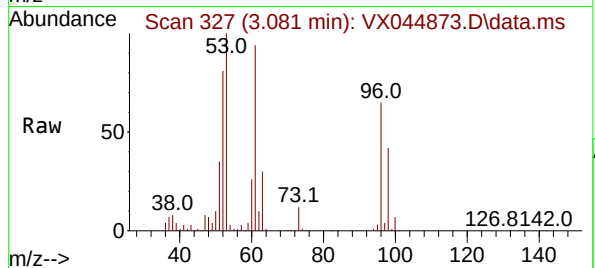
86 63.0 50.8 76.2





#21
trans-1,2-Dichloroethene
Concen: 152.356 ug/l
RT: 3.081 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

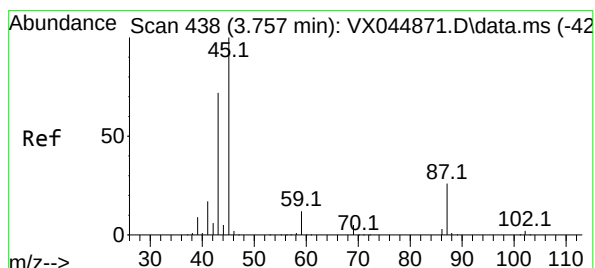
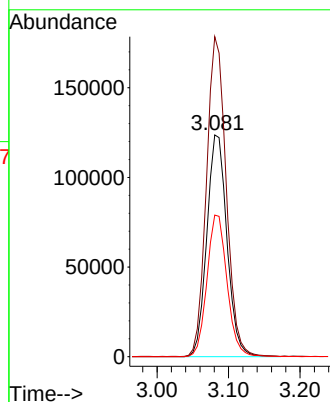
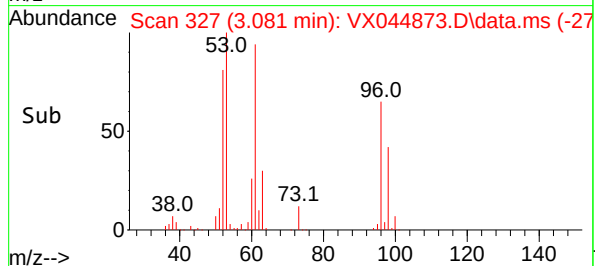
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 96 Resp: 24208
Ion Ratio Lower Upper
96 100
61 144.2 106.0 159.0
98 63.9 50.6 76.0

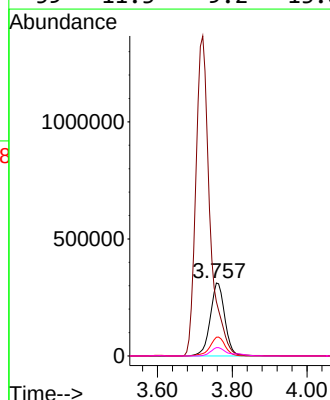
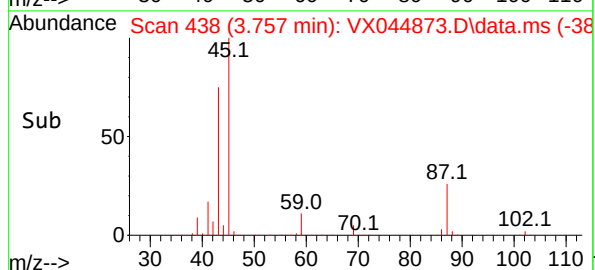
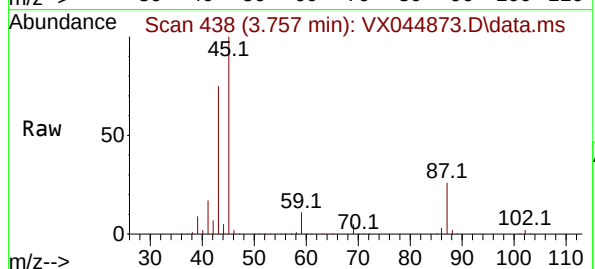
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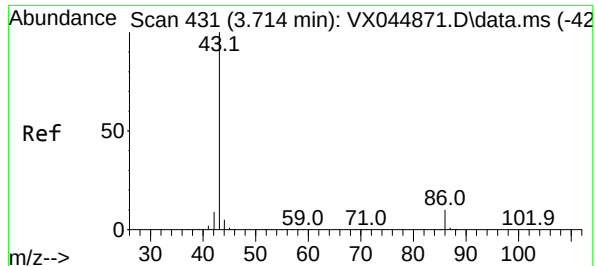
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#22
Diisopropyl ether
Concen: 152.020 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 45 Resp: 839126
Ion Ratio Lower Upper
45 100
43 74.6 58.0 87.0
87 25.8 20.7 31.1
59 11.3 9.2 13.8





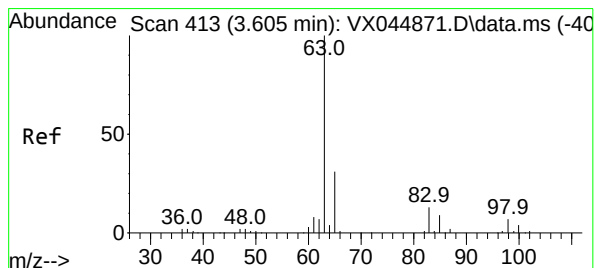
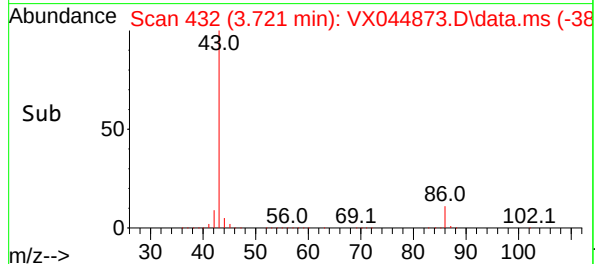
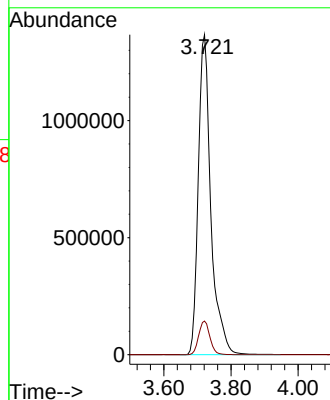
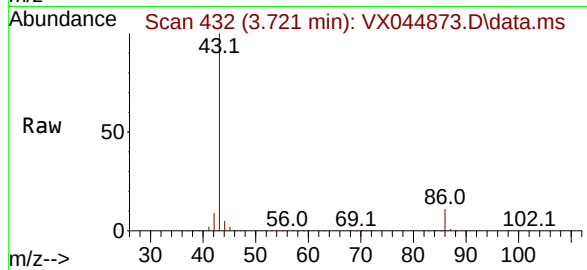
#23
Vinyl Acetate
Concen: 789.993 ug/l
RT: 3.721 min Scan# 413
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 355503
Ion Ratio Lower Upper
43 100
86 10.5 8.3 12.5

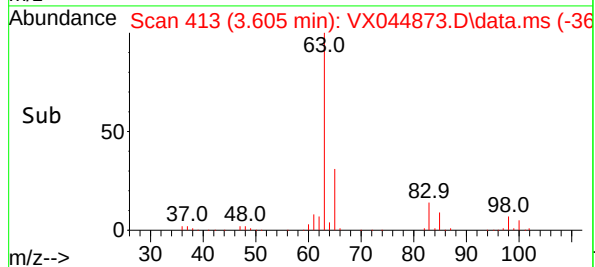
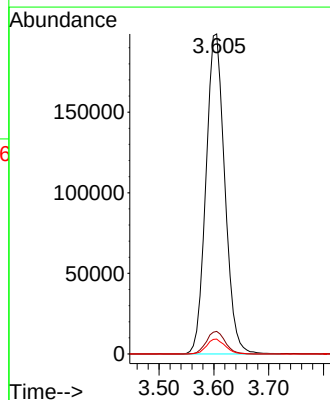
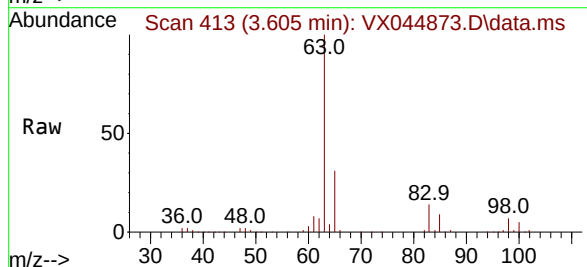
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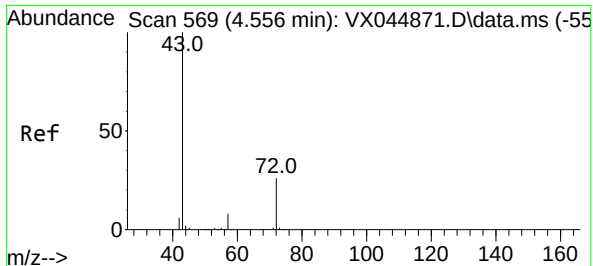
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#24
1,1-Dichloroethane
Concen: 152.959 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 63 Resp: 472424
Ion Ratio Lower Upper
63 100
98 7.1 3.3 9.9
100 4.6 2.1 6.5





#25

2-Butanone

Concen: 764.276 ug/l

RT: 4.556 min Scan# 569

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 91474

Ion Ratio Lower Upper

43 100

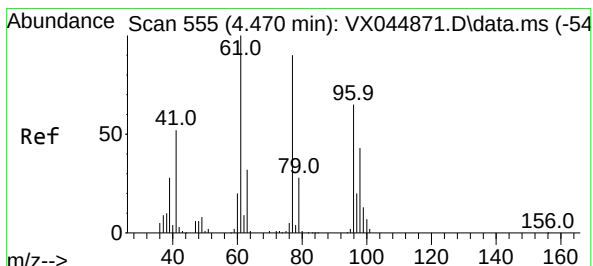
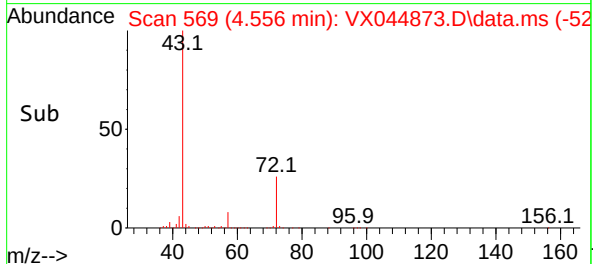
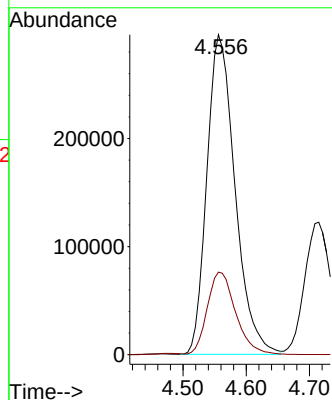
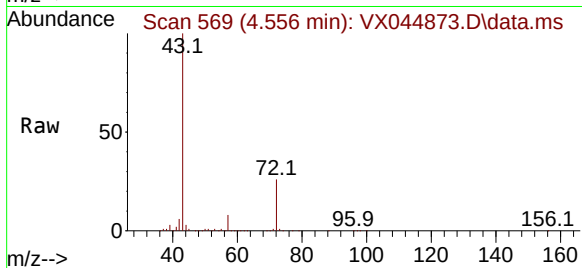
72 25.6 21.2 31.8

Manual Integrations

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Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#26

2,2-Dichloropropane

Concen: 156.029 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.000 min

Lab File: VX044873.D

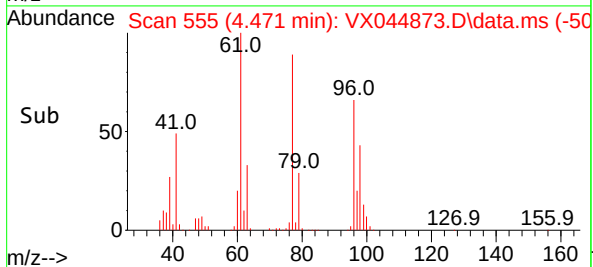
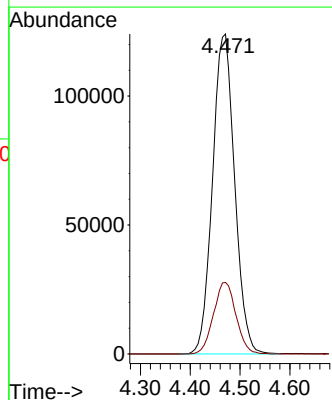
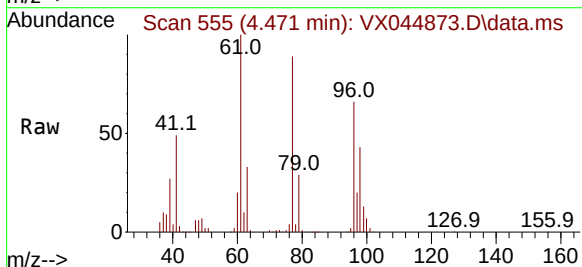
Acq: 10 Feb 2025 12:28

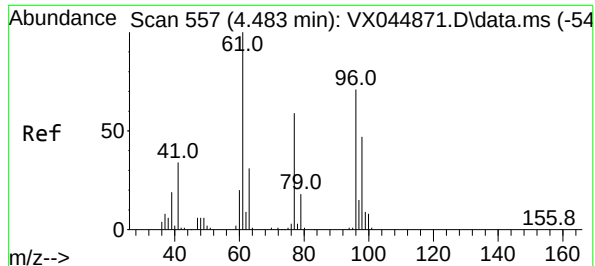
Tgt Ion: 77 Resp: 382167

Ion Ratio Lower Upper

77 100

97 22.7 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 153.446 ug/l

RT: 4.477 min Scan# 556

Delta R.T. -0.006 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 96 Resp: 292864

Ion Ratio Lower Upper

96 100

61 148.1 0.0 294.0

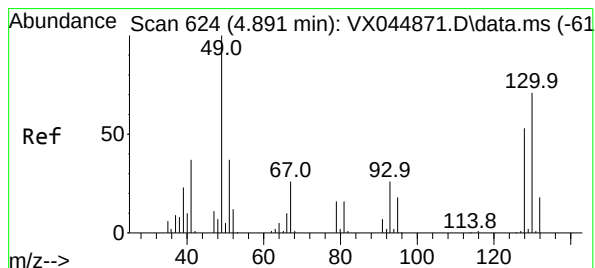
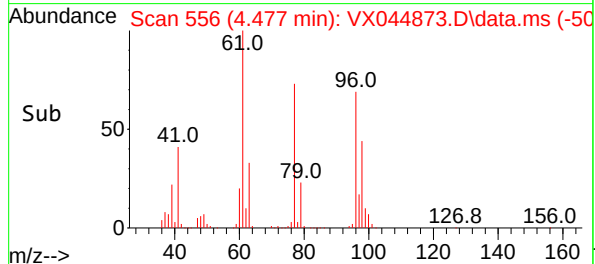
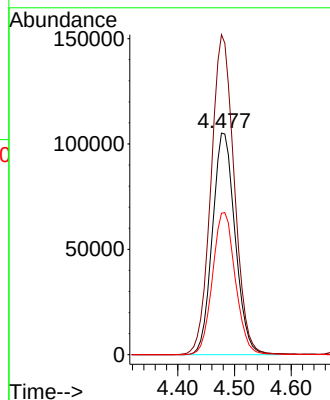
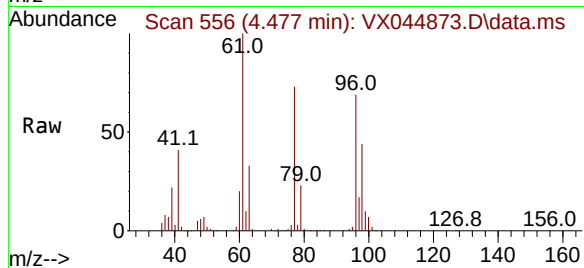
98 64.6 0.0 131.2

Manual Integrations

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Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#28

Bromochloromethane

Concen: 146.458 ug/l

RT: 4.891 min Scan# 624

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

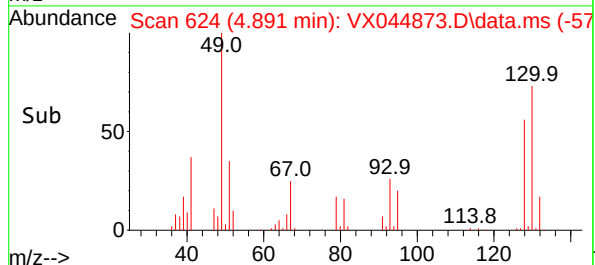
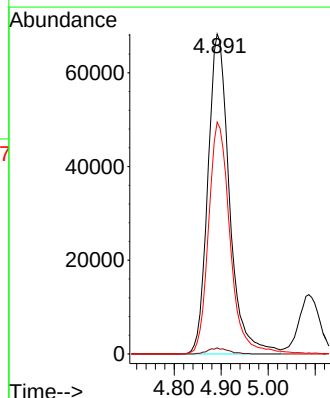
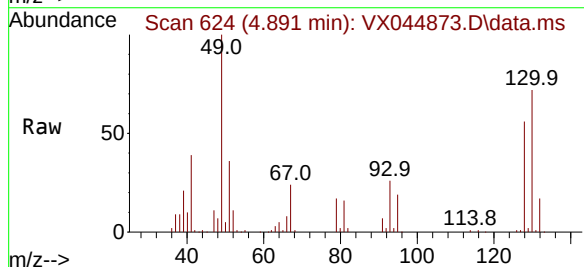
Tgt Ion: 49 Resp: 217387

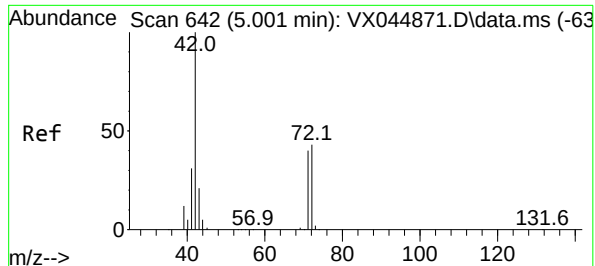
Ion Ratio Lower Upper

49 100

129 1.8 0.0 3.6

130 72.6 56.7 85.1





#29

Tetrahydrofuran

Concen: 749.977 ug/l

RT: 5.001 min Scan# 642

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 42 Resp: 596049

Ion Ratio Lower Upper

42 100

72 44.5 35.0 52.4

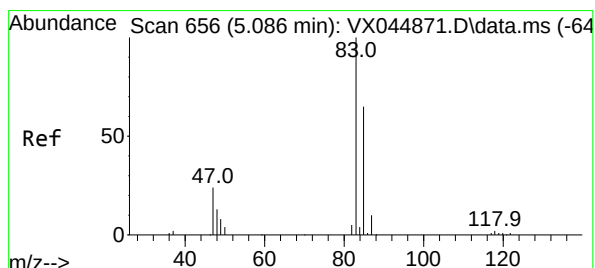
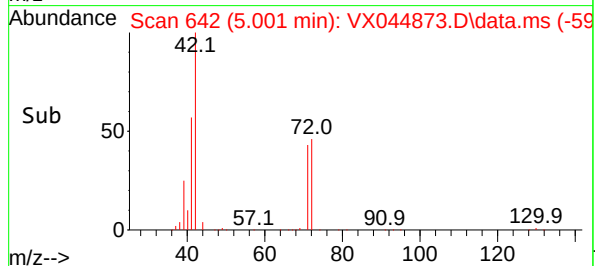
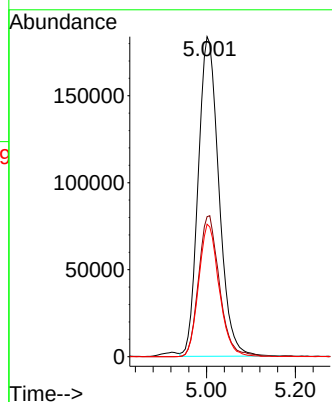
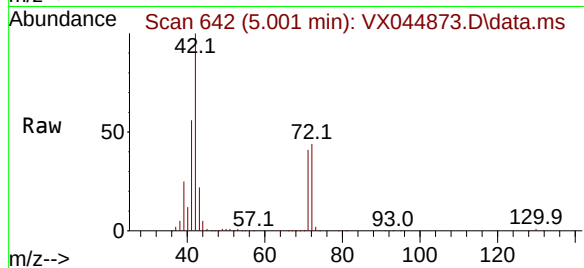
71 41.0 32.6 48.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#30

Chloroform

Concen: 151.509 ug/l

RT: 5.086 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX044873.D

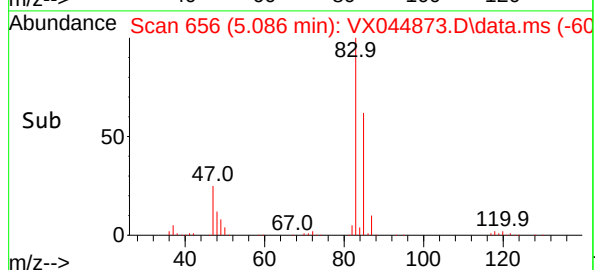
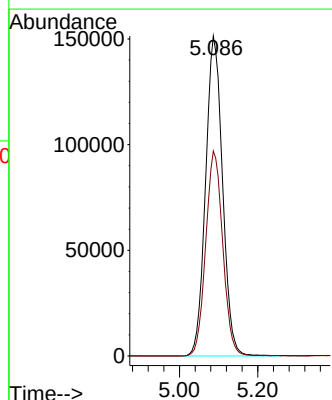
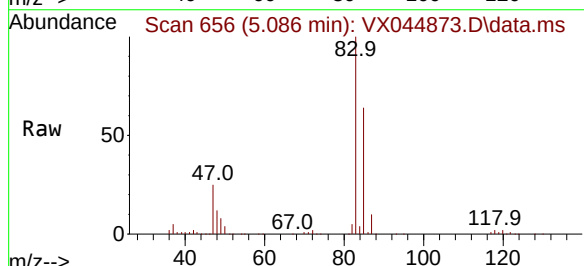
Acq: 10 Feb 2025 12:28

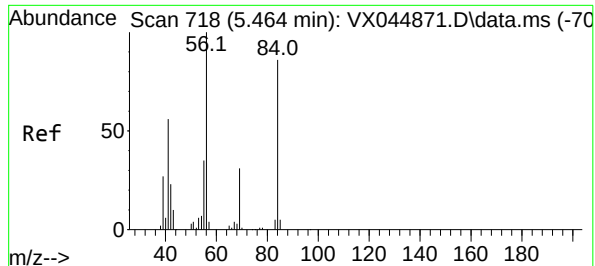
Tgt Ion: 83 Resp: 453809

Ion Ratio Lower Upper

83 100

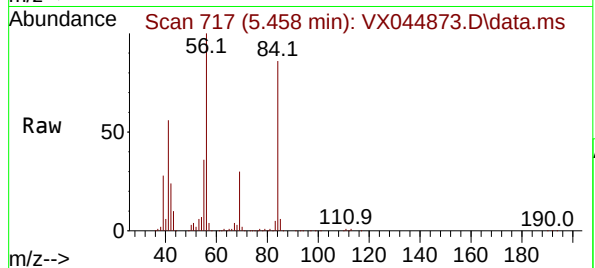
85 64.1 52.1 78.1





#31
Cyclohexane
Concen: 148.722 ug/l
RT: 5.458 min Scan# 717
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

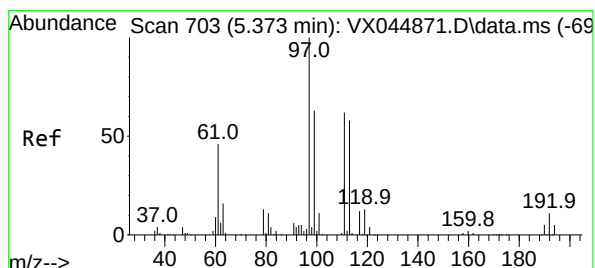
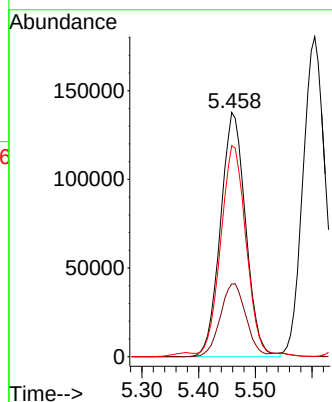
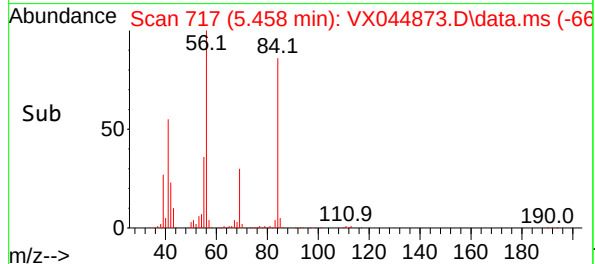
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 56 Resp: 423464
Ion Ratio Lower Upper
56 100
69 29.7 24.4 36.6
84 85.0 69.0 103.6

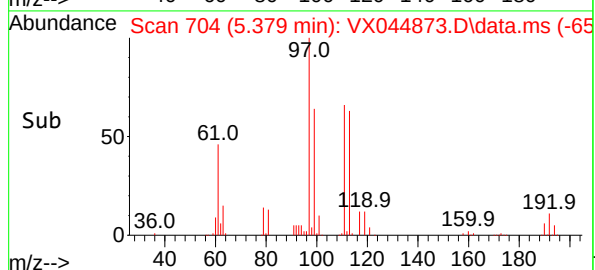
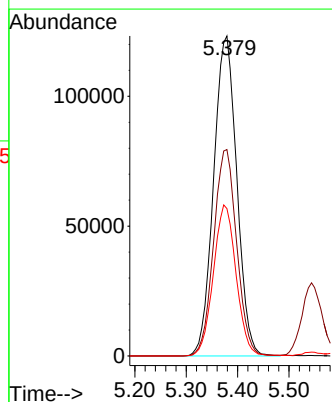
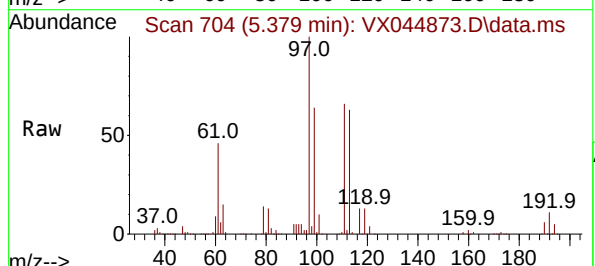
Manual Integrations
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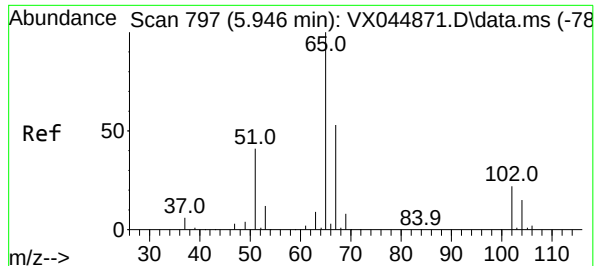
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#32
1,1,1-Trichloroethane
Concen: 151.996 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 97 Resp: 386162
Ion Ratio Lower Upper
97 100
99 64.2 51.0 76.6
61 46.4 36.6 55.0





#33

1,2-Dichloroethane-d4

Concen: 153.180 ug/l

RT: 5.946 min Scan# 797

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 65 Resp: 28085

Ion Ratio Lower Upper

65 100

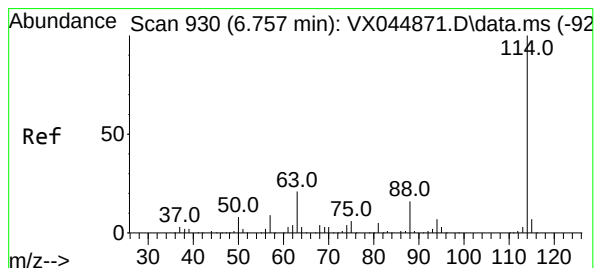
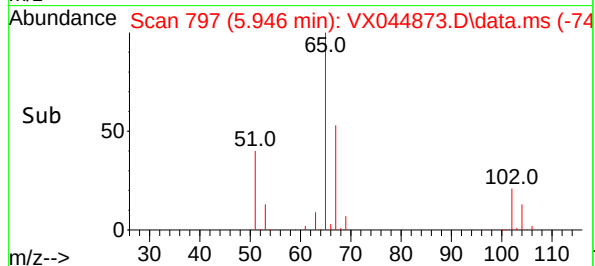
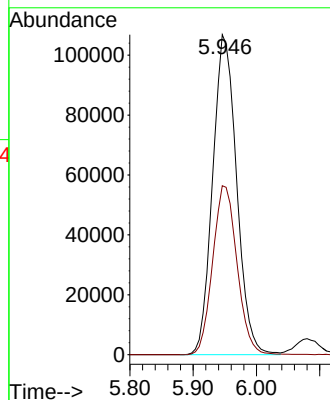
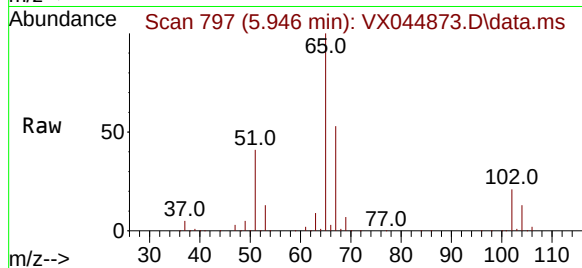
67 53.7 0.0 108.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

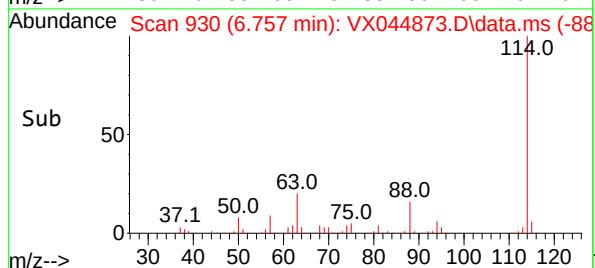
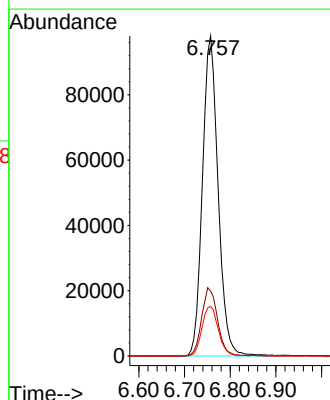
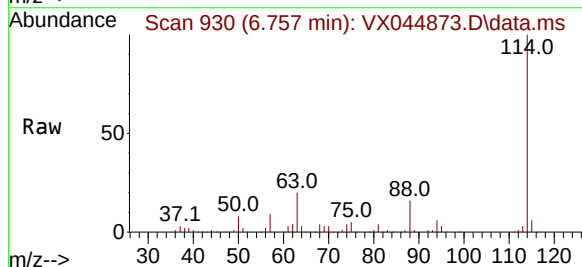
Tgt Ion:114 Resp: 232597

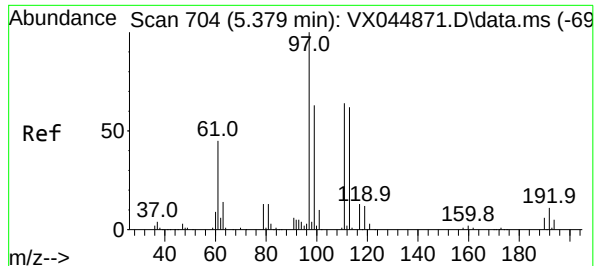
Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.4

88 15.5 0.0 31.4





#35

Dibromofluoromethane

Concen: 151.572 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:113 Resp: 229218

Ion Ratio Lower Upper

113 100

111 102.5 83.5 125.3

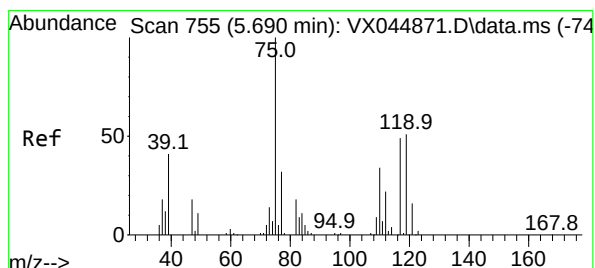
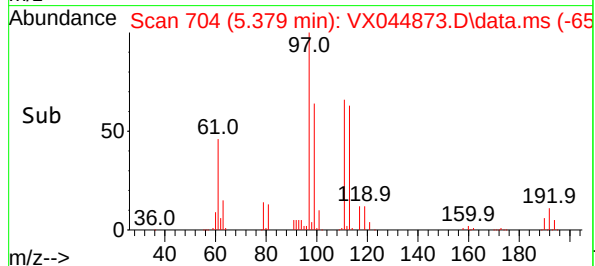
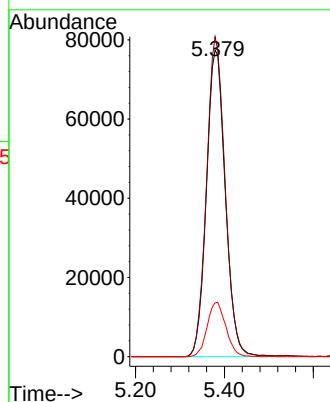
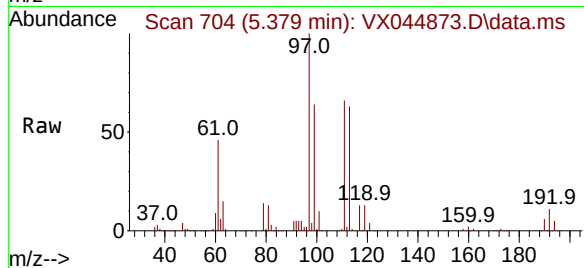
192 17.6 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#36

1,1-Dichloropropene

Concen: 148.585 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

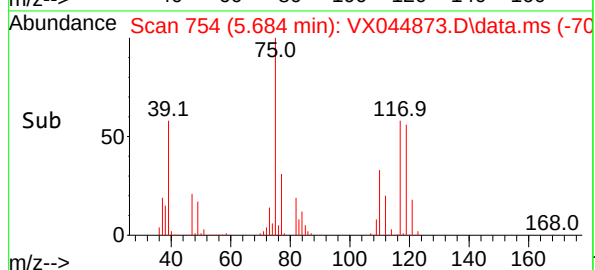
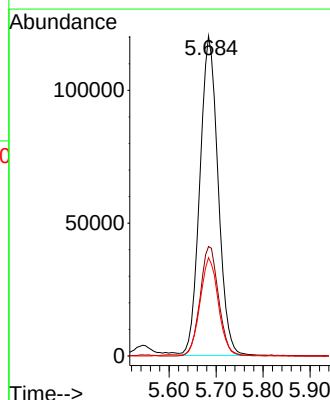
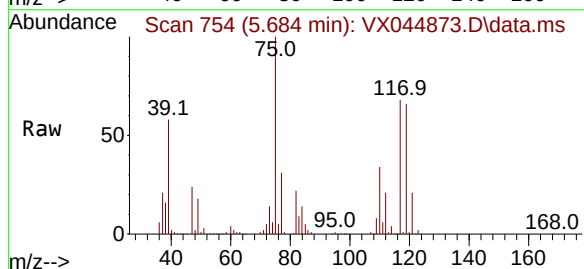
Tgt Ion: 75 Resp: 324182

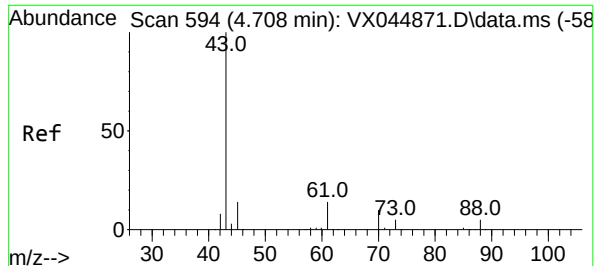
Ion Ratio Lower Upper

75 100

110 34.8 17.2 51.6

77 30.9 24.6 37.0





#37

Ethyl Acetate

Concen: 151.956 ug/l

RT: 4.715 min Scan# 594

Delta R.T. 0.006 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 36876

Ion Ratio Lower Upper

43 100

61 13.5 11.0 16.4

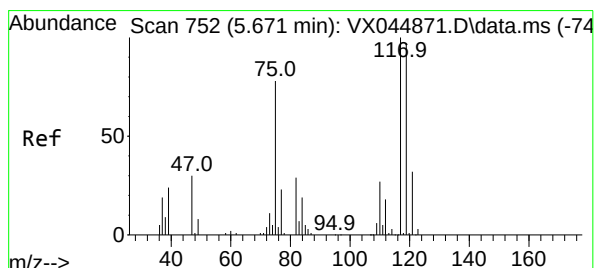
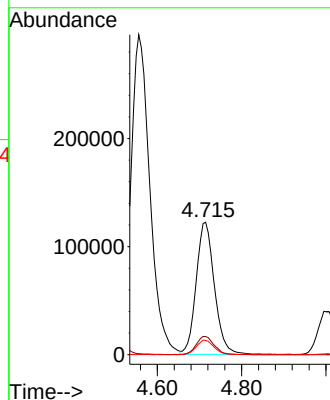
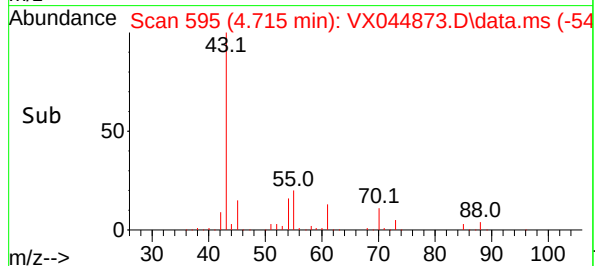
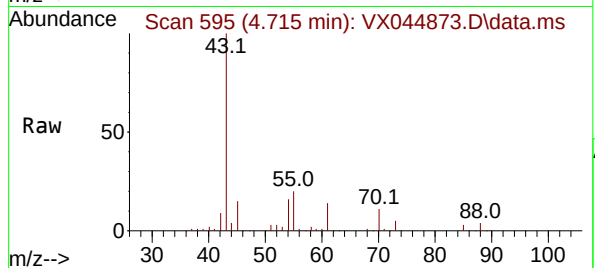
70 10.6 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#38

Carbon Tetrachloride

Concen: 149.921 ug/l

RT: 5.672 min Scan# 752

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

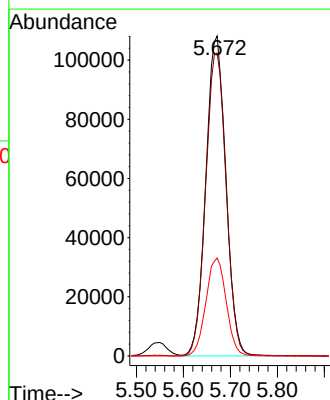
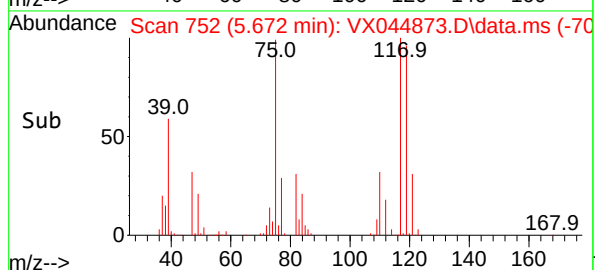
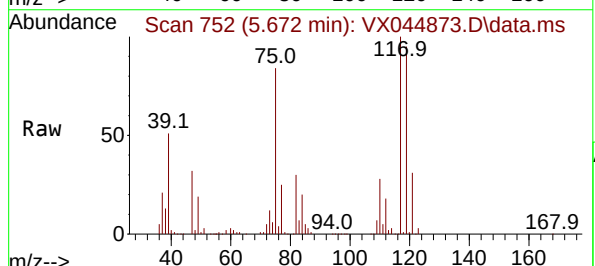
Tgt Ion:117 Resp: 320536

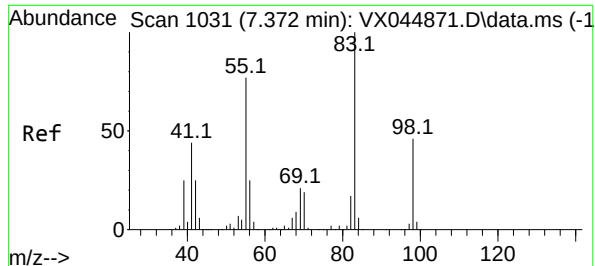
Ion Ratio Lower Upper

117 100

119 94.7 77.5 116.3

121 30.6 25.6 38.4





#39

Methylcyclohexane

Concen: 157.130 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 443218

Ion Ratio Lower Upper

83 100

55 76.5 61.3 91.9

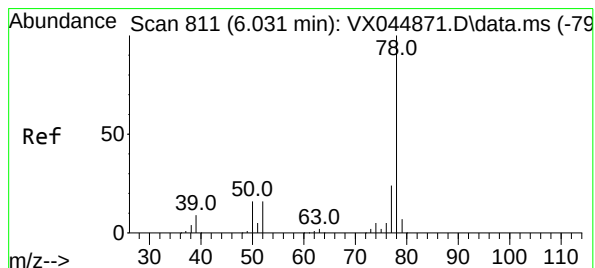
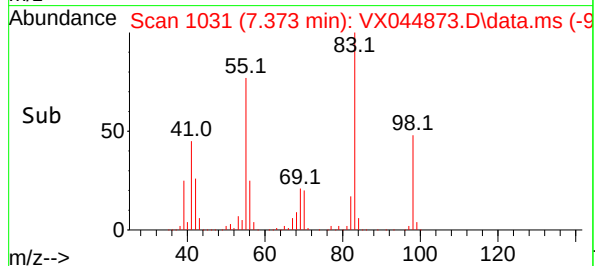
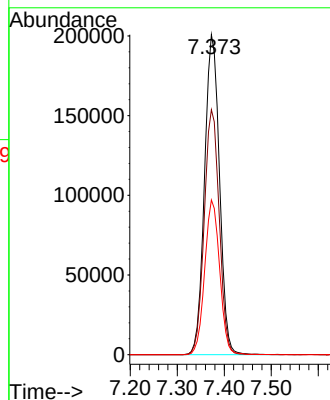
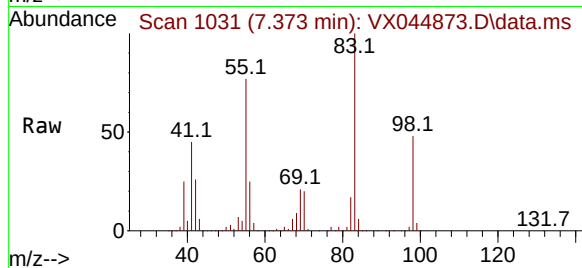
98 48.4 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#40

Benzene

Concen: 148.856 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX044873.D

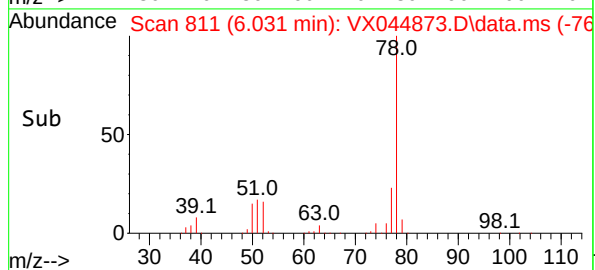
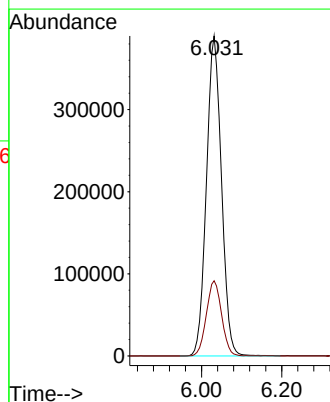
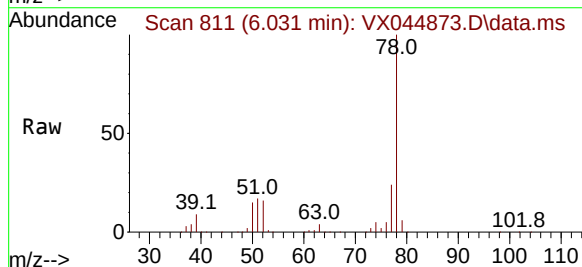
Acq: 10 Feb 2025 12:28

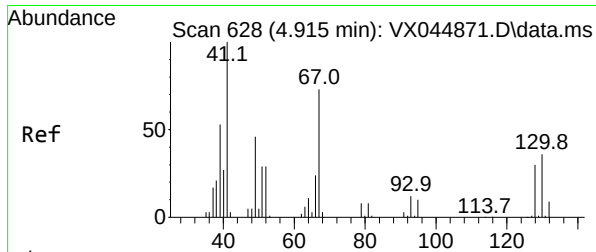
Tgt Ion: 78 Resp: 1014129

Ion Ratio Lower Upper

78 100

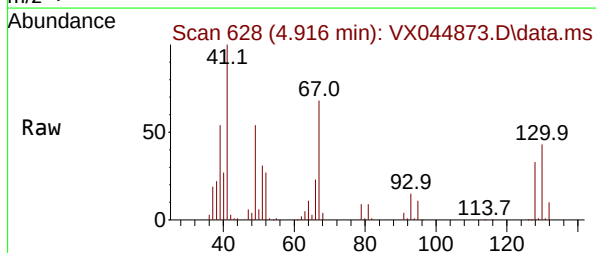
77 23.5 19.0 28.6





#41
Methacrylonitrile
Concen: 158.707 ug/l
RT: 4.916 min Scan# 628
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

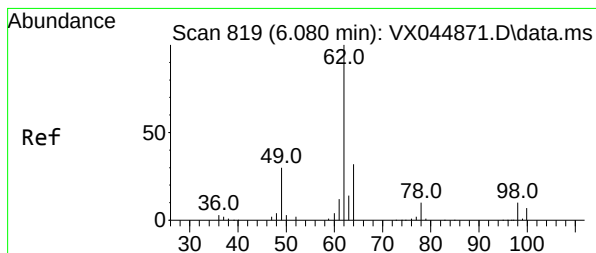
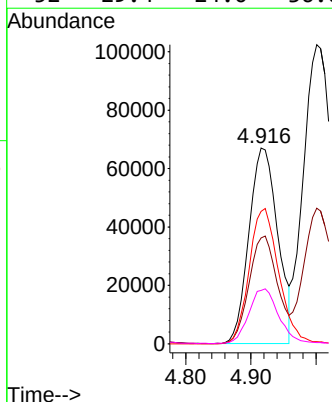
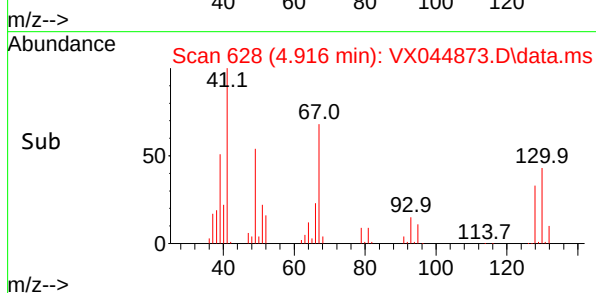
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 41 Resp: 20615
Ion Ratio Lower Upper
41 100
39 54.2 43.1 64.7
67 71.4 57.0 85.6
52 29.4 24.0 36.0

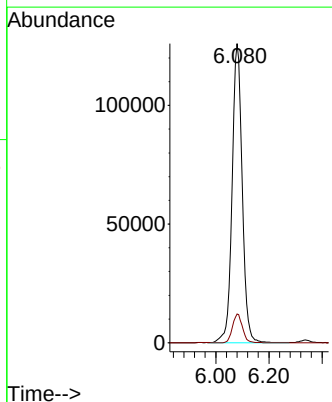
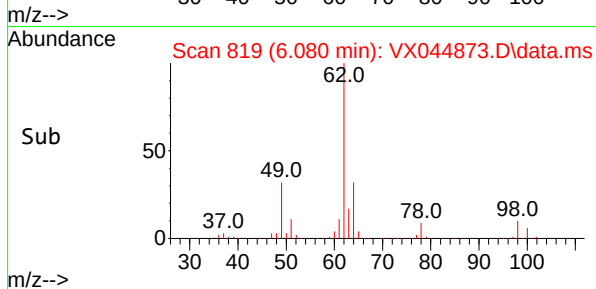
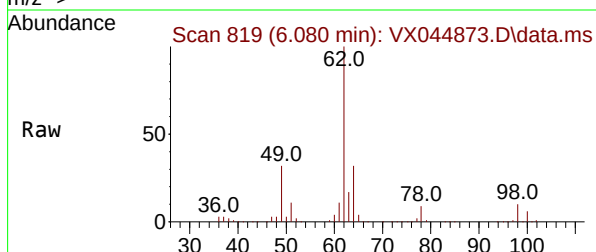
Manual Integrations
APPROVED

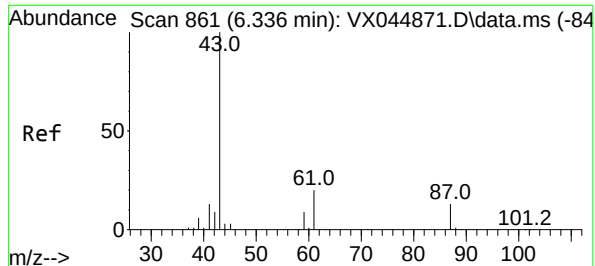
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#42
1,2-Dichloroethane
Concen: 154.984 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 62 Resp: 336520
Ion Ratio Lower Upper
62 100
98 9.5 0.0 19.4





#43

Isopropyl Acetate

Concen: 157.575 ug/l

RT: 6.336 min Scan# 861

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 617510

Ion Ratio Lower Upper

43 100

61 20.1 15.8 23.8

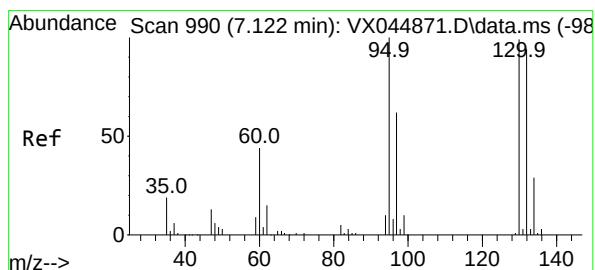
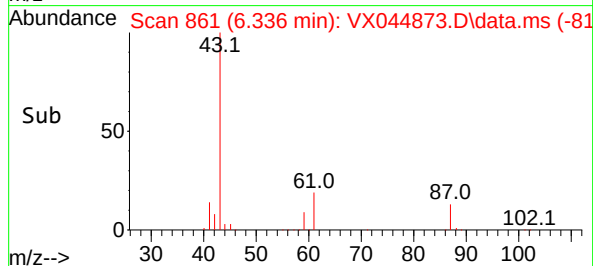
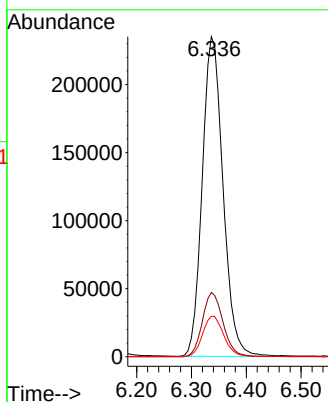
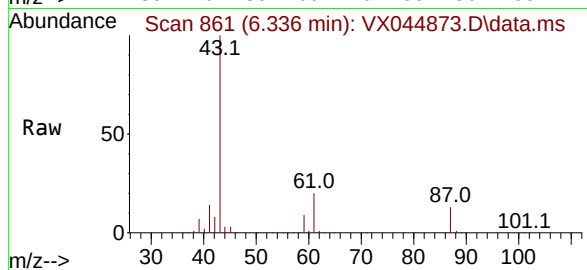
87 12.9 10.0 15.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#44

Trichloroethene

Concen: 153.496 ug/l

RT: 7.117 min Scan# 989

Delta R.T. -0.006 min

Lab File: VX044873.D

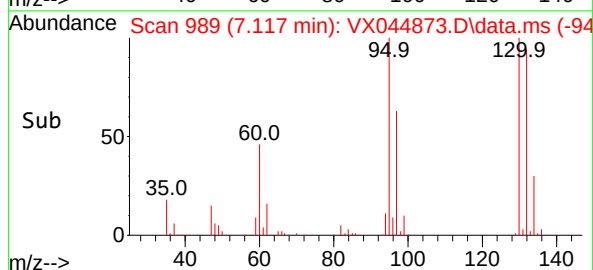
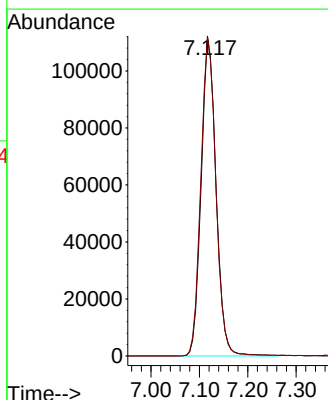
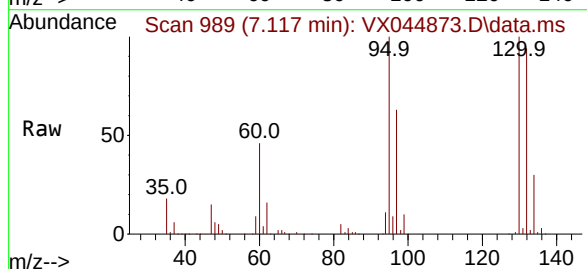
Acq: 10 Feb 2025 12:28

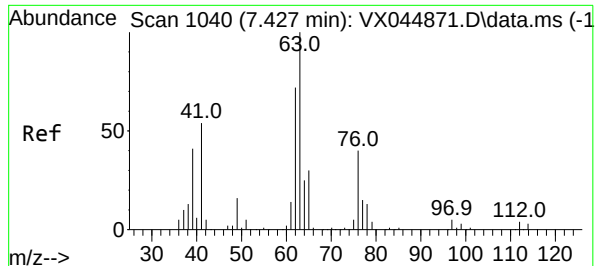
Tgt Ion:130 Resp: 239030

Ion Ratio Lower Upper

130 100

95 99.7 0.0 202.4





#45

1,2-Dichloropropane

Concen: 153.076 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 63 Resp: 259454

Ion Ratio Lower Upper

63 100

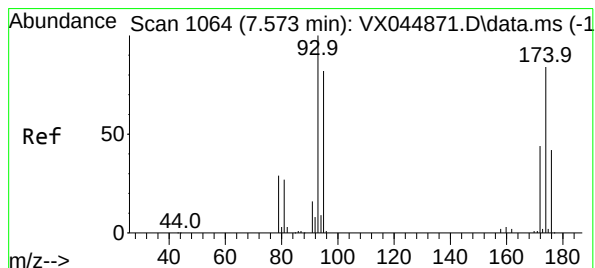
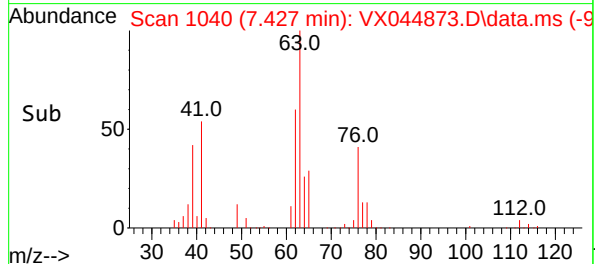
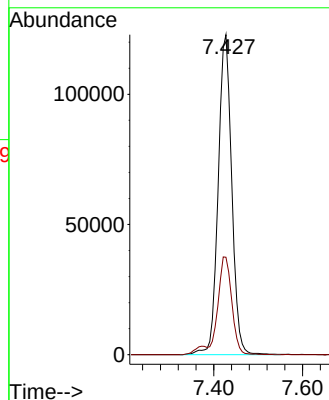
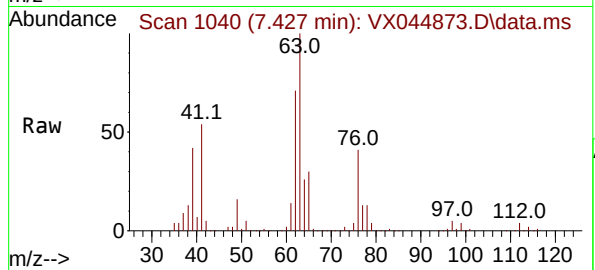
65 30.4 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#46

Dibromomethane

Concen: 152.870 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

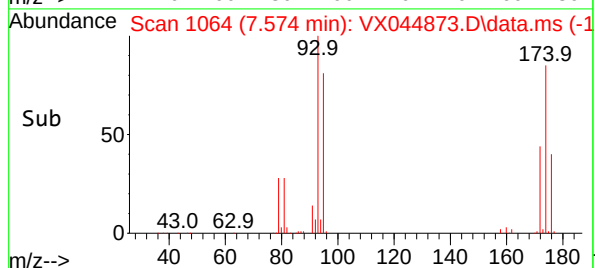
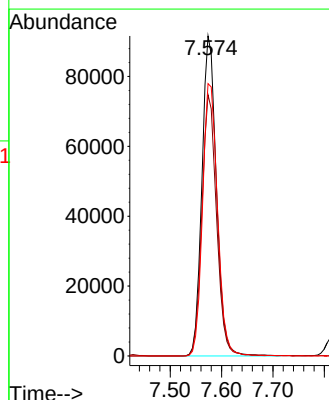
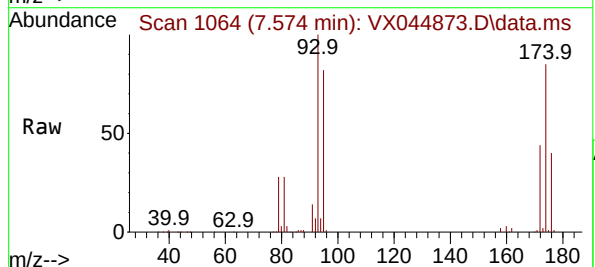
Tgt Ion: 93 Resp: 179689

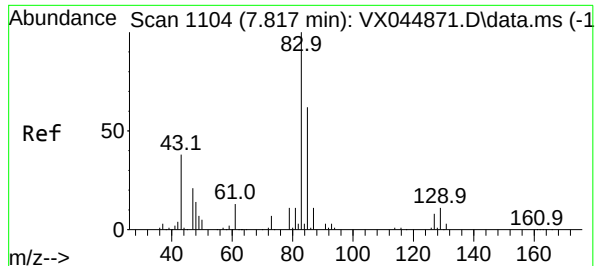
Ion Ratio Lower Upper

93 100

95 82.2 66.2 99.4

174 87.9 69.9 104.9





#47

Bromodichloromethane

Concen: 157.128 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 35762

Ion Ratio Lower Upper

83 100

85 64.3 50.0 75.0

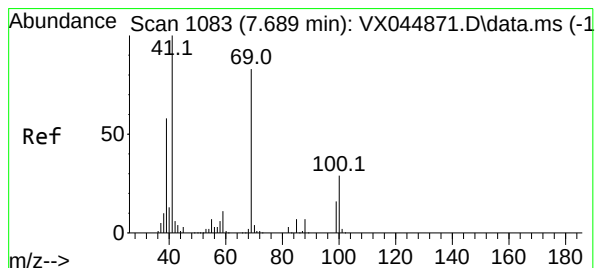
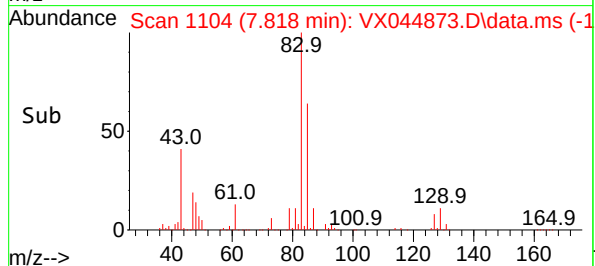
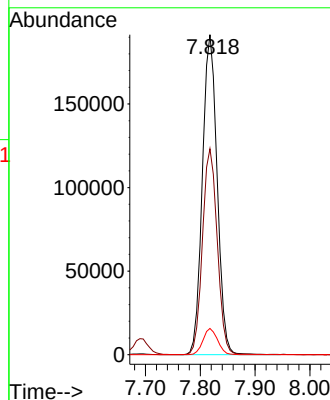
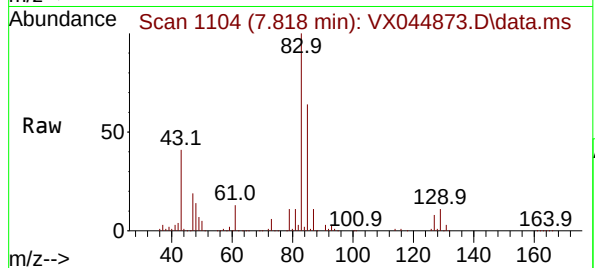
127 8.2 6.4 9.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#48

Methyl methacrylate

Concen: 161.236 ug/l

RT: 7.690 min Scan# 1083

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

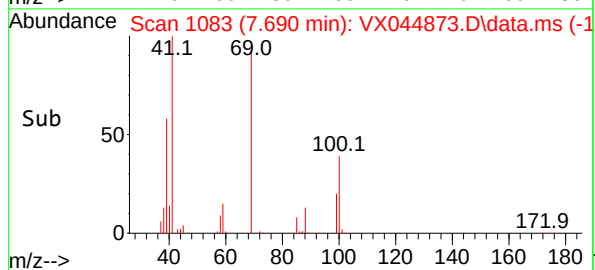
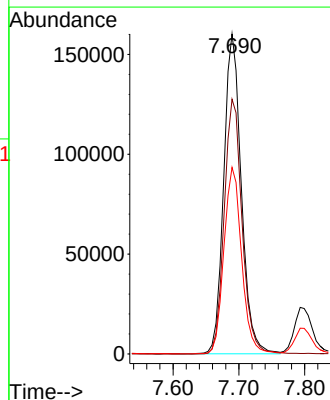
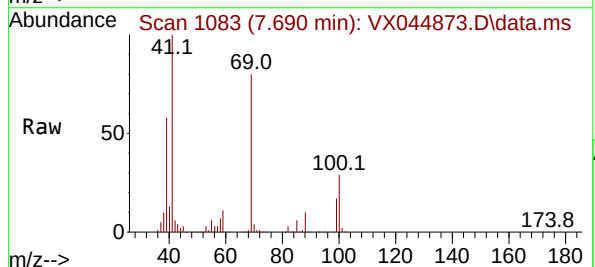
Tgt Ion: 41 Resp: 297931

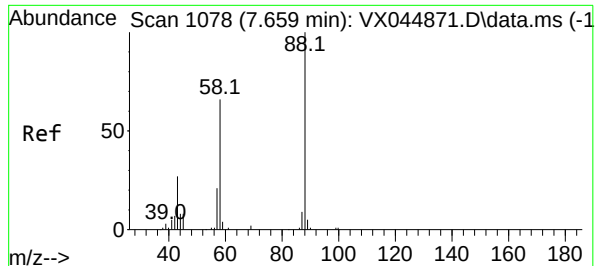
Ion Ratio Lower Upper

41 100

69 81.4 65.8 98.8

39 58.7 46.4 69.6





#49

1,4-Dioxane

Concen: 2678.192 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. 0.006 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 88 Resp: 106179

Ion Ratio Lower Upper

88 100

43 33.0 26.6 39.8

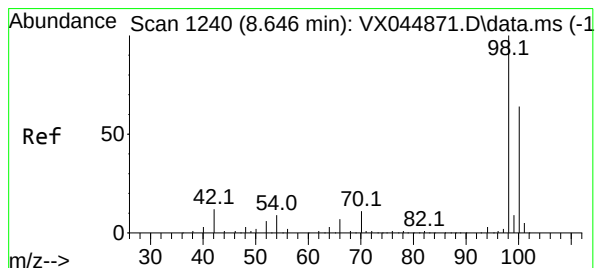
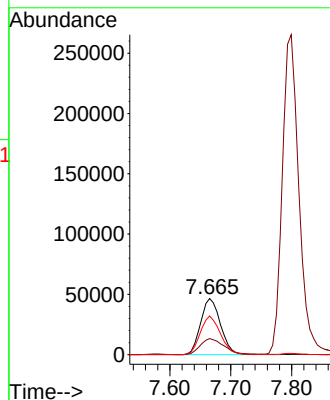
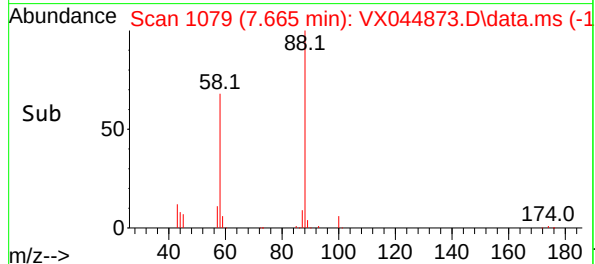
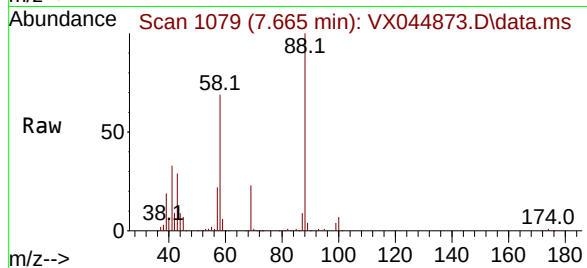
58 69.4 55.9 83.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#50

Toluene-d8

Concen: 147.877 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044873.D

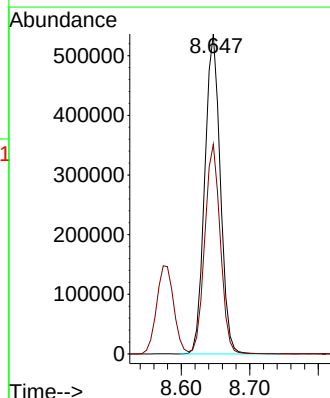
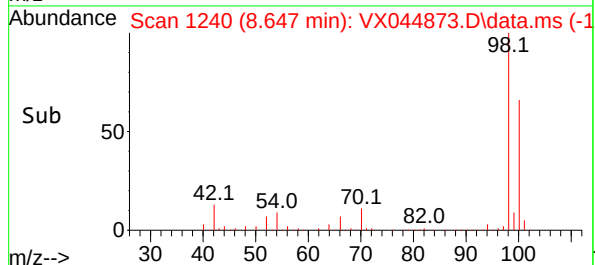
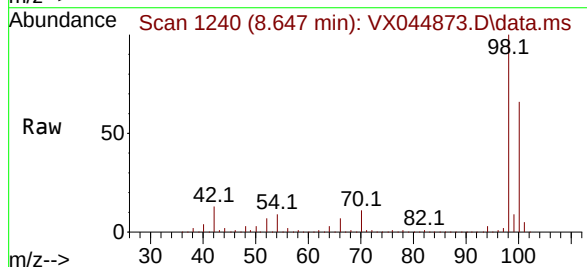
Acq: 10 Feb 2025 12:28

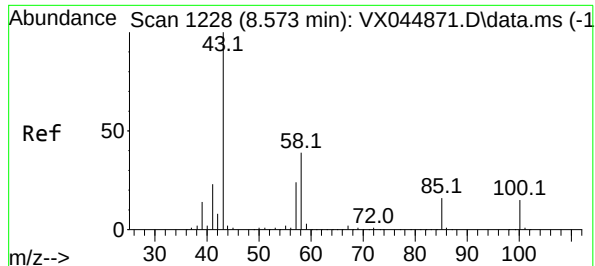
Tgt Ion: 98 Resp: 845632

Ion Ratio Lower Upper

98 100

100 65.5 52.7 79.1





#51

4-Methyl-2-Pentanone

Concen: 728.887 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 1736538

Ion Ratio Lower Upper

43 100

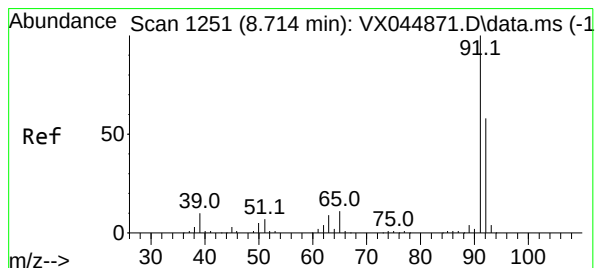
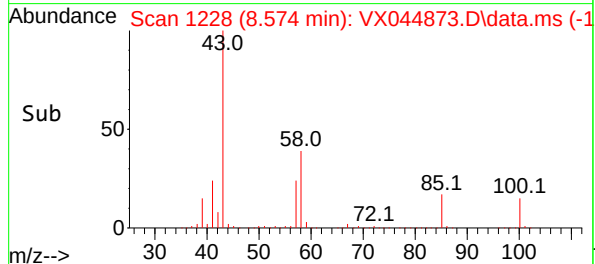
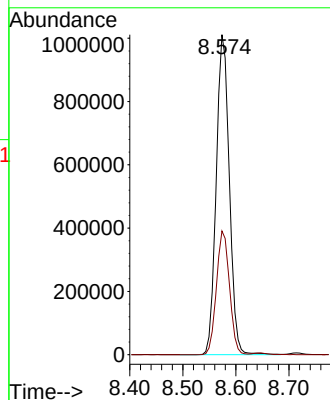
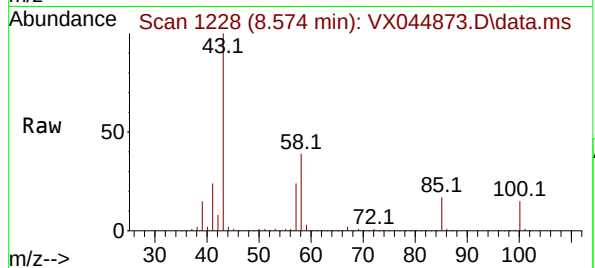
58 38.6 30.8 46.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#52

Toluene

Concen: 148.645 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. 0.000 min

Lab File: VX044873.D

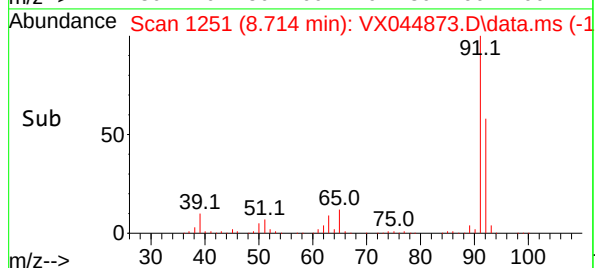
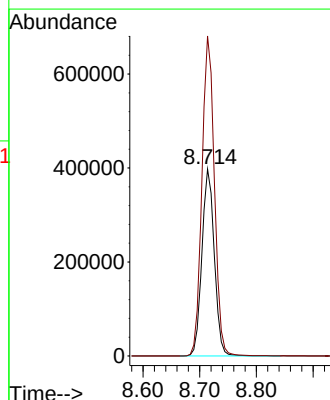
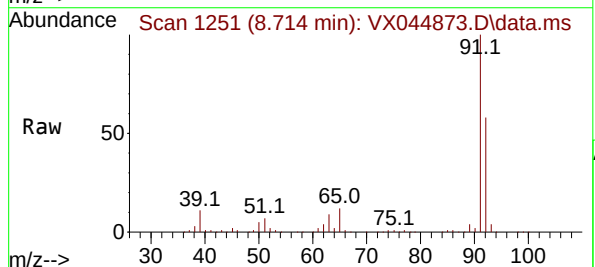
Acq: 10 Feb 2025 12:28

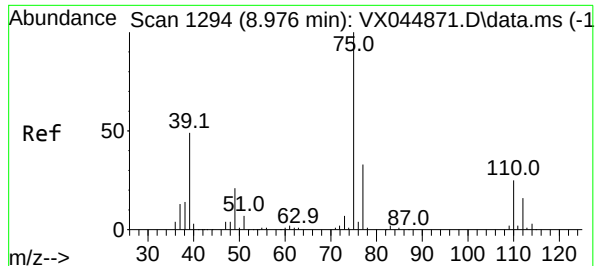
Tgt Ion: 92 Resp: 603113

Ion Ratio Lower Upper

92 100

91 172.6 137.4 206.2





#53

t-1,3-Dichloropropene

Concen: 164.398 ug/l

RT: 8.976 min Scan# 1294

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 75 Resp: 378639

Ion Ratio Lower Upper

75 100

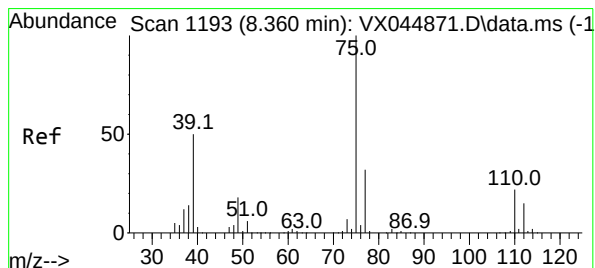
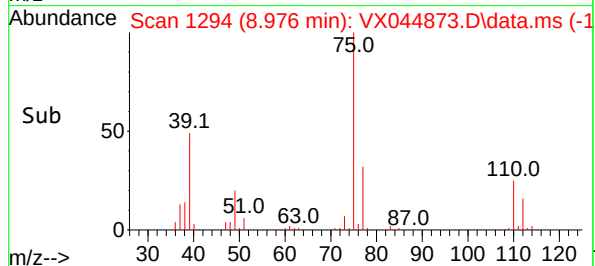
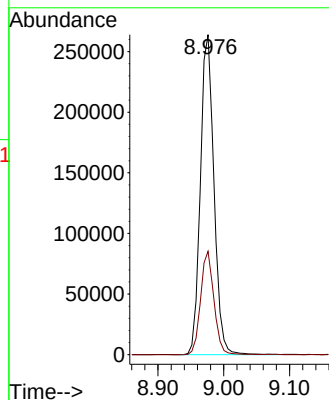
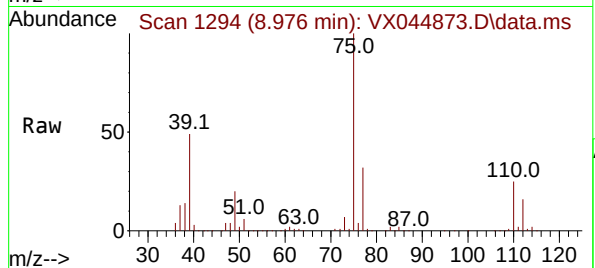
77 32.3 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#54

cis-1,3-Dichloropropene

Concen: 162.667 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

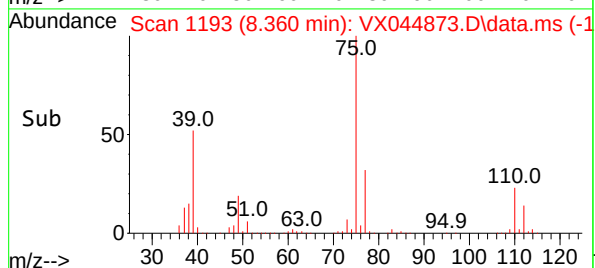
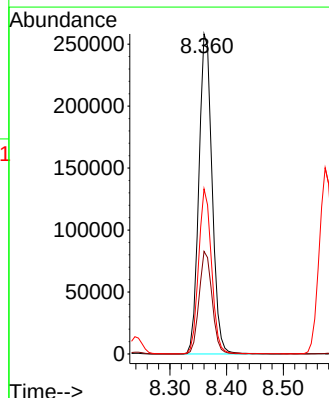
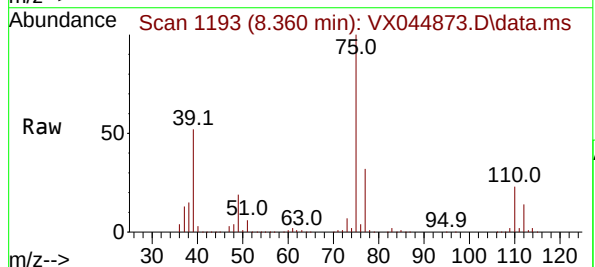
Tgt Ion: 75 Resp: 417724

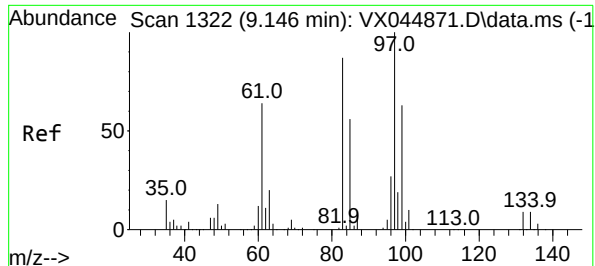
Ion Ratio Lower Upper

75 100

77 32.1 25.3 37.9

39 51.5 40.0 60.0





#55

1,1,2-Trichloroethane

Concen: 147.172 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 97 Resp: 22954

Ion Ratio Lower Upper

97 100

83 89.8 69.8 104.6

85 58.7 44.8 67.2

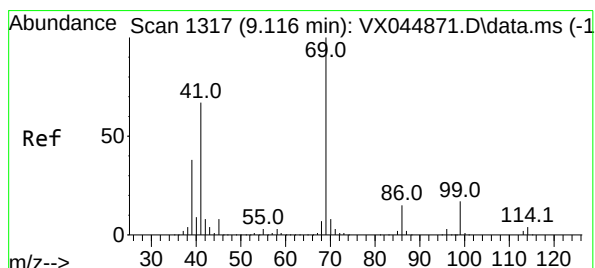
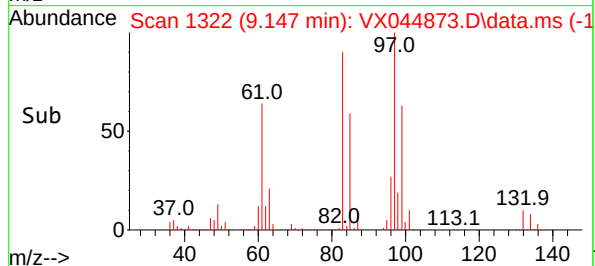
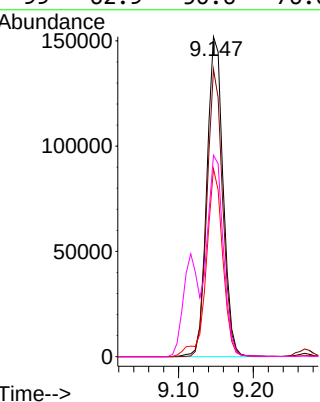
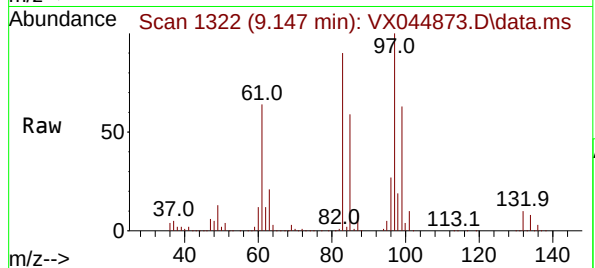
99 62.9 50.6 76.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#56

Ethyl methacrylate

Concen: 158.205 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

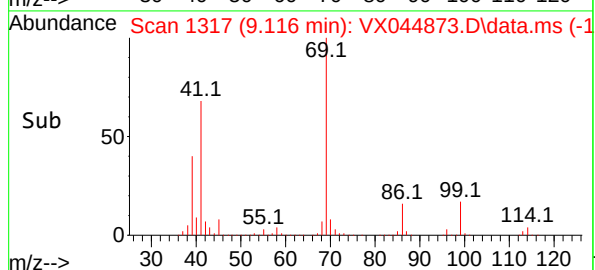
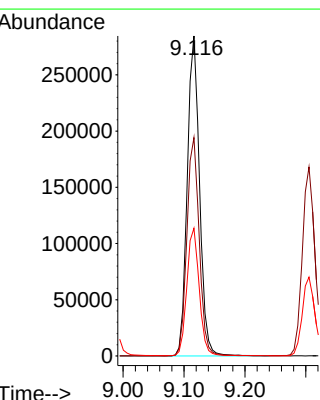
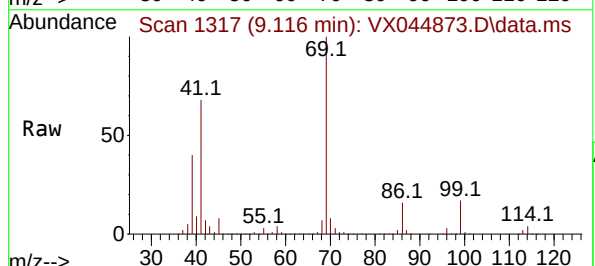
Tgt Ion: 69 Resp: 398535

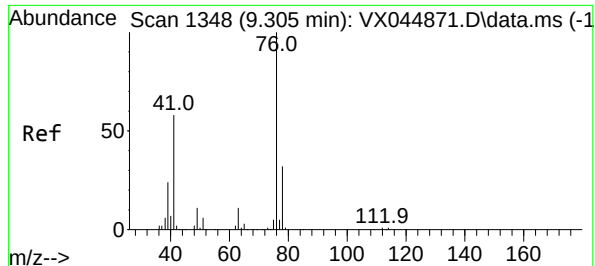
Ion Ratio Lower Upper

69 100

41 68.7 55.2 82.8

39 40.0 30.8 46.2





#57

1,3-Dichloropropane

Concen: 147.915 ug/l

RT: 9.305 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 76 Resp: 40366

Ion Ratio Lower Upper

76 100

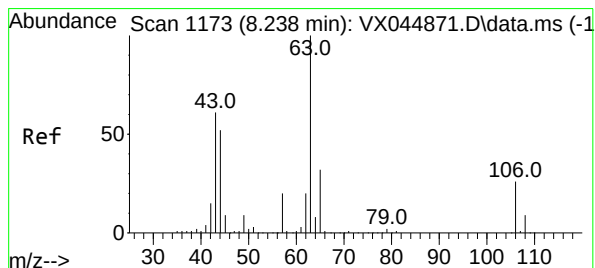
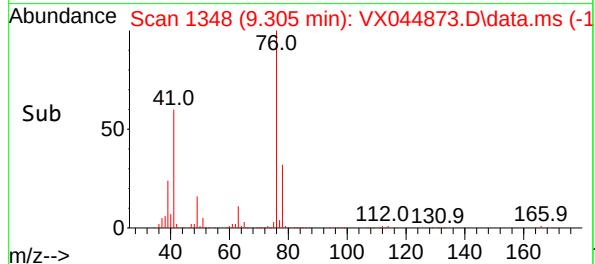
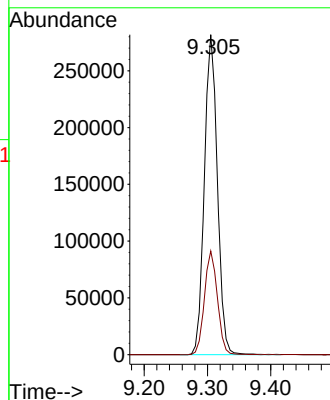
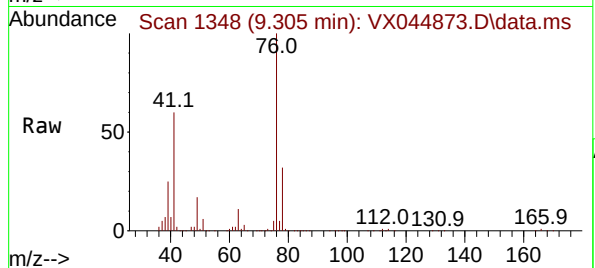
78 32.3 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#58

2-Chloroethyl Vinyl ether

Concen: 794.010 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX044873.D

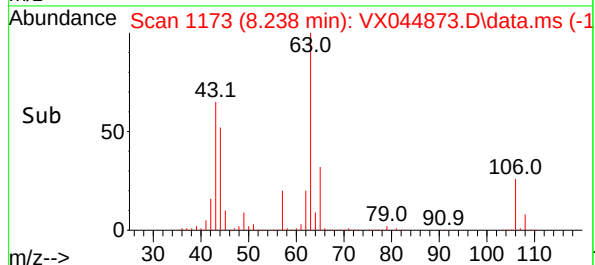
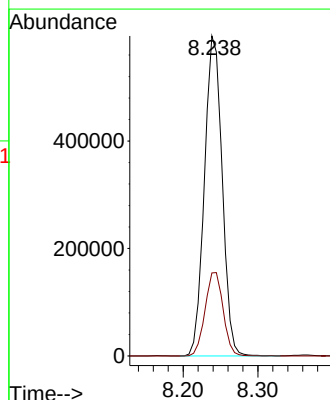
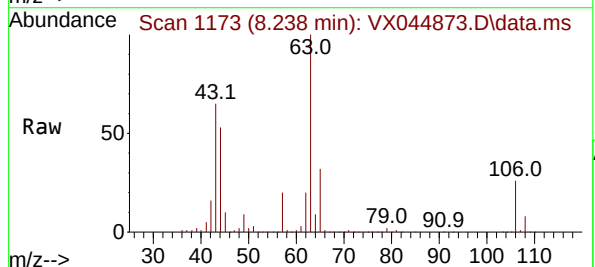
Acq: 10 Feb 2025 12:28

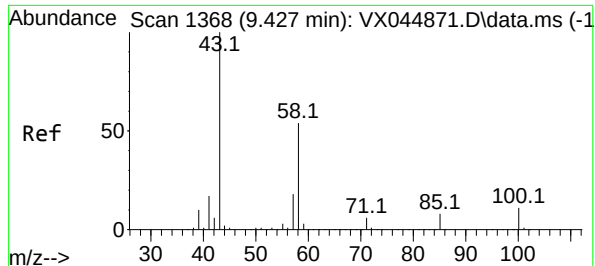
Tgt Ion: 63 Resp: 982120

Ion Ratio Lower Upper

63 100

106 26.6 21.3 31.9





#59

2-Hexanone

Concen: 736.622 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.006 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 1264470

Ion Ratio Lower Upper

43 100

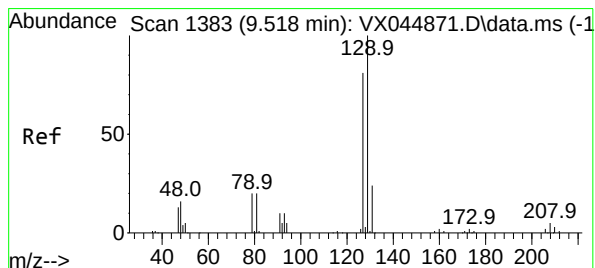
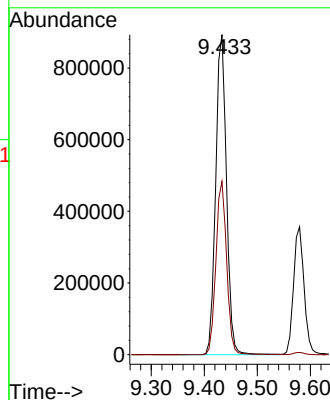
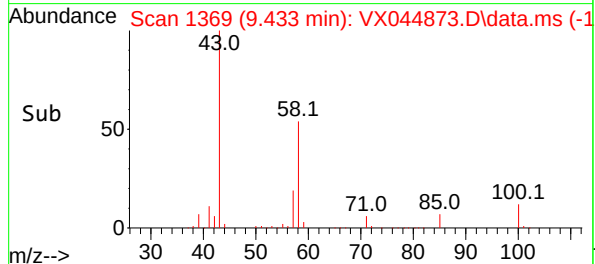
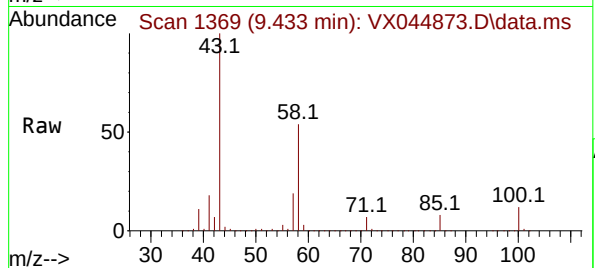
58 54.1 27.5 82.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#60

Dibromochloromethane

Concen: 154.862 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX044873.D

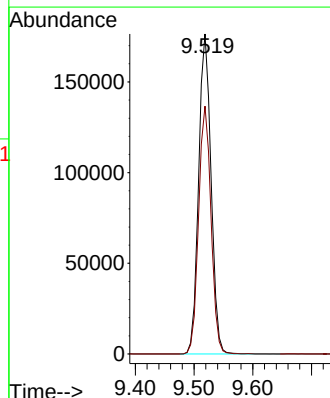
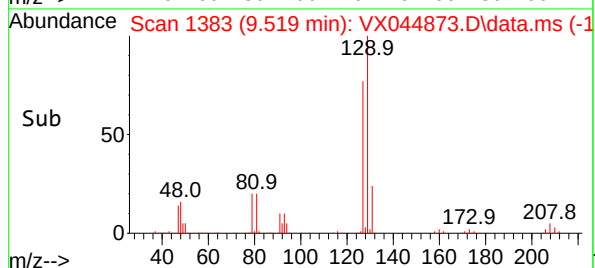
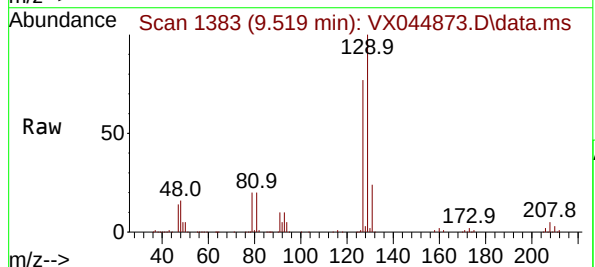
Acq: 10 Feb 2025 12:28

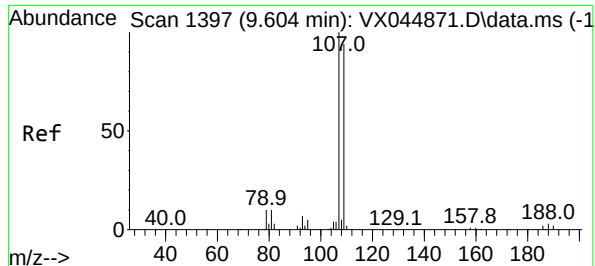
Tgt Ion:129 Resp: 258320

Ion Ratio Lower Upper

129 100

127 77.6 39.1 117.3





#61

1,2-Dibromoethane

Concen: 152.157 ug/l

RT: 9.604 min Scan# 1397

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:107 Resp: 240539

Ion Ratio Lower Upper

107 100

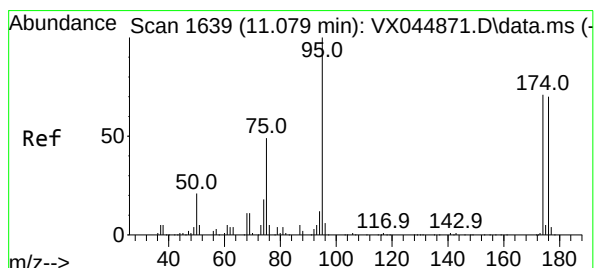
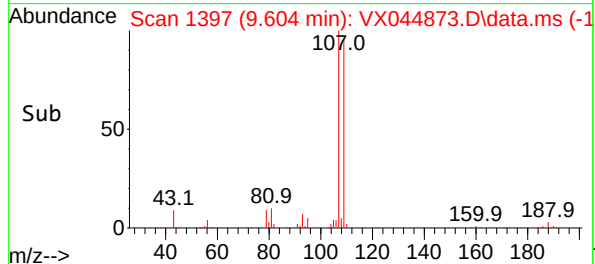
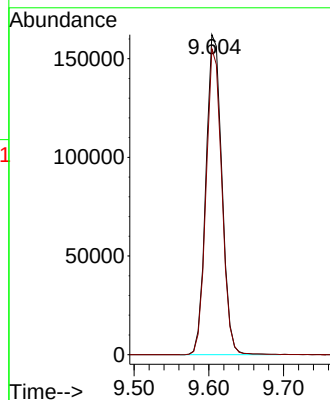
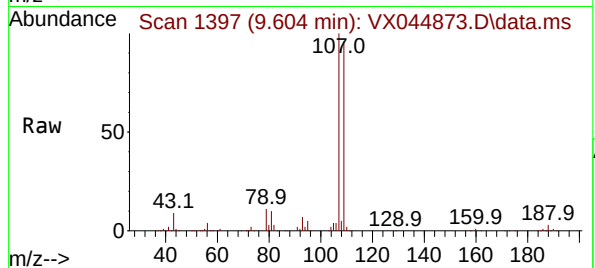
109 94.3 75.9 113.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#62

4-Bromofluorobenzene

Concen: 149.124 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

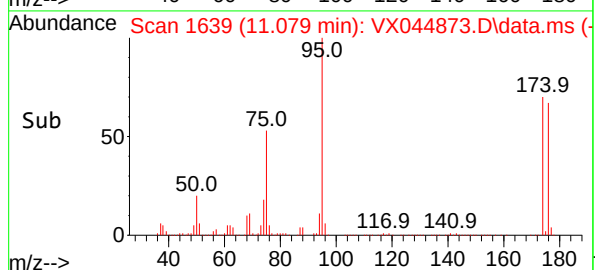
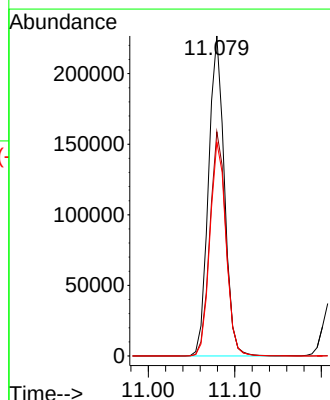
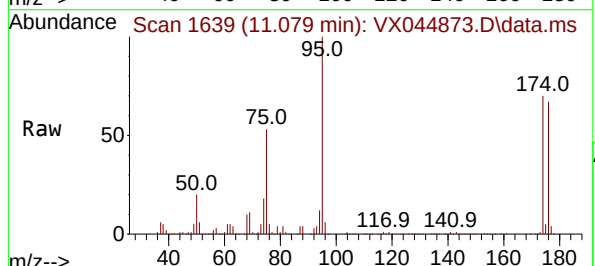
Tgt Ion: 95 Resp: 287486

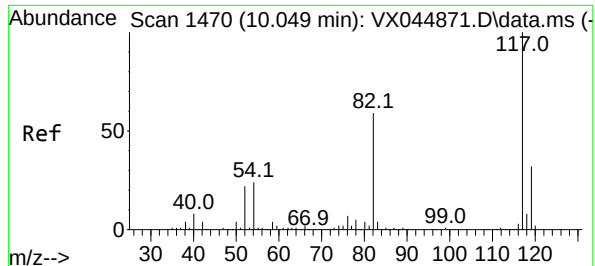
Ion Ratio Lower Upper

95 100

174 71.2 0.0 142.6

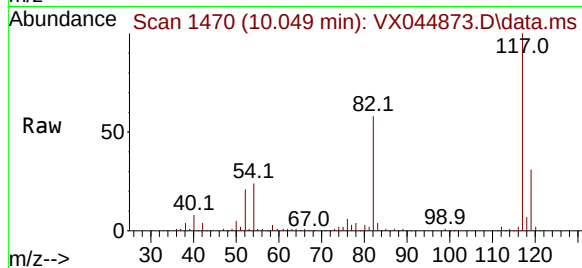
176 68.0 0.0 141.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

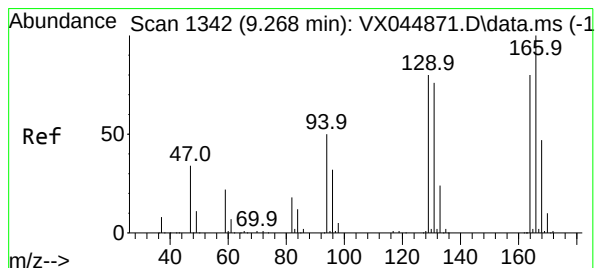
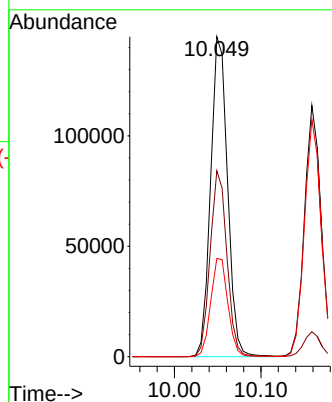
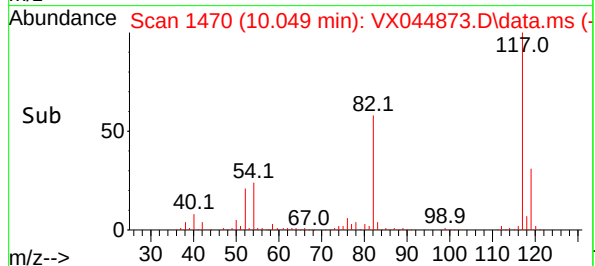
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:117 Resp: 196663
Ion Ratio Lower Upper
117 100
82 58.1 47.5 71.3
119 30.7 25.4 38.0

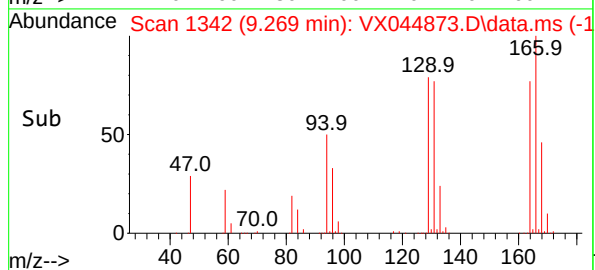
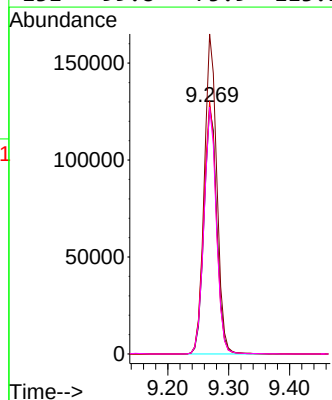
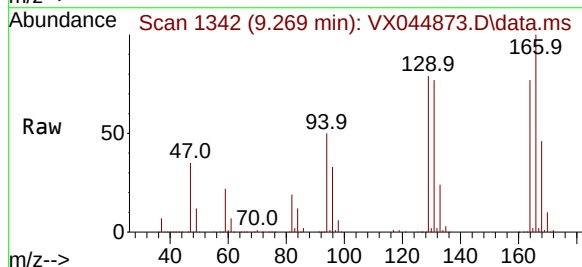
Manual Integrations
APPROVED

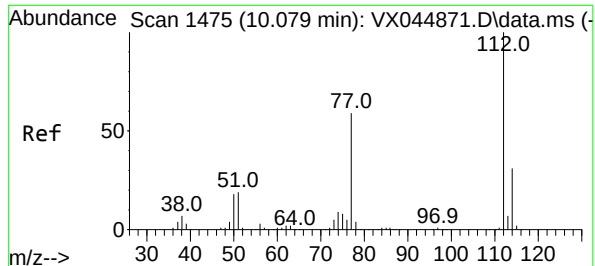
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#64
Tetrachloroethene
Concen: 149.155 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:164 Resp: 184990
Ion Ratio Lower Upper
164 100
166 129.5 100.4 150.6
129 102.3 79.9 119.9
131 99.8 75.9 113.9





#65

Chlorobenzene

Concen: 150.224 ug/l

RT: 10.073 min Scan# 1475

Delta R.T. -0.006 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:112 Resp: 634550

Ion Ratio Lower Upper

112 100

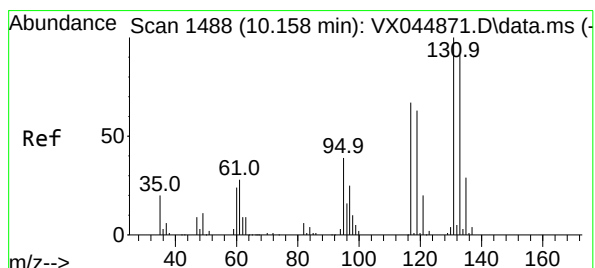
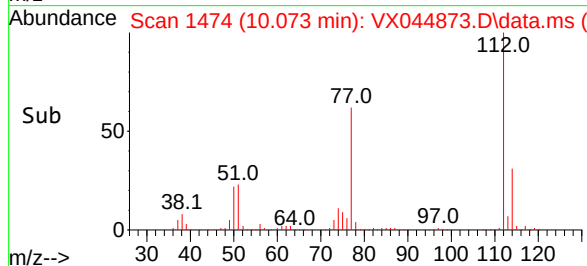
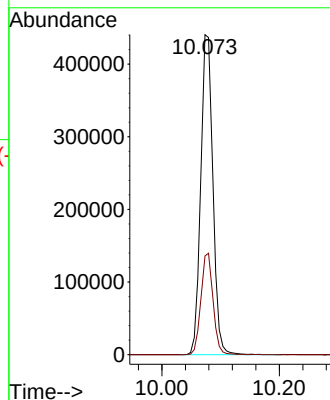
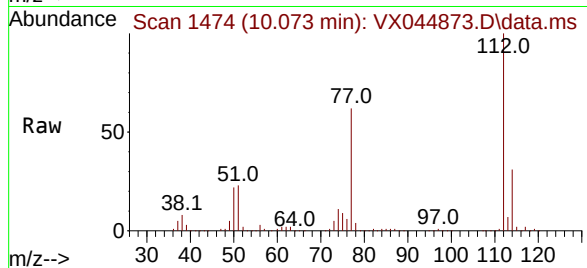
114 30.9 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 156.255 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

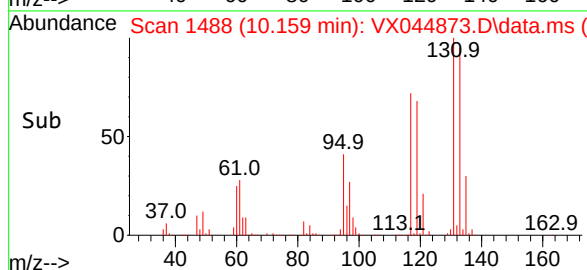
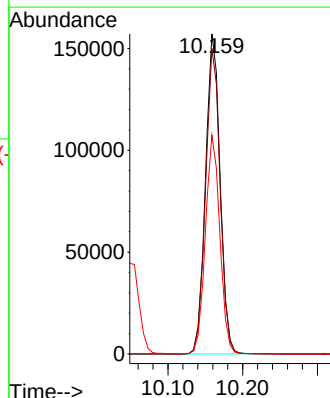
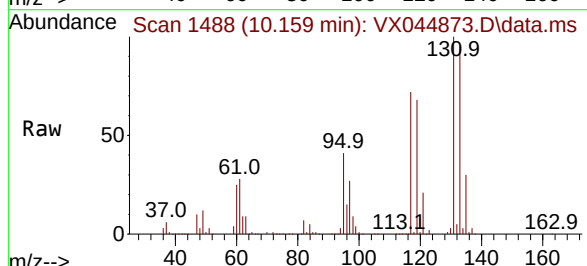
Tgt Ion:131 Resp: 212441

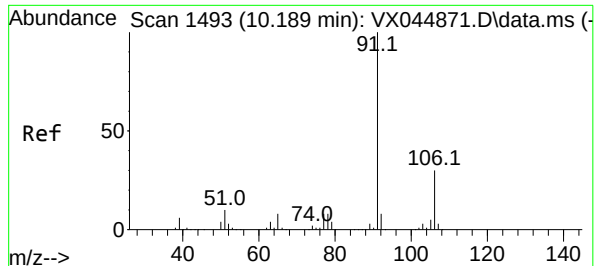
Ion Ratio Lower Upper

131 100

133 95.3 47.1 141.3

119 67.9 33.6 100.6





#67

Ethyl Benzene

Concen: 152.647 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 113784

Ion Ratio Lower Upper

91 100

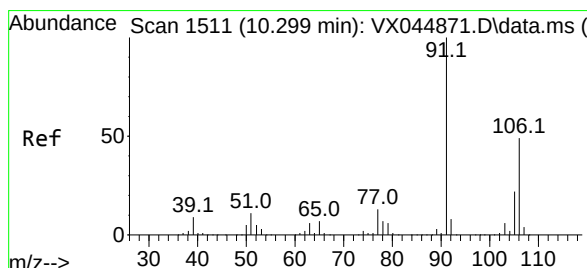
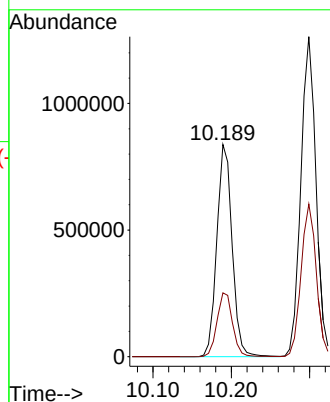
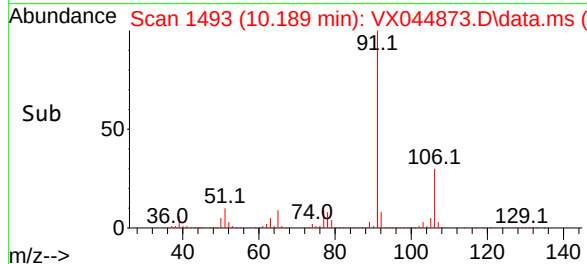
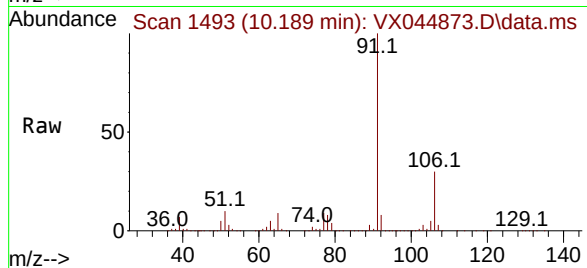
106 30.1 23.9 35.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#68

m/p-Xylenes

Concen: 297.841 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX044873.D

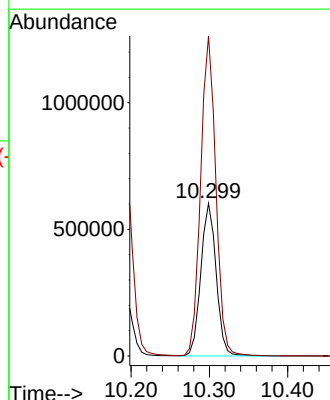
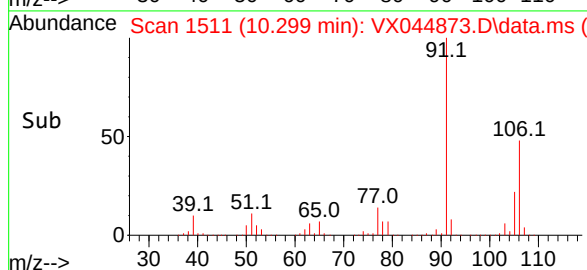
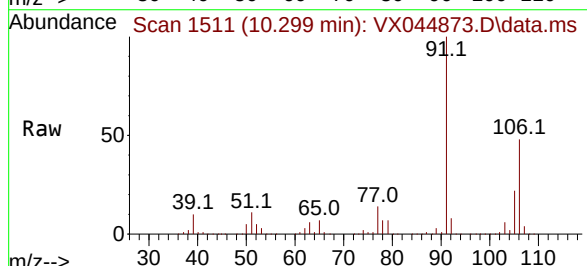
Acq: 10 Feb 2025 12:28

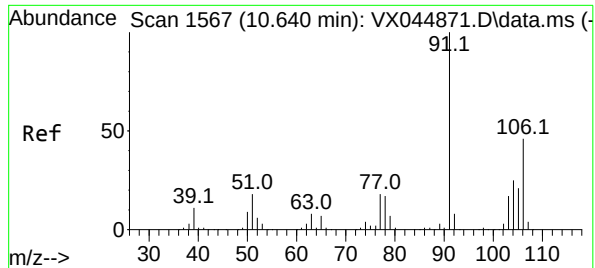
Tgt Ion:106 Resp: 818971

Ion Ratio Lower Upper

106 100

91 208.6 164.3 246.5





#69

o-Xylene

Concen: 145.674 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:106 Resp: 401928

Ion Ratio Lower Upper

106 100

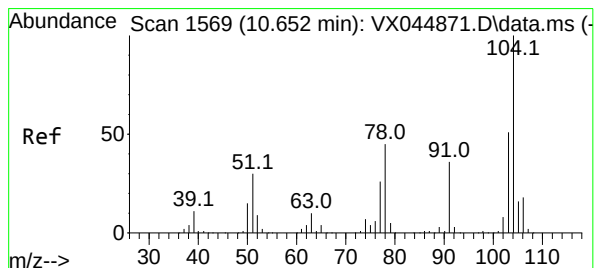
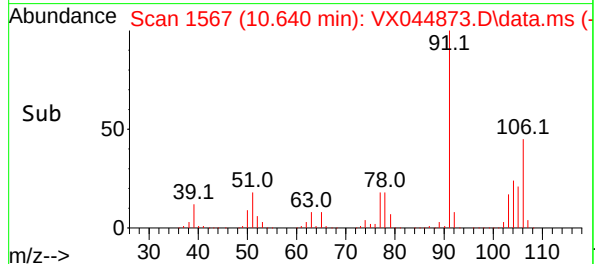
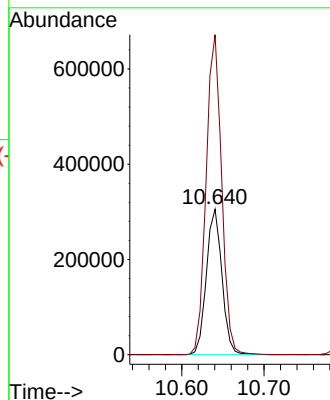
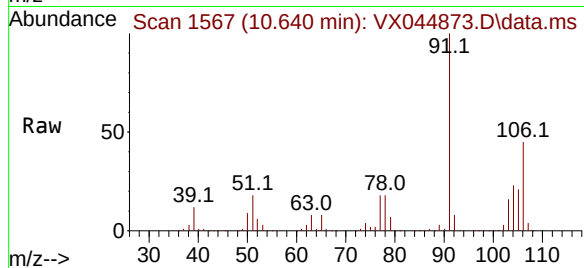
91 218.9 108.5 325.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#70

Styrene

Concen: 151.140 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

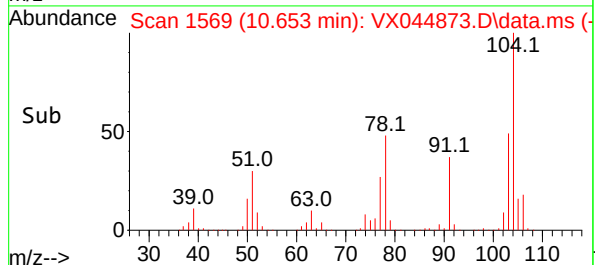
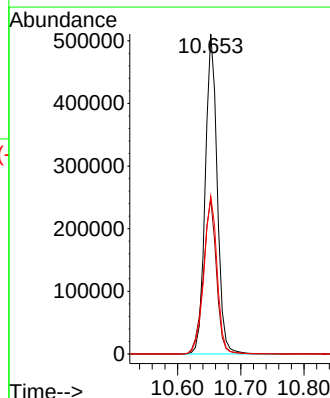
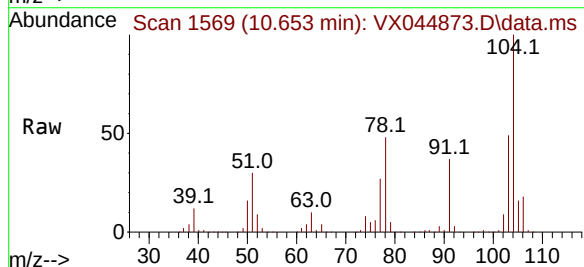
Tgt Ion:104 Resp: 671843

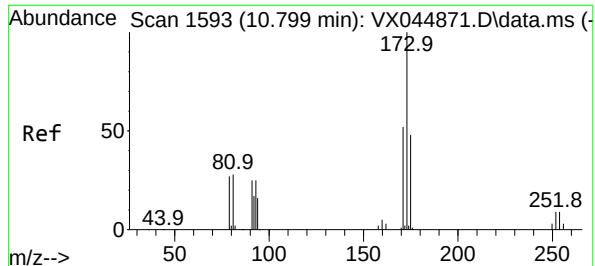
Ion Ratio Lower Upper

104 100

78 53.0 40.5 60.7

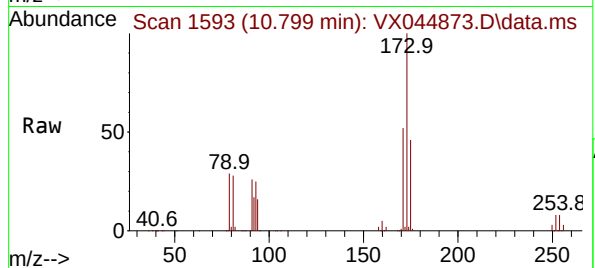
103 54.5 43.6 65.4





#71
Bromoform
Concen: 167.033 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

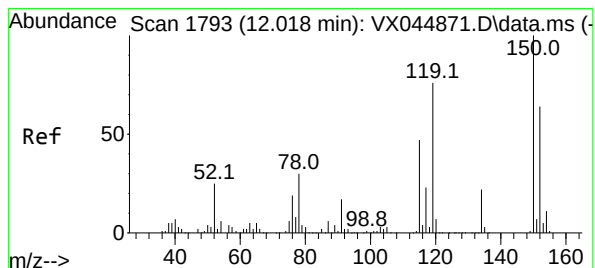
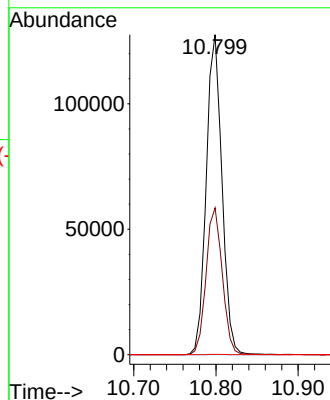
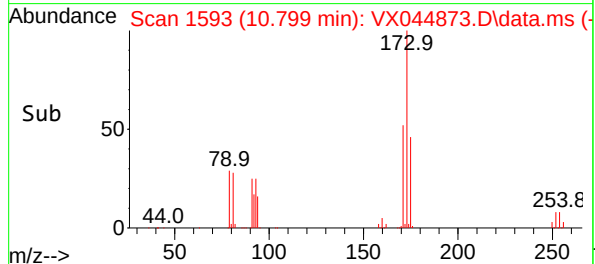
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:173 Resp: 16948
Ion Ratio Lower Upper
173 100
175 47.4 24.3 72.8
254 0.1 0.0 0.0

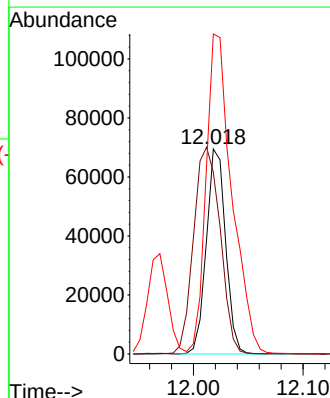
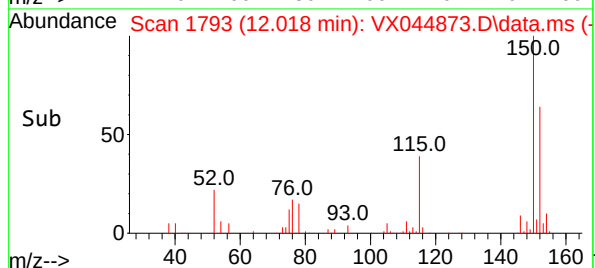
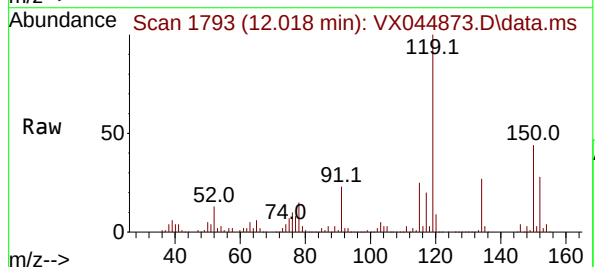
Manual Integrations
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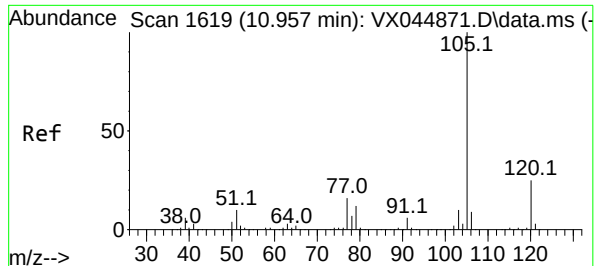
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

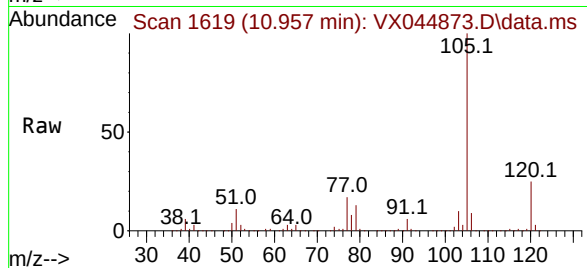
Tgt Ion:152 Resp: 84836
Ion Ratio Lower Upper
152 100
115 139.2 43.4 130.1#
150 209.6 0.0 350.4





#73
Isopropylbenzene
Concen: 151.869 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

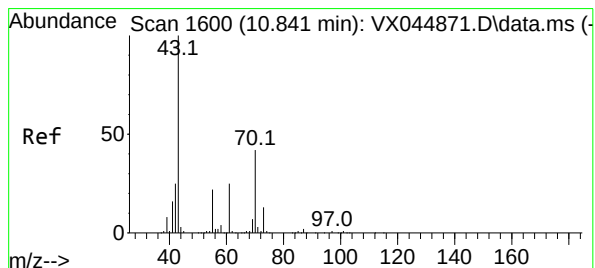
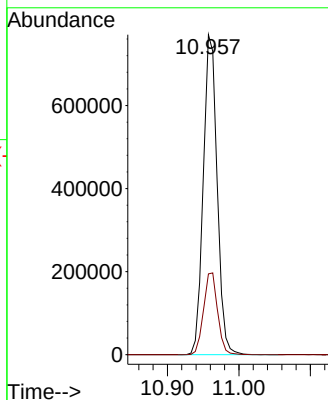
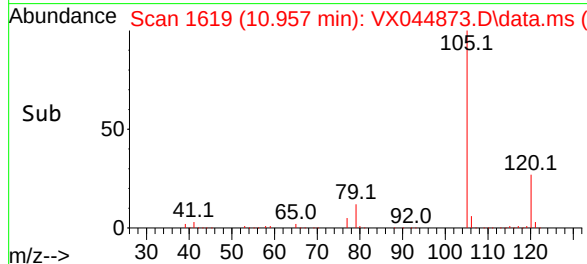
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:105 Resp: 1037402
Ion Ratio Lower Upper
105 100
120 25.9 13.2 39.5

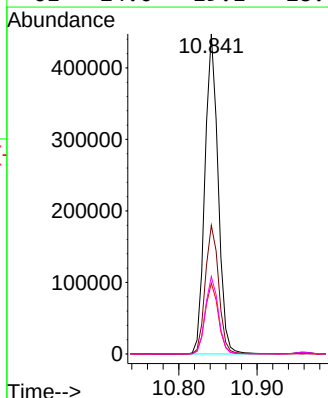
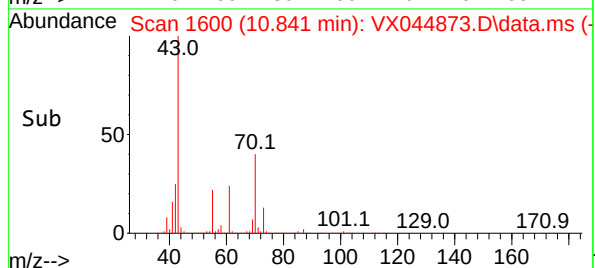
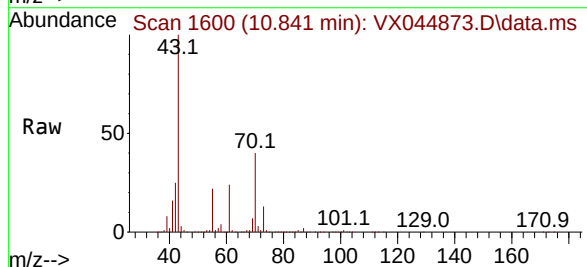
Manual Integrations
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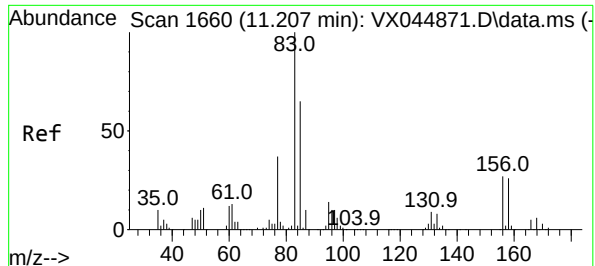
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#74
N-ethyl acetate
Concen: 168.861 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

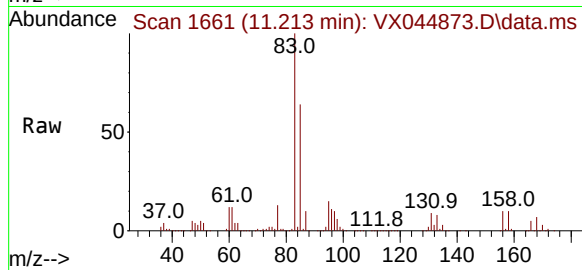
Tgt Ion: 43 Resp: 521962
Ion Ratio Lower Upper
43 100
70 41.0 33.7 50.5
55 22.3 18.6 27.8
61 24.0 19.1 28.7





#75
1,1,2,2-Tetrachloroethane
Concen: 147.409 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

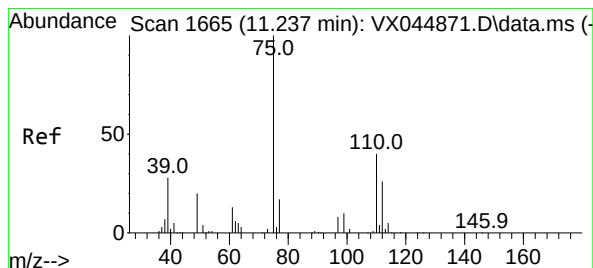
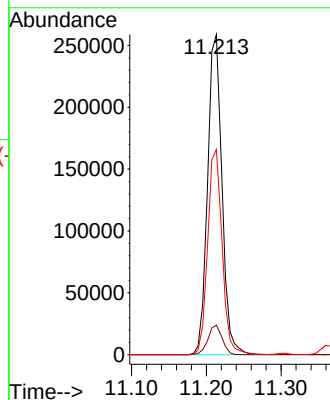
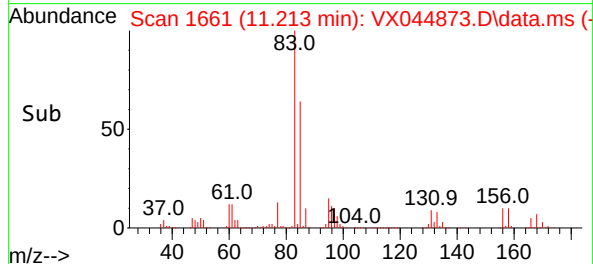
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion: 83 Resp: 34601
Ion Ratio Lower Upper
83 100
131 9.1 4.5 13.5
85 64.3 32.3 96.8

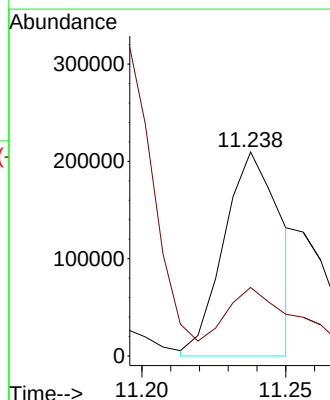
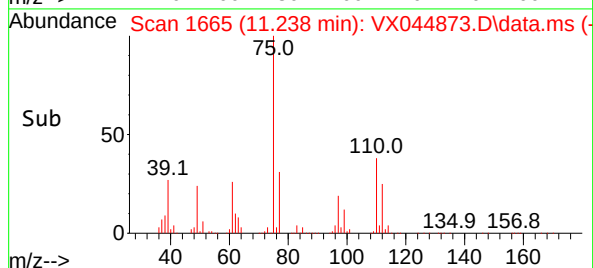
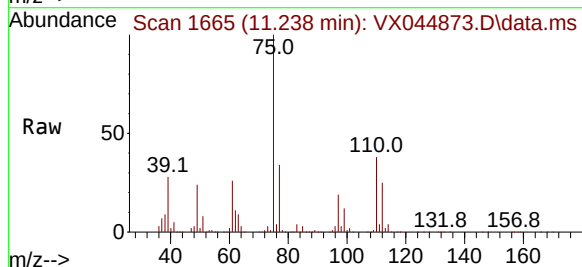
Manual Integrations
APPROVED

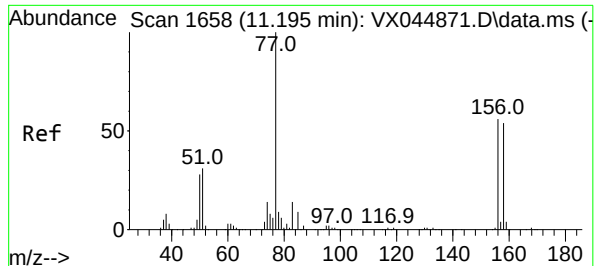
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#76
1,2,3-Trichloropropane
Concen: 151.485 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

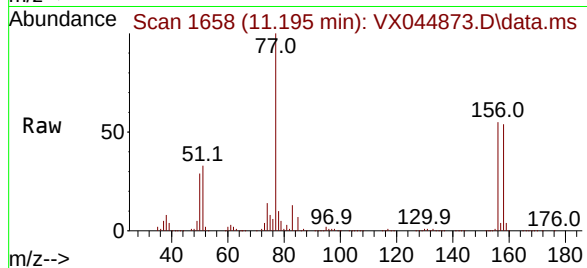
Tgt Ion: 75 Resp: 284934
Ion Ratio Lower Upper
75 100
77 44.3 21.9 65.7





#77
Bromobenzene
Concen: 151.715 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

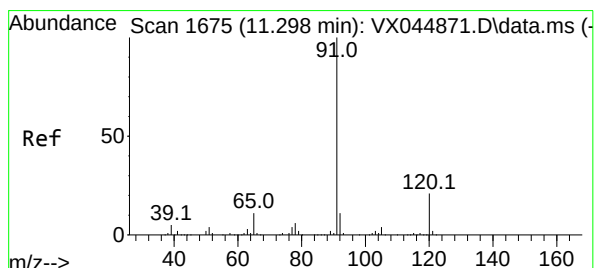
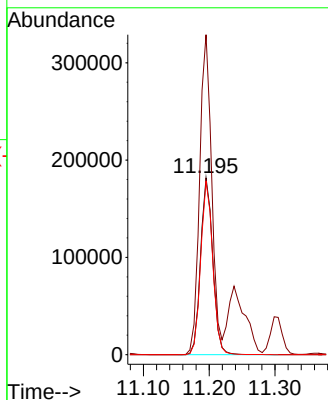
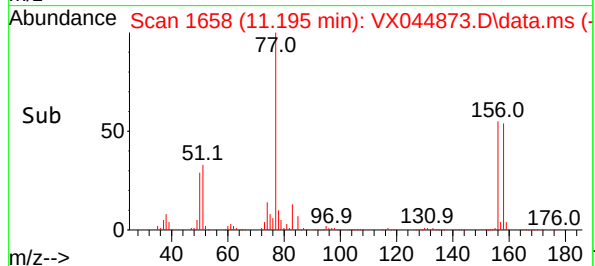
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion: 156 Resp: 23495
Ion Ratio Lower Upper
156 100
77 179.2 88.4 265.3
158 97.1 48.4 145.2

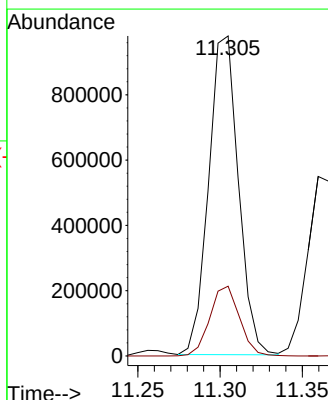
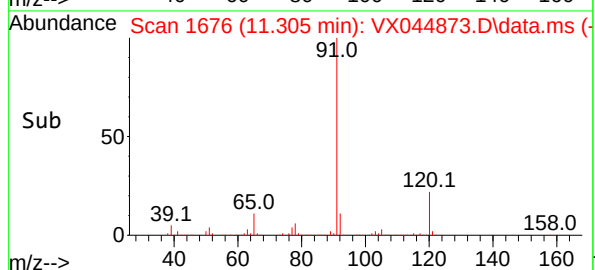
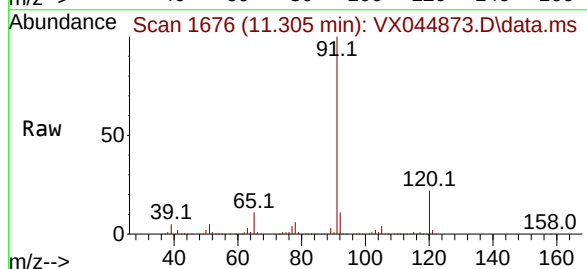
Manual Integrations
APPROVED

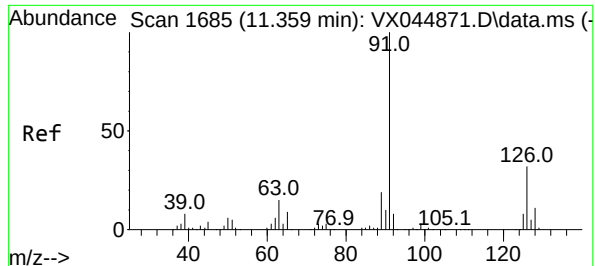
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#78
n-propylbenzene
Concen: 156.140 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 91 Resp: 1231079
Ion Ratio Lower Upper
91 100
120 21.8 11.1 33.3





#79

2-Chlorotoluene

Concen: 148.123 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 91 Resp: 717760

Ion Ratio Lower Upper

91 100

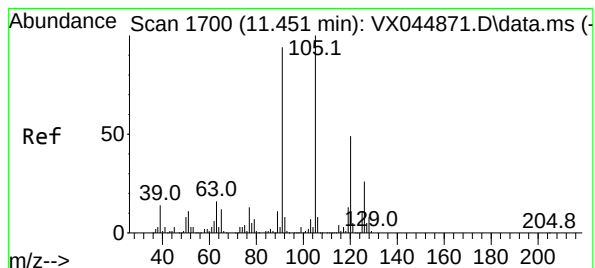
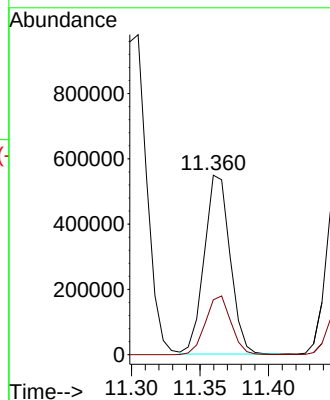
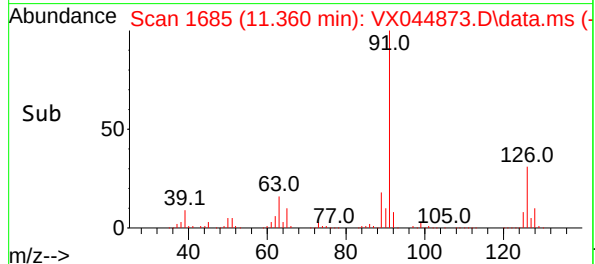
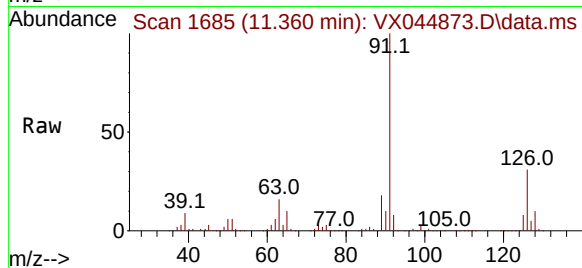
126 32.5 16.2 48.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#80

1,3,5-Trimethylbenzene

Concen: 148.415 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX044873.D

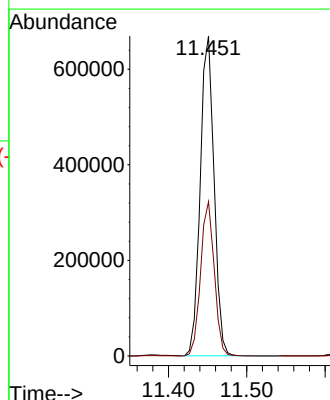
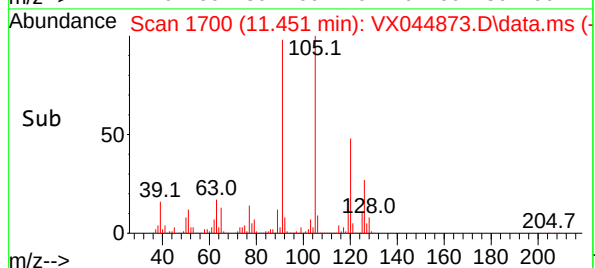
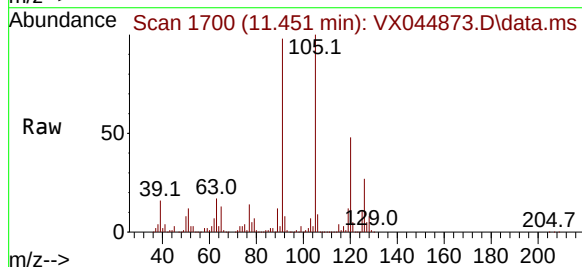
Acq: 10 Feb 2025 12:28

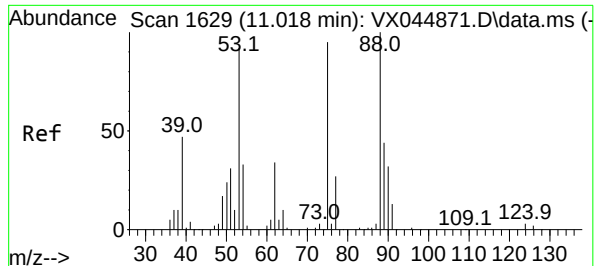
Tgt Ion:105 Resp: 822707

Ion Ratio Lower Upper

105 100

120 47.6 24.0 72.0





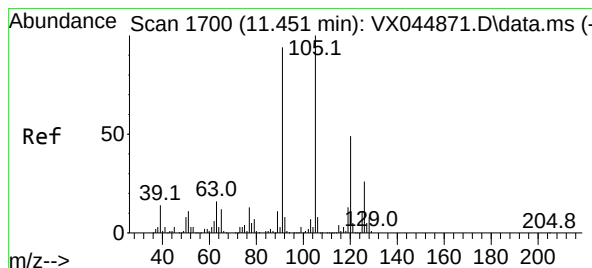
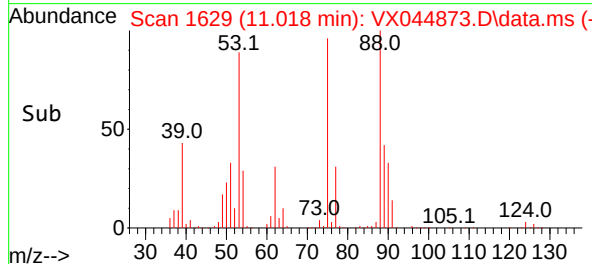
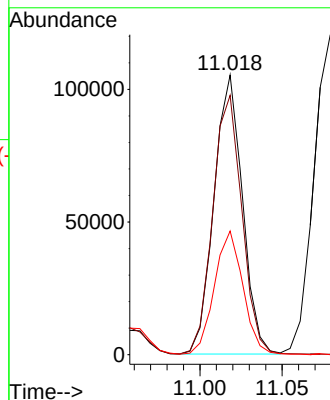
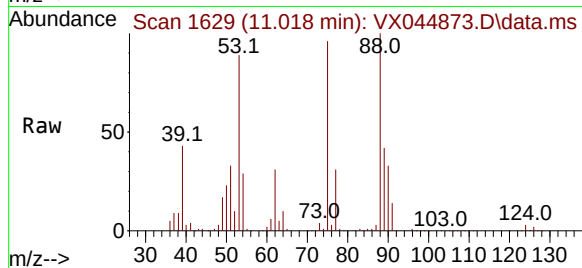
#81
trans-1,4-Dichloro-2-butene
Concen: 173.221 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion: 75 Resp: 126660
Ion Ratio Lower Upper
75 100
53 95.2 78.0 117.0
89 44.7 36.6 54.8

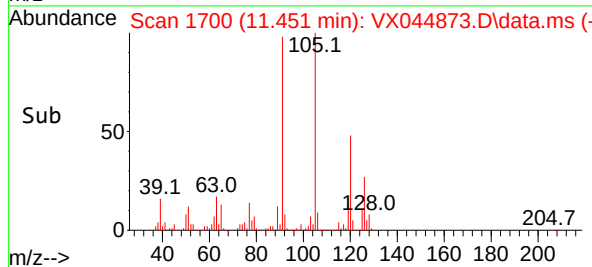
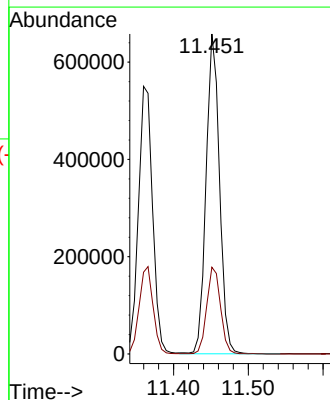
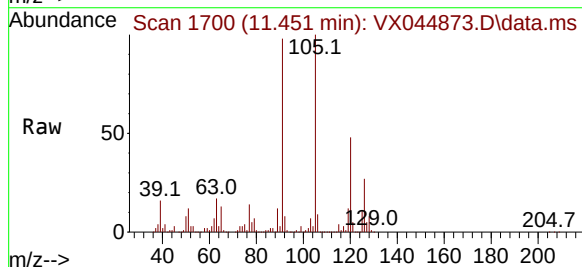
Manual Integrations
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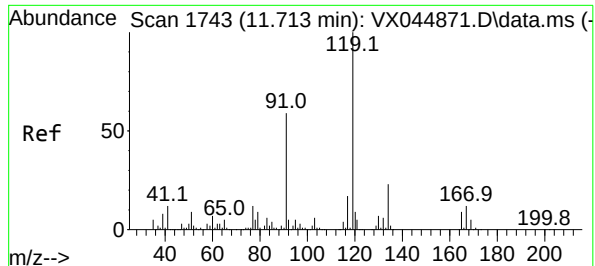
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#82
4-Chlorotoluene
Concen: 152.602 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

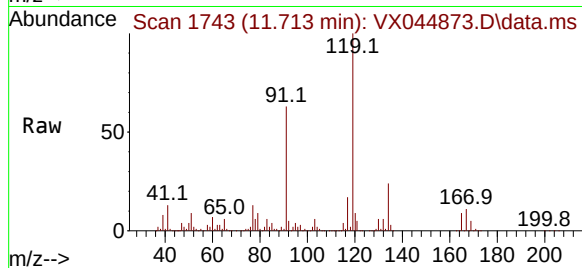
Tgt Ion: 91 Resp: 818099
Ion Ratio Lower Upper
91 100
126 27.9 14.2 42.6





#83
tert-Butylbenzene
Concen: 149.610 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

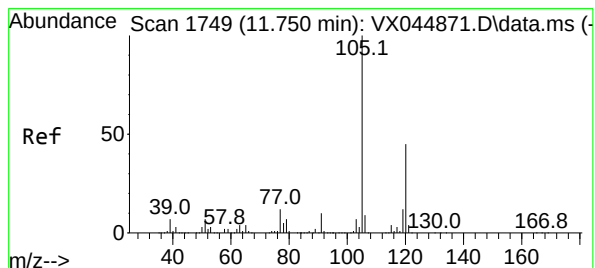
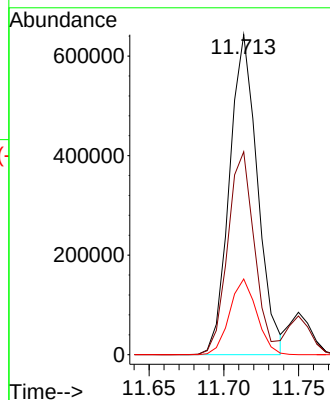
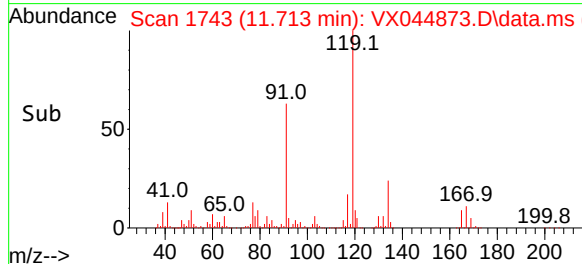
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:119 Resp: 838979
Ion Ratio Lower Upper
119 100
91 61.1 29.1 87.4
134 22.9 11.5 34.5

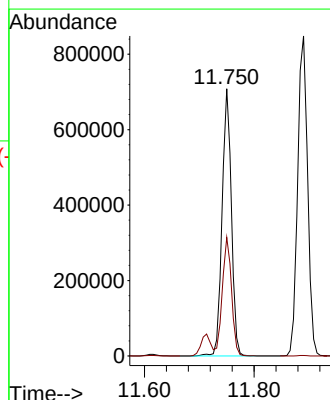
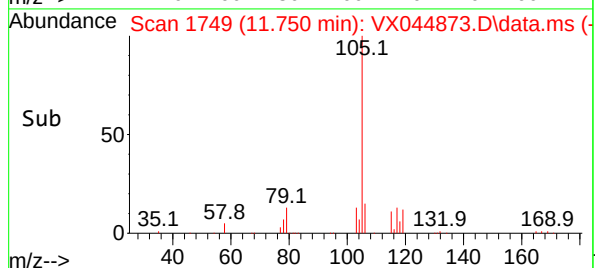
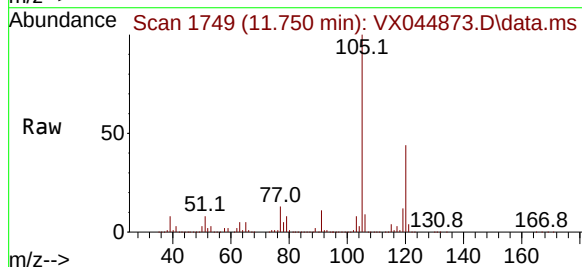
Manual Integrations
APPROVED

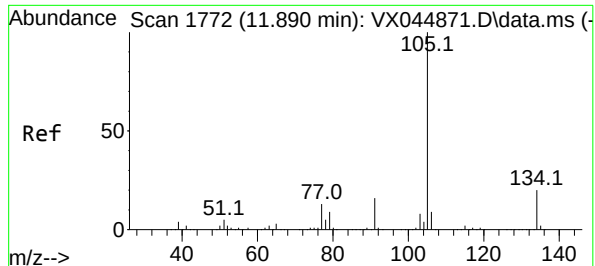
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#84
1,2,4-Trimethylbenzene
Concen: 153.274 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

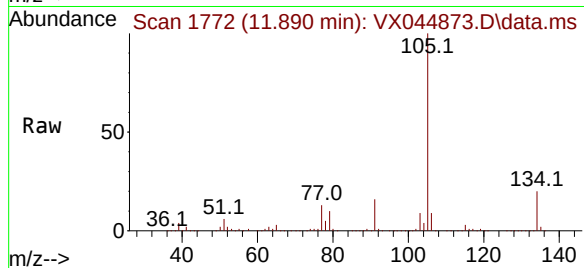
Tgt Ion:105 Resp: 838584
Ion Ratio Lower Upper
105 100
120 44.2 22.4 67.0





#85
sec-Butylbenzene
Concen: 152.806 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

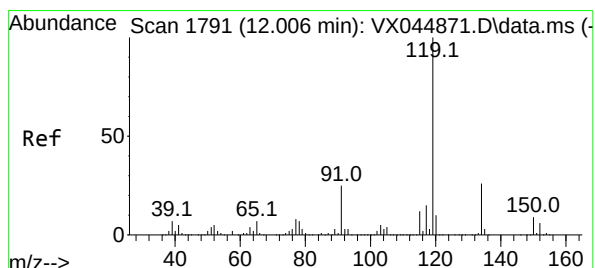
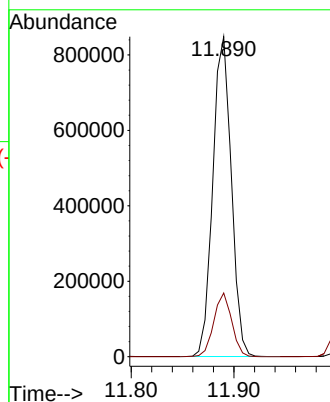
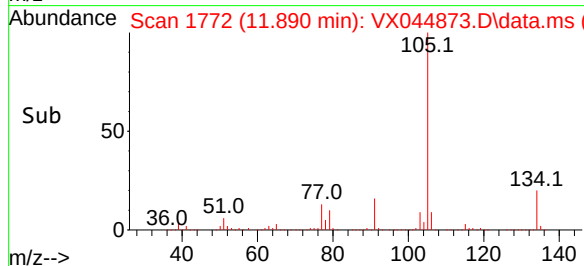
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



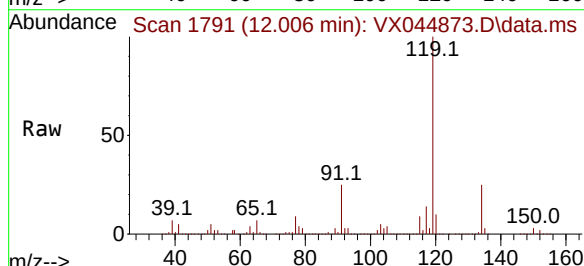
Tgt Ion:105 Resp: 106110
Ion Ratio Lower Upper
105 100
134 19.3 9.8 29.3

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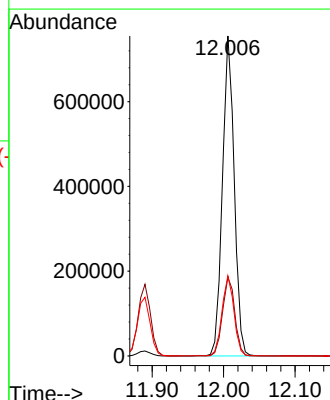
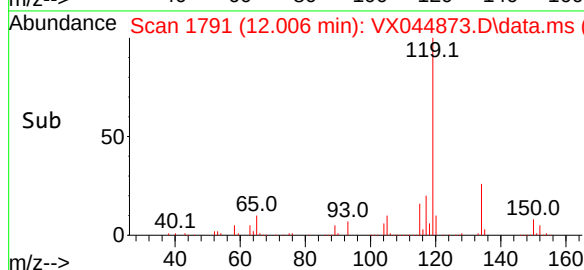
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

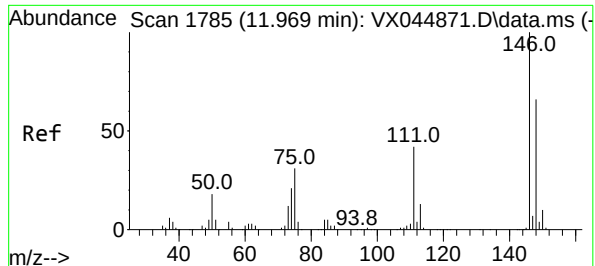


#86
p-Isopropyltoluene
Concen: 154.987 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28



Tgt Ion:119 Resp: 865491
Ion Ratio Lower Upper
119 100
134 25.6 13.0 38.9
91 25.3 12.1 36.3





#87

1,3-Dichlorobenzene

Concen: 152.175 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:146 Resp: 433384

Ion Ratio Lower Upper

146 100

111 43.0 21.2 63.6

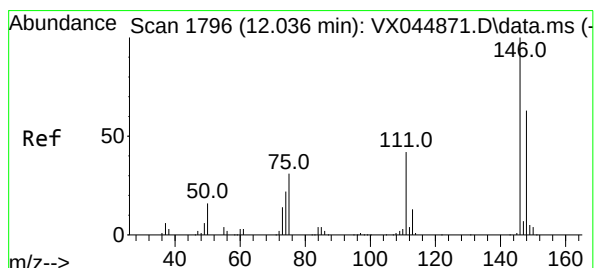
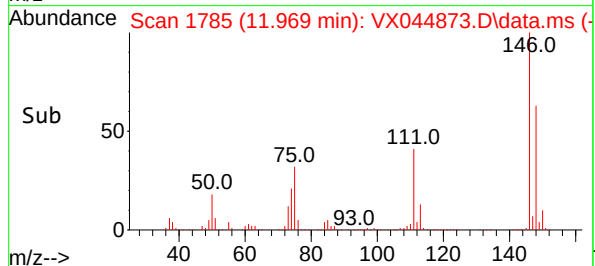
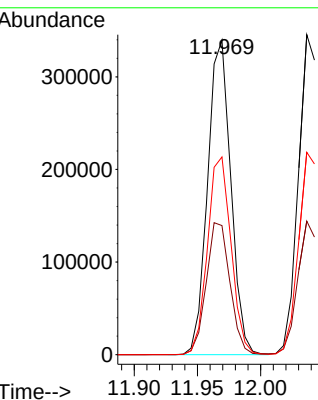
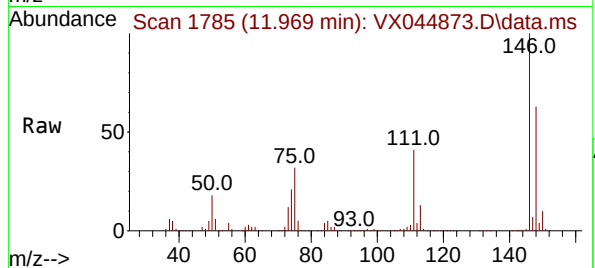
148 63.9 32.5 97.5

Manual Integrations

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Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#88

1,4-Dichlorobenzene

Concen: 150.362 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

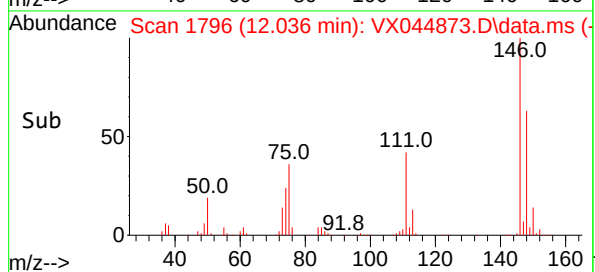
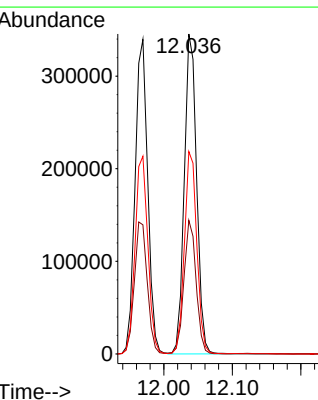
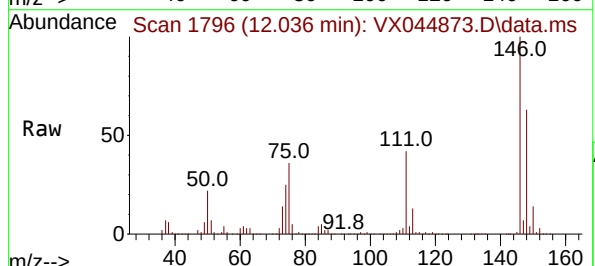
Tgt Ion:146 Resp: 432987

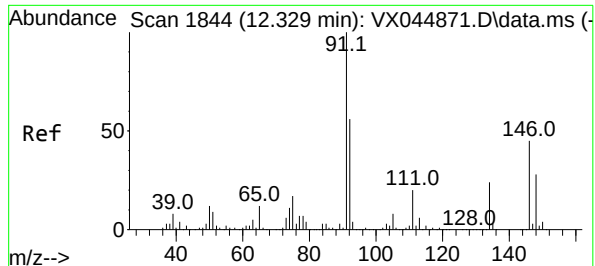
Ion Ratio Lower Upper

146 100

111 41.2 20.4 61.3

148 63.7 32.0 96.0





#89

n-Butylbenzene

Concen: 167.469 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 82735

Ion Ratio Lower Upper

91 100

92 54.2 27.2 81.6

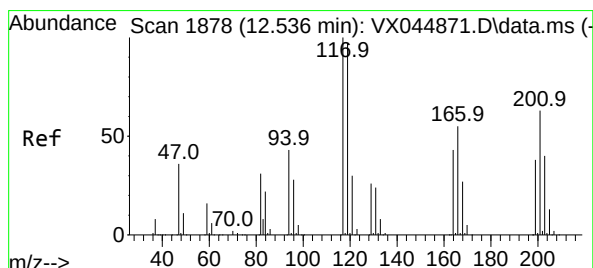
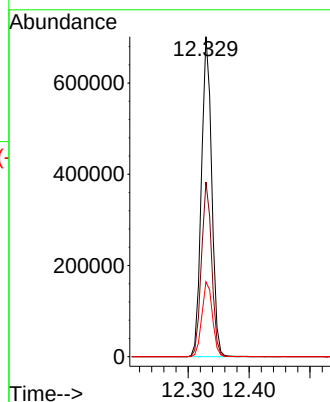
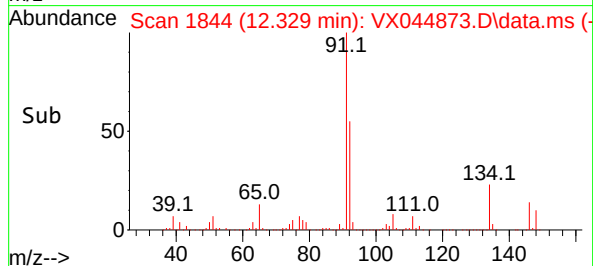
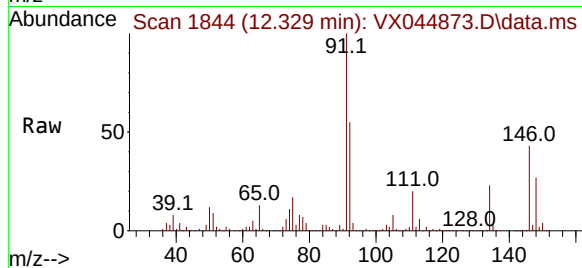
134 24.0 12.1 36.3

Manual Integrations

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Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#90

Hexachloroethane

Concen: 167.760 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX044873.D

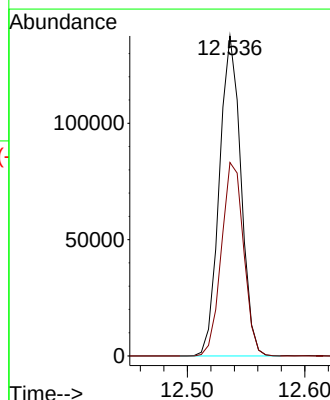
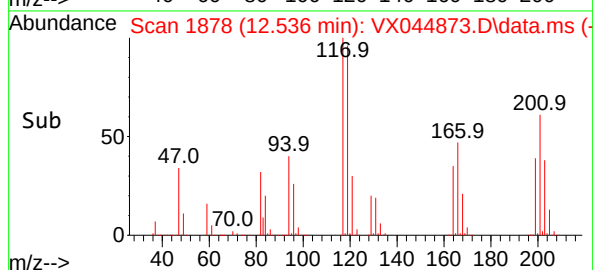
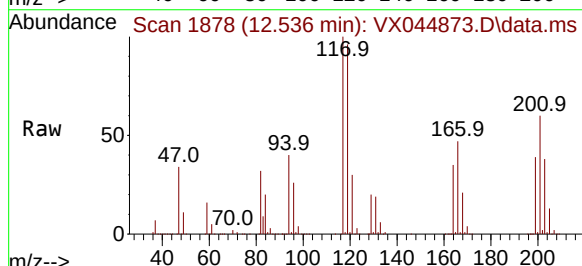
Acq: 10 Feb 2025 12:28

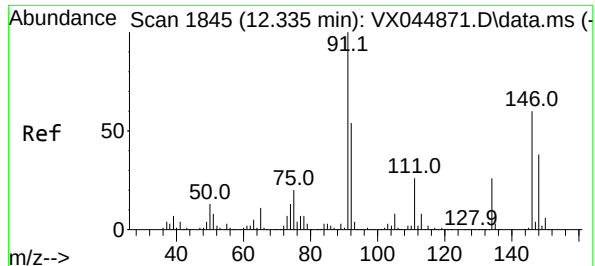
Tgt Ion:117 Resp: 175414

Ion Ratio Lower Upper

117 100

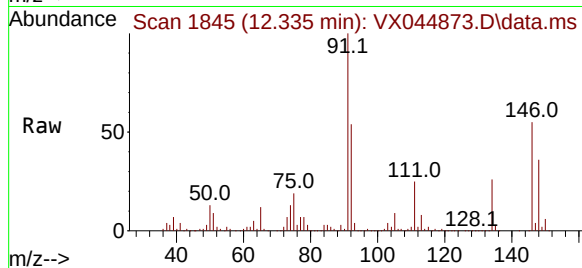
201 62.4 32.5 97.5





#91
1,2-Dichlorobenzene
Concen: 149.042 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

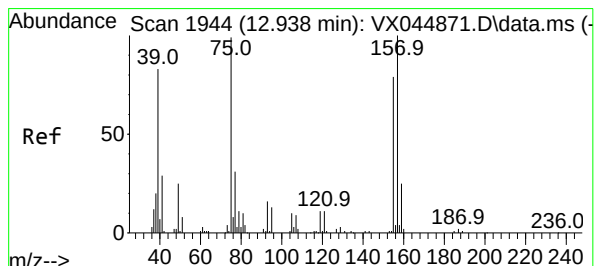
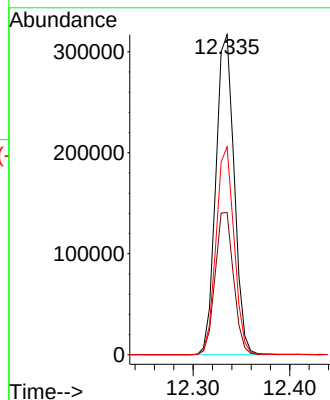
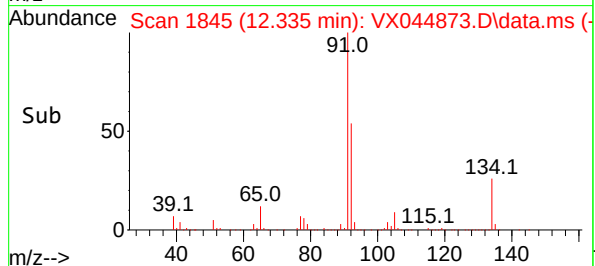
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:146 Resp: 41716
Ion Ratio Lower Upper
146 100
111 44.9 21.8 65.4
148 64.1 31.9 95.9

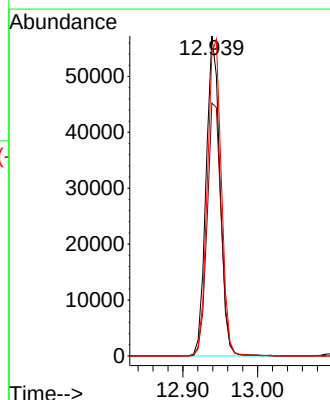
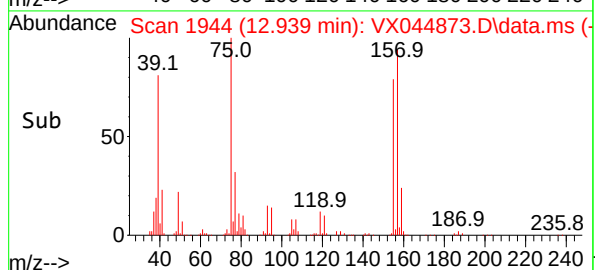
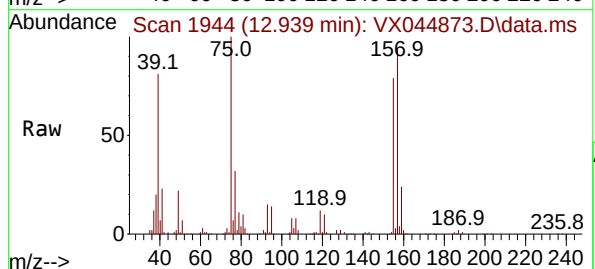
Manual Integrations
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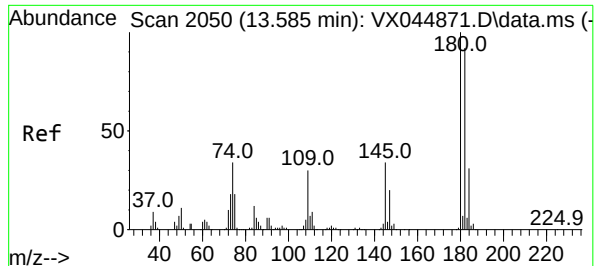
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 171.783 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 75 Resp: 73593
Ion Ratio Lower Upper
75 100
155 80.1 40.5 121.4
157 100.5 51.4 154.3





#93

1,2,4-Trichlorobenzene

Concen: 167.095 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:180 Resp: 283004

Ion Ratio Lower Upper

180 100

182 93.2 47.6 142.8

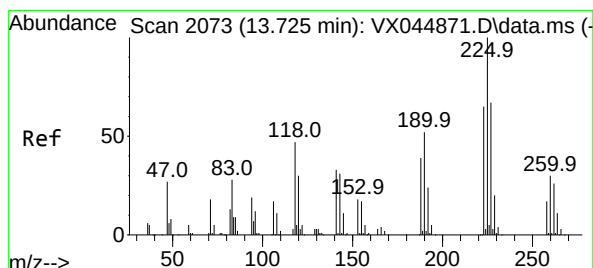
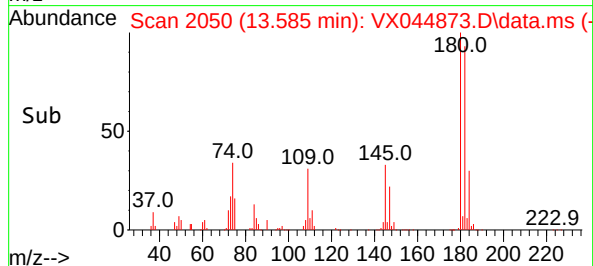
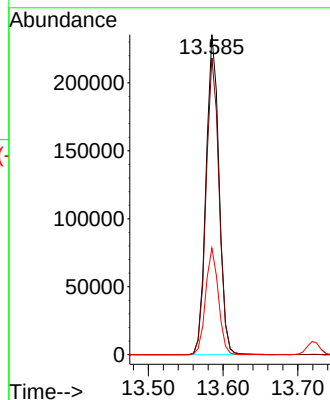
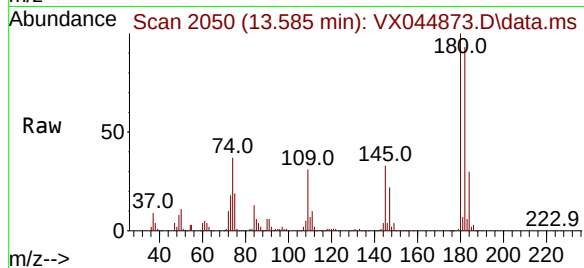
145 32.8 16.4 49.1

Manual Integrations

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Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#94

Hexachlorobutadiene

Concen: 155.682 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX044873.D

Acq: 10 Feb 2025 12:28

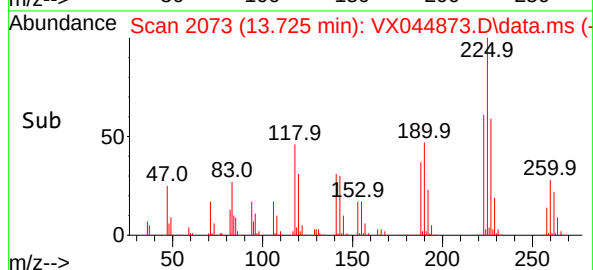
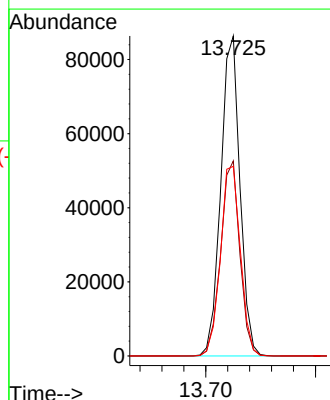
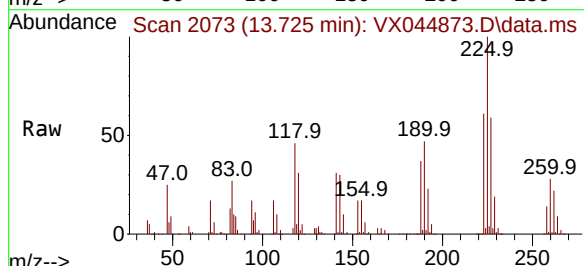
Tgt Ion:225 Resp: 104674

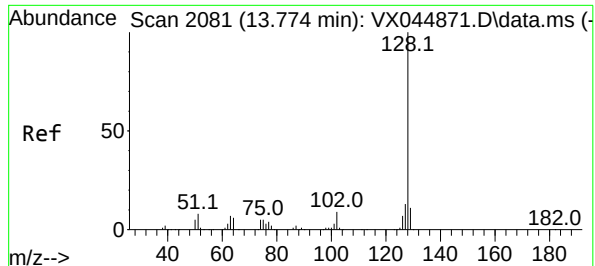
Ion Ratio Lower Upper

225 100

223 60.9 31.4 94.2

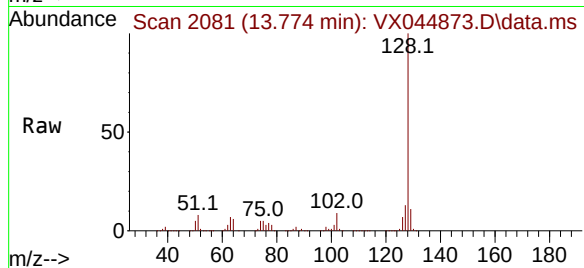
227 61.9 32.3 96.8





#95
Naphthalene
Concen: 165.916 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

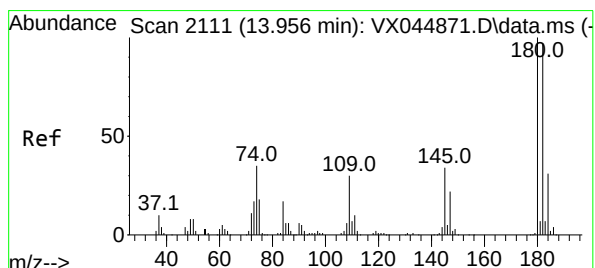
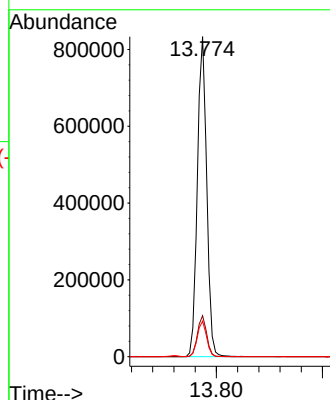
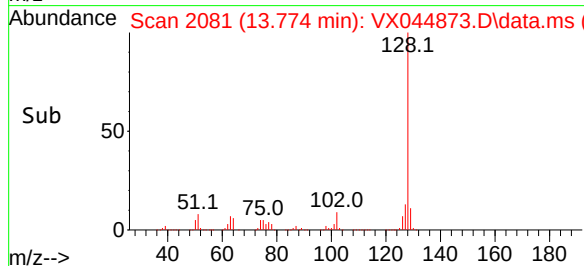
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:128 Resp: 101580
Ion Ratio Lower Upper
128 100
127 12.7 10.1 15.1
129 11.0 8.9 13.3

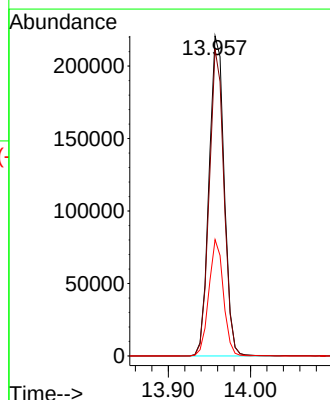
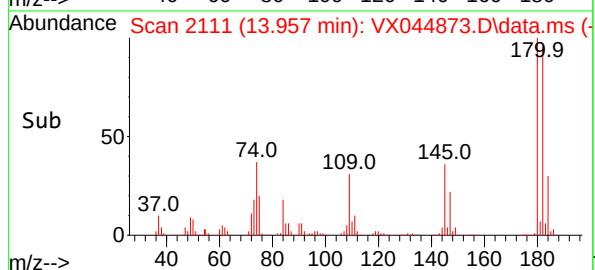
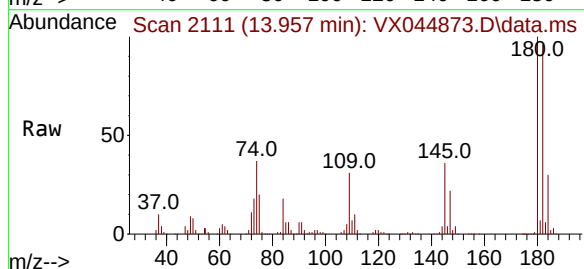
Manual Integrations
APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#96
1,2,3-Trichlorobenzene
Concen: 165.408 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:180 Resp: 282289
Ion Ratio Lower Upper
180 100
182 93.4 47.9 143.6
145 34.9 17.1 51.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044875.D
 Acq On : 10 Feb 2025 13:15
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX021025

Manual Integrations
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Reviewed By : John Carlone 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 06:02:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	135936	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	245098	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	213248	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	97087	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	95635	48.061	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.120%		
35) Dibromofluoromethane	5.379	113	78360	49.173	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.340%		
50) Toluene-d8	8.647	98	299178	49.649	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.300%		
62) 4-Bromofluorobenzene	11.079	95	105201	51.786	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	103.580%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	93752	49.173	ug/l	99
3) Chloromethane	1.300	50	110431	47.590	ug/l	98
4) Vinyl Chloride	1.374	62	105730	47.033	ug/l	100
5) Bromomethane	1.593	94	31428	46.719	ug/l	97
6) Chloroethane	1.660	64	37913	42.198	ug/l	99
7) Trichlorofluoromethane	1.867	101	138044	48.558	ug/l	97
8) Diethyl Ether	2.130	74	49018	47.544	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	86892	50.588	ug/l	98
10) Methyl Iodide	2.447	142	111488	50.082	ug/l	100
11) Tert butyl alcohol	2.983	59	92949	251.791	ug/l	100
12) 1,1-Dichloroethene	2.306	96	83987	47.935	ug/l	95
13) Acrolein	2.233	56	91744	240.879	ug/l	98
14) Allyl chloride	2.654	41	155084	48.976	ug/l	99
15) Acrylonitrile	3.062	53	247921	251.537	ug/l	99
16) Acetone	2.379	43	205743	257.198	ug/l	98
17) Carbon Disulfide	2.501	76	237694	49.472	ug/l	100
18) Methyl Acetate	2.703	43	126015	49.920	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	275685	49.453	ug/l	99
20) Methylene Chloride	2.782	84	94006	47.978	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	84720	49.129	ug/l	98
22) Diisopropyl ether	3.757	45	300357	50.138	ug/l	98
23) Vinyl Acetate	3.715	43	1257431	257.465	ug/l	100
24) 1,1-Dichloroethane	3.599	63	165351	49.329	ug/l	99
25) 2-Butanone	4.556	43	335358	258.175	ug/l	97
26) 2,2-Dichloropropane	4.464	77	133670	50.285	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	102518	49.493	ug/l	99
28) Bromochloromethane	4.891	49	72893	45.250	ug/l	99
29) Tetrahydrofuran	5.001	42	218496	253.318	ug/l	100
30) Chloroform	5.086	83	157312	48.393	ug/l	98
31) Cyclohexane	5.458	56	152073	49.211	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	134626	48.825	ug/l	100
36) 1,1-Dichloropropene	5.684	75	111968	48.702	ug/l	99
37) Ethyl Acetate	4.708	43	126071	49.300	ug/l	99
38) Carbon Tetrachloride	5.672	117	110581	49.083	ug/l	97
39) Methylcyclohexane	7.372	83	158289	53.254	ug/l	98
40) Benzene	6.031	78	358365	49.919	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044875.D
 Acq On : 10 Feb 2025 13:15
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX021025

Manual Integrations
 APPROVED

Reviewed By :John Carlone 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 06:02:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.910	41	73559	53.741	ug/l	99
42) 1,2-Dichloroethane	6.080	62	115339	50.410	ug/l	100
43) Isopropyl Acetate	6.336	43	213901	51.798	ug/l	100
44) Trichloroethene	7.116	130	81911	49.917	ug/l	99
45) 1,2-Dichloropropane	7.427	63	89992	50.387	ug/l	98
46) Dibromomethane	7.580	93	61360	49.540	ug/l	99
47) Bromodichloromethane	7.818	83	122265	50.980	ug/l	99
48) Methyl methacrylate	7.690	41	102900	52.848	ug/l	99
49) 1,4-Dioxane	7.659	88	42658	1021.138	ug/l	98
51) 4-Methyl-2-Pentanone	8.573	43	665564	265.112	ug/l	100
52) Toluene	8.714	92	216682	50.680	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	130405	53.731	ug/l	97
54) cis-1,3-Dichloropropene	8.360	75	143379	52.986	ug/l	99
55) 1,1,2-Trichloroethane	9.147	97	83510	50.811	ug/l	100
56) Ethyl methacrylate	9.116	69	143524	54.068	ug/l	99
57) 1,3-Dichloropropane	9.305	76	146236	50.852	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	370622	284.352	ug/l	99
59) 2-Hexanone	9.427	43	488298	269.951	ug/l	99
60) Dibromochloromethane	9.518	129	90826	51.673	ug/l	99
61) 1,2-Dibromoethane	9.604	107	85683	51.436	ug/l	100
64) Tetrachloroethene	9.268	164	66468	49.424	ug/l	98
65) Chlorobenzene	10.079	112	233373	50.952	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	75488	51.205	ug/l	98
67) Ethyl Benzene	10.189	91	415575	51.415	ug/l	99
68) m/p-Xylenes	10.299	106	310925	104.282	ug/l	100
69) o-Xylene	10.640	106	151995	50.804	ug/l	100
70) Styrene	10.652	104	257972	53.521	ug/l	100
71) Bromoform	10.799	173	59409	53.997	ug/l #	100
73) Isopropylbenzene	10.957	105	390246	49.921	ug/l	100
74) N-amyl acetate	10.841	43	186145	52.621	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	129829	48.331	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	106893m	49.659	ug/l	
77) Bromobenzene	11.195	156	88129	49.725	ug/l	100
78) n-propylbenzene	11.299	91	463655	51.386	ug/l	99
79) 2-Chlorotoluene	11.360	91	272091	49.065	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	323251	50.956	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	44070	52.665	ug/l	99
82) 4-Chlorotoluene	11.451	91	312112	50.872	ug/l	100
83) tert-Butylbenzene	11.713	119	321772	50.139	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	323035	51.593	ug/l	100
85) sec-Butylbenzene	11.890	105	410197	51.617	ug/l	100
86) p-Isopropyltoluene	12.006	119	336027	52.581	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	164508	50.475	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	163203	49.526	ug/l	100
89) n-Butylbenzene	12.329	91	311764	55.142	ug/l	100
90) Hexachloroethane	12.536	117	61016	50.990	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	161590	50.447	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	25339	51.684	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	102197	52.726	ug/l	99
94) Hexachlorobutadiene	13.719	225	38998	50.683	ug/l	98
95) Naphthalene	13.774	128	371576	53.033	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	100730	51.575	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

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

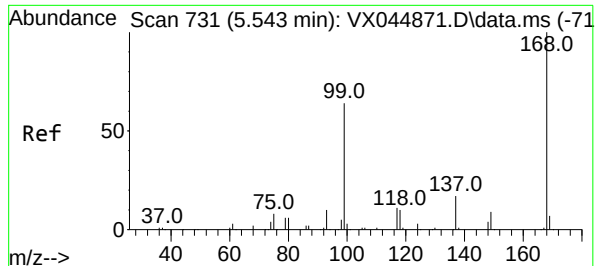
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Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations

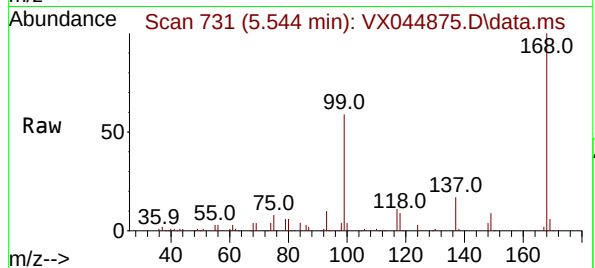
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. 0.001 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

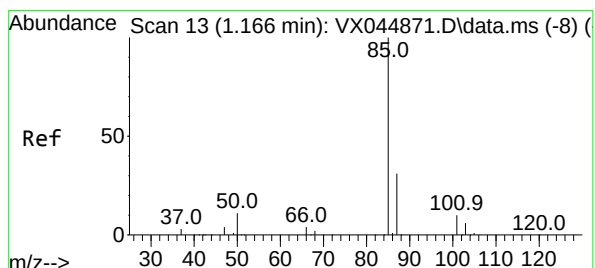
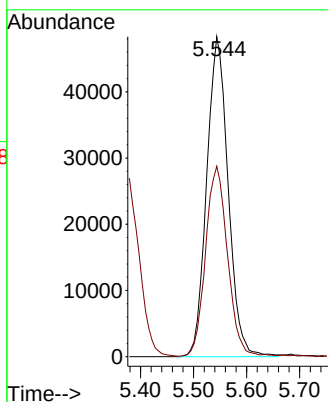
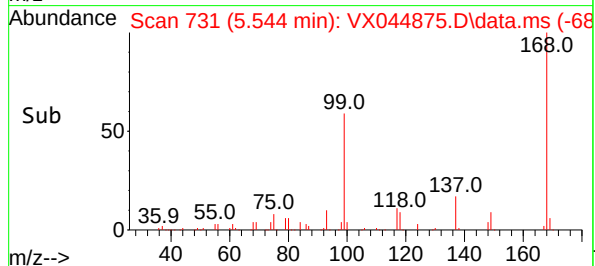
Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025



Tgt Ion:168 Resp: 135930
Ion Ratio Lower Upper
168 100
99 59.3 51.2 76.8

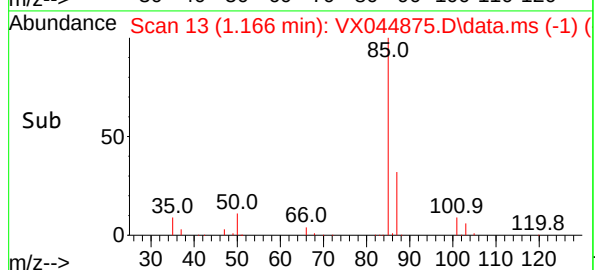
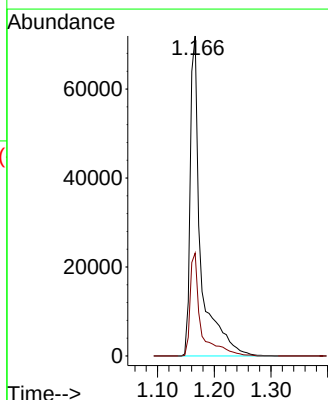
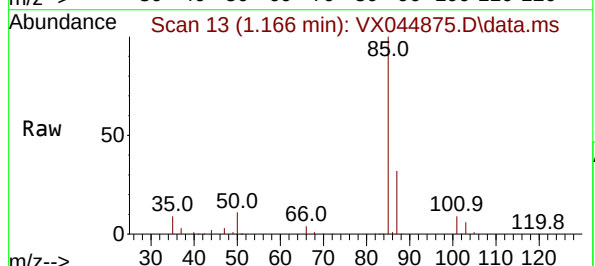
Manual Integrations
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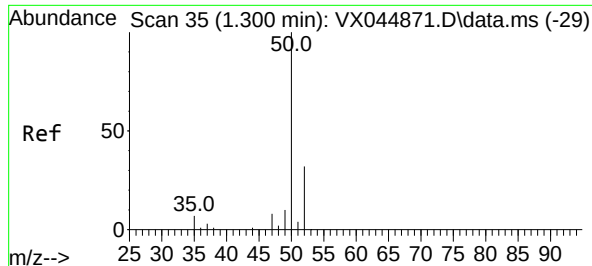
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#2
Dichlorodifluoromethane
Concen: 49.173 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

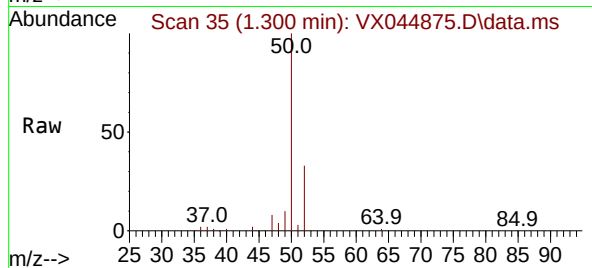
Tgt Ion: 85 Resp: 93752
Ion Ratio Lower Upper
85 100
87 32.1 15.8 47.3





#3
Chloromethane
Concen: 47.590 ug/l
RT: 1.300 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

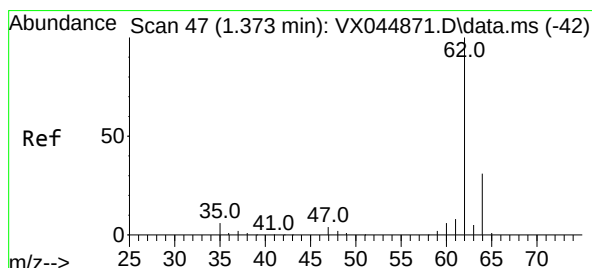
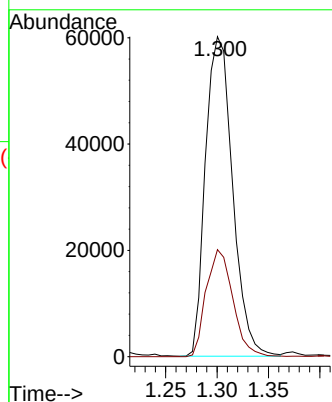
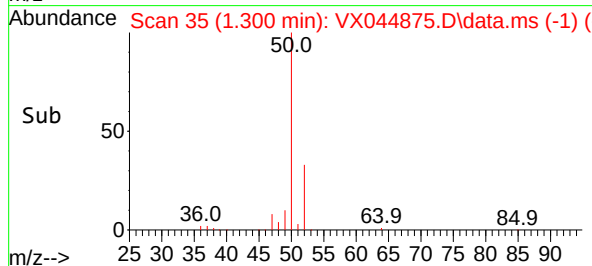
Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025



Tgt Ion: 50 Resp: 11043
Ion Ratio Lower Upper
50 100
52 33.5 25.9 38.9

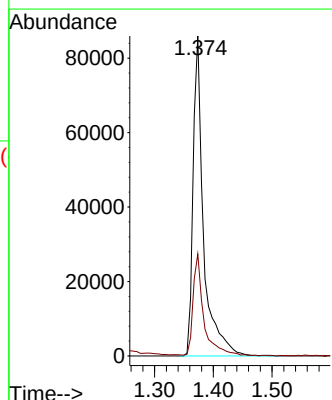
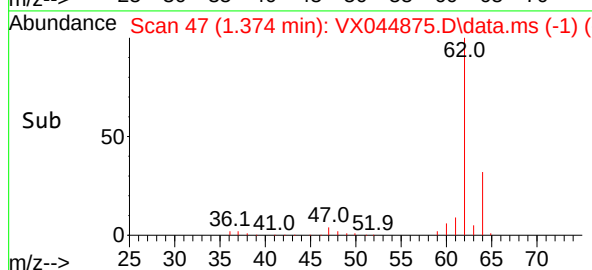
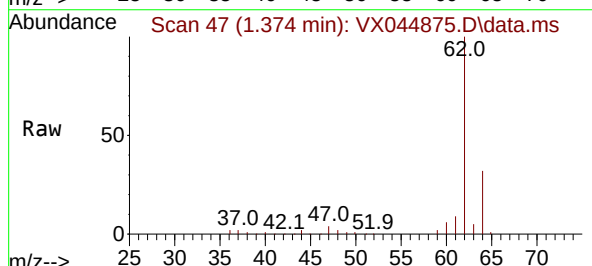
Manual Integrations
APPROVED

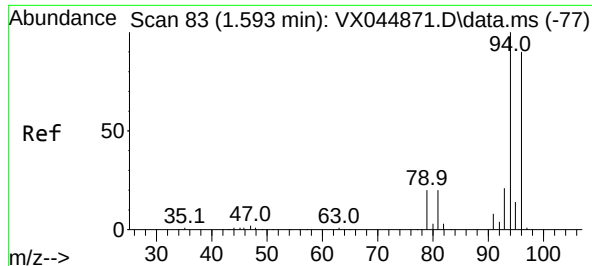
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#4
Vinyl Chloride
Concen: 47.033 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 62 Resp: 105730
Ion Ratio Lower Upper
62 100
64 31.7 25.4 38.0





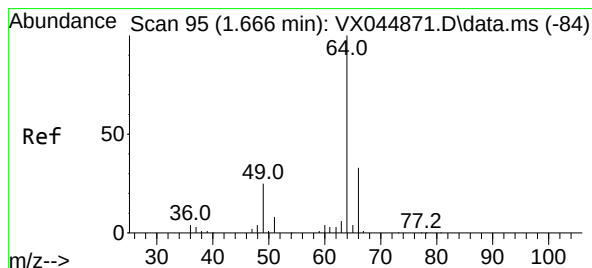
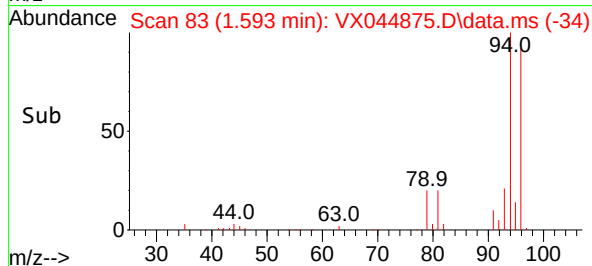
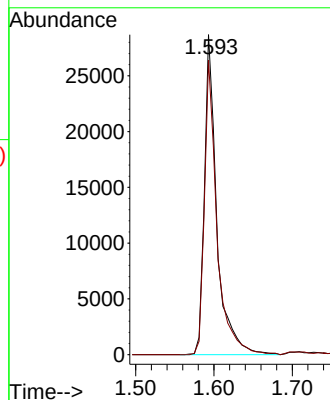
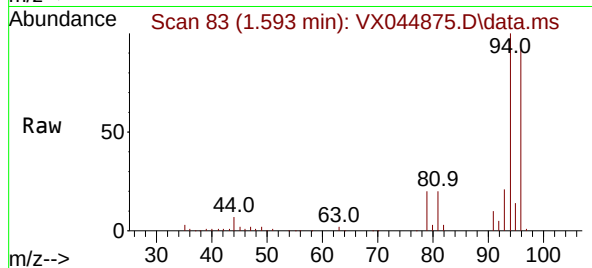
#5
Bromomethane
Concen: 46.719 ug/l
RT: 1.593 min Scan# 83
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 94 Resp: 31428
Ion Ratio Lower Upper
94 100
96 92.0 71.6 107.4

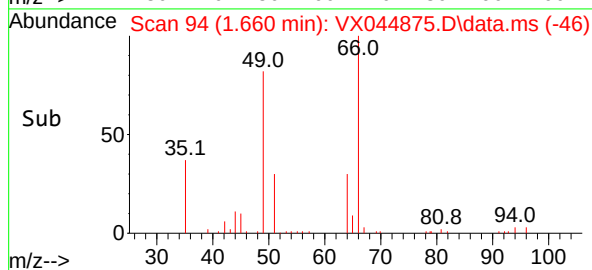
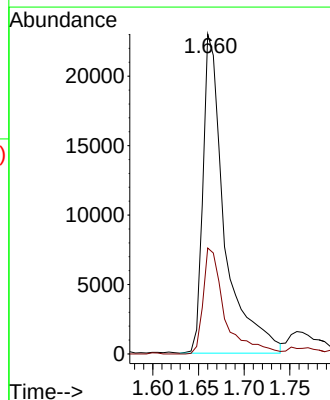
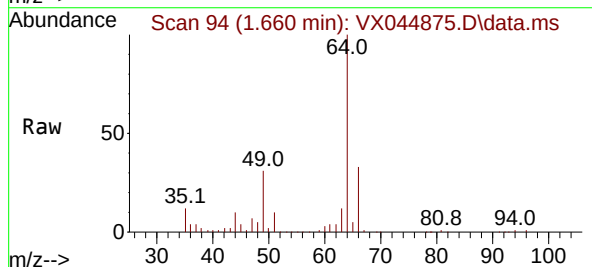
Manual Integrations
APPROVED

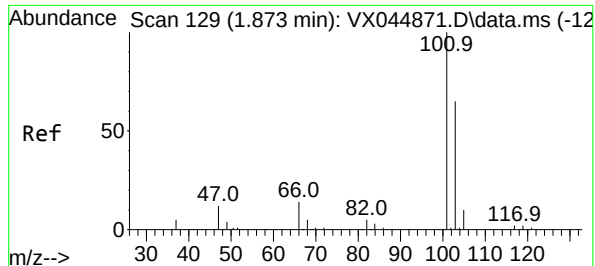
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#6
Chloroethane
Concen: 42.198 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

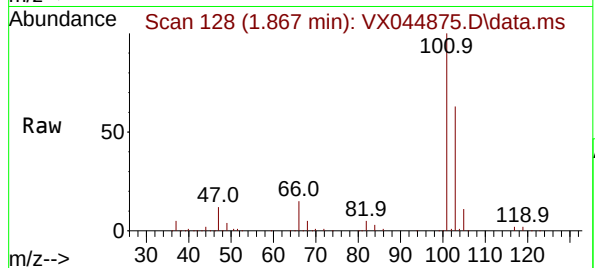
Tgt Ion: 64 Resp: 37913
Ion Ratio Lower Upper
64 100
66 33.2 25.9 38.9





#7
Trichlorofluoromethane
Concen: 48.558 ug/l
RT: 1.867 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

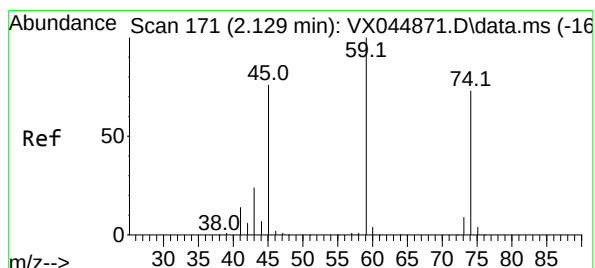
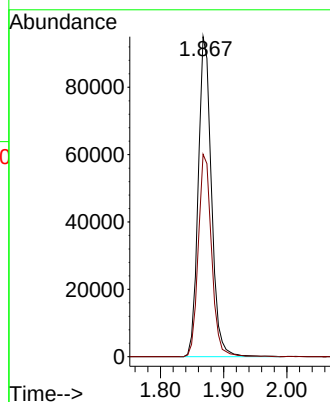
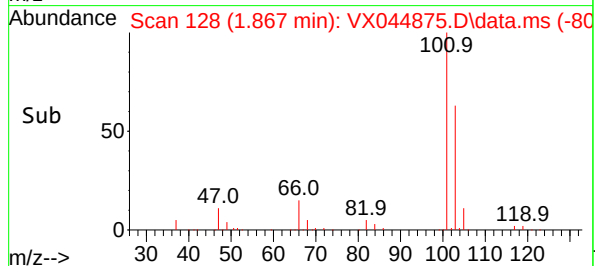
Instrument :
MSVOA_X
ClientSampleId :
ICVX021025



Tgt Ion:101 Resp: 13804
Ion Ratio Lower Upper
101 100
103 63.3 52.4 78.6

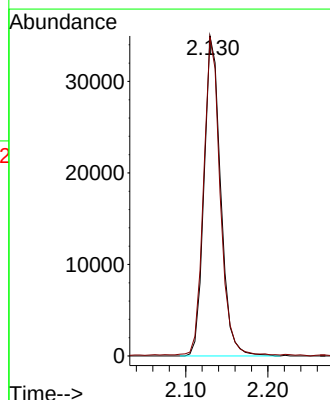
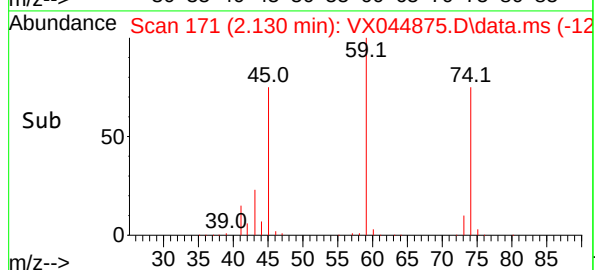
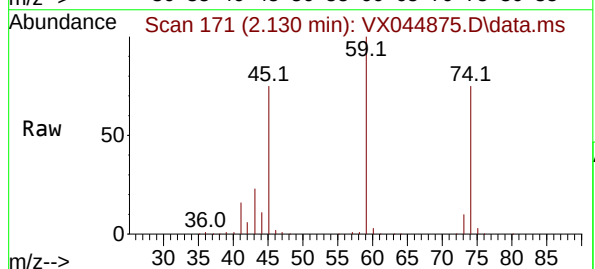
Manual Integrations
APPROVED

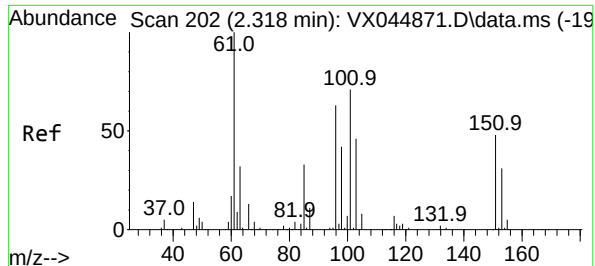
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#8
Diethyl Ether
Concen: 47.544 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.001 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 74 Resp: 49018
Ion Ratio Lower Upper
74 100
45 98.9 51.1 153.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.588 ug/l

RT: 2.319 min Scan# 202

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVVX021025

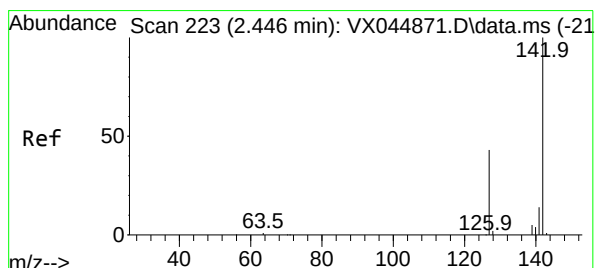
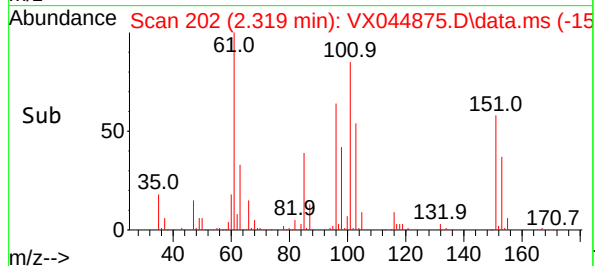
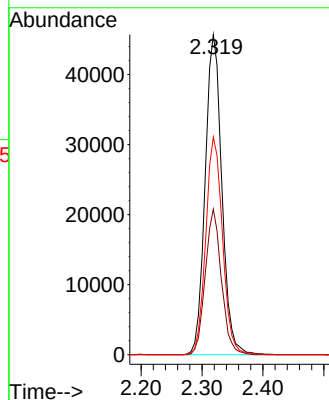
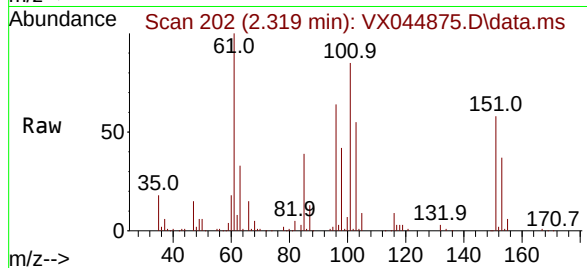
Tgt Ion:	101	Resp:	8689
Ion	Ratio	Lower	Upper
101	100		
85	43.9	35.7	53.5
151	68.4	56.0	84.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#10

Methyl Iodide

Concen: 50.082 ug/l

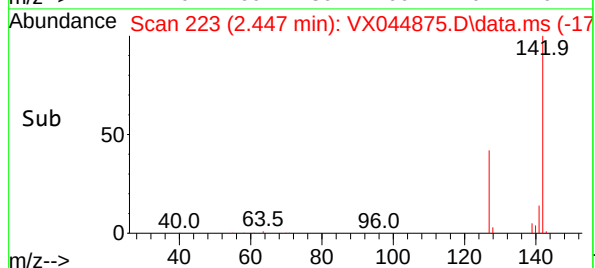
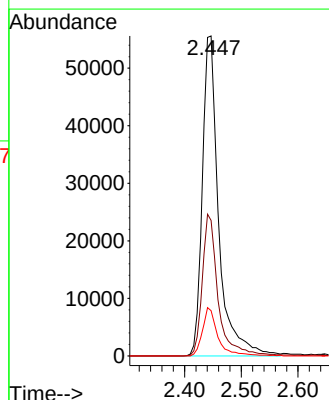
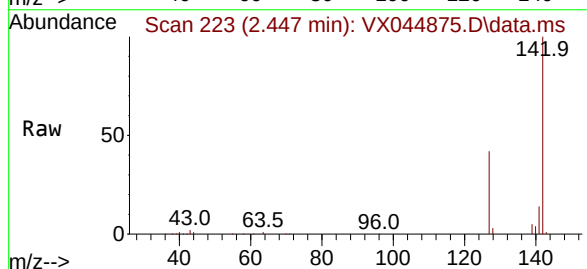
RT: 2.447 min Scan# 223

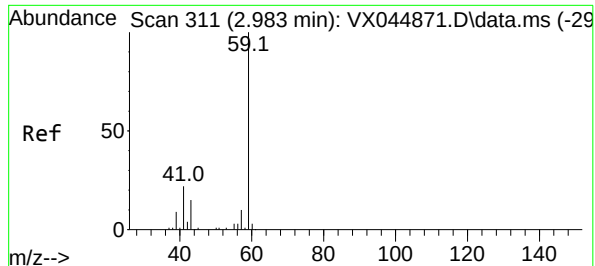
Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Tgt Ion:	142	Resp:	111488
Ion	Ratio	Lower	Upper
142	100		
127	43.1	34.3	51.5
141	14.3	11.4	17.2





#11

Tert butyl alcohol

Concen: 251.791 ug/l

RT: 2.983 min Scan# 311

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVVX021025

Tgt Ion: 59 Resp: 92949

Ion Ratio Lower Upper

59 100

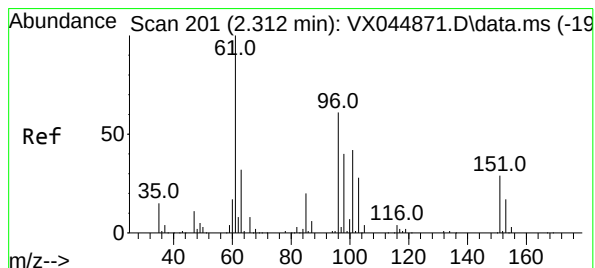
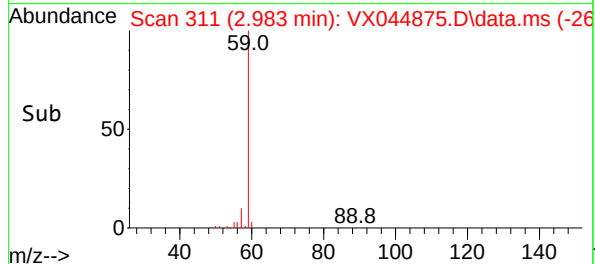
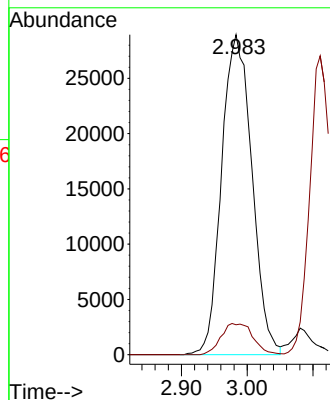
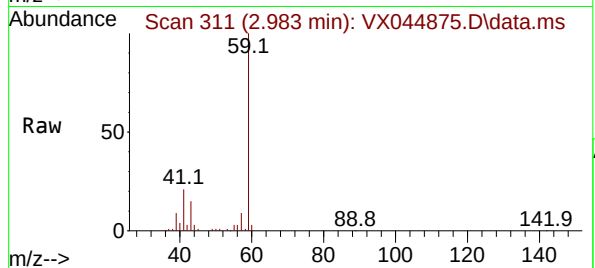
57 10.3 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#12

1,1-Dichloroethene

Concen: 47.935 ug/l

RT: 2.306 min Scan# 200

Delta R.T. -0.006 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

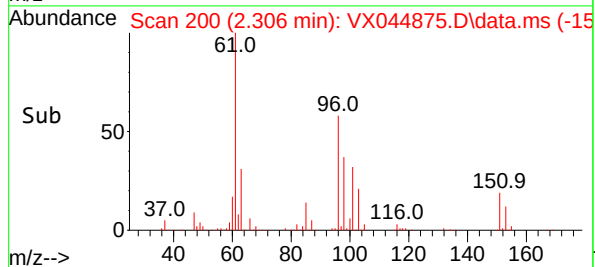
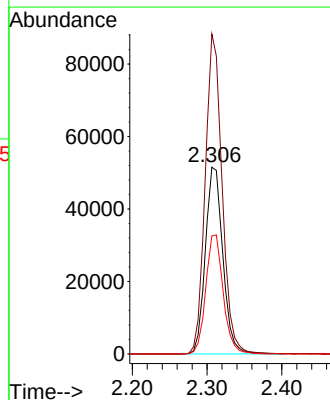
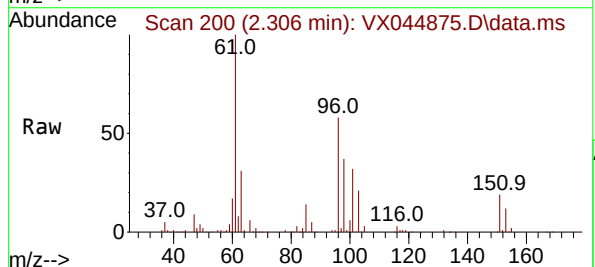
Tgt Ion: 96 Resp: 83987

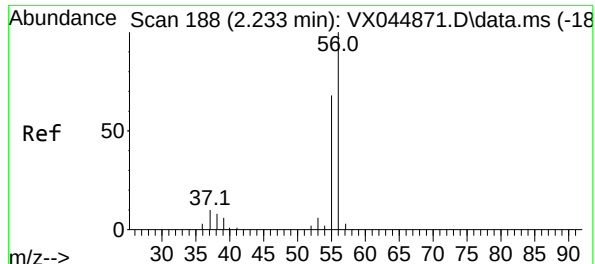
Ion Ratio Lower Upper

96 100

61 171.4 130.2 195.4

98 63.3 52.2 78.4





#13

Acrolein

Concen: 240.879 ug/l

RT: 2.233 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX021025

Tgt Ion: 56 Resp: 91744

Ion Ratio Lower Upper

56 100

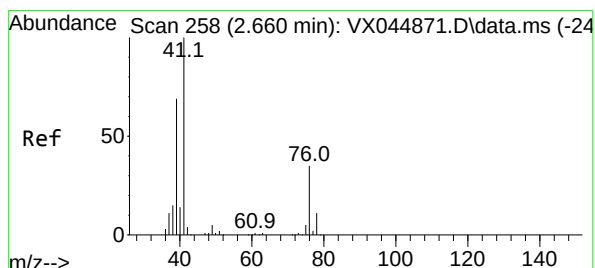
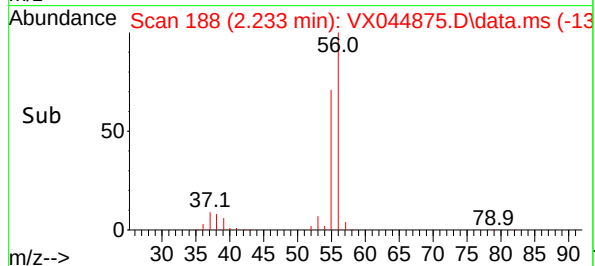
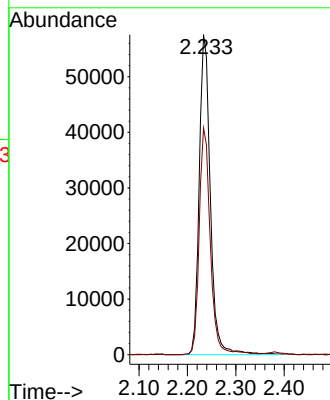
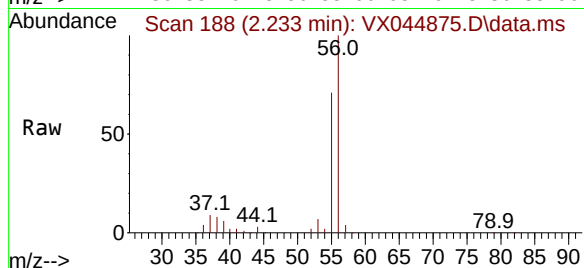
55 71.0 55.7 83.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#14

Allyl chloride

Concen: 48.976 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.006 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

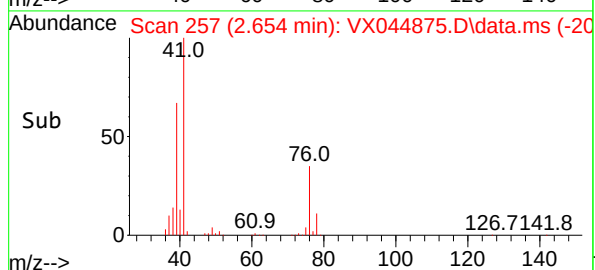
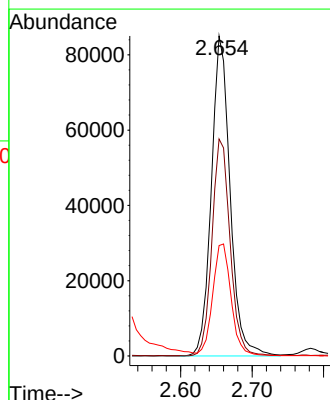
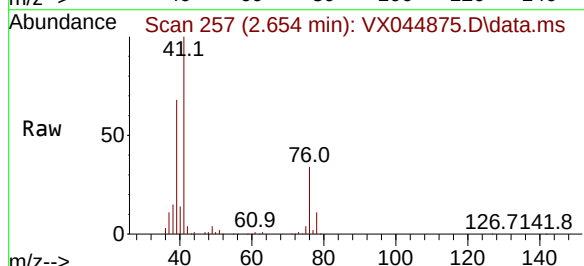
Tgt Ion: 41 Resp: 155084

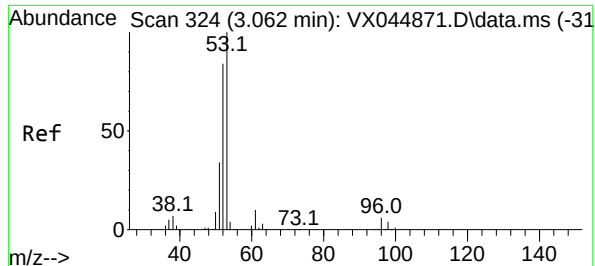
Ion Ratio Lower Upper

41 100

39 65.4 51.4 77.2

76 34.2 27.0 40.4





#15

Acrylonitrile

Concen: 251.537 ug/l

RT: 3.062 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX021025

Tgt Ion: 53 Resp: 24792

Ion Ratio Lower Upper

53 100

52 82.3 65.0 97.6

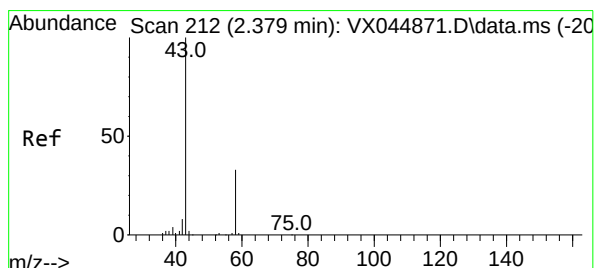
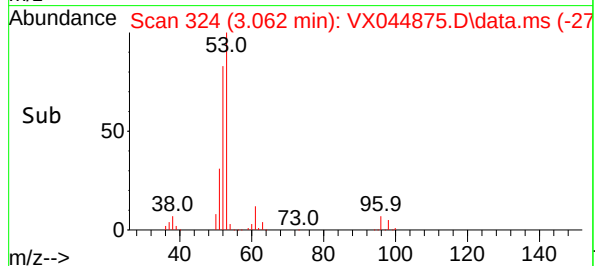
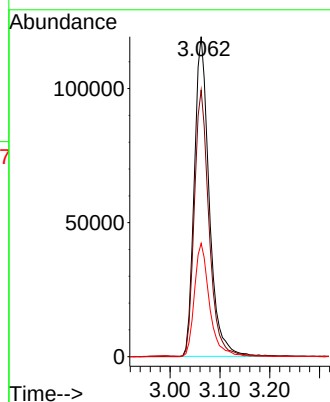
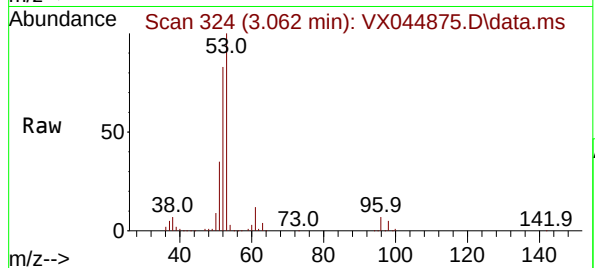
51 35.7 28.0 42.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#16

Acetone

Concen: 257.198 ug/l

RT: 2.379 min Scan# 212

Delta R.T. 0.000 min

Lab File: VX044875.D

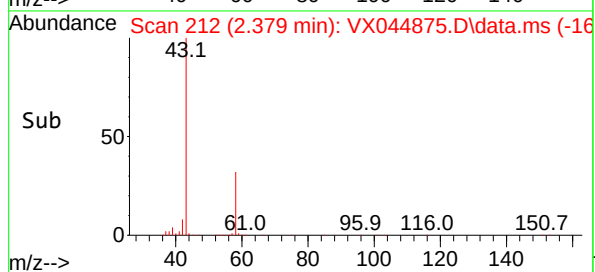
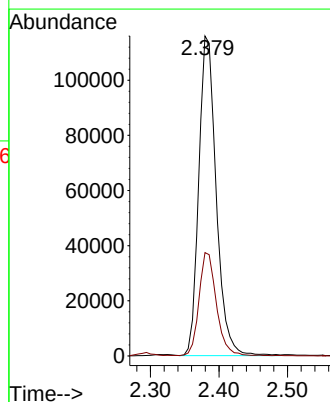
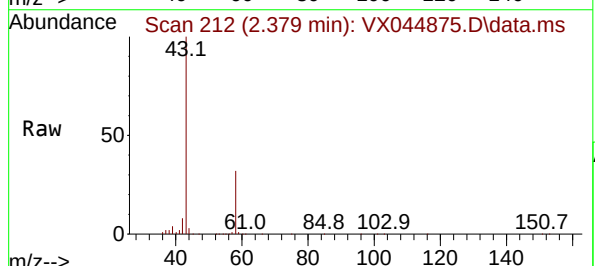
Acq: 10 Feb 2025 13:15

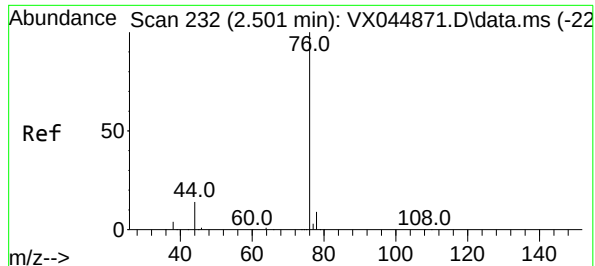
Tgt Ion: 43 Resp: 205743

Ion Ratio Lower Upper

43 100

58 32.2 26.5 39.7





#17

Carbon Disulfide

Concen: 49.472 ug/l

RT: 2.501 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVVX021025

Tgt Ion: 76 Resp: 237694

Ion Ratio Lower Upper

76 100

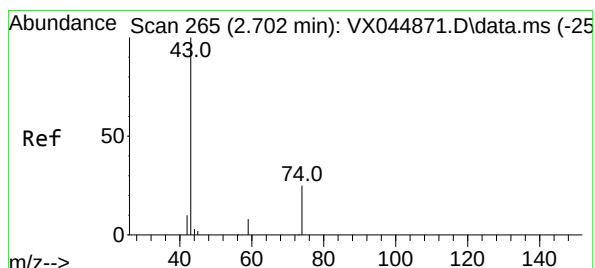
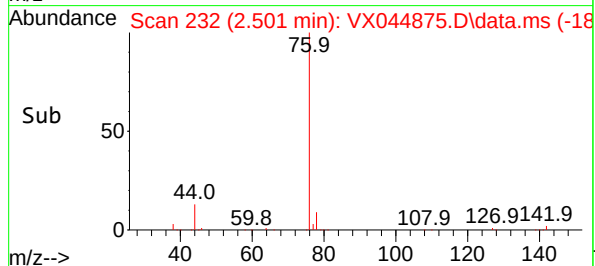
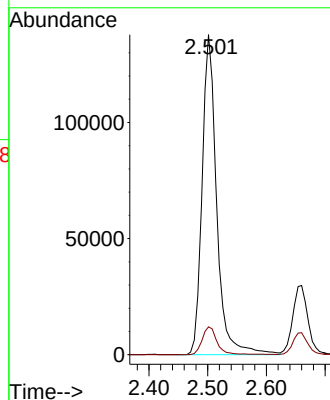
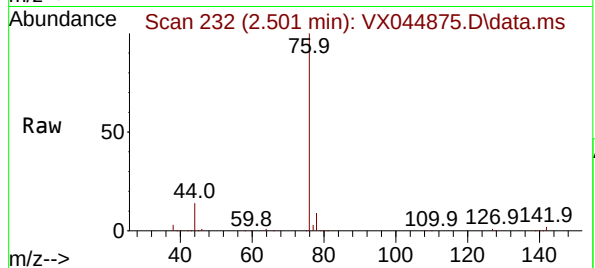
78 8.7 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#18

Methyl Acetate

Concen: 49.920 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX044875.D

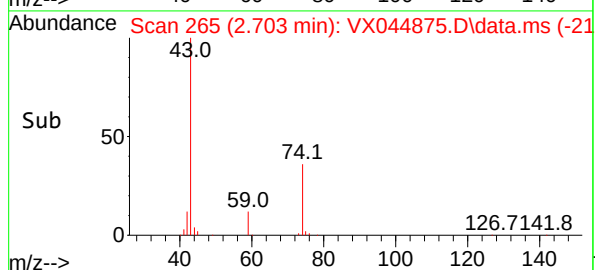
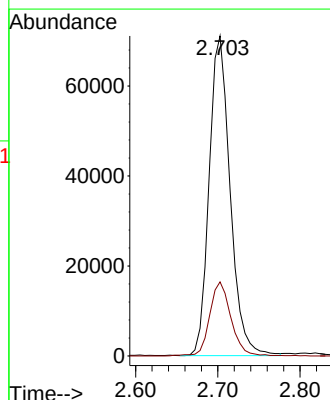
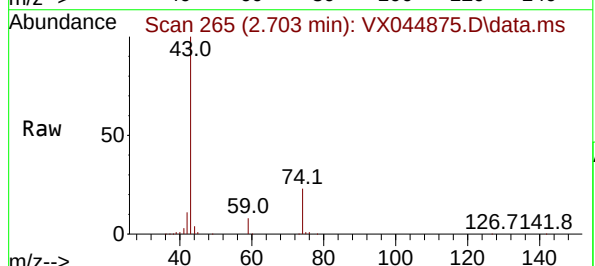
Acq: 10 Feb 2025 13:15

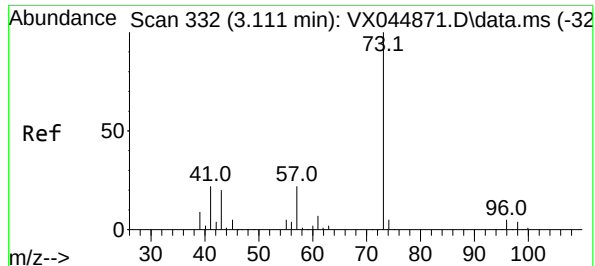
Tgt Ion: 43 Resp: 126015

Ion Ratio Lower Upper

43 100

74 23.7 18.9 28.3





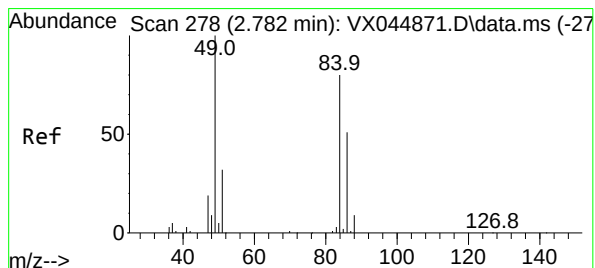
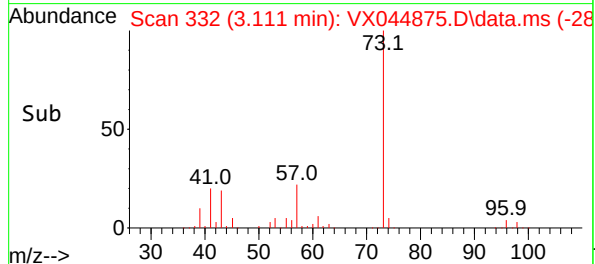
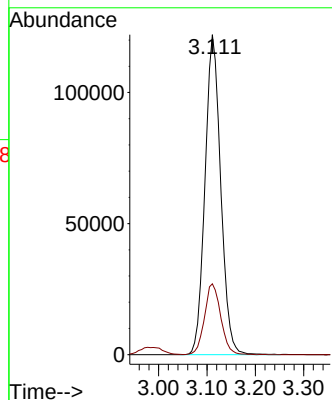
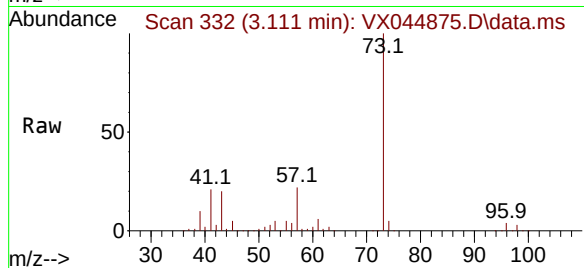
#19
Methyl tert-butyl Ether
Concen: 49.453 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 73 Resp: 27568
Ion Ratio Lower Upper
73 100
57 22.2 17.9 26.9

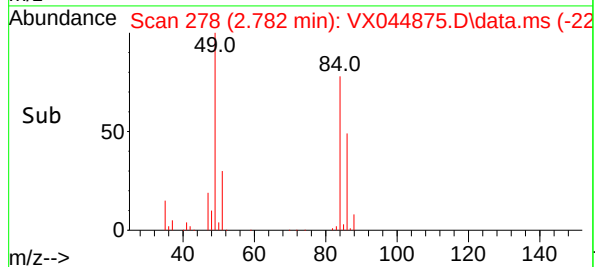
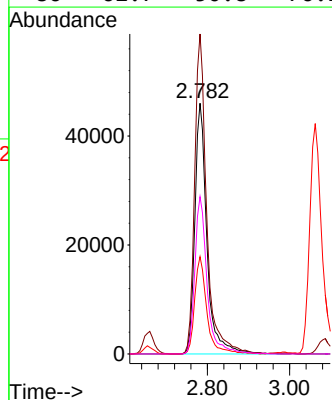
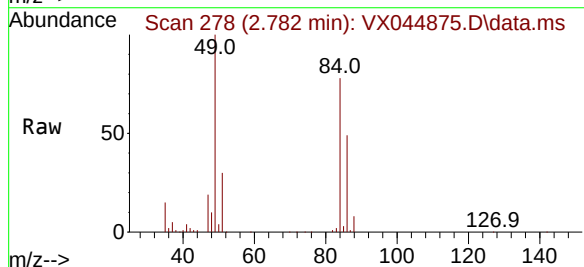
Manual Integrations
APPROVED

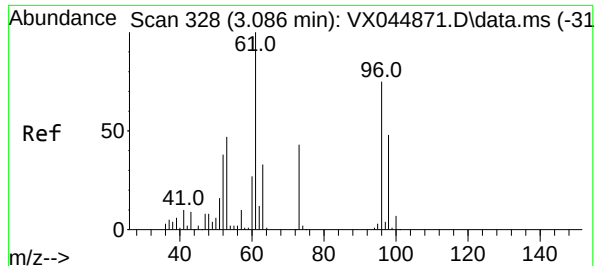
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#20
Methylene Chloride
Concen: 47.978 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

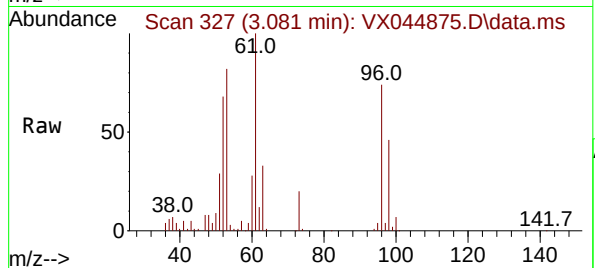
Tgt Ion: 84 Resp: 94006
Ion Ratio Lower Upper
84 100
49 127.6 100.1 150.1
51 38.8 31.7 47.5
86 62.7 50.8 76.2





#21
trans-1,2-Dichloroethene
Concen: 49.129 ug/l
RT: 3.081 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

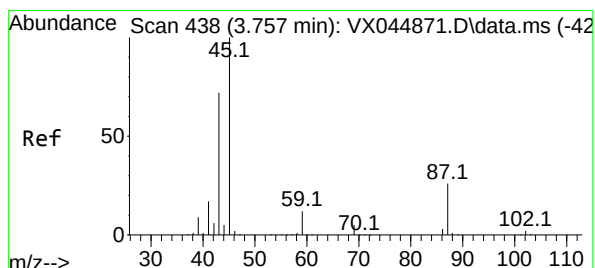
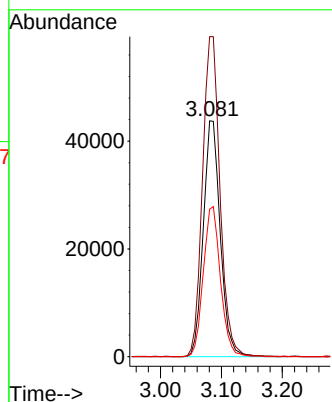
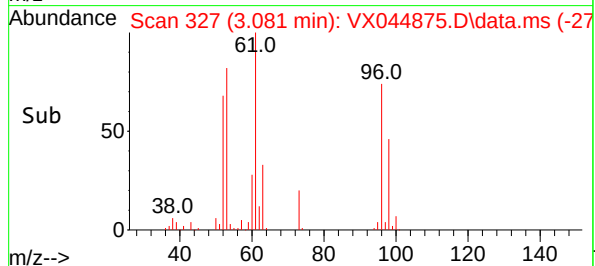
Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025



Tgt Ion: 96 Resp: 84720
Ion Ratio Lower Upper
96 100
61 135.7 106.0 159.0
98 62.5 50.6 76.0

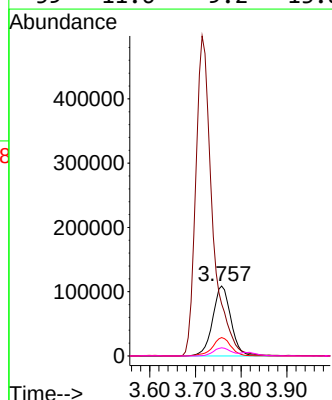
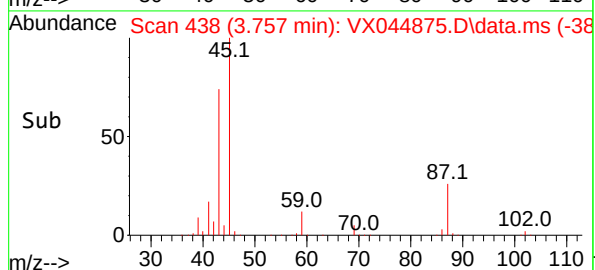
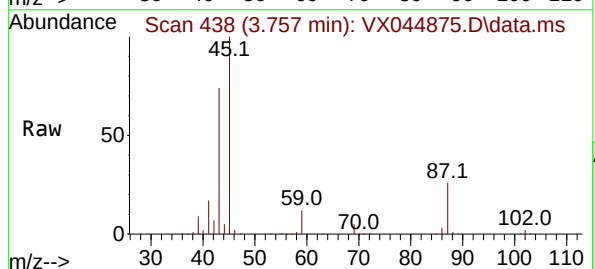
Manual Integrations
APPROVED

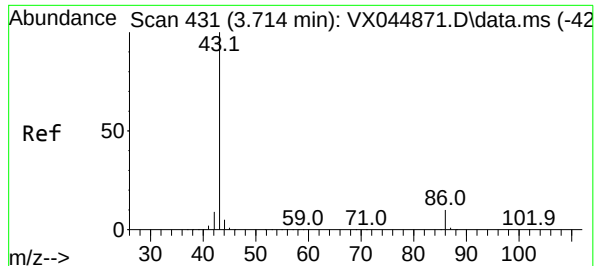
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#22
Diisopropyl ether
Concen: 50.138 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 45 Resp: 300357
Ion Ratio Lower Upper
45 100
43 74.3 58.0 87.0
87 26.4 20.7 31.1
59 11.6 9.2 13.8





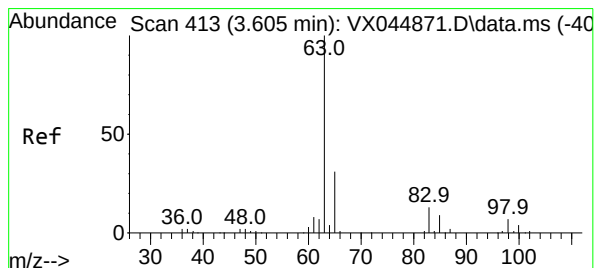
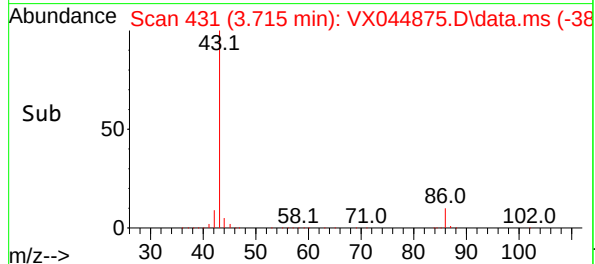
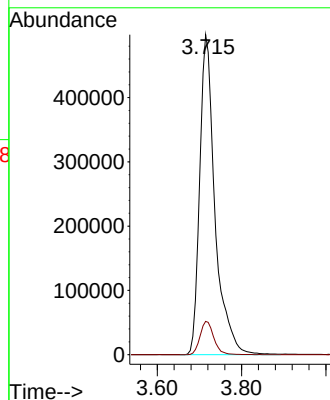
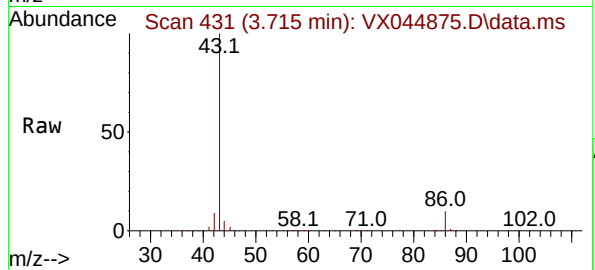
#23
Vinyl Acetate
Concen: 257.465 ug/l
RT: 3.715 min Scan# 411
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVX021025

Tgt Ion: 43 Resp: 125743
Ion Ratio Lower Upper
43 100
86 10.4 8.3 12.5

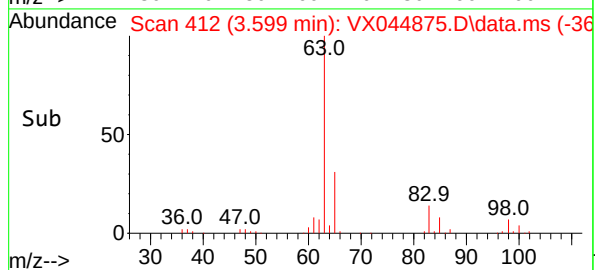
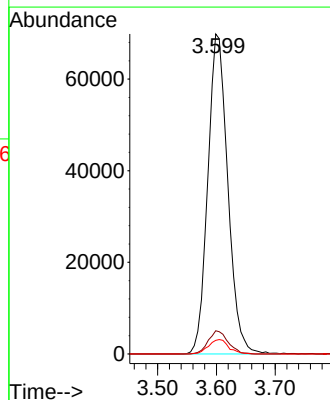
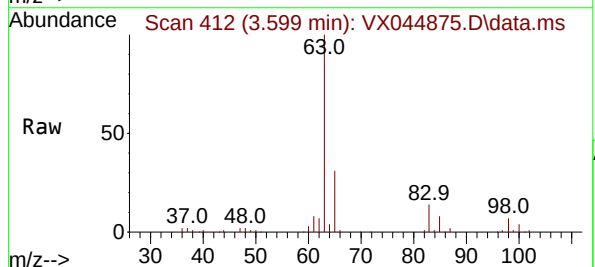
Manual Integrations
APPROVED

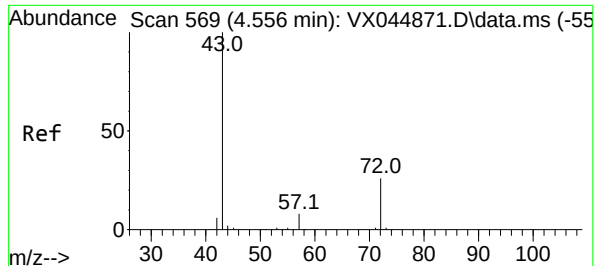
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#24
1,1-Dichloroethane
Concen: 49.329 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 63 Resp: 165351
Ion Ratio Lower Upper
63 100
98 7.3 3.3 9.9
100 4.2 2.1 6.5





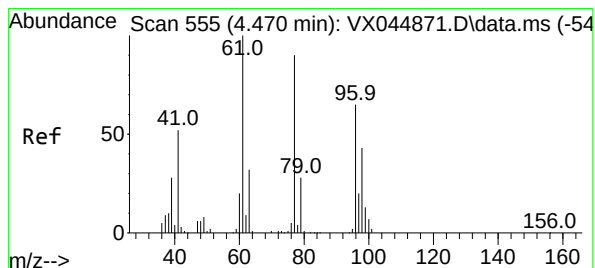
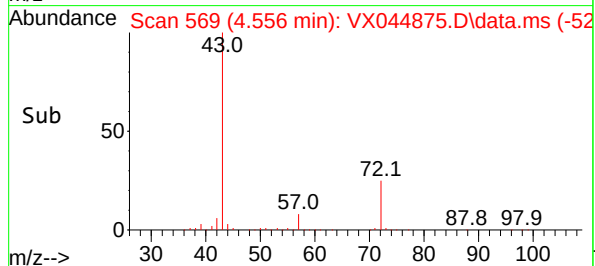
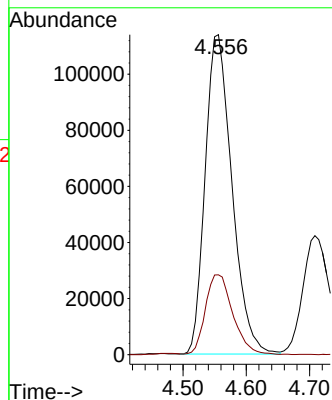
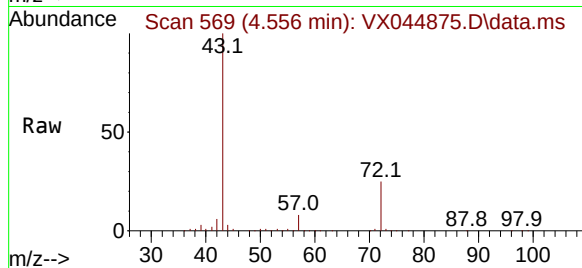
#25
2-Butanone
Concen: 258.175 ug/l
RT: 4.556 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 43 Resp: 335358
Ion Ratio Lower Upper
43 100
72 24.9 21.2 31.8

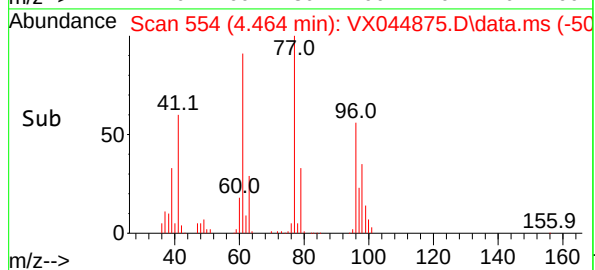
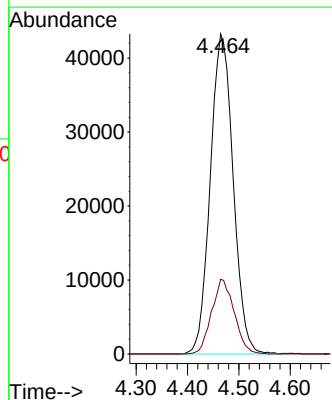
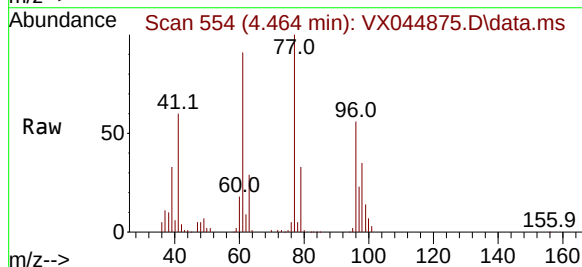
Manual Integrations
APPROVED

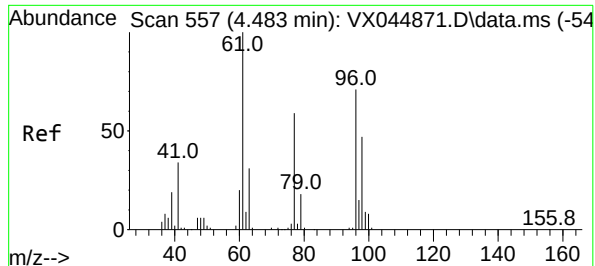
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#26
2,2-Dichloropropane
Concen: 50.285 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 77 Resp: 133670
Ion Ratio Lower Upper
77 100
97 23.0 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 49.493 ug/l

RT: 4.477 min Scan# 556

Delta R.T. -0.006 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX021025

Tgt Ion: 96 Resp: 102518

Ion Ratio Lower Upper

96 100

61 146.5 0.0 294.0

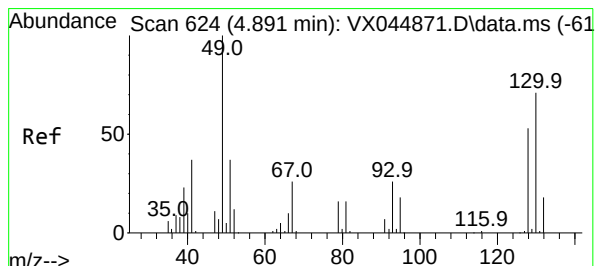
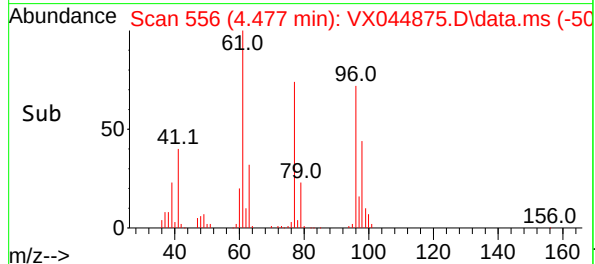
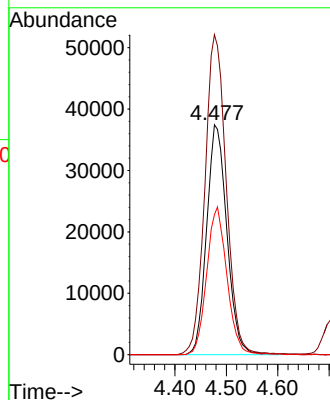
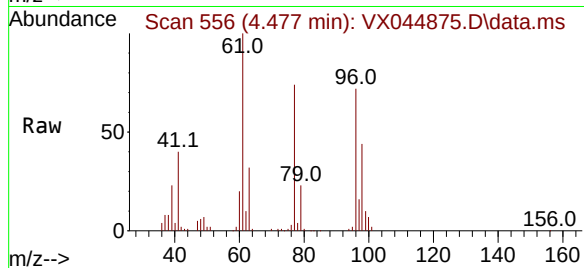
98 63.9 0.0 131.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#28

Bromochloromethane

Concen: 45.250 ug/l

RT: 4.891 min Scan# 624

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

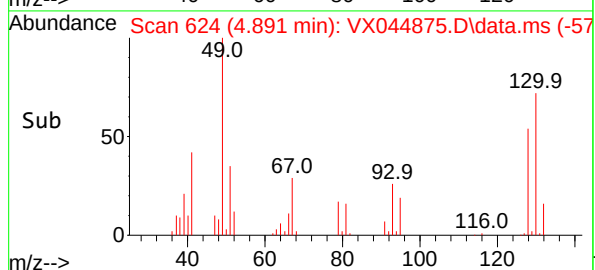
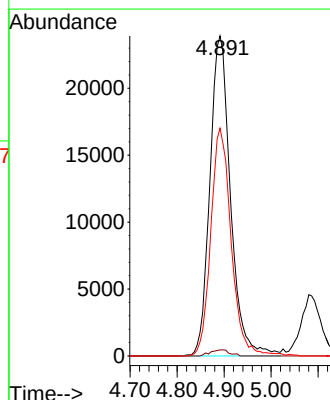
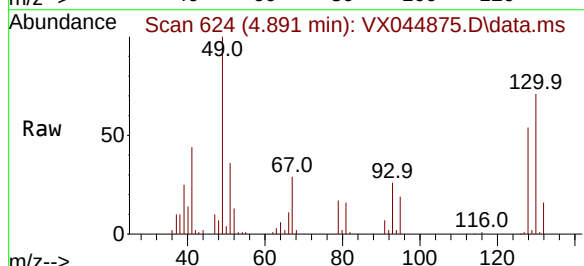
Tgt Ion: 49 Resp: 72893

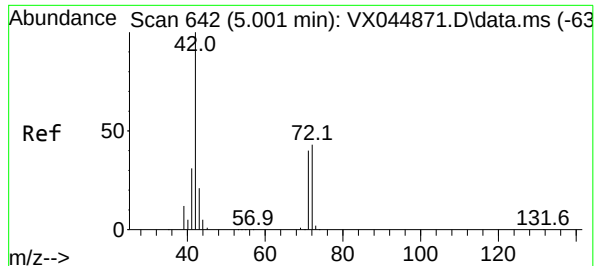
Ion Ratio Lower Upper

49 100

129 1.8 0.0 3.6

130 70.3 56.7 85.1





#29

Tetrahydrofuran

Concen: 253.318 ug/l

RT: 5.001 min Scan# 642

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX021025

Tgt Ion: 42 Resp: 218490

Ion Ratio Lower Upper

42 100

72 43.6 35.0 52.4

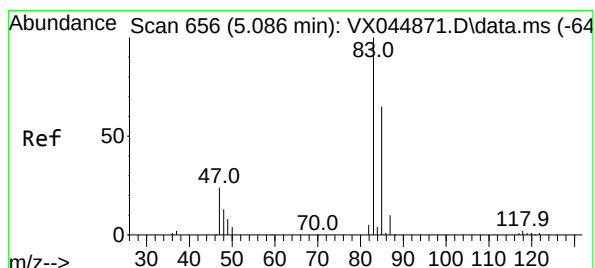
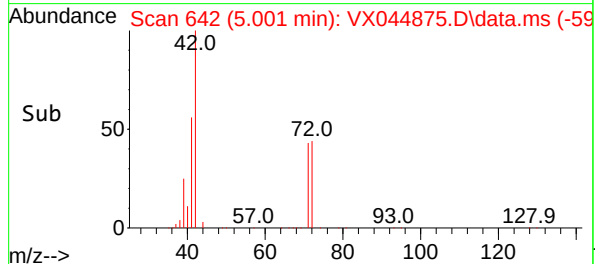
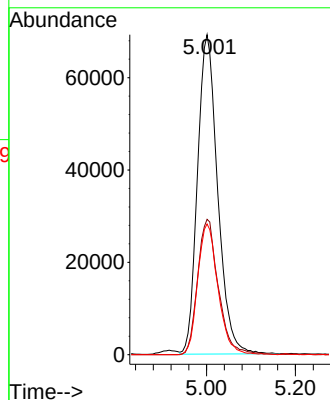
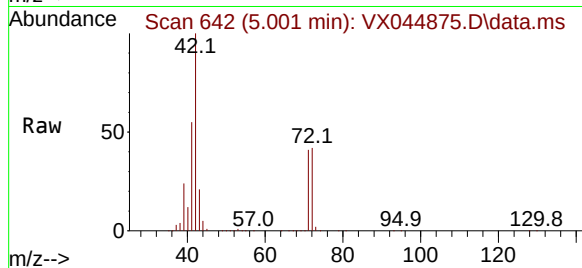
71 41.1 32.6 48.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#30

Chloroform

Concen: 48.393 ug/l

RT: 5.086 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX044875.D

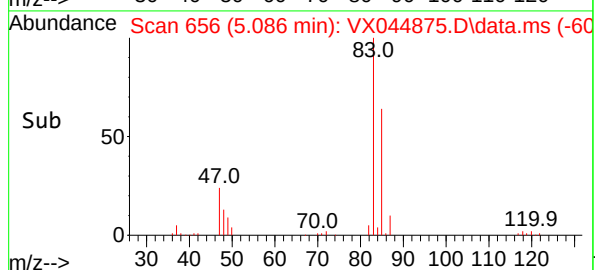
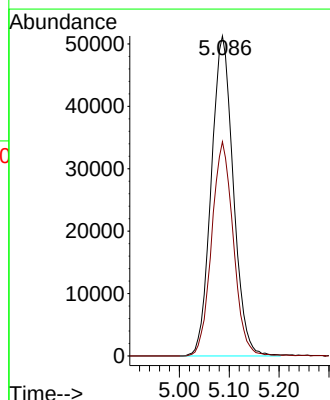
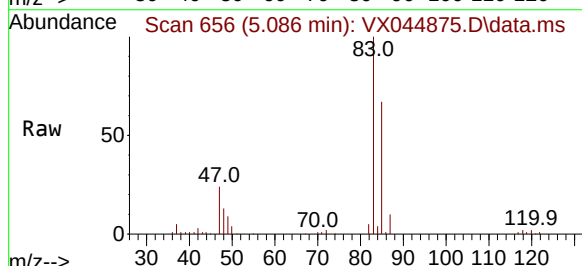
Acq: 10 Feb 2025 13:15

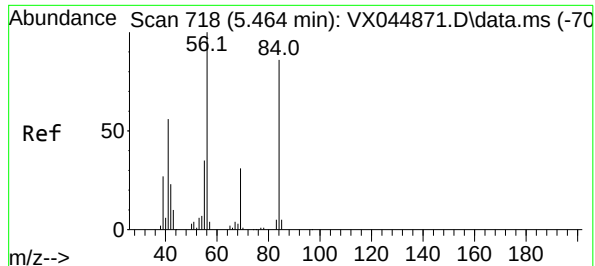
Tgt Ion: 83 Resp: 157312

Ion Ratio Lower Upper

83 100

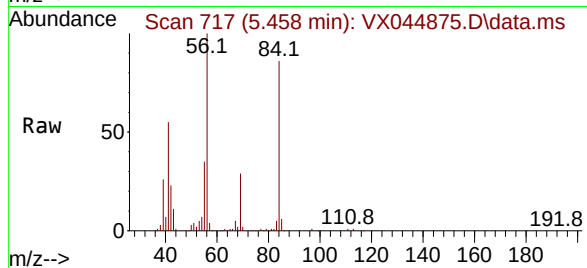
85 66.9 52.1 78.1





#31
Cyclohexane
Concen: 49.211 ug/l
RT: 5.458 min Scan# 718
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

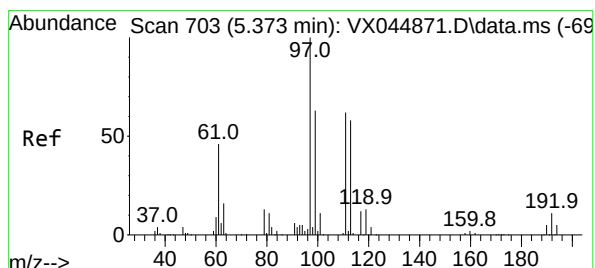
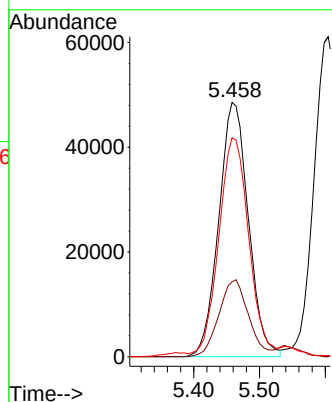
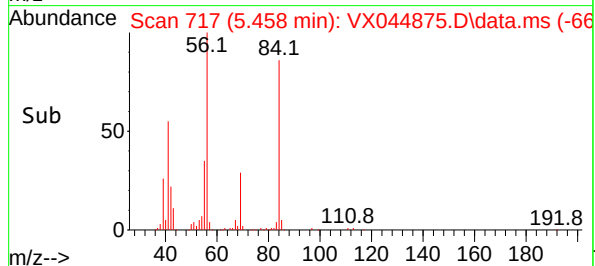
Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025



Tgt Ion: 56 Resp: 15207
Ion Ratio Lower Upper
56 100
69 29.4 24.4 36.6
84 84.6 69.0 103.6

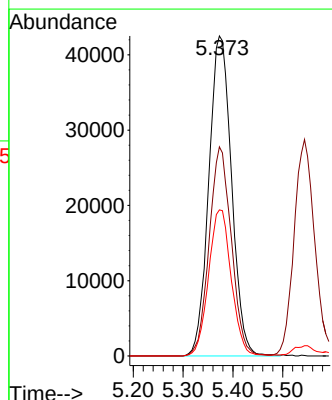
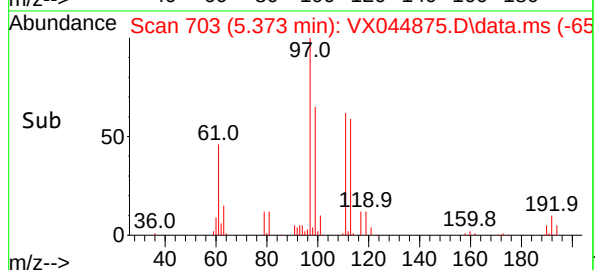
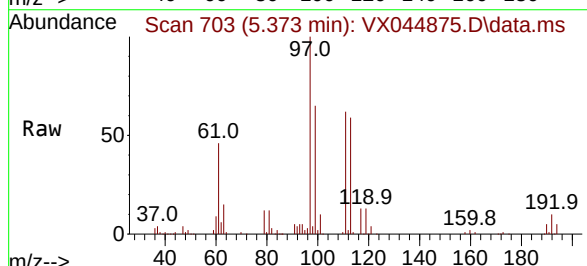
Manual Integrations
APPROVED

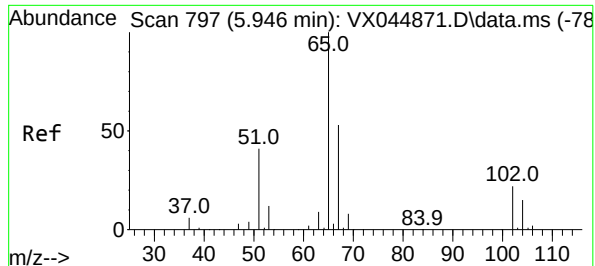
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#32
1,1,1-Trichloroethane
Concen: 48.825 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 97 Resp: 134626
Ion Ratio Lower Upper
97 100
99 63.8 51.0 76.6
61 45.7 36.6 55.0





#33

1,2-Dichloroethane-d4

Concen: 48.061 ug/l

RT: 5.946 min Scan# 797

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX021025

Tgt Ion: 65 Resp: 9563

Ion Ratio Lower Upper

65 100

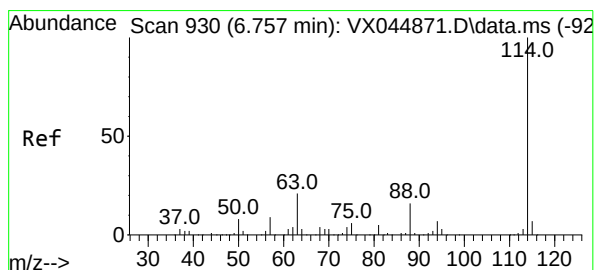
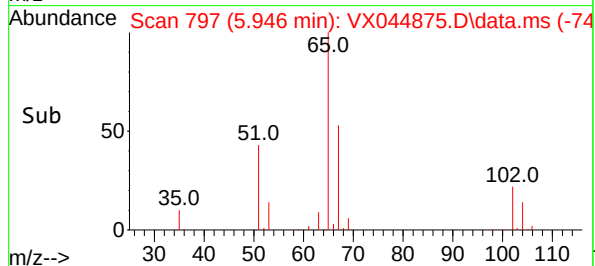
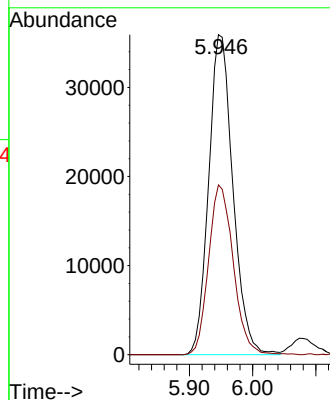
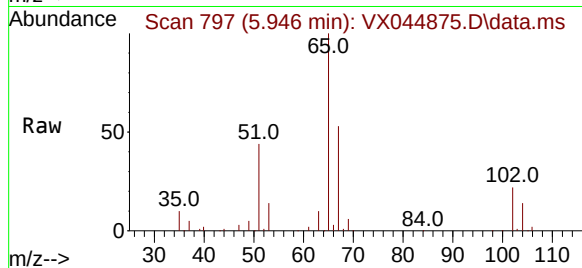
67 54.0 0.0 108.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

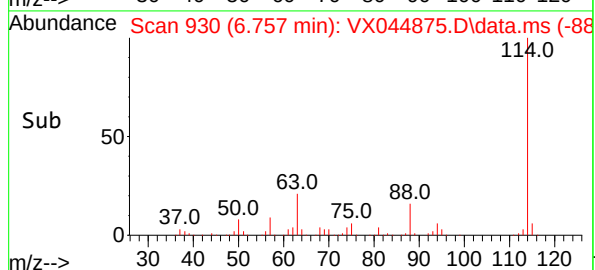
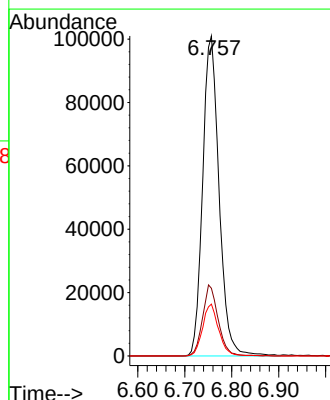
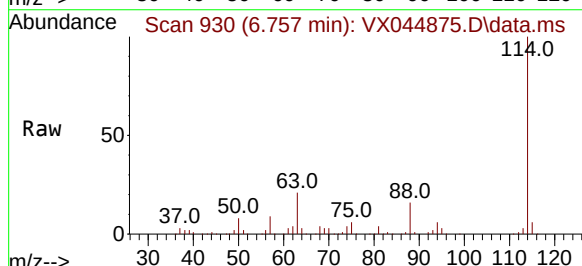
Tgt Ion:114 Resp: 245098

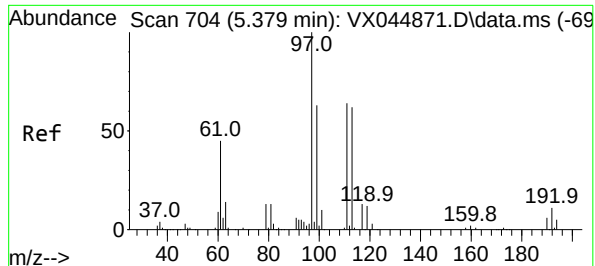
Ion Ratio Lower Upper

114 100

63 21.2 0.0 42.4

88 16.2 0.0 31.4





#35

Dibromofluoromethane

Concen: 49.173 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX021025

Tgt Ion:113 Resp: 78360

Ion Ratio Lower Upper

113 100

111 104.4 83.5 125.3

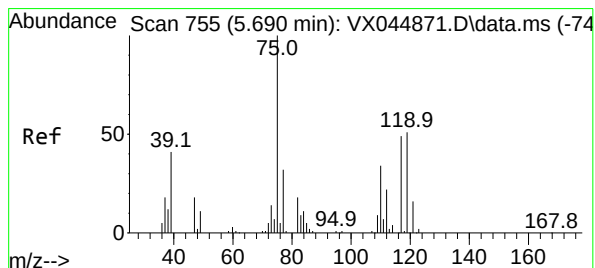
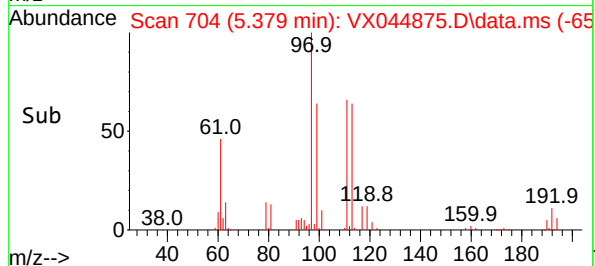
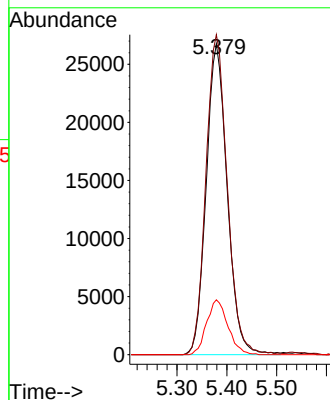
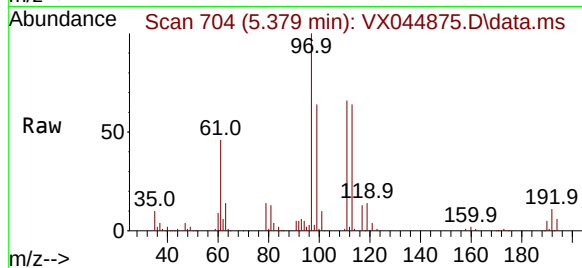
192 17.9 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#36

1,1-Dichloropropene

Concen: 48.702 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

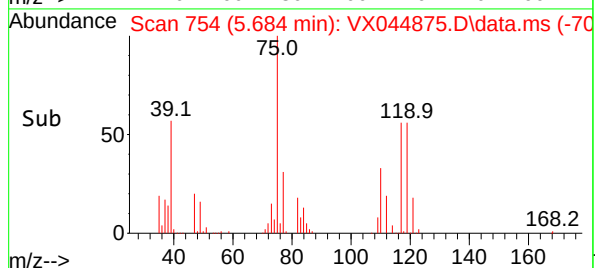
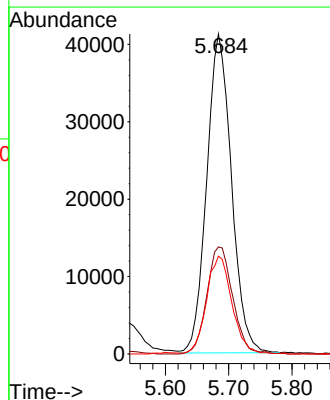
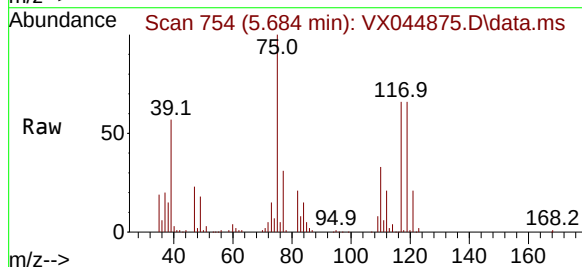
Tgt Ion: 75 Resp: 111968

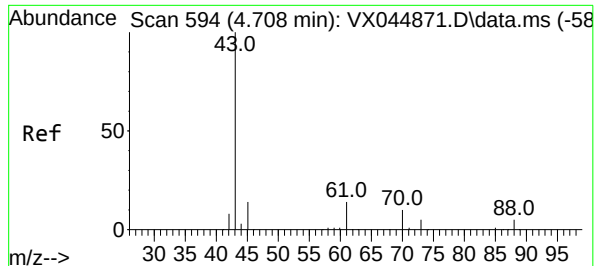
Ion Ratio Lower Upper

75 100

110 35.0 17.2 51.6

77 31.6 24.6 37.0





#37

Ethyl Acetate

Concen: 49.300 ug/l

RT: 4.708 min Scan# 594

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX021025

Tgt Ion: 43 Resp: 12607

Ion Ratio Lower Upper

43 100

61 14.3 11.0 16.4

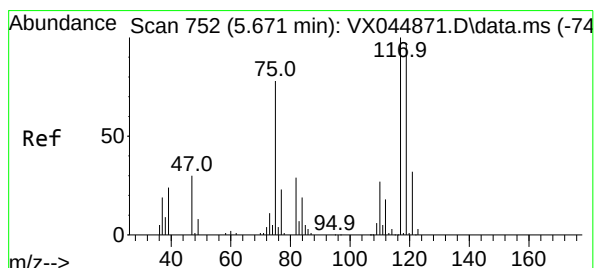
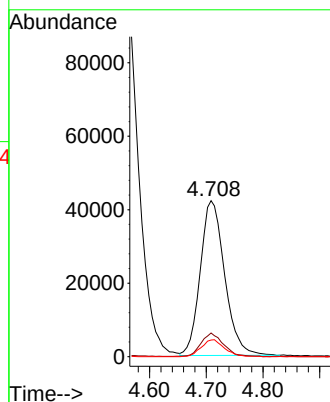
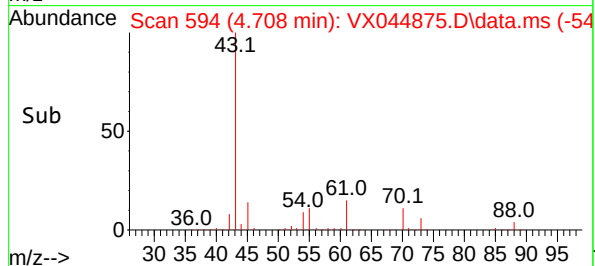
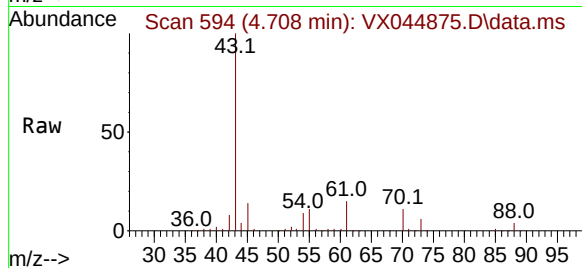
70 10.4 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#38

Carbon Tetrachloride

Concen: 49.083 ug/l

RT: 5.672 min Scan# 752

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

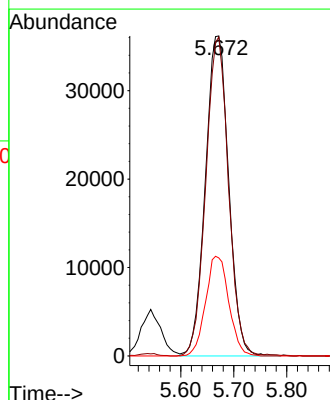
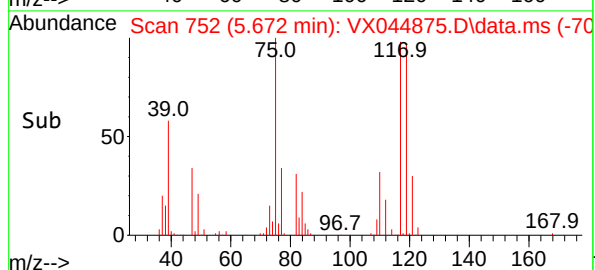
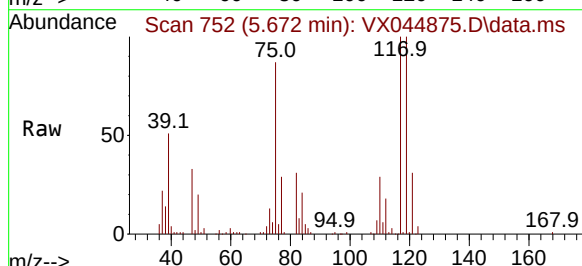
Tgt Ion:117 Resp: 110581

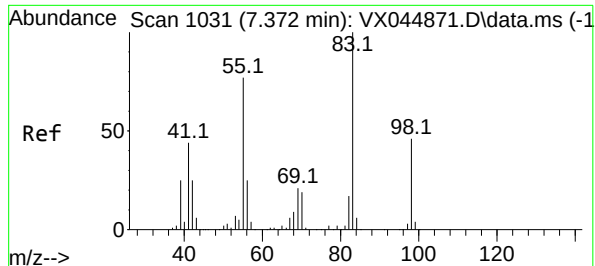
Ion Ratio Lower Upper

117 100

119 99.5 77.5 116.3

121 30.6 25.6 38.4





#39

Methylcyclohexane

Concen: 53.254 ug/l

RT: 7.372 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX021025

Tgt Ion: 83 Resp: 158289

Ion Ratio Lower Upper

83 100

55 76.8 61.3 91.9

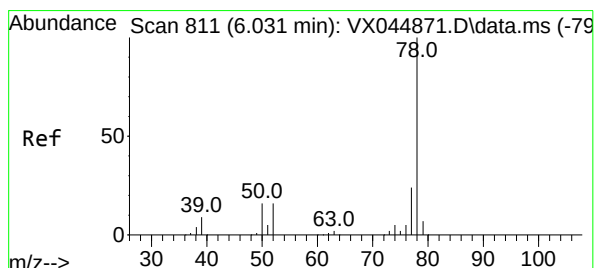
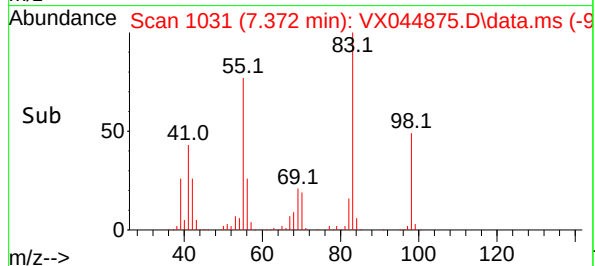
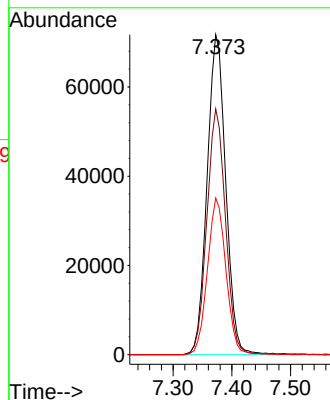
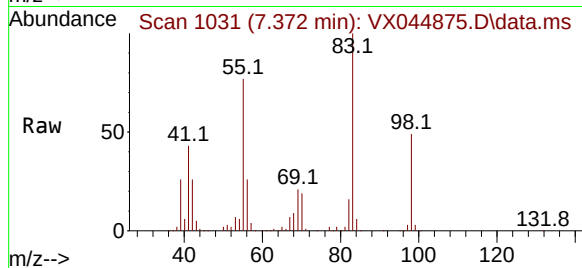
98 49.0 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#40

Benzene

Concen: 49.919 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX044875.D

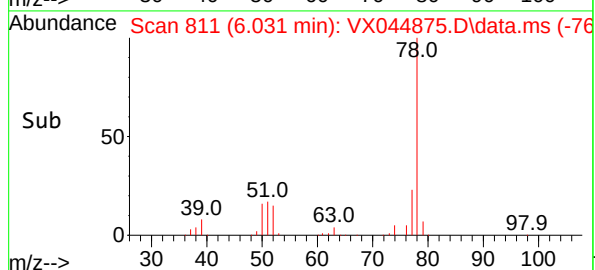
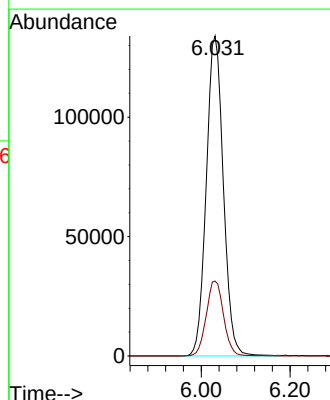
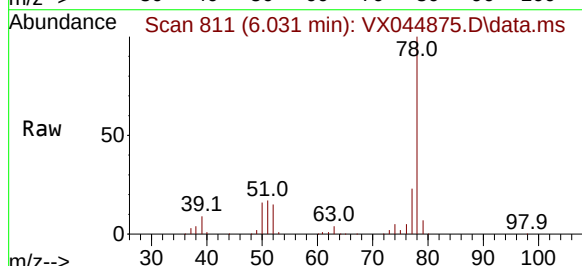
Acq: 10 Feb 2025 13:15

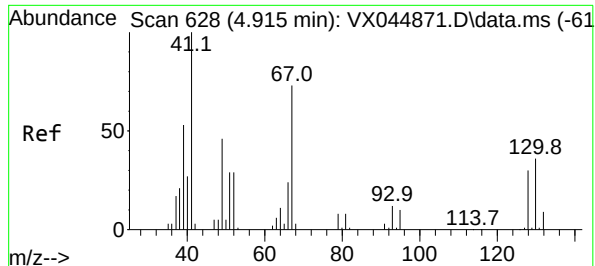
Tgt Ion: 78 Resp: 358365

Ion Ratio Lower Upper

78 100

77 23.4 19.0 28.6





#41

Methacrylonitrile

Concen: 53.741 ug/l

RT: 4.910 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX021025

Tgt Ion: 41 Resp: 7355

Ion Ratio Lower Upper

41 100

39 54.1 43.1 64.7

67 71.9 57.0 85.6

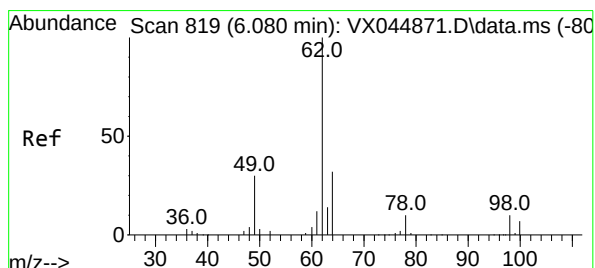
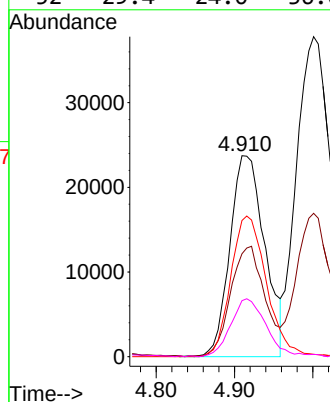
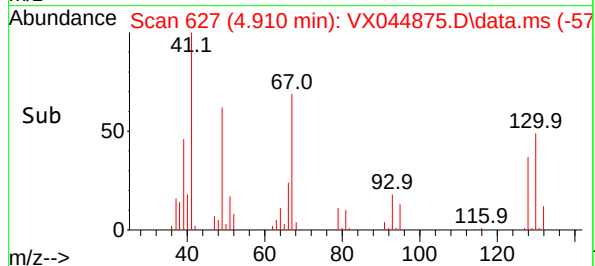
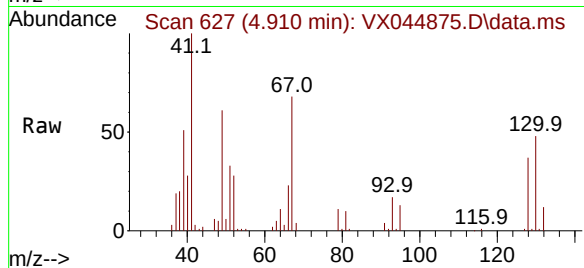
52 29.4 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#42

1,2-Dichloroethane

Concen: 50.410 ug/l

RT: 6.080 min Scan# 819

Delta R.T. 0.000 min

Lab File: VX044875.D

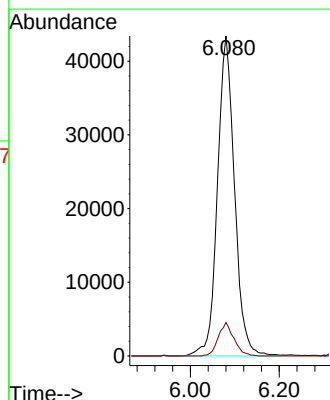
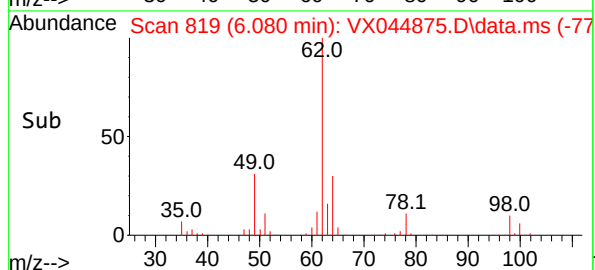
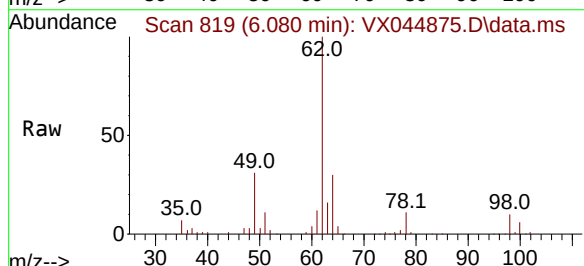
Acq: 10 Feb 2025 13:15

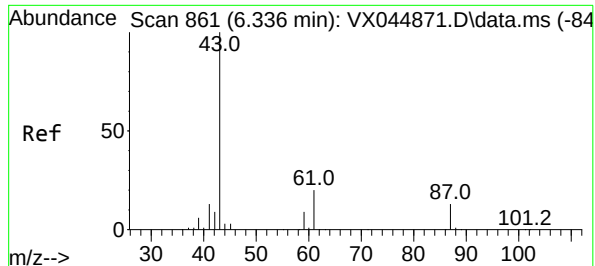
Tgt Ion: 62 Resp: 115339

Ion Ratio Lower Upper

62 100

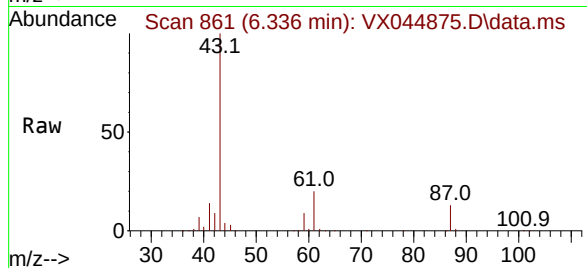
98 9.6 0.0 19.4





#43
Isopropyl Acetate
Concen: 51.798 ug/l
RT: 6.336 min Scan# 861
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

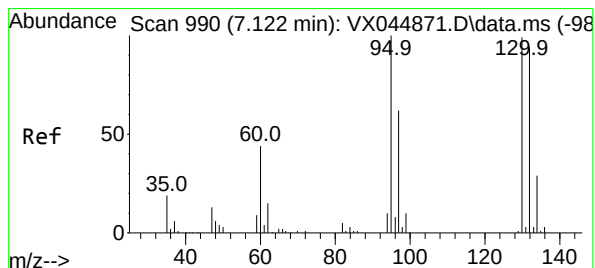
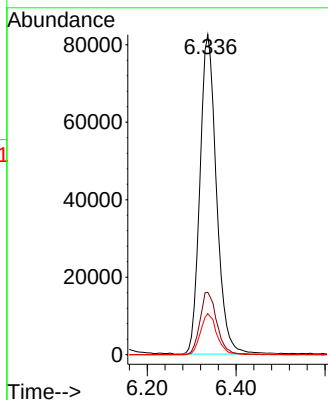
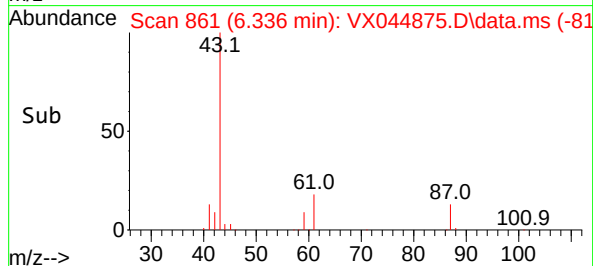
Instrument :
MSVOA_X
ClientSampleId :
ICVX021025



Tgt Ion: 43 Resp: 21390
Ion Ratio Lower Upper
43 100
61 19.9 15.8 23.8
87 12.6 10.0 15.0

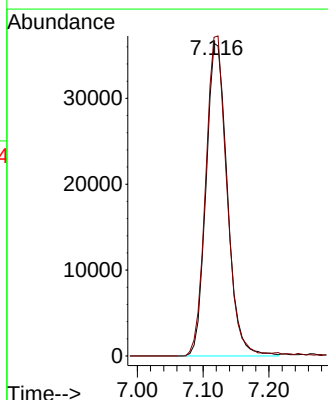
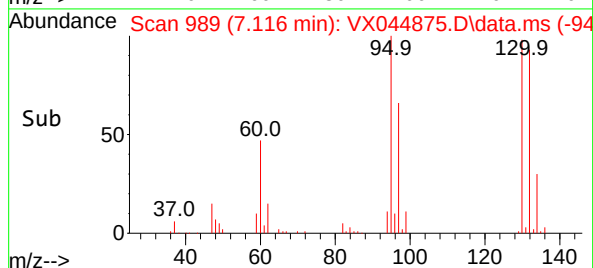
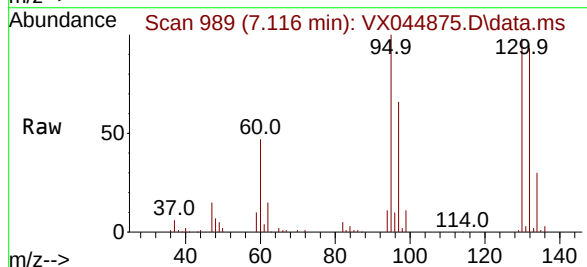
Manual Integrations
APPROVED

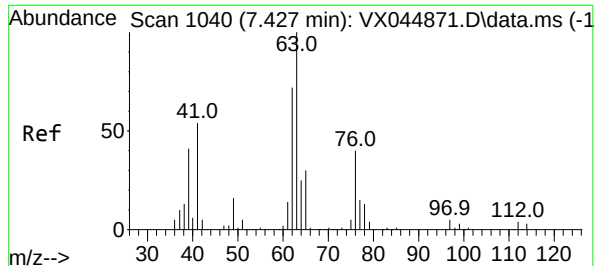
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#44
Trichloroethene
Concen: 49.917 ug/l
RT: 7.116 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:130 Resp: 81911
Ion Ratio Lower Upper
130 100
95 102.0 0.0 202.4





#45

1,2-Dichloropropane

Concen: 50.387 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX021025

Tgt Ion: 63 Resp: 89992

Ion Ratio Lower Upper

63 100

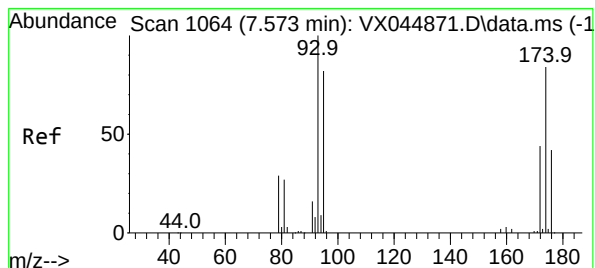
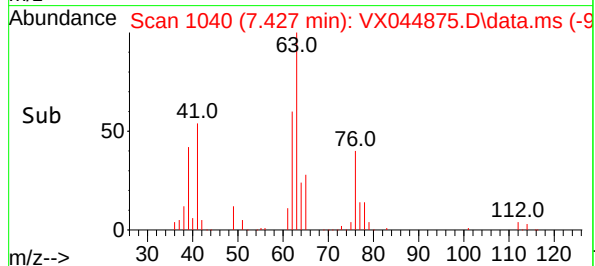
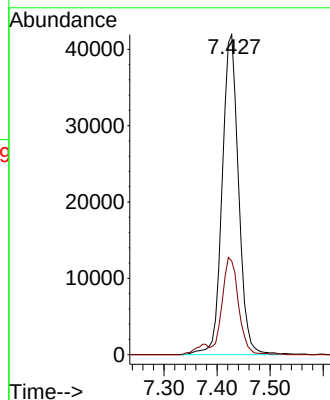
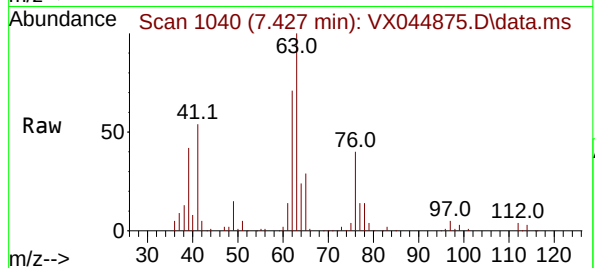
65 29.3 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#46

Dibromomethane

Concen: 49.540 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. 0.006 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

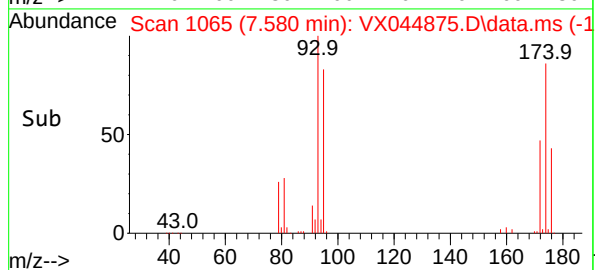
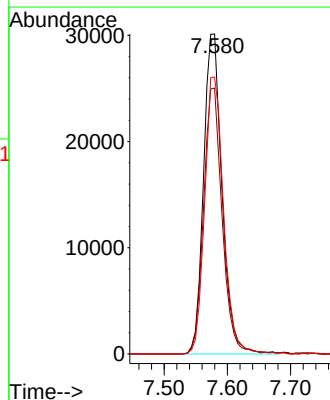
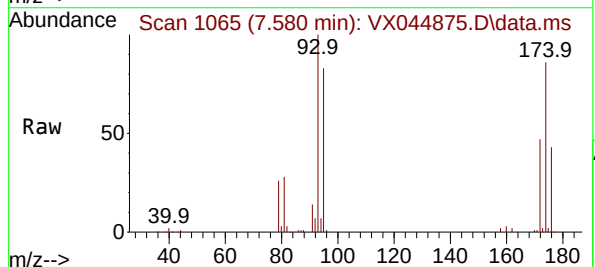
Tgt Ion: 93 Resp: 61360

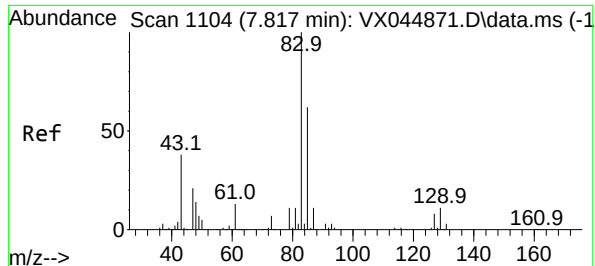
Ion Ratio Lower Upper

93 100

95 83.2 66.2 99.4

174 88.6 69.9 104.9





#47

Bromodichloromethane

Concen: 50.980 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVVX021025

Tgt Ion: 83 Resp: 12226

Ion Ratio Lower Upper

83 100

85 63.3 50.0 75.0

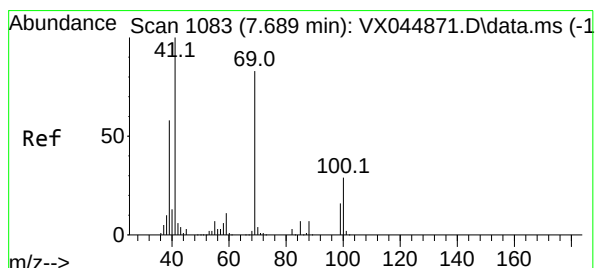
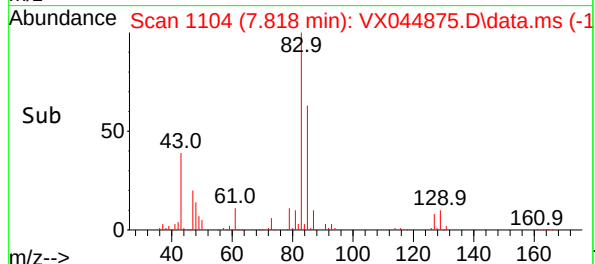
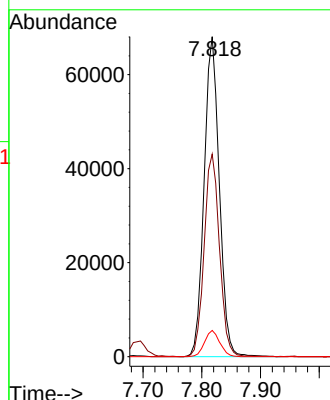
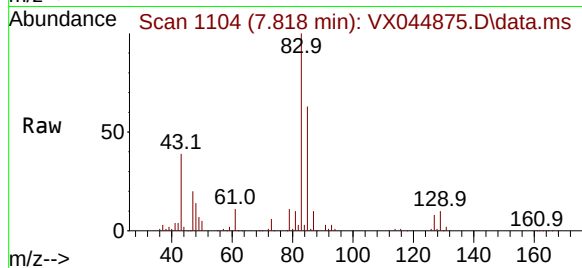
127 8.2 6.4 9.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#48

Methyl methacrylate

Concen: 52.848 ug/l

RT: 7.690 min Scan# 1083

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

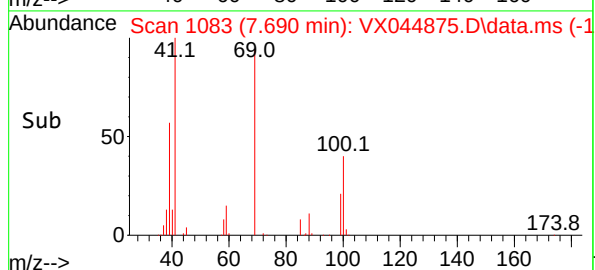
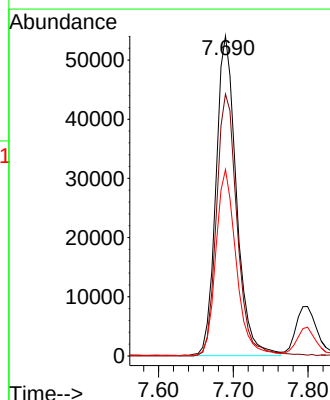
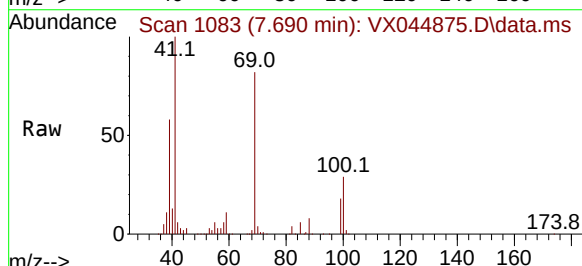
Tgt Ion: 41 Resp: 102900

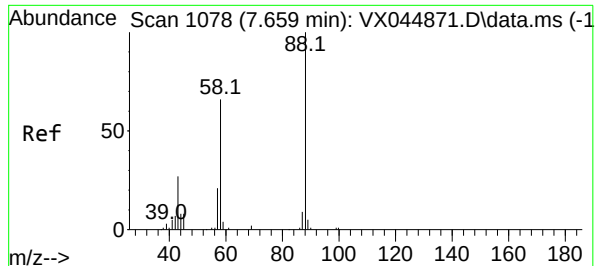
Ion Ratio Lower Upper

41 100

69 83.2 65.8 98.8

39 57.8 46.4 69.6





#49

1,4-Dioxane

Concen: 1021.138 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX021025

Tgt Ion: 88 Resp: 42658

Ion Ratio Lower Upper

88 100

43 32.2 26.6 39.8

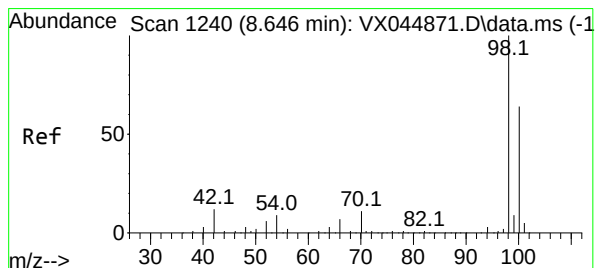
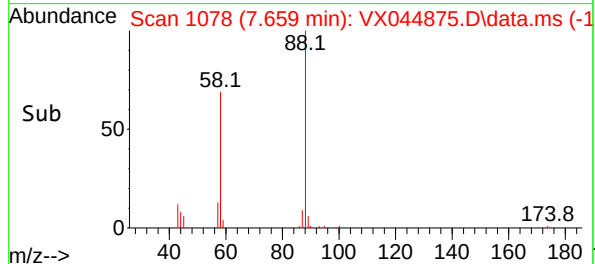
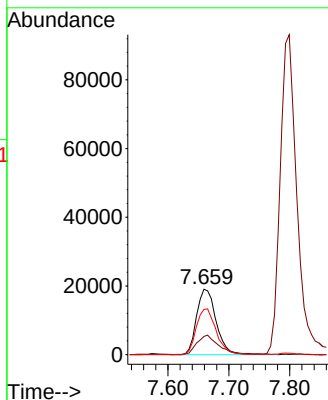
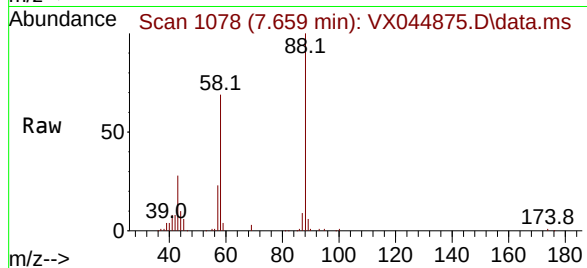
58 71.2 55.9 83.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#50

Toluene-d8

Concen: 49.649 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044875.D

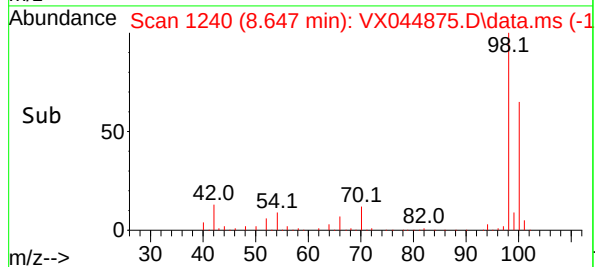
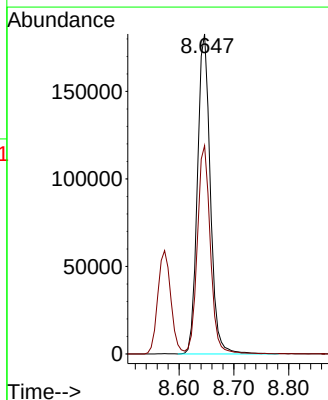
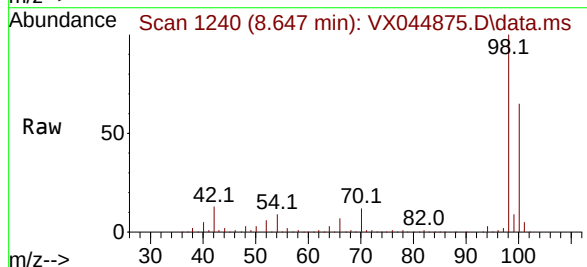
Acq: 10 Feb 2025 13:15

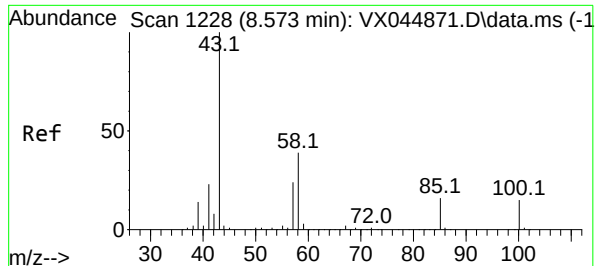
Tgt Ion: 98 Resp: 299178

Ion Ratio Lower Upper

98 100

100 65.4 52.7 79.1





#51

4-Methyl-2-Pentanone

Concen: 265.112 ug/l

RT: 8.573 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVVX021025

Tgt Ion: 43 Resp: 665564

Ion Ratio Lower Upper

43 100

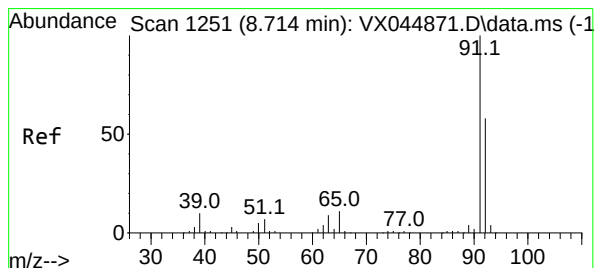
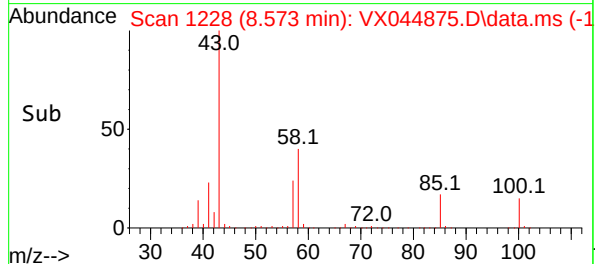
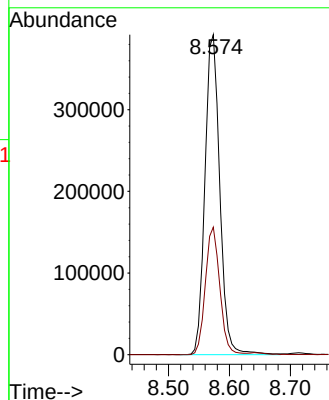
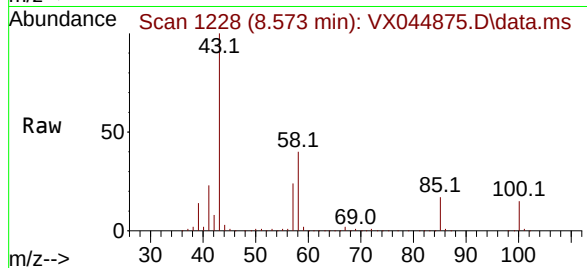
58 38.7 30.8 46.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#52

Toluene

Concen: 50.680 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. 0.000 min

Lab File: VX044875.D

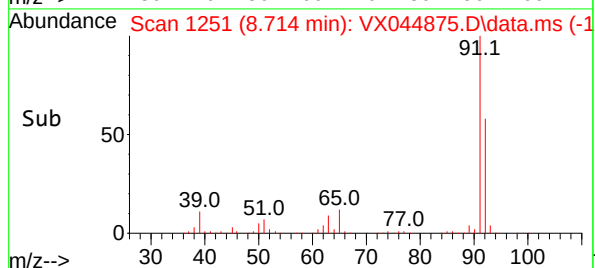
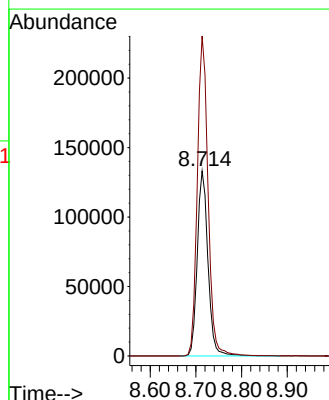
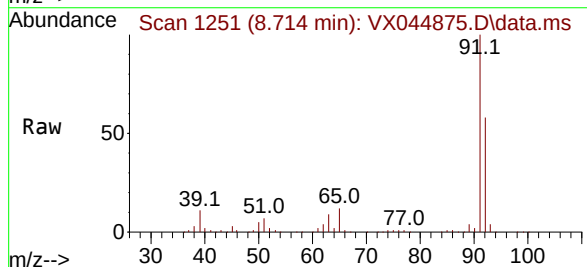
Acq: 10 Feb 2025 13:15

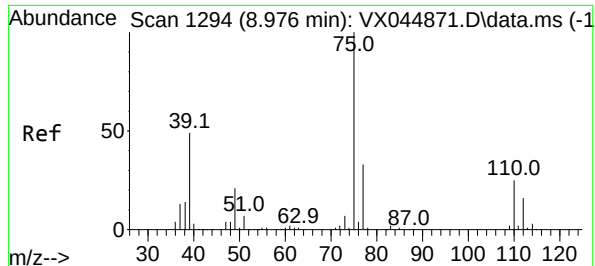
Tgt Ion: 92 Resp: 216682

Ion Ratio Lower Upper

92 100

91 173.4 137.4 206.2





#53

t-1,3-Dichloropropene

Concen: 53.731 ug/l

RT: 8.976 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVVX021025

Tgt Ion: 75 Resp: 130409

Ion Ratio Lower Upper

75 100

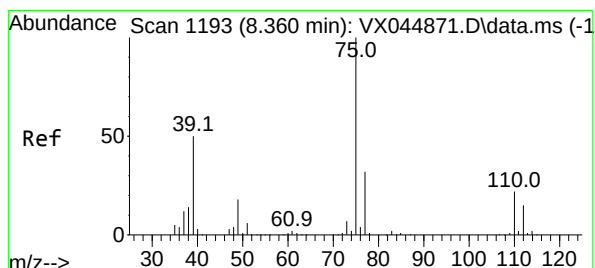
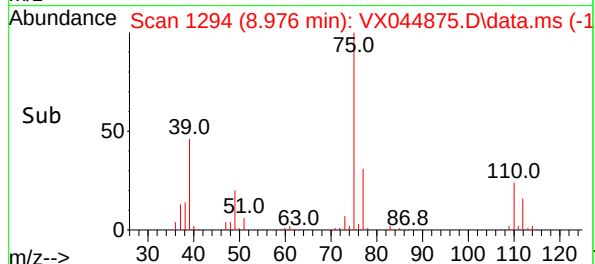
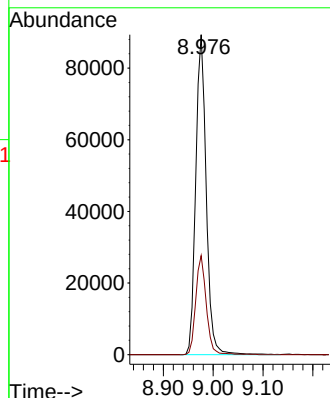
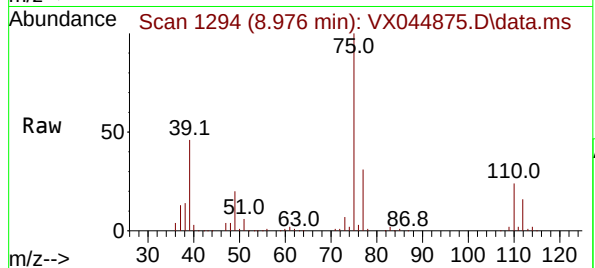
77 31.0 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#54

cis-1,3-Dichloropropene

Concen: 52.986 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

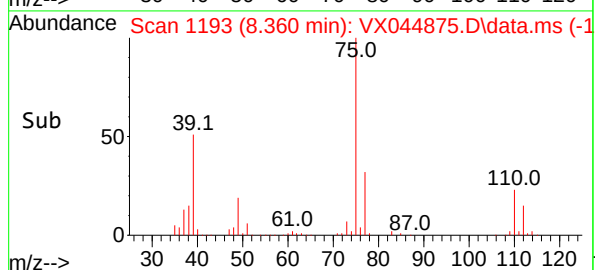
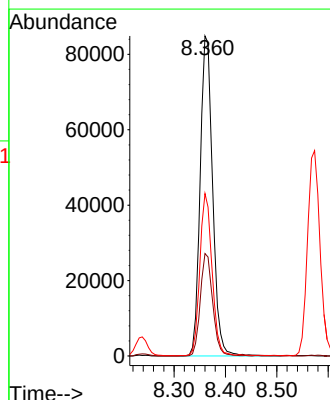
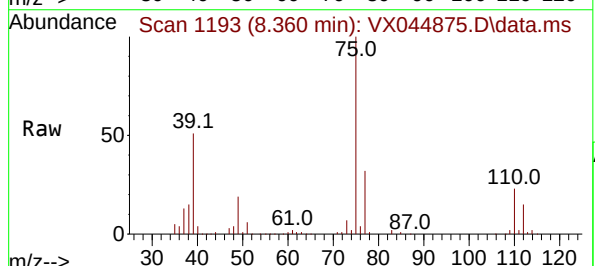
Tgt Ion: 75 Resp: 143379

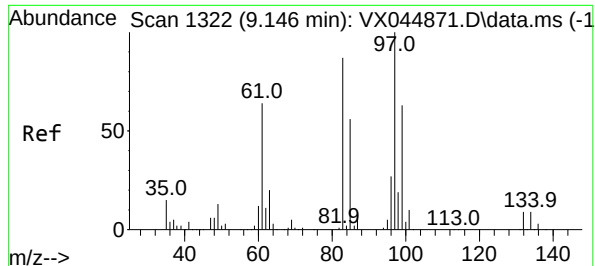
Ion Ratio Lower Upper

75 100

77 32.0 25.3 37.9

39 50.6 40.0 60.0





#55

1,1,2-Trichloroethane

Concen: 50.811 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVVX021025

Tgt Ion: 97 Resp: 83510

Ion Ratio Lower Upper

97 100

83 87.1 69.8 104.6

85 56.6 44.8 67.2

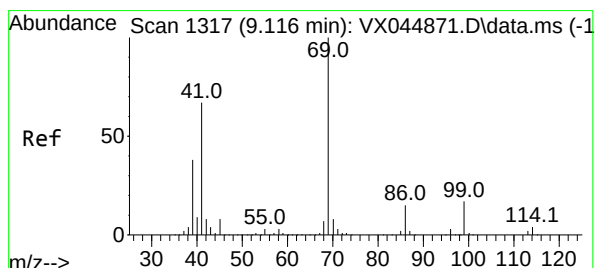
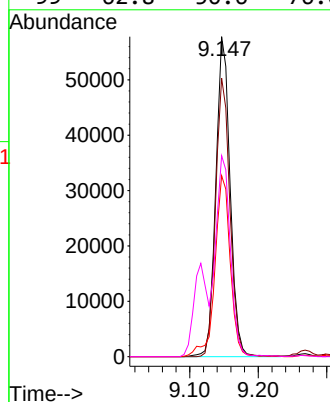
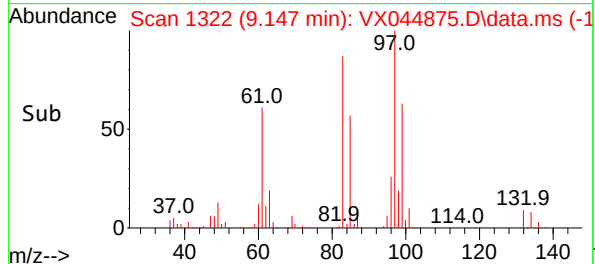
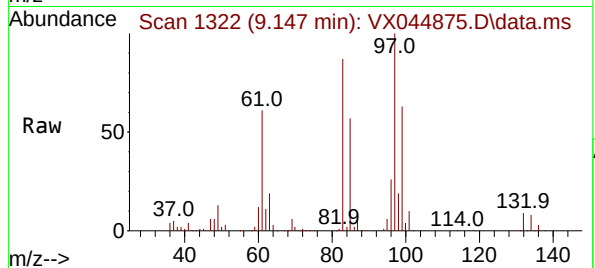
99 62.8 50.6 76.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#56

Ethyl methacrylate

Concen: 54.068 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

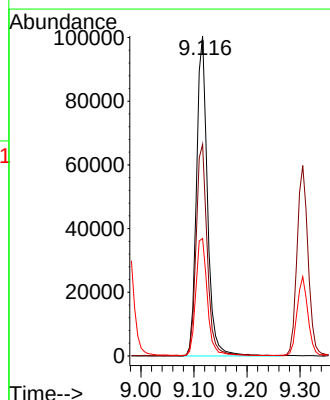
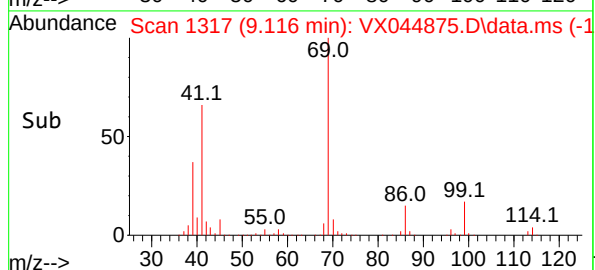
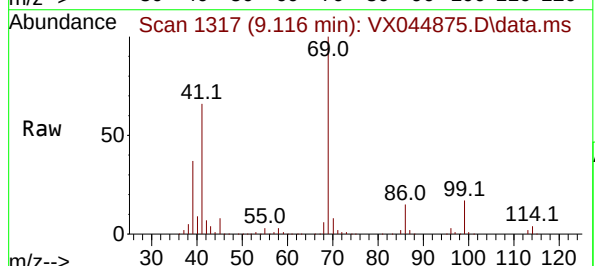
Tgt Ion: 69 Resp: 143524

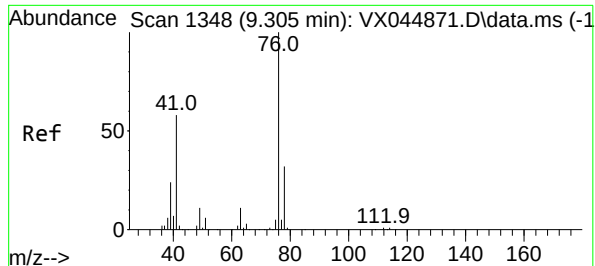
Ion Ratio Lower Upper

69 100

41 67.8 55.2 82.8

39 38.4 30.8 46.2





#57

1,3-Dichloropropane

Concen: 50.852 ug/l

RT: 9.305 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX021025

Tgt Ion: 76 Resp: 146230

Ion Ratio Lower Upper

76 100

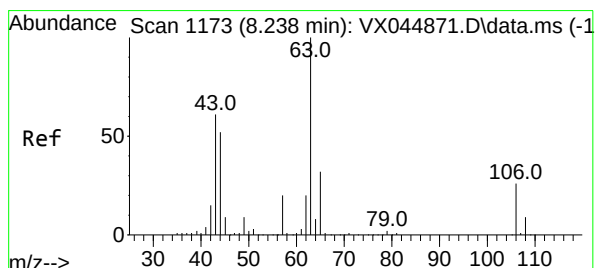
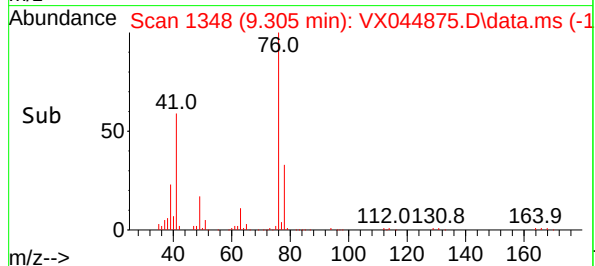
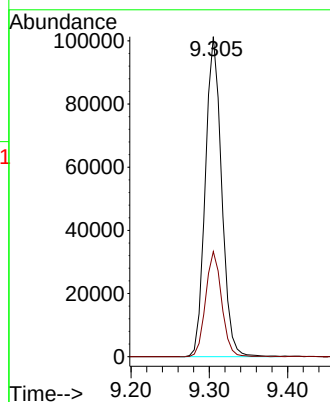
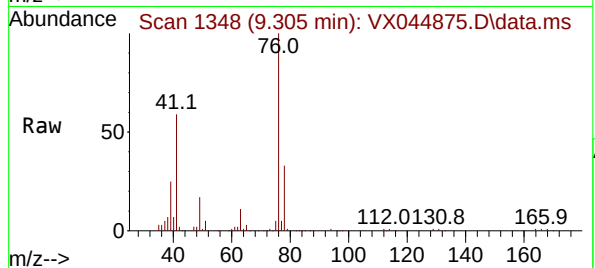
78 32.3 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#58

2-Chloroethyl Vinyl ether

Concen: 284.352 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX044875.D

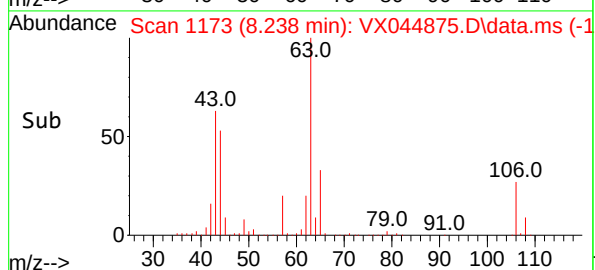
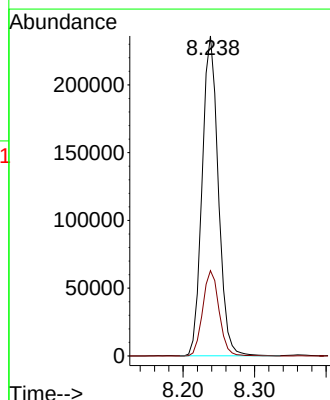
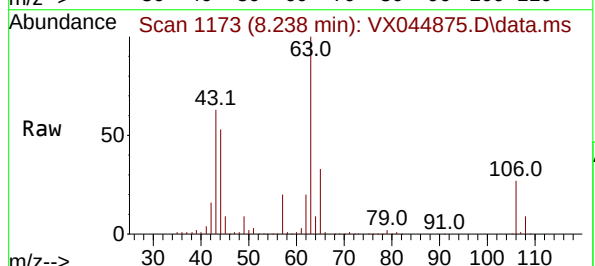
Acq: 10 Feb 2025 13:15

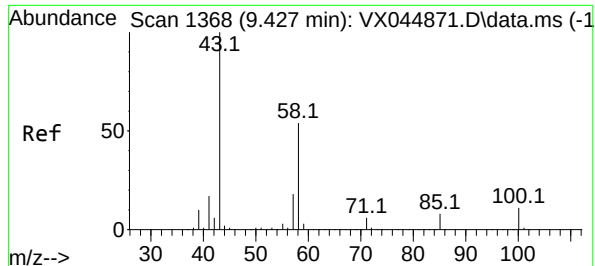
Tgt Ion: 63 Resp: 370622

Ion Ratio Lower Upper

63 100

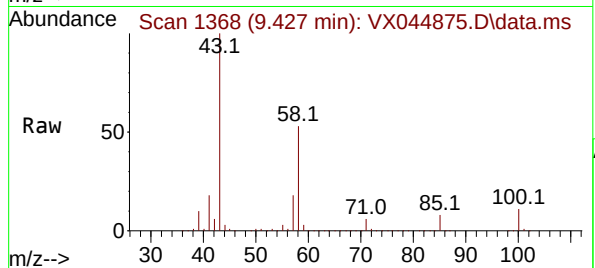
106 27.0 21.3 31.9





#59
2-Hexanone
Concen: 269.951 ug/l
RT: 9.427 min Scan# 1368
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

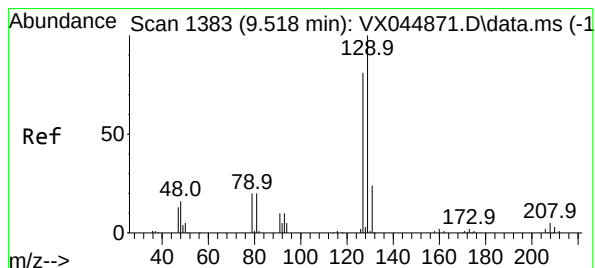
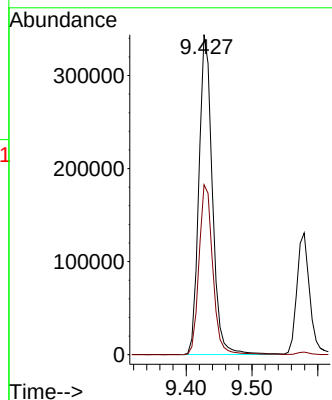
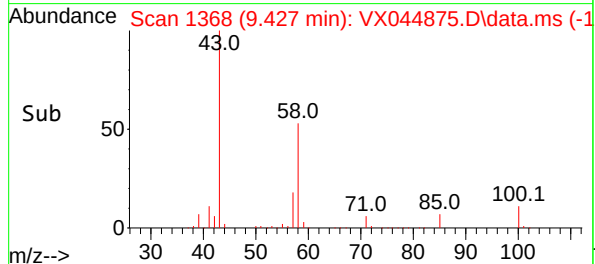
Instrument :
MSVOA_X
ClientSampleId :
ICVX021025



Tgt Ion: 43 Resp: 488298
Ion Ratio Lower Upper
43 100
58 54.5 27.5 82.4

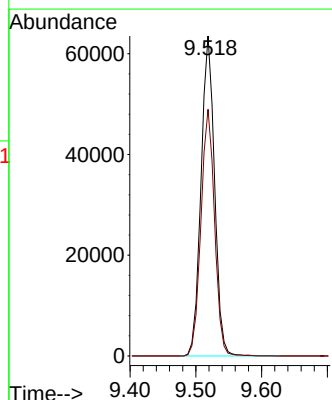
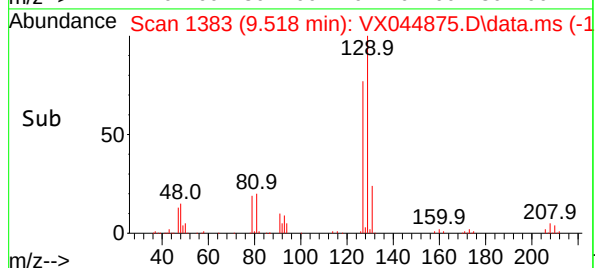
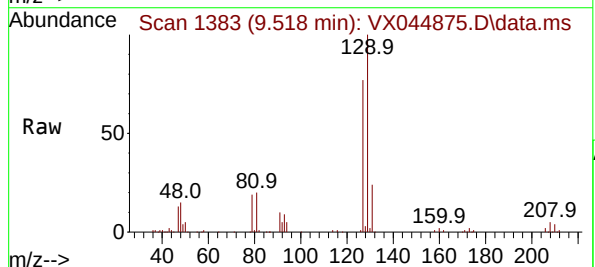
Manual Integrations
APPROVED

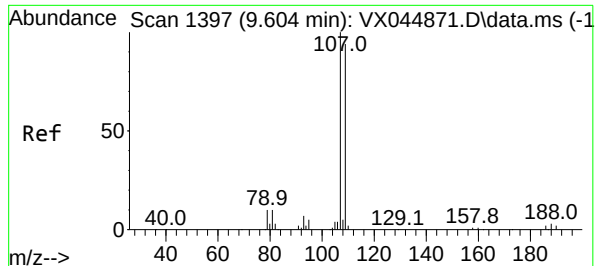
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#60
Dibromochloromethane
Concen: 51.673 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:129 Resp: 90826
Ion Ratio Lower Upper
129 100
127 77.5 39.1 117.3





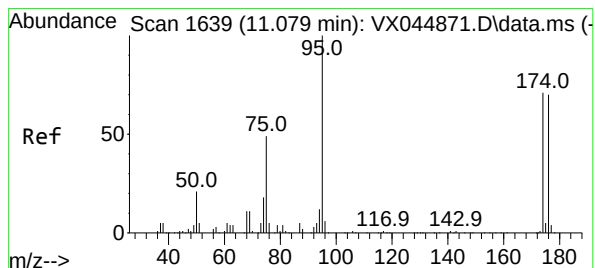
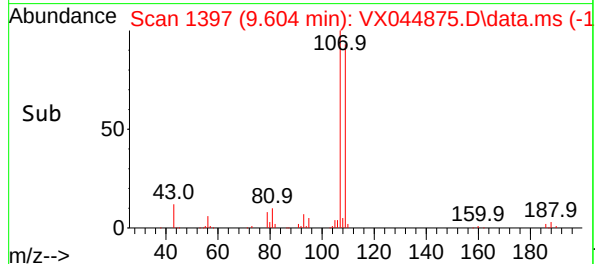
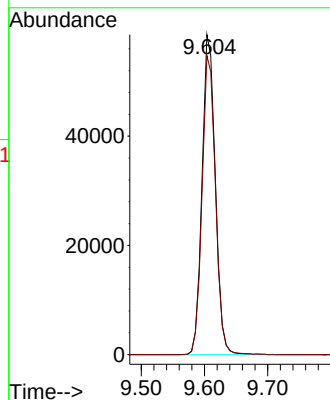
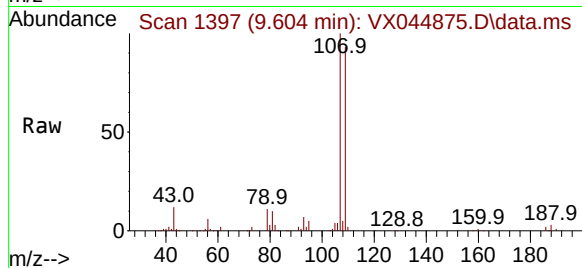
#61
1,2-Dibromoethane
Concen: 51.436 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVX021025

Tgt Ion:107 Resp: 8568
Ion Ratio Lower Upper
107 100
109 94.5 75.9 113.9

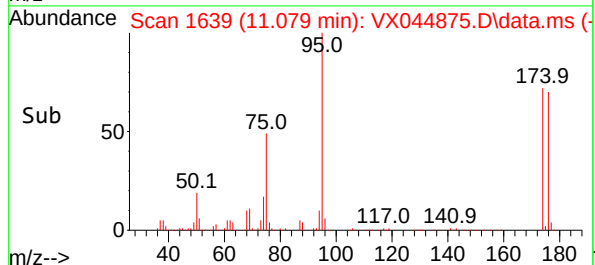
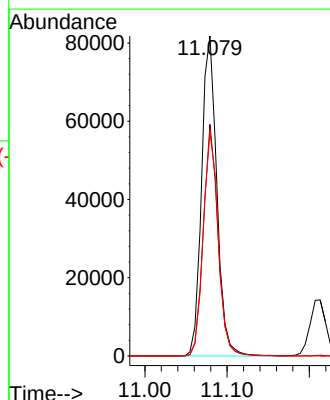
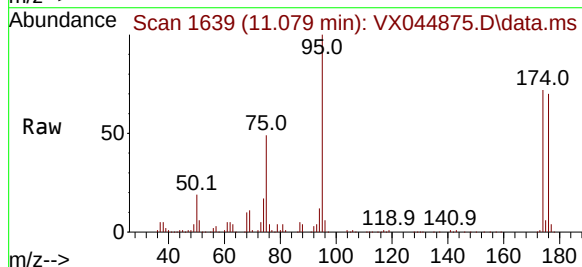
Manual Integrations
APPROVED

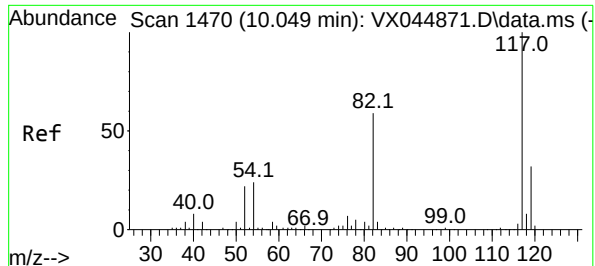
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#62
4-Bromofluorobenzene
Concen: 51.786 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

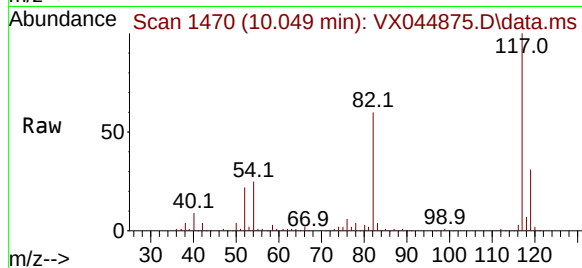
Tgt Ion: 95 Resp: 105201
Ion Ratio Lower Upper
95 100
174 69.8 0.0 142.6
176 68.9 0.0 141.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

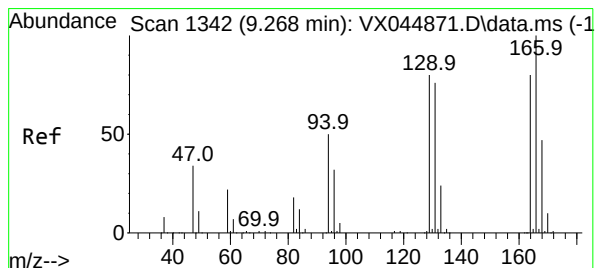
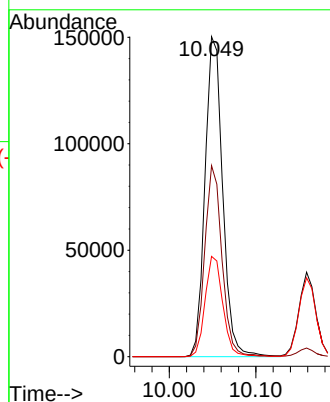
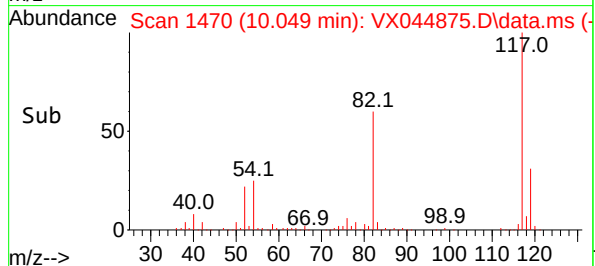
Instrument :
MSVOA_X
ClientSampleId :
ICVX021025



Tgt Ion:117 Resp: 213248
Ion Ratio Lower Upper
117 100
82 59.7 47.5 71.3
119 31.3 25.4 38.0

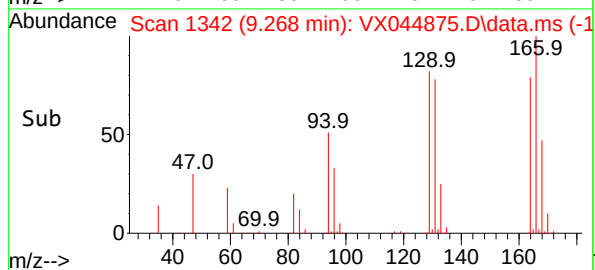
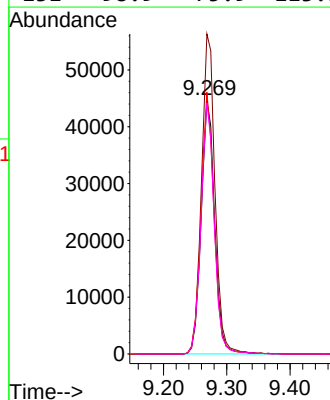
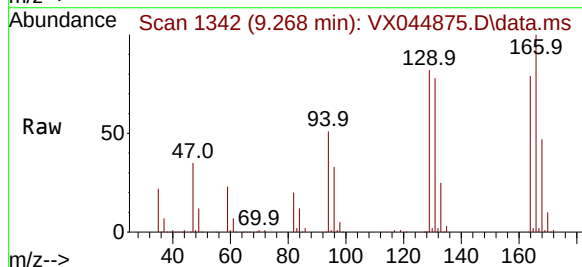
Manual Integrations
APPROVED

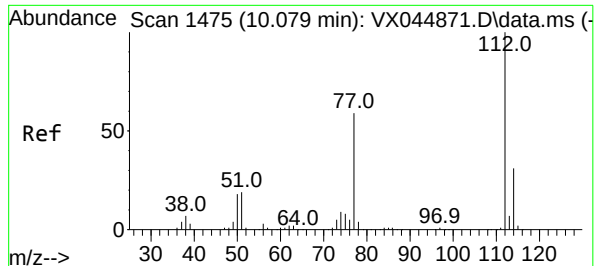
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#64
Tetrachloroethene
Concen: 49.424 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:164 Resp: 66468
Ion Ratio Lower Upper
164 100
166 126.1 100.4 150.6
129 103.1 79.9 119.9
131 98.9 75.9 113.9





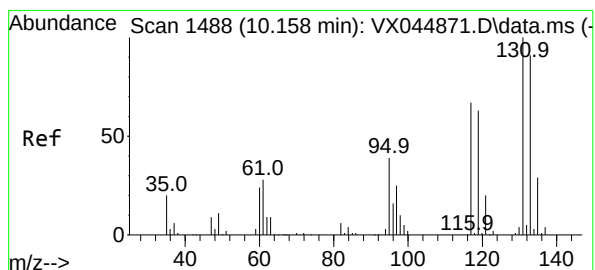
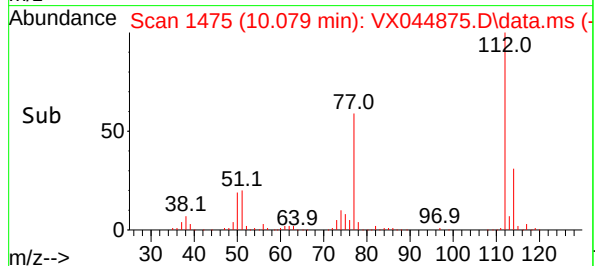
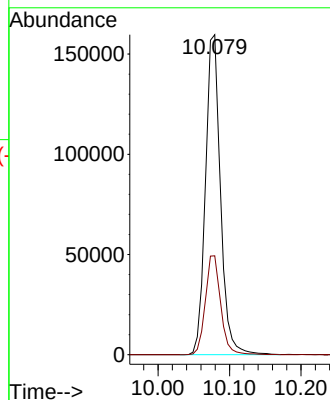
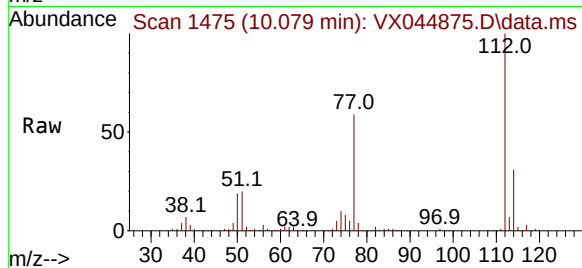
#65
Chlorobenzene
Concen: 50.952 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVX021025

Tgt Ion:112 Resp: 23337
Ion Ratio Lower Upper
112 100
114 30.9 25.0 37.6

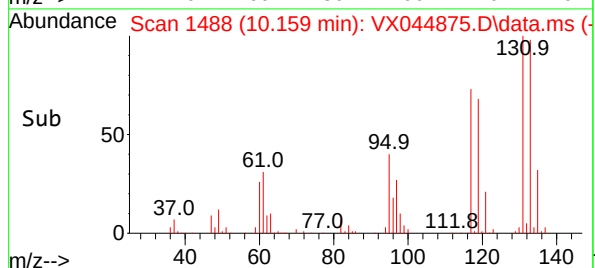
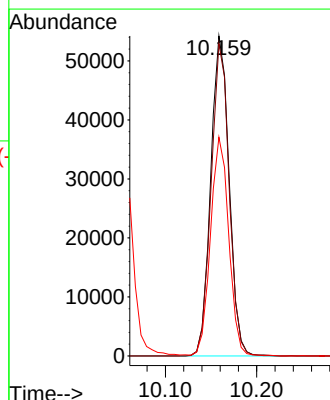
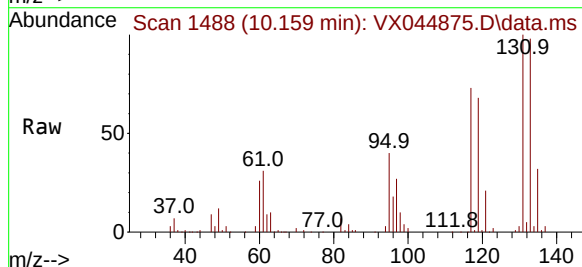
Manual Integrations
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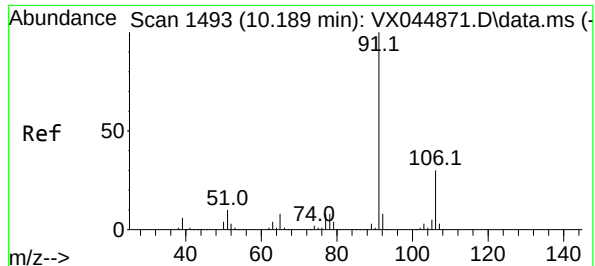
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 51.205 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:131 Resp: 75488
Ion Ratio Lower Upper
131 100
133 95.8 47.1 141.3
119 68.2 33.6 100.6





#67

Ethyl Benzene

Concen: 51.415 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVVX021025

Tgt Ion: 91 Resp: 41557

Ion Ratio Lower Upper

91 100

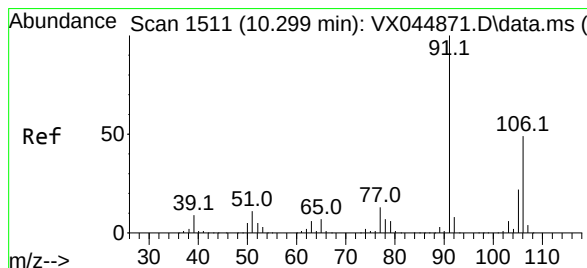
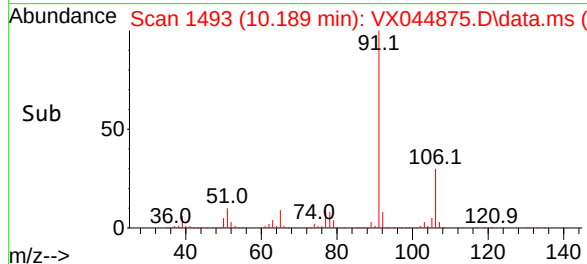
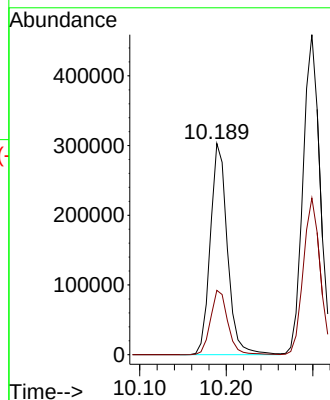
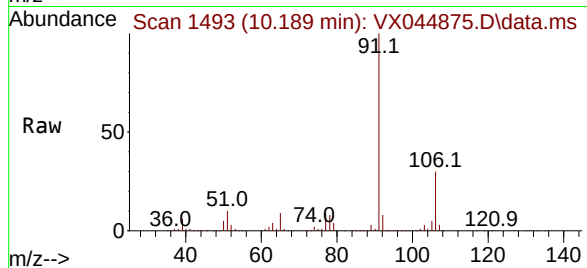
106 30.4 23.9 35.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#68

m/p-Xylenes

Concen: 104.282 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX044875.D

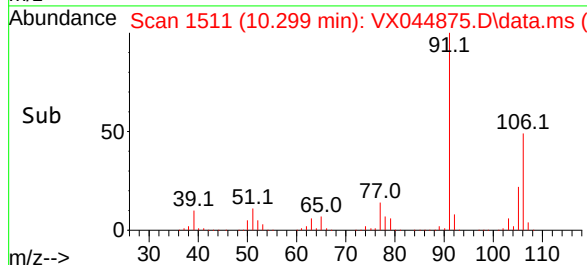
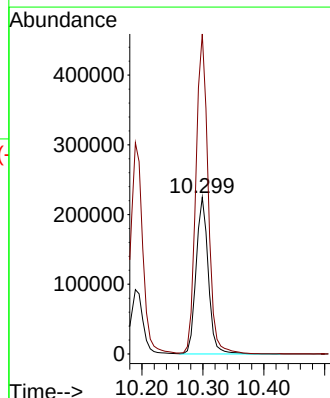
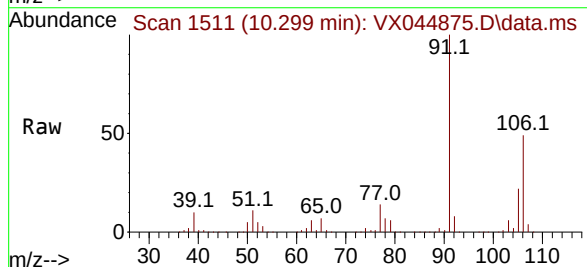
Acq: 10 Feb 2025 13:15

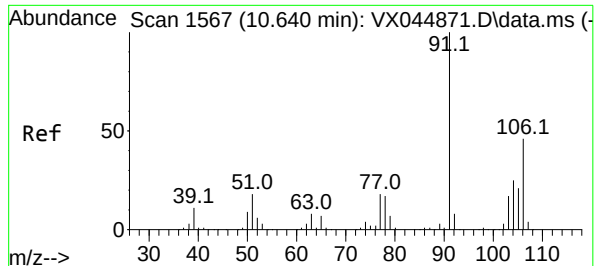
Tgt Ion:106 Resp: 310925

Ion Ratio Lower Upper

106 100

91 205.2 164.3 246.5





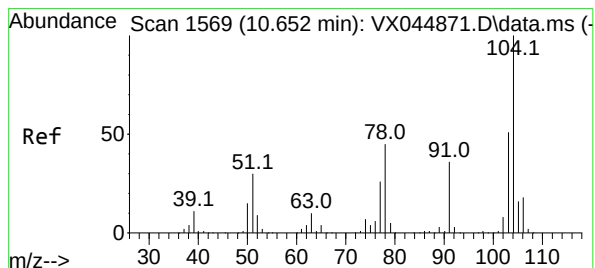
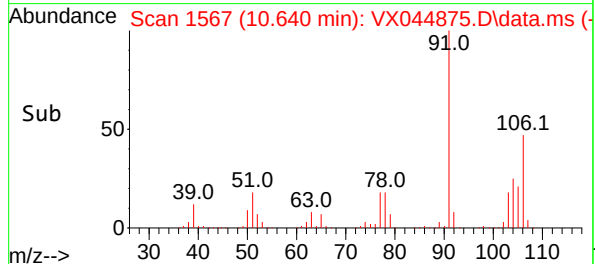
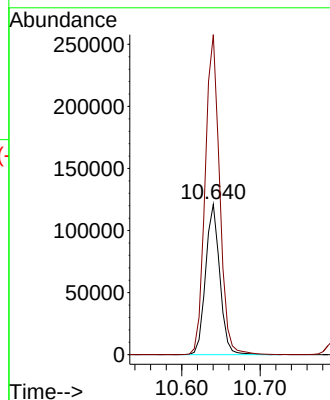
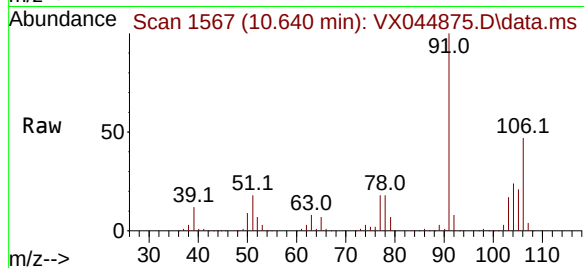
#69
o-Xylene
Concen: 50.804 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVX021025

Tgt Ion:106 Resp: 15199
Ion Ratio Lower Upper
106 100
91 217.1 108.5 325.5

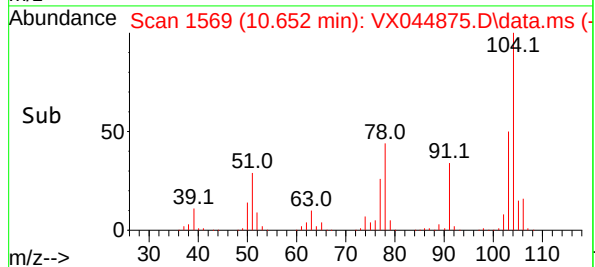
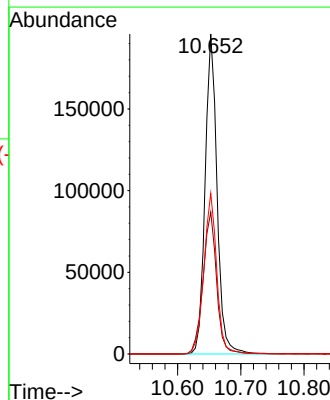
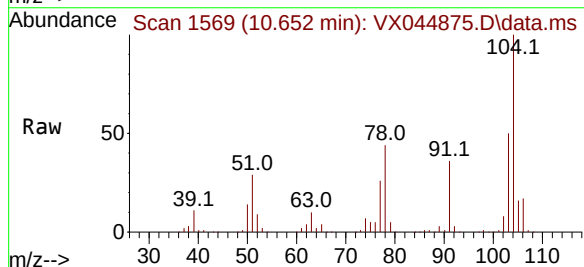
Manual Integrations
APPROVED

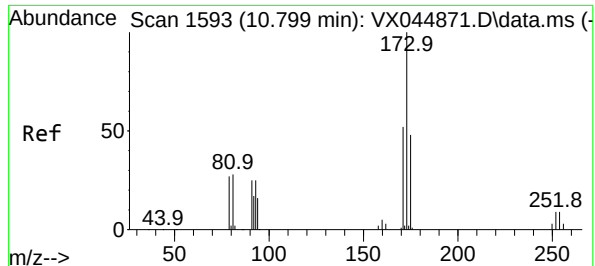
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#70
Styrene
Concen: 53.521 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

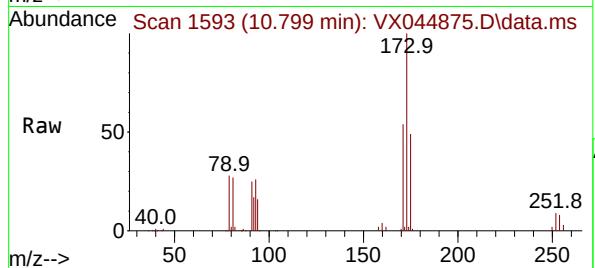
Tgt Ion:104 Resp: 257972
Ion Ratio Lower Upper
104 100
78 50.3 40.5 60.7
103 54.5 43.6 65.4





#71
Bromoform
Concen: 53.997 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

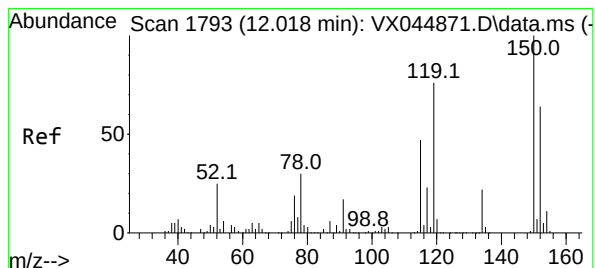
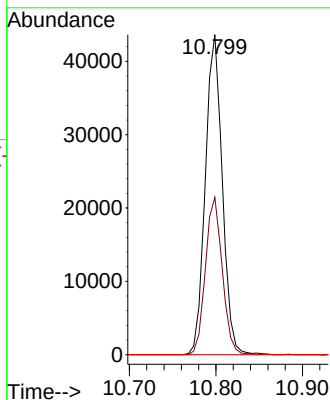
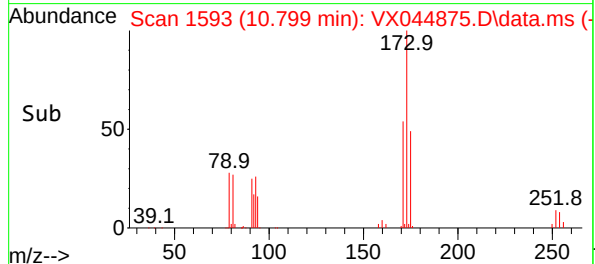
Instrument :
MSVOA_X
ClientSampleId :
ICVX021025



Tgt Ion:173 Resp: 59409
Ion Ratio Lower Upper
173 100
175 48.7 24.3 72.8
254 0.0 0.0 0.0

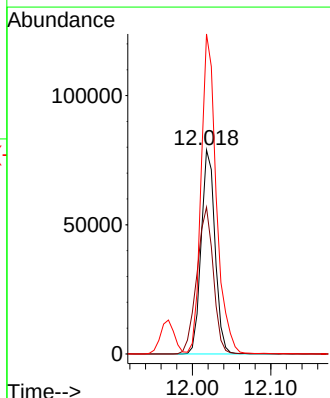
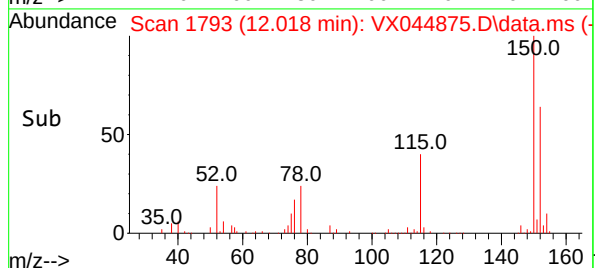
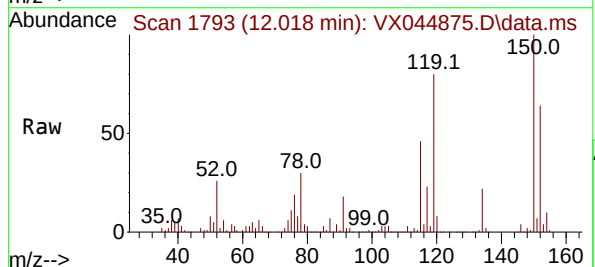
Manual Integrations
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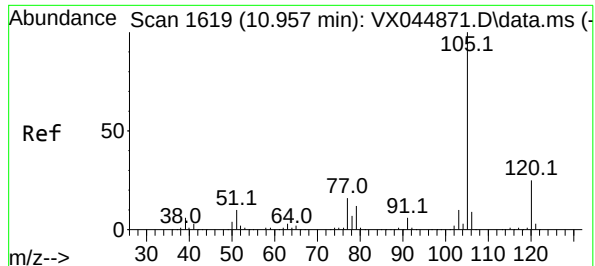
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

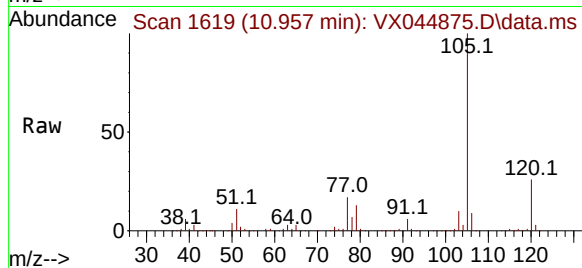
Tgt Ion:152 Resp: 97087
Ion Ratio Lower Upper
152 100
115 85.5 43.4 130.1
150 171.8 0.0 350.4





#73
Isopropylbenzene
Concen: 49.921 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

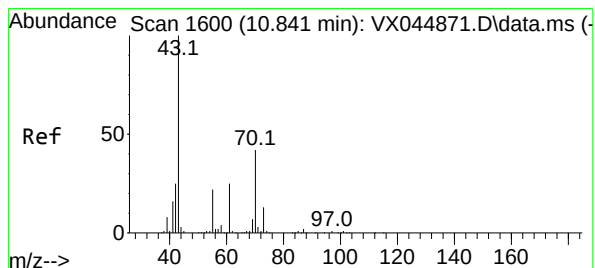
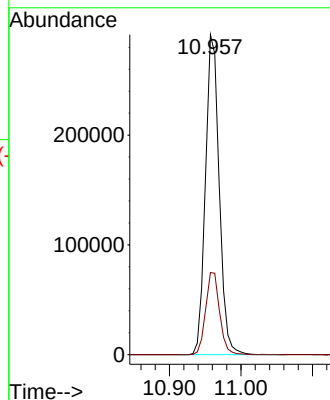
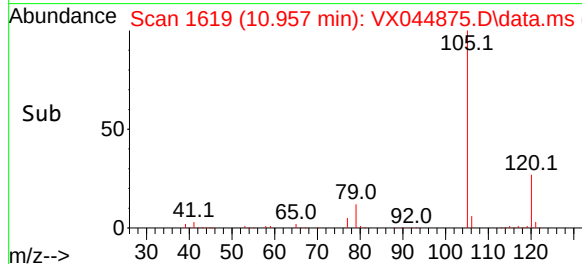
Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025



Tgt Ion:105 Resp: 390240
Ion Ratio Lower Upper
105 100
120 26.1 13.2 39.5

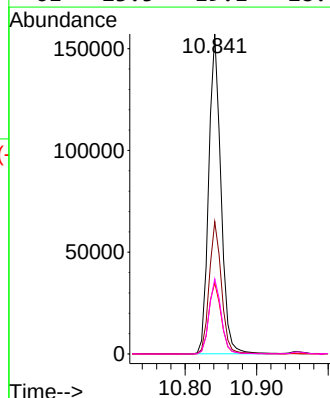
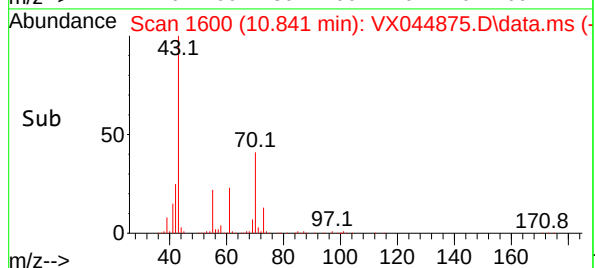
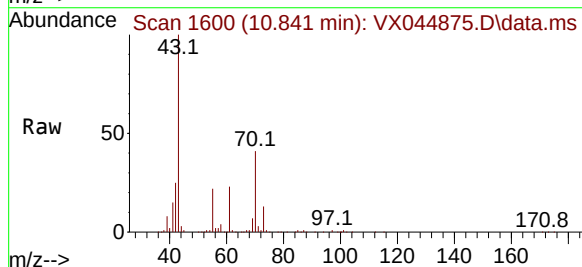
Manual Integrations
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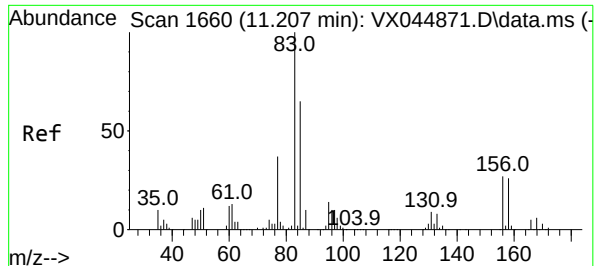
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#74
N-ethyl acetate
Concen: 52.621 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

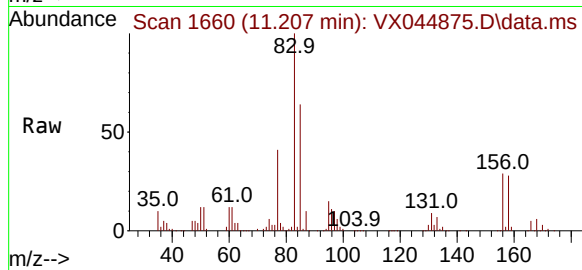
Tgt Ion: 43 Resp: 186145
Ion Ratio Lower Upper
43 100
70 41.4 33.7 50.5
55 22.8 18.6 27.8
61 23.5 19.1 28.7





#75
1,1,2,2-Tetrachloroethane
Concen: 48.331 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

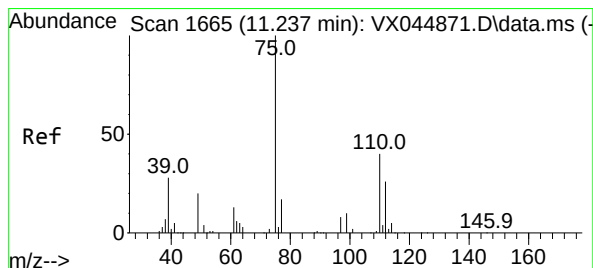
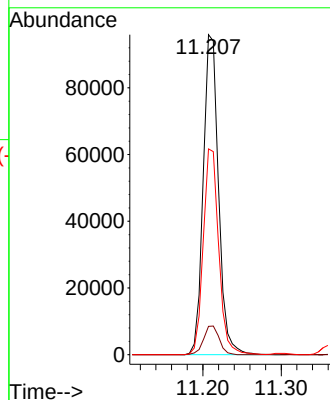
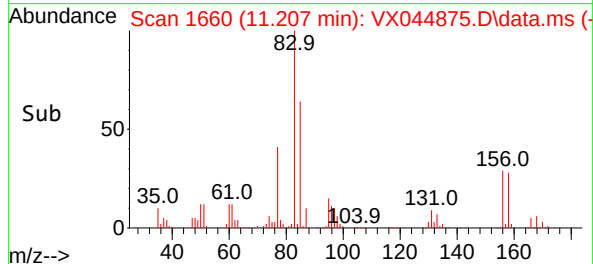
Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025



Tgt Ion: 83 Resp: 129829
Ion Ratio Lower Upper
83 100
131 9.2 4.5 13.5
85 65.1 32.3 96.8

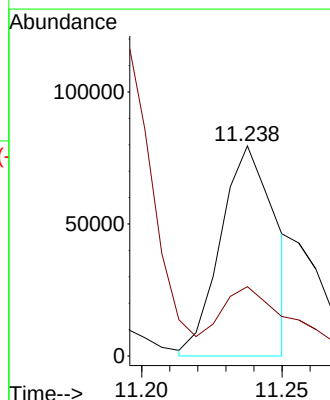
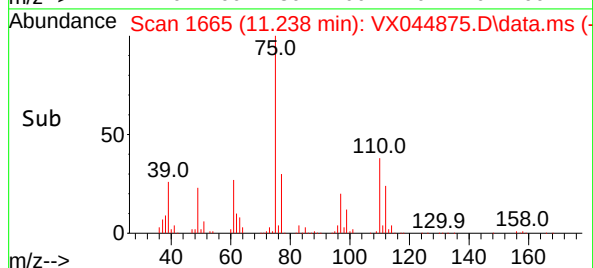
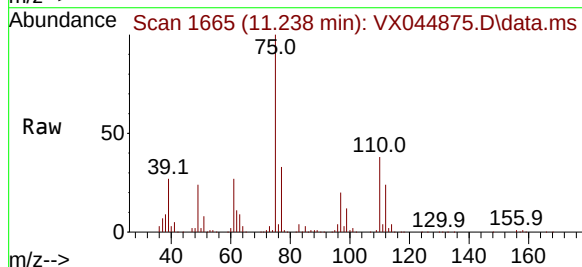
Manual Integrations
APPROVED

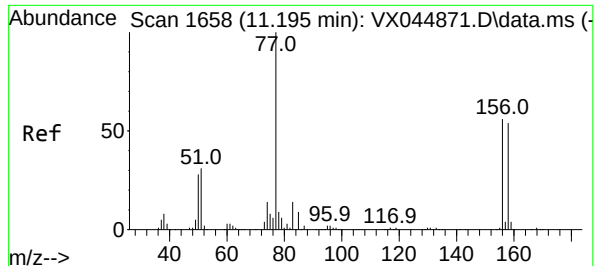
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#76
1,2,3-Trichloropropane
Concen: 49.659 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

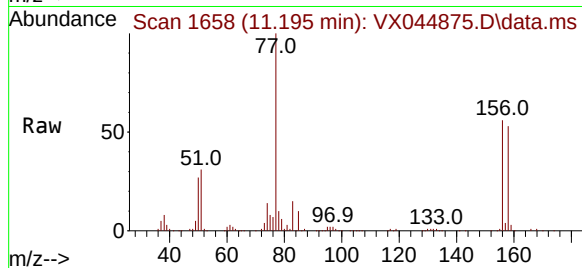
Tgt Ion: 75 Resp: 106893
Ion Ratio Lower Upper
75 100
77 43.7 21.9 65.7





#77
Bromobenzene
Concen: 49.725 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

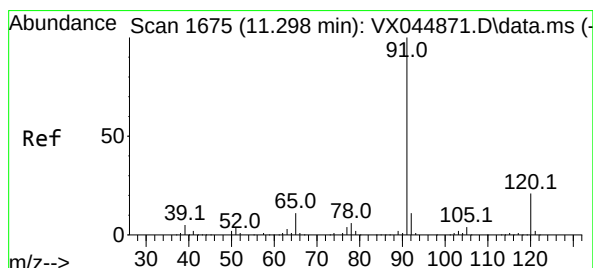
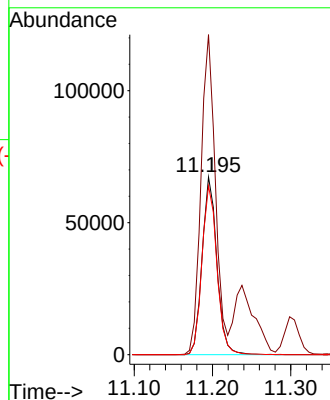
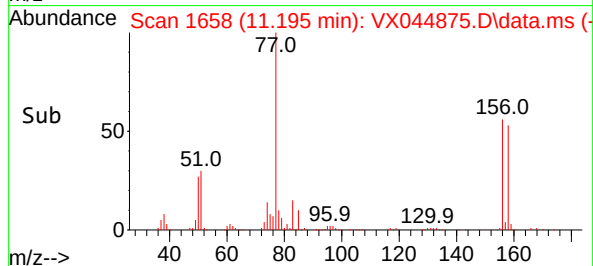
Instrument :
MSVOA_X
ClientSampleId :
ICVX021025



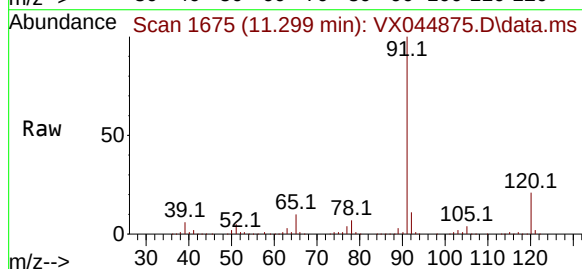
Tgt Ion:156 Resp: 88129
Ion Ratio Lower Upper
156 100
77 176.3 88.4 265.3
158 96.7 48.4 145.2

Manual Integrations
APPROVED

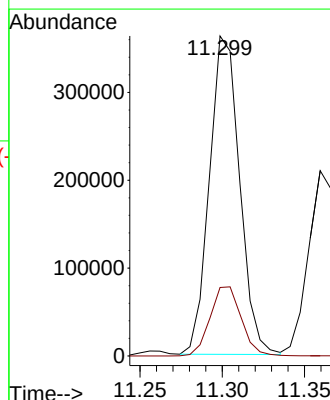
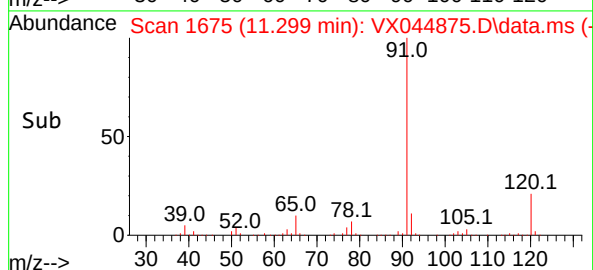
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

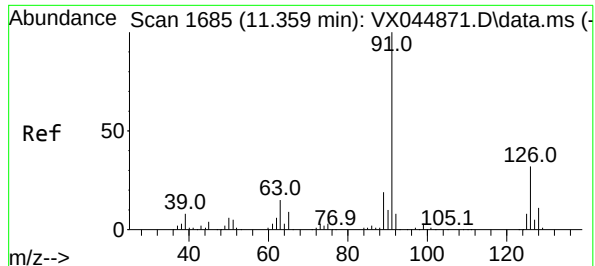


#78
n-propylbenzene
Concen: 51.386 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15



Tgt Ion: 91 Resp: 463655
Ion Ratio Lower Upper
91 100
120 22.5 11.1 33.3





#79

2-Chlorotoluene

Concen: 49.065 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVVX021025

Tgt Ion: 91 Resp: 27209

Ion Ratio Lower Upper

91 100

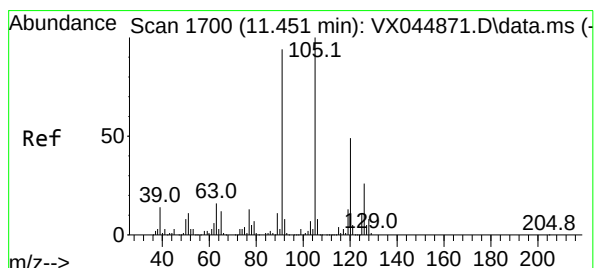
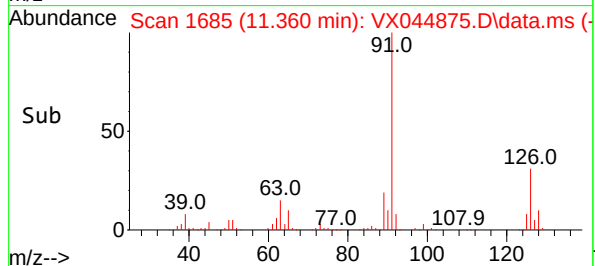
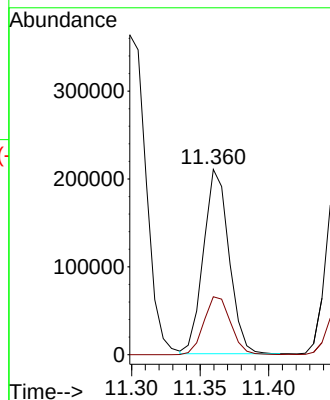
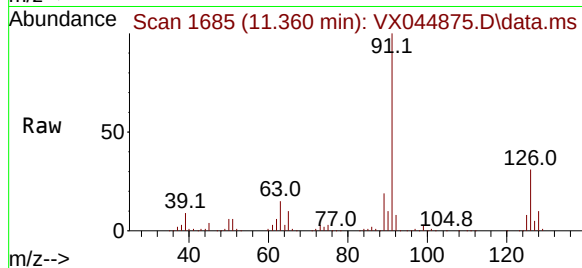
126 33.0 16.2 48.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#80

1,3,5-Trimethylbenzene

Concen: 50.956 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX044875.D

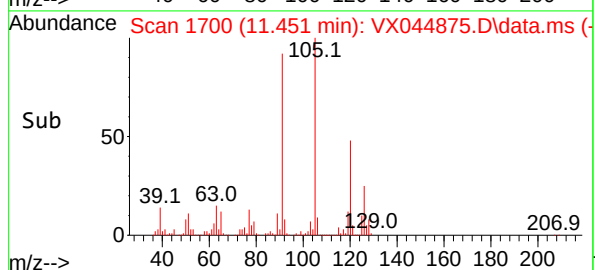
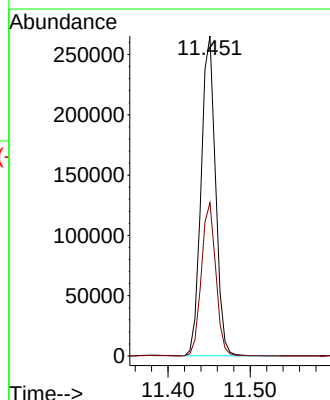
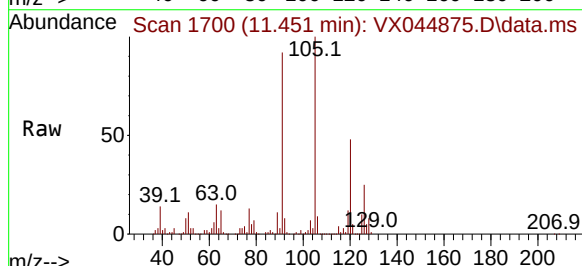
Acq: 10 Feb 2025 13:15

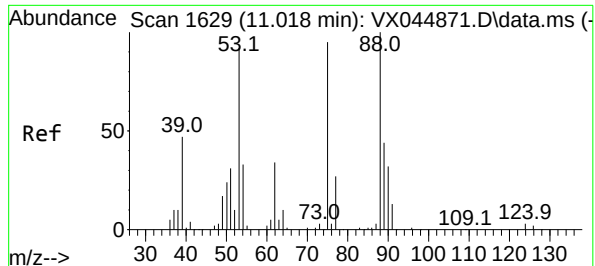
Tgt Ion:105 Resp: 323251

Ion Ratio Lower Upper

105 100

120 48.0 24.0 72.0





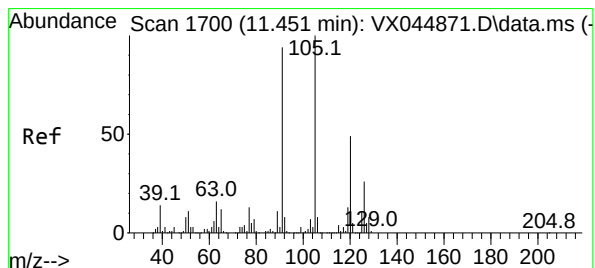
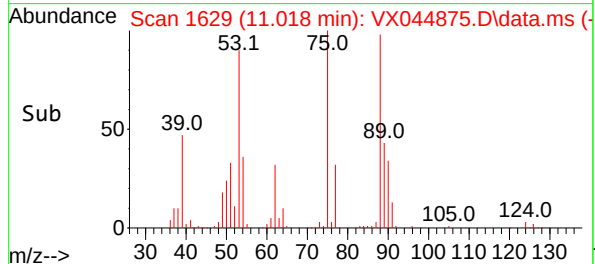
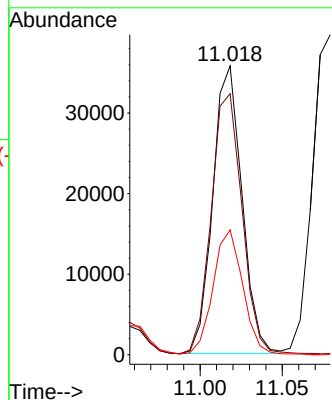
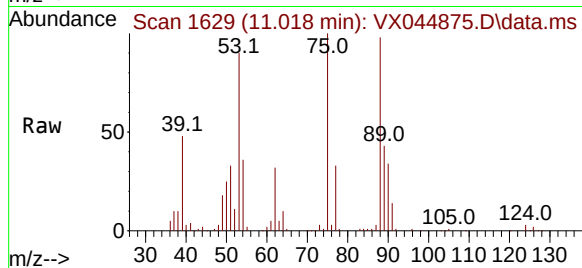
#81
trans-1,4-Dichloro-2-butene
Concen: 52.665 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 75 Resp: 44070
Ion Ratio Lower Upper
75 100
53 96.9 78.0 117.0
89 44.3 36.6 54.8

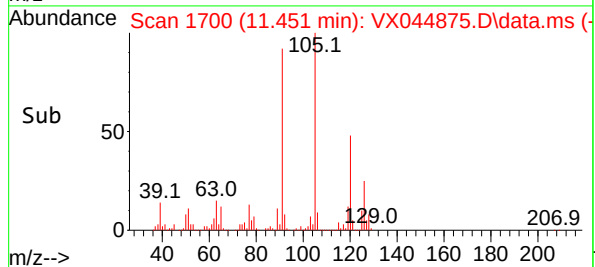
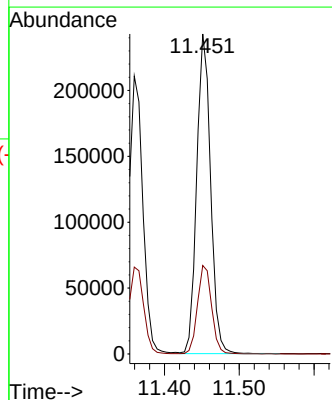
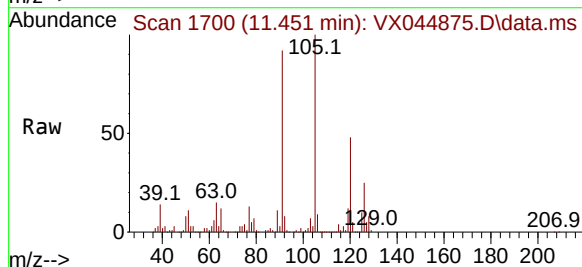
Manual Integrations
APPROVED

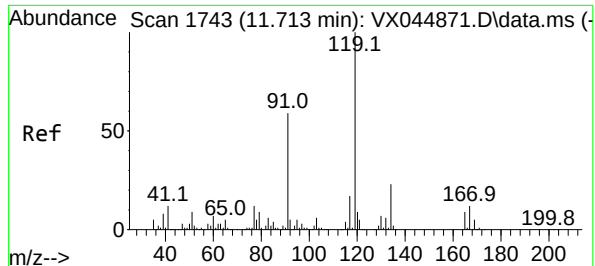
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#82
4-Chlorotoluene
Concen: 50.872 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 91 Resp: 312112
Ion Ratio Lower Upper
91 100
126 28.2 14.2 42.6





#83

tert-Butylbenzene

Concen: 50.139 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVVX021025

Tgt Ion:119 Resp: 321772

Ion Ratio Lower Upper

119 100

91 60.7 29.1 87.4

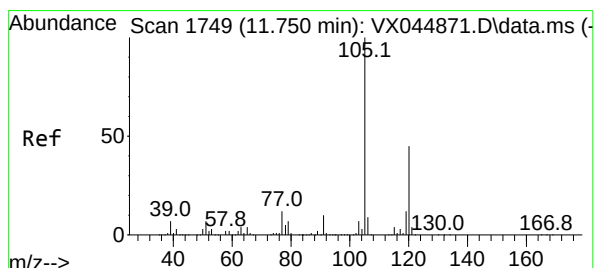
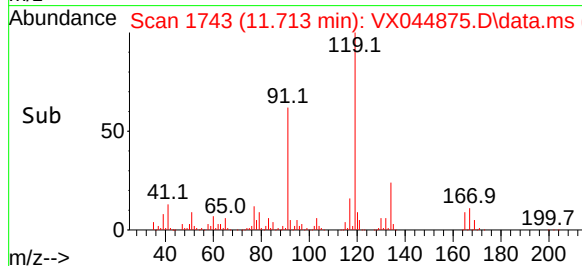
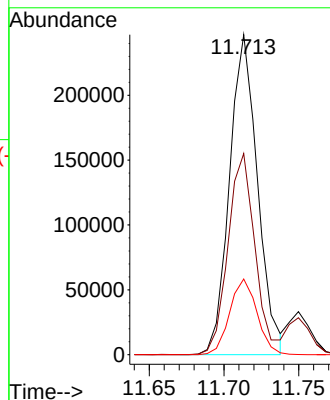
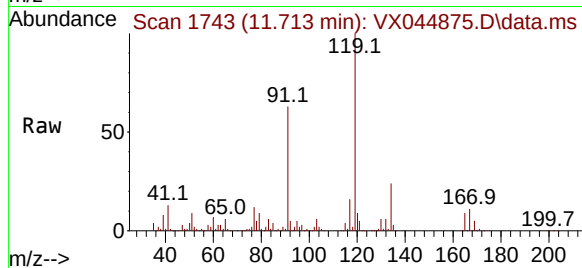
134 23.0 11.5 34.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#84

1,2,4-Trimethylbenzene

Concen: 51.593 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX044875.D

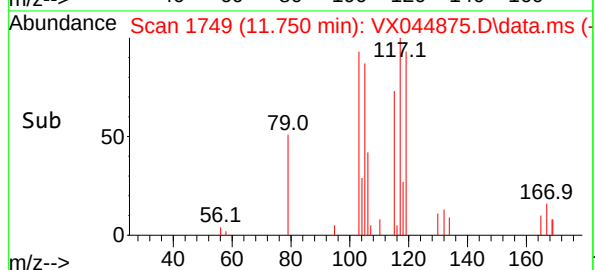
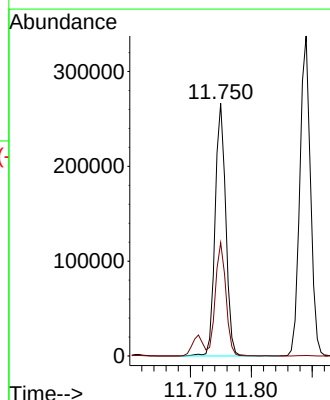
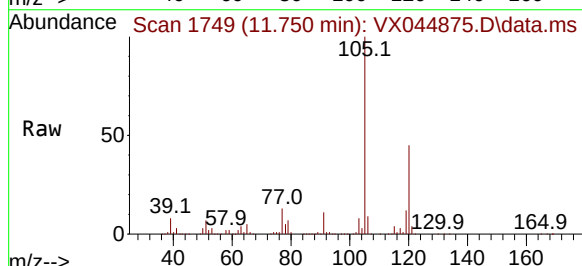
Acq: 10 Feb 2025 13:15

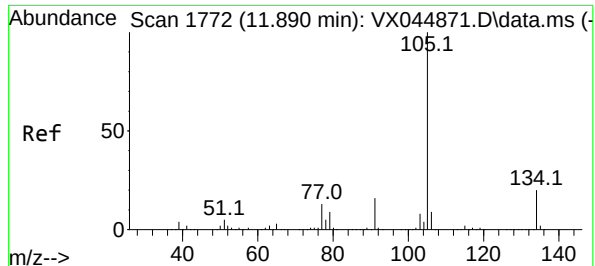
Tgt Ion:105 Resp: 323035

Ion Ratio Lower Upper

105 100

120 44.4 22.4 67.0





#85

sec-Butylbenzene

Concen: 51.617 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVVX021025

Tgt Ion:105 Resp: 41019

Ion Ratio Lower Upper

105 100

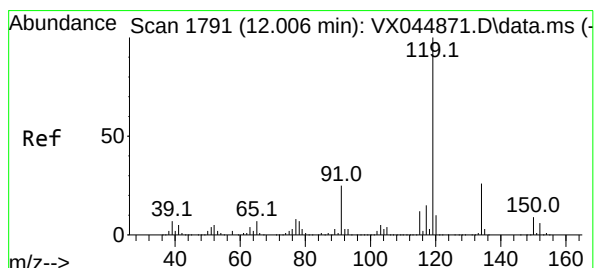
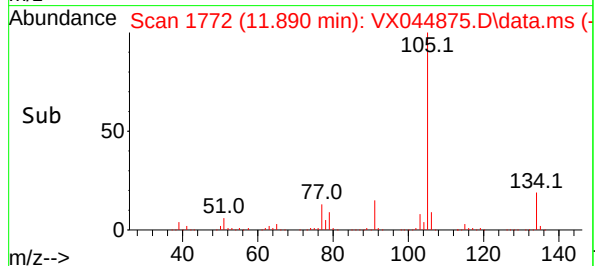
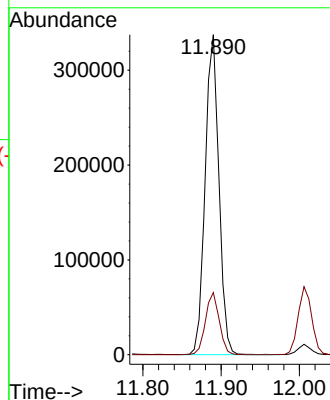
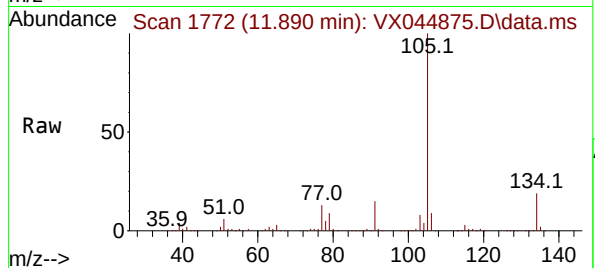
134 19.5 9.8 29.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#86

p-Isopropyltoluene

Concen: 52.581 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

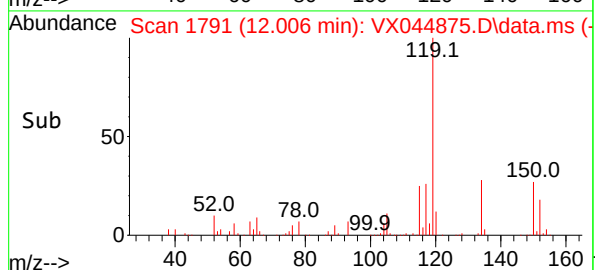
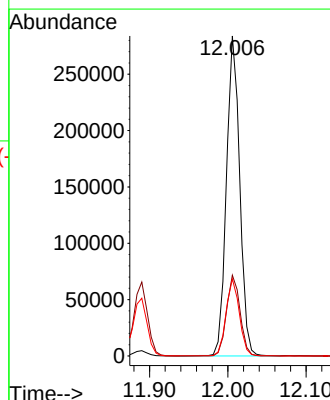
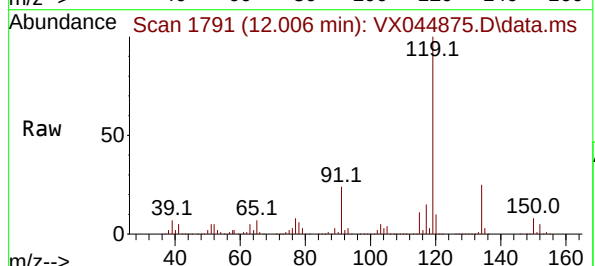
Tgt Ion:119 Resp: 336027

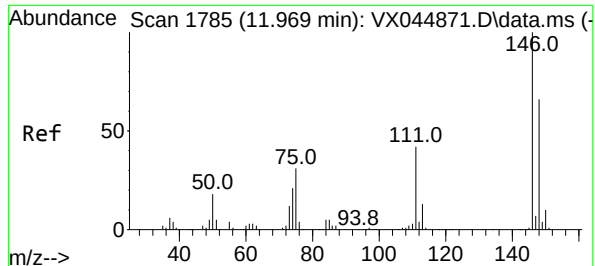
Ion Ratio Lower Upper

119 100

134 25.7 13.0 38.9

91 24.0 12.1 36.3





#87

1,3-Dichlorobenzene

Concen: 50.475 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX021025

Tgt Ion:146 Resp: 164508

Ion Ratio Lower Upper

146 100

111 42.0 21.2 63.6

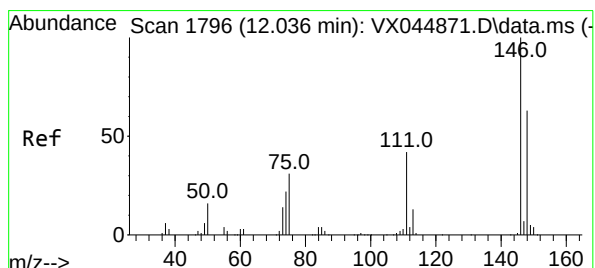
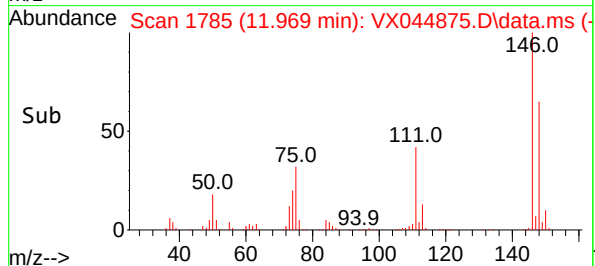
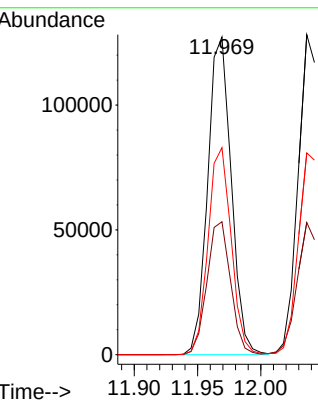
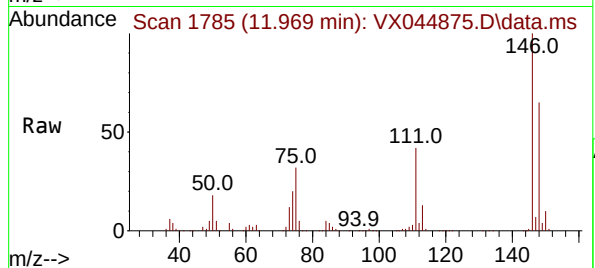
148 64.3 32.5 97.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#88

1,4-Dichlorobenzene

Concen: 49.526 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

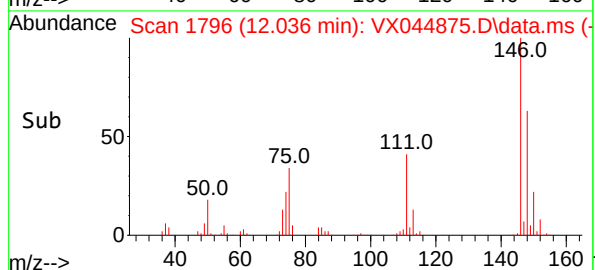
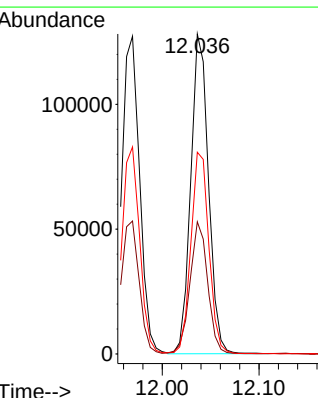
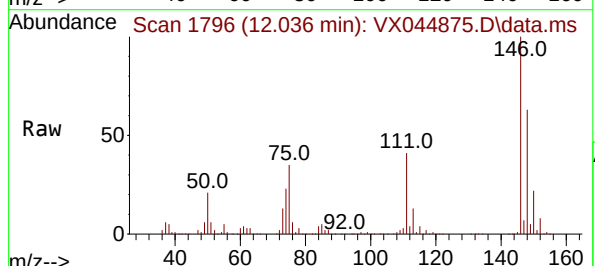
Tgt Ion:146 Resp: 163203

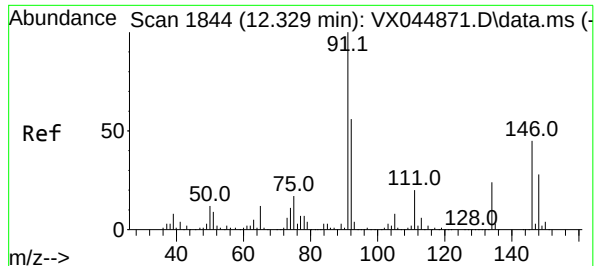
Ion Ratio Lower Upper

146 100

111 41.3 20.4 61.3

148 64.2 32.0 96.0





#89

n-Butylbenzene

Concen: 55.142 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX044875.D

Acq: 10 Feb 2025 13:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX021025

Tgt Ion: 91 Resp: 311764

Ion Ratio Lower Upper

91 100

92 54.1 27.2 81.6

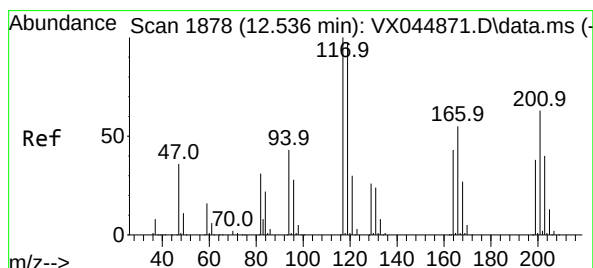
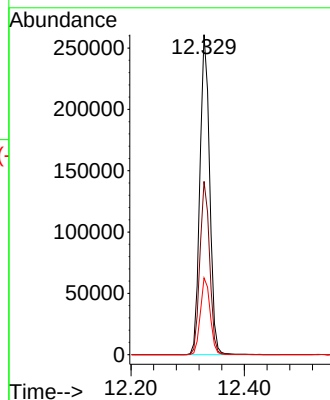
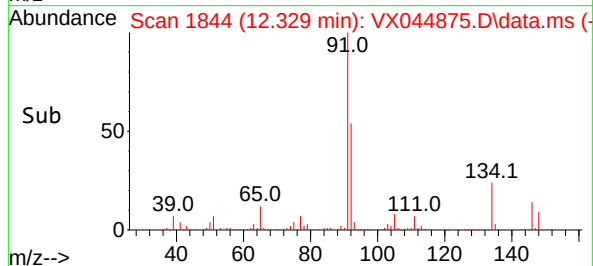
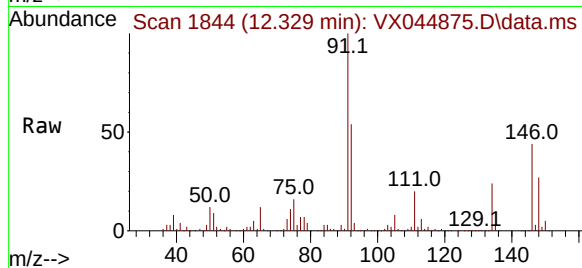
134 24.1 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#90

Hexachloroethane

Concen: 50.990 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX044875.D

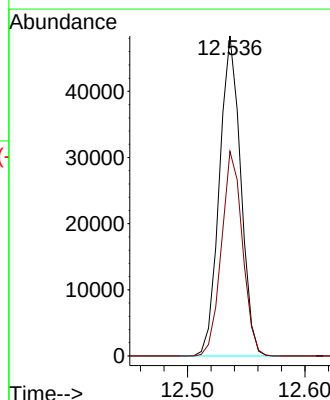
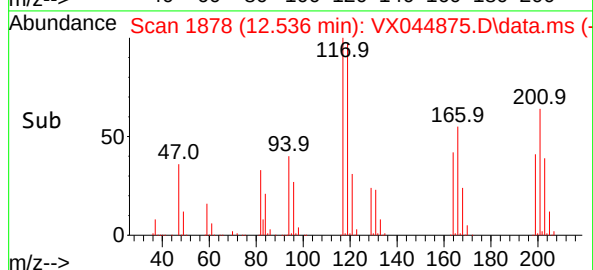
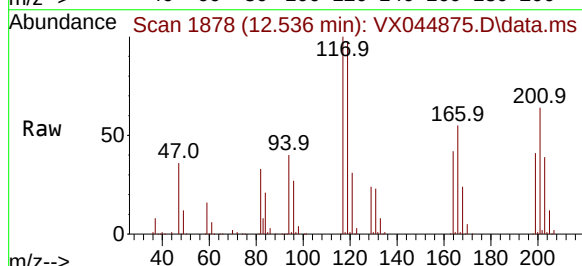
Acq: 10 Feb 2025 13:15

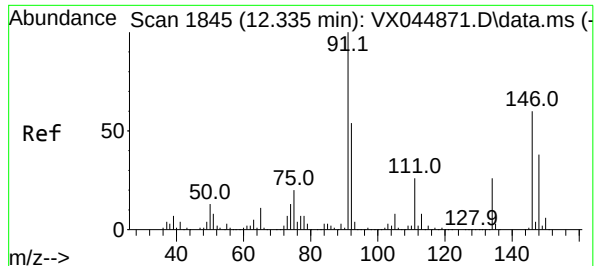
Tgt Ion:117 Resp: 61016

Ion Ratio Lower Upper

117 100

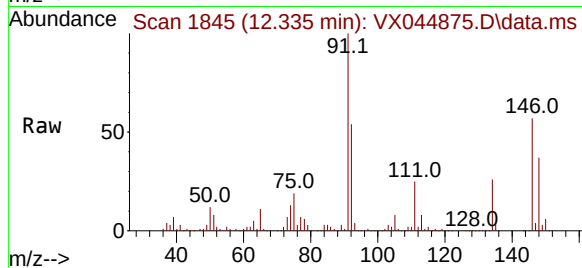
201 63.1 32.5 97.5





#91
1,2-Dichlorobenzene
Concen: 50.447 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

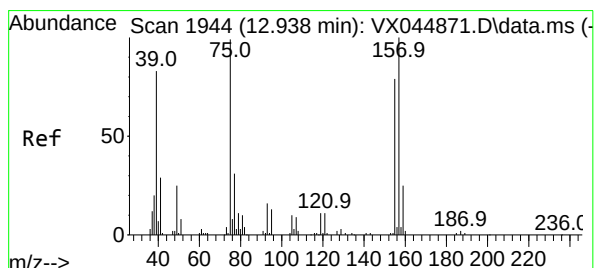
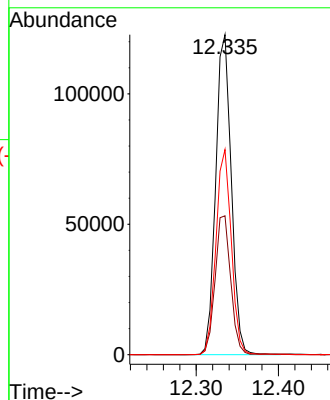
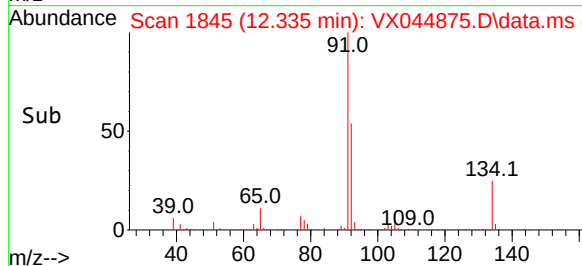
Instrument :
MSVOA_X
ClientSampleId :
ICVX021025



Tgt Ion:146 Resp: 161590
Ion Ratio Lower Upper
146 100
111 43.7 21.8 65.4
148 63.3 31.9 95.9

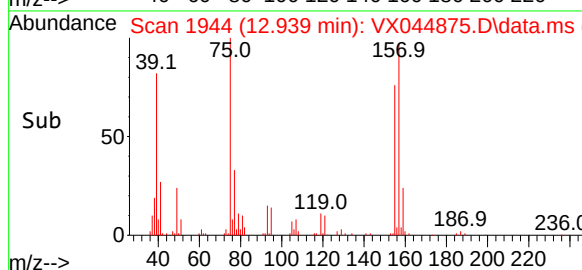
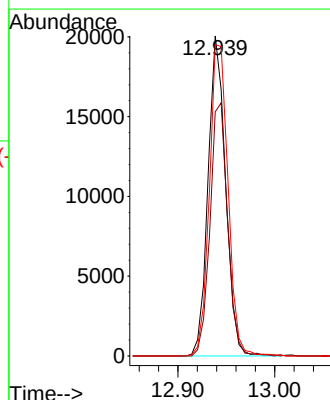
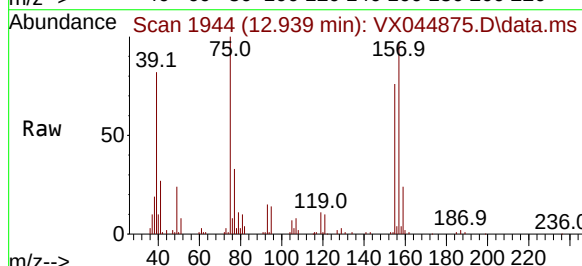
Manual Integrations
APPROVED

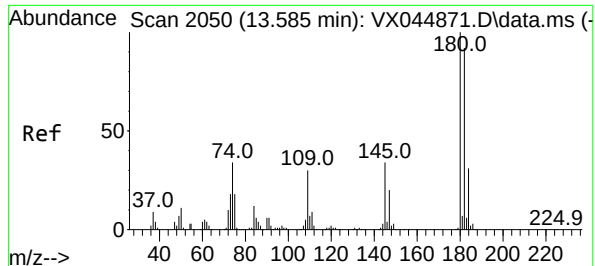
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 51.684 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

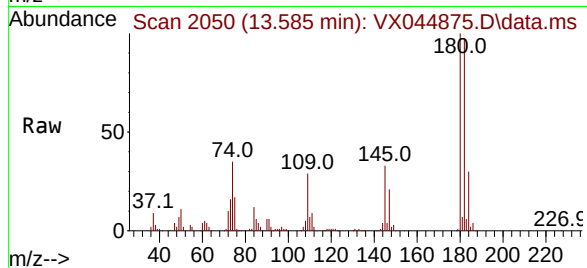
Tgt Ion: 75 Resp: 25339
Ion Ratio Lower Upper
75 100
155 79.5 40.5 121.4
157 103.5 51.4 154.3





#93
1,2,4-Trichlorobenzene
Concen: 52.726 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

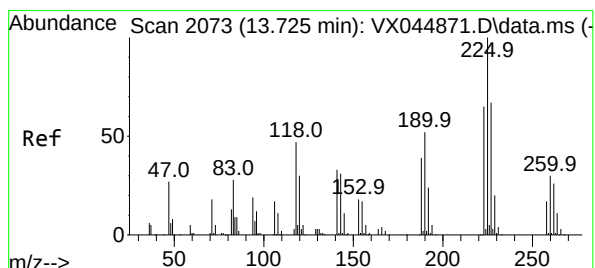
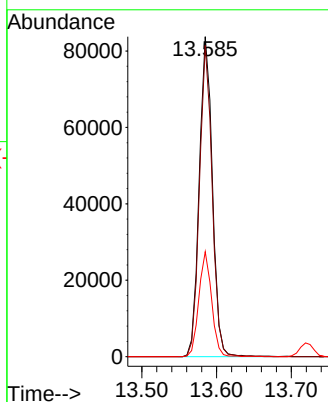
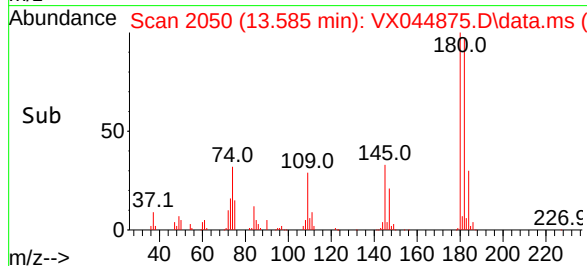
Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025



Tgt Ion:180 Resp: 102197
Ion Ratio Lower Upper
180 100
182 94.1 47.6 142.8
145 31.9 16.4 49.1

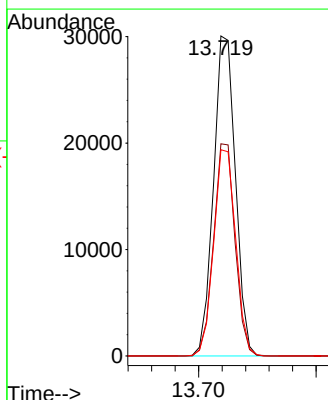
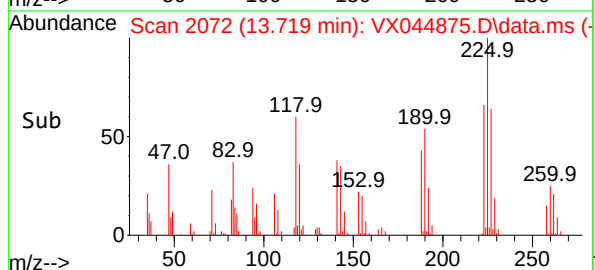
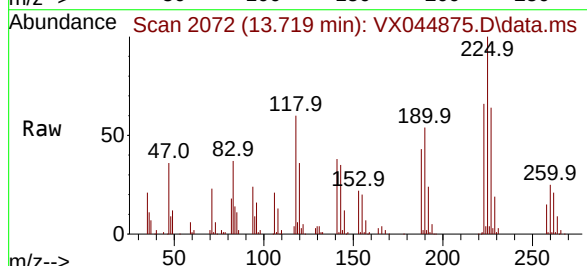
Manual Integrations
APPROVED

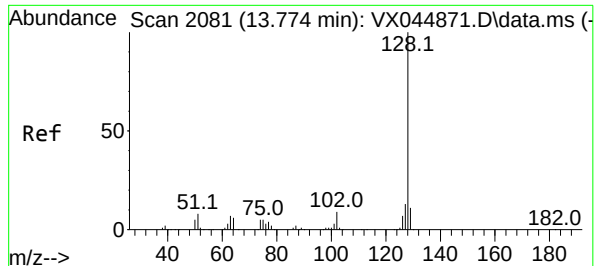
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#94
Hexachlorobutadiene
Concen: 50.683 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

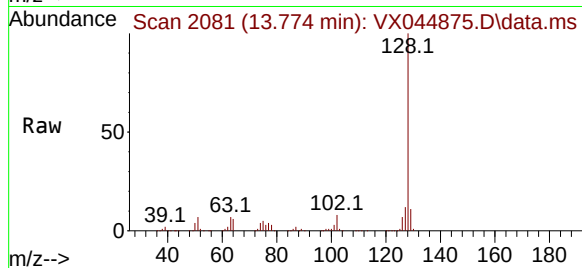
Tgt Ion:225 Resp: 38998
Ion Ratio Lower Upper
225 100
223 64.9 31.4 94.2
227 64.8 32.3 96.8





#95
Naphthalene
Concen: 53.033 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

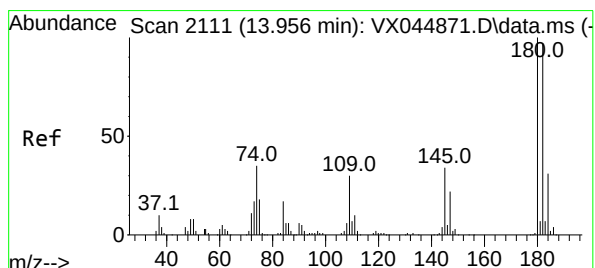
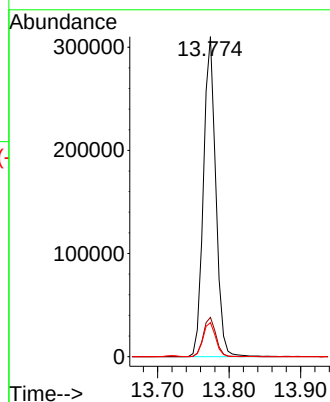
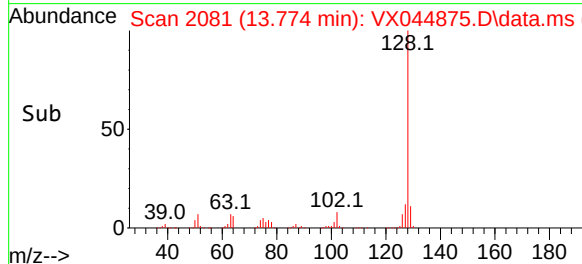
Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025



Tgt Ion:128 Resp: 371570
Ion Ratio Lower Upper
128 100
127 12.6 10.1 15.1
129 10.9 8.9 13.3

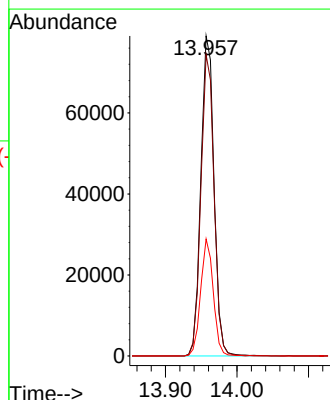
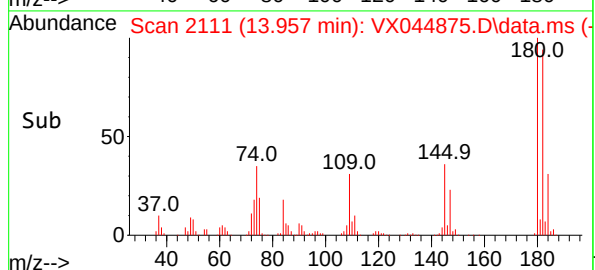
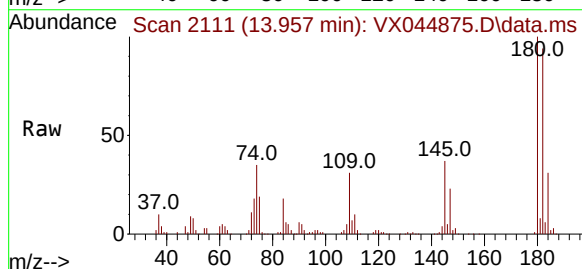
Manual Integrations
APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.575 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:180 Resp: 100730
Ion Ratio Lower Upper
180 100
182 94.3 47.9 143.6
145 35.2 17.1 51.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044875.D
 Acq On : 10 Feb 2025 13:15
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX021025

Quant Time: Feb 11 06:02:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 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	106	0.00
2 T	Dichlorodifluoromethane	0.701	0.690	1.6	105	0.00
3 P	Chloromethane	0.854	0.812	4.9	102	0.00
4 C	Vinyl Chloride	0.827	0.778	5.9#	102	0.00
5 T	Bromomethane	0.247	0.231	6.5	99	0.00
6 T	Chloroethane	0.307	0.279	9.1	87	0.00
7 T	Trichlorofluoromethane	1.046	1.016	2.9	105	0.00
8 T	Diethyl Ether	0.379	0.361	4.7	102	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.632	0.639	-1.1	109	0.00
10 T	Methyl Iodide	0.819	0.820	-0.1	103	0.00
11 T	Tert butyl alcohol	0.136	0.137	-0.7	107	0.00
12 CM	1,1-Dichloroethene	0.644	0.618	4.0#	104	0.00
13 T	Acrolein	0.140	0.135	3.6	101	0.00
14 T	Allyl chloride	1.165	1.141	2.1	105	0.00
15 T	Acrylonitrile	0.363	0.365	-0.6	102	0.00
16 T	Acetone	0.294	0.303	-3.1	110	0.00
17 T	Carbon Disulfide	1.767	1.749	1.0	105	0.00
18 T	Methyl Acetate	0.928	0.927	0.1	104	0.00
19 T	Methyl tert-butyl Ether	2.050	2.028	1.1	105	0.00
20 T	Methylene Chloride	0.721	0.692	4.0	104	0.00
21 T	trans-1,2-Dichloroethene	0.634	0.623	1.7	103	0.00
22 T	Diisopropyl ether	2.203	2.210	-0.3	105	0.00
23 T	Vinyl Acetate	1.796	1.850	-3.0	106	0.00
24 P	1,1-Dichloroethane	1.233	1.216	1.4	105	0.00
25 T	2-Butanone	0.478	0.493	-3.1	104	0.00
26 T	2,2-Dichloropropane	0.978	0.983	-0.5	110	0.00
27 T	cis-1,2-Dichloroethene	0.762	0.754	1.0	106	0.00
28 T	Bromochloromethane	0.593	0.536	9.6	98	0.00
29 T	Tetrahydrofuran	0.317	0.321	-1.3	104	0.00
30 C	Chloroform	1.196	1.157	3.3#	105	0.00
31 T	Cyclohexane	1.137	1.119	1.6	106	0.00
32 T	1,1,1-Trichloroethane	1.014	0.990	2.4	105	0.00
33 S	1,2-Dichloroethane-d4	0.732	0.704	3.8	103	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	105	0.00
35 S	Dibromofluoromethane	0.325	0.320	1.5	105	0.00
36 T	1,1-Dichloropropene	0.469	0.457	2.6	103	0.00
37 T	Ethyl Acetate	0.522	0.514	1.5	102	0.00
38 T	Carbon Tetrachloride	0.460	0.451	2.0	104	0.00
39 T	Methylcyclohexane	0.606	0.646	-6.6	109	0.00
40 TM	Benzene	1.465	1.462	0.2	104	0.00
41 T	Methacrylonitrile	0.279	0.300	-7.5	104	0.00
42 TM	1,2-Dichloroethane	0.467	0.471	-0.9	105	0.00
43 T	Isopropyl Acetate	0.842	0.873	-3.7	104	0.00
44 TM	Trichloroethene	0.335	0.334	0.3	105	0.00
45 C	1,2-Dichloropropane	0.364	0.367	-0.8#	105	0.00
46 T	Dibromomethane	0.253	0.250	1.2	103	0.00
47 T	Bromodichloromethane	0.489	0.499	-2.0	105	0.00
48 T	Methyl methacrylate	0.397	0.420	-5.8	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044875.D
 Acq On : 10 Feb 2025 13:15
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVX021025

Quant Time: Feb 11 06:02:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.009	0.009	0.0	101	0.00
50 S	Toluene-d8	1.229	1.221	0.7	103	0.00
51 T	4-Methyl-2-Pentanone	0.512	0.543	-6.1	103	0.00
52 CM	Toluene	0.872	0.884	-1.4#	103	0.00
53 T	t-1,3-Dichloropropene	0.495	0.532	-7.5	109	0.00
54 T	cis-1,3-Dichloropropene	0.552	0.585	-6.0	106	0.00
55 T	1,1,2-Trichloroethane	0.335	0.341	-1.8	105	0.00
56 T	Ethyl methacrylate	0.542	0.586	-8.1	106	0.00
57 T	1,3-Dichloropropane	0.587	0.597	-1.7	103	0.00
58 T	2-Chloroethyl Vinyl ether	0.266	0.302	-13.5	110	0.00
59 T	2-Hexanone	0.369	0.398	-7.9	103	0.00
60 T	Dibromochloromethane	0.359	0.371	-3.3	104	0.00
61 T	1,2-Dibromoethane	0.340	0.350	-2.9	105	0.00
62 S	4-Bromofluorobenzene	0.414	0.429	-3.6	104	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
64 T	Tetrachloroethene	0.315	0.312	1.0	105	0.00
65 PM	Chlorobenzene	1.074	1.094	-1.9	104	0.00
66 T	1,1,1,2-Tetrachloroethane	0.346	0.354	-2.3	104	0.00
67 C	Ethyl Benzene	1.895	1.949	-2.8#	105	0.00
68 T	m/p-Xylenes	0.699	0.729	-4.3	105	0.00
69 T	o-Xylene	0.701	0.713	-1.7	105	0.00
70 T	Styrene	1.130	1.210	-7.1	105	0.00
71 P	Bromoform	0.258	0.279	-8.1	103	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
73 T	Isopropylbenzene	4.026	4.020	0.1	104	0.00
74 T	N-amyl acetate	1.822	1.917	-5.2	106	0.00
75 P	1,1,2,2-Tetrachloroethane	1.383	1.337	3.3	103	0.00
76 T	1,2,3-Trichloropropane	1.109	1.101	0.7	104	0.00
77 T	Bromobenzene	0.913	0.908	0.5	104	0.00
78 T	n-propylbenzene	4.647	4.776	-2.8	106	0.00
79 T	2-Chlorotoluene	2.856	2.803	1.9	103	0.00
80 T	1,3,5-Trimethylbenzene	3.267	3.329	-1.9	105	0.00
81 T	trans-1,4-Dichloro-2-butene	0.431	0.454	-5.3	109	0.00
82 T	4-Chlorotoluene	3.160	3.215	-1.7	105	0.00
83 T	tert-Butylbenzene	3.305	3.314	-0.3	105	0.00
84 T	1,2,4-Trimethylbenzene	3.225	3.327	-3.2	104	0.00
85 T	sec-Butylbenzene	4.093	4.225	-3.2	107	0.00
86 T	p-Isopropyltoluene	3.291	3.461	-5.2	107	0.00
87 T	1,3-Dichlorobenzene	1.678	1.694	-1.0	106	0.00
88 T	1,4-Dichlorobenzene	1.697	1.681	0.9	105	0.00
89 T	n-Butylbenzene	2.912	3.211	-10.3	108	0.00
90 T	Hexachloroethane	0.616	0.628	-1.9	107	0.00
91 T	1,2-Dichlorobenzene	1.650	1.664	-0.8	105	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.252	0.261	-3.6	106	0.00
93 T	1,2,4-Trichlorobenzene	0.998	1.053	-5.5	109	0.00
94 T	Hexachlorobutadiene	0.396	0.402	-1.5	110	0.00
95 T	Naphthalene	3.608	3.827	-6.1	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 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	1.006	1.038	-3.2	105	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044875.D
 Acq On : 10 Feb 2025 13:15
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX021025

Quant Time: Feb 11 06:02:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 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	106	0.00
2 T	Dichlorodifluoromethane	50.000	49.173	1.7	105	0.00
3 P	Chloromethane	50.000	47.590	4.8	102	0.00
4 C	Vinyl Chloride	50.000	47.033	5.9#	102	0.00
5 T	Bromomethane	50.000	46.719	6.6	99	0.00
6 T	Chloroethane	50.000	42.198	15.6	87	0.00
7 T	Trichlorofluoromethane	50.000	48.558	2.9	105	0.00
8 T	Diethyl Ether	50.000	47.544	4.9	102	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	50.588	-1.2	109	0.00
10 T	Methyl Iodide	50.000	50.082	-0.2	103	0.00
11 T	Tert butyl alcohol	250.000	251.791	-0.7	107	0.00
12 CM	1,1-Dichloroethene	50.000	47.935	4.1#	104	0.00
13 T	Acrolein	250.000	240.879	3.6	101	0.00
14 T	Allyl chloride	50.000	48.976	2.0	105	0.00
15 T	Acrylonitrile	250.000	251.537	-0.6	102	0.00
16 T	Acetone	250.000	257.198	-2.9	110	0.00
17 T	Carbon Disulfide	50.000	49.472	1.1	105	0.00
18 T	Methyl Acetate	50.000	49.920	0.2	104	0.00
19 T	Methyl tert-butyl Ether	50.000	49.453	1.1	105	0.00
20 T	Methylene Chloride	50.000	47.978	4.0	104	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.129	1.7	103	0.00
22 T	Diisopropyl ether	50.000	50.138	-0.3	105	0.00
23 T	Vinyl Acetate	250.000	257.465	-3.0	106	0.00
24 P	1,1-Dichloroethane	50.000	49.329	1.3	105	0.00
25 T	2-Butanone	250.000	258.175	-3.3	104	0.00
26 T	2,2-Dichloropropane	50.000	50.285	-0.6	110	0.00
27 T	cis-1,2-Dichloroethene	50.000	49.493	1.0	106	0.00
28 T	Bromochloromethane	50.000	45.250	9.5	98	0.00
29 T	Tetrahydrofuran	250.000	253.318	-1.3	104	0.00
30 C	Chloroform	50.000	48.393	3.2#	105	0.00
31 T	Cyclohexane	50.000	49.211	1.6	106	0.00
32 T	1,1,1-Trichloroethane	50.000	48.825	2.3	105	0.00
33 S	1,2-Dichloroethane-d4	50.000	48.061	3.9	103	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	105	0.00
35 S	Dibromofluoromethane	50.000	49.173	1.7	105	0.00
36 T	1,1-Dichloropropene	50.000	48.702	2.6	103	0.00
37 T	Ethyl Acetate	50.000	49.300	1.4	102	0.00
38 T	Carbon Tetrachloride	50.000	49.083	1.8	104	0.00
39 T	Methylcyclohexane	50.000	53.254	-6.5	109	0.00
40 TM	Benzene	50.000	49.919	0.2	104	0.00
41 T	Methacrylonitrile	50.000	53.741	-7.5	104	0.00
42 TM	1,2-Dichloroethane	50.000	50.410	-0.8	105	0.00
43 T	Isopropyl Acetate	50.000	51.798	-3.6	104	0.00
44 TM	Trichloroethene	50.000	49.917	0.2	105	0.00
45 C	1,2-Dichloropropane	50.000	50.387	-0.8#	105	0.00
46 T	Dibromomethane	50.000	49.540	0.9	103	0.00
47 T	Bromodichloromethane	50.000	50.980	-2.0	105	0.00
48 T	Methyl methacrylate	50.000	52.848	-5.7	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\WX021025\
 Data File : VX044875.D
 Acq On : 10 Feb 2025 13:15
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVX021025

Quant Time: Feb 11 06:02:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 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	1021.138	-2.1	101	0.00
50 S	Toluene-d8	50.000	49.649	0.7	103	0.00
51 T	4-Methyl-2-Pentanone	250.000	265.112	-6.0	103	0.00
52 CM	Toluene	50.000	50.680	-1.4#	103	0.00
53 T	t-1,3-Dichloropropene	50.000	53.731	-7.5	109	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.986	-6.0	106	0.00
55 T	1,1,2-Trichloroethane	50.000	50.811	-1.6	105	0.00
56 T	Ethyl methacrylate	50.000	54.068	-8.1	106	0.00
57 T	1,3-Dichloropropane	50.000	50.852	-1.7	103	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	284.352	-13.7	110	0.00
59 T	2-Hexanone	250.000	269.951	-8.0	103	0.00
60 T	Dibromochloromethane	50.000	51.673	-3.3	104	0.00
61 T	1,2-Dibromoethane	50.000	51.436	-2.9	105	0.00
62 S	4-Bromofluorobenzene	50.000	51.786	-3.6	104	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	104	0.00
64 T	Tetrachloroethene	50.000	49.424	1.2	105	0.00
65 PM	Chlorobenzene	50.000	50.952	-1.9	104	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	51.205	-2.4	104	0.00
67 C	Ethyl Benzene	50.000	51.415	-2.8#	105	0.00
68 T	m/p-Xylenes	100.000	104.282	-4.3	105	0.00
69 T	o-Xylene	50.000	50.804	-1.6	105	0.00
70 T	Styrene	50.000	53.521	-7.0	105	0.00
71 P	Bromoform	50.000	53.997	-8.0	103	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	105	0.00
73 T	Isopropylbenzene	50.000	49.921	0.2	104	0.00
74 T	N-amyl acetate	50.000	52.621	-5.2	106	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	48.331	3.3	103	0.00
76 T	1,2,3-Trichloropropane	50.000	49.659	0.7	104	0.00
77 T	Bromobenzene	50.000	49.725	0.5	104	0.00
78 T	n-propylbenzene	50.000	51.386	-2.8	106	0.00
79 T	2-Chlorotoluene	50.000	49.065	1.9	103	0.00
80 T	1,3,5-Trimethylbenzene	50.000	50.956	-1.9	105	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	52.665	-5.3	109	0.00
82 T	4-Chlorotoluene	50.000	50.872	-1.7	105	0.00
83 T	tert-Butylbenzene	50.000	50.139	-0.3	105	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.593	-3.2	104	0.00
85 T	sec-Butylbenzene	50.000	51.617	-3.2	107	0.00
86 T	p-Isopropyltoluene	50.000	52.581	-5.2	107	0.00
87 T	1,3-Dichlorobenzene	50.000	50.475	-1.0	106	0.00
88 T	1,4-Dichlorobenzene	50.000	49.526	0.9	105	0.00
89 T	n-Butylbenzene	50.000	55.142	-10.3	108	0.00
90 T	Hexachloroethane	50.000	50.990	-2.0	107	0.00
91 T	1,2-Dichlorobenzene	50.000	50.447	-0.9	105	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	51.684	-3.4	106	0.00
93 T	1,2,4-Trichlorobenzene	50.000	52.726	-5.5	109	0.00
94 T	Hexachlorobutadiene	50.000	50.683	-1.4	110	0.00
95 T	Naphthalene	50.000	53.033	-6.1	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 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	51.575	-3.2	105	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: TETR06

Lab Code: CHEM Case No.: Q1250 SAS No.: Q1250 SDG No.: Q1250

Instrument ID: MSVOA_X Calibration Date/Time: 02/10/2025 11:34

Lab File ID: VX044871.D Init. Calib. Date(s): 02/10/2025 02/10/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:25 12:28

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.854	0.843		-1.29	
Vinyl Chloride	0.827	0.808		-2.3	
Bromomethane	0.247	0.249		0.81	
Chloroethane	0.307	0.341		11.07	
Trichlorofluoromethane	1.046	1.029		-1.63	
1,1,2-Trichlorotrifluoroethane	0.632	0.626		-0.95	
1,1-Dichloroethene	0.644	0.630		-2.17	
Acetone	0.294	0.293		-0.34	
Carbon Disulfide	1.767	1.762		-0.28	
Methyl tert-butyl Ether	2.050	2.046		-0.19	
Methylene Chloride	0.721	0.704		-2.36	
trans-1,2-Dichloroethene	0.634	0.640		0.95	
1,1-Dichloroethane	1.233	1.227		-0.49	
2-Butanone	0.478	0.506		5.86	
Carbon Tetrachloride	0.460	0.453		-1.52	
cis-1,2-Dichloroethene	0.762	0.758		-0.52	
Chloroform	1.196	1.169		-2.26	
1,1,1-Trichloroethane	1.014	1.005		-0.89	
Methylcyclohexane	0.606	0.622		2.64	
Benzene	1.465	1.470		0.34	
1,2-Dichloroethane	0.467	0.472		1.07	
Trichloroethene	0.335	0.335		0	
1,2-Dichloropropane	0.364	0.367		0.82	
Bromodichloromethane	0.489	0.500		2.25	
4-Methyl-2-Pentanone	0.512	0.554		8.2	
Toluene	0.872	0.898		2.98	
t-1,3-Dichloropropene	0.495	0.514		3.84	
cis-1,3-Dichloropropene	0.552	0.577		4.53	
1,1,2-Trichloroethane	0.335	0.341		1.79	
2-Hexanone	0.369	0.404		9.48	
Dibromochloromethane	0.359	0.373		3.9	
Tetrachloroethene	0.315	0.310		-1.59	
Chlorobenzene	1.074	1.096		2.05	
Ethyl Benzene	1.895	1.935		2.11	
m/p-Xylenes	0.699	0.724		3.58	
o-Xylene	0.701	0.707		0.86	
Styrene	1.130	1.199		6.11	
Bromoform	0.258	0.280		8.53	

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



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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1250 SAS No.: Q1250 SDG No.: Q1250

Instrument ID: MSVOA_X Calibration Date/Time: 02/10/2025 11:34

Lab File ID: VX044871.D Init. Calib. Date(s): 02/10/2025 02/10/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:25 12:28

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	4.026	4.045		0.47	
1,1,2,2-Tetrachloroethane	1.383	1.366		-1.23	
1,3-Dichlorobenzene	1.678	1.679		0.06	
1,4-Dichlorobenzene	1.697	1.686		-0.65	
1,2-Dichlorobenzene	1.650	1.666		0.97	
1,2-Dichloroethane-d4	0.732	0.723		-1.23	
Dibromofluoromethane	0.325	0.320		-1.54	
Toluene-d8	1.229	1.239		0.81	
4-Bromofluorobenzene	0.414	0.431		4.11	

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\VX021025\
 Data File : VX044871.D
 Acq On : 10 Feb 2025 11:34
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 02:01:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 01:47:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.543	168	127984	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	233736	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	204751	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	92648	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	92593	49.424	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.840%		
35) Dibromofluoromethane	5.379	113	74906	49.291	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.580%		
50) Toluene-d8	8.646	98	289575	50.392	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.780%		
62) 4-Bromofluorobenzene	11.079	95	100798	52.031	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	104.060%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	89581	49.905	ug/l	100
3) Chloromethane	1.300	50	107836	49.359	ug/l	100
4) Vinyl Chloride	1.373	62	103354	48.832	ug/l	100
5) Bromomethane	1.593	94	31886	50.345	ug/l	100
6) Chloroethane	1.666	64	43657	55.583	ug/l	100
7) Trichlorofluoromethane	1.873	101	131729	49.215	ug/l	100
8) Diethyl Ether	2.129	74	48023	49.473	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.318	101	80068	49.511	ug/l	100
10) Methyl Iodide	2.446	142	108383	51.712	ug/l	100
11) Tert butyl alcohol	2.983	59	87254	251.049	ug/l	100
12) 1,1-Dichloroethene	2.312	96	80672	48.904	ug/l	100
13) Acrolein	2.233	56	90518	252.426	ug/l	100
14) Allyl chloride	2.660	41	148044	49.658	ug/l	100
15) Acrylonitrile	3.062	53	242268	261.074	ug/l	100
16) Acetone	2.379	43	187739	249.274	ug/l	100
17) Carbon Disulfide	2.501	76	225511	49.853	ug/l	100
18) Methyl Acetate	2.702	43	121039	50.928	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	261852	49.890	ug/l	100
20) Methylene Chloride	2.782	84	90038	48.808	ug/l	100
21) trans-1,2-Dichloroethene	3.086	96	81950	50.475	ug/l	100
22) Diisopropyl ether	3.757	45	287347	50.946	ug/l	100
23) Vinyl Acetate	3.714	43	1190152	258.830	ug/l	100
24) 1,1-Dichloroethane	3.605	63	157003	49.749	ug/l	100
25) 2-Butanone	4.556	43	323510	264.528	ug/l	100
26) 2,2-Dichloropropane	4.470	77	121901	48.707	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	96965	49.721	ug/l	100
28) Bromochloromethane	4.891	49	74707	49.258	ug/l	100
29) Tetrahydrofuran	5.001	42	210414	259.105	ug/l	100
30) Chloroform	5.086	83	149581	48.874	ug/l	100
31) Cyclohexane	5.464	56	143500	49.322	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	128561	49.523	ug/l	100
36) 1,1-Dichloropropene	5.690	75	108206	49.353	ug/l	100
37) Ethyl Acetate	4.708	43	123238	50.535	ug/l	100
38) Carbon Tetrachloride	5.671	117	105873	49.277	ug/l	100
39) Methylcyclohexane	7.372	83	145338	51.274	ug/l	100
40) Benzene	6.031	78	343557	50.182	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044871.D
 Acq On : 10 Feb 2025 11:34
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 02:01:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 01:47:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.915	41	70572	54.065	ug/l	100
42) 1,2-Dichloroethane	6.080	62	110347	50.573	ug/l	100
43) Isopropyl Acetate	6.336	43	204703	51.981	ug/l	100
44) Trichloroethene	7.122	130	78274	50.020	ug/l	100
45) 1,2-Dichloropropane	7.427	63	85733	50.335	ug/l	100
46) Dibromomethane	7.573	93	59625	50.479	ug/l	100
47) Bromodichloromethane	7.817	83	116892	51.108	ug/l	100
48) Methyl methacrylate	7.689	41	98519	53.057	ug/l	100
49) 1,4-Dioxane	7.659	88	42094	1056.618	ug/l	100
51) 4-Methyl-2-Pentanone	8.573	43	647283	270.364	ug/l	100
52) Toluene	8.714	92	210007	51.507	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	120125	51.902	ug/l	100
54) cis-1,3-Dichloropropene	8.360	75	134763	52.223	ug/l	100
55) 1,1,2-Trichloroethane	9.146	97	79741	50.876	ug/l	100
56) Ethyl methacrylate	9.116	69	134975	53.319	ug/l	100
57) 1,3-Dichloropropane	9.305	76	141335	51.537	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	336412	270.652	ug/l	100
59) 2-Hexanone	9.427	43	472301	273.800	ug/l	100
60) Dibromochloromethane	9.518	129	87240	52.045	ug/l	100
61) 1,2-Dibromoethane	9.604	107	81915	51.564	ug/l	100
64) Tetrachloroethene	9.268	164	63537	49.206	ug/l	100
65) Chlorobenzene	10.079	112	224306	51.005	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.158	131	72478	51.203	ug/l	100
67) Ethyl Benzene	10.189	91	396269	51.061	ug/l	100
68) m/p-Xylenes	10.299	106	296507	103.573	ug/l	100
69) o-Xylene	10.640	106	144802	50.409	ug/l	100
70) Styrene	10.652	104	245518	53.051	ug/l	100
71) Bromoform	10.799	173	57417	54.352	ug/l #	100
73) Isopropylbenzene	10.957	105	374776	50.239	ug/l	100
74) N-amyl acetate	10.841	43	176174	52.189	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.207	83	126542	49.364	ug/l	100
76) 1,2,3-Trichloropropane	11.237	75	102508m	49.903	ug/l	
77) Bromobenzene	11.195	156	84448	49.931	ug/l	100
78) n-propylbenzene	11.298	91	437572	50.818	ug/l	100
79) 2-Chlorotoluene	11.359	91	263269	49.749	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	307465	50.789	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	40487	50.701	ug/l	100
82) 4-Chlorotoluene	11.451	91	295844	50.531	ug/l	100
83) tert-Butylbenzene	11.713	119	306830	50.102	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	311205	52.085	ug/l	100
85) sec-Butylbenzene	11.890	105	384155	50.657	ug/l	100
86) p-Isopropyltoluene	12.006	119	315226	51.689	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	155575	50.021	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	156162	49.657	ug/l	100
89) n-Butylbenzene	12.329	91	287649	53.315	ug/l	100
90) Hexachloroethane	12.536	117	56951	49.874	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	154364	50.500	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.938	75	23924	51.135	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	93863	50.747	ug/l	100
94) Hexachlorobutadiene	13.725	225	35481	48.321	ug/l	100
95) Naphthalene	13.774	128	347645	51.995	ug/l	100
96) 1,2,3-Trichlorobenzene	13.956	180	95510	51.245	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044871.D
Acq On : 10 Feb 2025 11:34
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 02:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

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

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

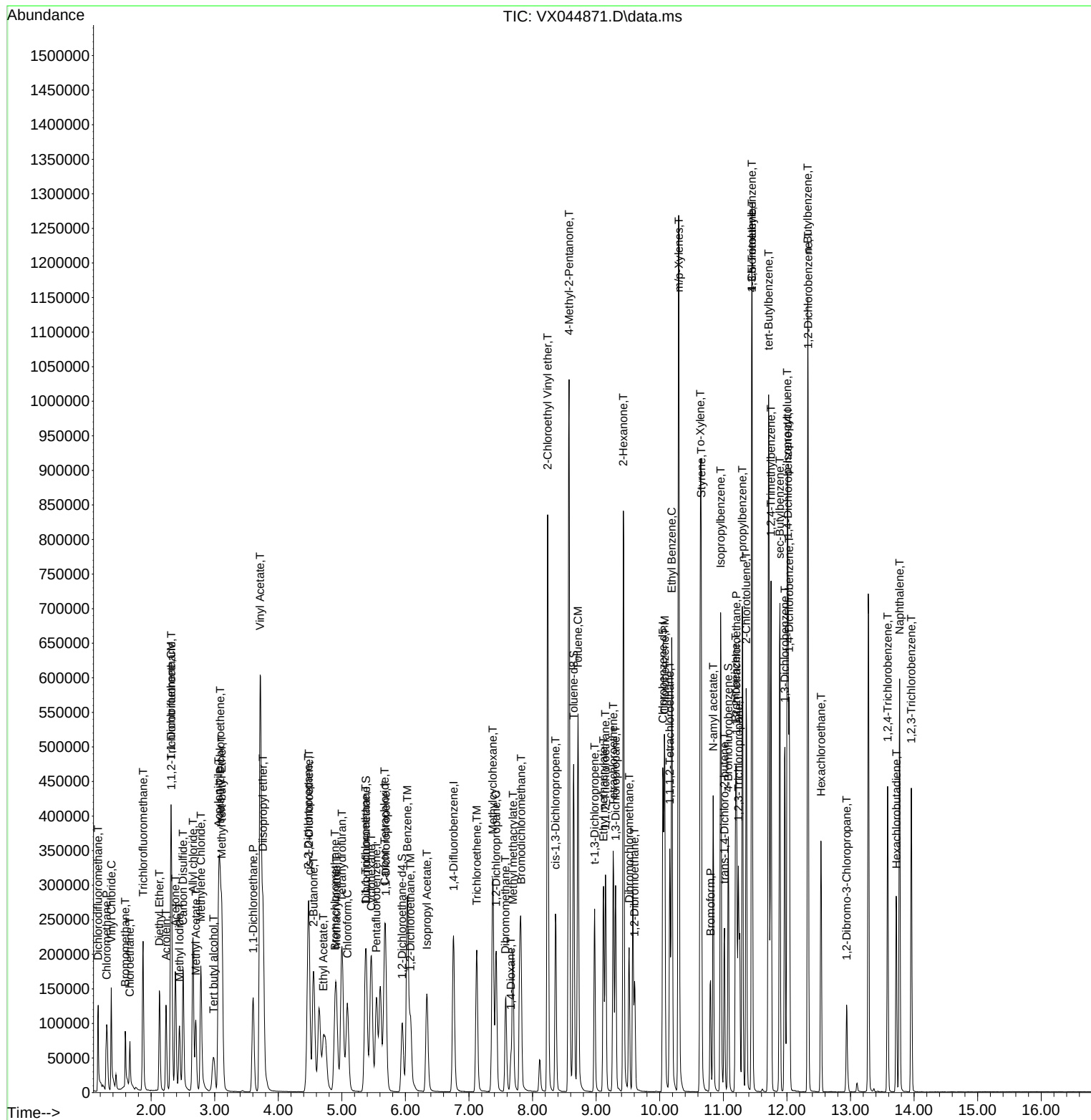
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Data File : VX044871.D
Acq On : 10 Feb 2025 11:34
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

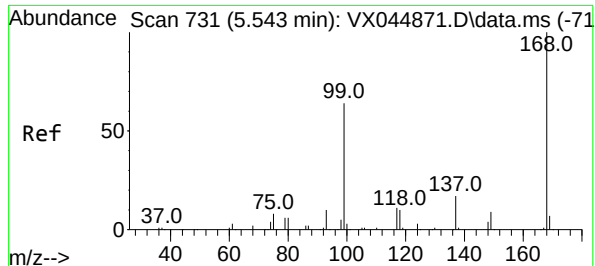
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

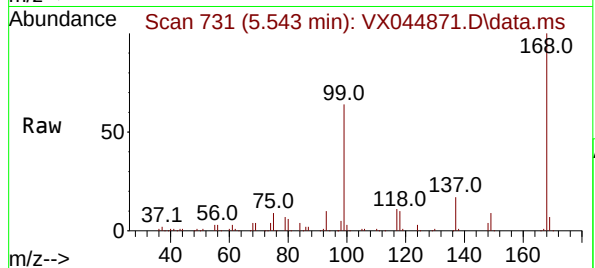
Quant Time: Feb 11 02:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

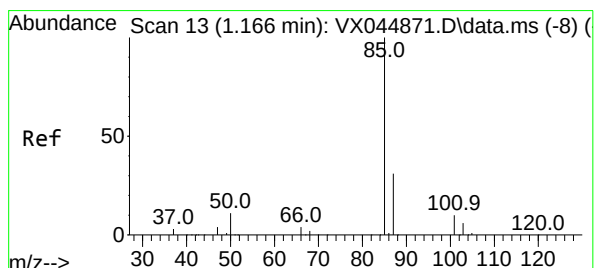
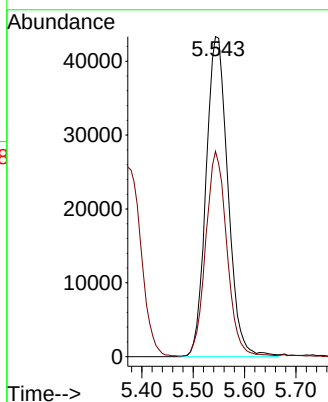
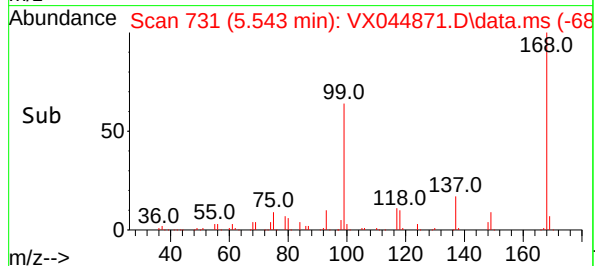
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:168 Resp: 127984
Ion Ratio Lower Upper
168 100
99 64.0 51.2 76.8

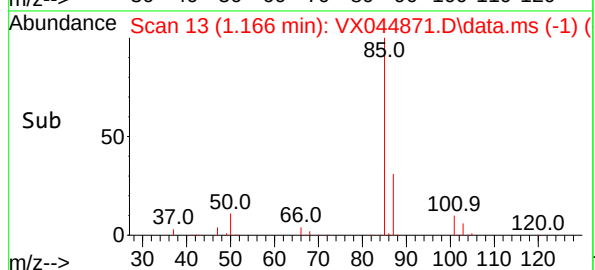
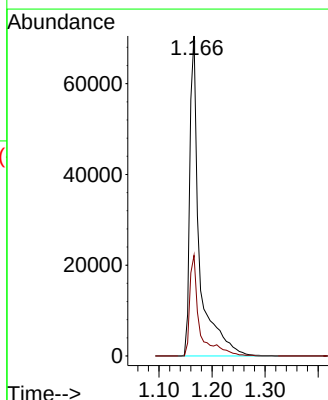
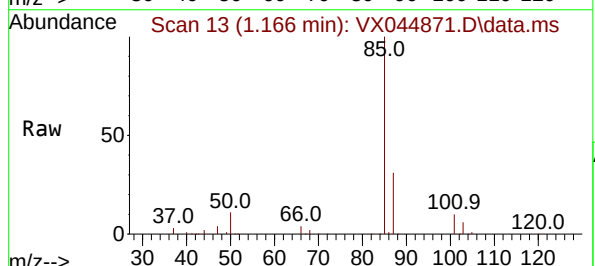
Manual Integrations
APPROVED

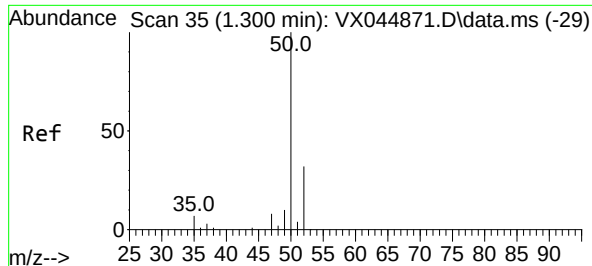
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#2
Dichlorodifluoromethane
Concen: 49.905 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 85 Resp: 89581
Ion Ratio Lower Upper
85 100
87 31.5 15.8 47.3





#3

Chloromethane

Concen: 49.359 ug/l

RT: 1.300 min Scan# 35

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 50 Resp: 107830

Ion Ratio Lower Upper

50 100

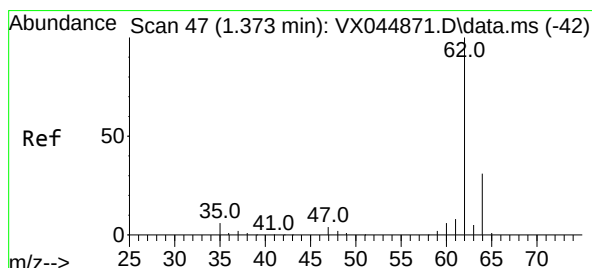
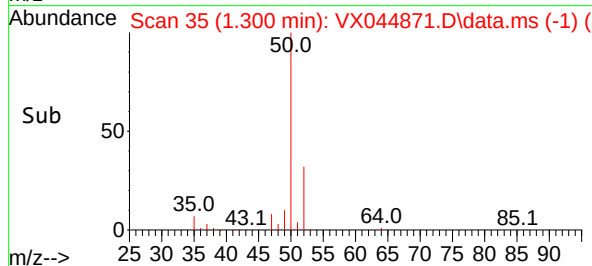
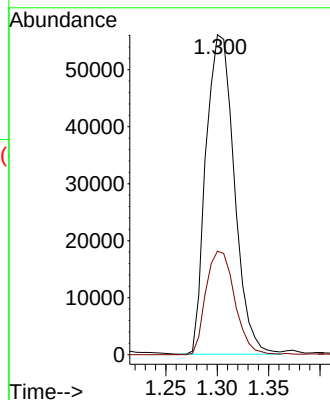
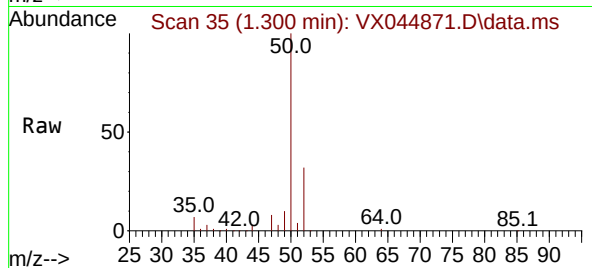
52 32.4 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#4

Vinyl Chloride

Concen: 48.832 ug/l

RT: 1.373 min Scan# 47

Delta R.T. 0.000 min

Lab File: VX044871.D

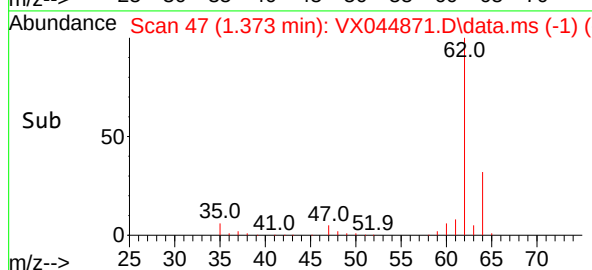
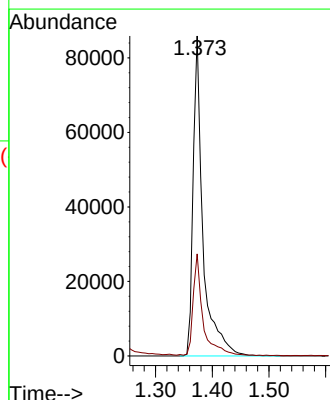
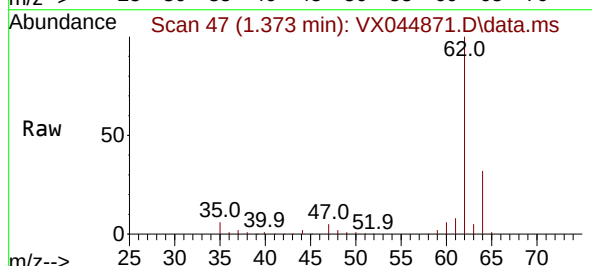
Acq: 10 Feb 2025 11:34

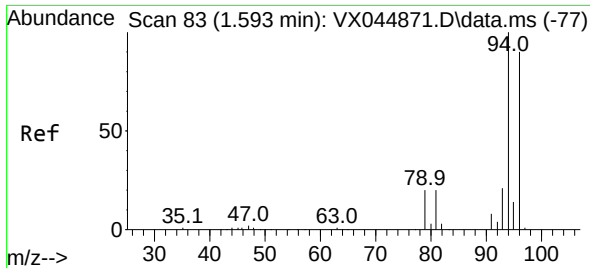
Tgt Ion: 62 Resp: 103354

Ion Ratio Lower Upper

62 100

64 31.7 25.4 38.0





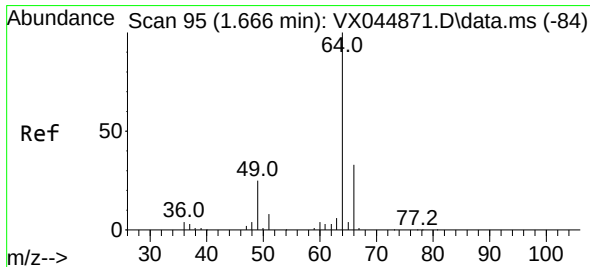
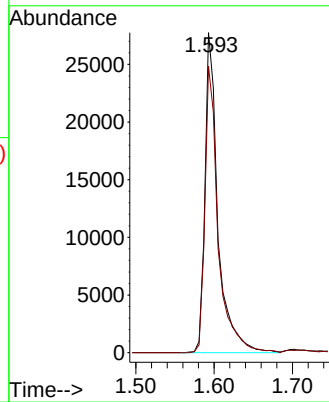
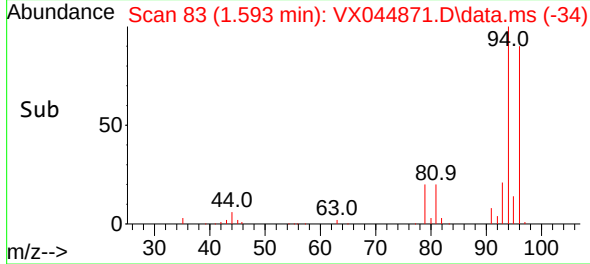
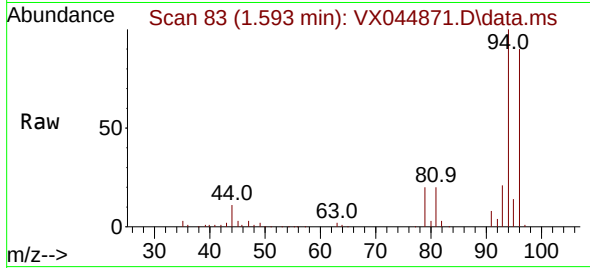
#5
Bromomethane
Concen: 50.345 ug/l
RT: 1.593 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 31880
Ion Ratio Lower Upper
94 100
96 89.5 71.6 107.4

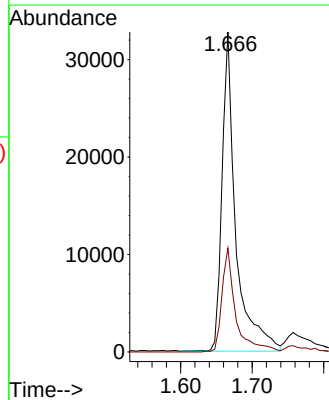
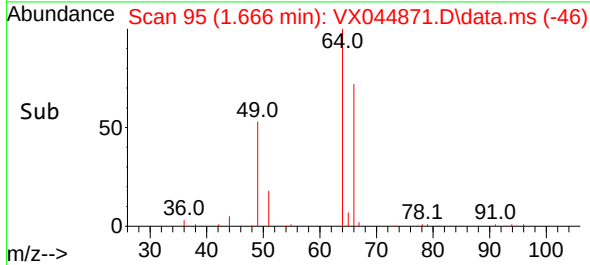
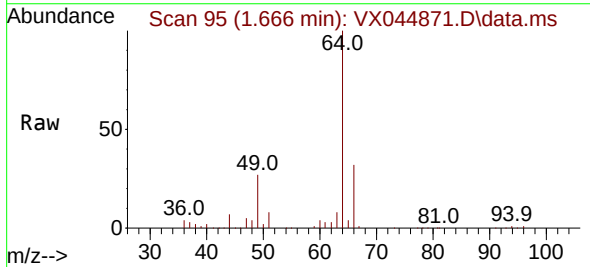
Manual Integrations
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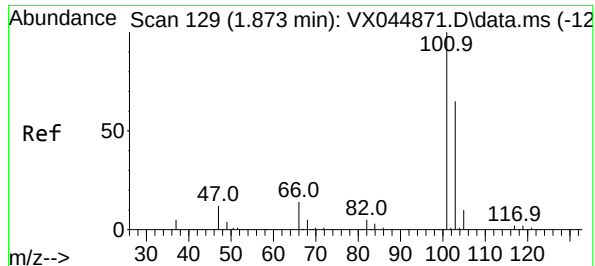
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#6
Chloroethane
Concen: 55.583 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

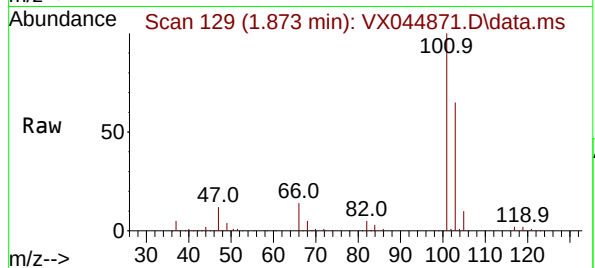
Tgt Ion: 64 Resp: 43657
Ion Ratio Lower Upper
64 100
66 32.5 25.9 38.9





#7
Trichlorofluoromethane
Concen: 49.215 ug/l
RT: 1.873 min Scan# 129
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

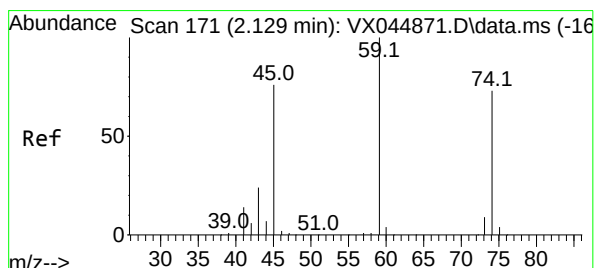
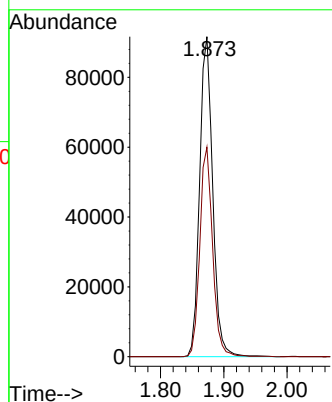
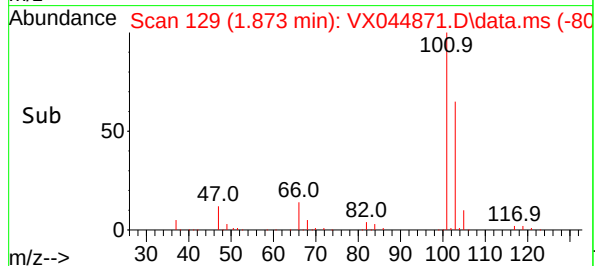
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:101 Resp: 131729
Ion Ratio Lower Upper
101 100
103 65.5 52.4 78.6

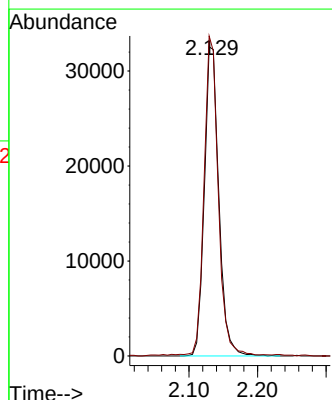
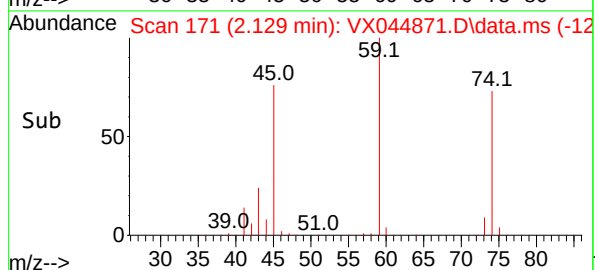
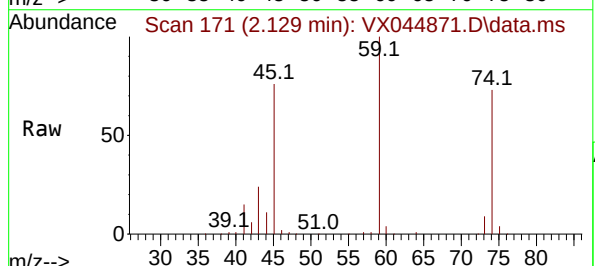
Manual Integrations
APPROVED

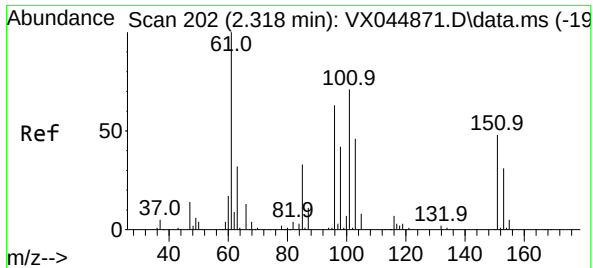
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#8
Diethyl Ether
Concen: 49.473 ug/l
RT: 2.129 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 74 Resp: 48023
Ion Ratio Lower Upper
74 100
45 102.3 51.1 153.4





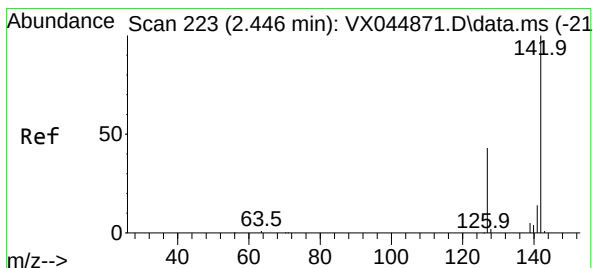
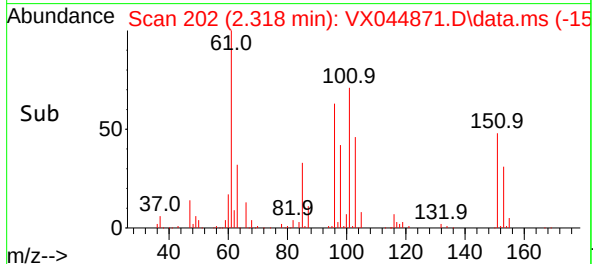
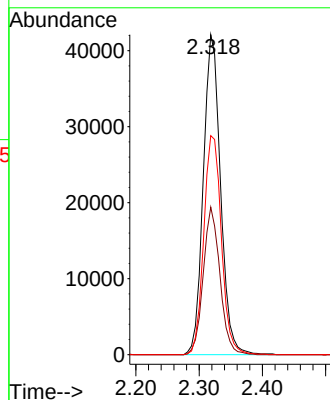
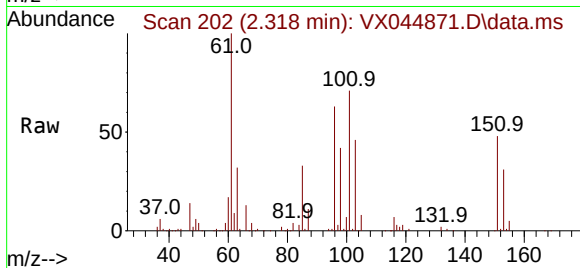
#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.511 ug/l
RT: 2.318 min Scan# 202
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 8006
Ion Ratio Lower Upper
101 100
85 44.6 35.7 53.5
151 70.0 56.0 84.0

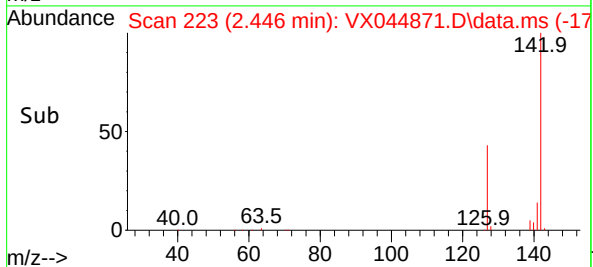
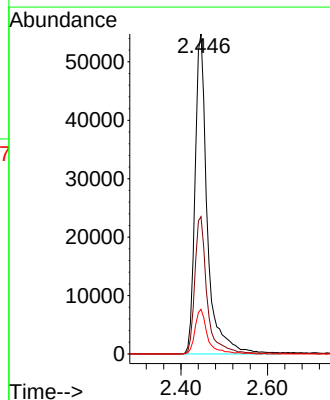
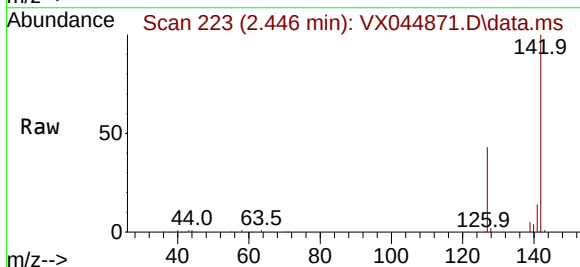
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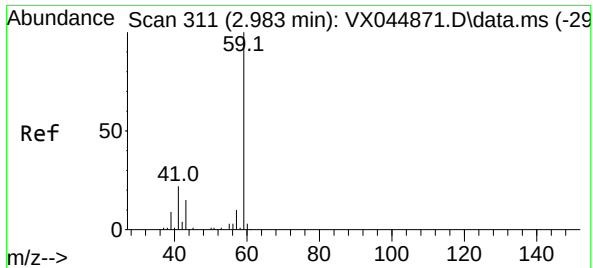
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#10
Methyl Iodide
Concen: 51.712 ug/l
RT: 2.446 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:142 Resp: 108383
Ion Ratio Lower Upper
142 100
127 42.9 34.3 51.5
141 14.3 11.4 17.2





#11

Tert butyl alcohol

Concen: 251.049 ug/l

RT: 2.983 min Scan# 311

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 87254

Ion Ratio Lower Upper

59 100

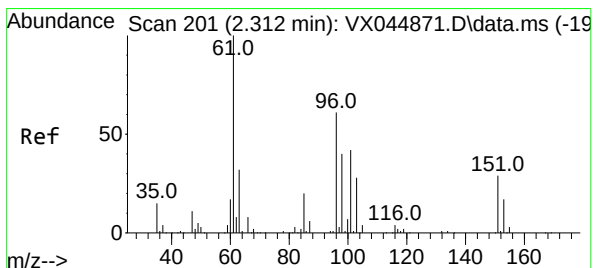
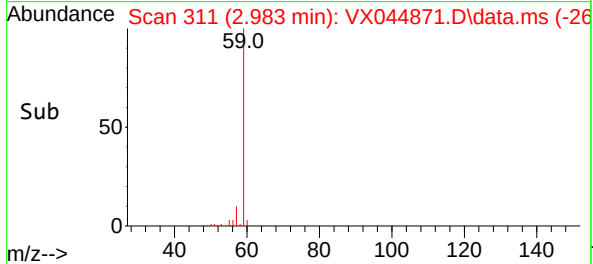
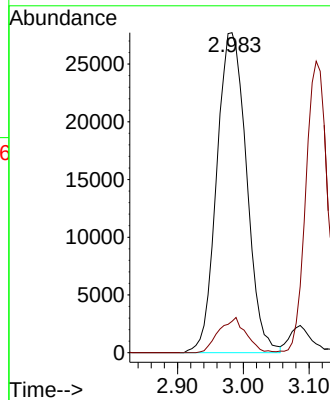
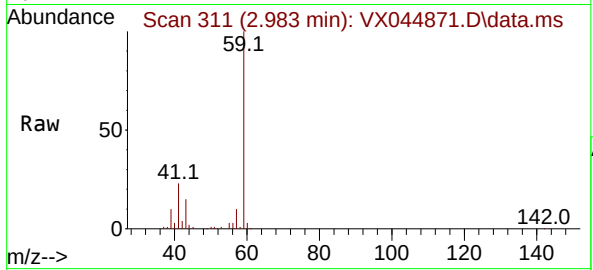
57 10.1 8.1 12.1

Manual Integrations

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Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#12

1,1-Dichloroethene

Concen: 48.904 ug/l

RT: 2.312 min Scan# 201

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

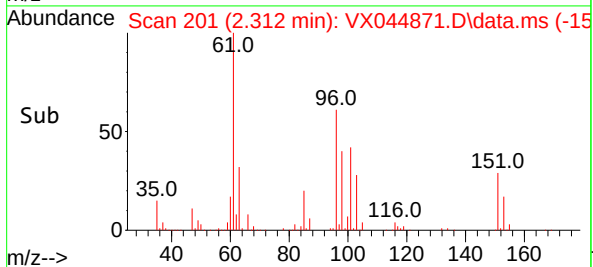
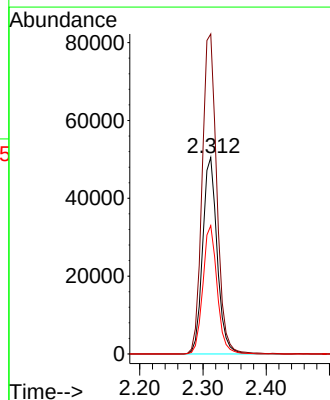
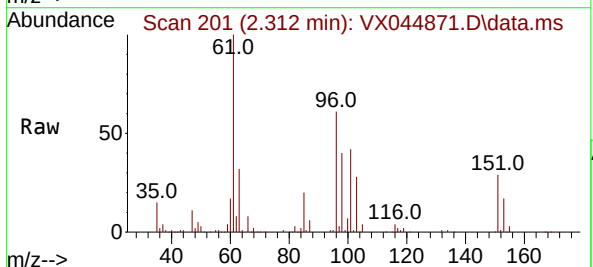
Tgt Ion: 96 Resp: 80672

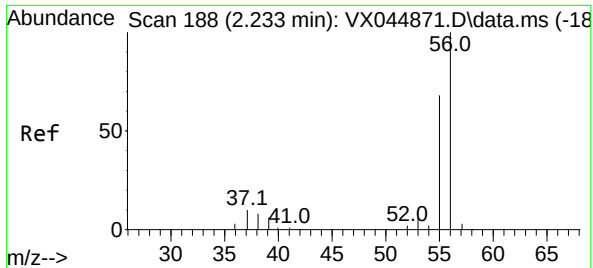
Ion Ratio Lower Upper

96 100

61 162.8 130.2 195.4

98 65.3 52.2 78.4





#13

Acrolein

Concen: 252.426 ug/l

RT: 2.233 min Scan# 188

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 90518

Ion Ratio Lower Upper

56 100

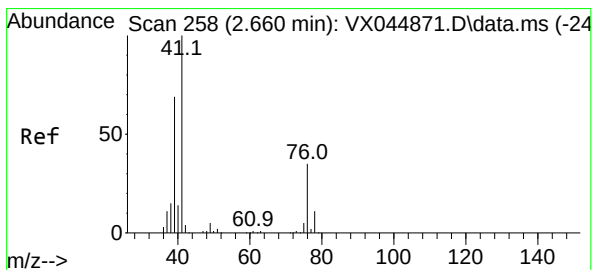
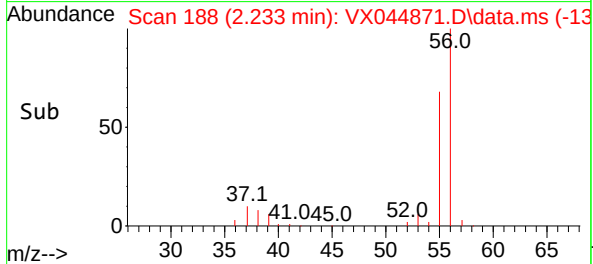
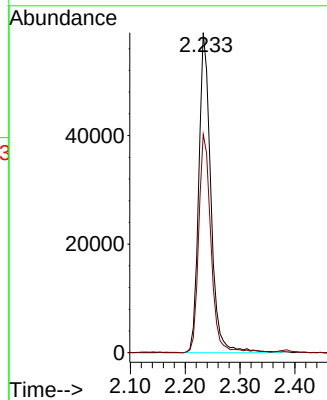
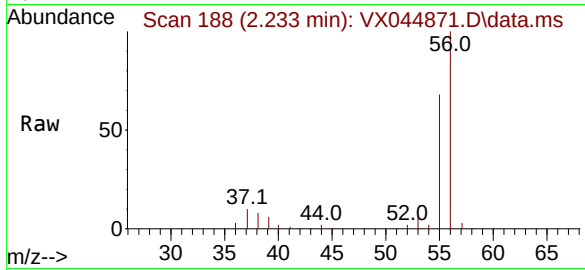
55 69.6 55.7 83.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#14

Allyl chloride

Concen: 49.658 ug/l

RT: 2.660 min Scan# 258

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

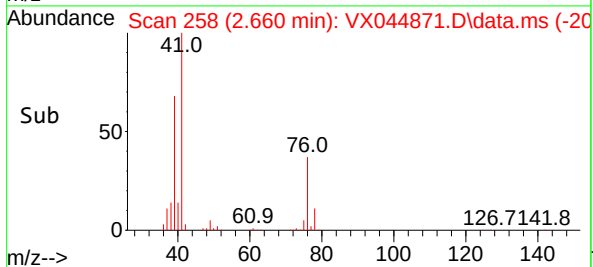
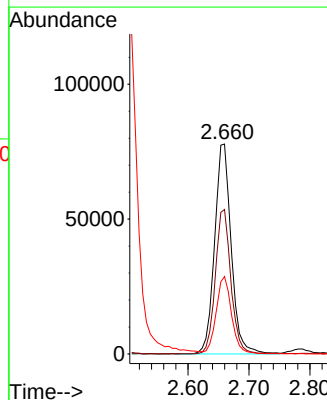
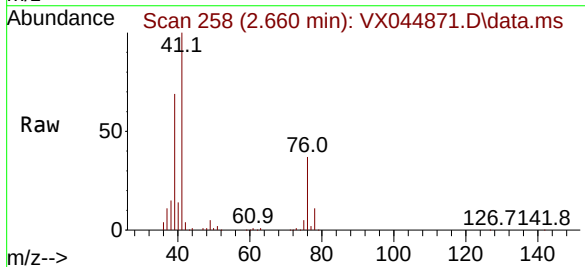
Tgt Ion: 41 Resp: 148044

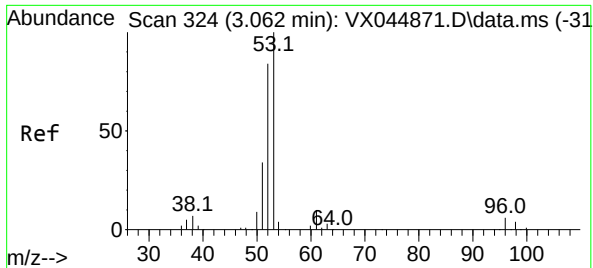
Ion Ratio Lower Upper

41 100

39 64.3 51.4 77.2

76 33.7 27.0 40.4





#15

Acrylonitrile

Concen: 261.074 ug/l

RT: 3.062 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 53 Resp: 242268

Ion Ratio Lower Upper

53 100

52 81.3 65.0 97.6

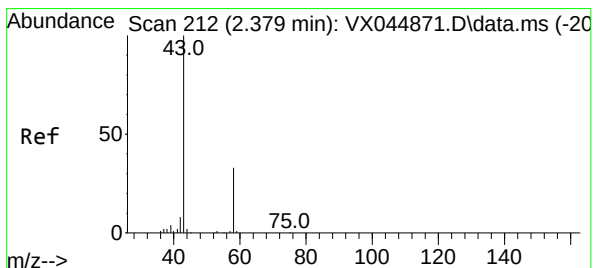
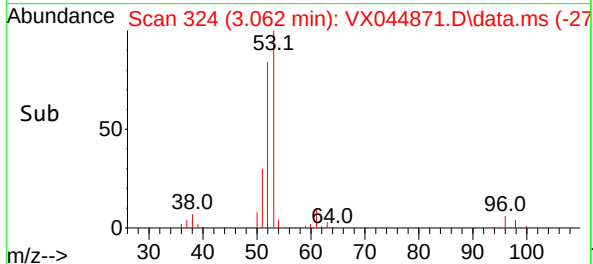
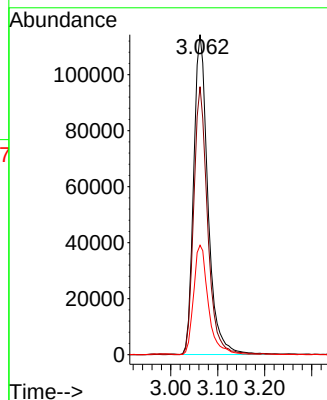
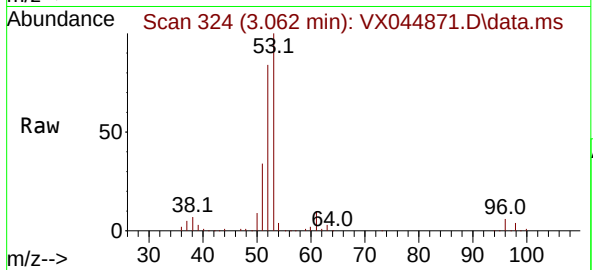
51 35.0 28.0 42.0

Manual Integrations

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Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#16

Acetone

Concen: 249.274 ug/l

RT: 2.379 min Scan# 212

Delta R.T. 0.000 min

Lab File: VX044871.D

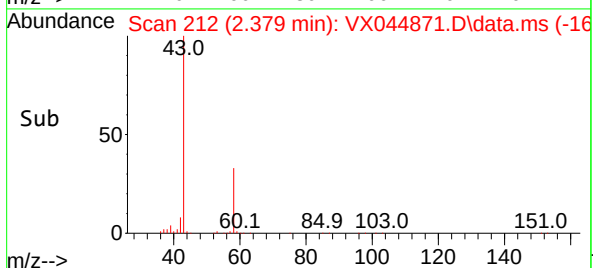
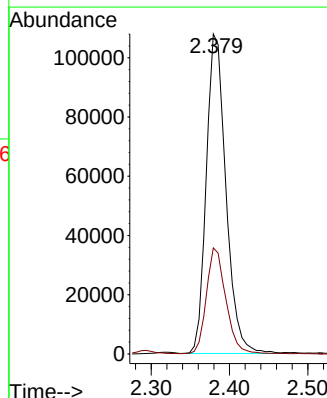
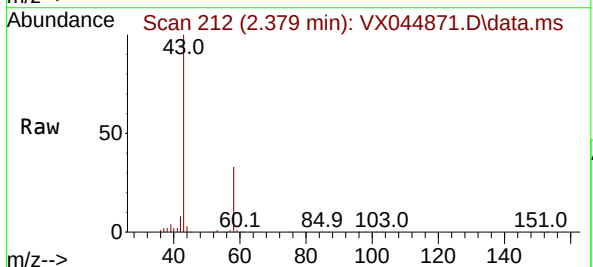
Acq: 10 Feb 2025 11:34

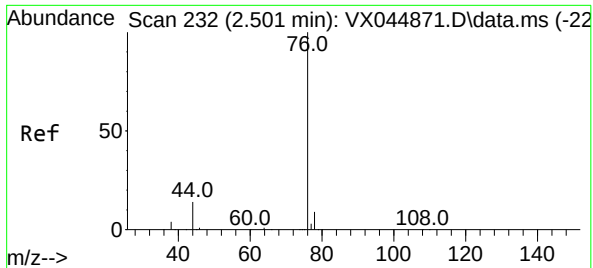
Tgt Ion: 43 Resp: 187739

Ion Ratio Lower Upper

43 100

58 33.1 26.5 39.7





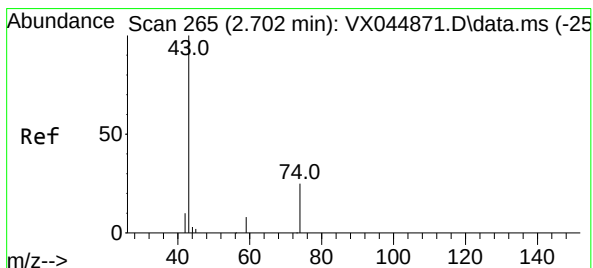
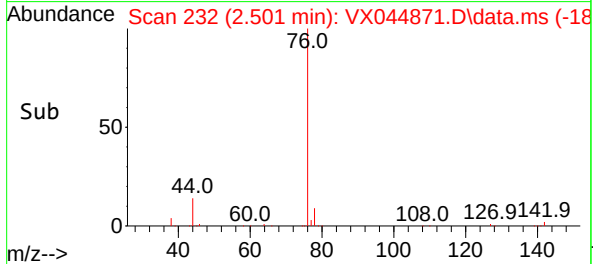
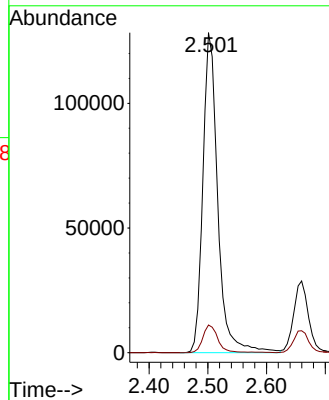
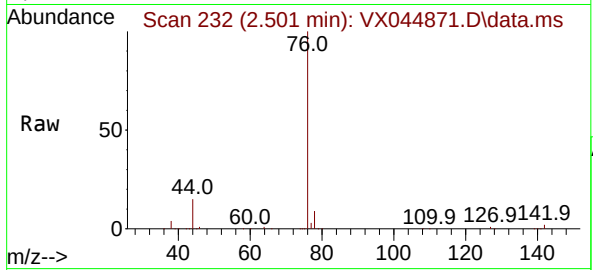
#17
Carbon Disulfide
Concen: 49.853 ug/l
RT: 2.501 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 22551
Ion Ratio Lower Upper
76 100
78 8.7 7.0 10.4

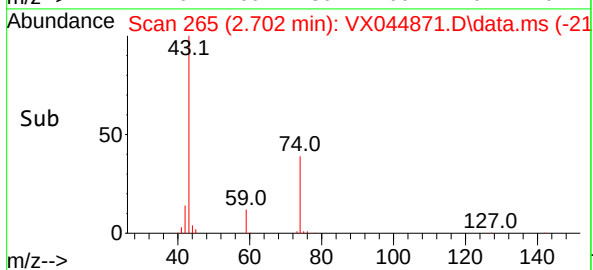
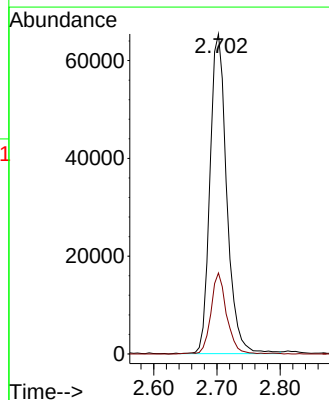
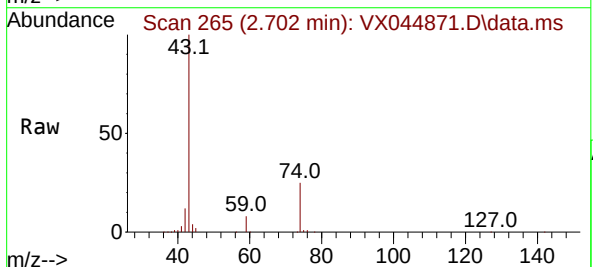
Manual Integrations
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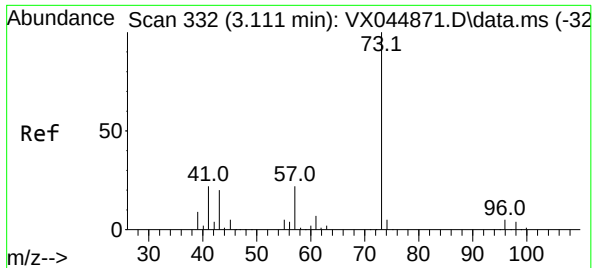
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#18
Methyl Acetate
Concen: 50.928 ug/l
RT: 2.702 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 121039
Ion Ratio Lower Upper
43 100
74 23.6 18.9 28.3





#19

Methyl tert-butyl Ether

Concen: 49.890 ug/l

RT: 3.111 min Scan# 332

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 261852

Ion Ratio Lower Upper

73 100

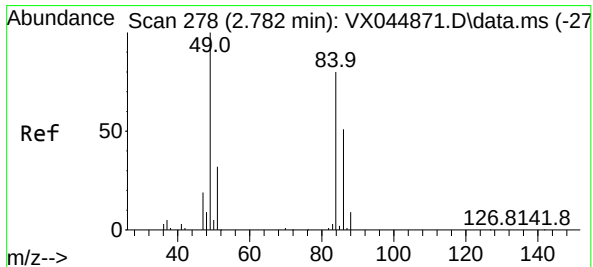
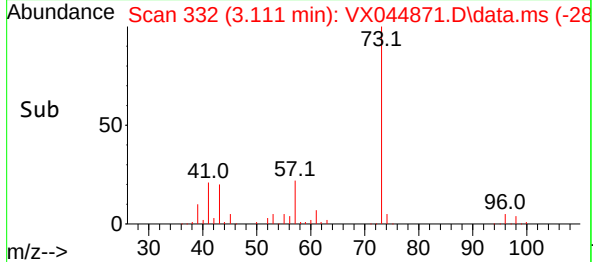
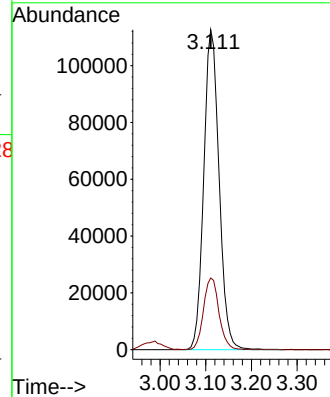
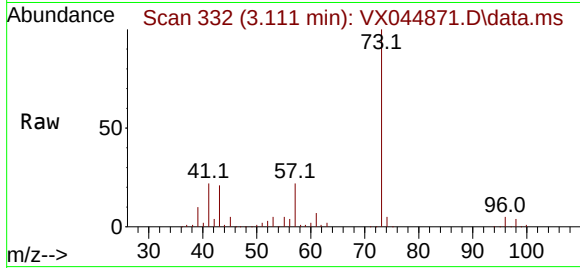
57 22.4 17.9 26.9

Manual Integrations

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Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#20

Methylene Chloride

Concen: 48.808 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Tgt Ion: 84 Resp: 90038

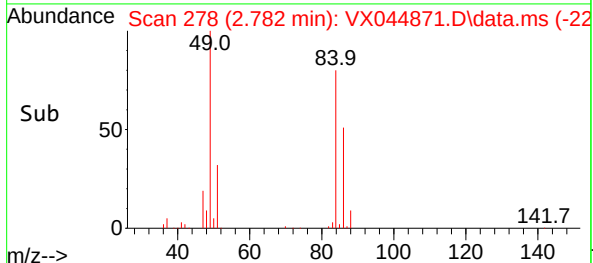
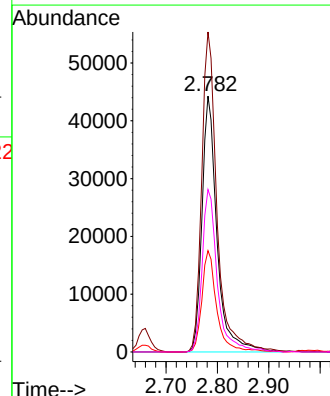
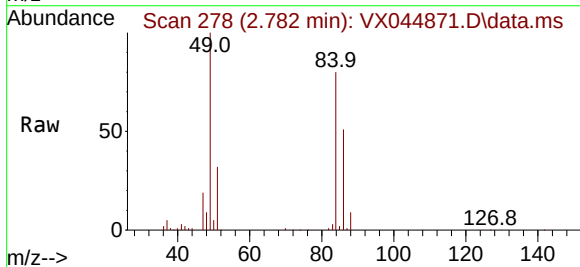
Ion Ratio Lower Upper

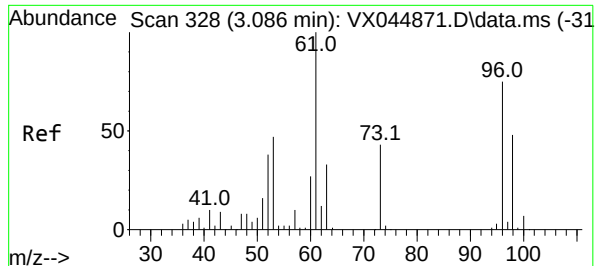
84 100

49 125.1 100.1 150.1

51 39.6 31.7 47.5

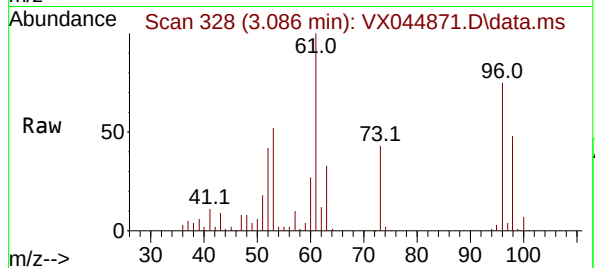
86 63.5 50.8 76.2





#21
trans-1,2-Dichloroethene
Concen: 50.475 ug/l
RT: 3.086 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

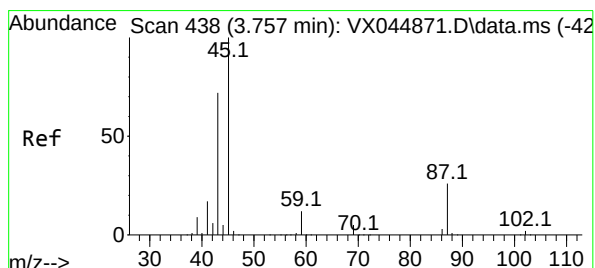
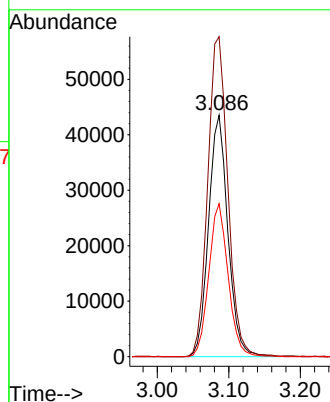
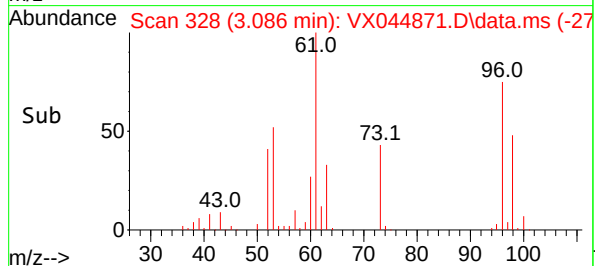
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 96 Resp: 81950
Ion Ratio Lower Upper
96 100
61 132.5 106.0 159.0
98 63.3 50.6 76.0

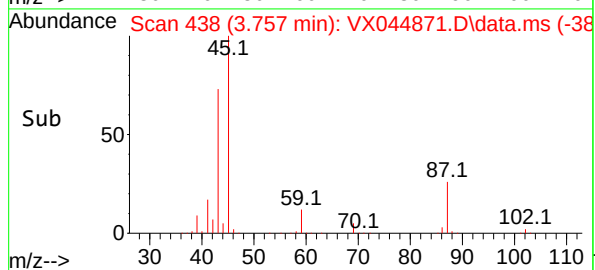
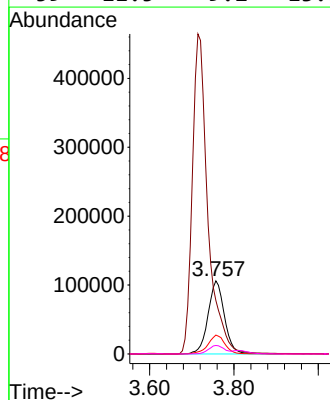
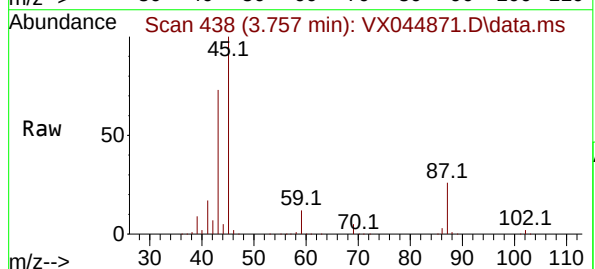
Manual Integrations
APPROVED

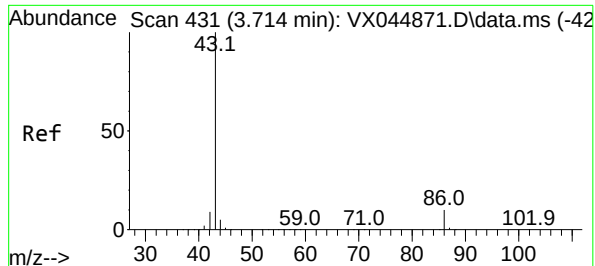
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#22
Diisopropyl ether
Concen: 50.946 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 45 Resp: 287347
Ion Ratio Lower Upper
45 100
43 72.5 58.0 87.0
87 25.9 20.7 31.1
59 11.5 9.2 13.8





#23

Vinyl Acetate

Concen: 258.830 ug/l

RT: 3.714 min Scan# 41

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 119015

Ion Ratio Lower Upper

43 100

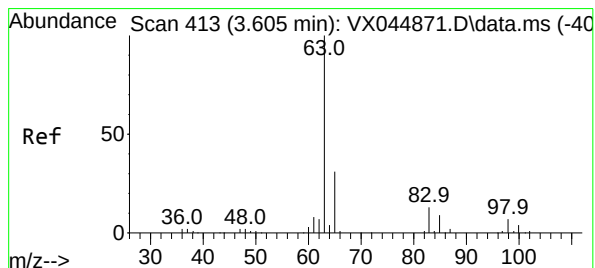
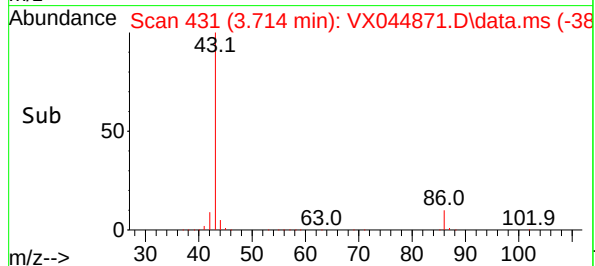
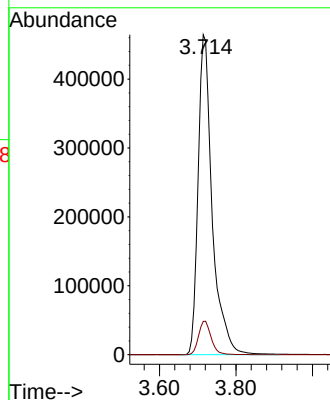
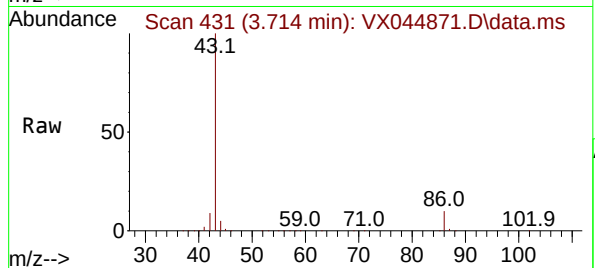
86 10.4 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#24

1,1-Dichloroethane

Concen: 49.749 ug/l

RT: 3.605 min Scan# 413

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

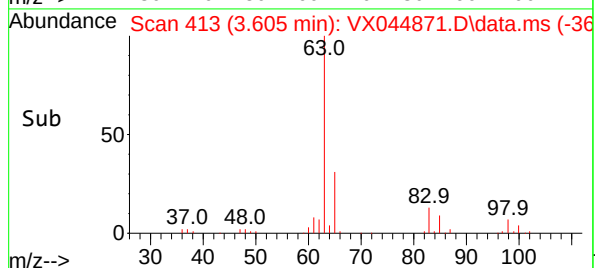
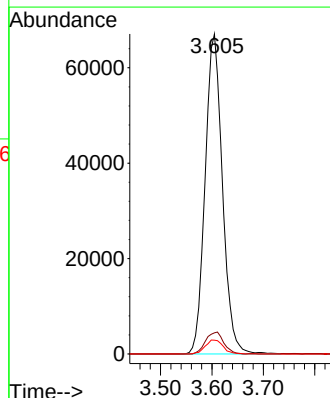
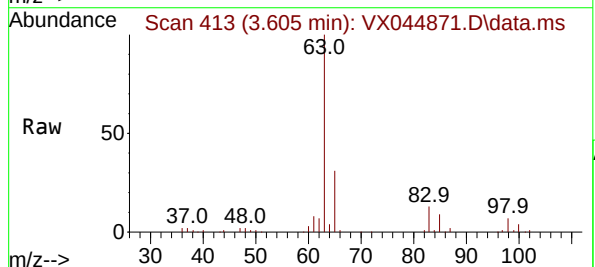
Tgt Ion: 63 Resp: 157003

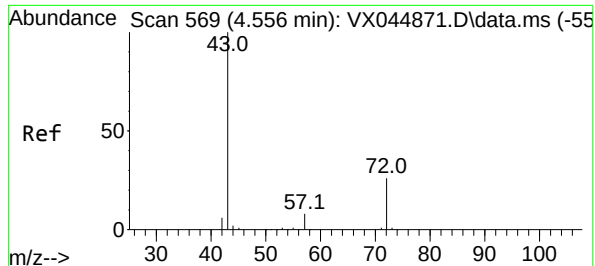
Ion Ratio Lower Upper

63 100

98 6.6 3.3 9.9

100 4.3 2.1 6.5





#25

2-Butanone

Concen: 264.528 ug/l

RT: 4.556 min Scan# 569

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 323510

Ion Ratio Lower Upper

43 100

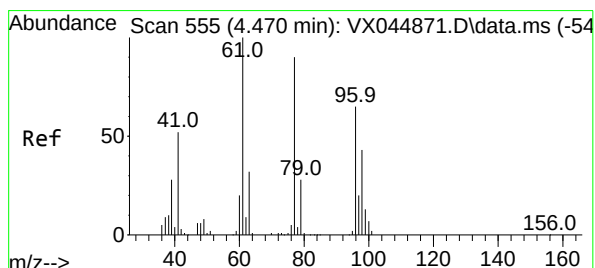
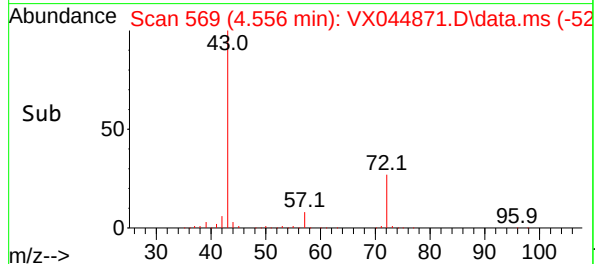
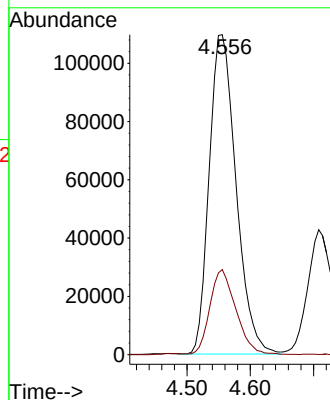
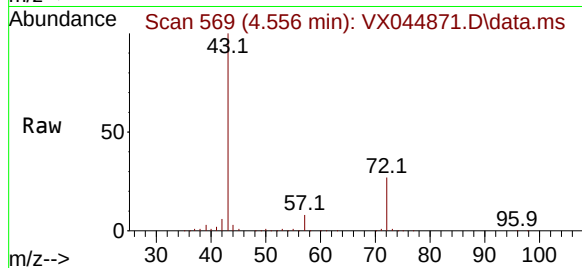
72 26.5 21.2 31.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#26

2,2-Dichloropropane

Concen: 48.707 ug/l

RT: 4.470 min Scan# 555

Delta R.T. 0.000 min

Lab File: VX044871.D

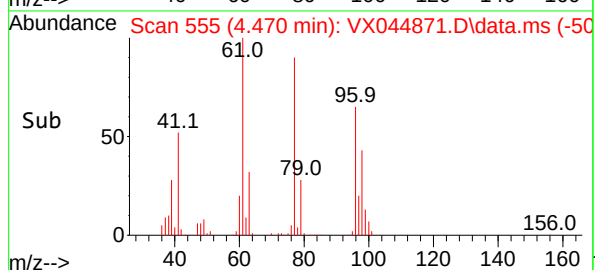
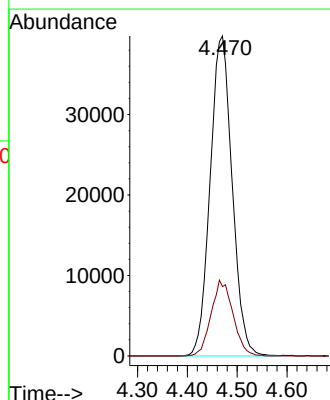
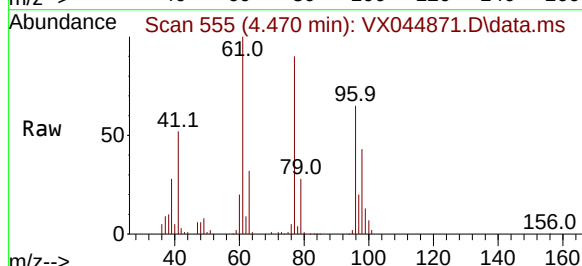
Acq: 10 Feb 2025 11:34

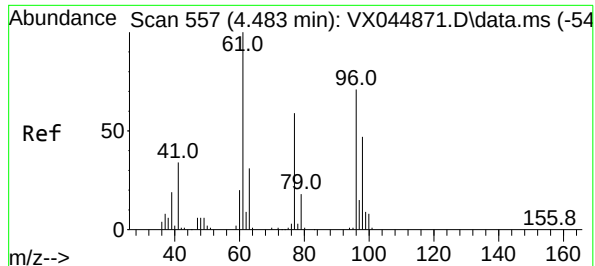
Tgt Ion: 77 Resp: 121901

Ion Ratio Lower Upper

77 100

97 23.5 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 49.721 ug/l

RT: 4.483 min Scan# 511

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 9696

Ion Ratio Lower Upper

96 100

61 147.0 0.0 294.0

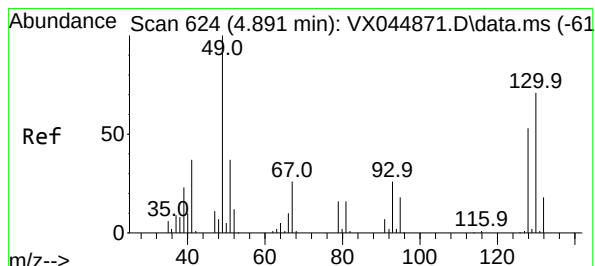
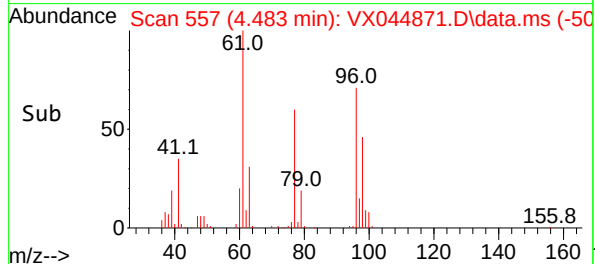
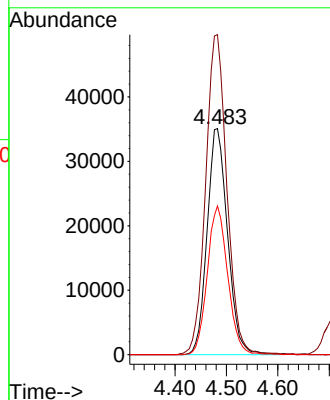
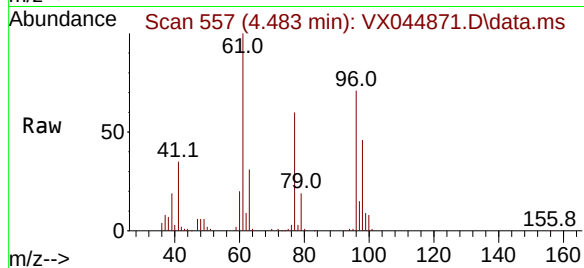
98 65.6 0.0 131.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#28

Bromochloromethane

Concen: 49.258 ug/l

RT: 4.891 min Scan# 624

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

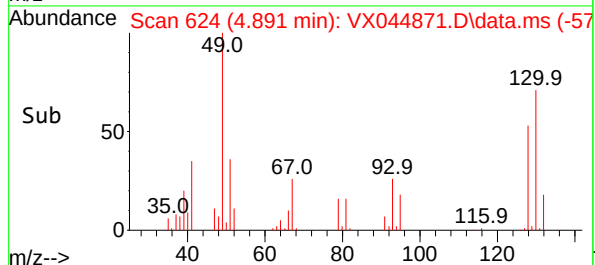
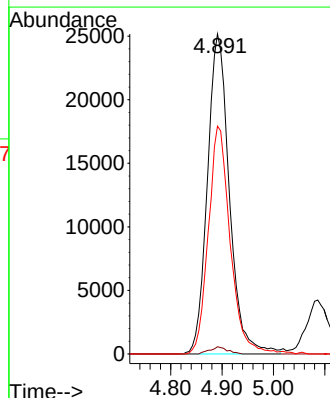
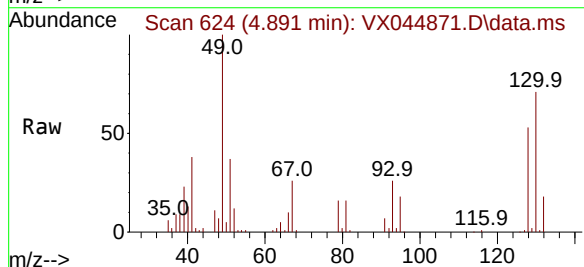
Tgt Ion: 49 Resp: 74707

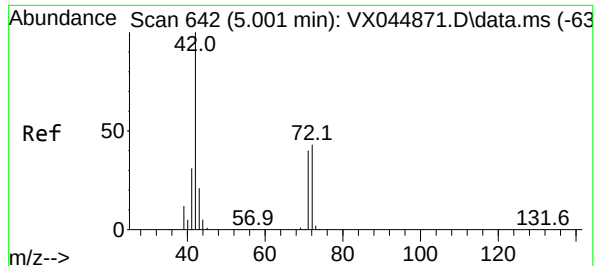
Ion Ratio Lower Upper

49 100

129 1.8 0.0 3.6

130 70.9 56.7 85.1





#29

Tetrahydrofuran

Concen: 259.105 ug/l

RT: 5.001 min Scan# 642

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 42 Resp: 210414

Ion Ratio Lower Upper

42 100

72 43.7 35.0 52.4

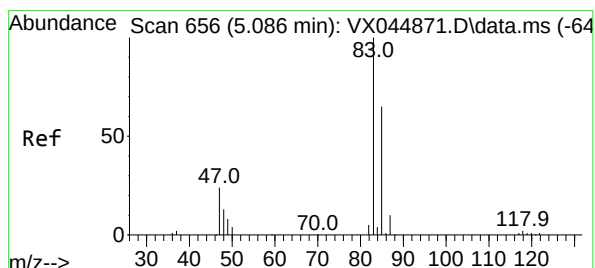
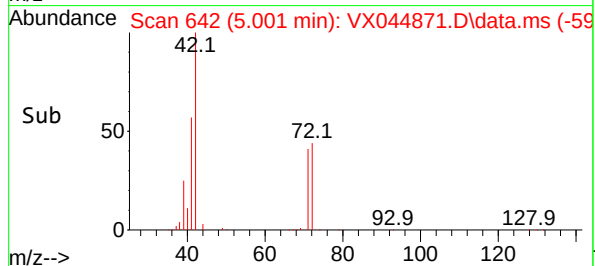
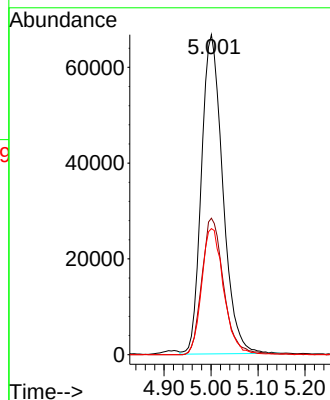
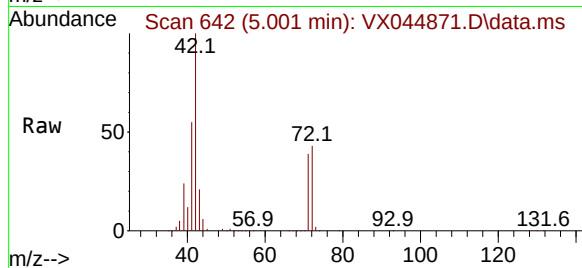
71 40.7 32.6 48.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#30

Chloroform

Concen: 48.874 ug/l

RT: 5.086 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX044871.D

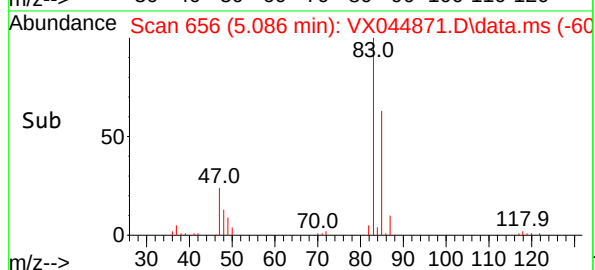
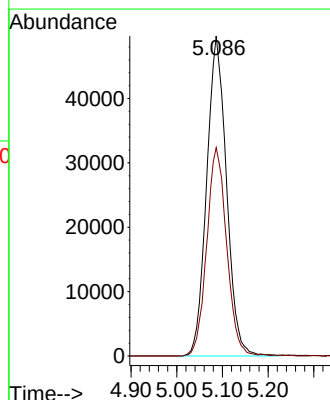
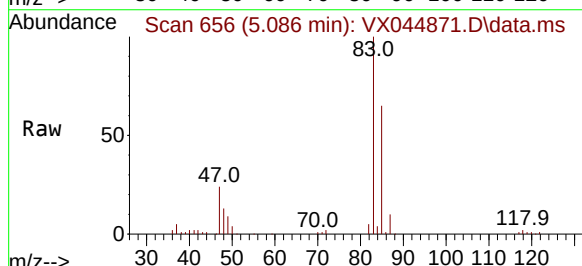
Acq: 10 Feb 2025 11:34

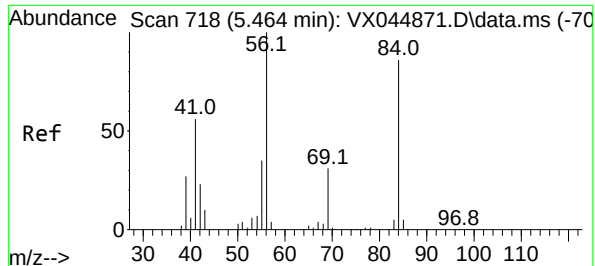
Tgt Ion: 83 Resp: 149581

Ion Ratio Lower Upper

83 100

85 65.1 52.1 78.1





#31

Cyclohexane

Concen: 49.322 ug/l

RT: 5.464 min Scan# 718

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 143500

Ion Ratio Lower Upper

56 100

69 30.5 24.4 36.6

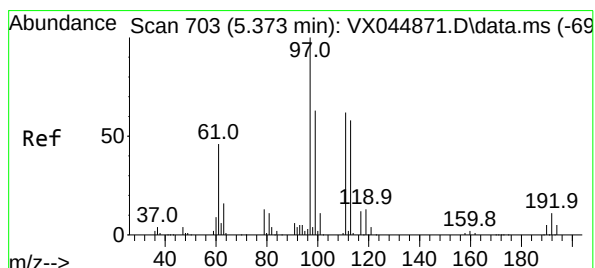
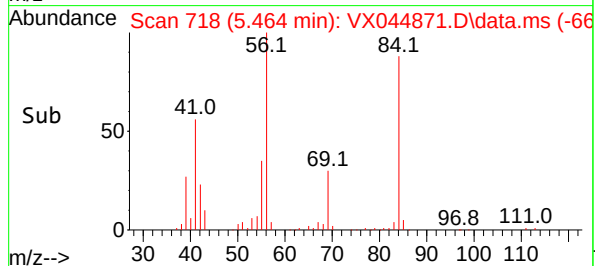
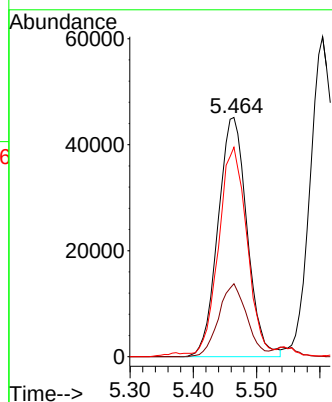
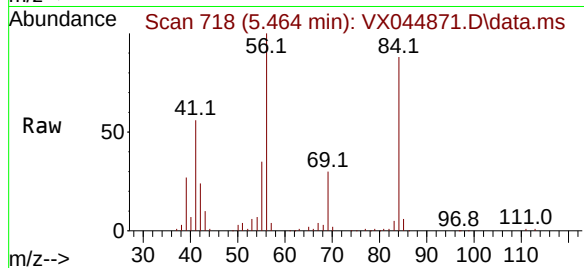
84 86.3 69.0 103.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#32

1,1,1-Trichloroethane

Concen: 49.523 ug/l

RT: 5.373 min Scan# 703

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

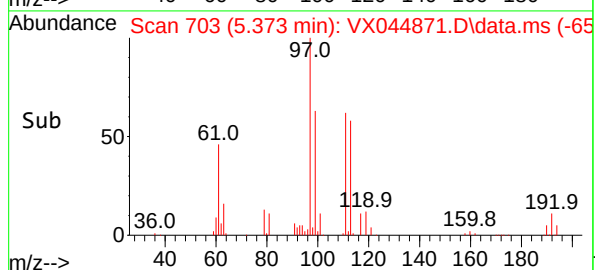
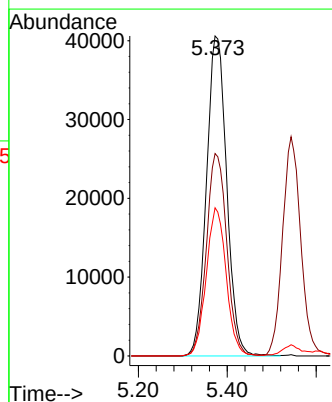
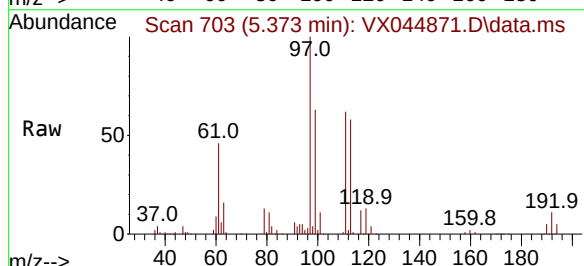
Tgt Ion: 97 Resp: 128561

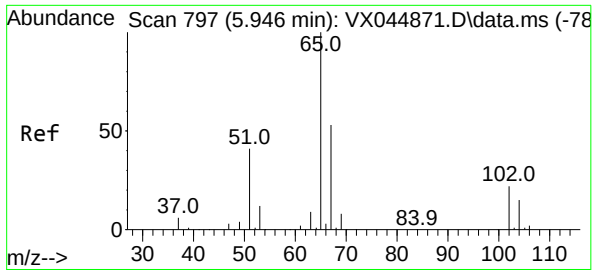
Ion Ratio Lower Upper

97 100

99 63.8 51.0 76.6

61 45.8 36.6 55.0





#33

1,2-Dichloroethane-d4

Concen: 49.424 ug/l

RT: 5.946 min Scan# 797

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 9259

Ion Ratio Lower Upper

65 100

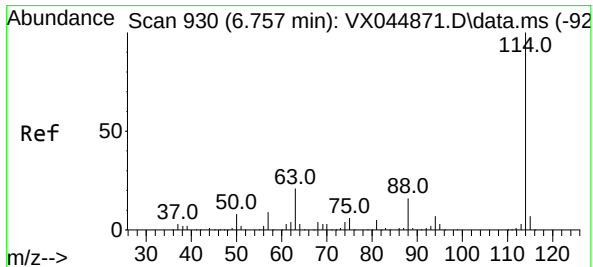
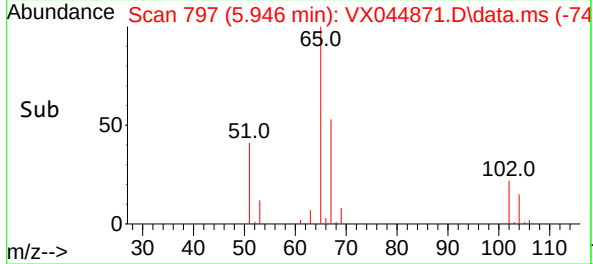
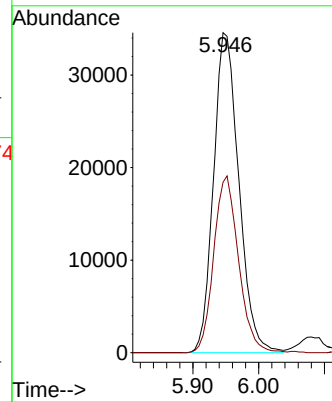
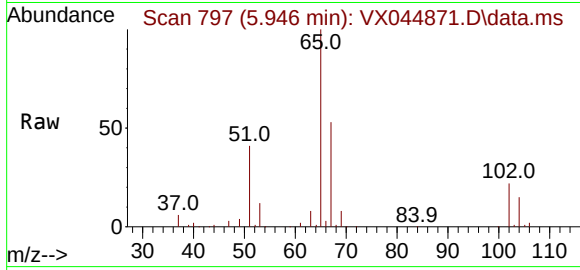
67 54.1 0.0 108.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

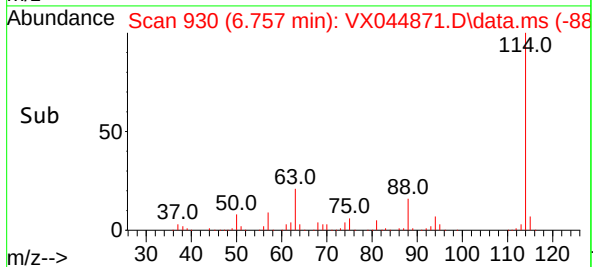
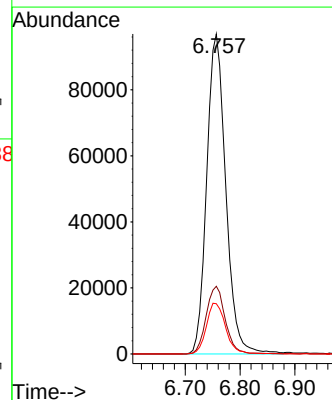
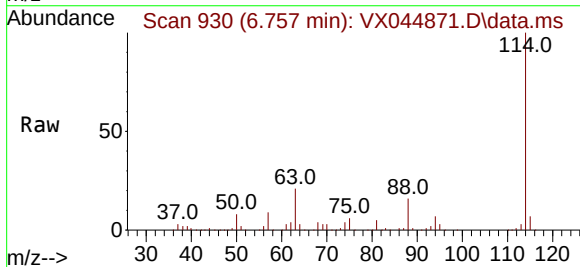
Tgt Ion:114 Resp: 233736

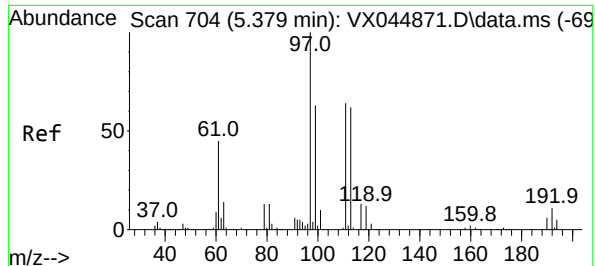
Ion Ratio Lower Upper

114 100

63 21.2 0.0 42.4

88 15.7 0.0 31.4





#35

Dibromofluoromethane

Concen: 49.291 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:113 Resp: 74900

Ion Ratio Lower Upper

113 100

111 104.4 83.5 125.3

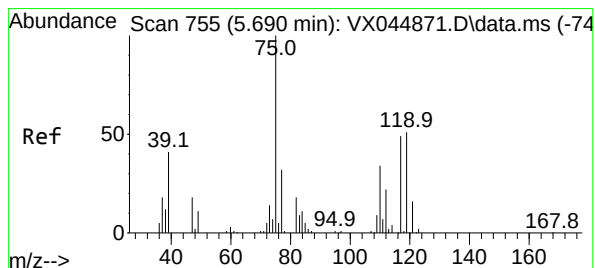
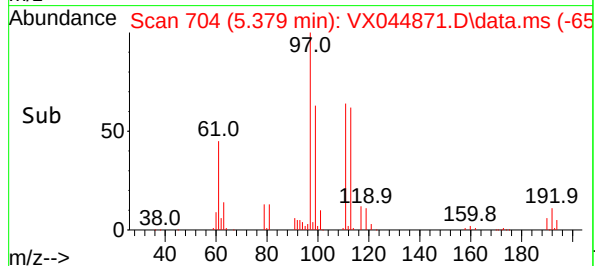
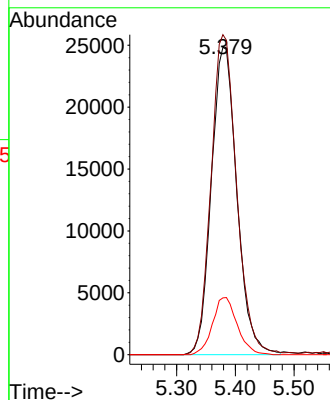
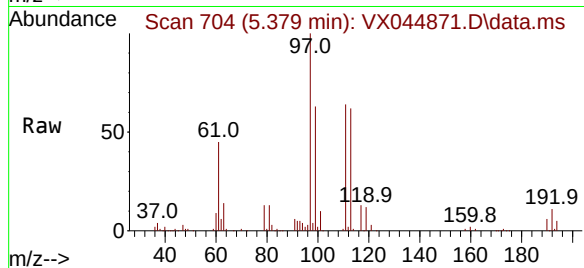
192 18.0 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#36

1,1-Dichloropropene

Concen: 49.353 ug/l

RT: 5.690 min Scan# 755

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

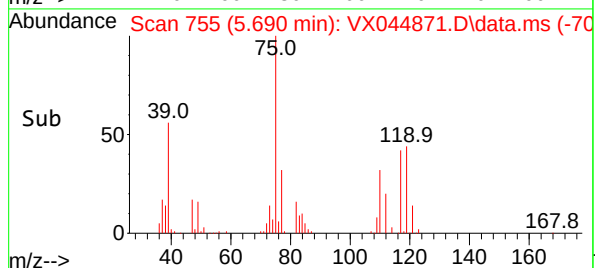
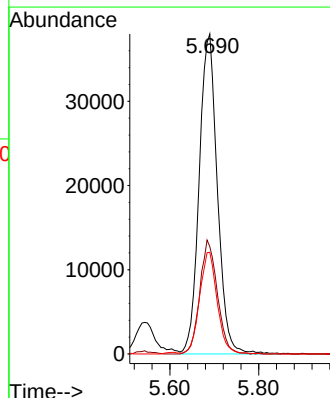
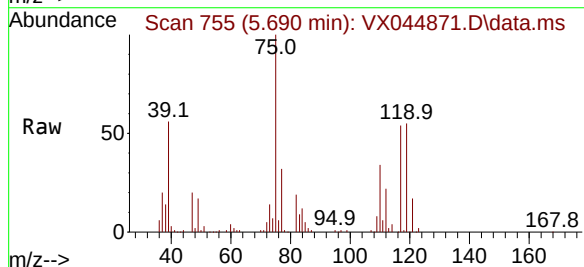
Tgt Ion: 75 Resp: 108206

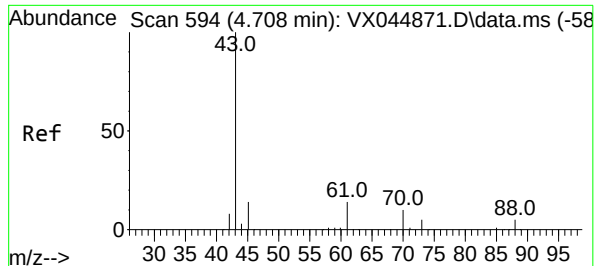
Ion Ratio Lower Upper

75 100

110 34.4 17.2 51.6

77 30.8 24.6 37.0





#37

Ethyl Acetate

Concen: 50.535 ug/l

RT: 4.708 min Scan# 594

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 123238

Ion Ratio Lower Upper

43 100

61 13.7 11.0 16.4

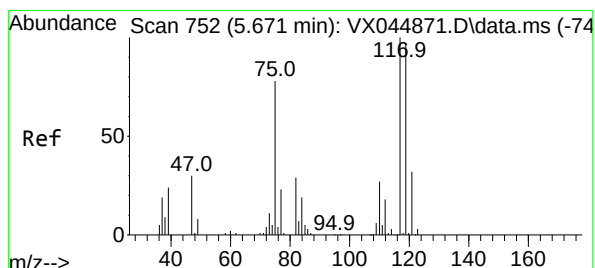
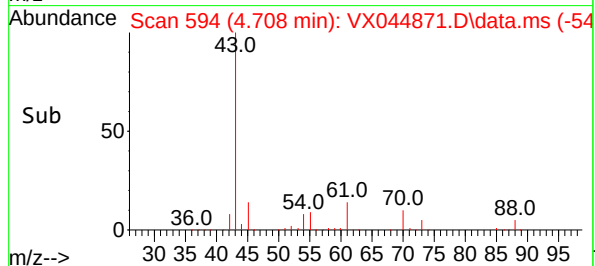
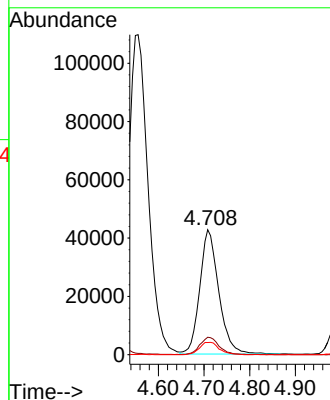
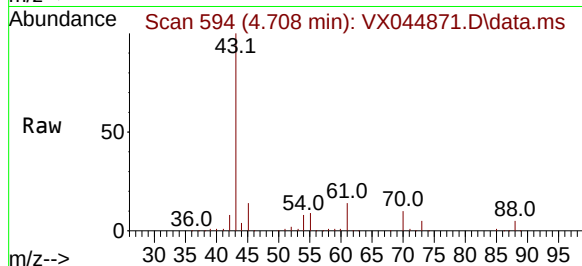
70 10.2 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#38

Carbon Tetrachloride

Concen: 49.277 ug/l

RT: 5.671 min Scan# 752

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

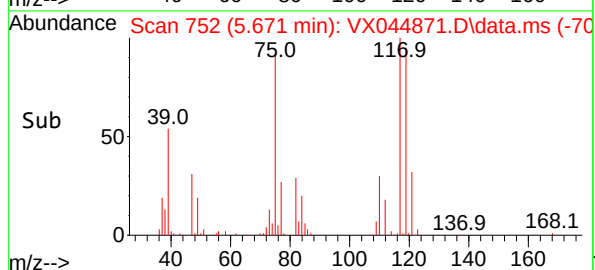
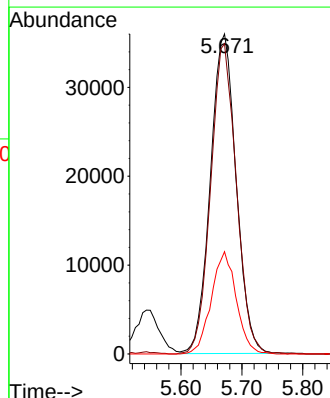
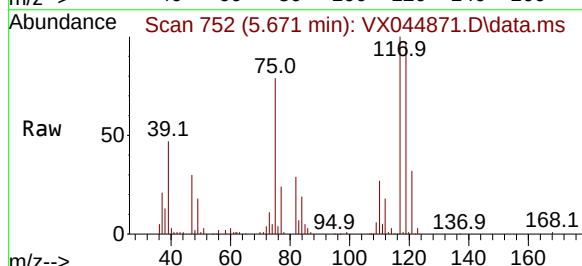
Tgt Ion:117 Resp: 105873

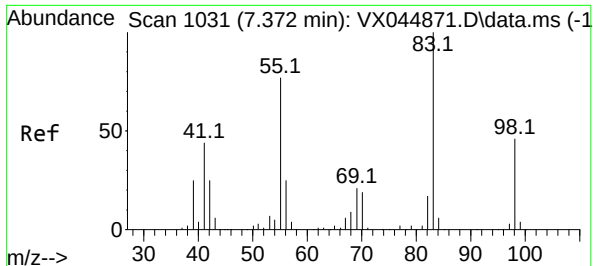
Ion Ratio Lower Upper

117 100

119 96.9 77.5 116.3

121 32.0 25.6 38.4





#39

Methylcyclohexane

Concen: 51.274 ug/l

RT: 7.372 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 145338

Ion Ratio Lower Upper

83 100

55 76.6 61.3 91.9

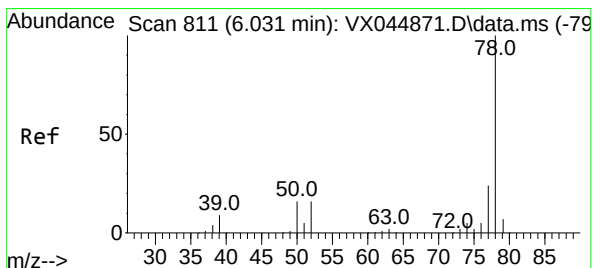
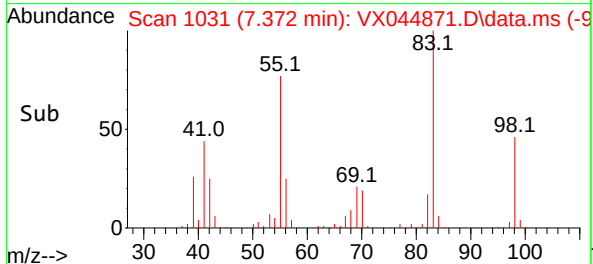
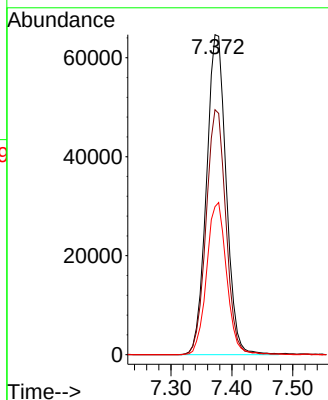
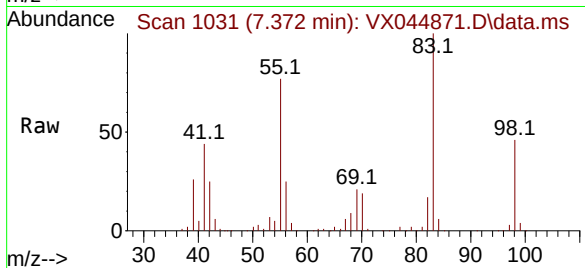
98 46.3 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#40

Benzene

Concen: 50.182 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX044871.D

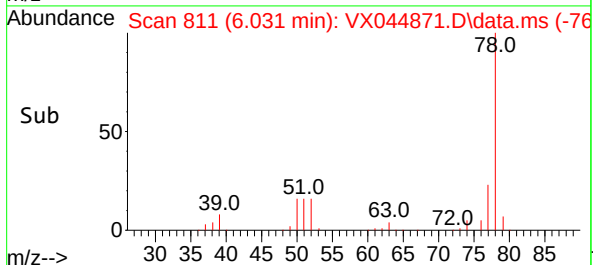
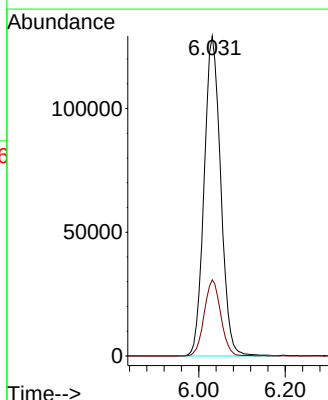
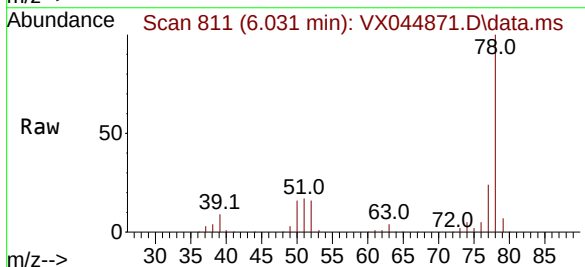
Acq: 10 Feb 2025 11:34

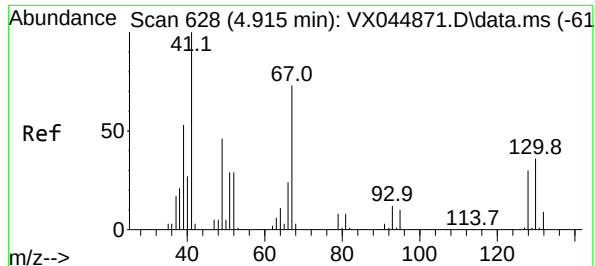
Tgt Ion: 78 Resp: 343557

Ion Ratio Lower Upper

78 100

77 23.8 19.0 28.6





#41

Methacrylonitrile

Concen: 54.065 ug/l

RT: 4.915 min Scan# 61

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 41 Resp: 70572

Ion Ratio Lower Upper

41 100

39 53.9 43.1 64.7

67 71.3 57.0 85.6

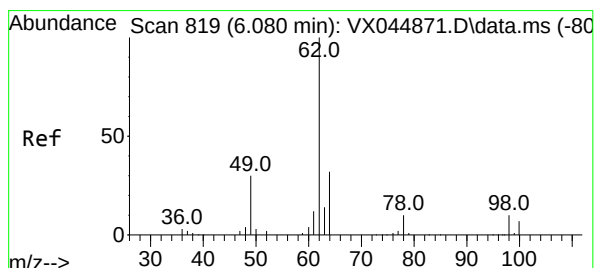
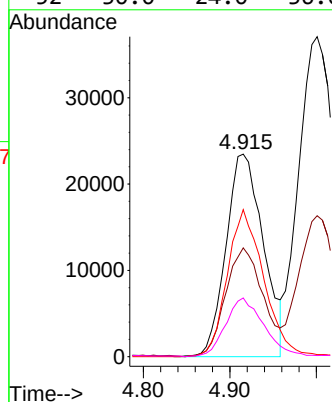
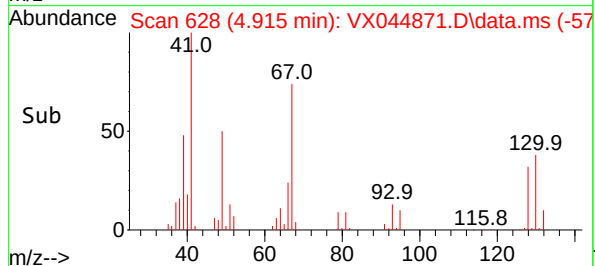
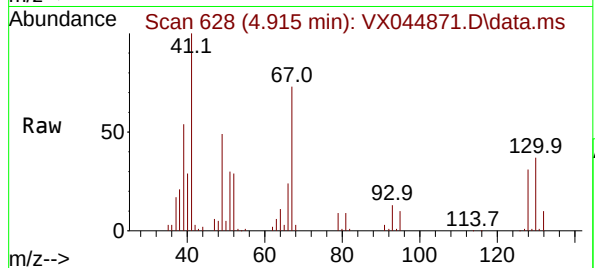
52 30.0 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#42

1,2-Dichloroethane

Concen: 50.573 ug/l

RT: 6.080 min Scan# 819

Delta R.T. 0.000 min

Lab File: VX044871.D

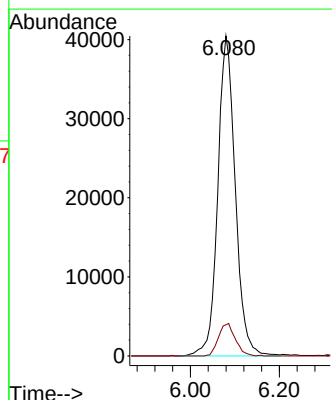
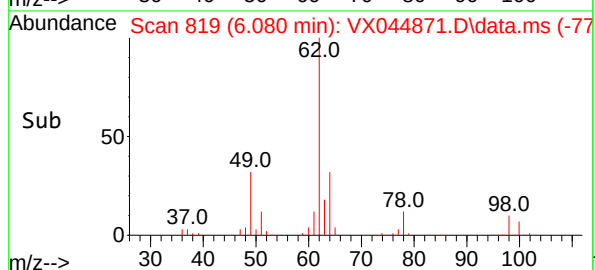
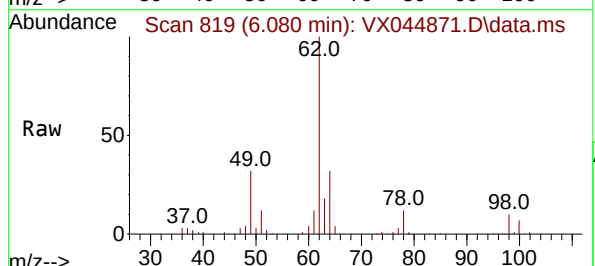
Acq: 10 Feb 2025 11:34

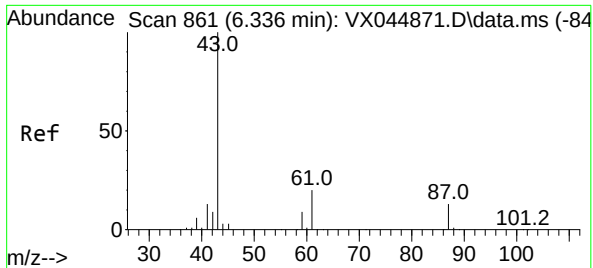
Tgt Ion: 62 Resp: 110347

Ion Ratio Lower Upper

62 100

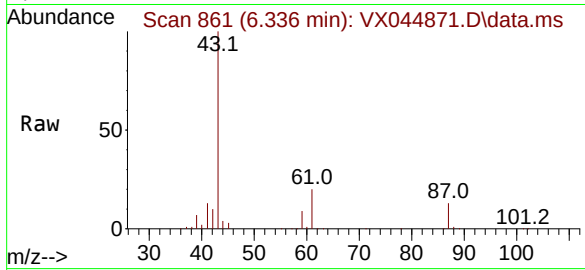
98 9.7 0.0 19.4





#43
Isopropyl Acetate
Concen: 51.981 ug/l
RT: 6.336 min Scan# 861
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

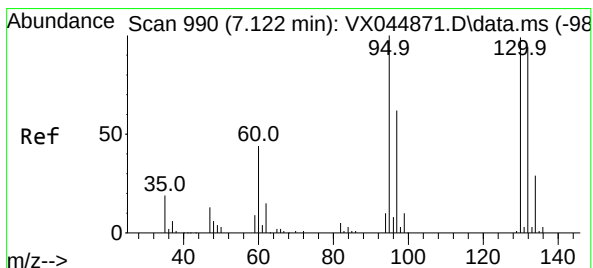
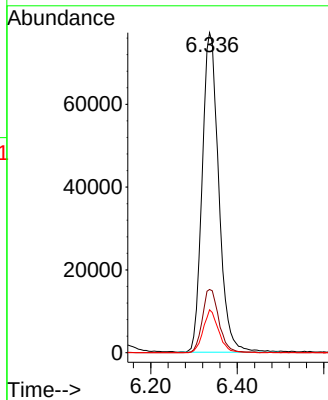
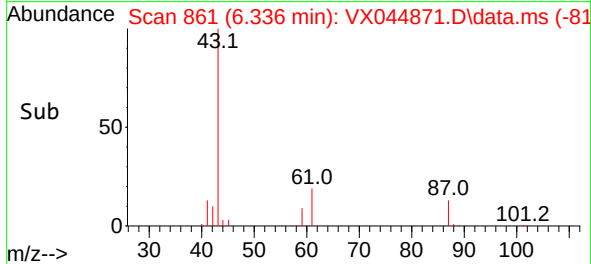
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 43 Resp: 20470
Ion Ratio Lower Upper
43 100
61 19.8 15.8 23.8
87 12.5 10.0 15.0

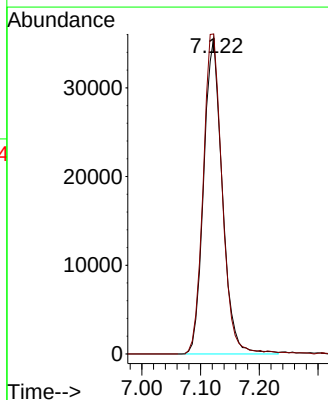
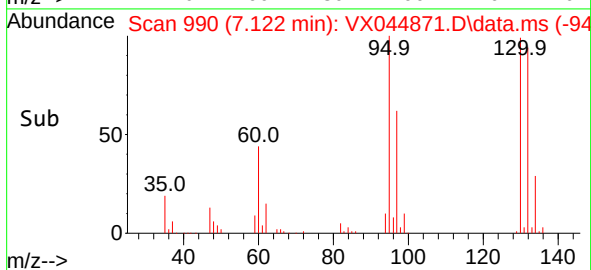
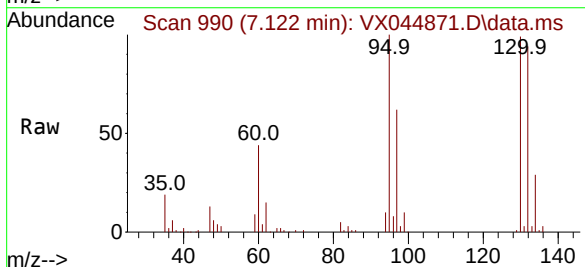
Manual Integrations
APPROVED

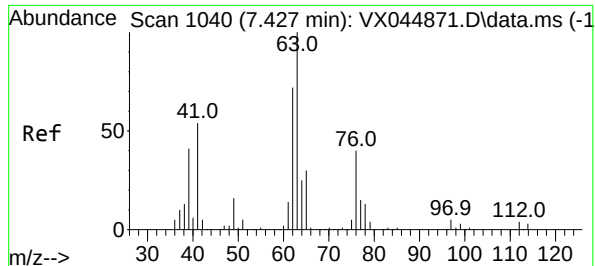
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#44
Trichloroethene
Concen: 50.020 ug/l
RT: 7.122 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:130 Resp: 78274
Ion Ratio Lower Upper
130 100
95 101.2 0.0 202.4





#45

1,2-Dichloropropane

Concen: 50.335 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 8573

Ion Ratio Lower Upper

63 100

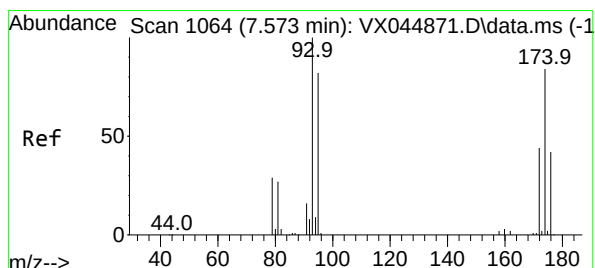
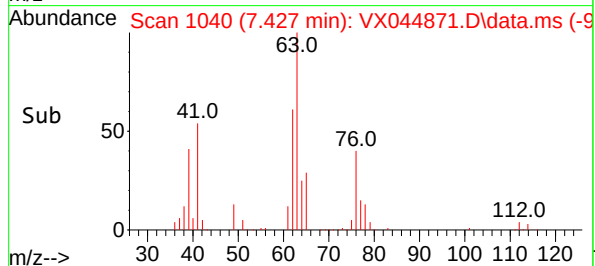
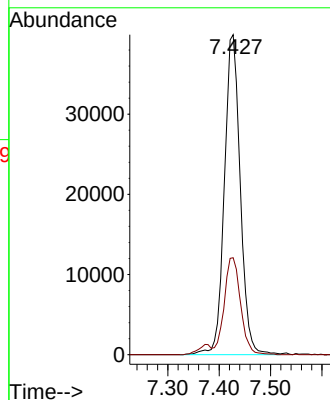
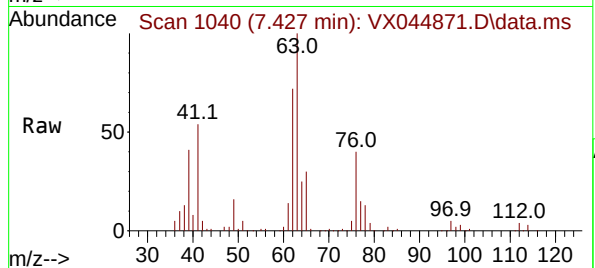
65 30.3 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#46

Dibromomethane

Concen: 50.479 ug/l

RT: 7.573 min Scan# 1064

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

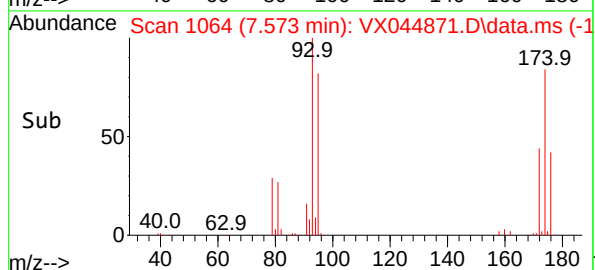
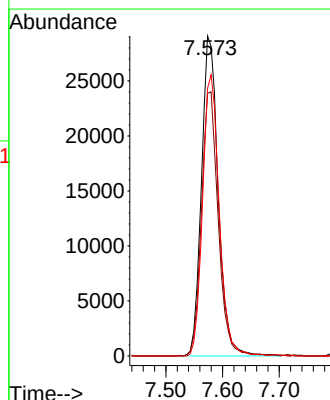
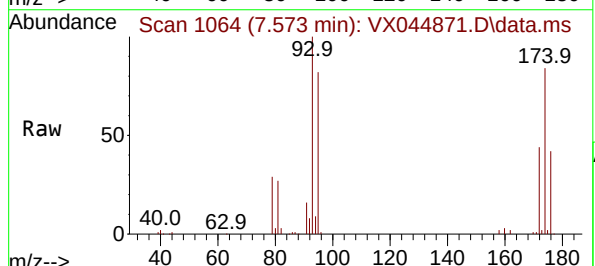
Tgt Ion: 93 Resp: 59625

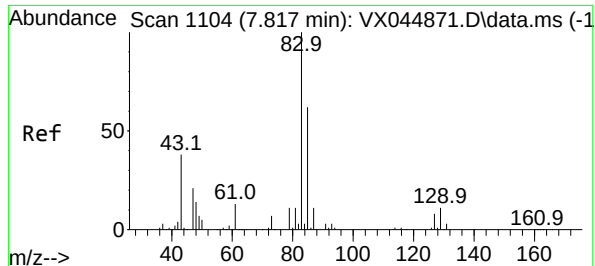
Ion Ratio Lower Upper

93 100

95 82.8 66.2 99.4

174 87.4 69.9 104.9





#47

Bromodichloromethane

Concen: 51.108 ug/l

RT: 7.817 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 11689

Ion Ratio Lower Upper

83 100

85 62.5 50.0 75.0

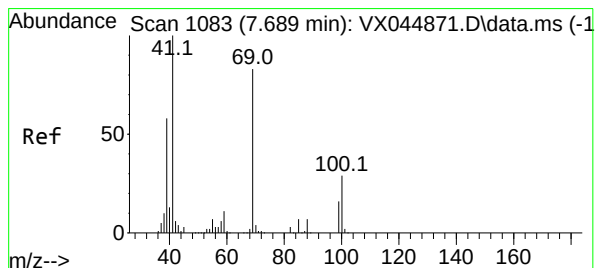
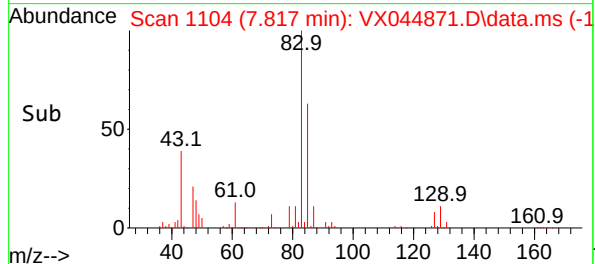
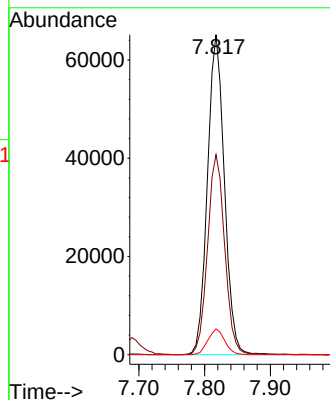
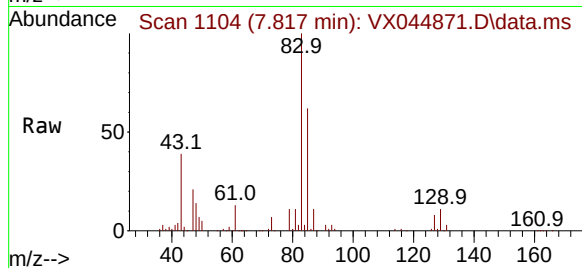
127 8.0 6.4 9.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#48

Methyl methacrylate

Concen: 53.057 ug/l

RT: 7.689 min Scan# 1083

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

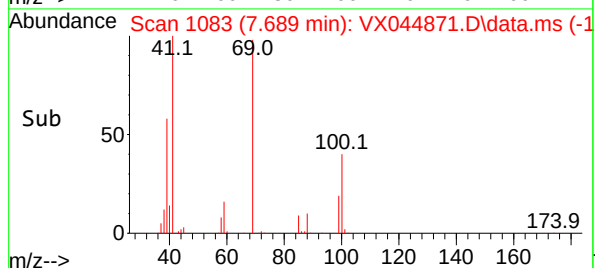
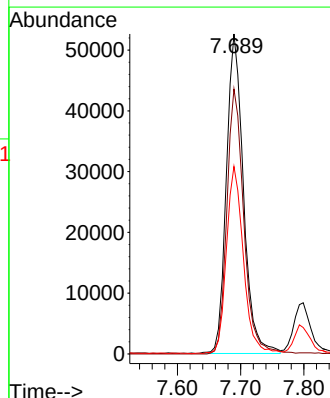
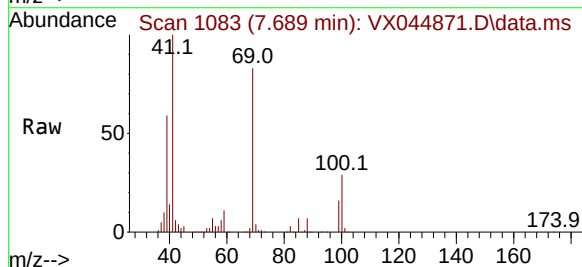
Tgt Ion: 41 Resp: 98519

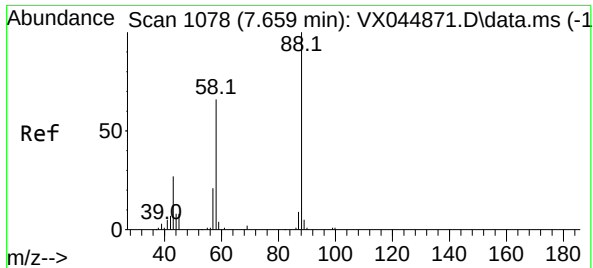
Ion Ratio Lower Upper

41 100

69 82.3 65.8 98.8

39 58.0 46.4 69.6





#49

1,4-Dioxane

Concen: 1056.618 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 88 Resp: 42094

Ion Ratio Lower Upper

88 100

43 33.2 26.6 39.8

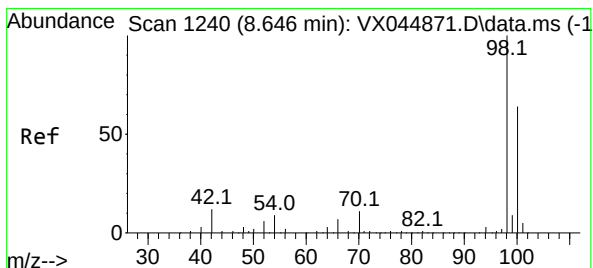
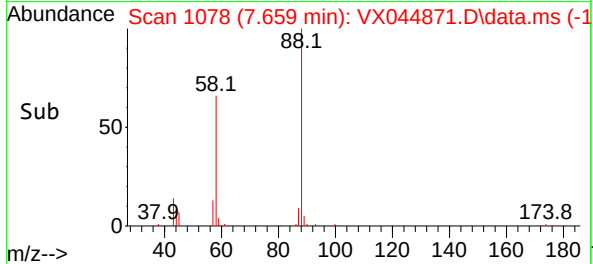
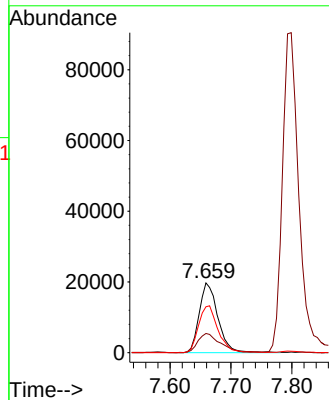
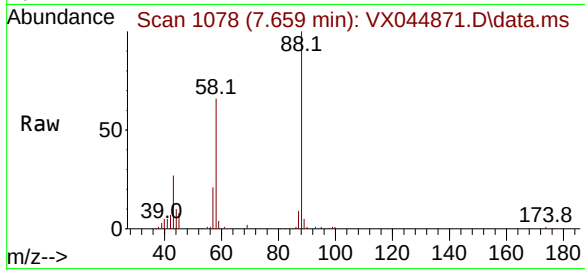
58 69.9 55.9 83.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#50

Toluene-d8

Concen: 50.392 ug/l

RT: 8.646 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044871.D

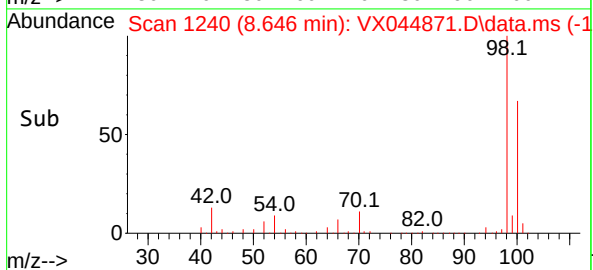
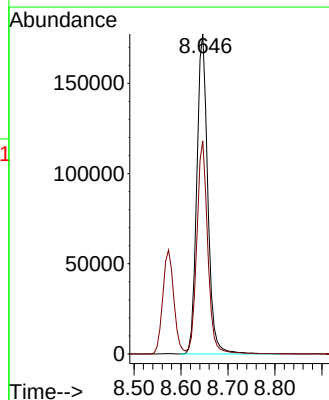
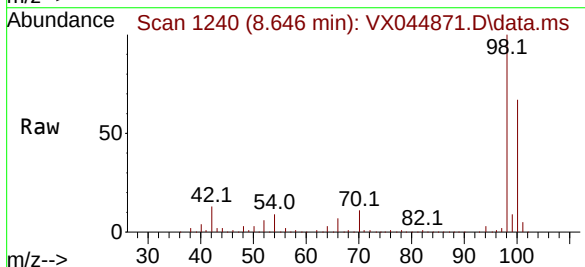
Acq: 10 Feb 2025 11:34

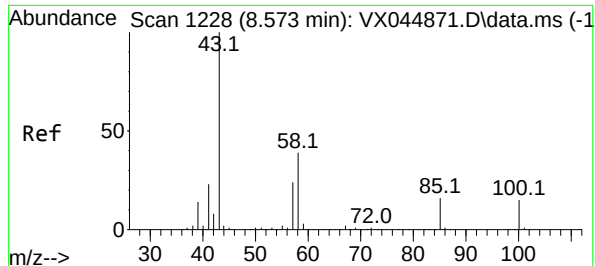
Tgt Ion: 98 Resp: 289575

Ion Ratio Lower Upper

98 100

100 65.9 52.7 79.1





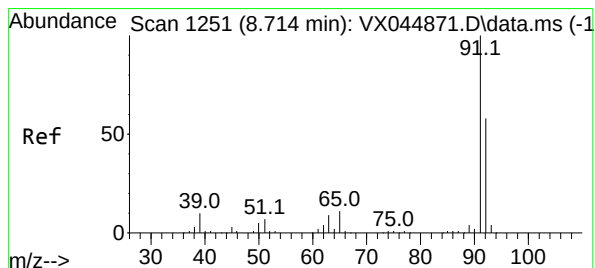
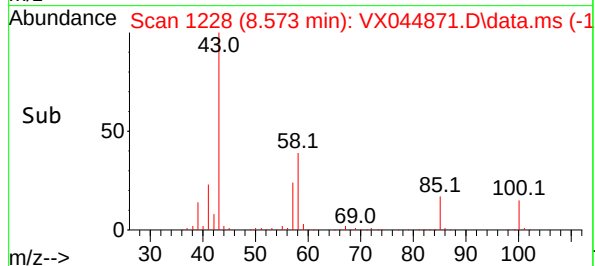
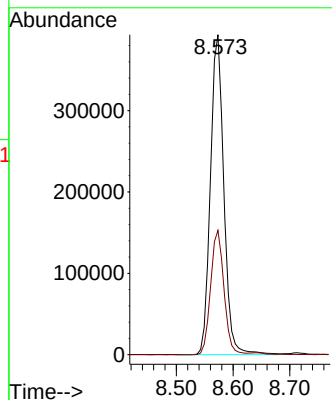
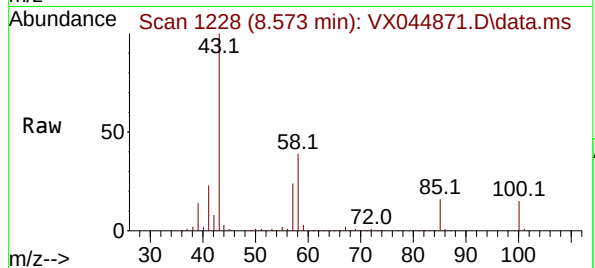
#51
4-Methyl-2-Pentanone
Concen: 270.364 ug/l
RT: 8.573 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 64728
Ion Ratio Lower Upper
43 100
58 38.5 30.8 46.2

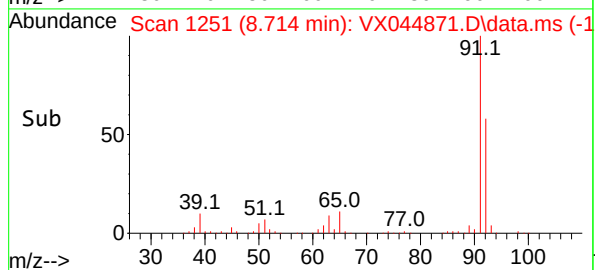
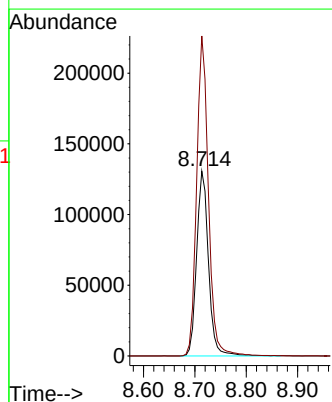
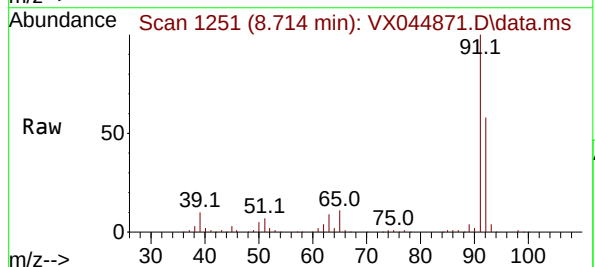
Manual Integrations
APPROVED

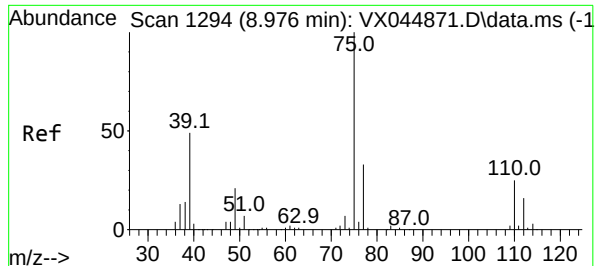
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#52
Toluene
Concen: 51.507 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 92 Resp: 210007
Ion Ratio Lower Upper
92 100
91 171.8 137.4 206.2





#53

t-1,3-Dichloropropene

Concen: 51.902 ug/l

RT: 8.976 min Scan# 1294

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 75 Resp: 120125

Ion Ratio Lower Upper

75 100

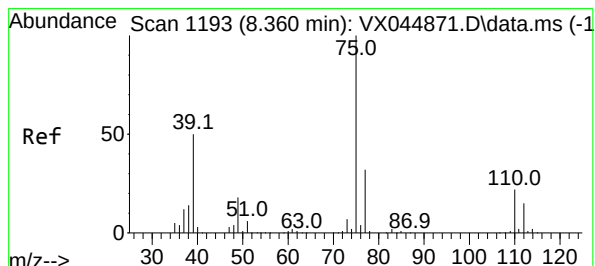
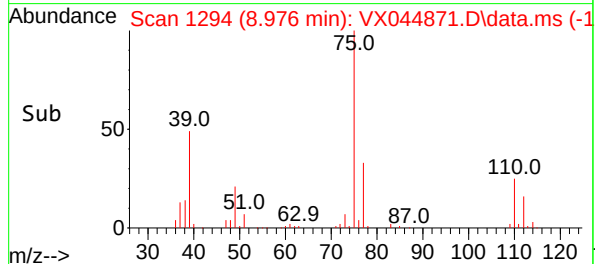
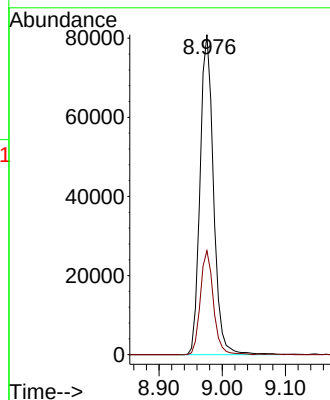
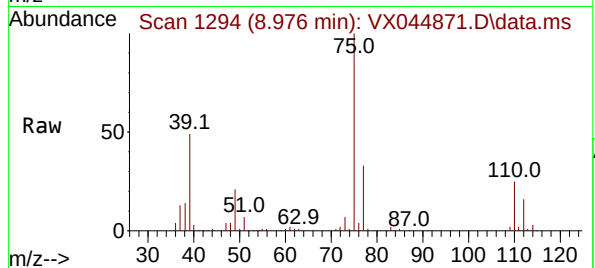
77 32.5 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#54

cis-1,3-Dichloropropene

Concen: 52.223 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

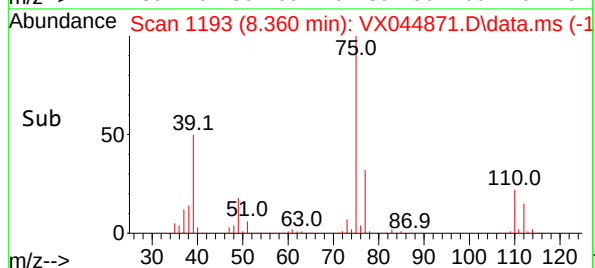
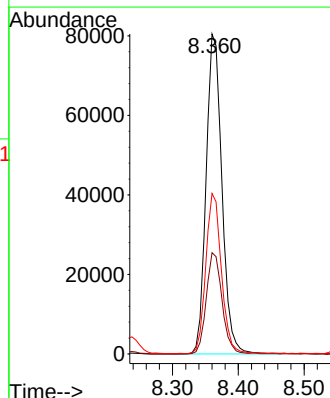
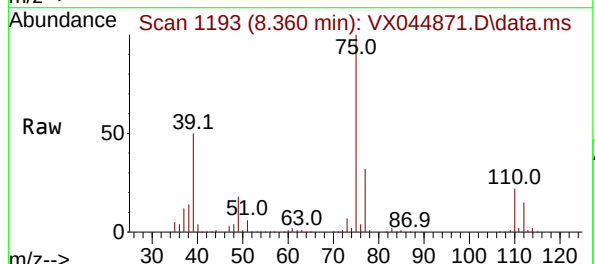
Tgt Ion: 75 Resp: 134763

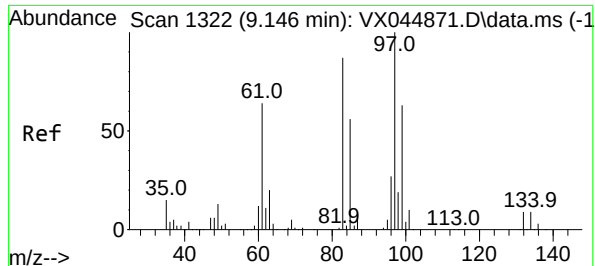
Ion Ratio Lower Upper

75 100

77 31.6 25.3 37.9

39 50.0 40.0 60.0





#55

1,1,2-Trichloroethane

Concen: 50.876 ug/l

RT: 9.146 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 97 Resp: 7974

Ion Ratio Lower Upper

97 100

83 87.2 69.8 104.6

85 56.0 44.8 67.2

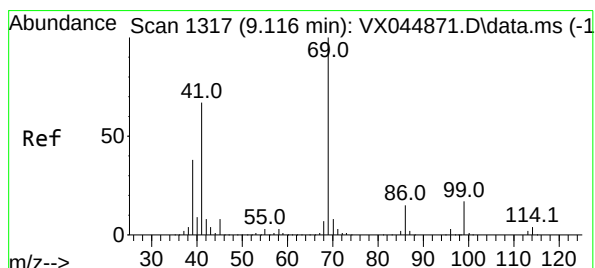
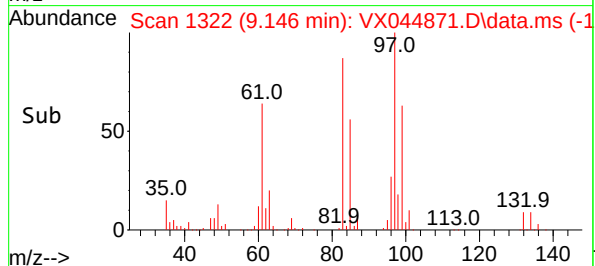
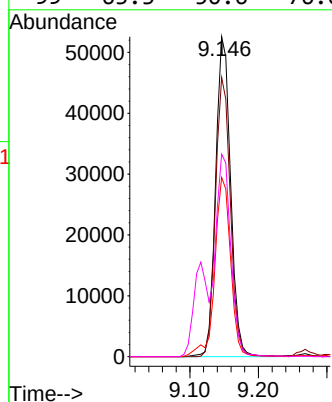
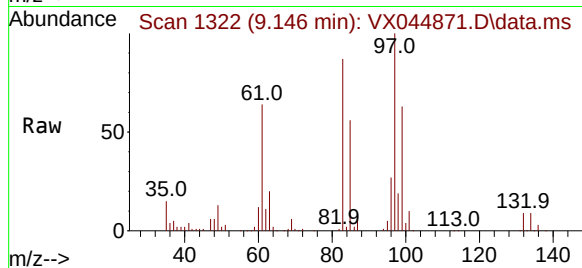
99 63.3 50.6 76.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#56

Ethyl methacrylate

Concen: 53.319 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

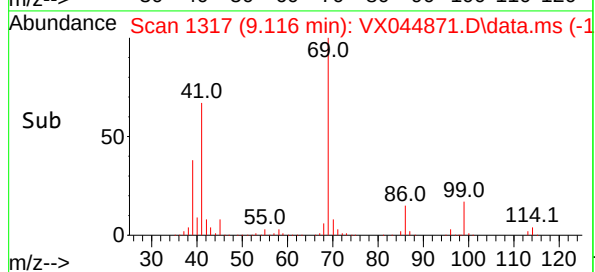
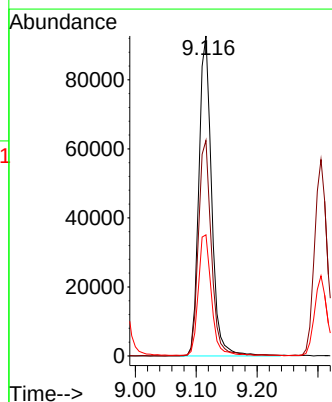
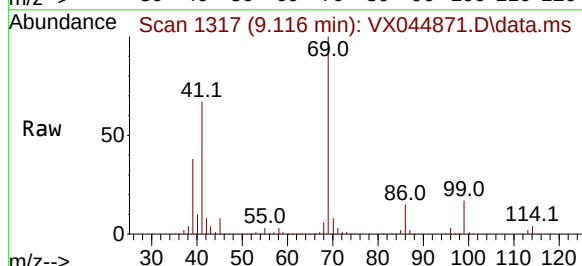
Tgt Ion: 69 Resp: 134975

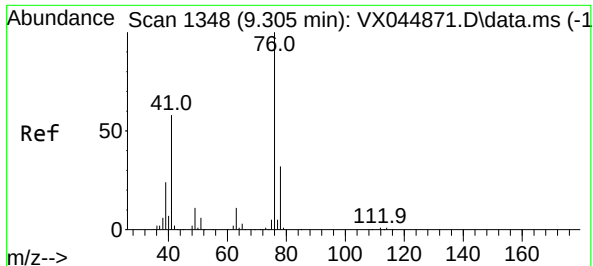
Ion Ratio Lower Upper

69 100

41 69.0 55.2 82.8

39 38.5 30.8 46.2





#57

1,3-Dichloropropane

Concen: 51.537 ug/l

RT: 9.305 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 14133

Ion Ratio Lower Upper

76 100

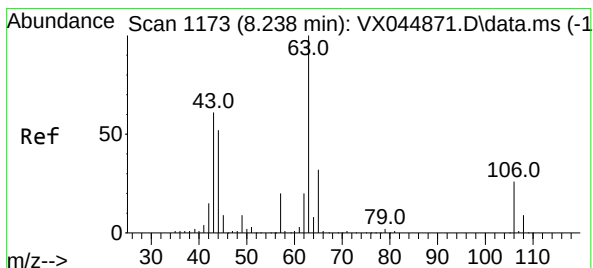
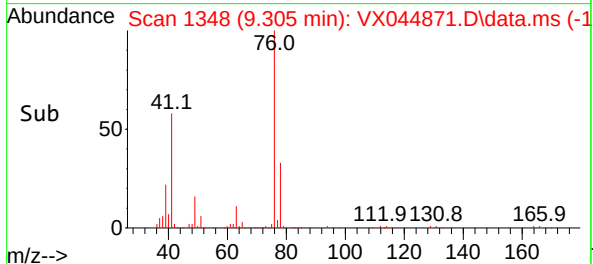
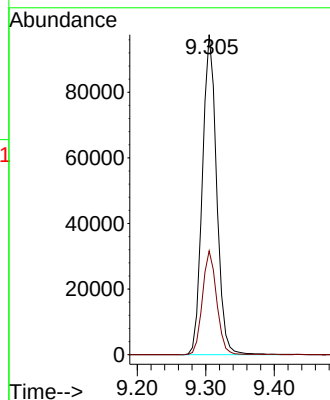
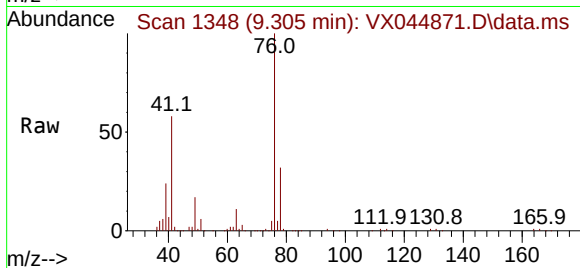
78 32.3 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#58

2-Chloroethyl Vinyl ether

Concen: 270.652 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX044871.D

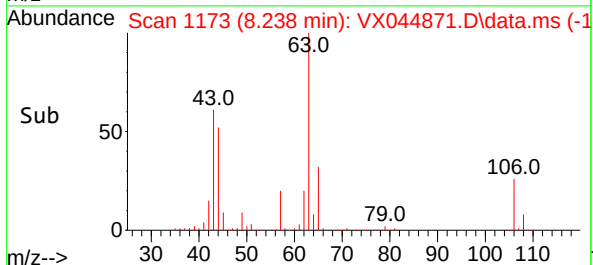
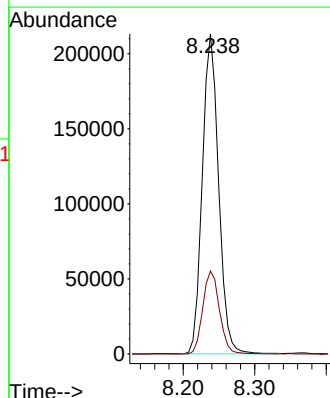
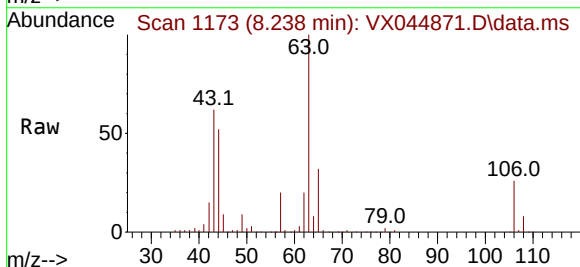
Acq: 10 Feb 2025 11:34

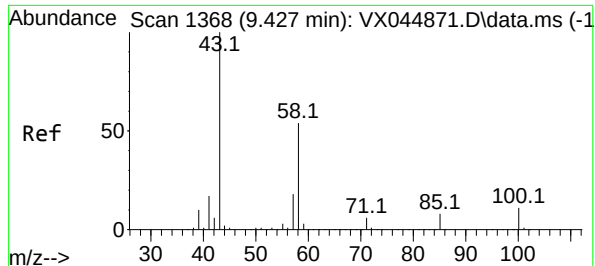
Tgt Ion: 63 Resp: 336412

Ion Ratio Lower Upper

63 100

106 26.6 21.3 31.9





#59

2-Hexanone

Concen: 273.800 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 47230

Ion Ratio Lower Upper

43 100

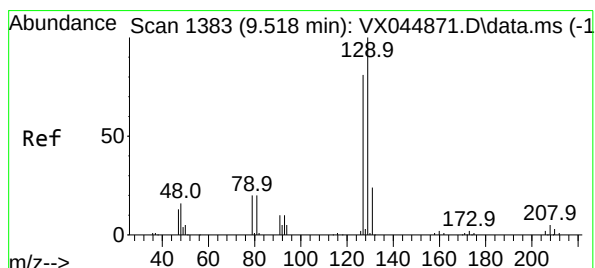
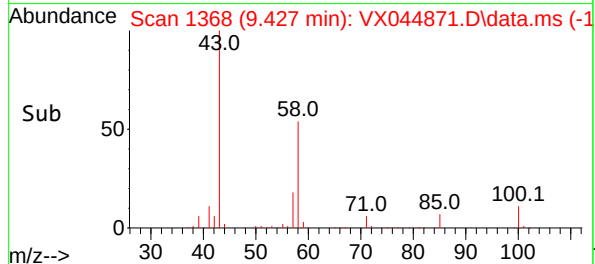
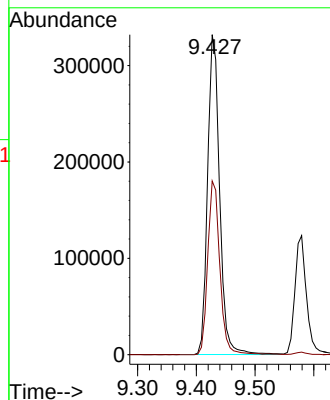
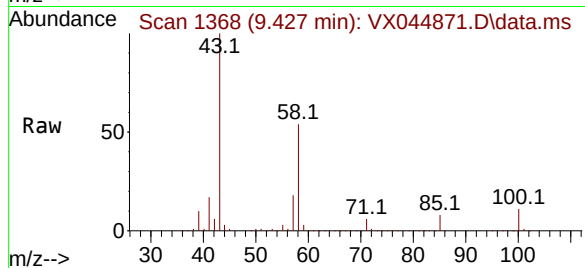
58 54.9 27.5 82.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#60

Dibromochloromethane

Concen: 52.045 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX044871.D

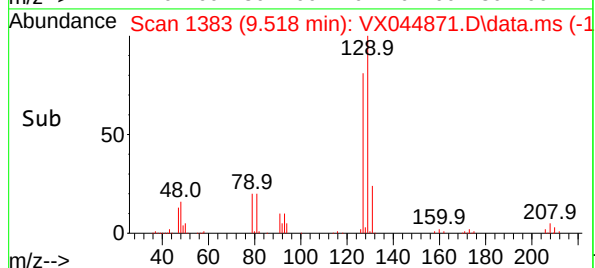
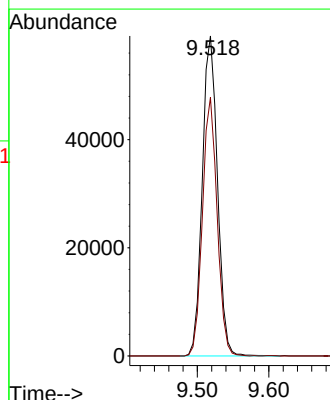
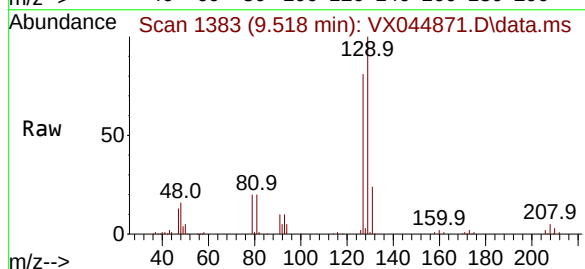
Acq: 10 Feb 2025 11:34

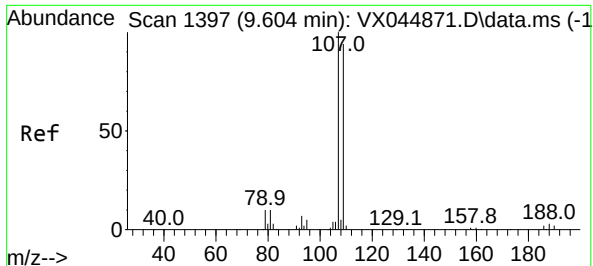
Tgt Ion:129 Resp: 87240

Ion Ratio Lower Upper

129 100

127 78.2 39.1 117.3





#61

1,2-Dibromoethane

Concen: 51.564 ug/l

RT: 9.604 min Scan# 1397

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:107 Resp: 81915

Ion Ratio Lower Upper

107 100

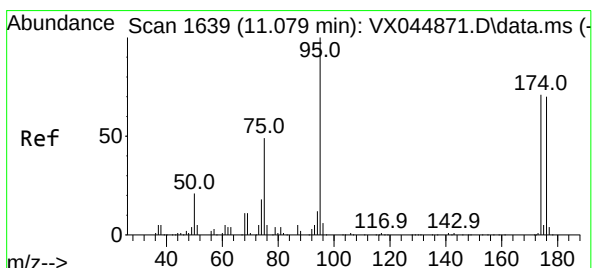
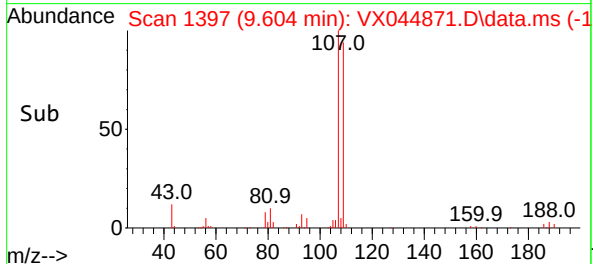
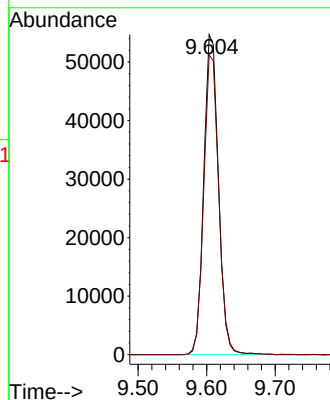
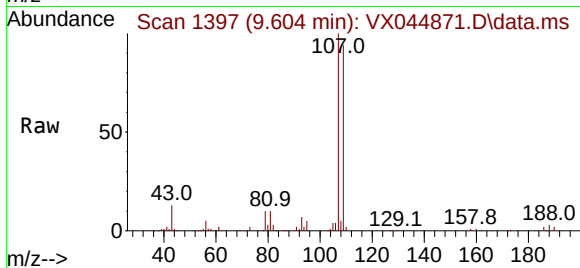
109 94.9 75.9 113.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#62

4-Bromofluorobenzene

Concen: 52.031 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

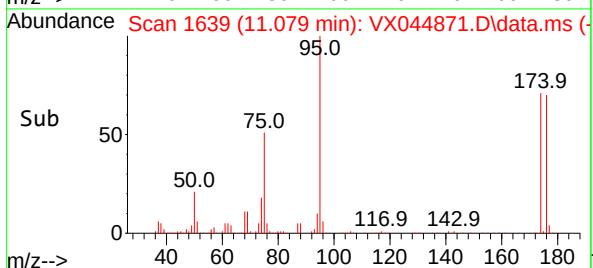
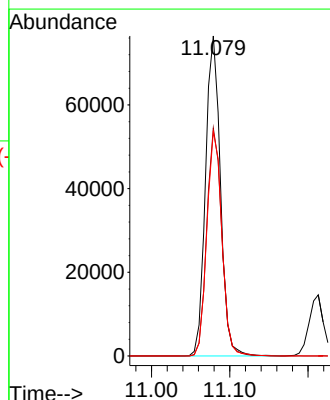
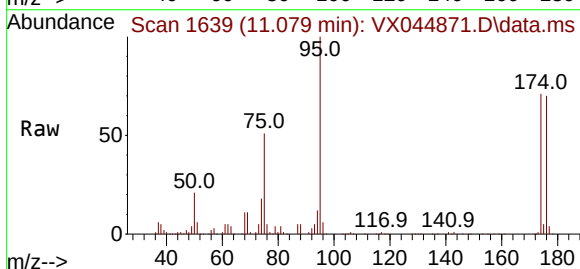
Tgt Ion: 95 Resp: 100798

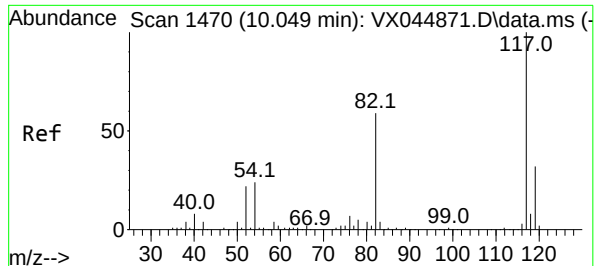
Ion Ratio Lower Upper

95 100

174 71.3 0.0 142.6

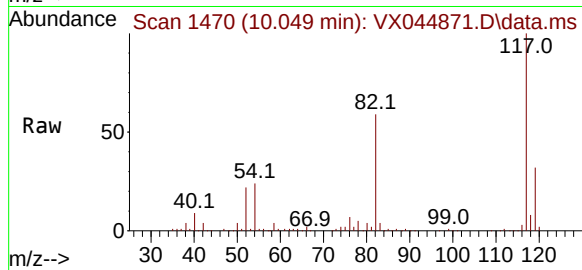
176 70.8 0.0 141.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

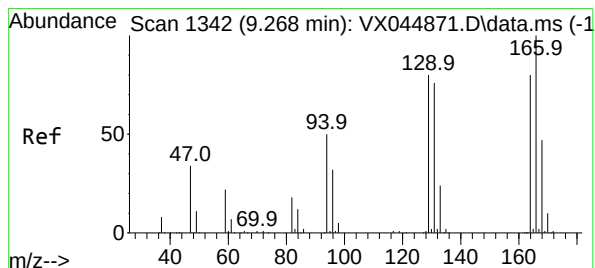
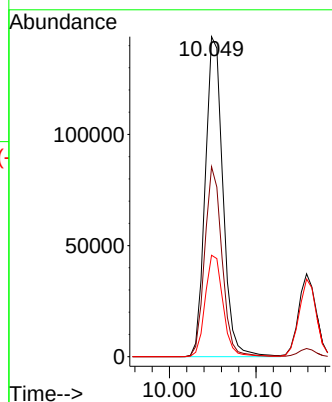
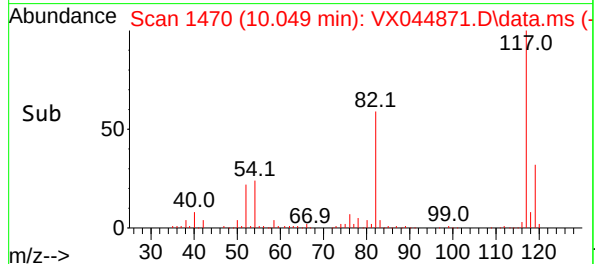
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:117 Resp: 20475
Ion Ratio Lower Upper
117 100
82 59.4 47.5 71.3
119 31.7 25.4 38.0

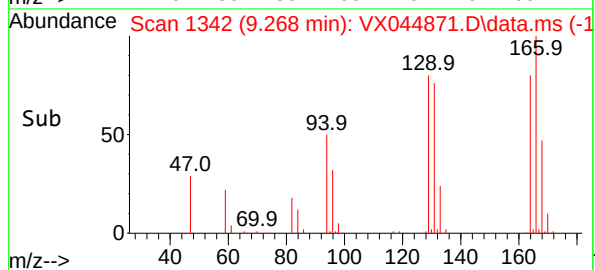
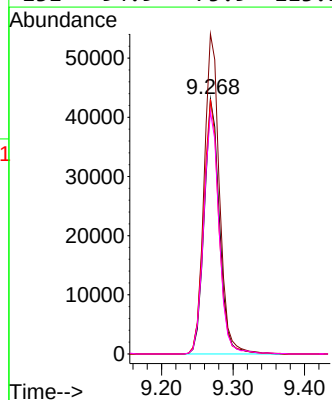
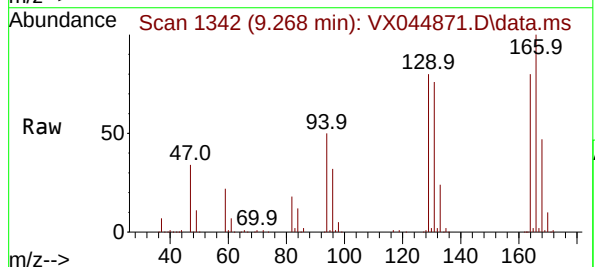
Manual Integrations
APPROVED

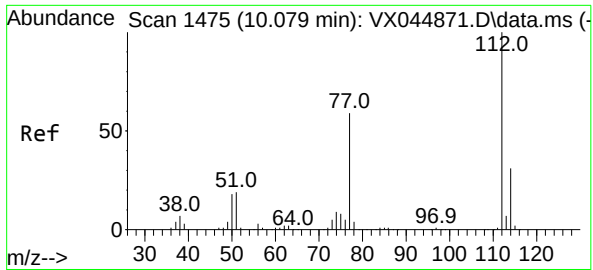
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#64
Tetrachloroethene
Concen: 49.206 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

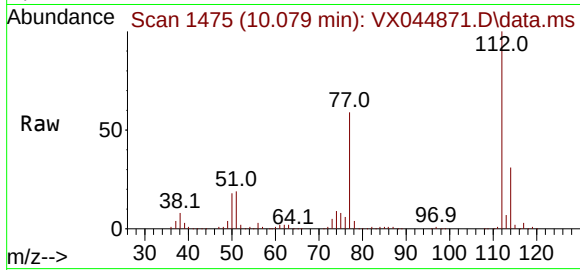
Tgt Ion:164 Resp: 63537
Ion Ratio Lower Upper
164 100
166 125.5 100.4 150.6
129 99.9 79.9 119.9
131 94.9 75.9 113.9





#65
Chlorobenzene
Concen: 51.005 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

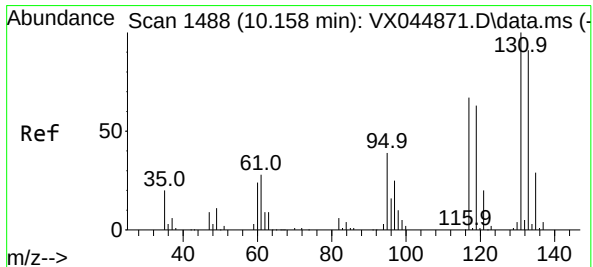
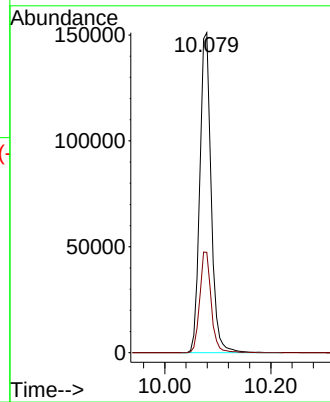
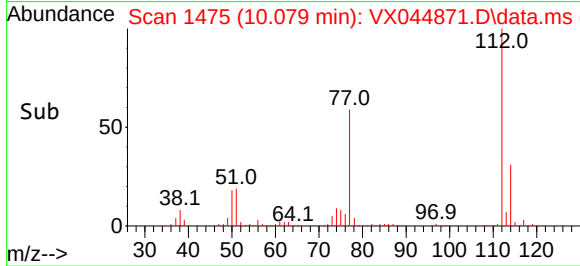
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:112 Resp: 224300
Ion Ratio Lower Upper
112 100
114 31.3 25.0 37.6

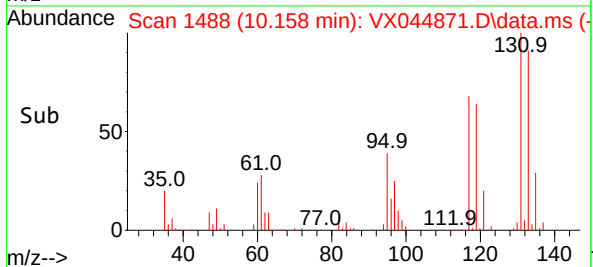
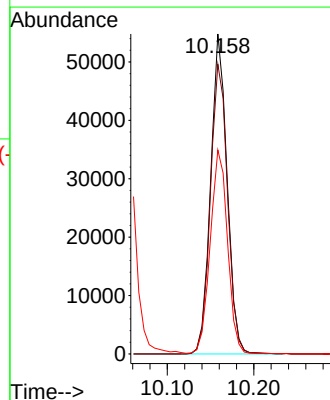
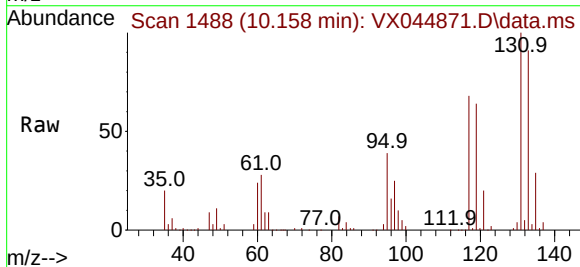
Manual Integrations
APPROVED

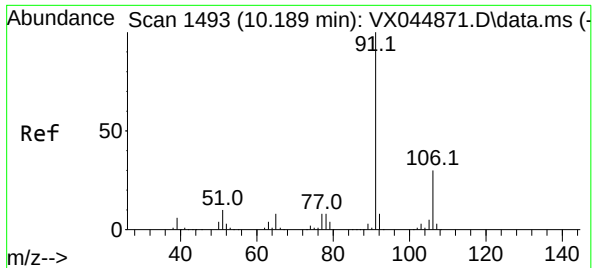
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 51.203 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

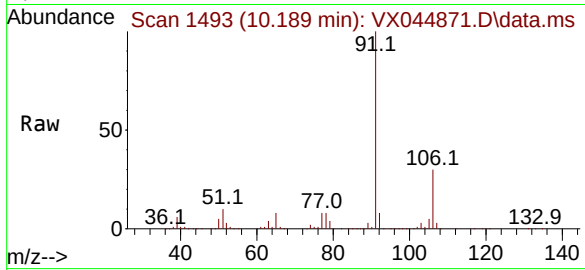
Tgt Ion:131 Resp: 72478
Ion Ratio Lower Upper
131 100
133 94.2 47.1 141.3
119 67.1 33.6 100.6





#67
Ethyl Benzene
Concen: 51.061 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

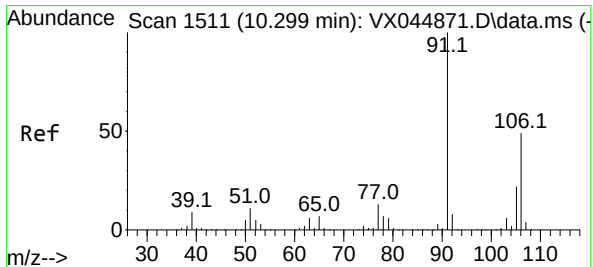
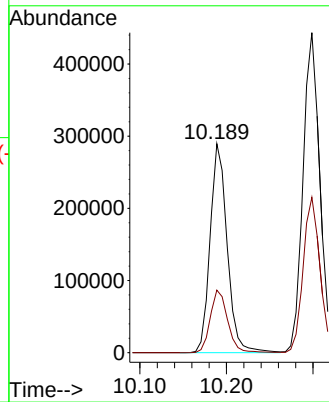
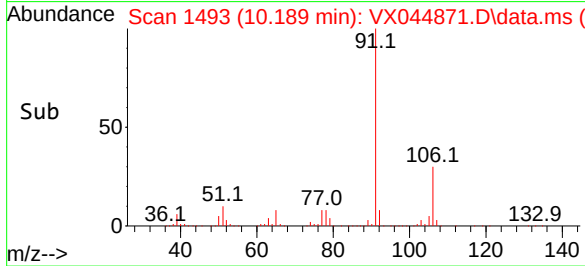
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



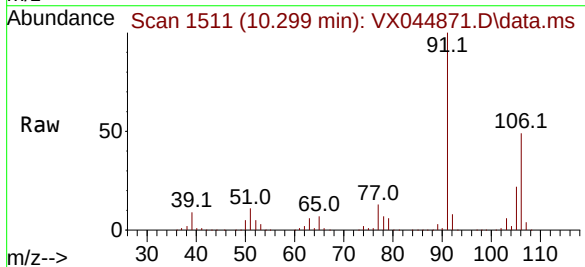
Tgt Ion: 91 Resp: 396269
Ion Ratio Lower Upper
91 100
106 29.9 23.9 35.9

Manual Integrations
APPROVED

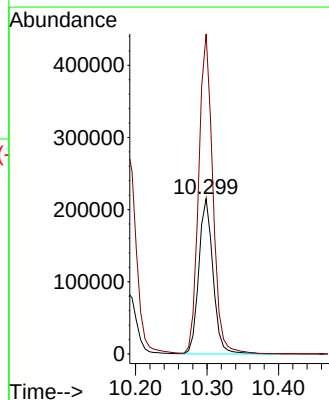
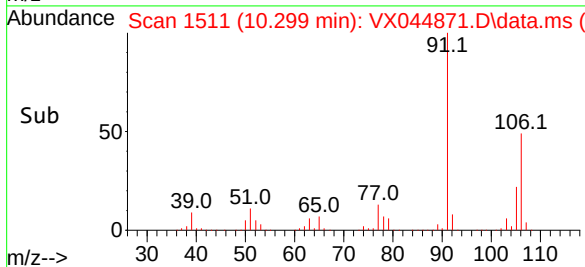
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

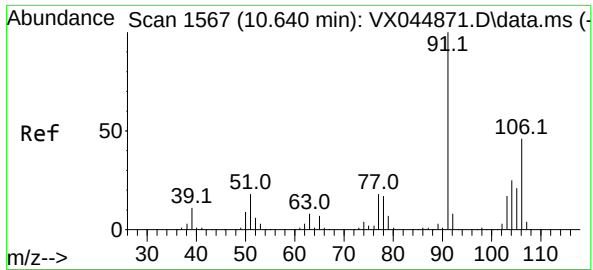


#68
m/p-Xylenes
Concen: 103.573 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34



Tgt Ion:106 Resp: 296507
Ion Ratio Lower Upper
106 100
91 205.4 164.3 246.5





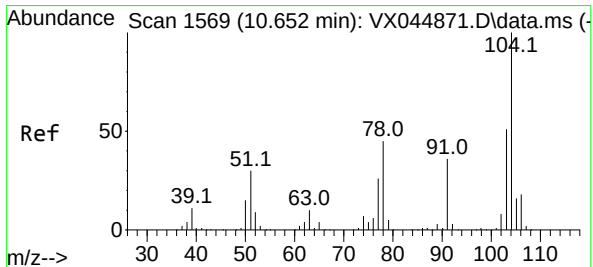
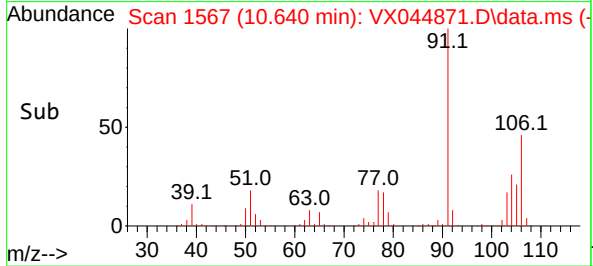
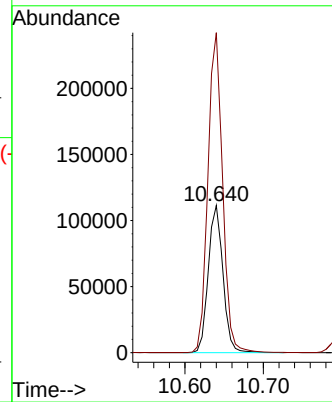
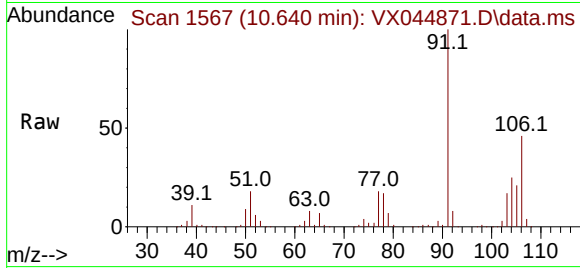
#69
o-Xylene
Concen: 50.409 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 144802
Ion Ratio Lower Upper
106 100
91 217.0 108.5 325.5

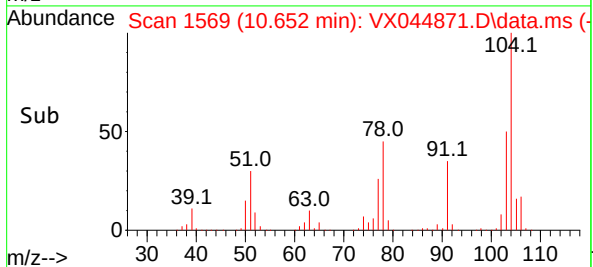
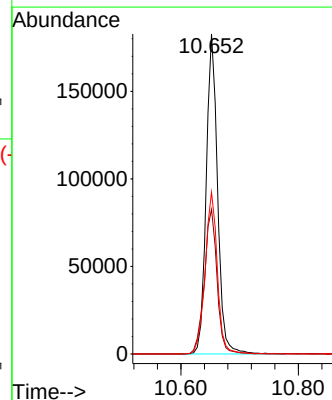
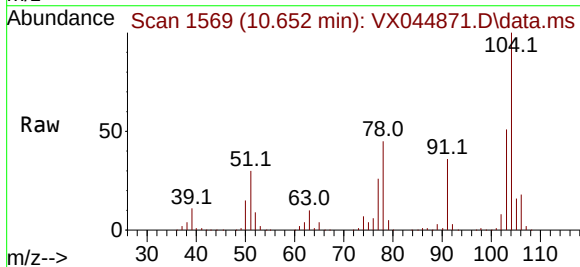
Manual Integrations
APPROVED

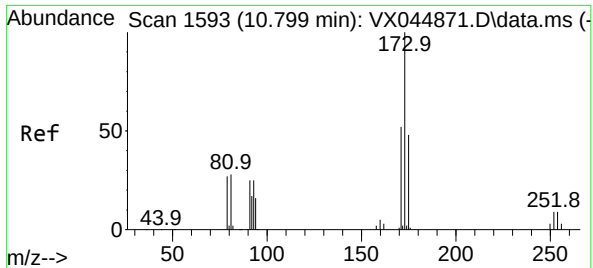
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#70
Styrene
Concen: 53.051 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

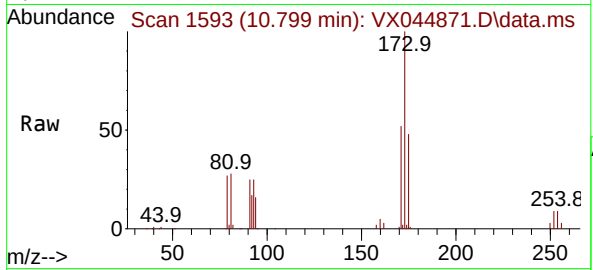
Tgt Ion:104 Resp: 245518
Ion Ratio Lower Upper
104 100
78 50.6 40.5 60.7
103 54.5 43.6 65.4





#71
Bromoform
Concen: 54.352 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

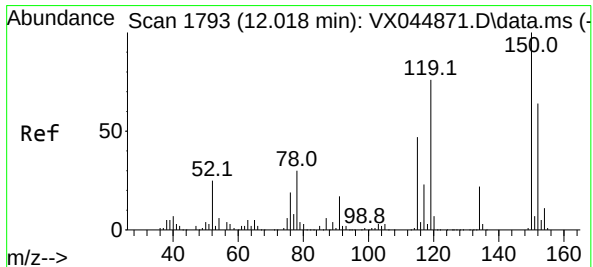
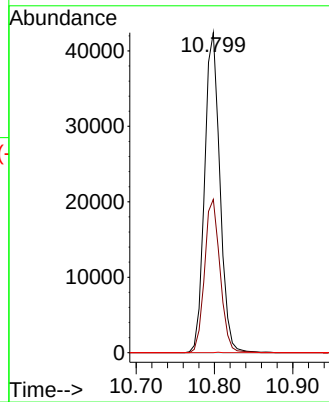
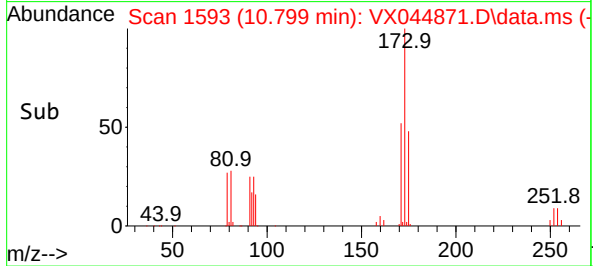
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:173 Resp: 5741
Ion Ratio Lower Upper
173 100
175 48.5 24.3 72.8
254 0.0 0.0 0.0

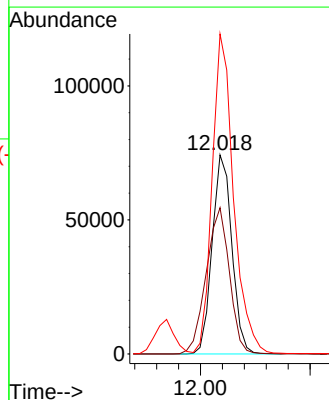
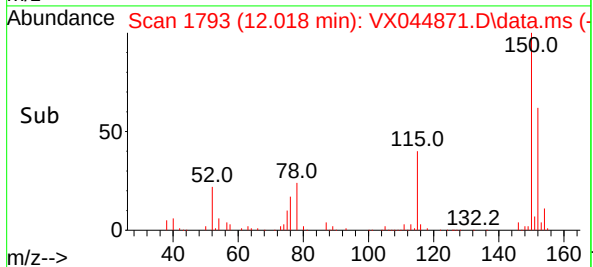
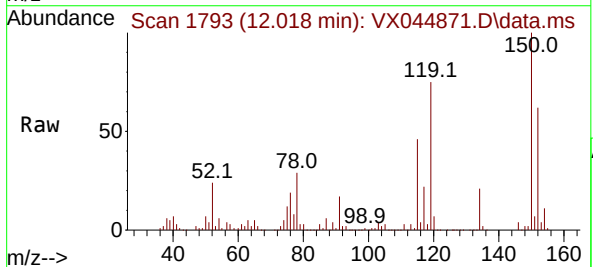
Manual Integrations
APPROVED

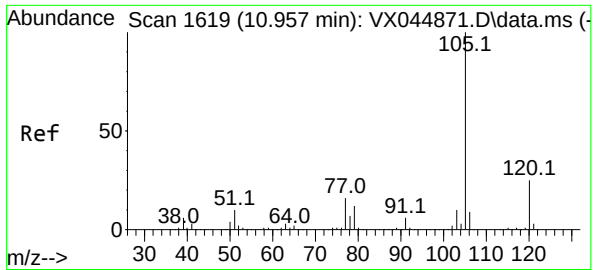
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:152 Resp: 92648
Ion Ratio Lower Upper
152 100
115 86.7 43.4 130.1
150 175.2 0.0 350.4





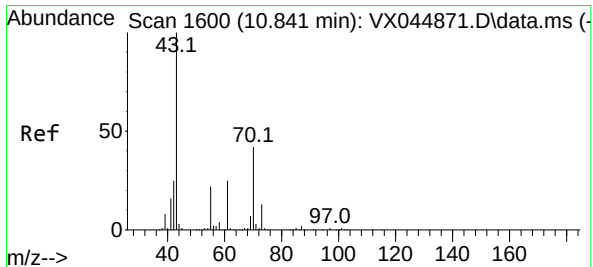
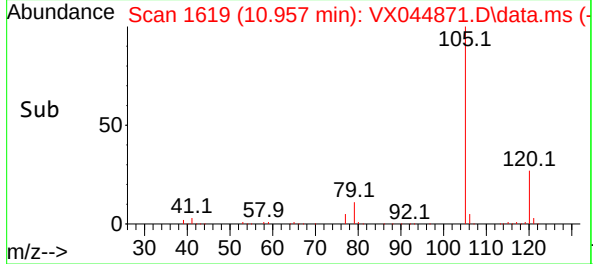
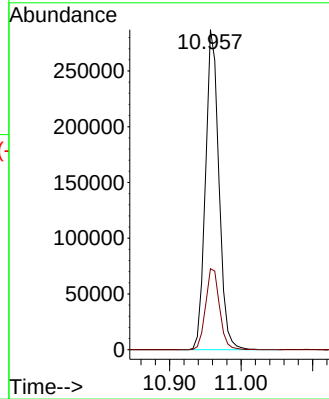
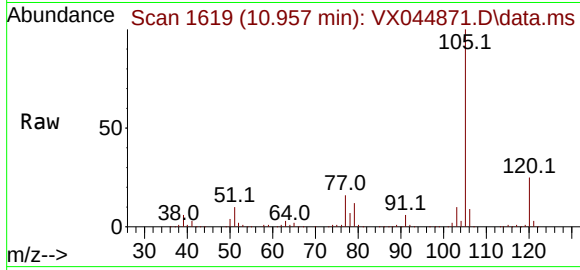
#73
Isopropylbenzene
Concen: 50.239 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 374770
Ion Ratio Lower Upper
105 100
120 26.3 13.2 39.5

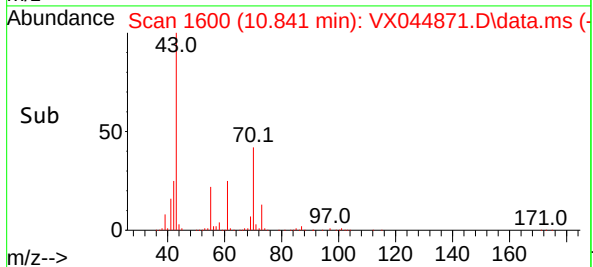
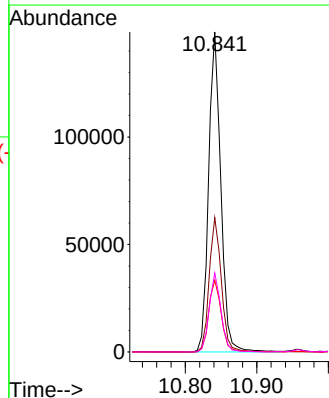
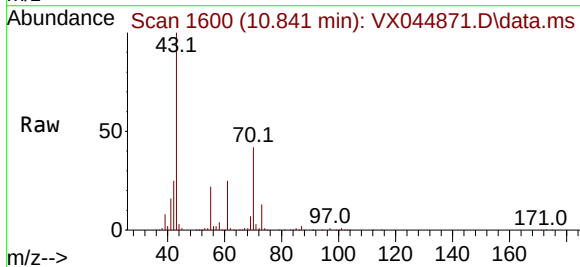
Manual Integrations
APPROVED

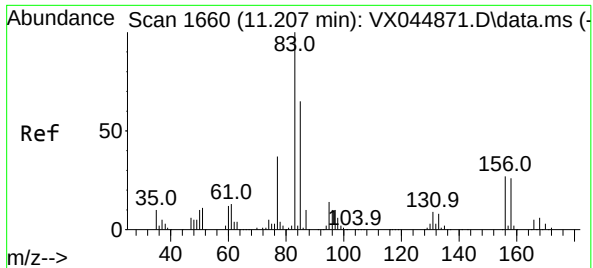
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#74
N-ethyl acetate
Concen: 52.189 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 176174
Ion Ratio Lower Upper
43 100
70 42.1 33.7 50.5
55 23.2 18.6 27.8
61 23.9 19.1 28.7





#75

1,1,2,2-Tetrachloroethane

Concen: 49.364 ug/l

RT: 11.207 min Scan# 1660

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 12654

Ion Ratio Lower Upper

83 100

131 9.0 4.5 13.5

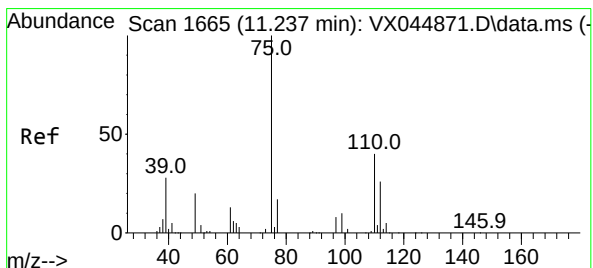
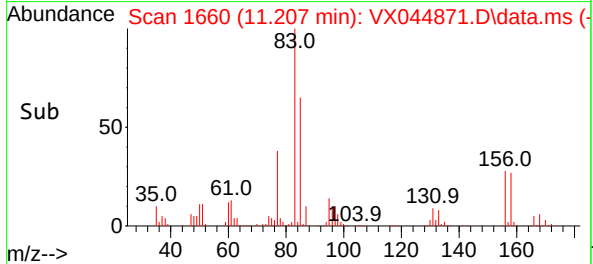
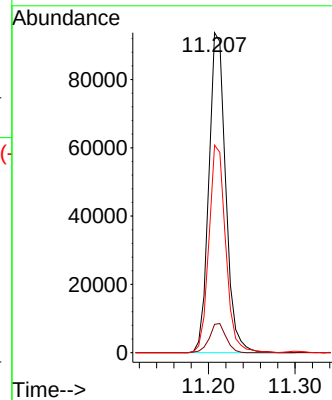
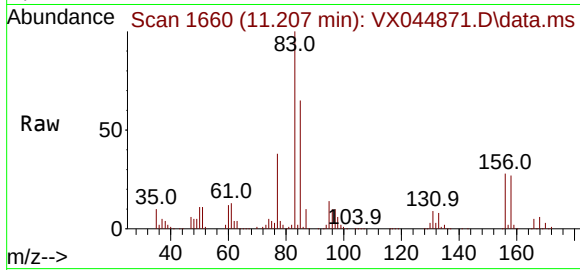
85 64.5 32.3 96.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#76

1,2,3-Trichloropropane

Concen: 49.903 ug/l m

RT: 11.237 min Scan# 1665

Delta R.T. 0.000 min

Lab File: VX044871.D

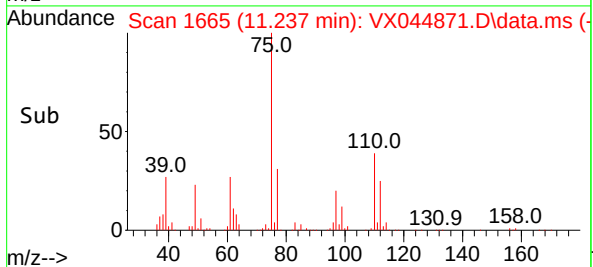
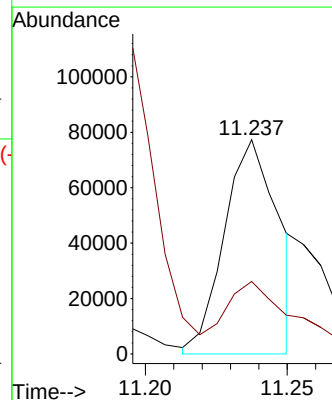
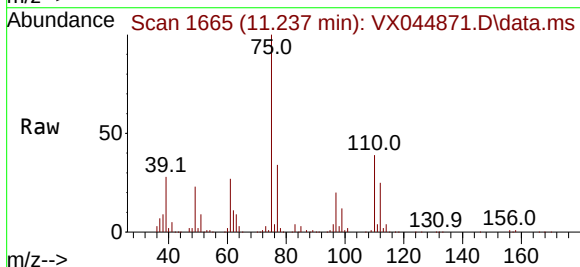
Acq: 10 Feb 2025 11:34

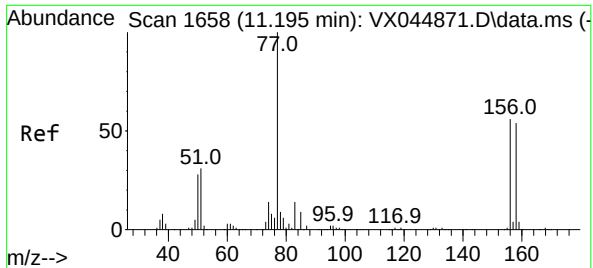
Tgt Ion: 75 Resp: 102508

Ion Ratio Lower Upper

75 100

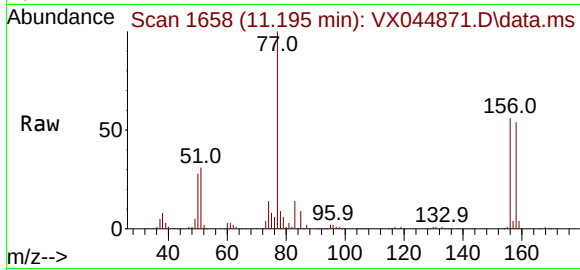
77 43.8 21.9 65.7





#77
Bromobenzene
Concen: 49.931 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

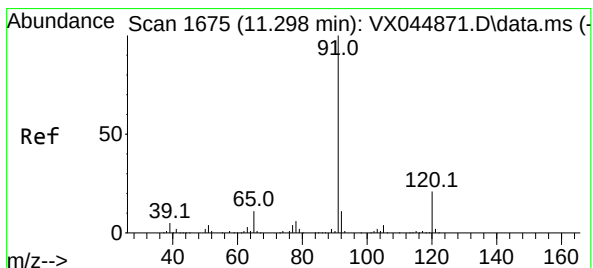
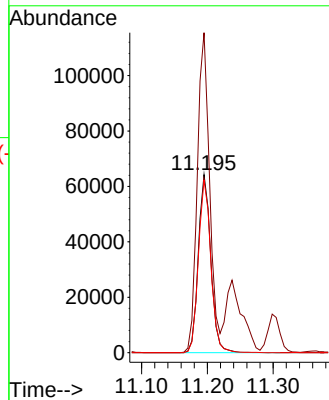
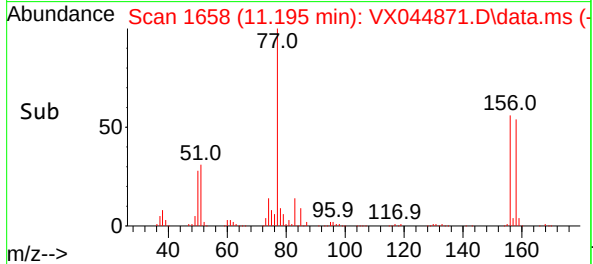
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:156 Resp: 84448
Ion Ratio Lower Upper
156 100
77 176.9 88.4 265.3
158 96.8 48.4 145.2

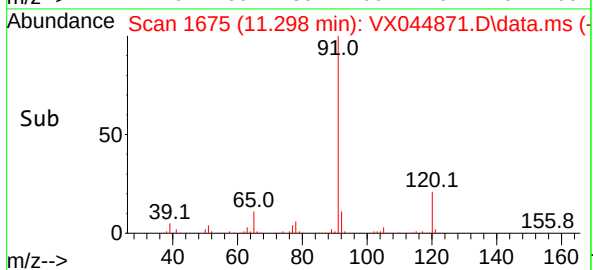
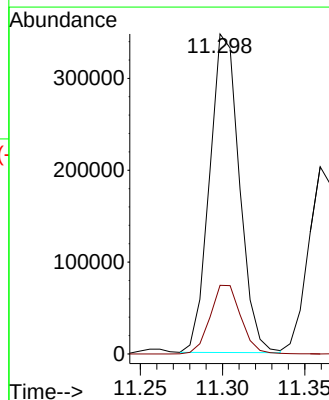
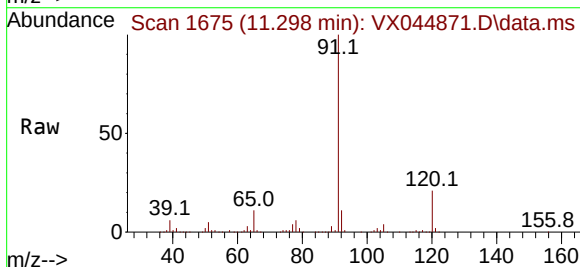
Manual Integrations
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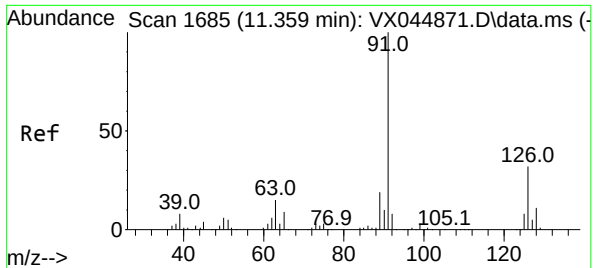
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#78
n-propylbenzene
Concen: 50.818 ug/l
RT: 11.298 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 91 Resp: 437572
Ion Ratio Lower Upper
91 100
120 22.2 11.1 33.3





#79

2-Chlorotoluene

Concen: 49.749 ug/l

RT: 11.359 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 263269

Ion Ratio Lower Upper

91 100

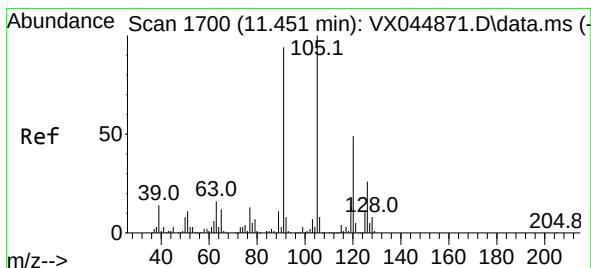
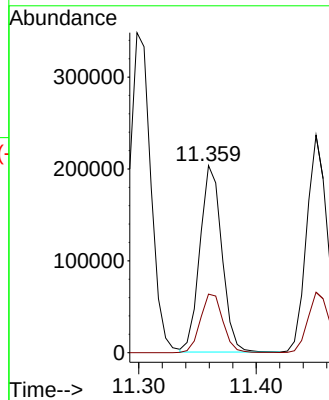
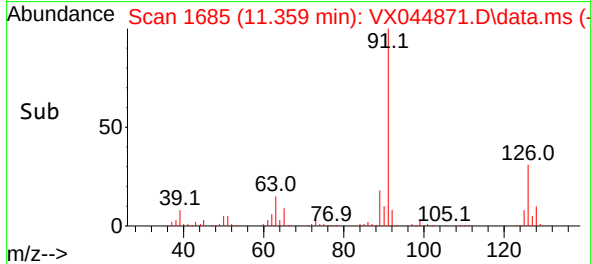
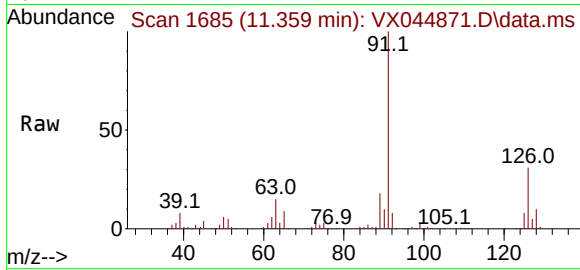
126 32.4 16.2 48.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#80

1,3,5-Trimethylbenzene

Concen: 50.789 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX044871.D

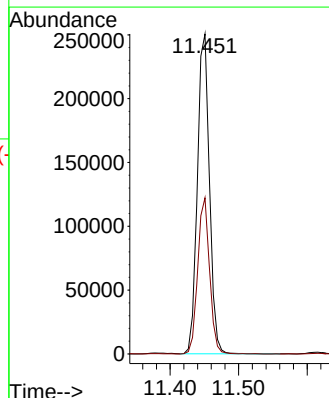
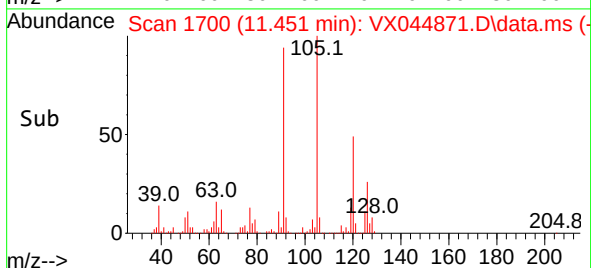
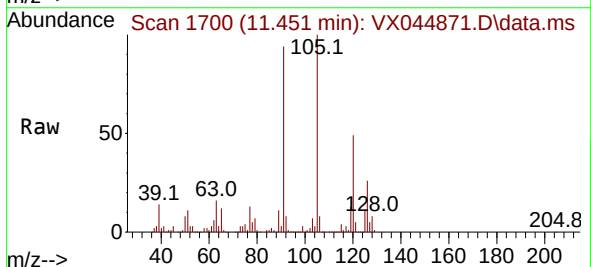
Acq: 10 Feb 2025 11:34

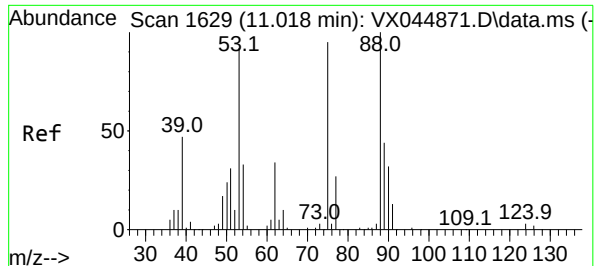
Tgt Ion:105 Resp: 307465

Ion Ratio Lower Upper

105 100

120 48.0 24.0 72.0





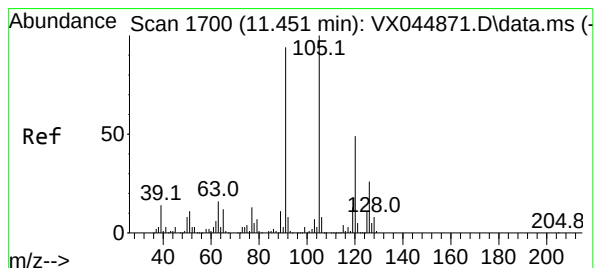
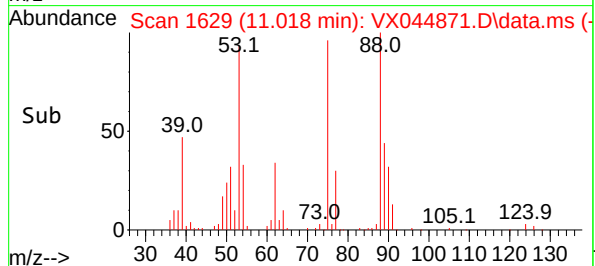
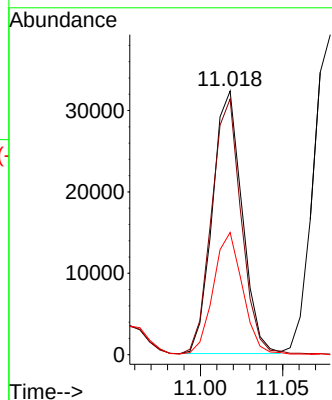
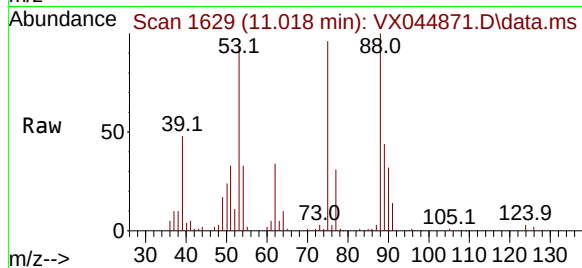
#81
trans-1,4-Dichloro-2-butene
Concen: 50.701 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 4048
Ion Ratio Lower Upper
75 100
53 97.5 78.0 117.0
89 45.7 36.6 54.8

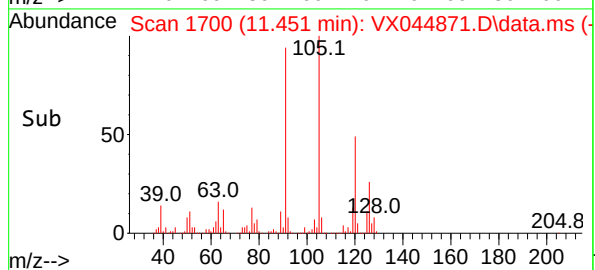
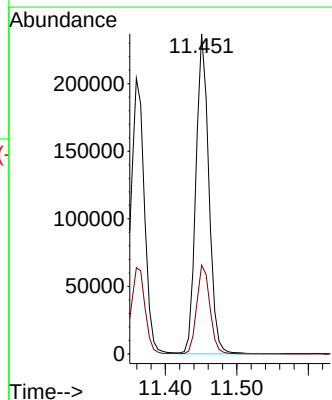
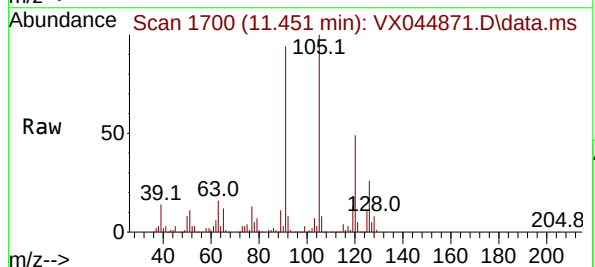
Manual Integrations
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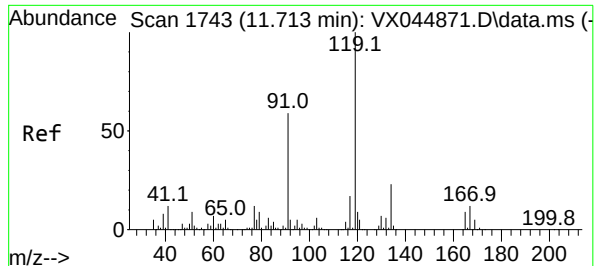
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#82
4-Chlorotoluene
Concen: 50.531 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 91 Resp: 295844
Ion Ratio Lower Upper
91 100
126 28.4 14.2 42.6





#83

tert-Butylbenzene

Concen: 50.102 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:119 Resp: 306830

Ion Ratio Lower Upper

119 100

91 58.3 29.1 87.4

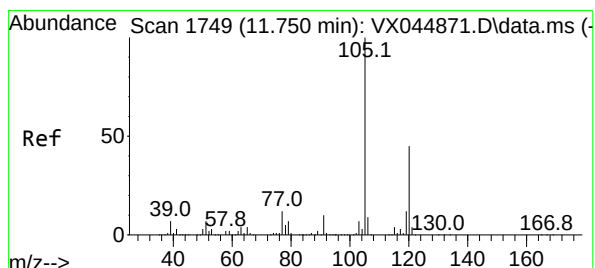
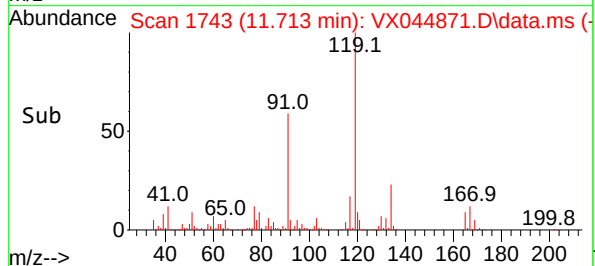
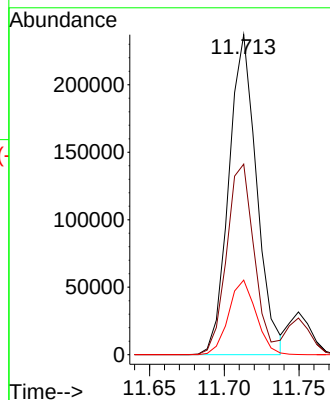
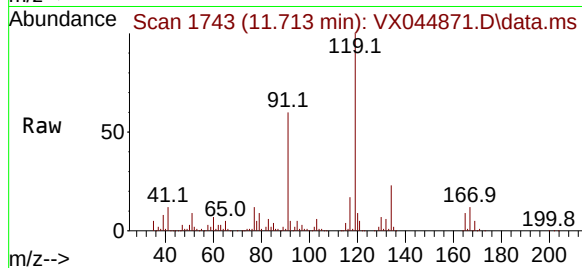
134 23.0 11.5 34.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#84

1,2,4-Trimethylbenzene

Concen: 52.085 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX044871.D

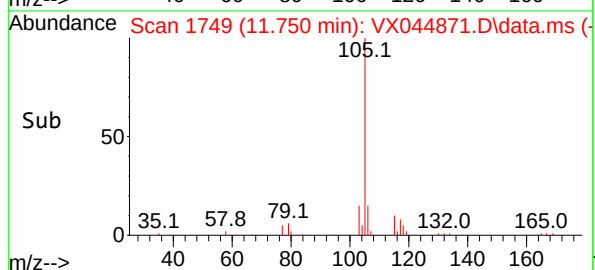
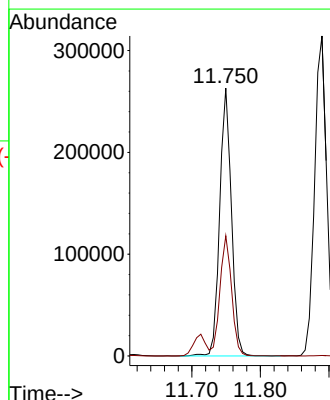
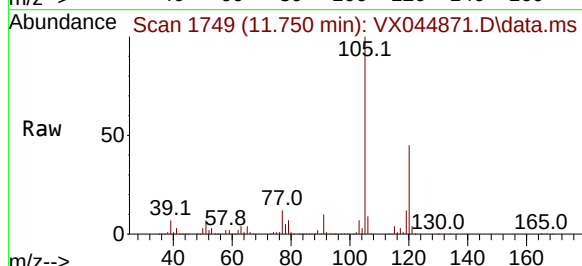
Acq: 10 Feb 2025 11:34

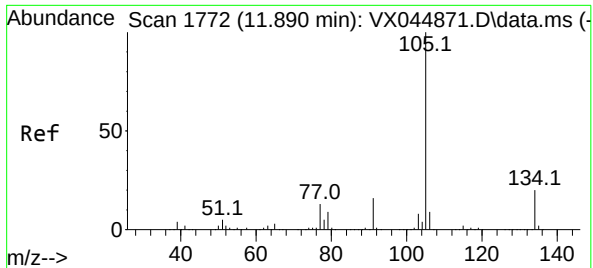
Tgt Ion:105 Resp: 311205

Ion Ratio Lower Upper

105 100

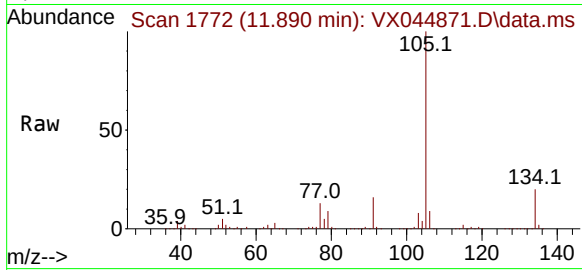
120 44.7 22.4 67.0





#85
 sec-Butylbenzene
 Concen: 50.657 ug/l
 RT: 11.890 min Scan# 1772
 Delta R.T. 0.000 min
 Lab File: VX044871.D
 Acq: 10 Feb 2025 11:34

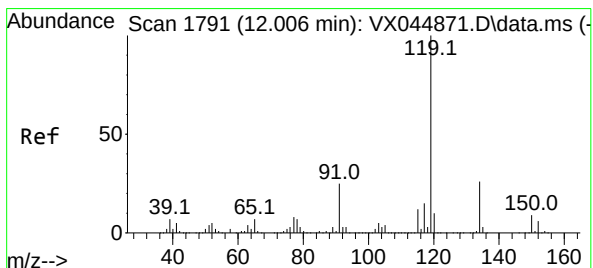
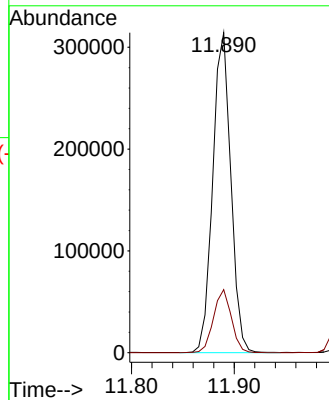
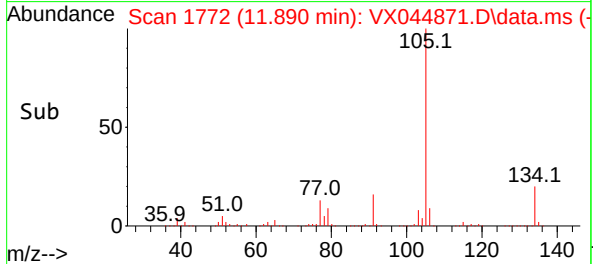
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050



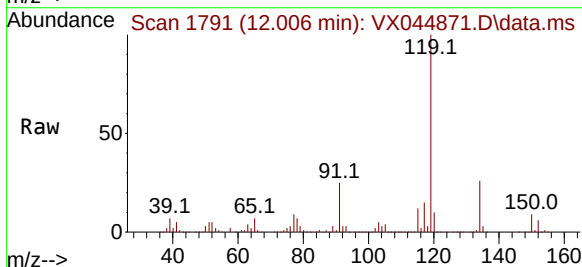
Tgt Ion:105 Resp: 38415
 Ion Ratio Lower Upper
 105 100
 134 19.5 9.8 29.3

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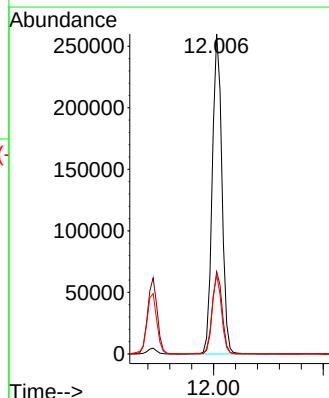
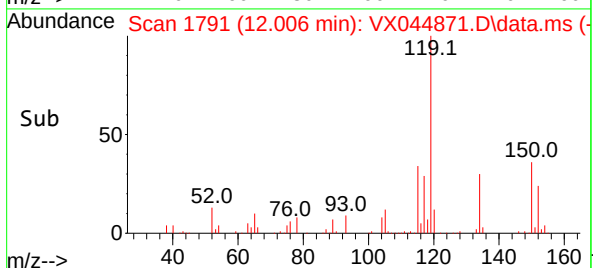
Reviewed By :John Carlone 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025

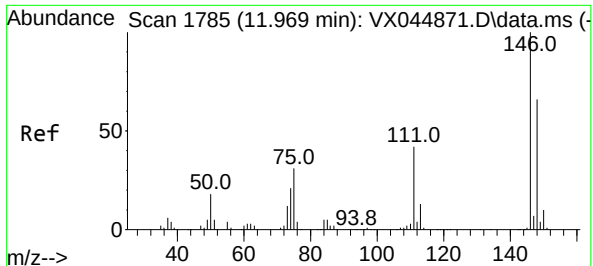


#86
 p-Isopropyltoluene
 Concen: 51.689 ug/l
 RT: 12.006 min Scan# 1791
 Delta R.T. 0.000 min
 Lab File: VX044871.D
 Acq: 10 Feb 2025 11:34



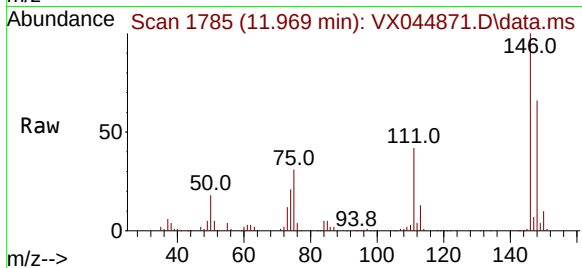
Tgt Ion:119 Resp: 315226
 Ion Ratio Lower Upper
 119 100
 134 25.9 13.0 38.9
 91 24.2 12.1 36.3





#87
1,3-Dichlorobenzene
Concen: 50.021 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

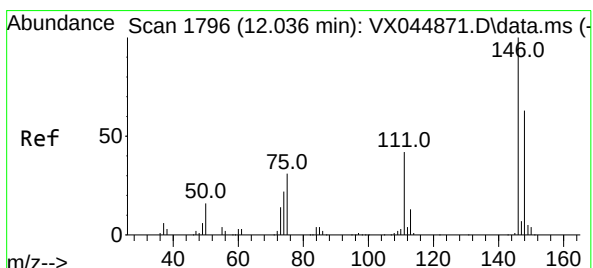
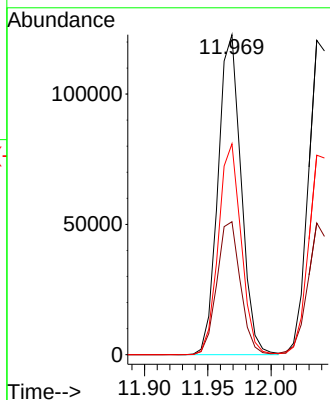
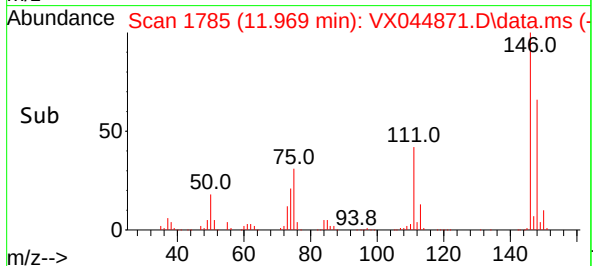
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:146 Resp: 155579
Ion Ratio Lower Upper
146 100
111 42.4 21.2 63.6
148 65.0 32.5 97.5

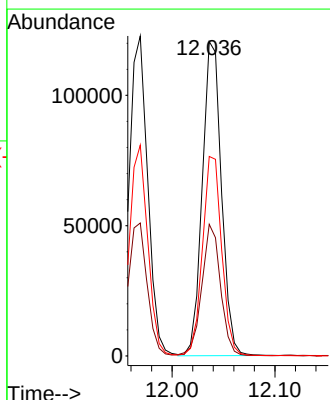
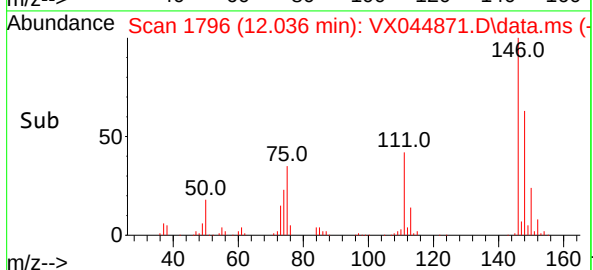
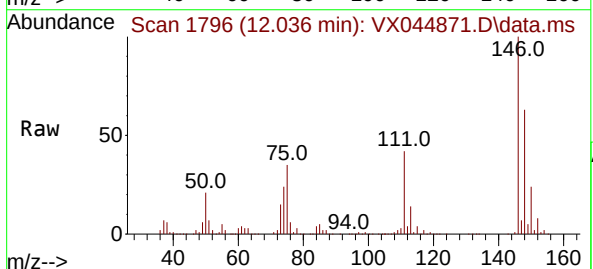
Manual Integrations
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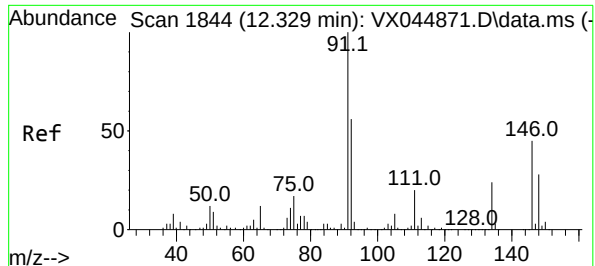
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#88
1,4-Dichlorobenzene
Concen: 49.657 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:146 Resp: 156162
Ion Ratio Lower Upper
146 100
111 40.9 20.4 61.3
148 64.0 32.0 96.0





#89

n-Butylbenzene

Concen: 53.315 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 287649

Ion Ratio Lower Upper

91 100

92 54.4 27.2 81.6

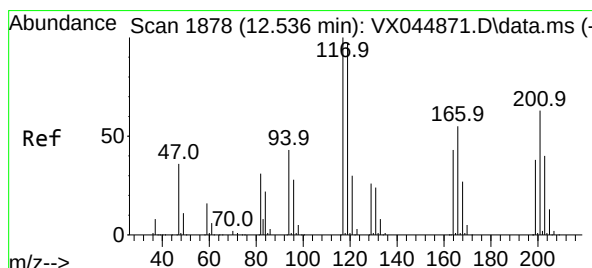
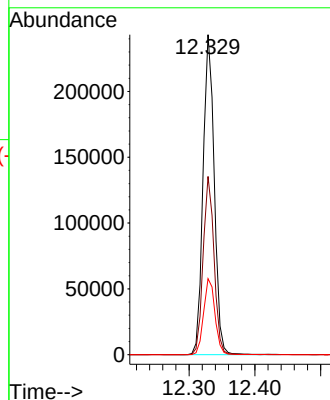
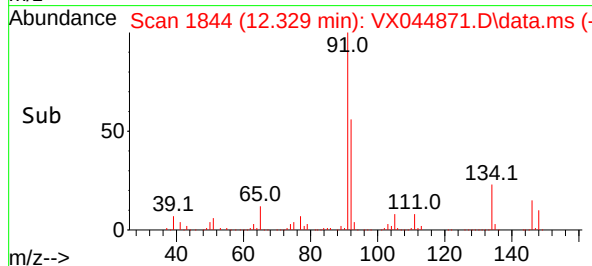
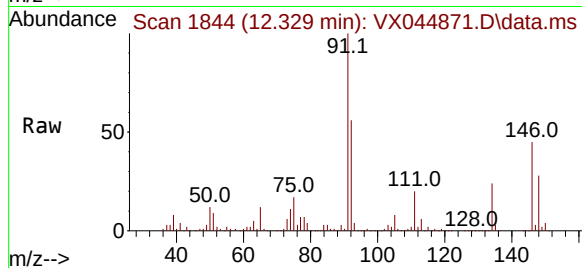
134 24.2 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#90

Hexachloroethane

Concen: 49.874 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX044871.D

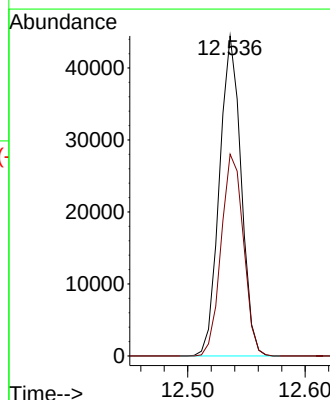
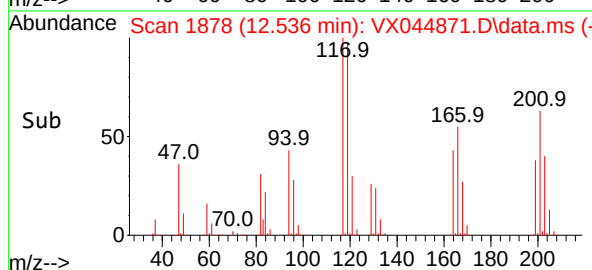
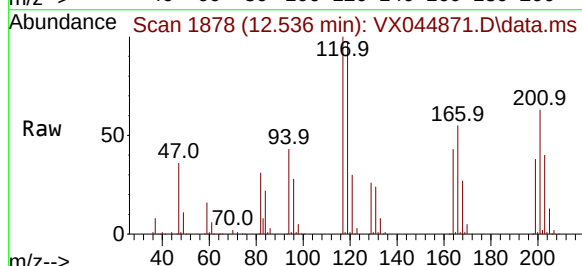
Acq: 10 Feb 2025 11:34

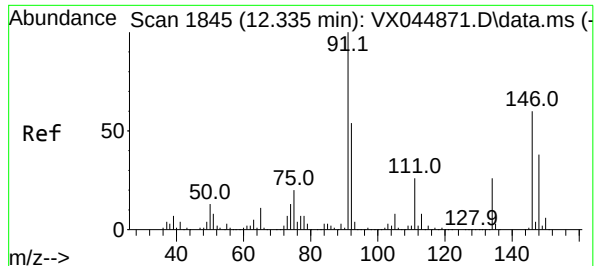
Tgt Ion:117 Resp: 56951

Ion Ratio Lower Upper

117 100

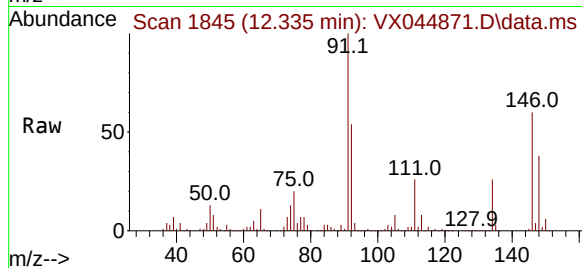
201 65.0 32.5 97.5





#91
1,2-Dichlorobenzene
Concen: 50.500 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

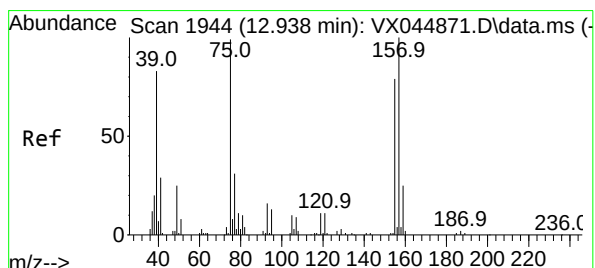
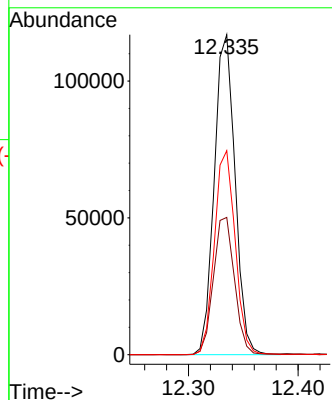
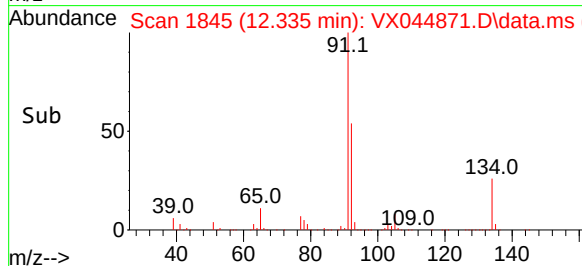
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



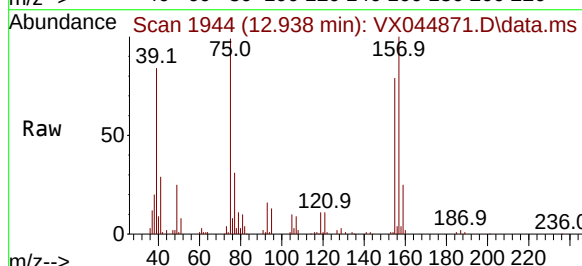
Tgt Ion:146 Resp: 154364
Ion Ratio Lower Upper
146 100
111 43.6 21.8 65.4
148 63.9 31.9 95.9

Manual Integrations
APPROVED

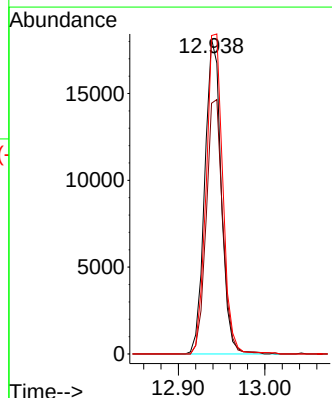
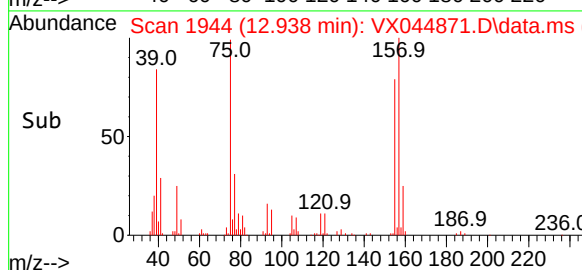
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

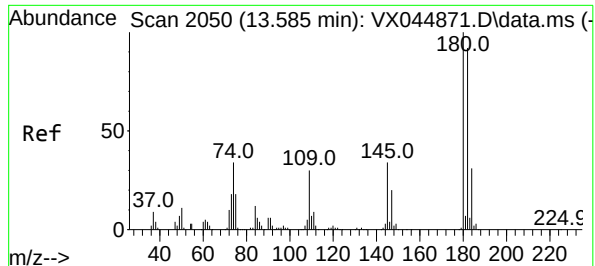


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.135 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34



Tgt Ion: 75 Resp: 23924
Ion Ratio Lower Upper
75 100
155 80.9 40.5 121.4
157 102.9 51.4 154.3





#93

1,2,4-Trichlorobenzene

Concen: 50.747 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:180 Resp: 9386

Ion Ratio Lower Upper

180 100

182 95.2 47.6 142.8

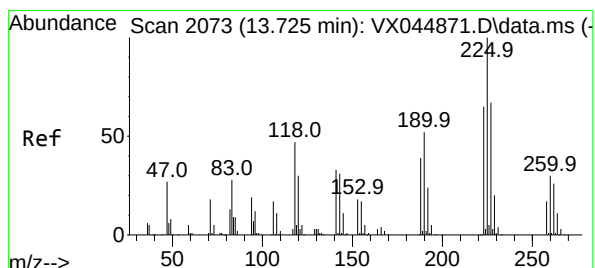
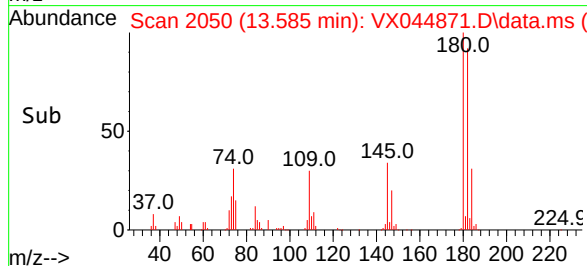
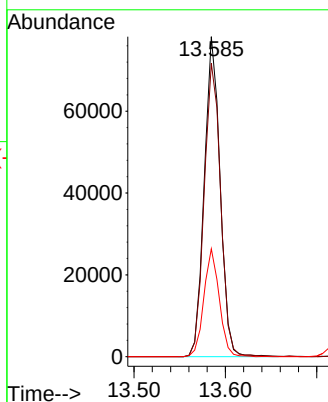
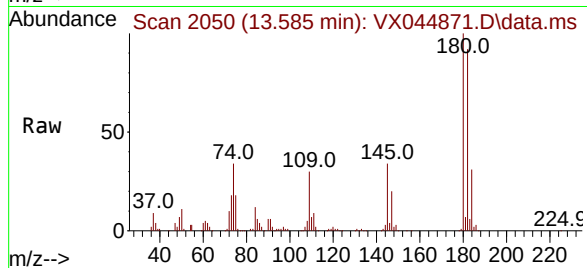
145 32.7 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#94

Hexachlorobutadiene

Concen: 48.321 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX044871.D

Acq: 10 Feb 2025 11:34

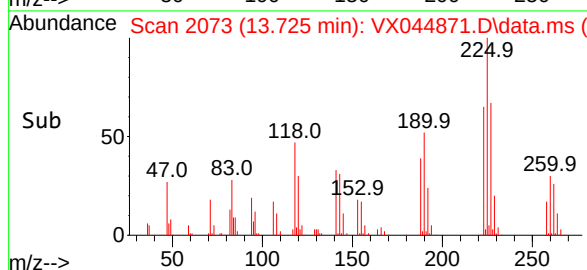
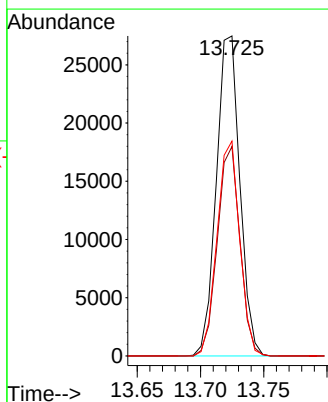
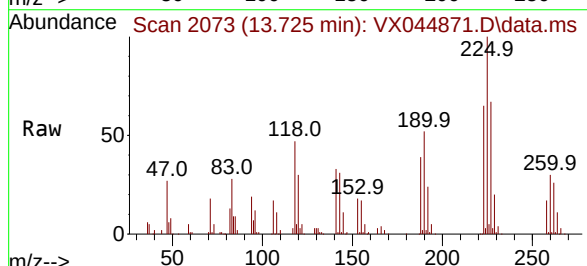
Tgt Ion:225 Resp: 35481

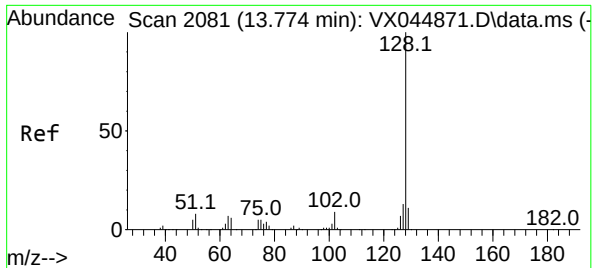
Ion Ratio Lower Upper

225 100

223 62.8 31.4 94.2

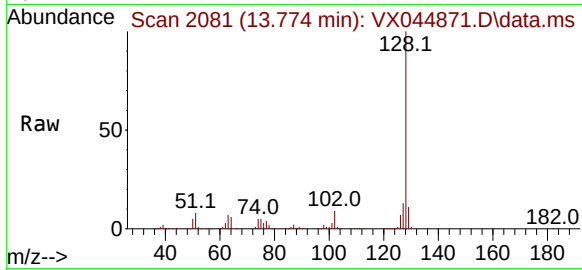
227 64.5 32.3 96.8





#95
Naphthalene
Concen: 51.995 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

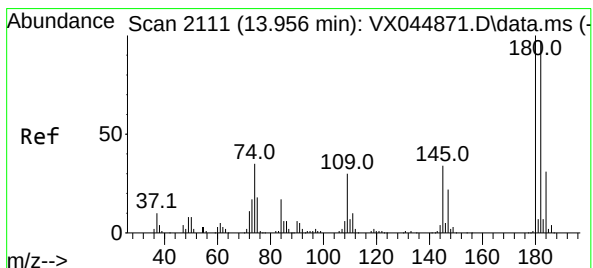
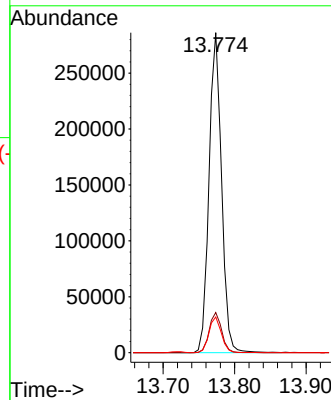
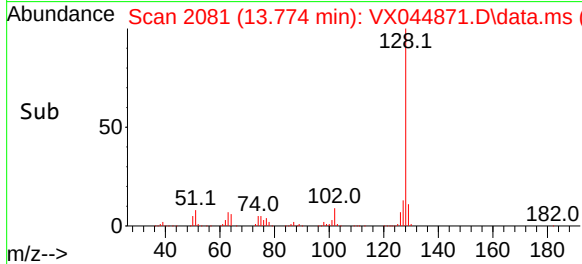
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:128 Resp: 347649
Ion Ratio Lower Upper
128 100
127 12.6 10.1 15.1
129 11.1 8.9 13.3

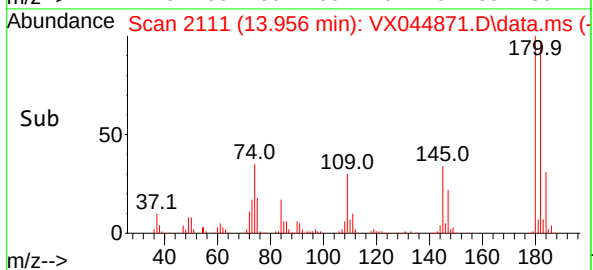
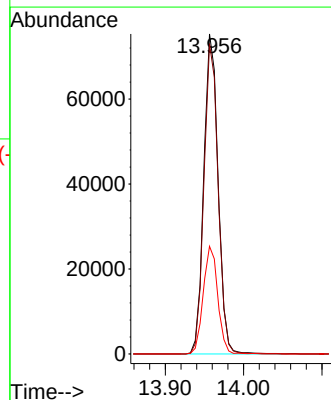
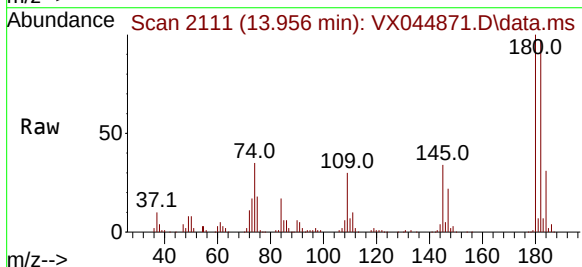
Manual Integrations
APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.245 ug/l
RT: 13.956 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:180 Resp: 95510
Ion Ratio Lower Upper
180 100
182 95.7 47.9 143.6
145 34.2 17.1 51.3





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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1250 SAS No.: Q1250 SDG No.: Q1250

Instrument ID: MSVOA_X Calibration Date/Time: 02/10/2025 19:32

Lab File ID: VX044891.D Init. Calib. Date(s): 02/10/2025 02/10/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:25 12:28

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.854	0.831	0.1	-2.69	50
Vinyl Chloride	0.827	0.785		-5.08	50
Bromomethane	0.247	0.245		-0.81	50
Chloroethane	0.307	0.279		-9.12	50
Trichlorofluoromethane	1.046	1.008		-3.63	50
1,1,2-Trichlorotrifluoroethane	0.632	0.593		-6.17	50
1,1-Dichloroethene	0.644	0.635		-1.4	50
Acetone	0.294	0.310		5.44	50
Carbon Disulfide	1.767	1.726		-2.32	50
Methyl tert-butyl Ether	2.050	2.132		4	50
Methylene Chloride	0.721	0.714		-0.97	50
trans-1,2-Dichloroethene	0.634	0.636		0.31	50
1,1-Dichloroethane	1.233	1.250	0.1	1.38	50
2-Butanone	0.478	0.524		9.62	50
Carbon Tetrachloride	0.460	0.438		-4.78	50
cis-1,2-Dichloroethene	0.762	0.787		3.28	50
Chloroform	1.196	1.210		1.09	50
1,1,1-Trichloroethane	1.014	1.008		-0.59	50
Methylcyclohexane	0.606	0.575		-5.12	50
Benzene	1.465	1.458		-0.48	50
1,2-Dichloroethane	0.467	0.487		4.28	50
Trichloroethene	0.335	0.330		-1.49	50
1,2-Dichloropropane	0.364	0.373		2.47	50
Bromodichloromethane	0.489	0.511		4.5	50
4-Methyl-2-Pentanone	0.512	0.566		10.55	50
Toluene	0.872	0.879		0.8	50
t-1,3-Dichloropropene	0.495	0.512		3.43	50
cis-1,3-Dichloropropene	0.552	0.577		4.53	50
1,1,2-Trichloroethane	0.335	0.350		4.48	50
2-Hexanone	0.369	0.413		11.92	50
Dibromochloromethane	0.359	0.384		6.96	50
Tetrachloroethene	0.315	0.293		-6.98	50
Chlorobenzene	1.074	1.078	0.3	0.37	50
Ethyl Benzene	1.895	1.898		0.16	50
m/p-Xylenes	0.699	0.704		0.71	50
o-Xylene	0.701	0.707		0.86	50
Styrene	1.130	1.169		3.45	50
Bromoform	0.258	0.270	0.1	4.65	50

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



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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06
 Lab Code: CHEM Case No.: Q1250 SAS No.: Q1250 SDG No.: Q1250
 Instrument ID: MSVOA_X Calibration Date/Time: 02/10/2025 19:32
 Lab File ID: VX044891.D Init. Calib. Date(s): 02/10/2025 02/10/2025
 Heated Purge: (Y/N) N Init. Calib. Time(s): 10:25 12:28
 GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	4.026	4.020		-0.15	50
1,1,2,2-Tetrachloroethane	1.383	1.415	0.3	2.31	50
1,3-Dichlorobenzene	1.678	1.664		-0.83	50
1,4-Dichlorobenzene	1.697	1.666		-1.83	50
1,2-Dichlorobenzene	1.650	1.683		2	50
1,2-Dichloroethane-d4	0.732	0.679		-7.24	50
Dibromofluoromethane	0.325	0.294		-9.54	50
Toluene-d8	1.229	1.099		-10.58	50
4-Bromofluorobenzene	0.414	0.382		-7.73	50

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\VX021025\
 Data File : VX044891.D
 Acq On : 10 Feb 2025 19:32
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 06:11:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	115948	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	215738	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	191319	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	84289	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	78682	46.358	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.720%		
35) Dibromofluoromethane	5.379	113	63440	45.228	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	90.460%		
50) Toluene-d8	8.647	98	237006	44.684	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	89.360%		
62) 4-Bromofluorobenzene	11.079	95	82358	46.059	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	92.120%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	77221	47.485	ug/l	98
3) Chloromethane	1.301	50	96397	48.704	ug/l	99
4) Vinyl Chloride	1.374	62	91075	47.498	ug/l	97
5) Bromomethane	1.593	94	28390	49.478	ug/l	96
6) Chloroethane	1.660	64	32296	42.133	ug/l	94
7) Trichlorofluoromethane	1.867	101	116922	48.218	ug/l	97
8) Diethyl Ether	2.136	74	42735	48.595	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	68797	46.958	ug/l	100
10) Methyl Iodide	2.447	142	97419	51.306	ug/l	99
11) Tert butyl alcohol	2.983	59	83894	266.439	ug/l	100
12) 1,1-Dichloroethene	2.306	96	73574	49.231	ug/l	98
13) Acrolein	2.233	56	95871	295.107	ug/l	99
14) Allyl chloride	2.654	41	135533	50.181	ug/l	99
15) Acrylonitrile	3.062	53	224480	267.016	ug/l	98
16) Acetone	2.386	43	179829	263.557	ug/l	98
17) Carbon Disulfide	2.502	76	200125	48.833	ug/l	97
18) Methyl Acetate	2.703	43	116030	53.889	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	247199	51.988	ug/l	100
20) Methylene Chloride	2.782	84	82837	49.565	ug/l	99
21) trans-1,2-Dichloroethene	3.087	96	73728	50.125	ug/l	95
22) Diisopropyl ether	3.757	45	267639	52.378	ug/l	98
23) Vinyl Acetate	3.715	43	1125714	270.230	ug/l	99
24) 1,1-Dichloroethane	3.605	63	144915	50.685	ug/l	98
25) 2-Butanone	4.556	43	303934	274.319	ug/l	98
26) 2,2-Dichloropropane	4.471	77	103730	45.749	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	91233	51.638	ug/l	97
28) Bromochloromethane	4.891	49	65658	47.785	ug/l	100
29) Tetrahydrofuran	5.001	42	198201	269.401	ug/l	99
30) Chloroform	5.086	83	140239	50.578	ug/l	99
31) Cyclohexane	5.464	56	123375	46.807	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	116926	49.716	ug/l	99
36) 1,1-Dichloropropene	5.684	75	95829	47.355	ug/l	99
37) Ethyl Acetate	4.715	43	116299	51.668	ug/l	100
38) Carbon Tetrachloride	5.672	117	94537	47.672	ug/l	99
39) Methylcyclohexane	7.373	83	124154	47.455	ug/l	99
40) Benzene	6.031	78	314544	49.777	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044891.D
 Acq On : 10 Feb 2025 19:32
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 06:11:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	65275	54.178	ug/l	99
42) 1,2-Dichloroethane	6.080	62	104957	52.115	ug/l	99
43) Isopropyl Acetate	6.336	43	194726	53.572	ug/l	100
44) Trichloroethene	7.123	130	71158	49.266	ug/l	97
45) 1,2-Dichloropropane	7.427	63	80414	51.151	ug/l	99
46) Dibromomethane	7.574	93	55925	51.296	ug/l	99
47) Bromodichloromethane	7.818	83	110205	52.204	ug/l	99
48) Methyl methacrylate	7.690	41	93901	54.789	ug/l	100
49) 1,4-Dioxane	7.659	88	39798	1082.326	ug/l	98
51) 4-Methyl-2-Pentanone	8.574	43	610241	276.156	ug/l	100
52) Toluene	8.714	92	189645	50.393	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	110530	51.740	ug/l	100
54) cis-1,3-Dichloropropene	8.360	75	124522	52.280	ug/l	99
55) 1,1,2-Trichloroethane	9.147	97	75589	52.250	ug/l	99
56) Ethyl methacrylate	9.116	69	128175	54.857	ug/l	100
57) 1,3-Dichloropropane	9.305	76	132017	52.155	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	326171	284.305	ug/l	100
59) 2-Hexanone	9.427	43	445445	279.774	ug/l	100
60) Dibromochloromethane	9.519	129	82791	53.511	ug/l	99
61) 1,2-Dibromoethane	9.604	107	77866	53.105	ug/l	99
64) Tetrachloroethene	9.269	164	56005	46.418	ug/l	99
65) Chlorobenzene	10.073	112	206256	50.193	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	66711	50.438	ug/l	99
67) Ethyl Benzene	10.189	91	363173	50.082	ug/l	100
68) m/p-Xylenes	10.299	106	269208	100.639	ug/l	99
69) o-Xylene	10.640	106	135252	50.390	ug/l	98
70) Styrene	10.652	104	223631	51.714	ug/l	99
71) Bromoform	10.799	173	51655	52.331	ug/l #	98
73) Isopropylbenzene	10.957	105	338855	49.928	ug/l	100
74) N-amyl acetate	10.841	43	168475	54.857	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	119242	51.129	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	96224m	51.489	ug/l	
77) Bromobenzene	11.195	156	77606	50.436	ug/l	99
78) n-propylbenzene	11.299	91	394875	50.408	ug/l	100
79) 2-Chlorotoluene	11.360	91	238786	49.597	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	274691	49.875	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	36015	49.574	ug/l	96
82) 4-Chlorotoluene	11.451	91	264864	49.726	ug/l	98
83) tert-Butylbenzene	11.713	119	277267	49.764	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	279774	51.468	ug/l	100
85) sec-Butylbenzene	11.890	105	345620	50.095	ug/l	99
86) p-Isopropyltoluene	12.006	119	278839	50.257	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	140288	49.579	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	140405	49.077	ug/l	99
89) n-Butylbenzene	12.329	91	255034	51.957	ug/l	99
90) Hexachloroethane	12.536	117	51905	49.962	ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	141887	51.021	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	22829	53.634	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	85013	50.520	ug/l	98
94) Hexachlorobutadiene	13.725	225	31079	46.524	ug/l	100
95) Naphthalene	13.774	128	321815	52.905	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	86663	51.110	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044891.D
Acq On : 10 Feb 2025 19:32
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By : John Carlone 02/11/2025
Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 06:11:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

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

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

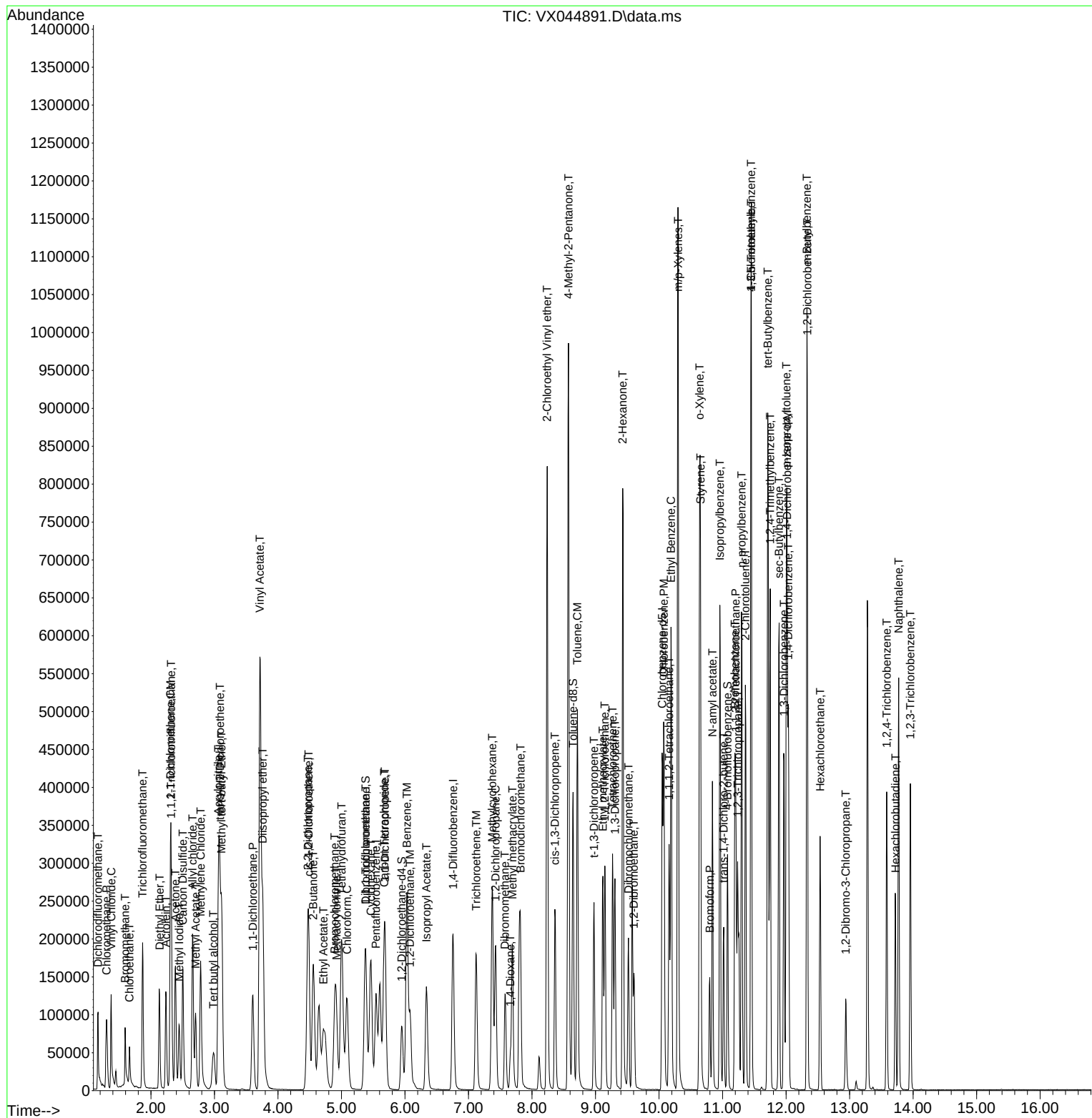
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 Data File : VX044891.D
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 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

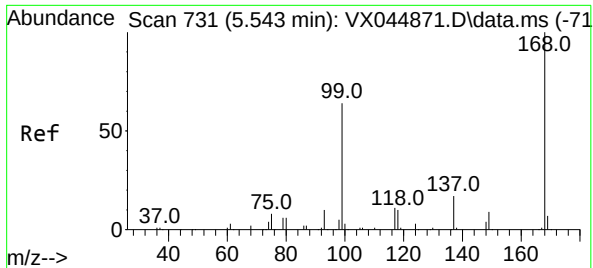
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By : John Carlone 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

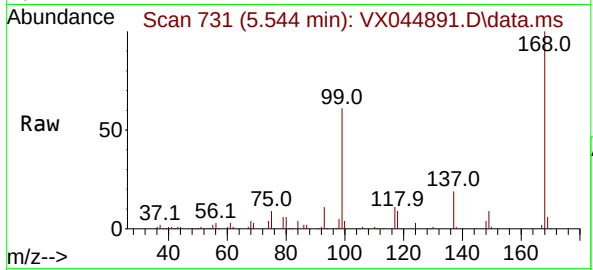
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 731
Delta R.T. 0.001 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

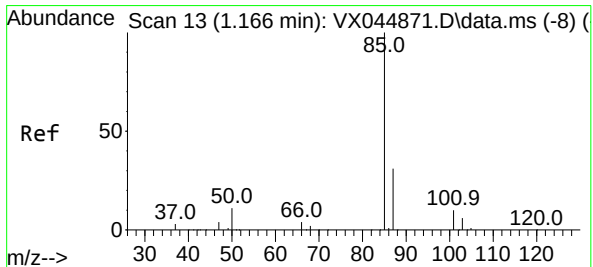
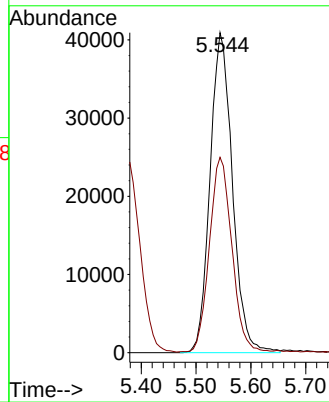
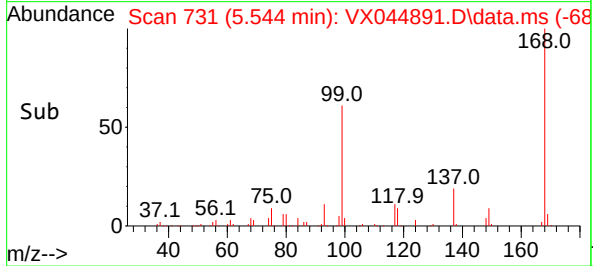
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 168 Resp: 11594
Ion Ratio Lower Upper
168 100
99 60.8 51.2 76.8

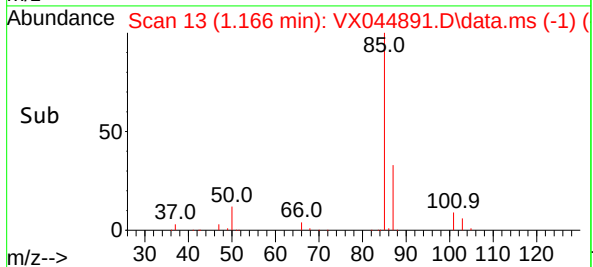
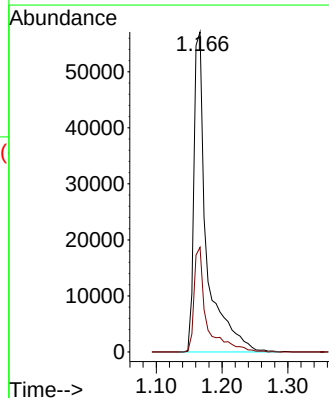
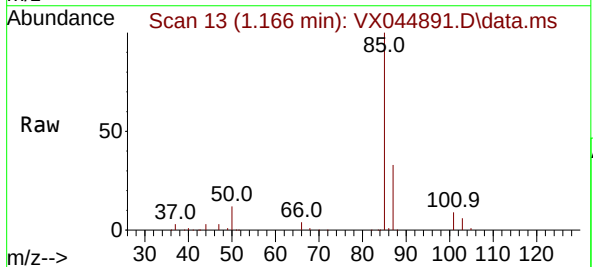
Manual Integrations
APPROVED

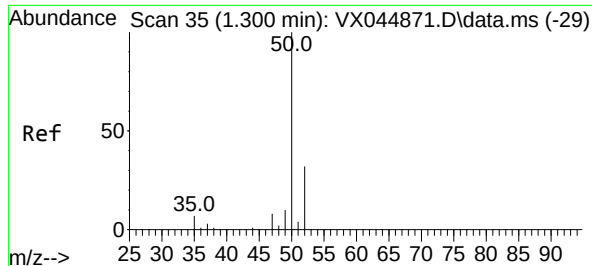
Reviewed By : John Carlone 02/11/2025
Supervised By : Mahesh Dadoda 02/11/2025



#2
Dichlorodifluoromethane
Concen: 47.485 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

Tgt Ion: 85 Resp: 77221
Ion Ratio Lower Upper
85 100
87 32.7 15.8 47.3





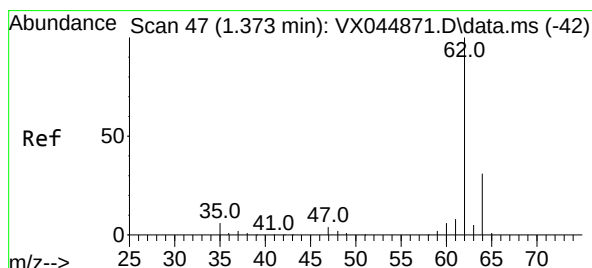
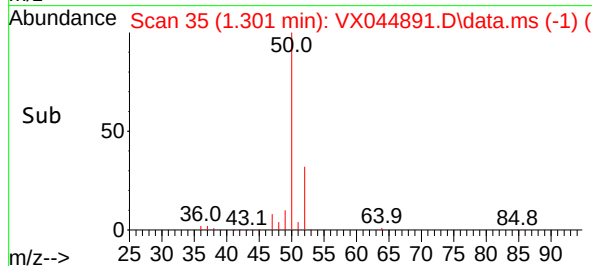
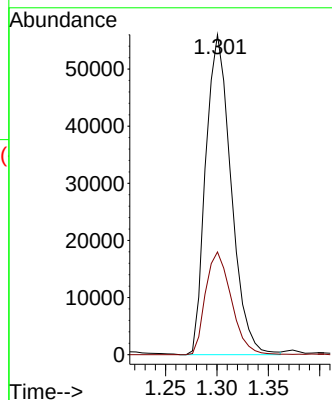
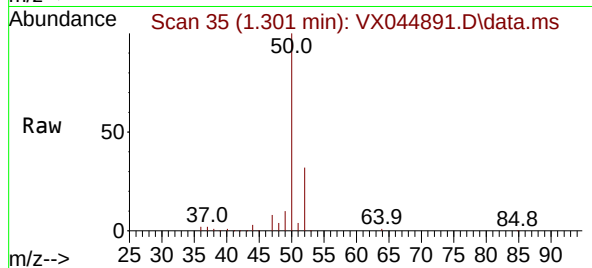
#3
Chloromethane
Concen: 48.704 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 9639
Ion Ratio Lower Upper
50 100
52 32.1 25.9 38.9

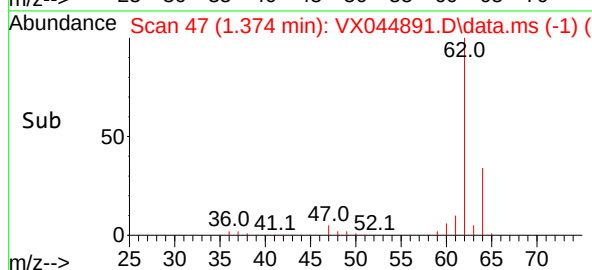
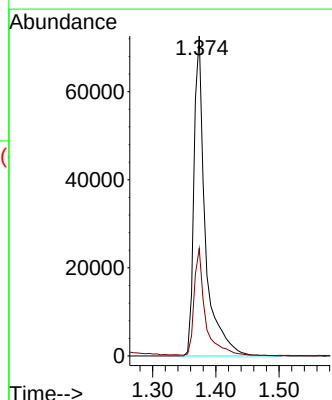
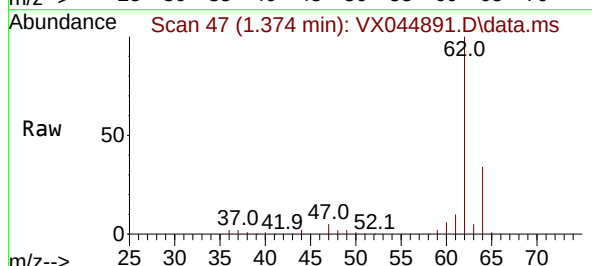
Manual Integrations
APPROVED

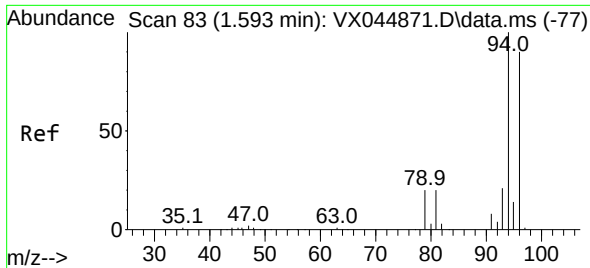
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#4
Vinyl Chloride
Concen: 47.498 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

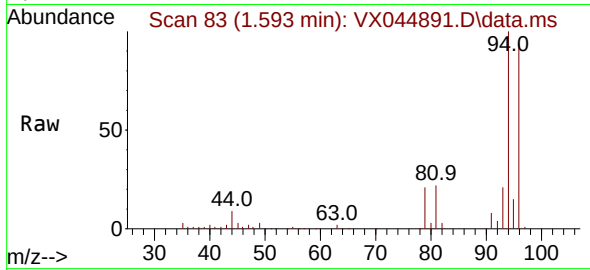
Tgt Ion: 62 Resp: 91075
Ion Ratio Lower Upper
62 100
64 33.4 25.4 38.0





#5
Bromomethane
Concen: 49.478 ug/l
RT: 1.593 min Scan# 83
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

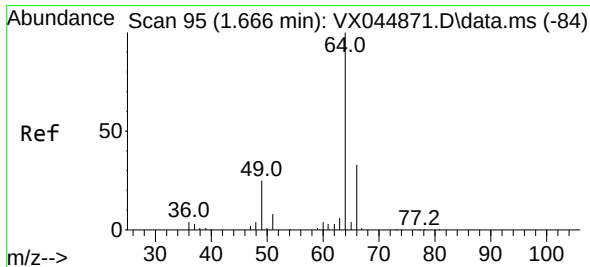
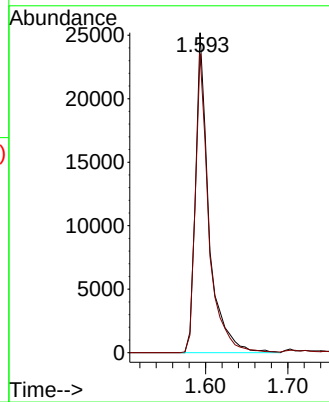
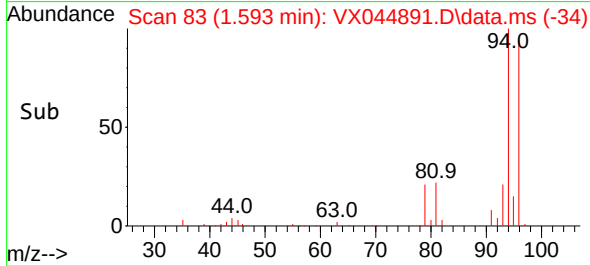
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 94 Resp: 28390
Ion Ratio Lower Upper
94 100
96 93.5 71.6 107.4

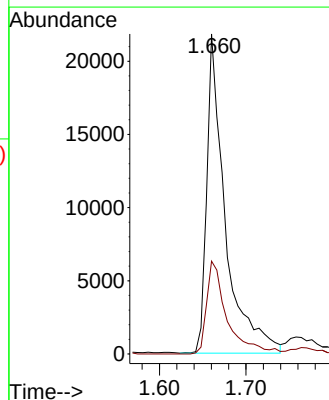
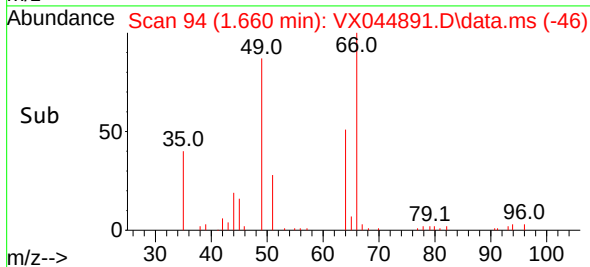
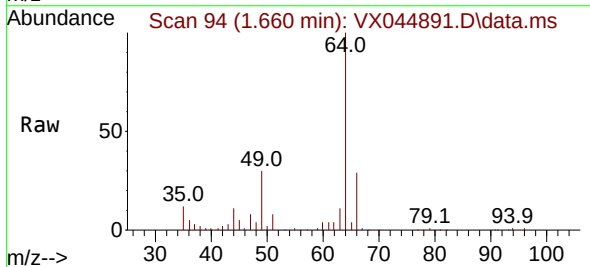
Manual Integrations
APPROVED

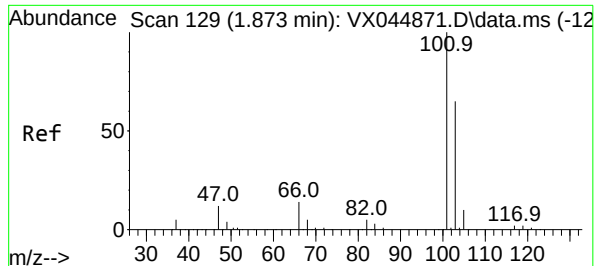
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#6
Chloroethane
Concen: 42.133 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

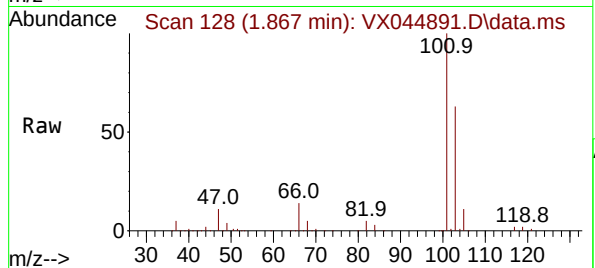
Tgt Ion: 64 Resp: 32296
Ion Ratio Lower Upper
64 100
66 29.1 25.9 38.9





#7
Trichlorofluoromethane
Concen: 48.218 ug/l
RT: 1.867 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

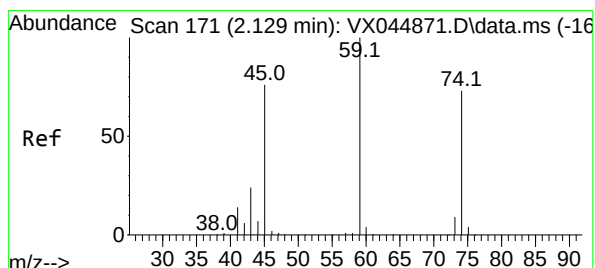
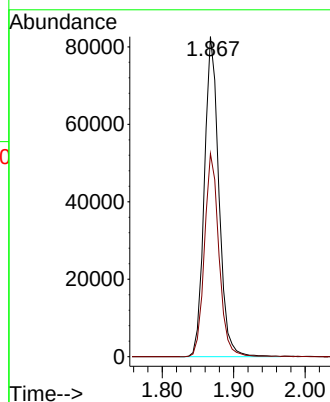
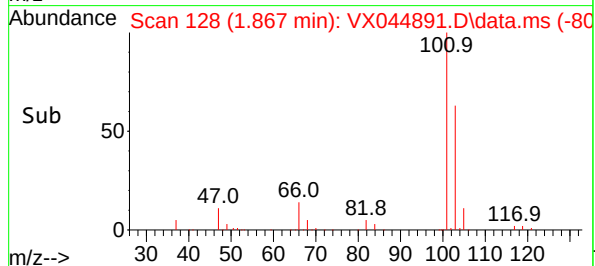
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC



Tgt Ion:101 Resp: 11692
Ion Ratio Lower Upper
101 100
103 63.4 52.4 78.6

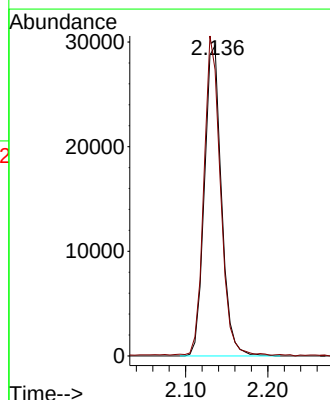
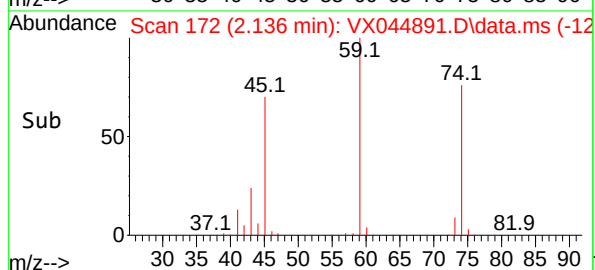
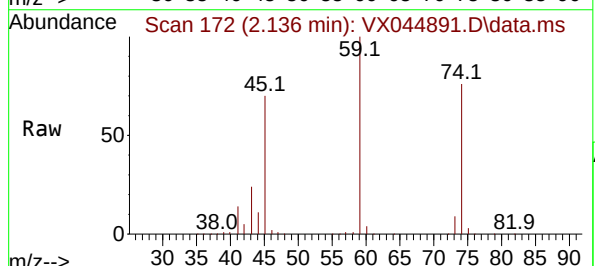
Manual Integrations
APPROVED

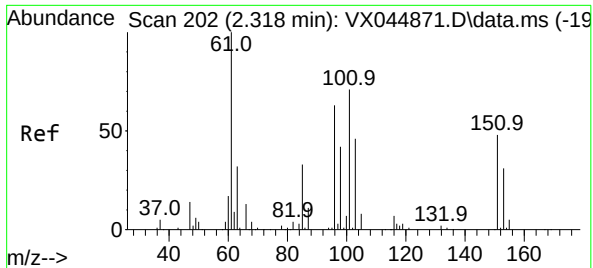
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#8
Diethyl Ether
Concen: 48.595 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.007 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

Tgt Ion: 74 Resp: 42735
Ion Ratio Lower Upper
74 100
45 100.2 51.1 153.4





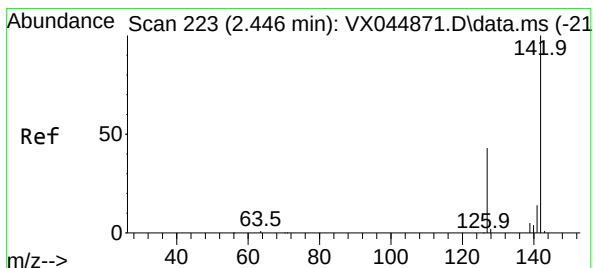
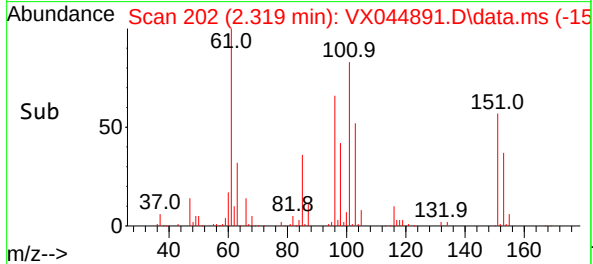
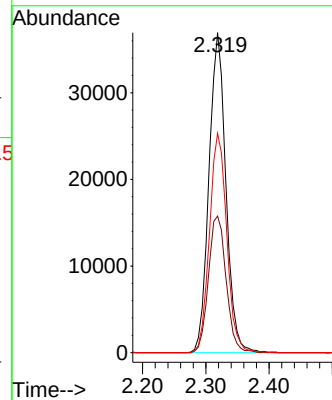
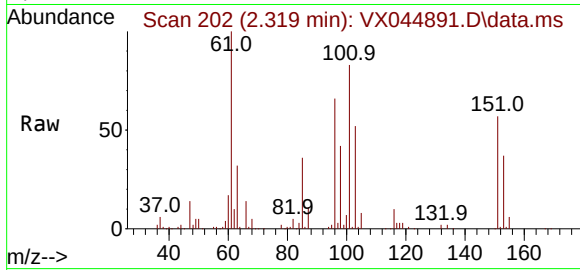
#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.958 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 6879
Ion Ratio Lower Upper
101 100
85 44.7 35.7 53.5
151 70.0 56.0 84.0

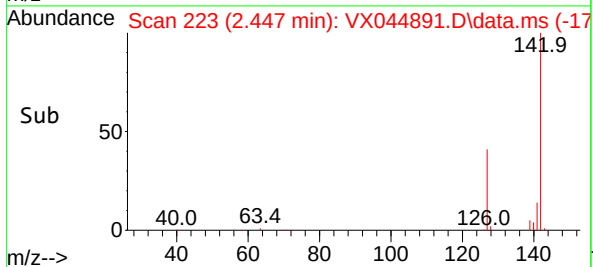
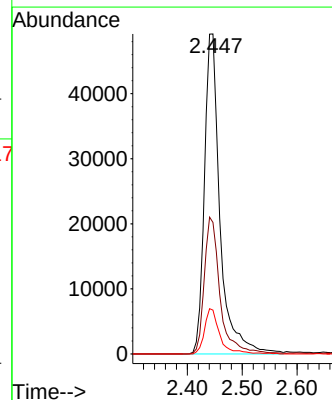
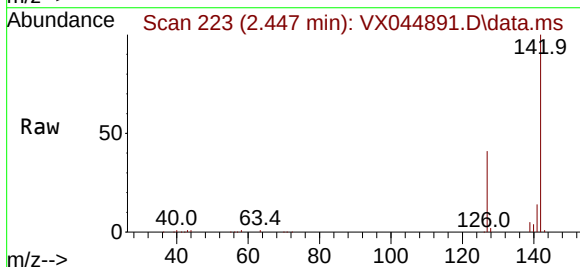
Manual Integrations
APPROVED

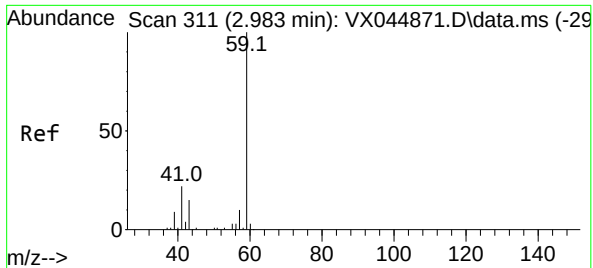
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#10
Methyl Iodide
Concen: 51.306 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

Tgt Ion:142 Resp: 97419
Ion Ratio Lower Upper
142 100
127 43.4 34.3 51.5
141 13.9 11.4 17.2





#11

Tert butyl alcohol

Concen: 266.439 ug/l

RT: 2.983 min Scan# 311

Delta R.T. 0.000 min

Lab File: VX044891.D

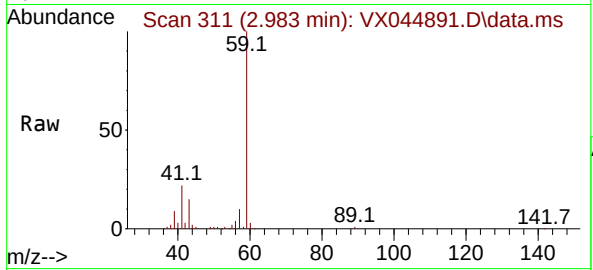
Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

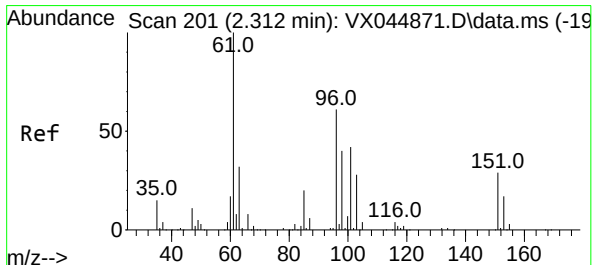
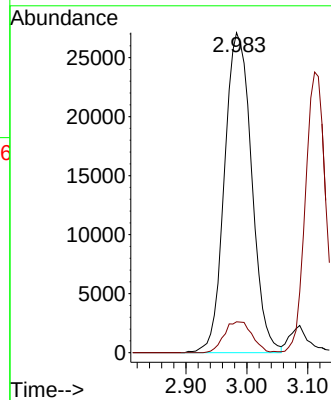
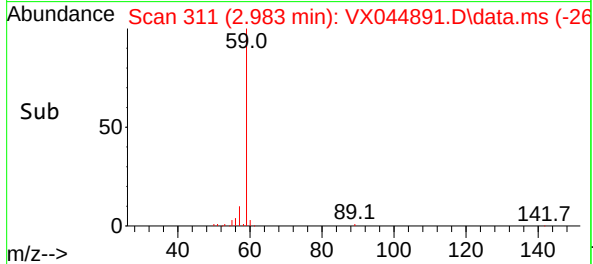
VSTDCCC050EC



Tgt Ion: 59 Resp: 83894
Ion Ratio Lower Upper
59 100
57 10.0 8.1 12.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#12

1,1-Dichloroethene

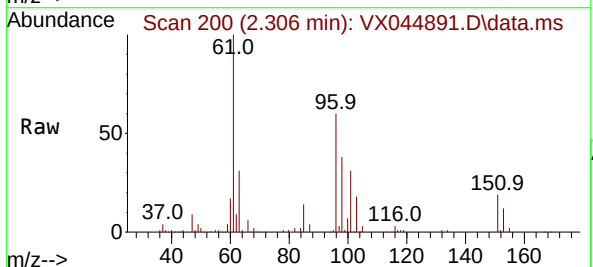
Concen: 49.231 ug/l

RT: 2.306 min Scan# 200

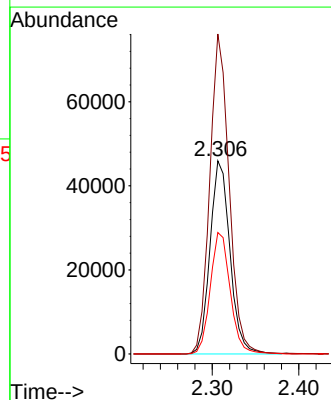
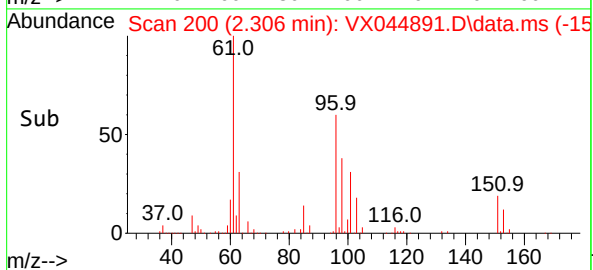
Delta R.T. -0.006 min

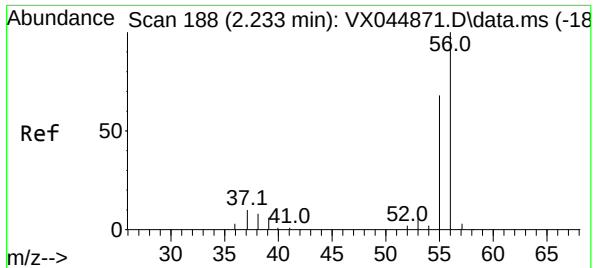
Lab File: VX044891.D

Acq: 10 Feb 2025 19:32



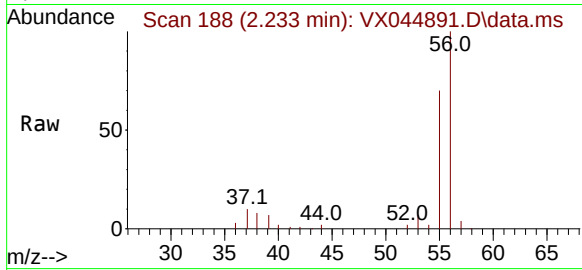
Tgt Ion: 96 Resp: 73574
Ion Ratio Lower Upper
96 100
61 165.7 130.2 195.4
98 62.9 52.2 78.4





#13
Acrolein
Concen: 295.107 ug/l
RT: 2.233 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

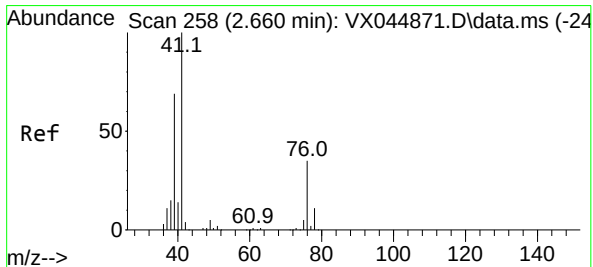
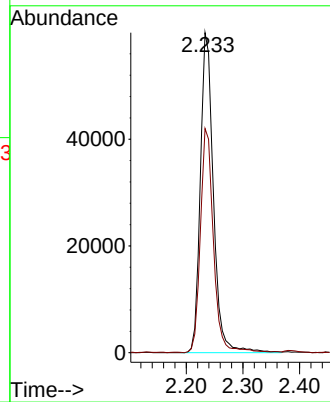
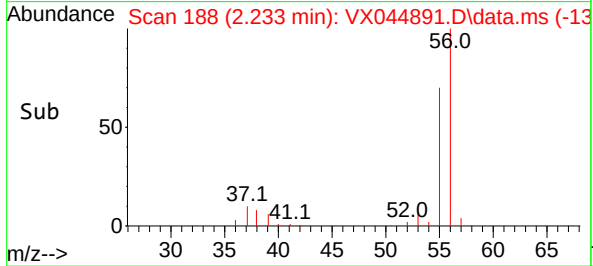
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 56 Resp: 9587
Ion Ratio Lower Upper
56 100
55 70.2 55.7 83.5

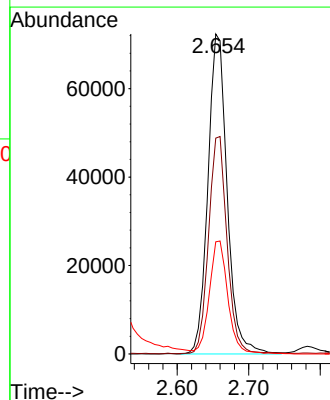
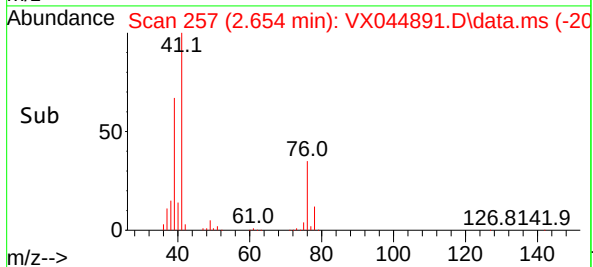
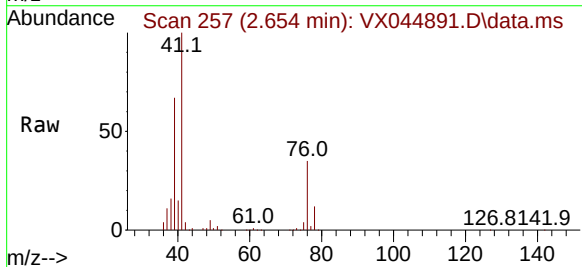
Manual Integrations
APPROVED

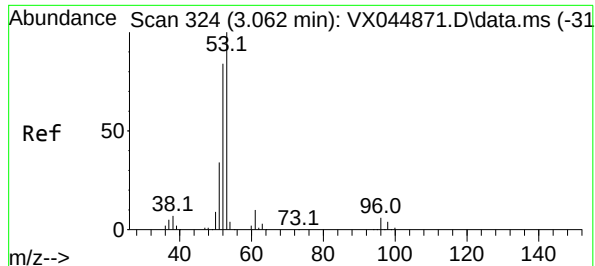
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#14
Allyl chloride
Concen: 50.181 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

Tgt Ion: 41 Resp: 135533
Ion Ratio Lower Upper
41 100
39 64.9 51.4 77.2
76 34.0 27.0 40.4





#15

Acrylonitrile

Concen: 267.016 ug/l

RT: 3.062 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044891.D

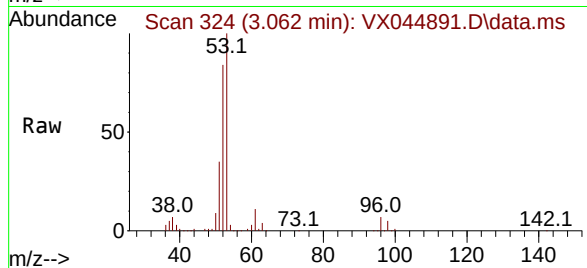
Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC



Tgt Ion: 53 Resp: 224480

Ion Ratio Lower Upper

53 100

52 83.3 65.0 97.6

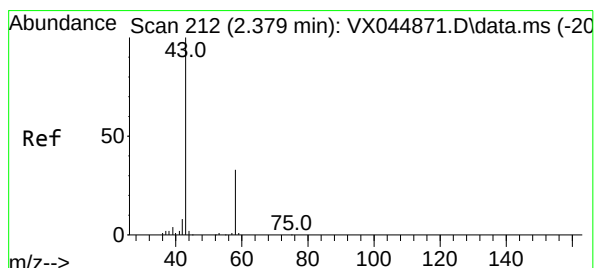
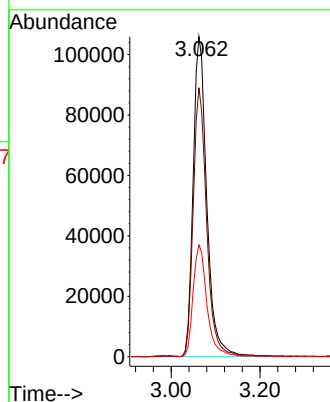
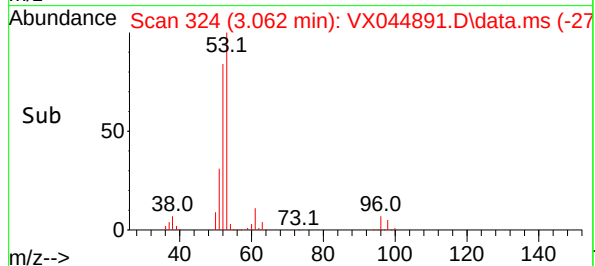
51 35.8 28.0 42.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#16

Acetone

Concen: 263.557 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.006 min

Lab File: VX044891.D

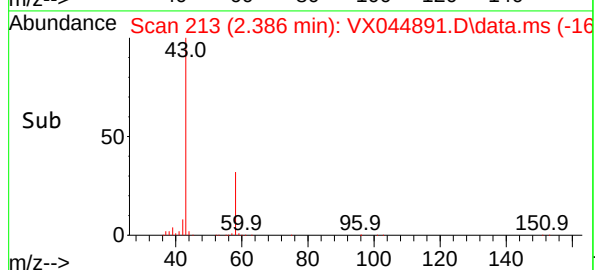
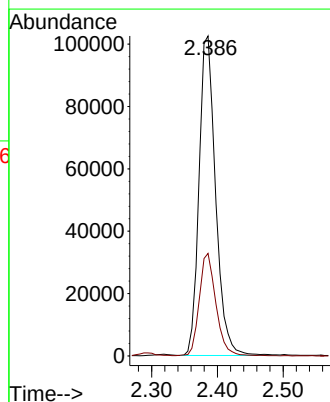
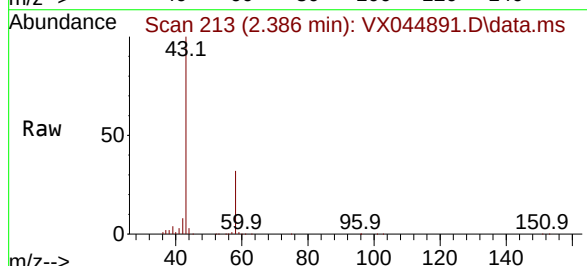
Acq: 10 Feb 2025 19:32

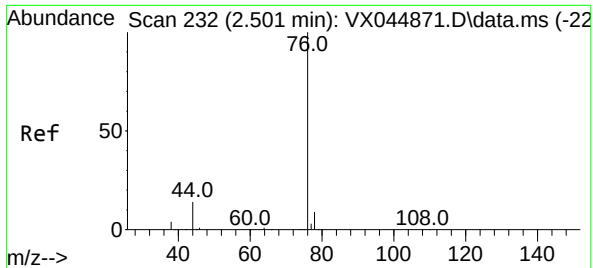
Tgt Ion: 43 Resp: 179829

Ion Ratio Lower Upper

43 100

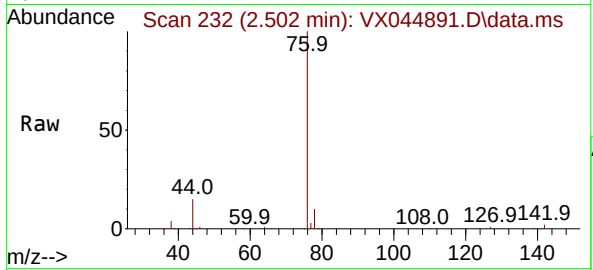
58 32.0 26.5 39.7





#17
Carbon Disulfide
Concen: 48.833 ug/l
RT: 2.502 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

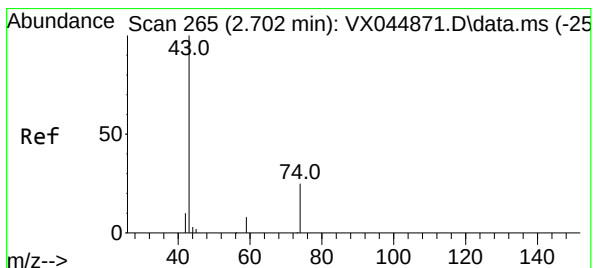
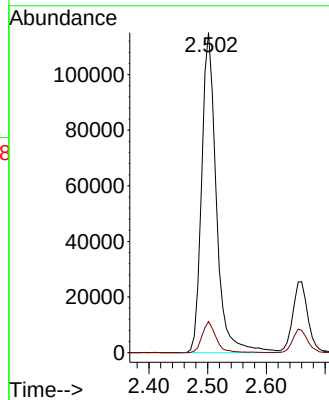
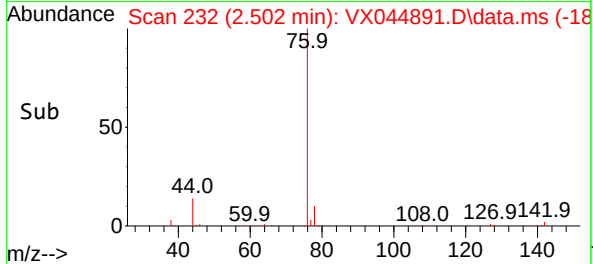
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 76 Resp: 200125
Ion Ratio Lower Upper
76 100
78 9.8 7.0 10.4

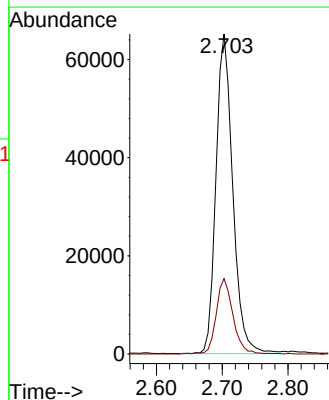
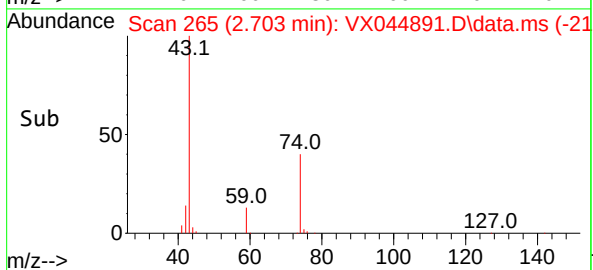
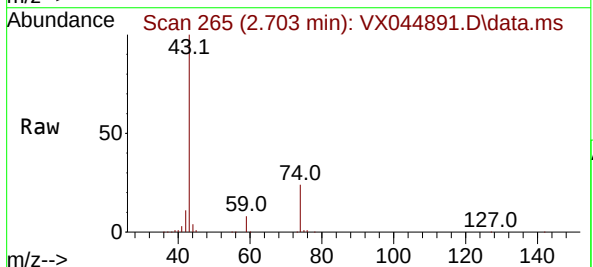
Manual Integrations
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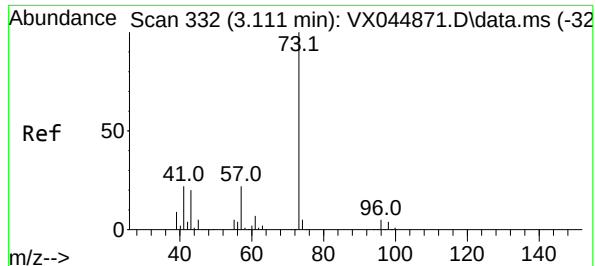
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#18
Methyl Acetate
Concen: 53.889 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

Tgt Ion: 43 Resp: 116030
Ion Ratio Lower Upper
43 100
74 23.5 18.9 28.3





#19

Methyl tert-butyl Ether

Concen: 51.988 ug/l

RT: 3.111 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 73 Resp: 247199

Ion Ratio Lower Upper

73 100

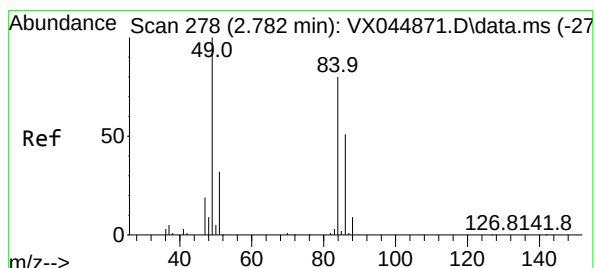
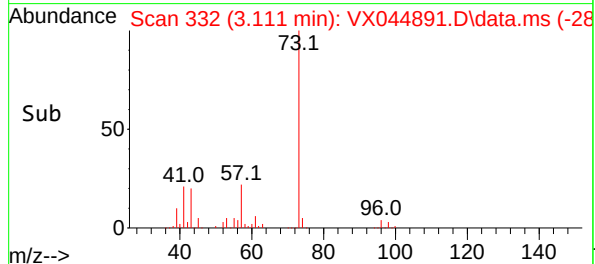
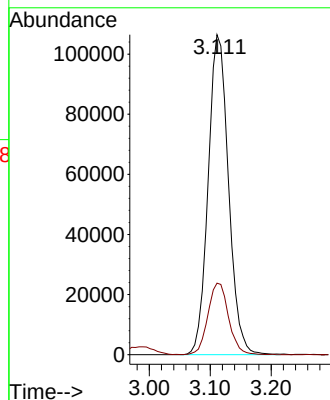
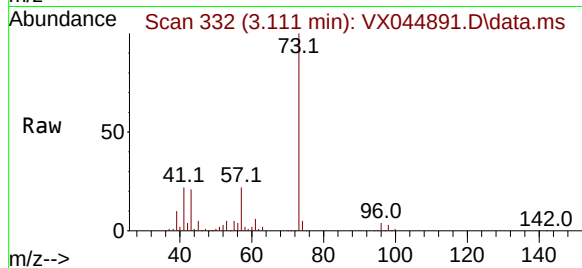
57 22.3 17.9 26.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#20

Methylene Chloride

Concen: 49.565 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Tgt Ion: 84 Resp: 82837

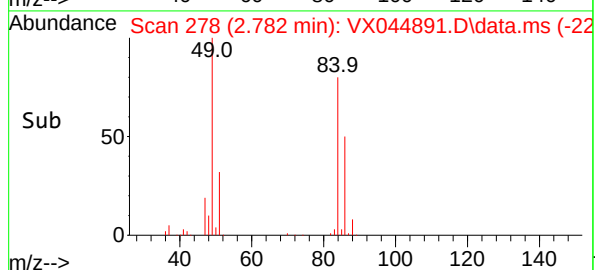
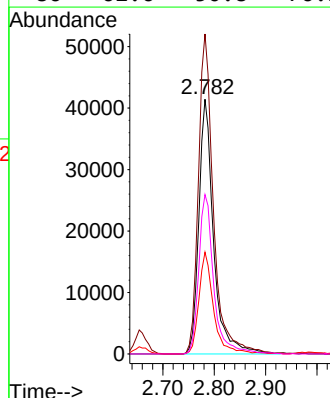
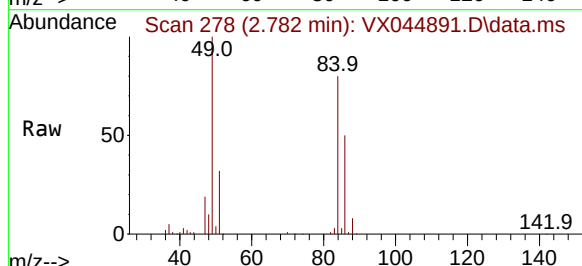
Ion Ratio Lower Upper

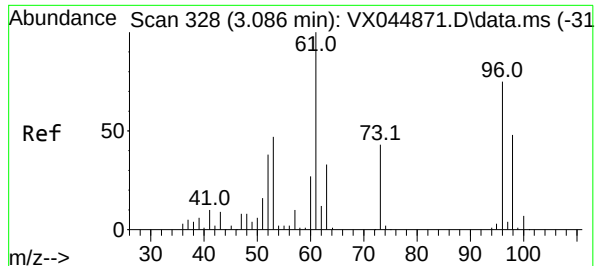
84 100

49 125.6 100.1 150.1

51 40.0 31.7 47.5

86 62.6 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 50.125 ug/l

RT: 3.087 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 96 Resp: 73728

Ion Ratio Lower Upper

96 100

61 140.8 106.0 159.0

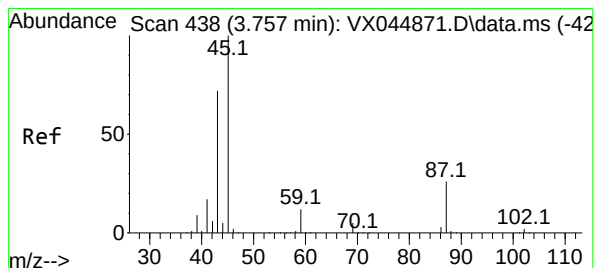
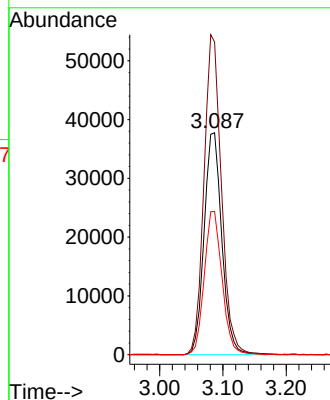
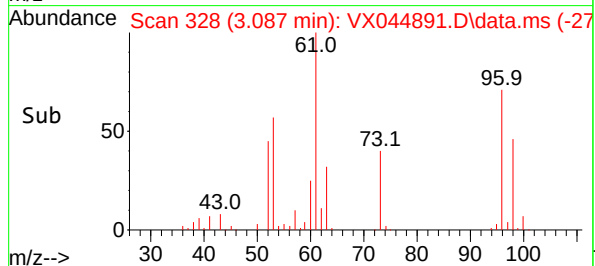
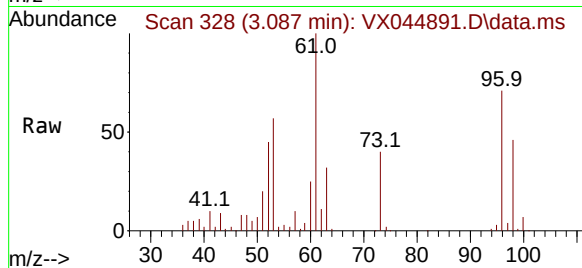
98 64.5 50.6 76.0

Manual Integrations

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Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#22

Diisopropyl ether

Concen: 52.378 ug/l

RT: 3.757 min Scan# 438

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Tgt Ion: 45 Resp: 267639

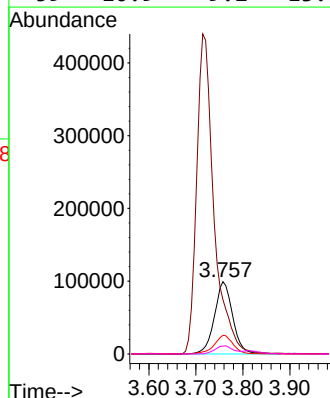
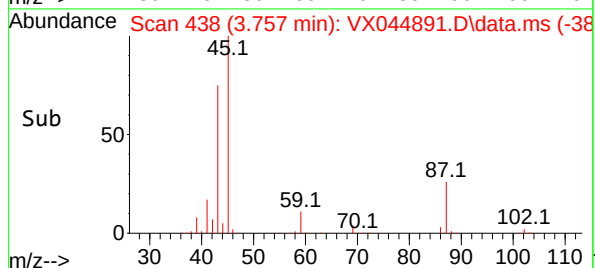
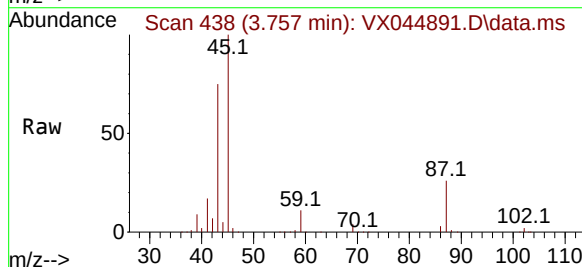
Ion Ratio Lower Upper

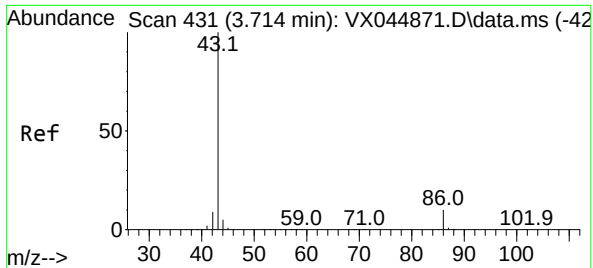
45 100

43 75.1 58.0 87.0

87 25.7 20.7 31.1

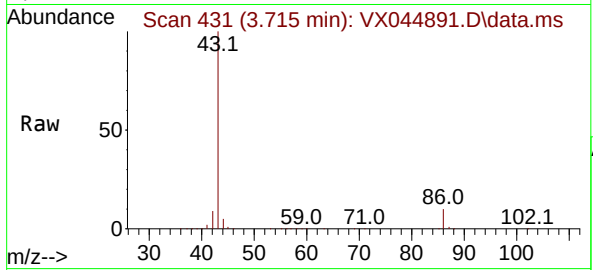
59 10.9 9.2 13.8





#23
Vinyl Acetate
Concen: 270.230 ug/l
RT: 3.715 min Scan# 411
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

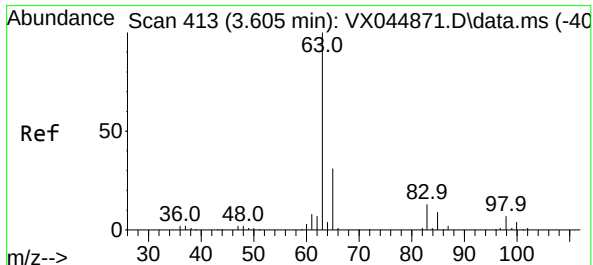
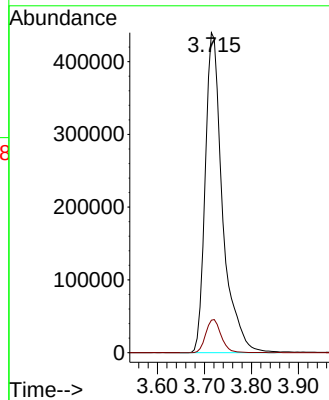
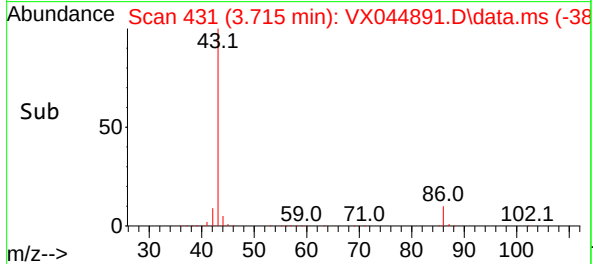
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC



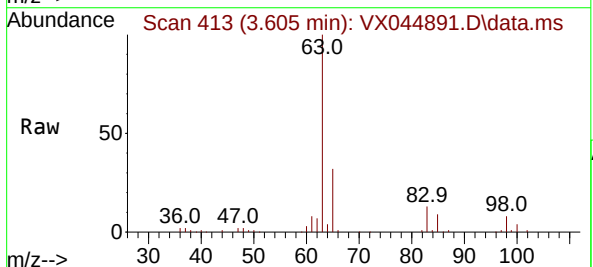
Tgt Ion: 43 Resp: 1125714
Ion Ratio Lower Upper
43 100
86 10.2 8.3 12.5

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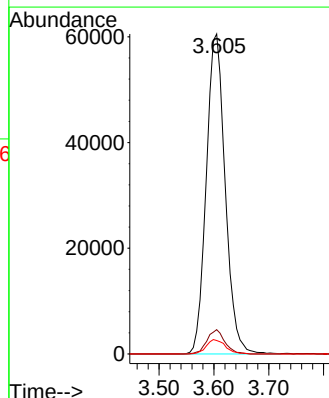
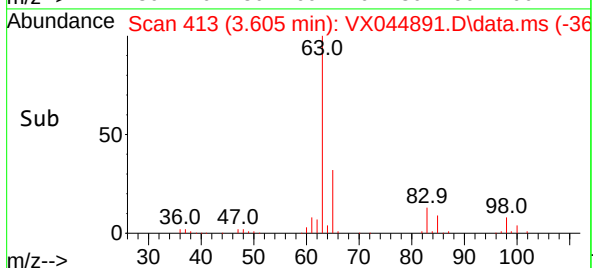
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

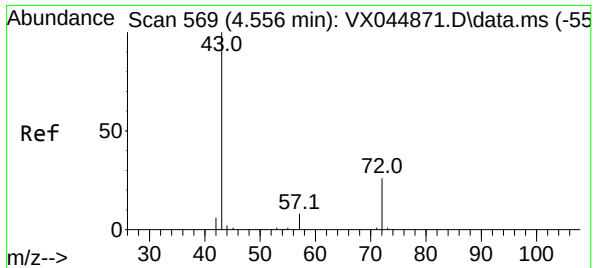


#24
1,1-Dichloroethane
Concen: 50.685 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32



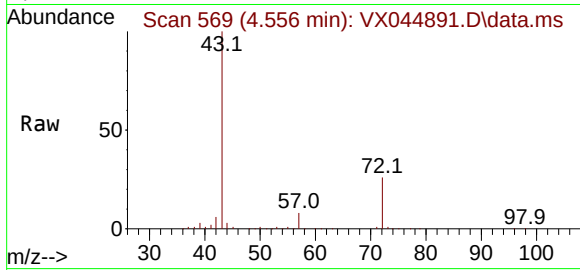
Tgt Ion: 63 Resp: 144915
Ion Ratio Lower Upper
63 100
98 7.6 3.3 9.9
100 4.2 2.1 6.5





#25
2-Butanone
Concen: 274.319 ug/l
RT: 4.556 min Scan# 569
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

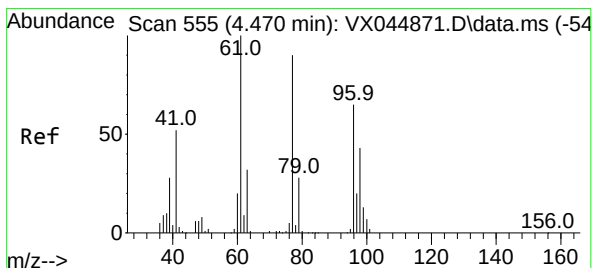
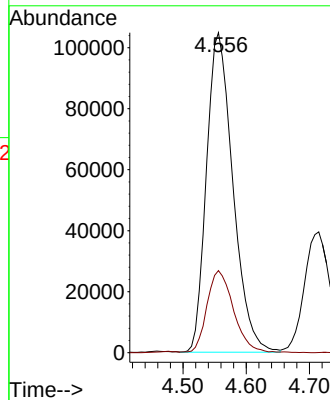
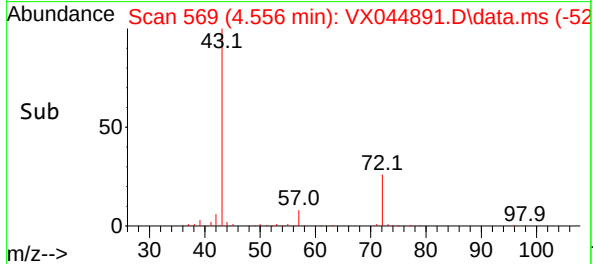
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 43 Resp: 303934
Ion Ratio Lower Upper
43 100
72 25.5 21.2 31.8

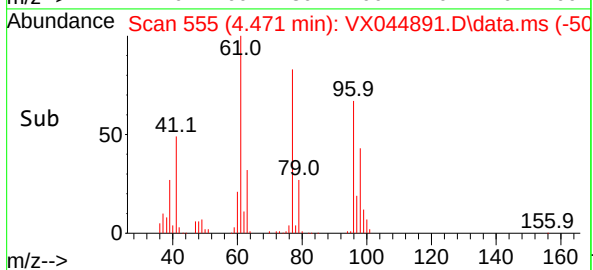
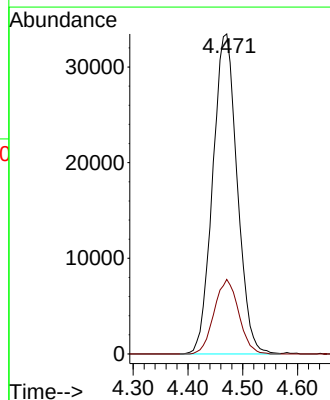
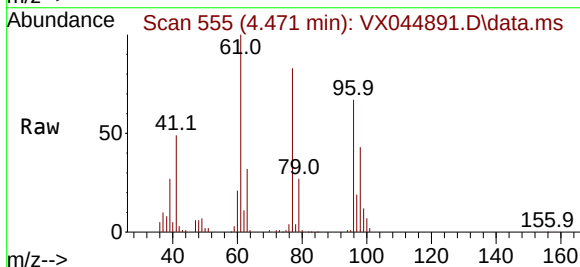
Manual Integrations
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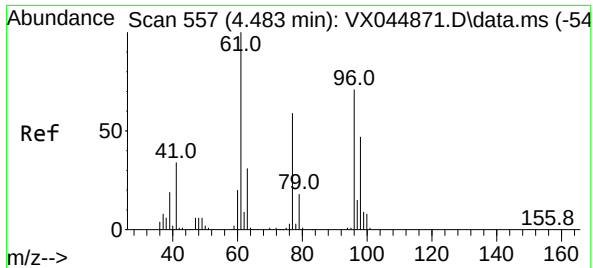
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#26
2,2-Dichloropropane
Concen: 45.749 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

Tgt Ion: 77 Resp: 103730
Ion Ratio Lower Upper
77 100
97 23.3 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 51.638 ug/l

RT: 4.483 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 96 Resp: 9123

Ion Ratio Lower Upper

96 100

61 142.3 0.0 294.0

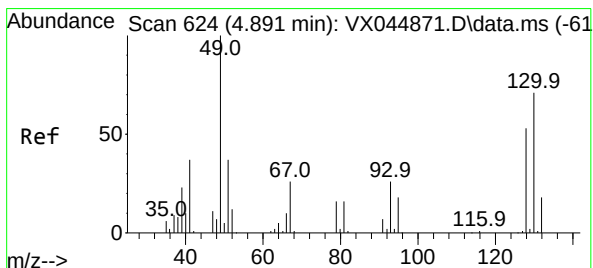
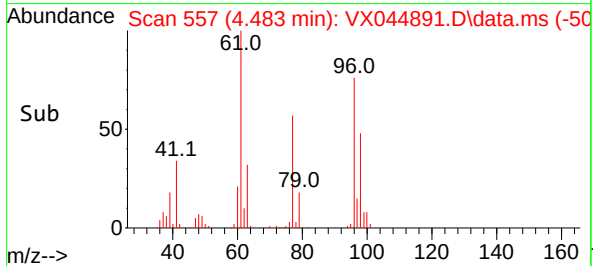
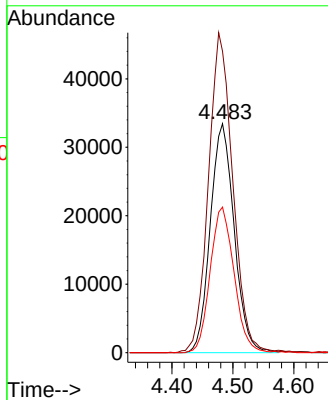
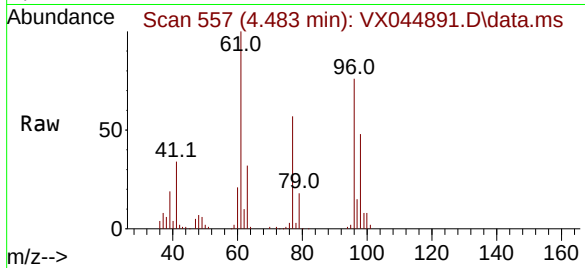
98 63.4 0.0 131.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#28

Bromochloromethane

Concen: 47.785 ug/l

RT: 4.891 min Scan# 624

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

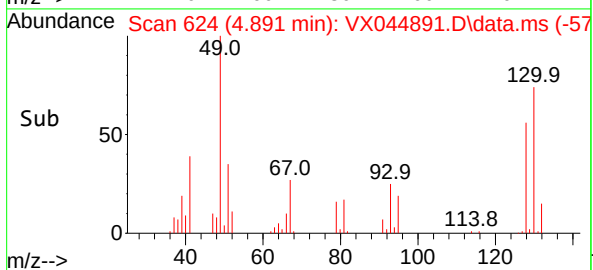
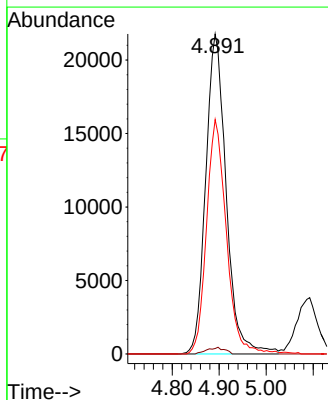
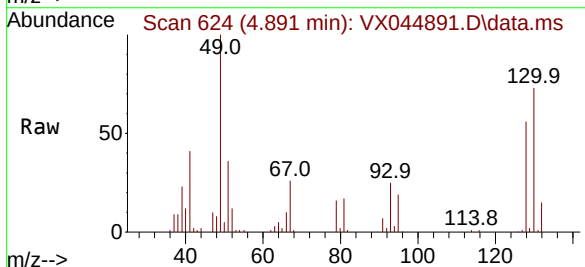
Tgt Ion: 49 Resp: 65658

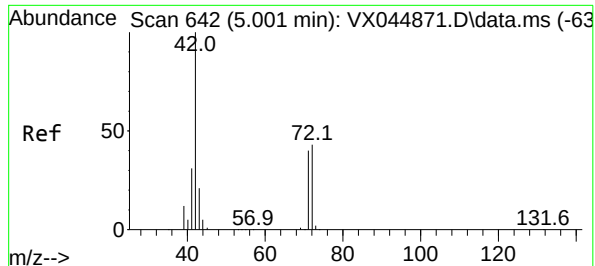
Ion Ratio Lower Upper

49 100

129 1.8 0.0 3.6

130 71.1 56.7 85.1





#29

Tetrahydrofuran

Concen: 269.401 ug/l

RT: 5.001 min Scan# 642

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 42 Resp: 19820

Ion Ratio Lower Upper

42 100

72 44.3 35.0 52.4

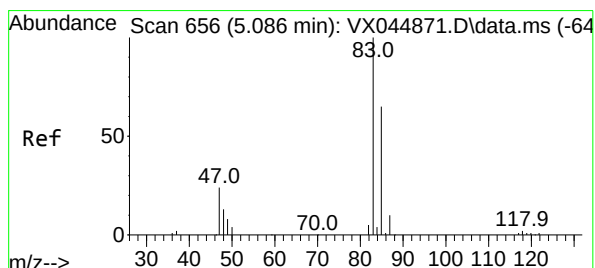
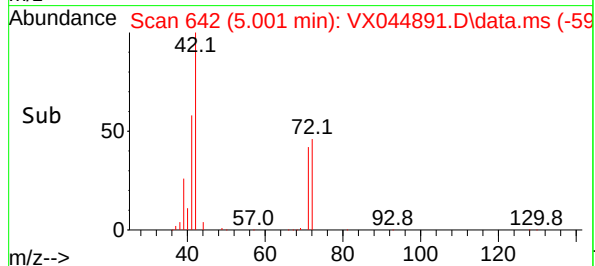
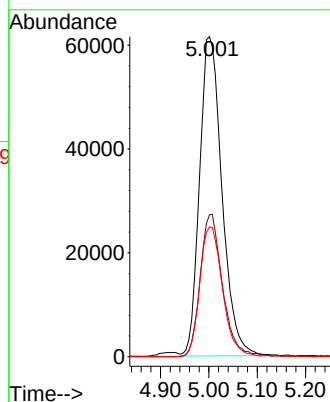
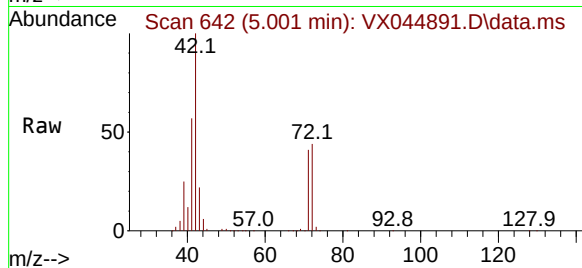
71 41.1 32.6 48.8

Manual Integrations

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Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#30

Chloroform

Concen: 50.578 ug/l

RT: 5.086 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX044891.D

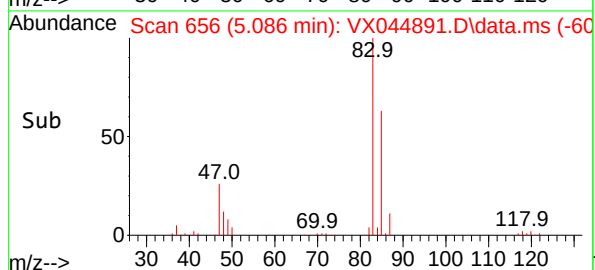
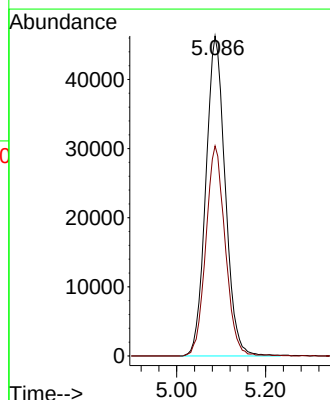
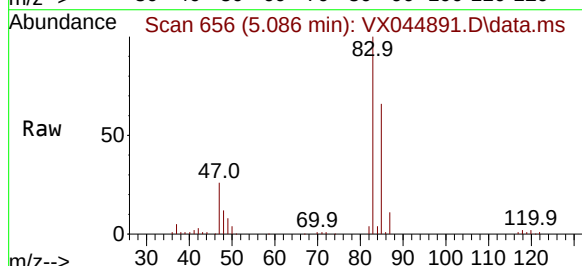
Acq: 10 Feb 2025 19:32

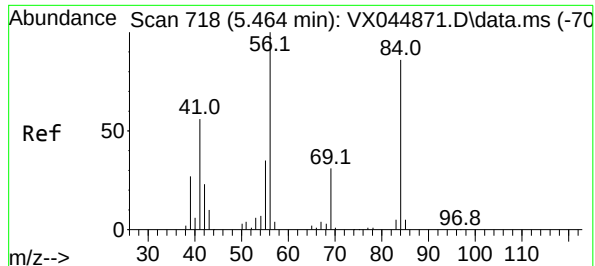
Tgt Ion: 83 Resp: 140239

Ion Ratio Lower Upper

83 100

85 65.6 52.1 78.1





#31

Cyclohexane

Concen: 46.807 ug/l

RT: 5.464 min Scan# 718

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 56 Resp: 12337

Ion Ratio Lower Upper

56 100

69 29.4 24.4 36.6

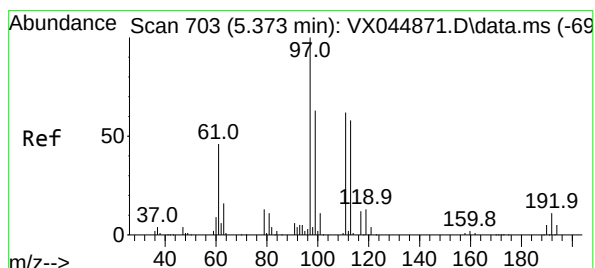
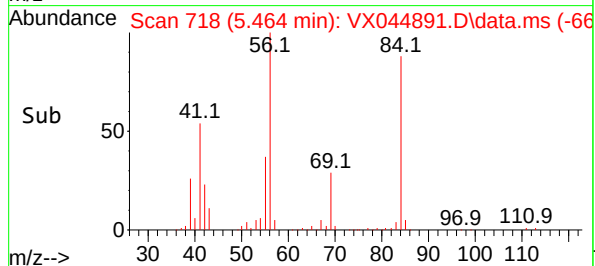
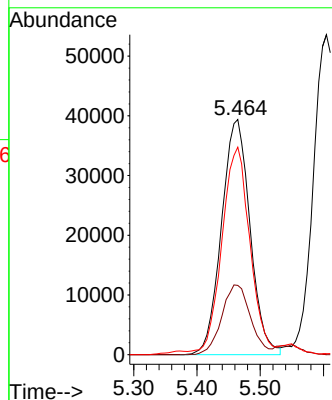
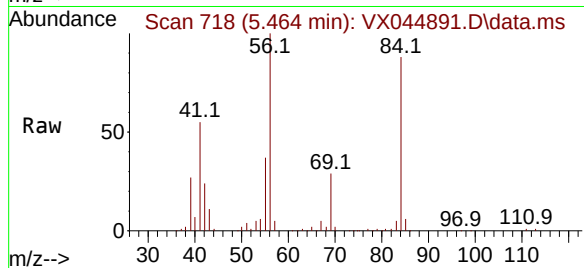
84 86.7 69.0 103.6

Manual Integrations

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Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#32

1,1,1-Trichloroethane

Concen: 49.716 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.006 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

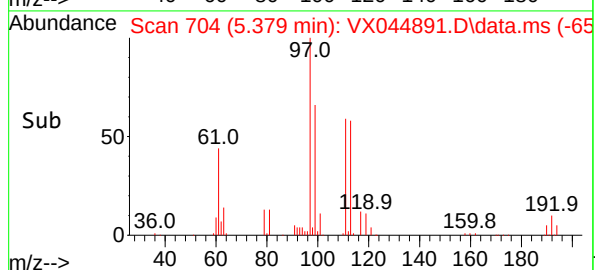
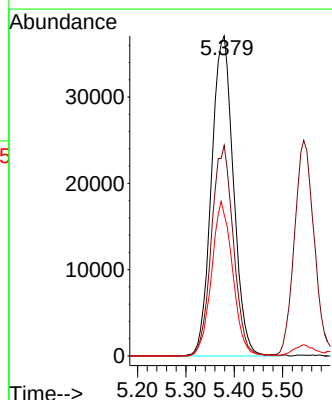
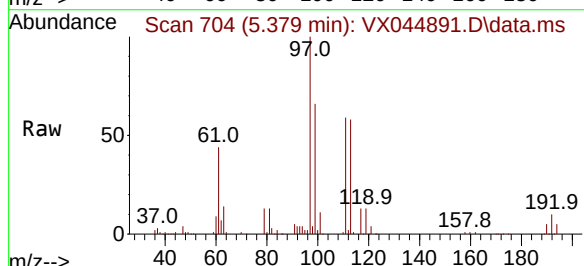
Tgt Ion: 97 Resp: 116926

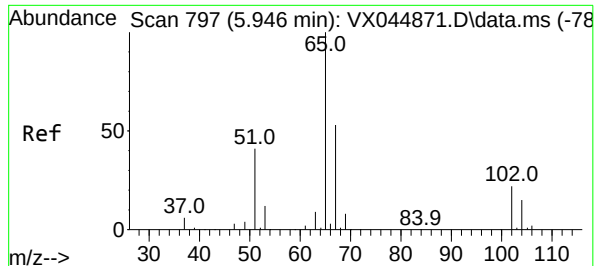
Ion Ratio Lower Upper

97 100

99 65.3 51.0 76.6

61 46.4 36.6 55.0





#33

1,2-Dichloroethane-d4

Concen: 46.358 ug/l

RT: 5.946 min Scan# 797

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 65 Resp: 7868

Ion Ratio Lower Upper

65 100

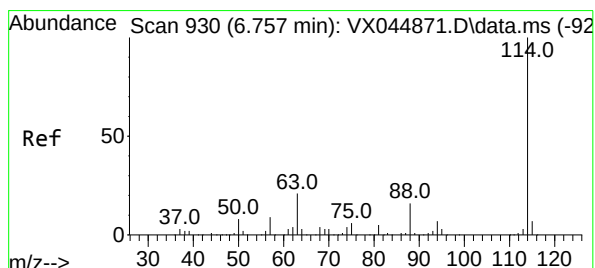
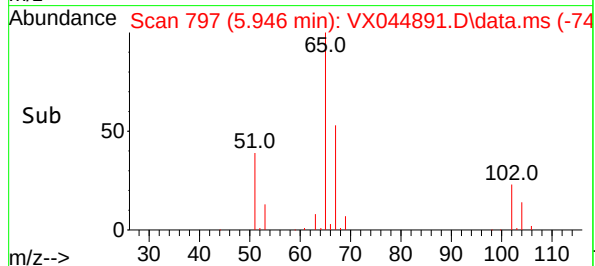
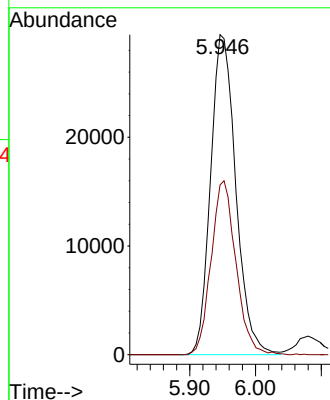
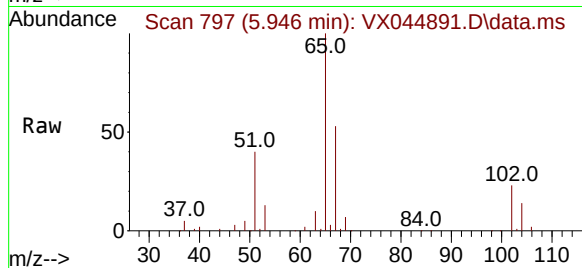
67 53.4 0.0 108.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

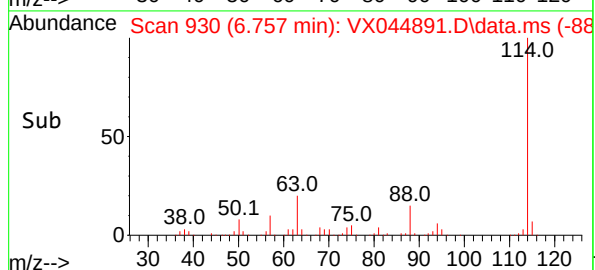
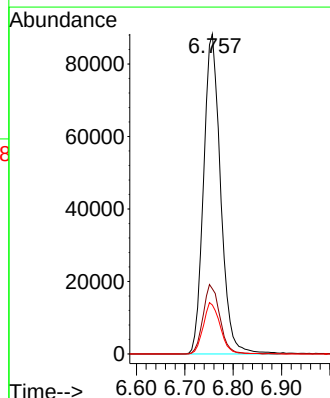
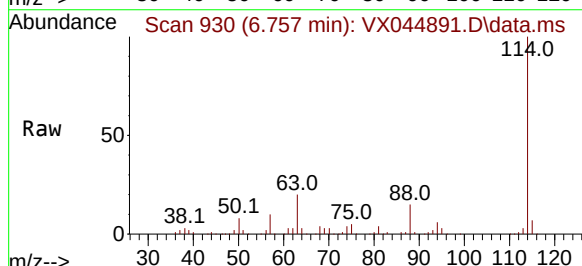
Tgt Ion:114 Resp: 215738

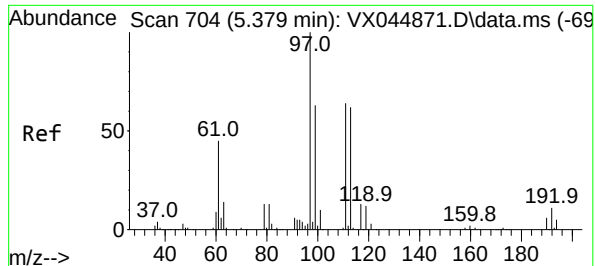
Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.4

88 15.3 0.0 31.4





#35

Dibromofluoromethane

Concen: 45.228 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion:113 Resp: 63440

Ion Ratio Lower Upper

113 100

111 102.8 83.5 125.3

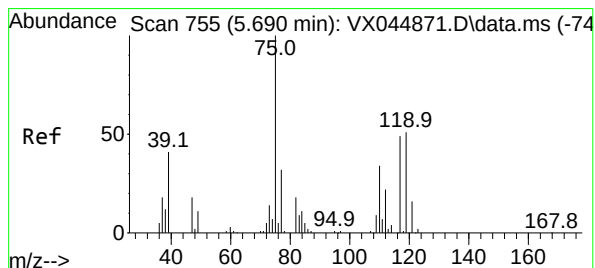
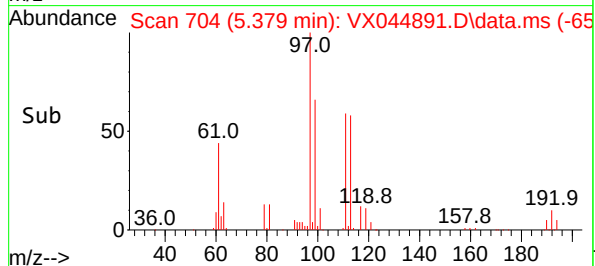
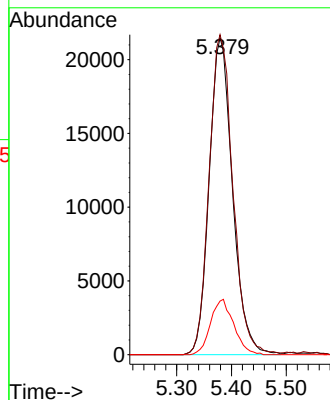
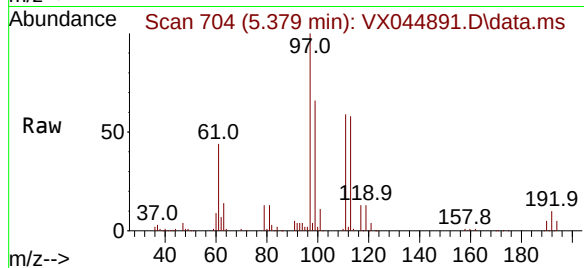
192 17.4 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#36

1,1-Dichloropropene

Concen: 47.355 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

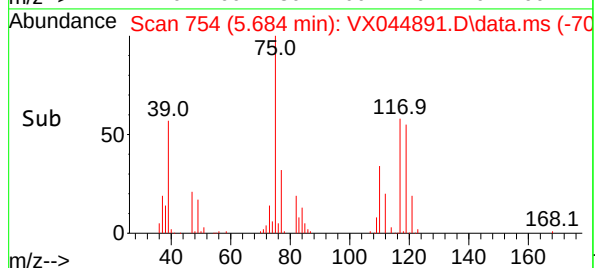
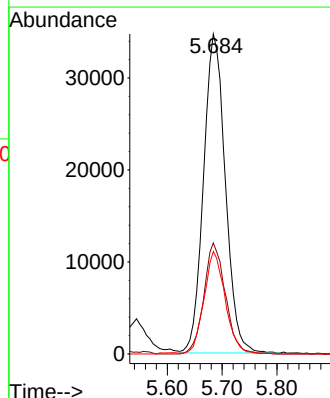
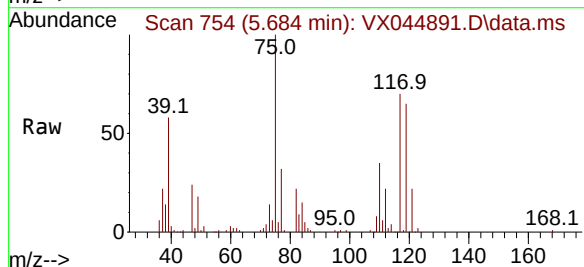
Tgt Ion: 75 Resp: 95829

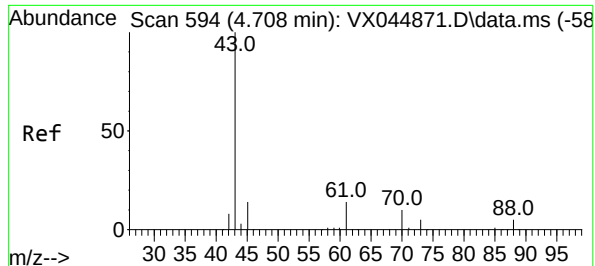
Ion Ratio Lower Upper

75 100

110 34.3 17.2 51.6

77 31.4 24.6 37.0





#37

Ethyl Acetate

Concen: 51.668 ug/l

RT: 4.715 min Scan# 594

Delta R.T. 0.006 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 116299

Ion Ratio Lower Upper

43 100

61 13.7 11.0 16.4

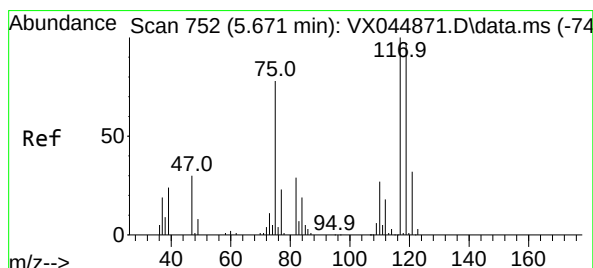
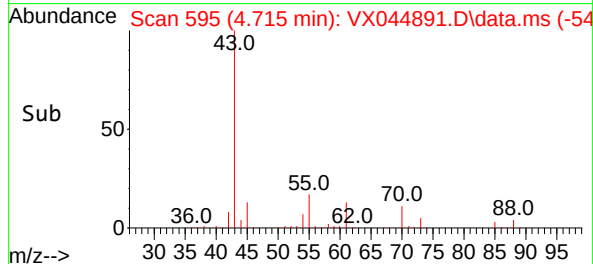
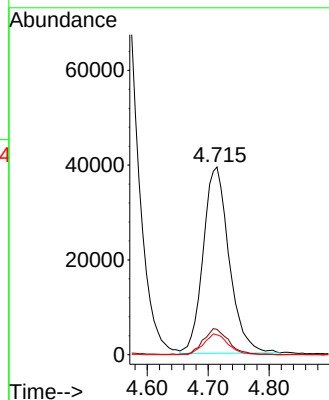
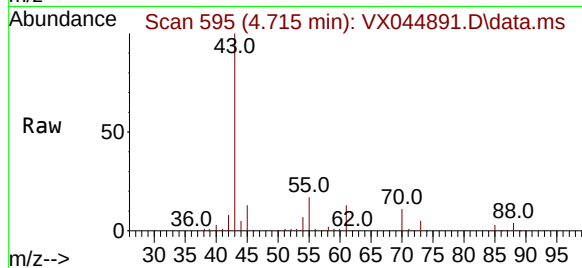
70 10.5 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#38

Carbon Tetrachloride

Concen: 47.672 ug/l

RT: 5.672 min Scan# 752

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

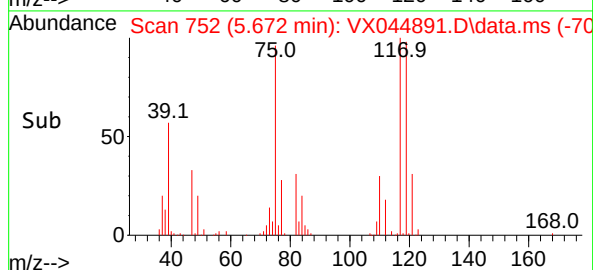
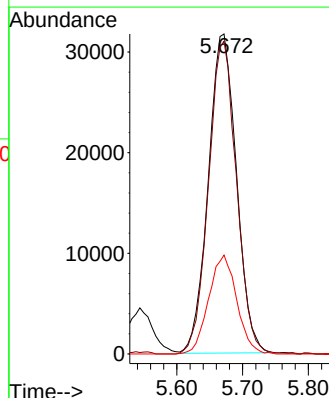
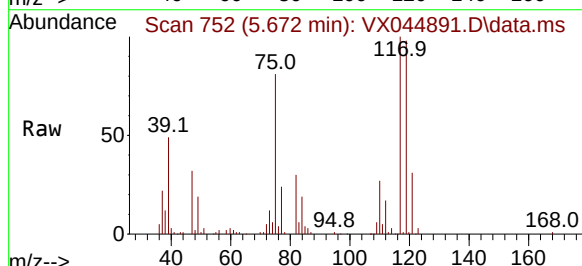
Tgt Ion:117 Resp: 94537

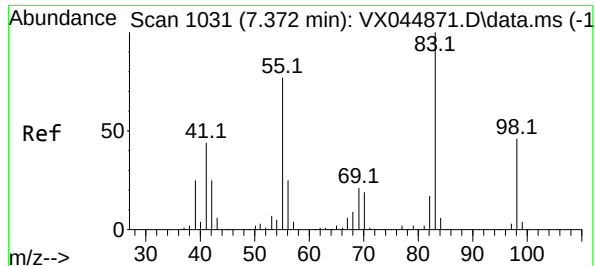
Ion Ratio Lower Upper

117 100

119 97.8 77.5 116.3

121 31.0 25.6 38.4





#39

Methylcyclohexane

Concen: 47.455 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX044891.D

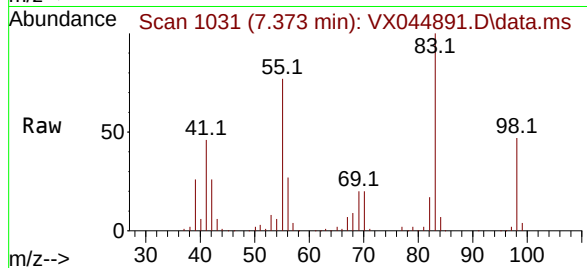
Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC



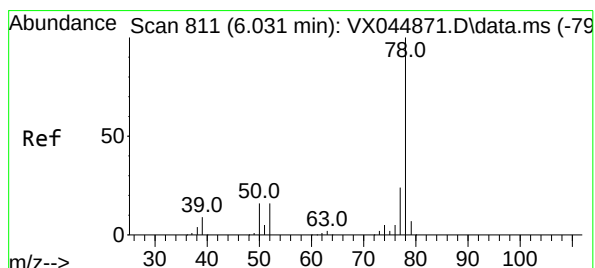
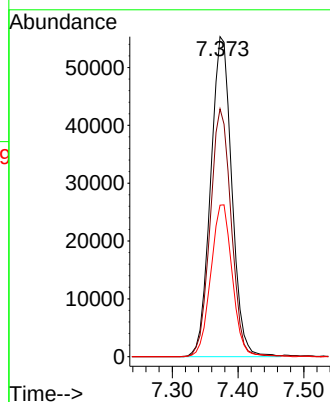
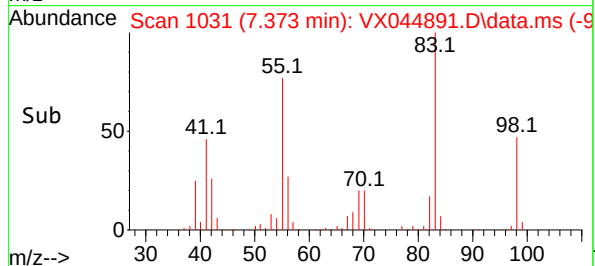
Tgt Ion:	83	Resp:	124154
Ion	Ratio	Lower	Upper
83	100		
55	77.5	61.3	91.9
98	47.4	37.0	55.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#40

Benzene

Concen: 49.777 ug/l

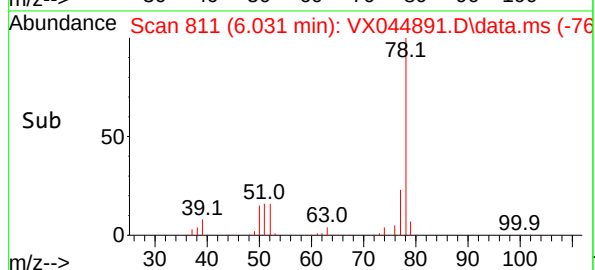
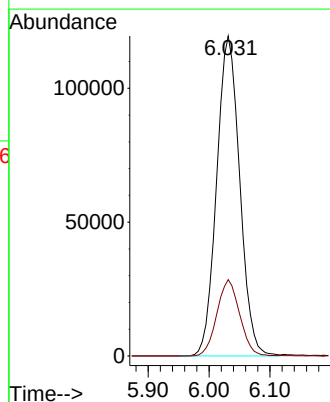
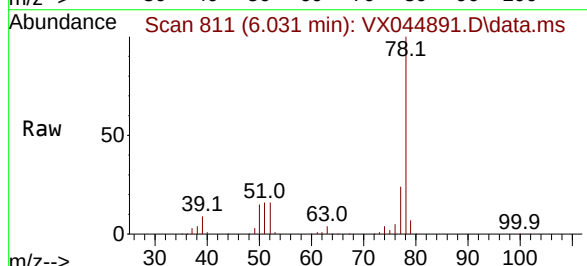
RT: 6.031 min Scan# 811

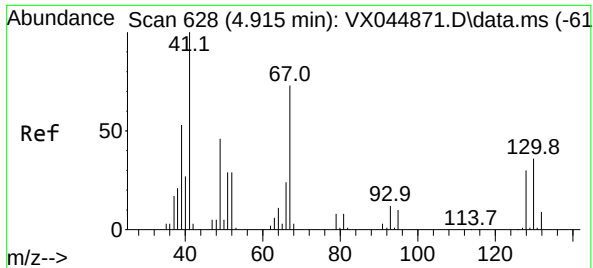
Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

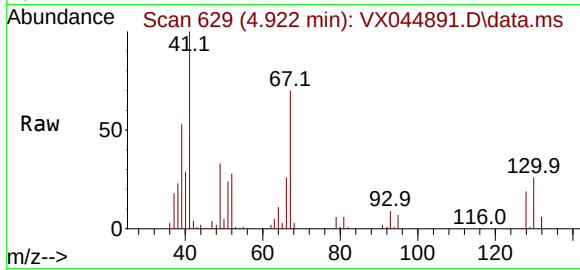
Tgt Ion:	78	Resp:	314544
Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.6





#41
Methacrylonitrile
Concen: 54.178 ug/l
RT: 4.922 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

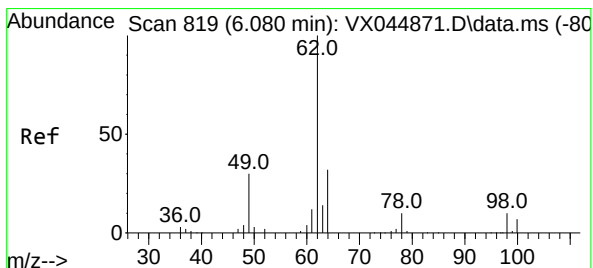
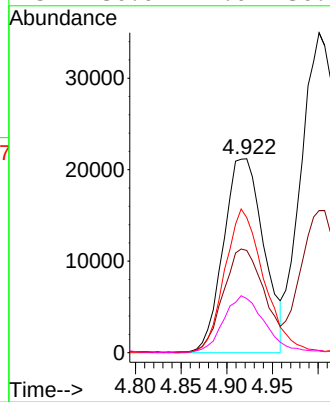
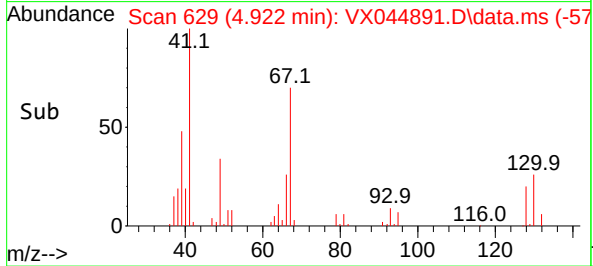
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 41 Resp: 65279
Ion Ratio Lower Upper
41 100
39 54.6 43.1 64.7
67 72.2 57.0 85.6
52 30.6 24.0 36.0

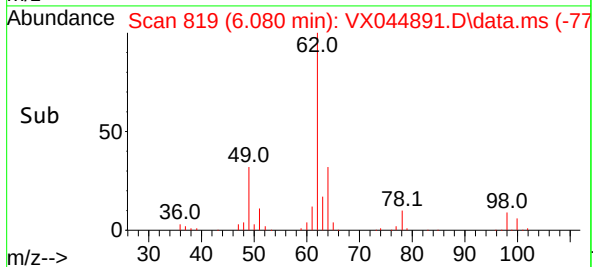
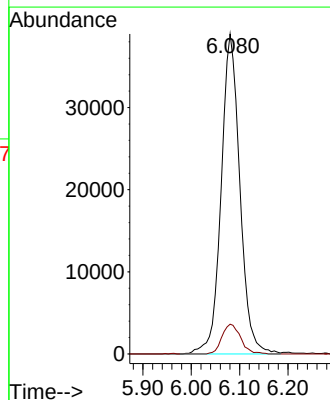
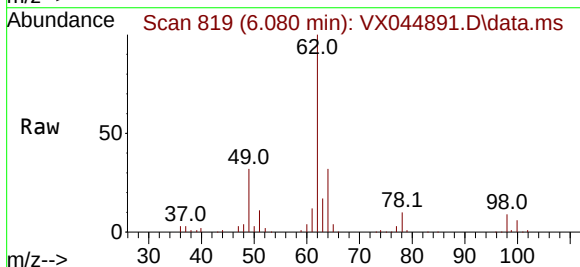
Manual Integrations
APPROVED

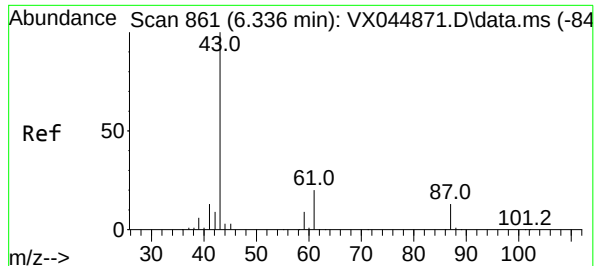
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#42
1,2-Dichloroethane
Concen: 52.115 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

Tgt Ion: 62 Resp: 104957
Ion Ratio Lower Upper
62 100
98 9.3 0.0 19.4





#43

Isopropyl Acetate

Concen: 53.572 ug/l

RT: 6.336 min Scan# 80

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 194720

Ion Ratio Lower Upper

43

100

61

87

20.1 15.8 23.8

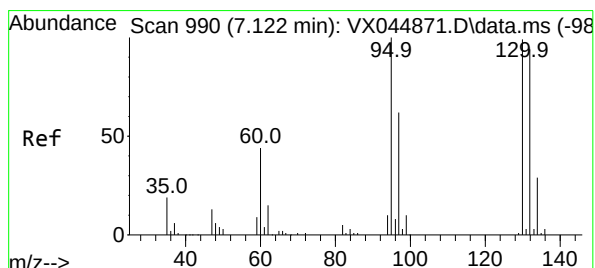
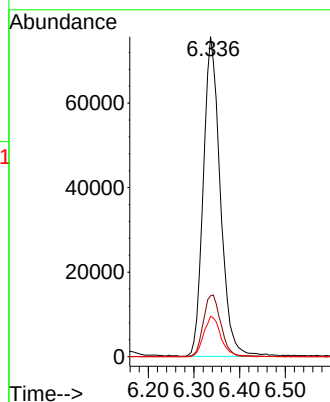
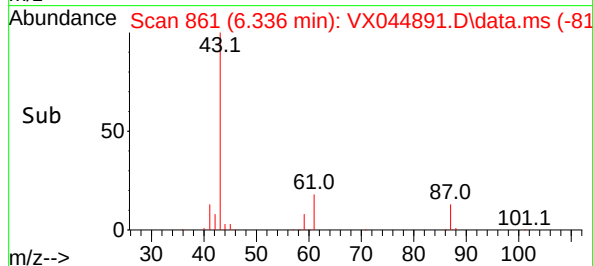
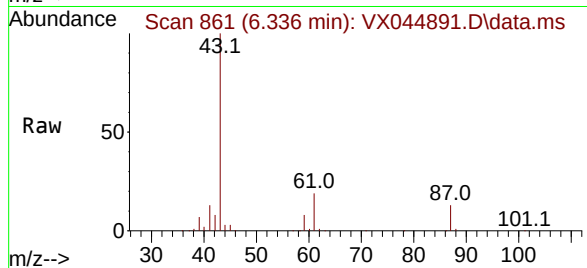
12.6 10.0 15.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#44

Trichloroethene

Concen: 49.266 ug/l

RT: 7.123 min Scan# 990

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Tgt Ion:130 Resp: 71158

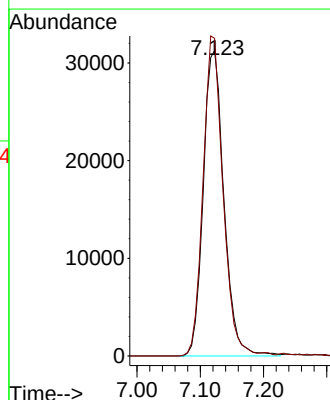
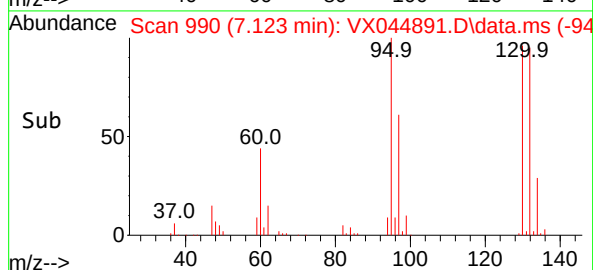
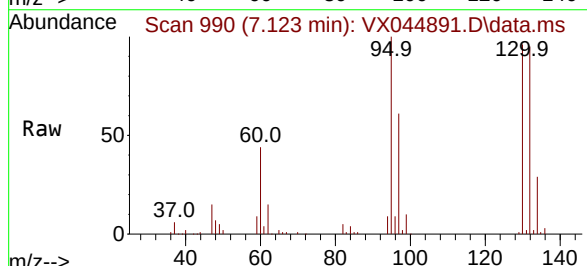
Ion Ratio Lower Upper

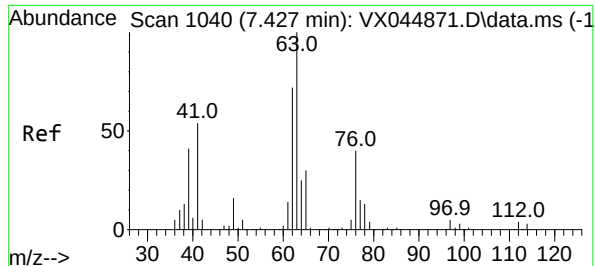
130

100

95

104.0 0.0 202.4





#45

1,2-Dichloropropane

Concen: 51.151 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 63 Resp: 80414

Ion Ratio Lower Upper

63 100

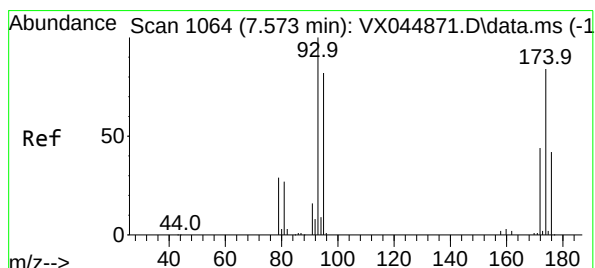
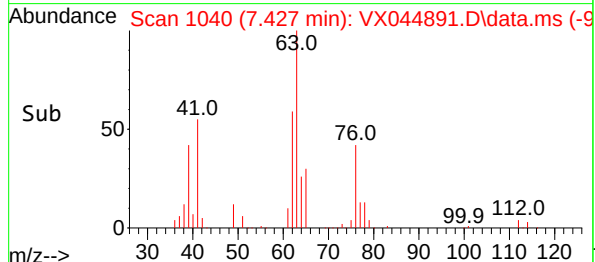
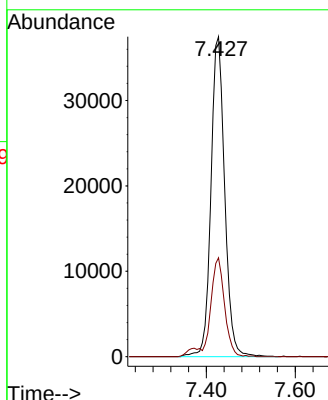
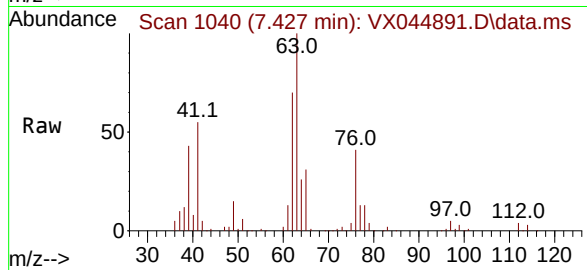
65 30.9 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#46

Dibromomethane

Concen: 51.296 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

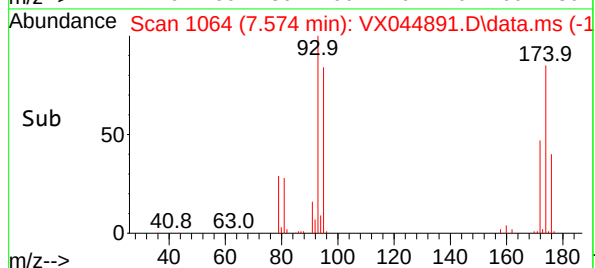
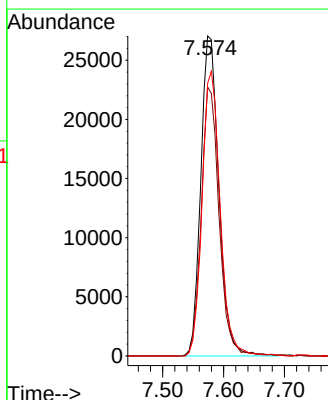
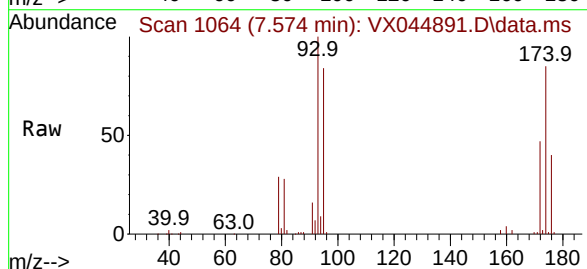
Tgt Ion: 93 Resp: 55925

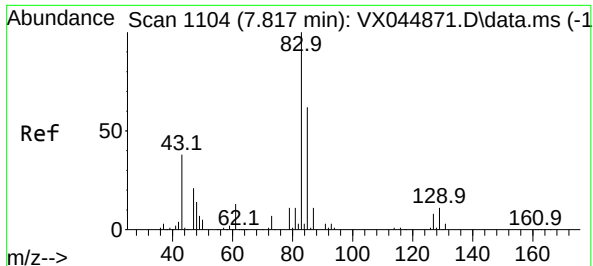
Ion Ratio Lower Upper

93 100

95 82.9 66.2 99.4

174 88.7 69.9 104.9





#47

Bromodichloromethane

Concen: 52.204 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 83 Resp: 11020

Ion Ratio Lower Upper

83 100

85 61.8 50.0 75.0

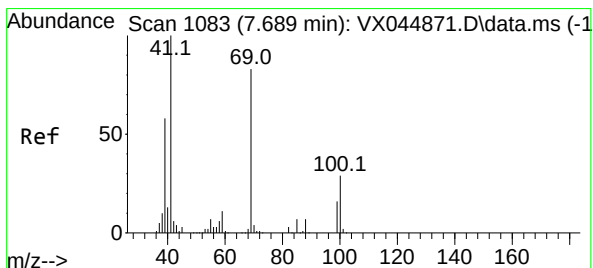
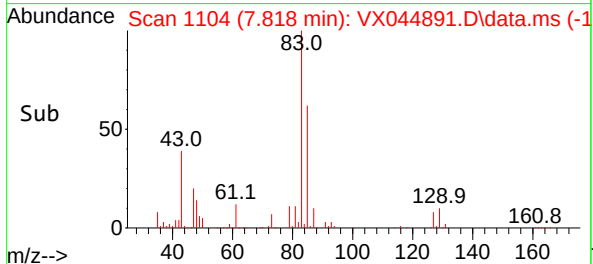
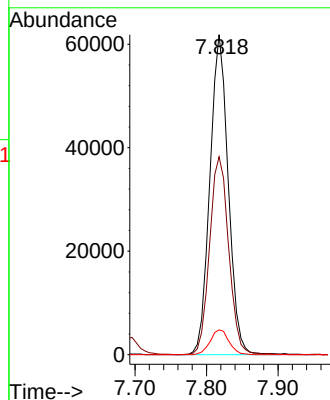
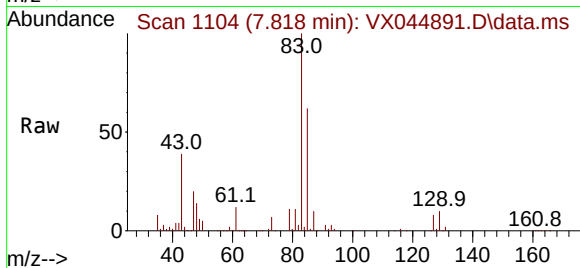
127 7.8 6.4 9.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#48

Methyl methacrylate

Concen: 54.789 ug/l

RT: 7.690 min Scan# 1083

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

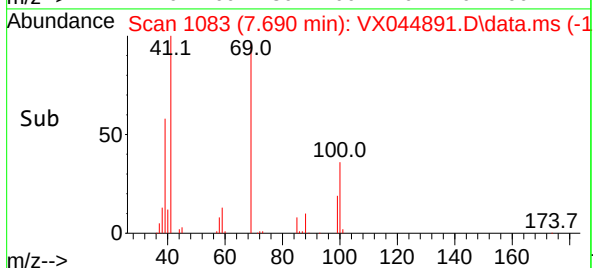
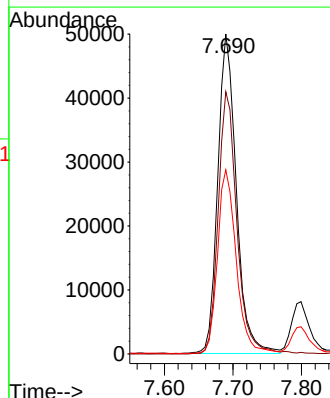
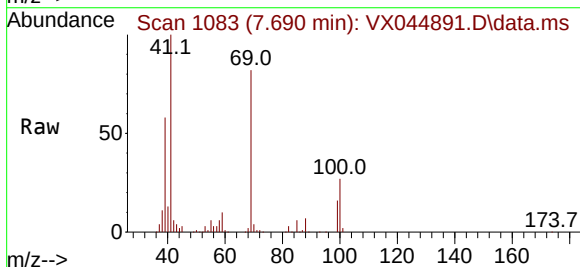
Tgt Ion: 41 Resp: 93901

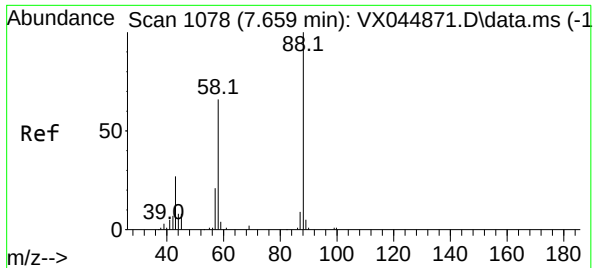
Ion Ratio Lower Upper

41 100

69 82.6 65.8 98.8

39 58.1 46.4 69.6





#49

1,4-Dioxane

Concen: 1082.326 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 88 Resp: 39798

Ion Ratio Lower Upper

88 100

43 32.9 26.6 39.8

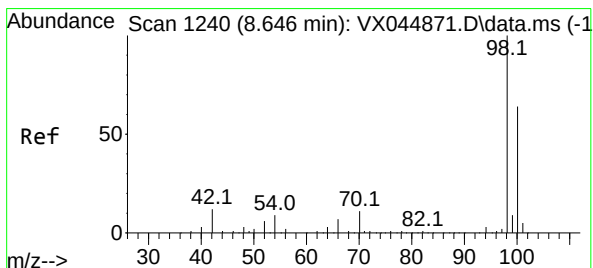
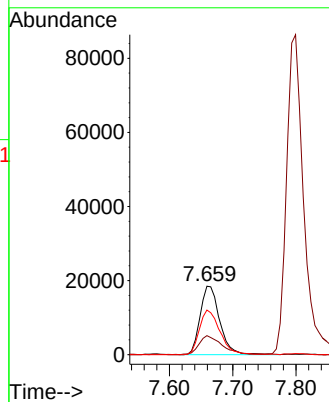
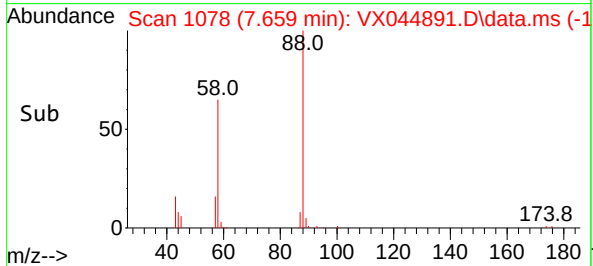
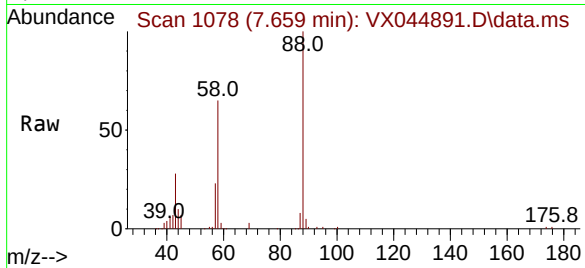
58 68.1 55.9 83.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#50

Toluene-d8

Concen: 44.684 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044891.D

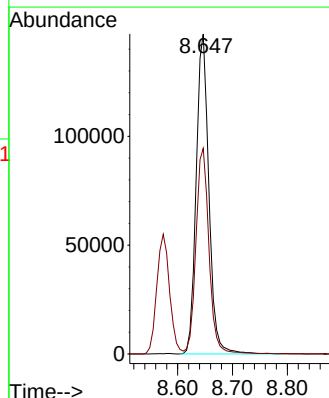
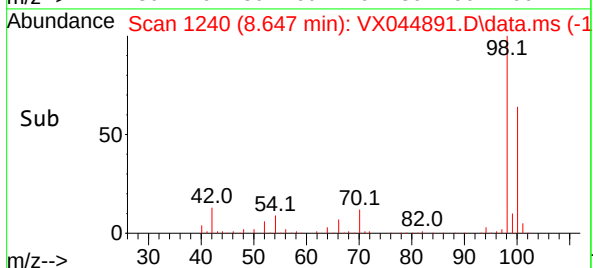
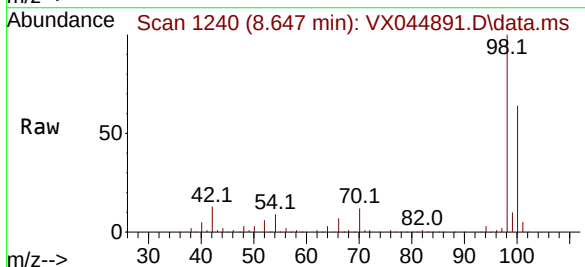
Acq: 10 Feb 2025 19:32

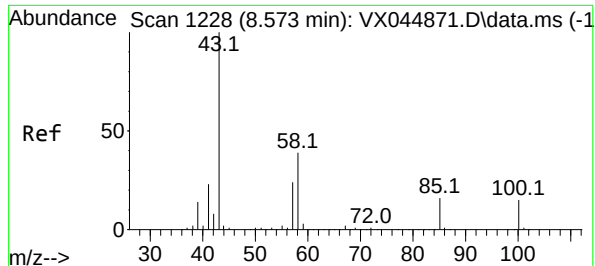
Tgt Ion: 98 Resp: 237006

Ion Ratio Lower Upper

98 100

100 66.1 52.7 79.1





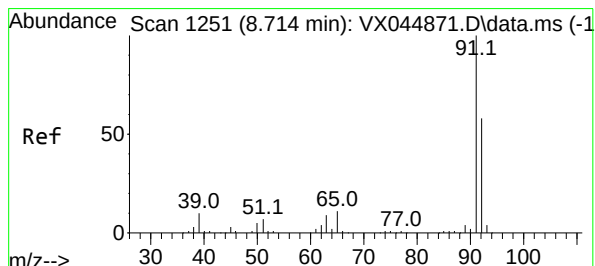
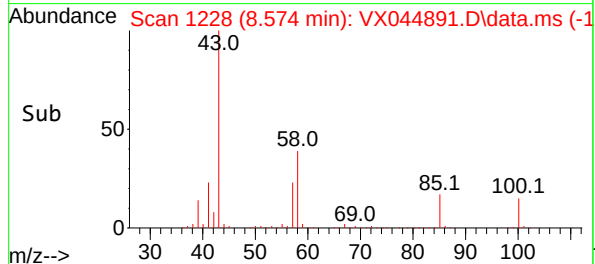
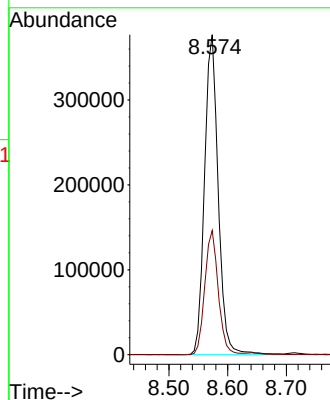
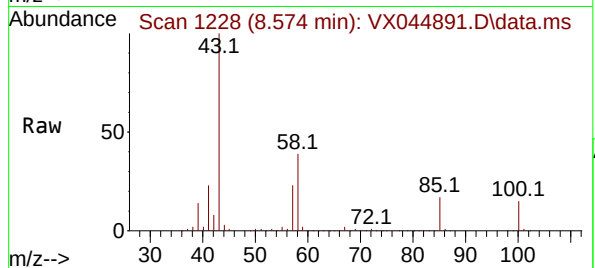
#51
4-Methyl-2-Pentanone
Concen: 276.156 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 61024
Ion Ratio Lower Upper
43 100
58 38.3 30.8 46.2

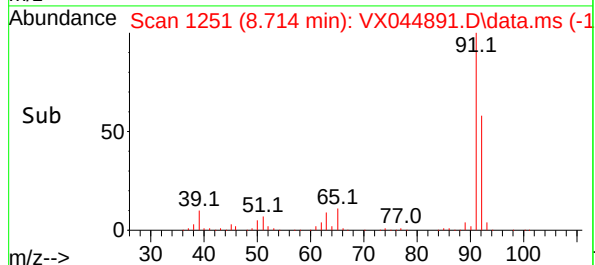
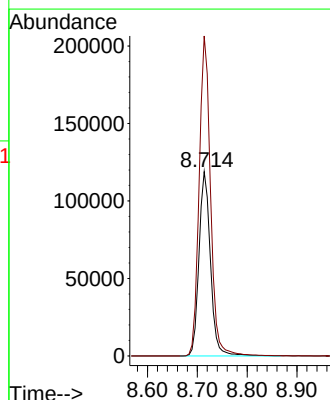
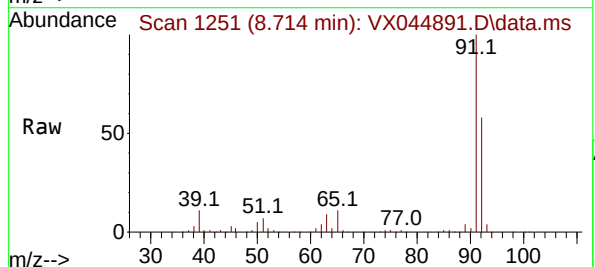
Manual Integrations
APPROVED

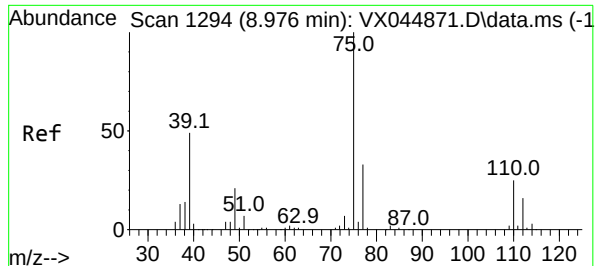
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#52
Toluene
Concen: 50.393 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

Tgt Ion: 92 Resp: 189645
Ion Ratio Lower Upper
92 100
91 172.9 137.4 206.2





#53

t-1,3-Dichloropropene

Concen: 51.740 ug/l

RT: 8.976 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 75 Resp: 110530

Ion Ratio Lower Upper

75 100

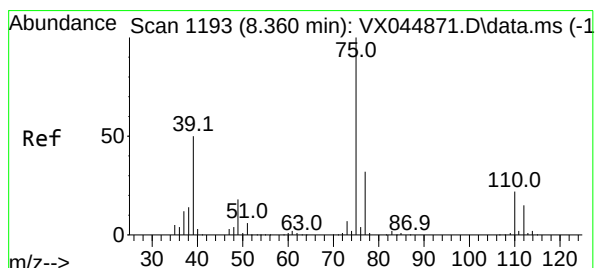
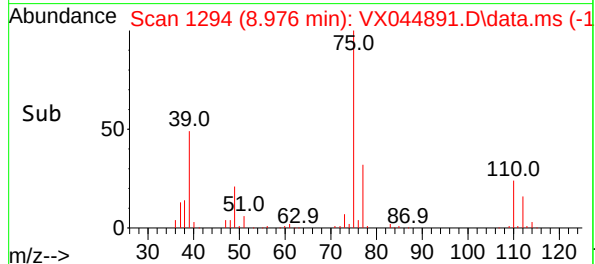
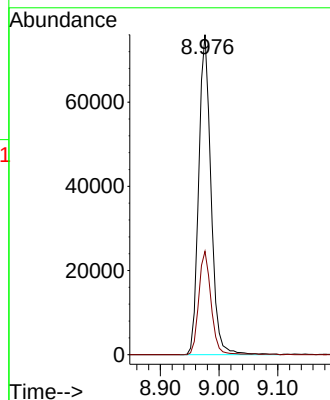
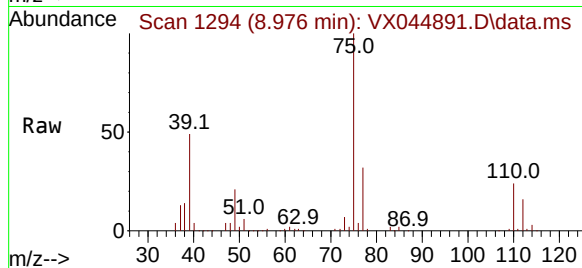
77 32.3 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#54

cis-1,3-Dichloropropene

Concen: 52.280 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

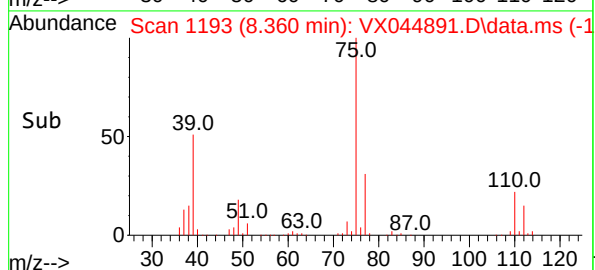
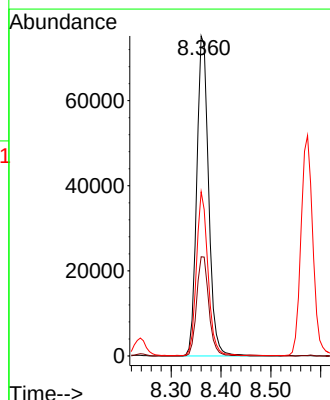
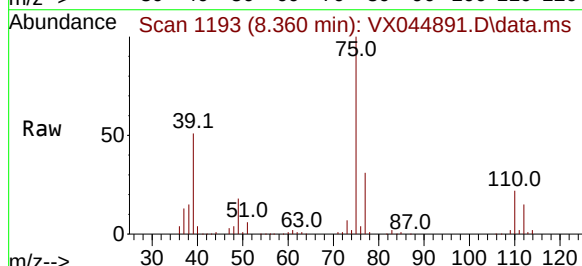
Tgt Ion: 75 Resp: 124522

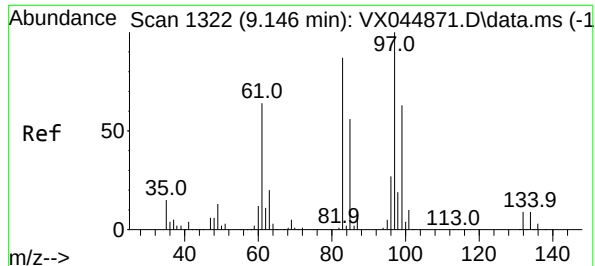
Ion Ratio Lower Upper

75 100

77 31.0 25.3 37.9

39 51.1 40.0 60.0





#55

1,1,2-Trichloroethane

Concen: 52.250 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 97 Resp: 75589

Ion Ratio Lower Upper

97 100

83 88.9 69.8 104.6

85 56.8 44.8 67.2

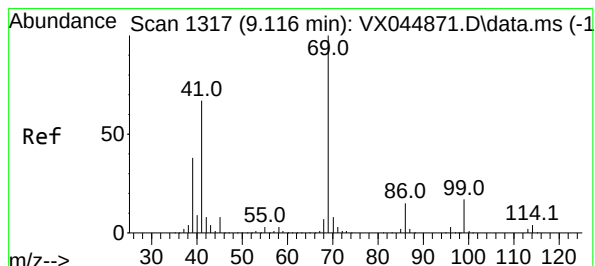
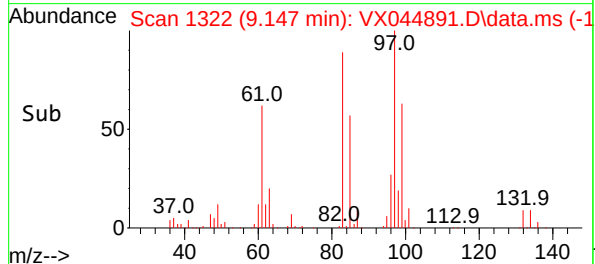
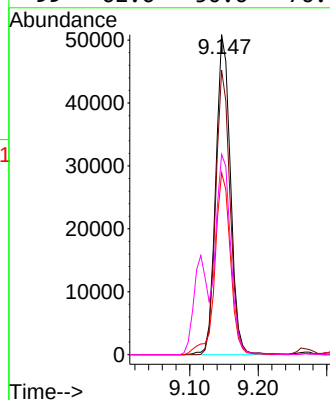
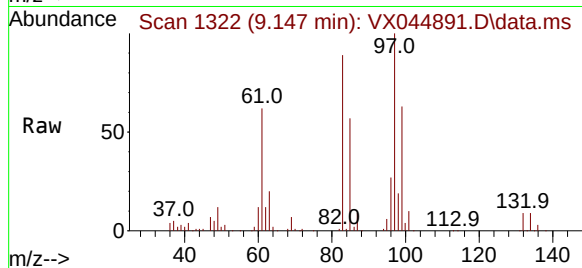
99 62.6 50.6 76.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#56

Ethyl methacrylate

Concen: 54.857 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

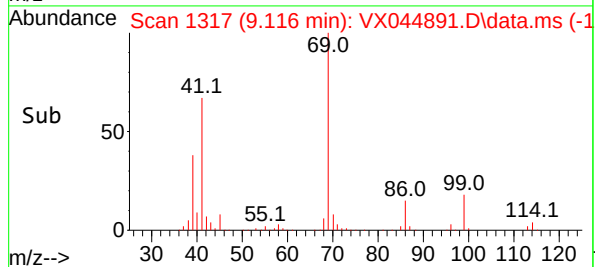
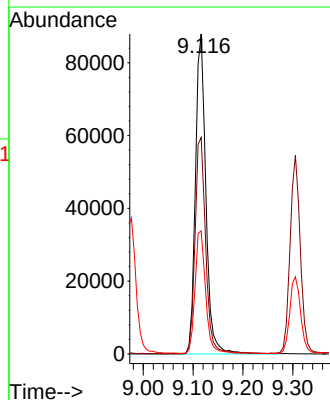
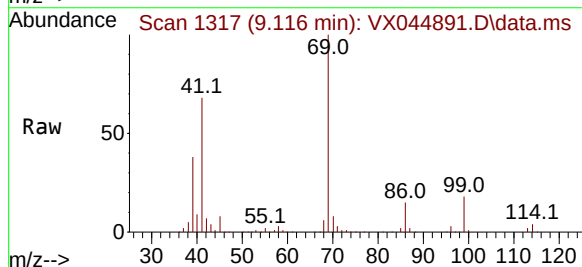
Tgt Ion: 69 Resp: 128175

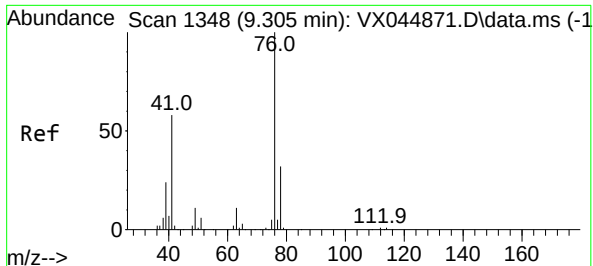
Ion Ratio Lower Upper

69 100

41 68.6 55.2 82.8

39 38.7 30.8 46.2





#57

1,3-Dichloropropane

Concen: 52.155 ug/l

RT: 9.305 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 76 Resp: 13201

Ion Ratio Lower Upper

76 100

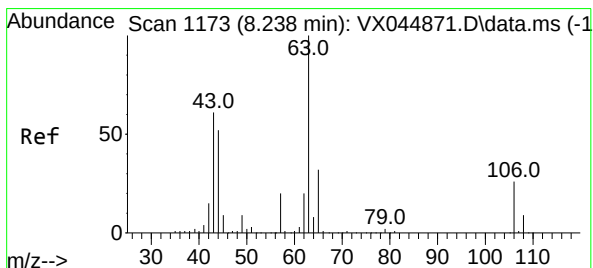
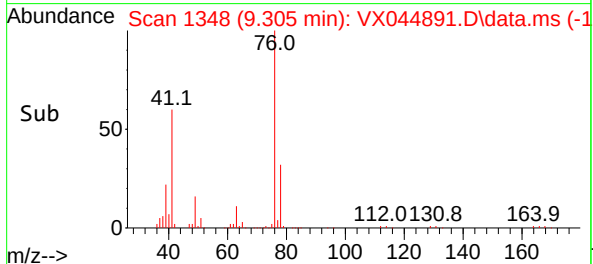
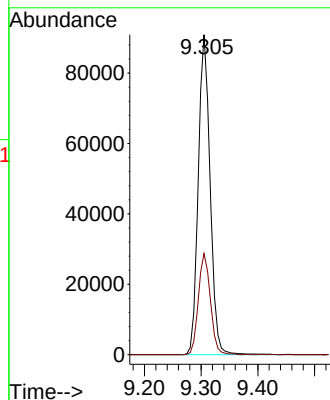
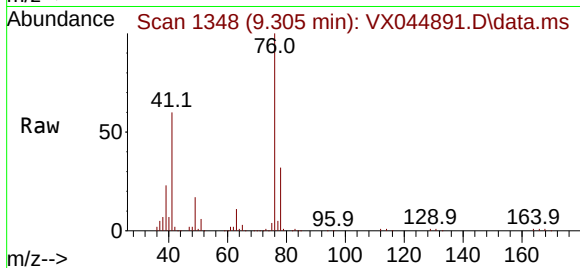
78 32.0 25.8 38.8

Manual Integrations

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Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#58

2-Chloroethyl Vinyl ether

Concen: 284.305 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX044891.D

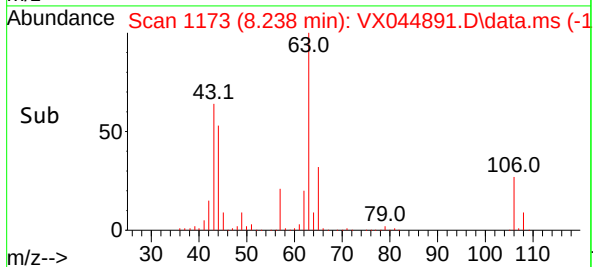
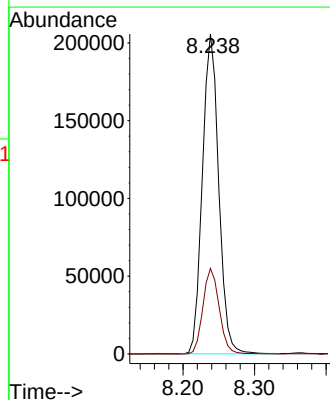
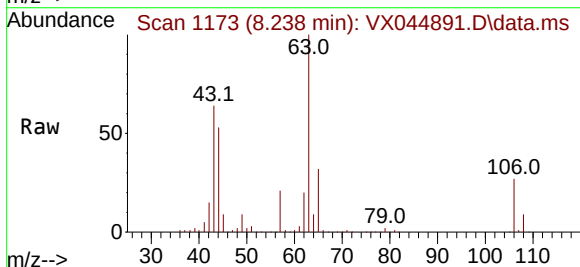
Acq: 10 Feb 2025 19:32

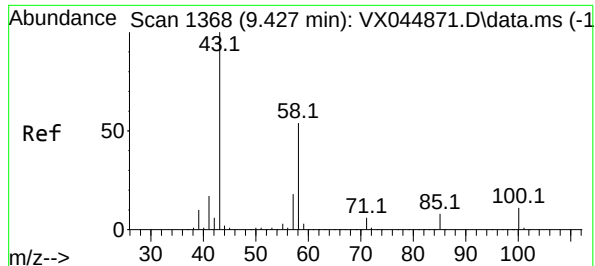
Tgt Ion: 63 Resp: 326171

Ion Ratio Lower Upper

63 100

106 26.6 21.3 31.9





#59

2-Hexanone

Concen: 279.774 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 44544

Ion Ratio Lower Upper

43 100

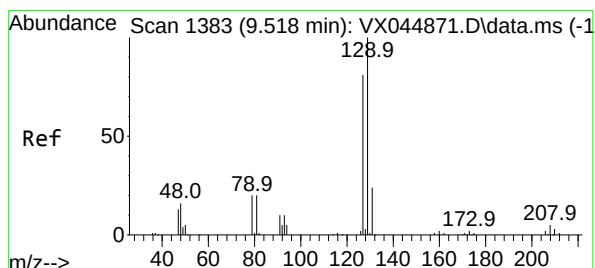
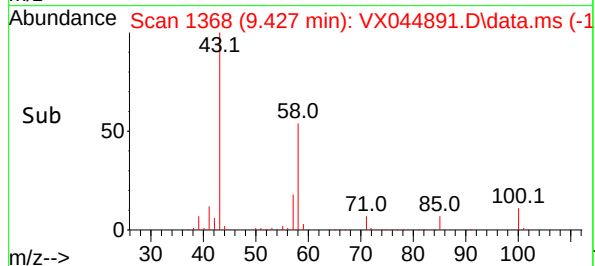
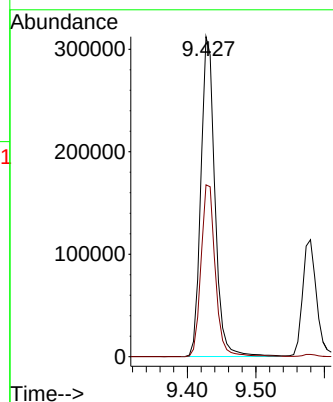
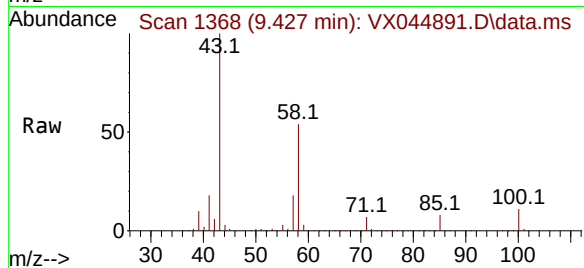
58 54.9 27.5 82.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#60

Dibromochloromethane

Concen: 53.511 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX044891.D

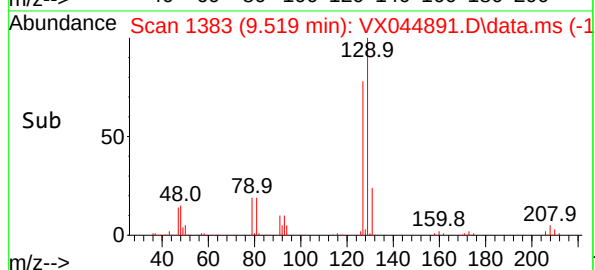
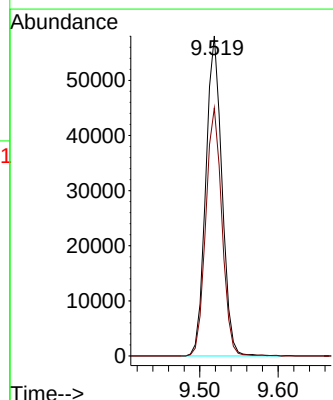
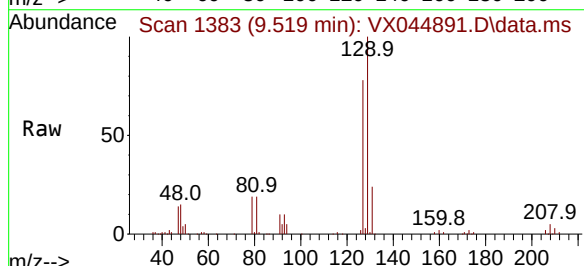
Acq: 10 Feb 2025 19:32

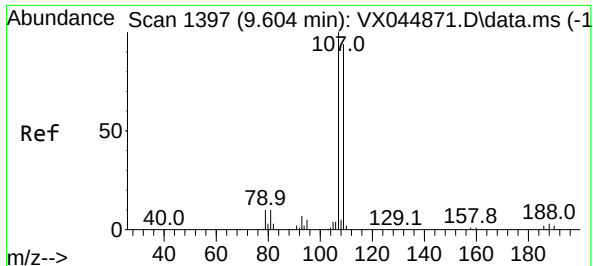
Tgt Ion:129 Resp: 82791

Ion Ratio Lower Upper

129 100

127 77.6 39.1 117.3





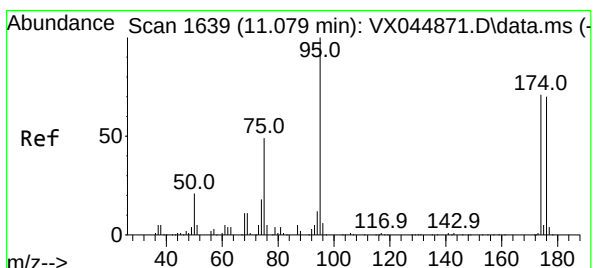
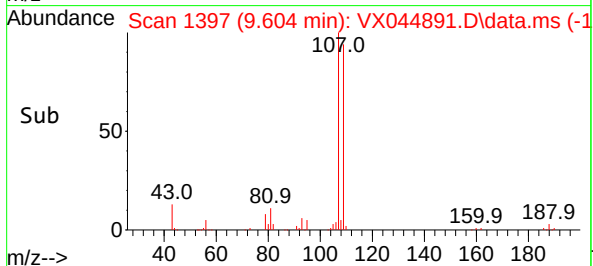
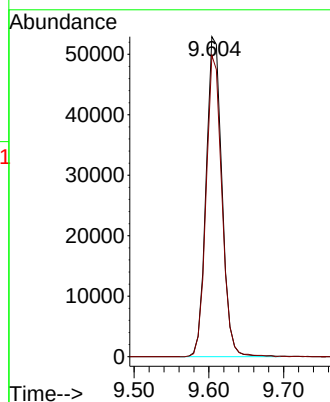
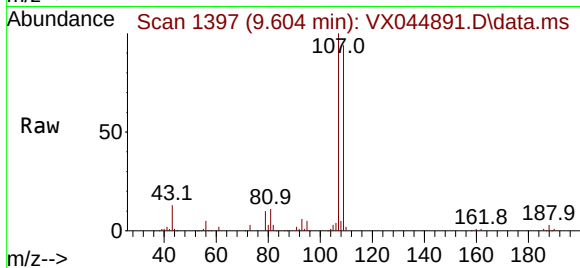
#61
1,2-Dibromoethane
Concen: 53.105 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 77860
Ion Ratio Lower Upper
107 100
109 93.7 75.9 113.9

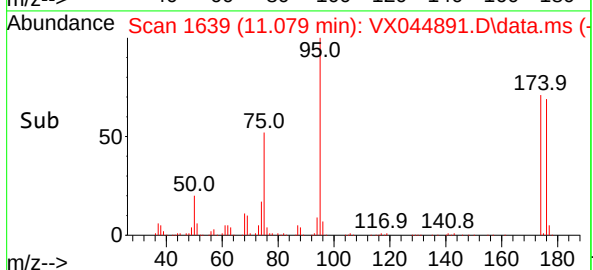
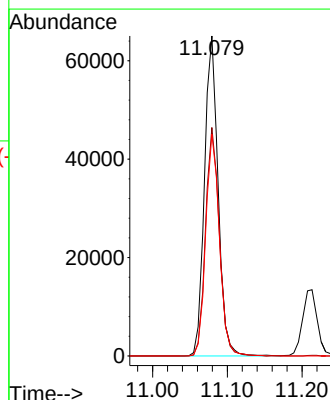
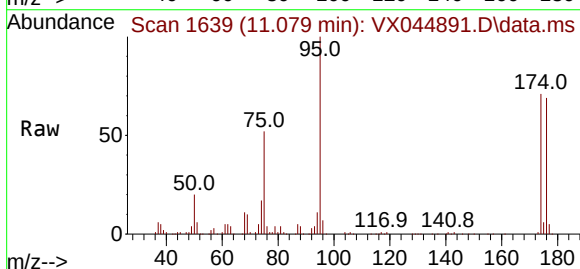
Manual Integrations
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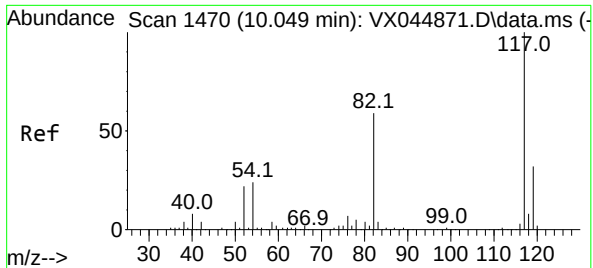
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#62
4-Bromofluorobenzene
Concen: 46.059 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

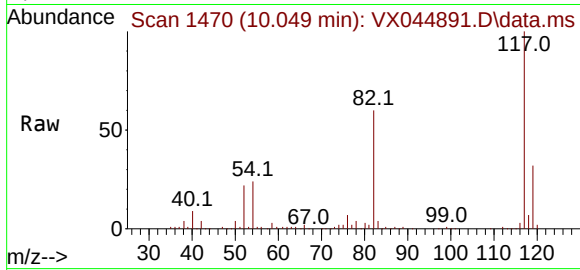
Tgt Ion: 95 Resp: 82358
Ion Ratio Lower Upper
95 100
174 72.0 0.0 142.6
176 69.8 0.0 141.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

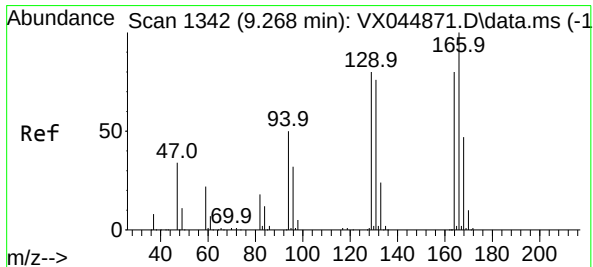
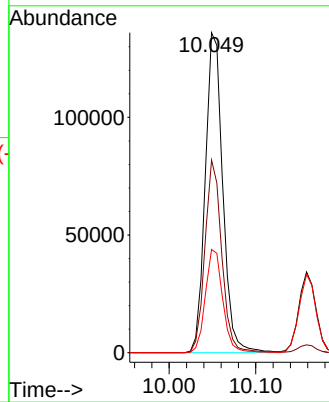
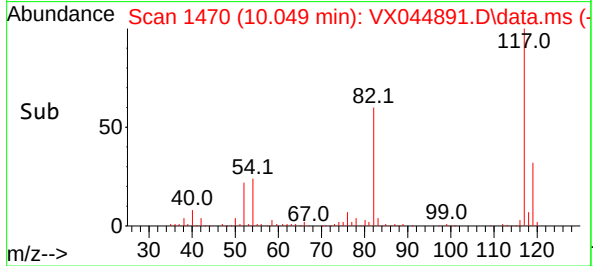
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC



Tgt Ion:117 Resp: 191319
Ion Ratio Lower Upper
117 100
82 60.2 47.5 71.3
119 32.3 25.4 38.0

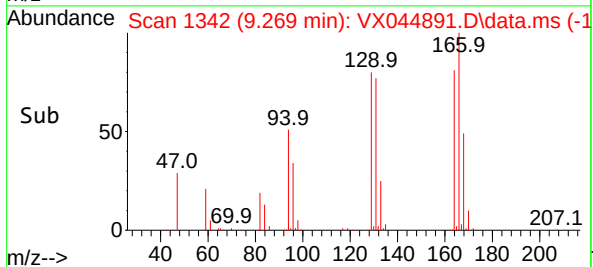
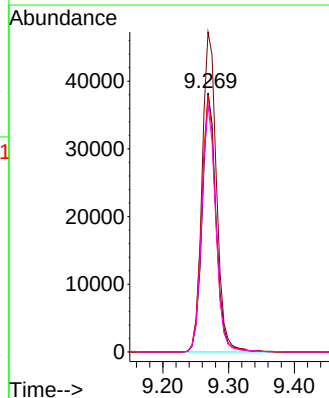
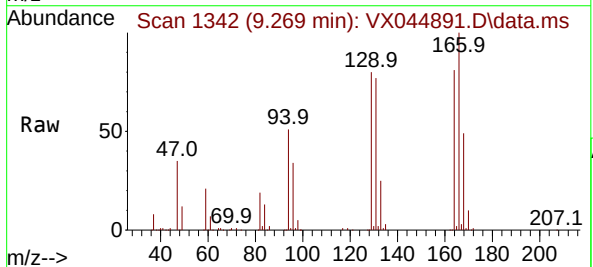
Manual Integrations
APPROVED

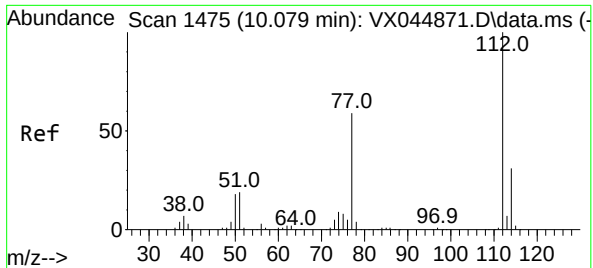
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#64
Tetrachloroethene
Concen: 46.418 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

Tgt Ion:164 Resp: 56005
Ion Ratio Lower Upper
164 100
166 123.6 100.4 150.6
129 99.3 79.9 119.9
131 95.5 75.9 113.9





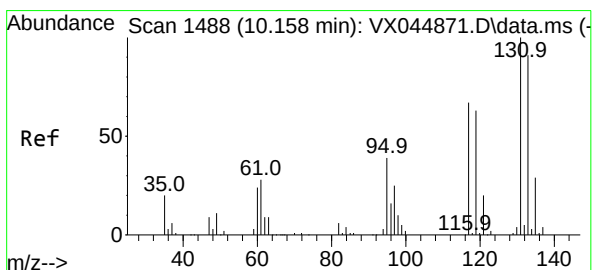
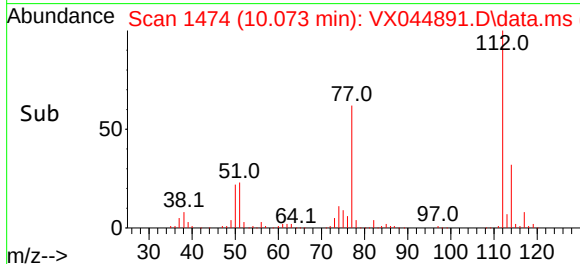
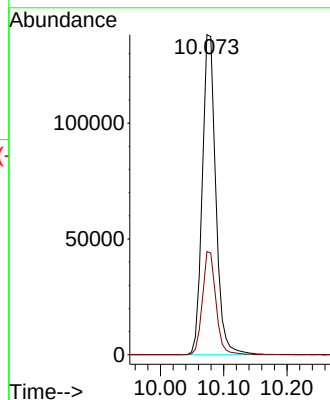
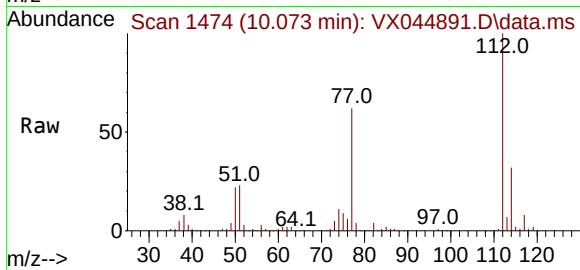
#65
Chlorobenzene
Concen: 50.193 ug/l
RT: 10.073 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 206250
Ion Ratio Lower Upper
112 100
114 32.2 25.0 37.6

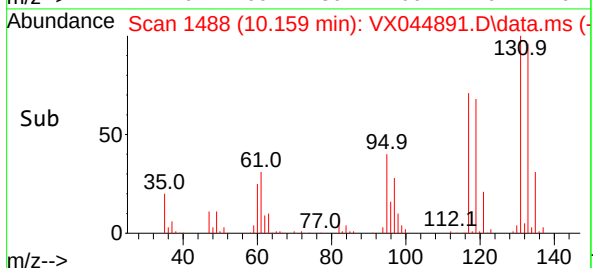
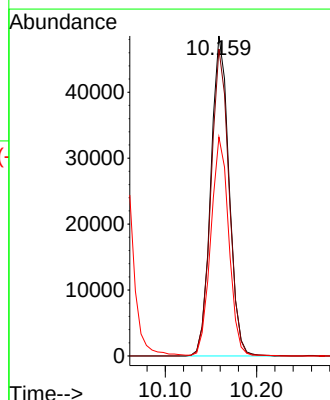
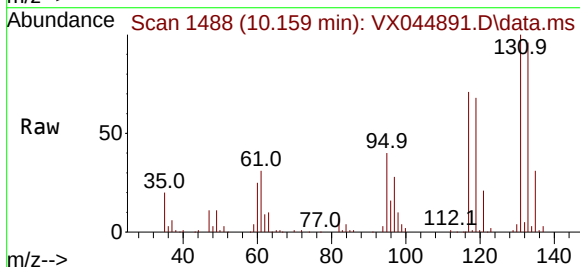
Manual Integrations
APPROVED

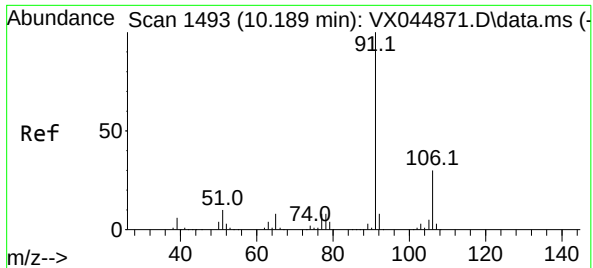
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 50.438 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

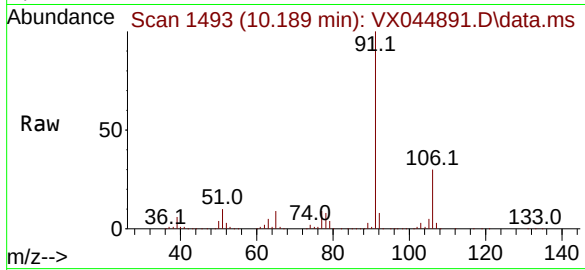
Tgt Ion:131 Resp: 66711
Ion Ratio Lower Upper
131 100
133 95.4 47.1 141.3
119 67.9 33.6 100.6





#67
Ethyl Benzene
Concen: 50.082 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

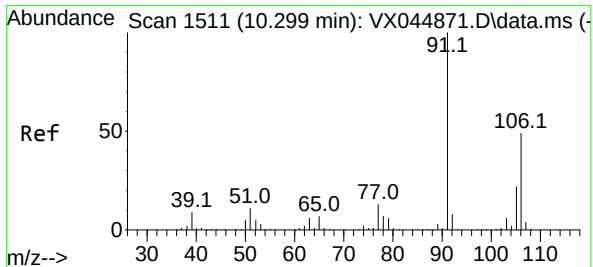
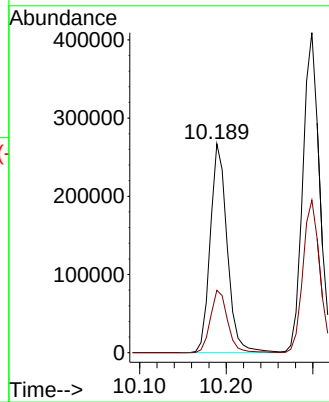
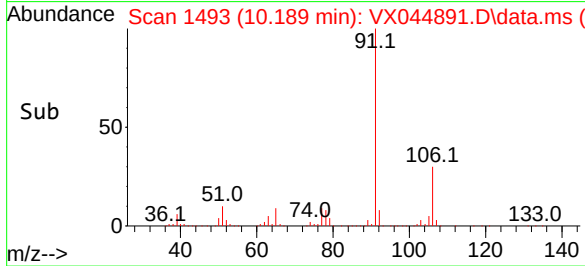
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC



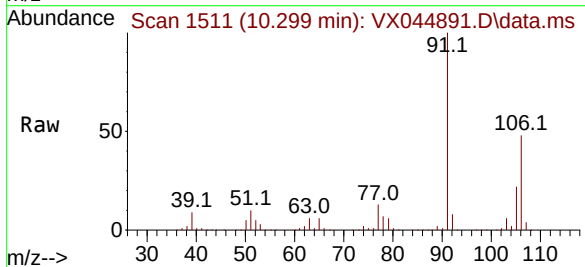
Tgt Ion: 91 Resp: 36317
Ion Ratio Lower Upper
91 100
106 29.9 23.9 35.9

Manual Integrations
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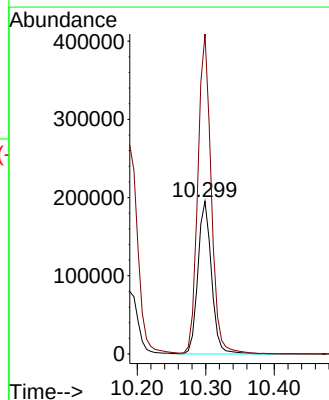
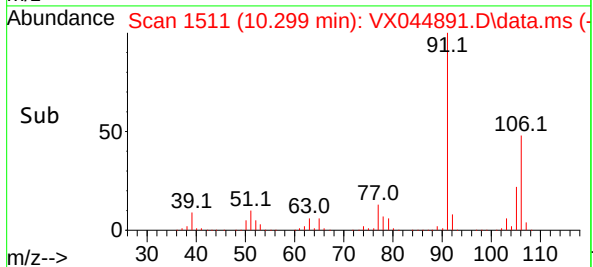
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

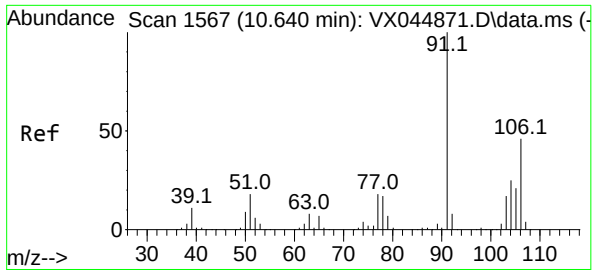


#68
m/p-Xylenes
Concen: 100.639 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32



Tgt Ion:106 Resp: 269208
Ion Ratio Lower Upper
106 100
91 206.8 164.3 246.5





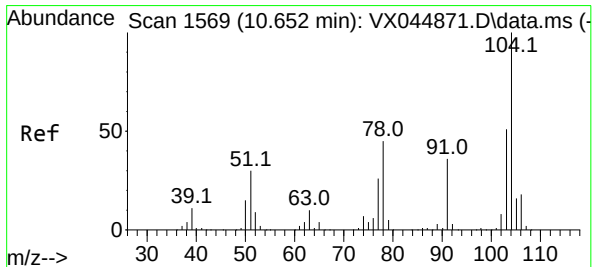
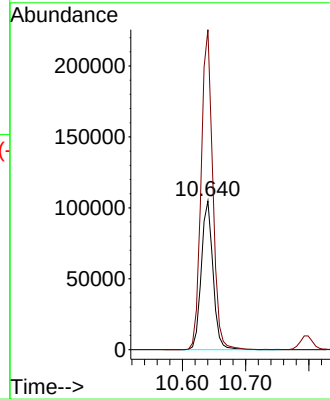
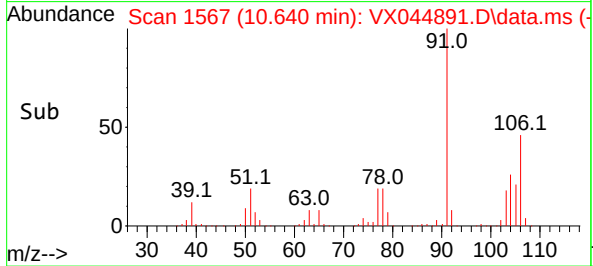
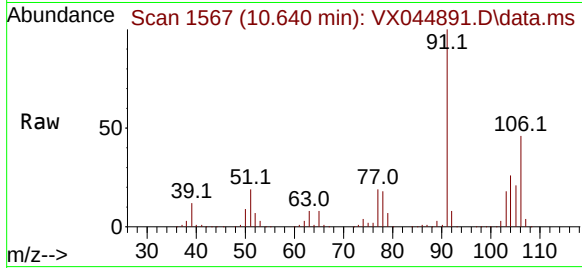
#69
o-Xylene
Concen: 50.390 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 135252
Ion Ratio Lower Upper
106 100
91 214.1 108.5 325.5

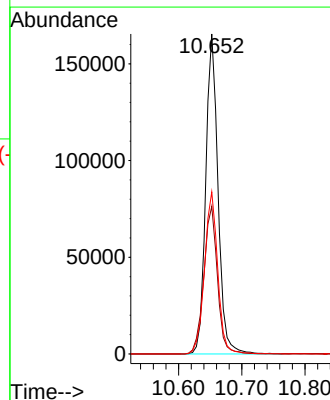
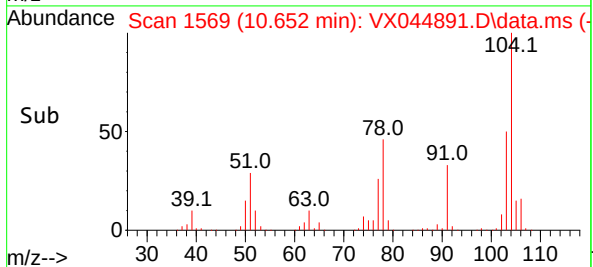
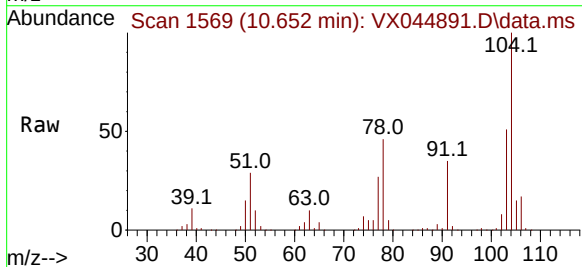
Manual Integrations
APPROVED

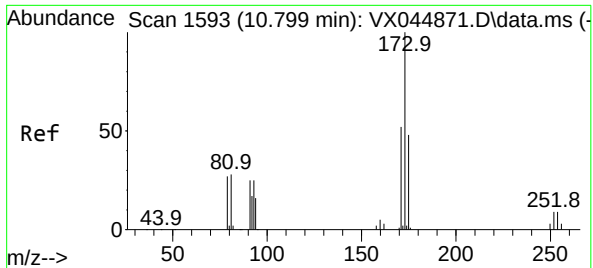
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#70
Styrene
Concen: 51.714 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

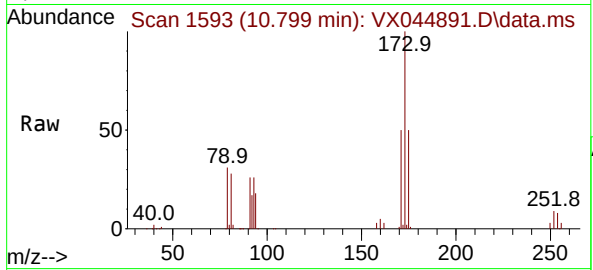
Tgt Ion:104 Resp: 223631
Ion Ratio Lower Upper
104 100
78 51.3 40.5 60.7
103 54.7 43.6 65.4





#71
Bromoform
Concen: 52.331 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

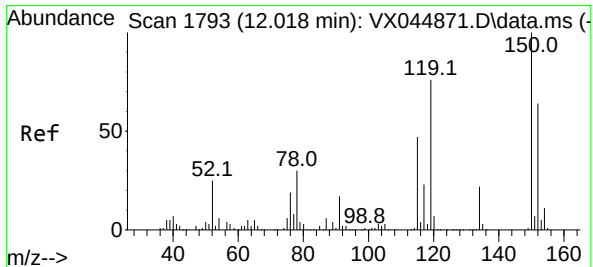
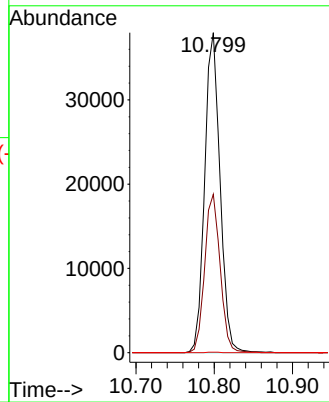
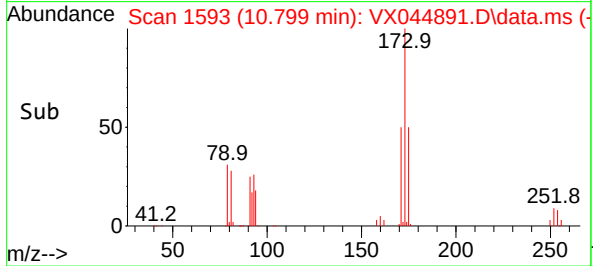
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC



Tgt Ion:173 Resp: 5165
Ion Ratio Lower Upper
173 100
175 49.8 24.3 72.8
254 0.1 0.0 0.0

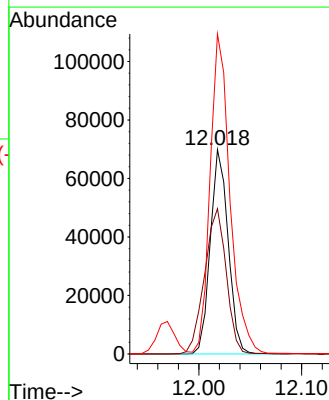
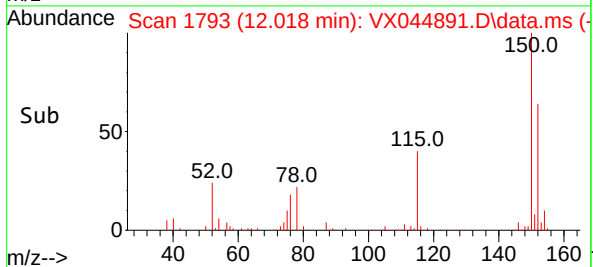
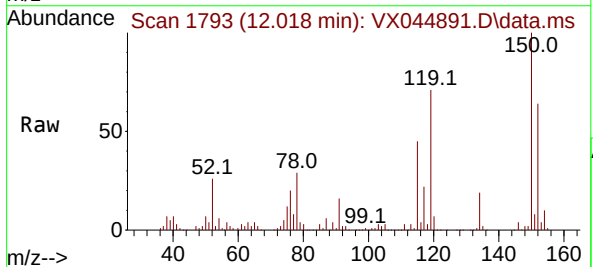
Manual Integrations
APPROVED

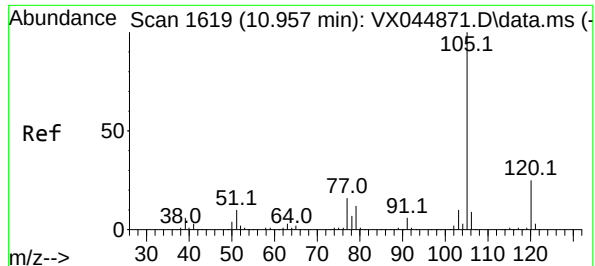
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

Tgt Ion:152 Resp: 84289
Ion Ratio Lower Upper
152 100
115 86.7 43.4 130.1
150 173.8 0.0 350.4





#73

Isopropylbenzene

Concen: 49.928 ug/l

RT: 10.957 min Scan# 1619

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion:105 Resp: 33885

Ion Ratio Lower Upper

105 100

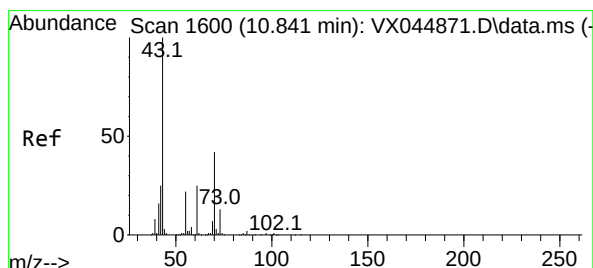
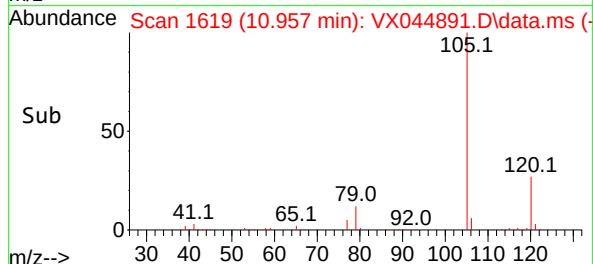
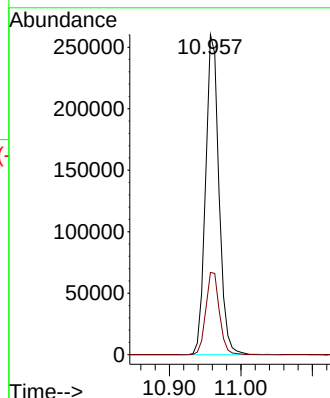
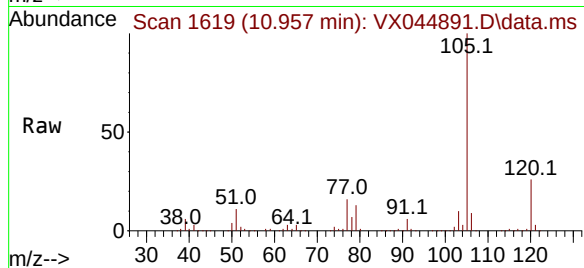
120 26.1 13.2 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#74

N-ethyl acetate

Concen: 54.857 ug/l

RT: 10.841 min Scan# 1600

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Tgt Ion: 43 Resp: 168475

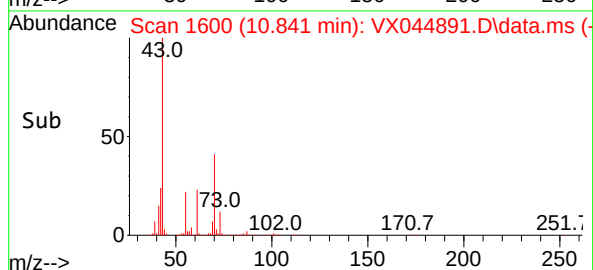
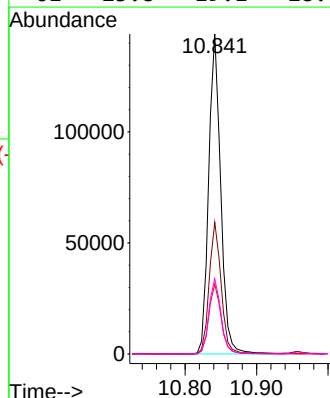
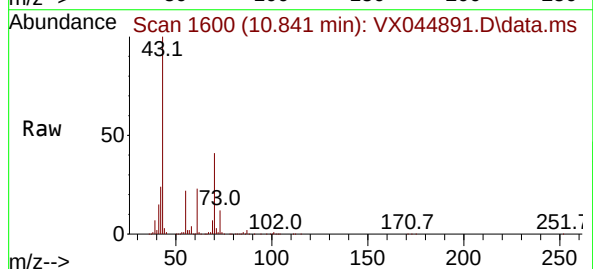
Ion Ratio Lower Upper

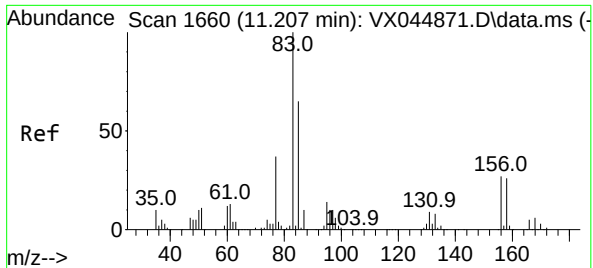
43 100

70 41.2 33.7 50.5

55 22.3 18.6 27.8

61 23.8 19.1 28.7





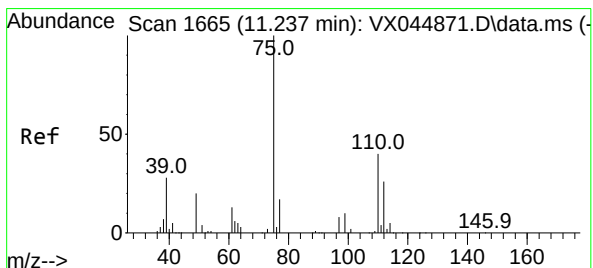
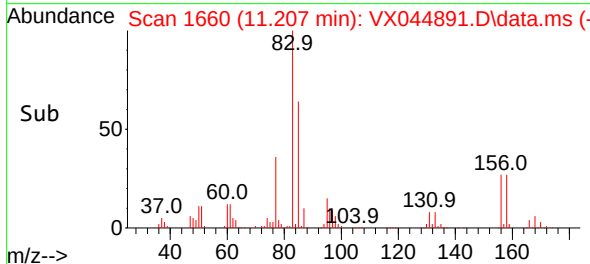
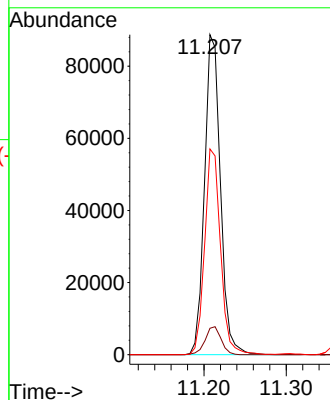
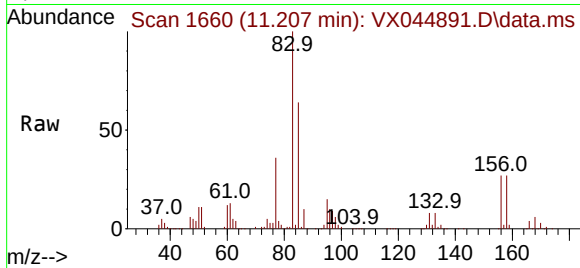
#75
1,1,2,2-Tetrachloroethane
Concen: 51.129 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 11924
Ion Ratio Lower Upper
83 100
131 8.8 4.5 13.5
85 64.3 32.3 96.8

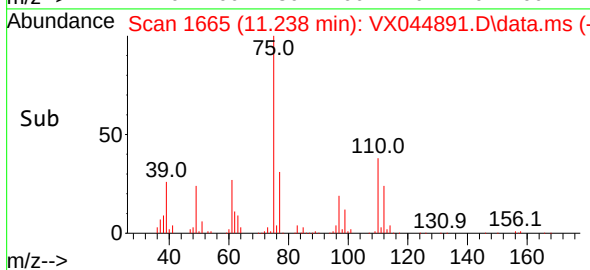
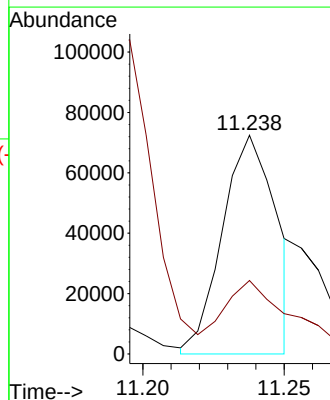
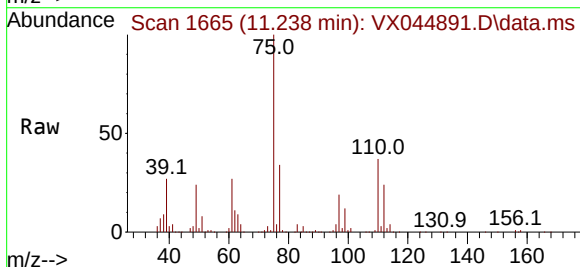
Manual Integrations
APPROVED

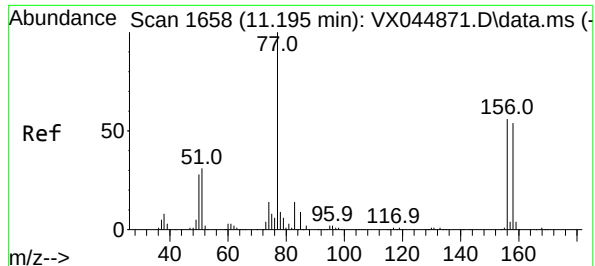
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#76
1,2,3-Trichloropropane
Concen: 51.489 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

Tgt Ion: 75 Resp: 96224
Ion Ratio Lower Upper
75 100
77 43.2 21.9 65.7





#77

Bromobenzene

Concen: 50.436 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion:156 Resp: 77600

Ion Ratio Lower Upper

156 100

77 174.5 88.4 265.3

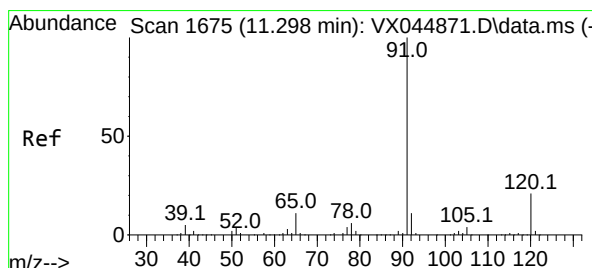
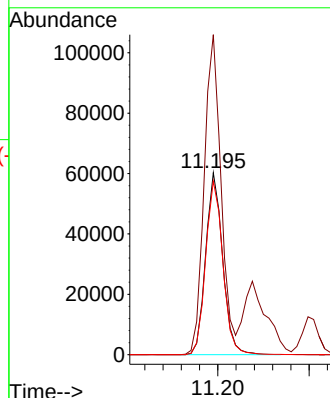
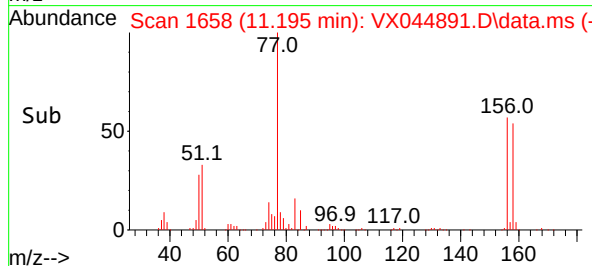
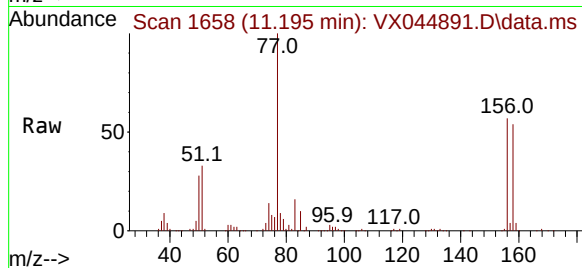
158 97.0 48.4 145.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#78

n-propylbenzene

Concen: 50.408 ug/l

RT: 11.299 min Scan# 1675

Delta R.T. 0.000 min

Lab File: VX044891.D

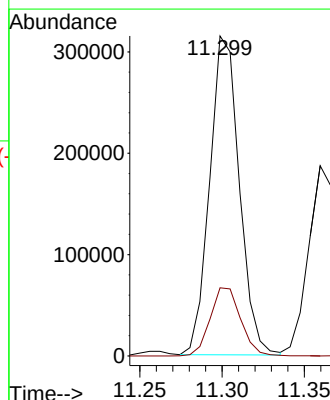
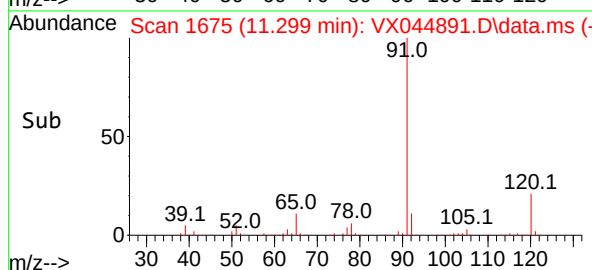
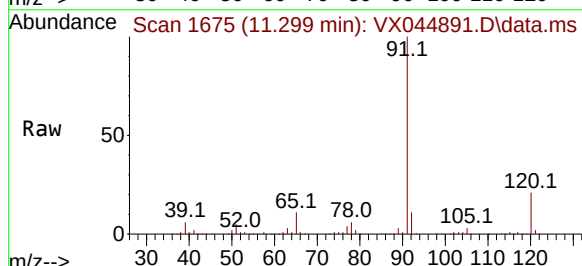
Acq: 10 Feb 2025 19:32

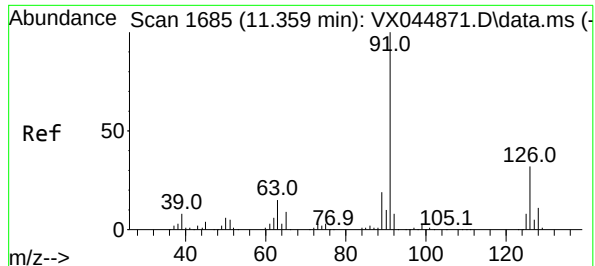
Tgt Ion: 91 Resp: 394875

Ion Ratio Lower Upper

91 100

120 22.1 11.1 33.3





#79

2-Chlorotoluene

Concen: 49.597 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 91 Resp: 238780

Ion Ratio Lower Upper

91 100

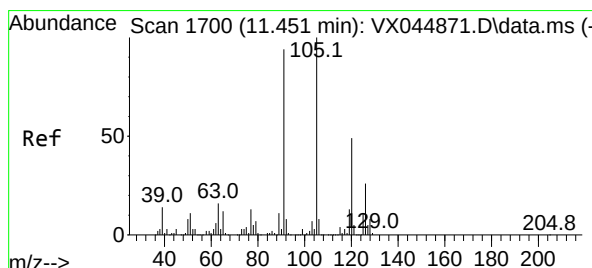
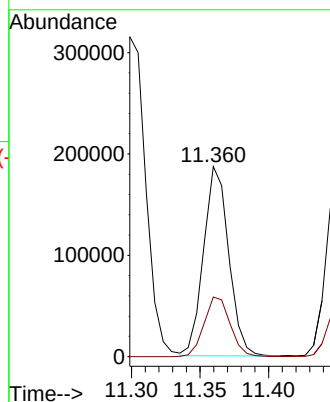
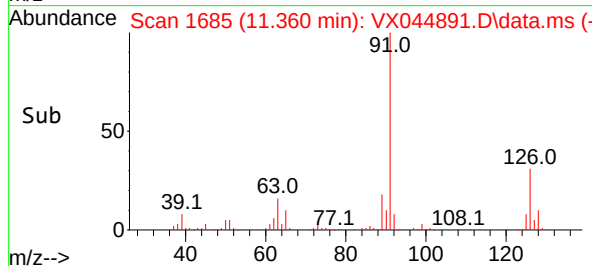
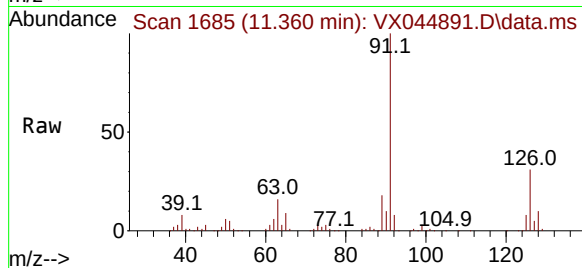
126 32.7 16.2 48.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#80

1,3,5-Trimethylbenzene

Concen: 49.875 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX044891.D

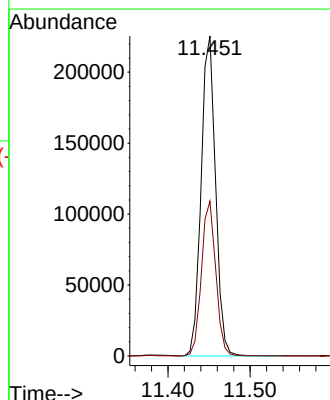
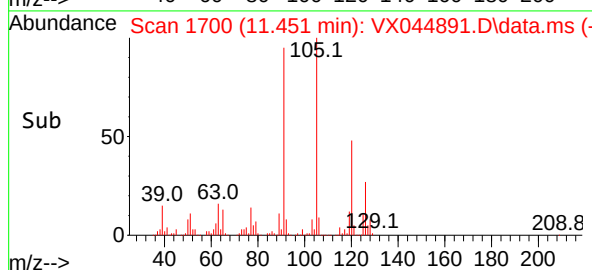
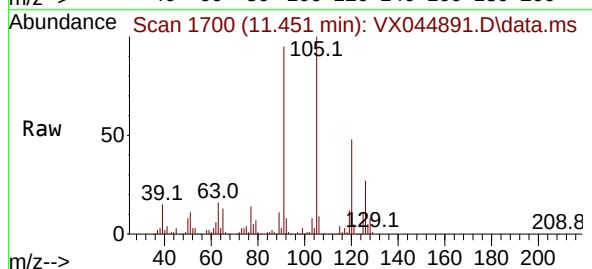
Acq: 10 Feb 2025 19:32

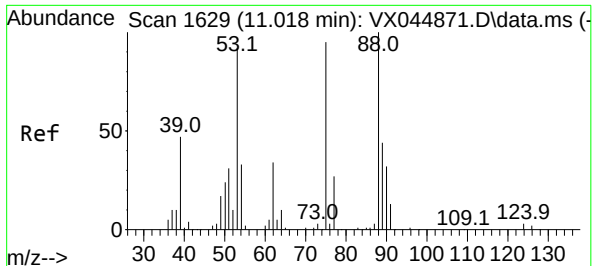
Tgt Ion:105 Resp: 274691

Ion Ratio Lower Upper

105 100

120 48.1 24.0 72.0





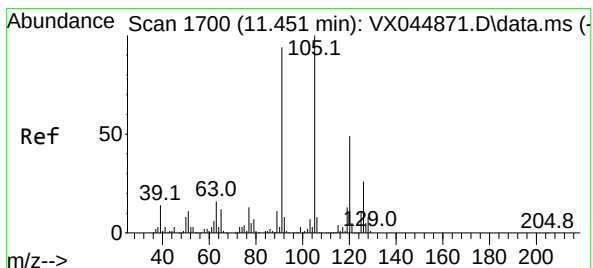
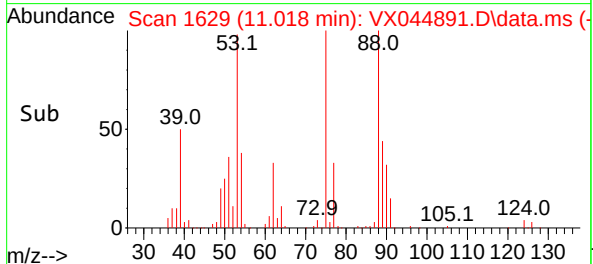
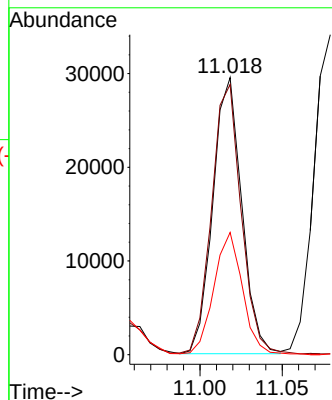
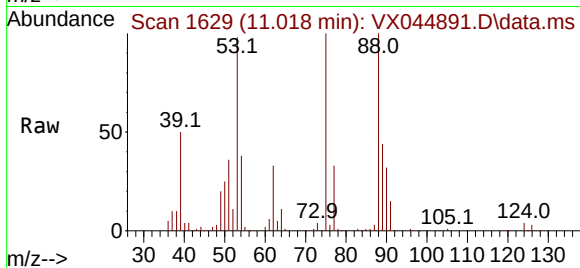
#81
trans-1,4-Dichloro-2-butene
Concen: 49.574 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 36015
Ion Ratio Lower Upper
75 100
53 101.5 78.0 117.0
89 44.0 36.6 54.8

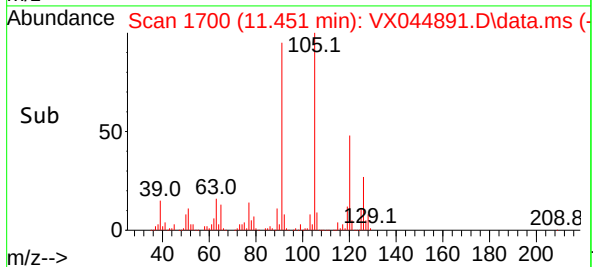
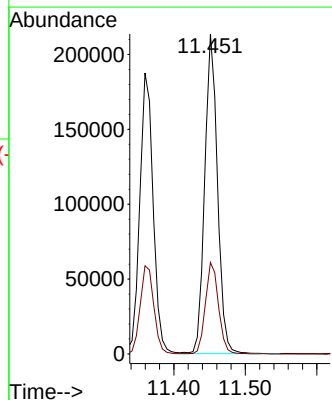
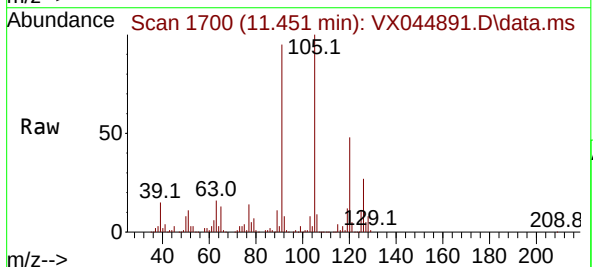
Manual Integrations
APPROVED

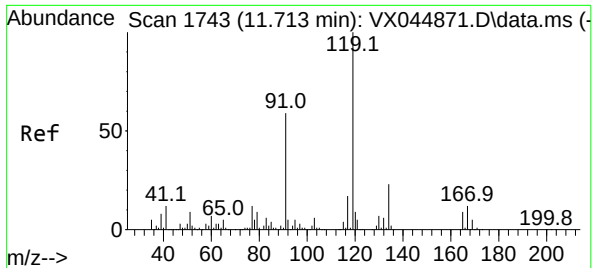
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#82
4-Chlorotoluene
Concen: 49.726 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

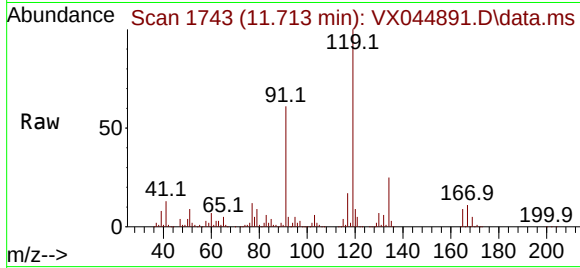
Tgt Ion: 91 Resp: 264864
Ion Ratio Lower Upper
91 100
126 29.5 14.2 42.6





#83
tert-Butylbenzene
Concen: 49.764 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

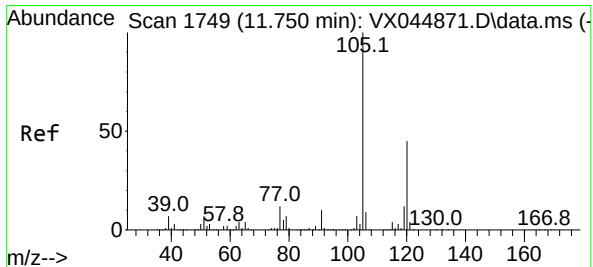
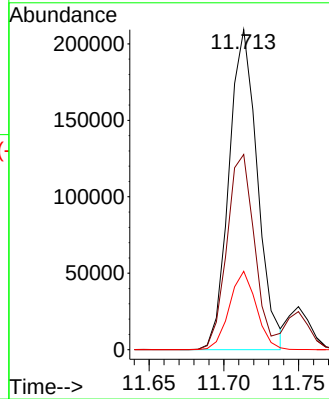
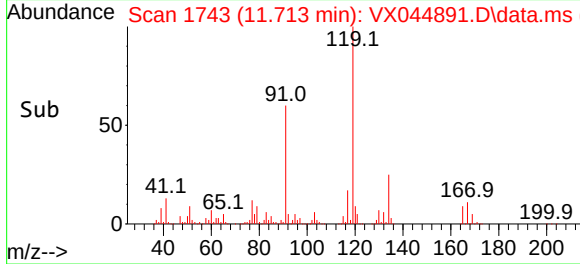
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC



Tgt Ion:119 Resp: 27726
Ion Ratio Lower Upper
119 100
91 58.7 29.1 87.4
134 23.2 11.5 34.5

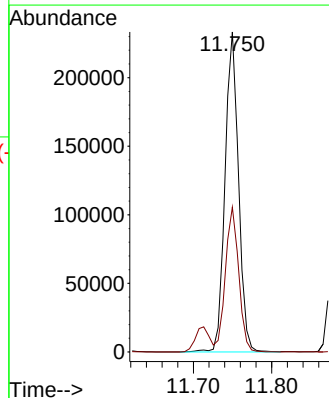
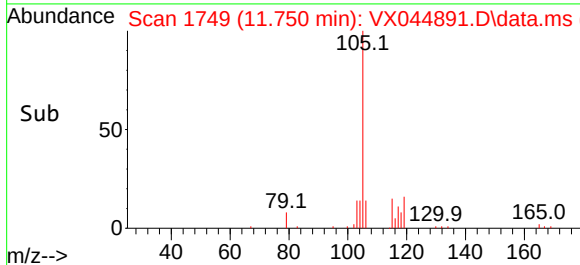
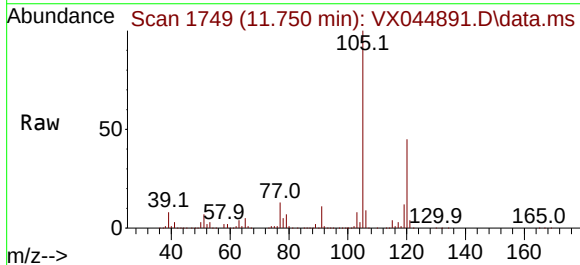
Manual Integrations
APPROVED

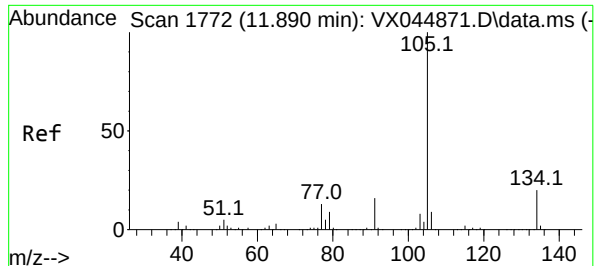
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#84
1,2,4-Trimethylbenzene
Concen: 51.468 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

Tgt Ion:105 Resp: 279774
Ion Ratio Lower Upper
105 100
120 44.8 22.4 67.0





#85

sec-Butylbenzene

Concen: 50.095 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion:105 Resp: 345620

Ion Ratio Lower Upper

105 100

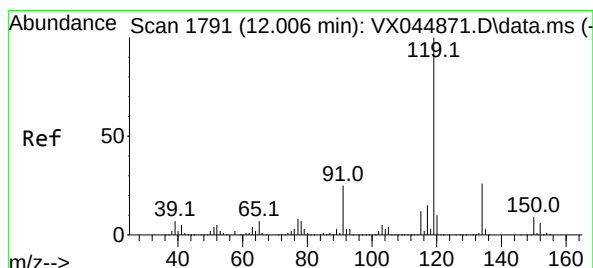
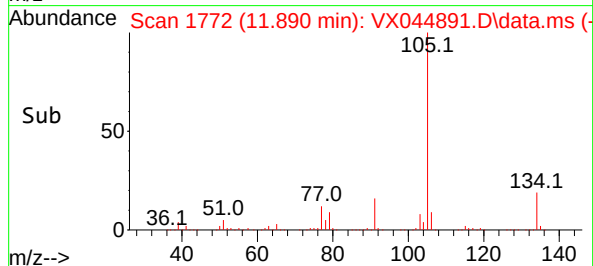
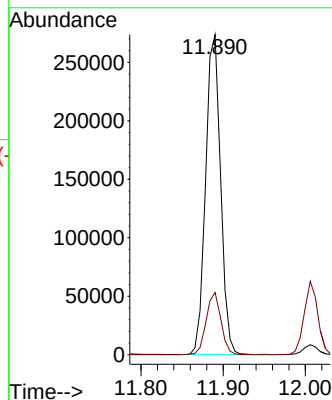
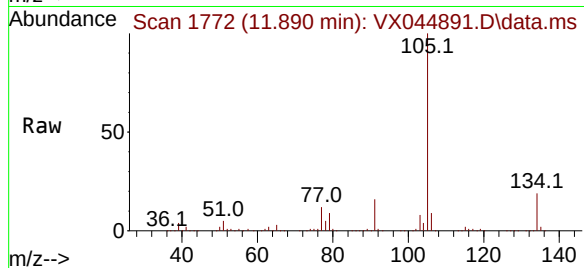
134 19.1 9.8 29.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#86

p-Isopropyltoluene

Concen: 50.257 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

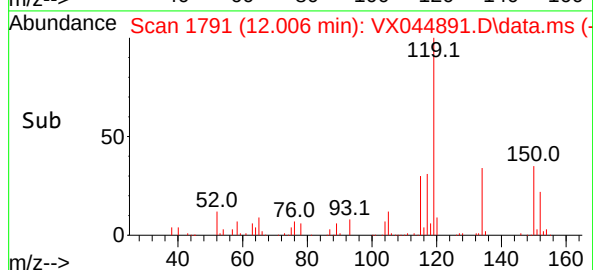
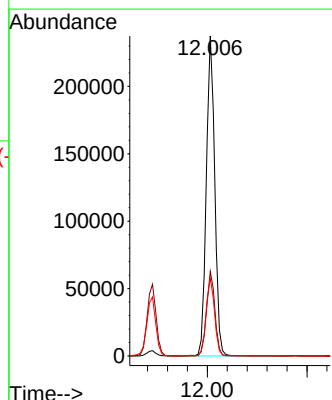
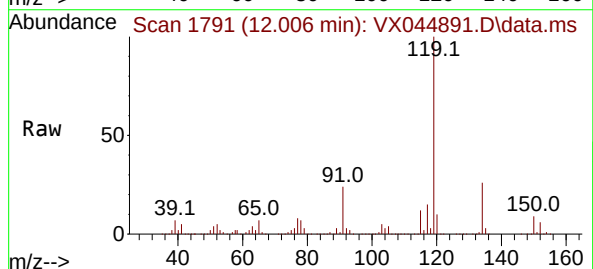
Tgt Ion:119 Resp: 278839

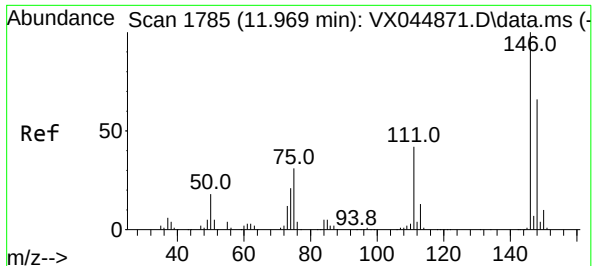
Ion Ratio Lower Upper

119 100

134 26.0 13.0 38.9

91 24.6 12.1 36.3





#87

1,3-Dichlorobenzene

Concen: 49.579 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion:146 Resp: 140288

Ion Ratio Lower Upper

146 100

111 42.6 21.2 63.6

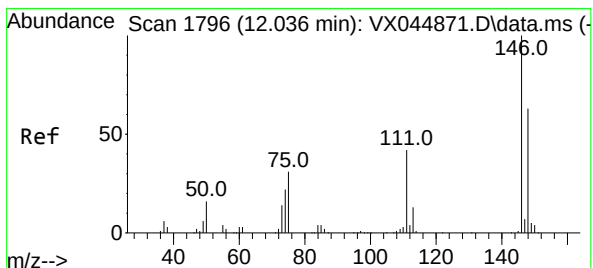
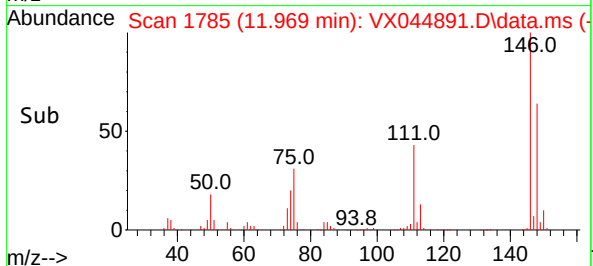
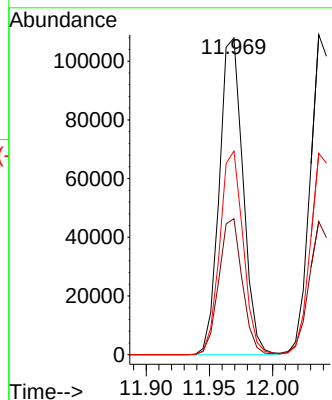
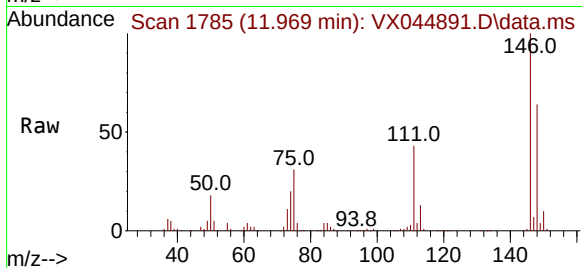
148 63.6 32.5 97.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#88

1,4-Dichlorobenzene

Concen: 49.077 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

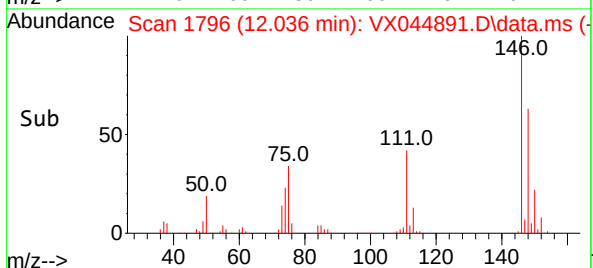
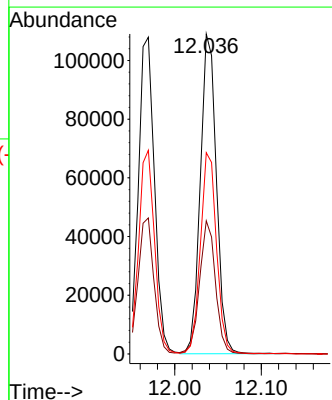
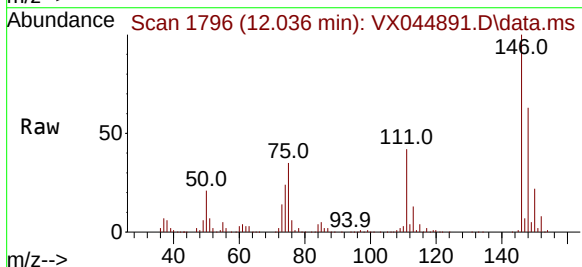
Tgt Ion:146 Resp: 140405

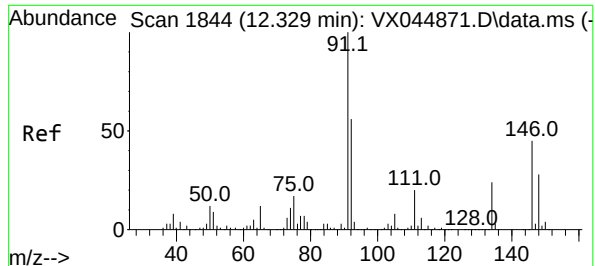
Ion Ratio Lower Upper

146 100

111 41.2 20.4 61.3

148 63.5 32.0 96.0





#89

n-Butylbenzene

Concen: 51.957 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 91 Resp: 255034

Ion Ratio Lower Upper

91 100

92 53.5 27.2 81.6

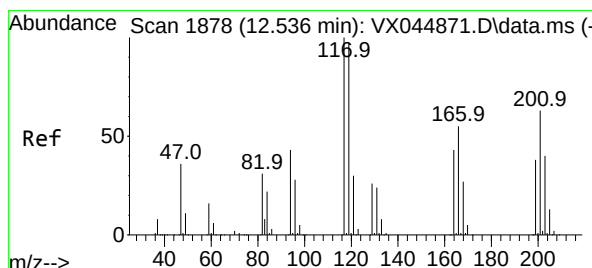
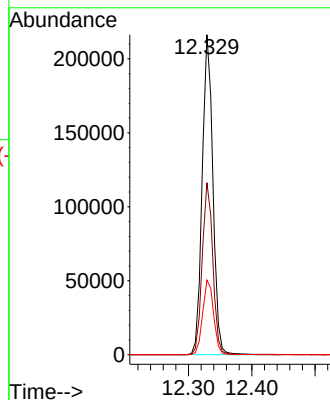
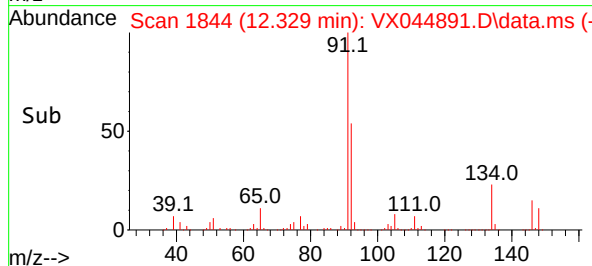
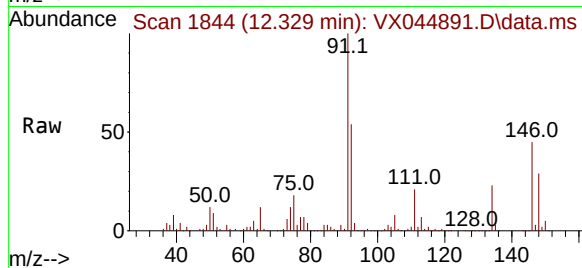
134 23.9 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#90

Hexachloroethane

Concen: 49.962 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX044891.D

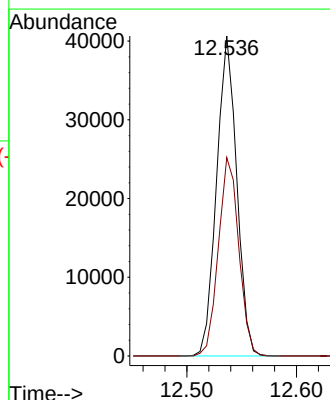
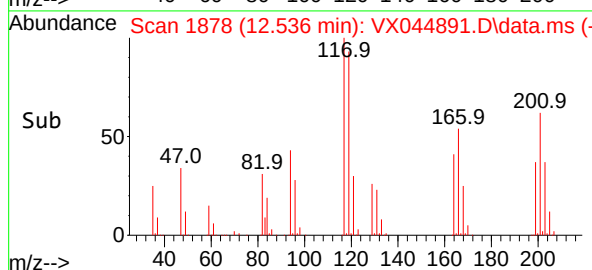
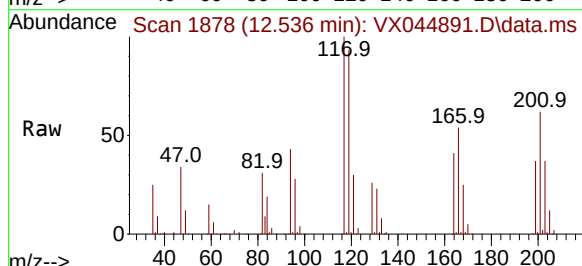
Acq: 10 Feb 2025 19:32

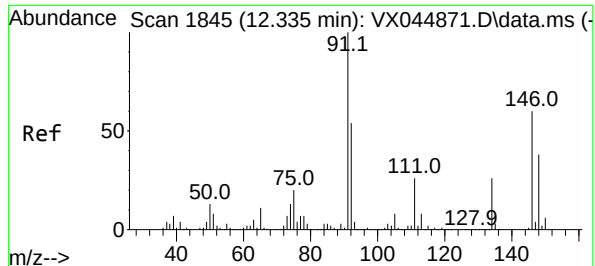
Tgt Ion:117 Resp: 51905

Ion Ratio Lower Upper

117 100

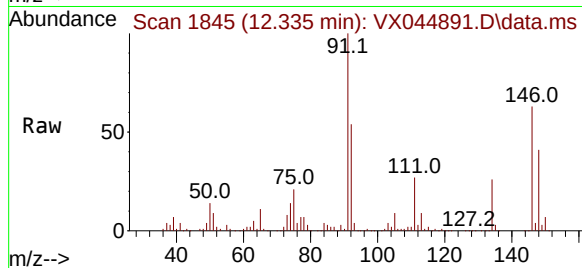
201 62.8 32.5 97.5





#91
1,2-Dichlorobenzene
Concen: 51.021 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

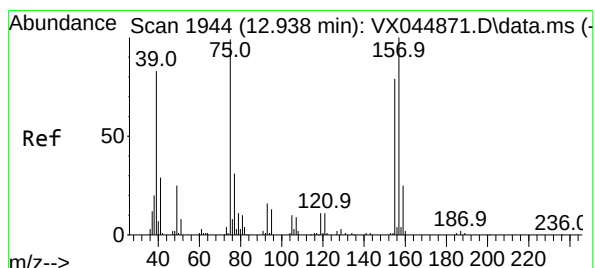
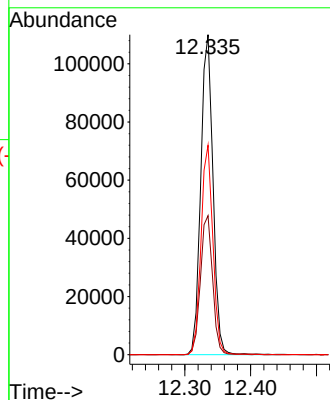
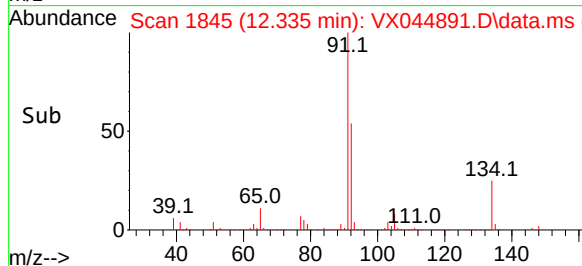
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC



Tgt Ion:146 Resp: 14188
Ion Ratio Lower Upper
146 100
111 43.3 21.8 65.4
148 63.6 31.9 95.9

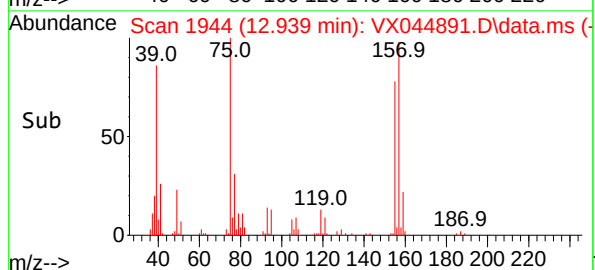
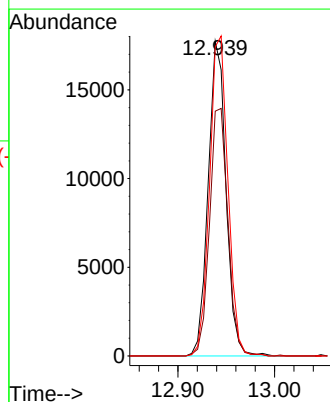
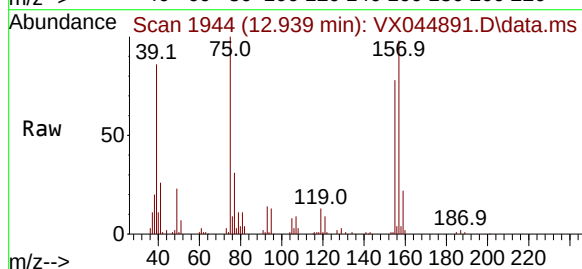
Manual Integrations
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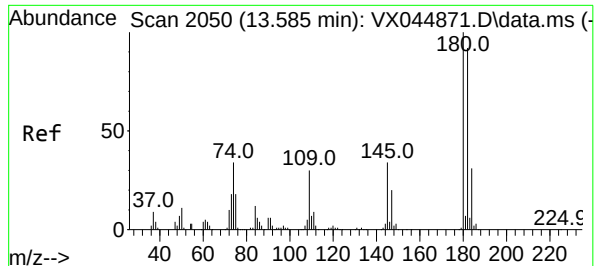
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 53.634 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

Tgt Ion: 75 Resp: 22829
Ion Ratio Lower Upper
75 100
155 81.0 40.5 121.4
157 104.3 51.4 154.3





#93

1,2,4-Trichlorobenzene

Concen: 50.520 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

Tgt Ion:180 Resp: 8501

Ion Ratio Lower Upper

180 100

182 93.4 47.6 142.8

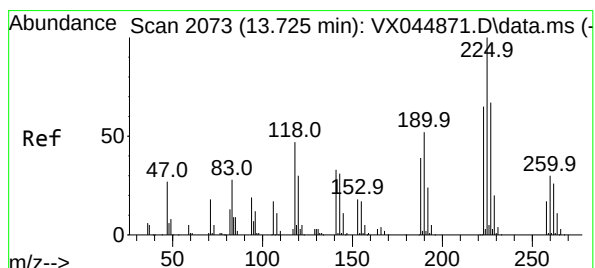
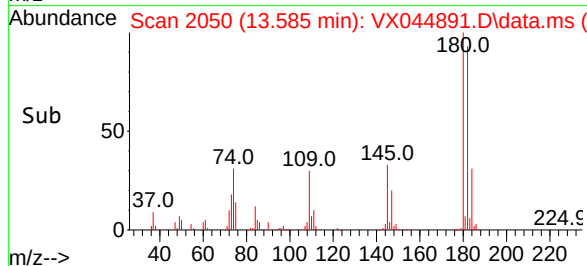
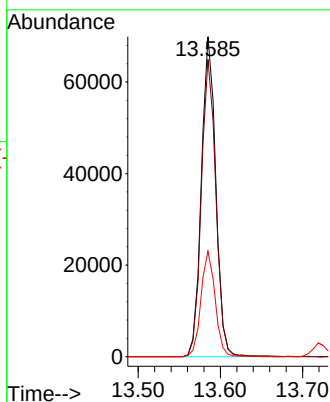
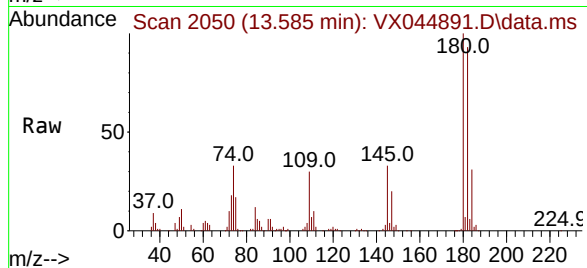
145 32.4 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#94

Hexachlorobutadiene

Concen: 46.524 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX044891.D

Acq: 10 Feb 2025 19:32

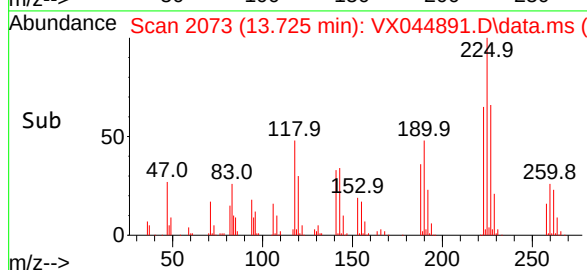
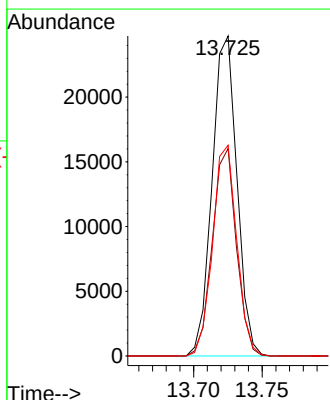
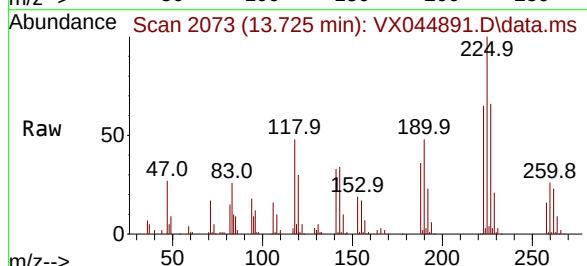
Tgt Ion:225 Resp: 31079

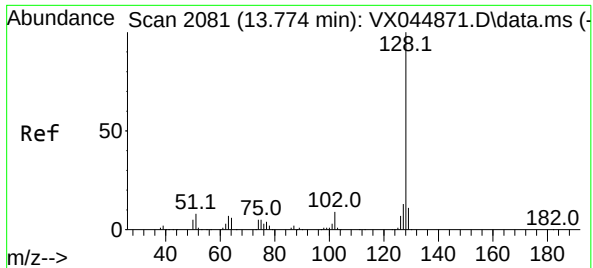
Ion Ratio Lower Upper

225 100

223 62.9 31.4 94.2

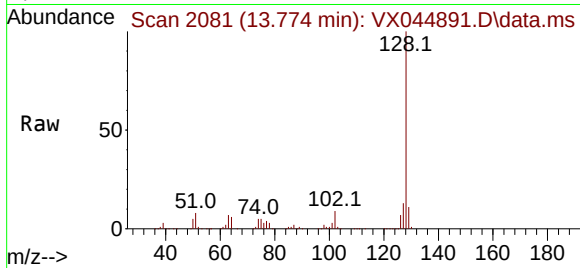
227 64.2 32.3 96.8





#95
Naphthalene
Concen: 52.905 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

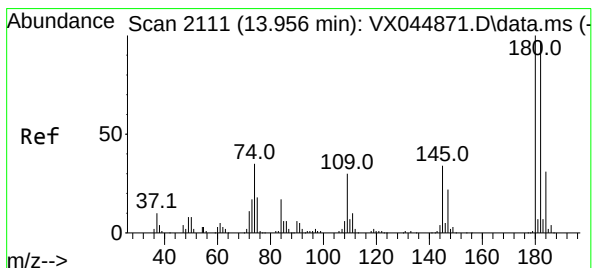
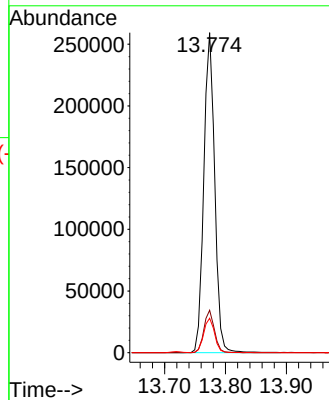
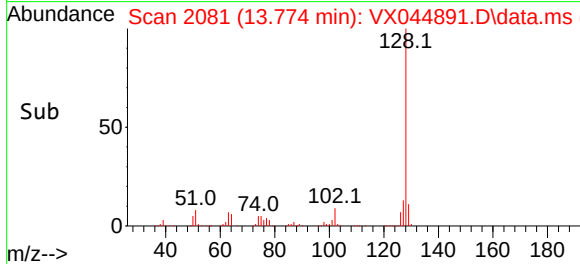
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC



Tgt Ion:128 Resp: 321815
Ion Ratio Lower Upper
128 100
127 12.8 10.1 15.1
129 10.8 8.9 13.3

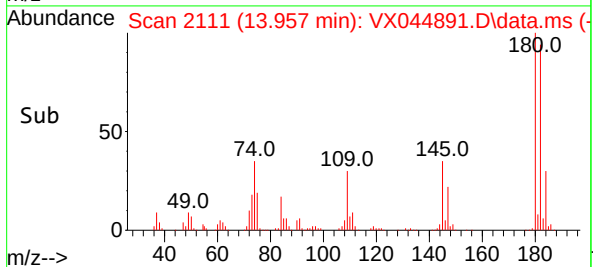
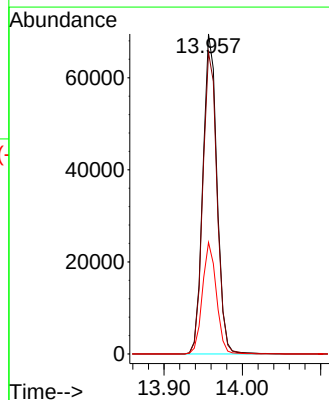
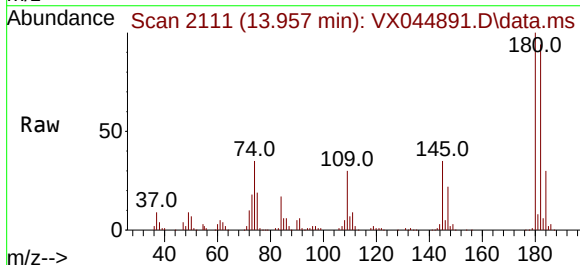
Manual Integrations
APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.110 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044891.D
Acq: 10 Feb 2025 19:32

Tgt Ion:180 Resp: 86663
Ion Ratio Lower Upper
180 100
182 95.3 47.9 143.6
145 34.5 17.1 51.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044891.D
 Acq On : 10 Feb 2025 19:32
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Feb 11 06:11:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 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	91	0.00
2 T	Dichlorodifluoromethane	0.701	0.666	5.0	86	0.00
3 P	Chloromethane	0.854	0.831	2.7	89	0.00
4 C	Vinyl Chloride	0.827	0.785	5.1#	88	0.00
5 T	Bromomethane	0.247	0.245	0.8	89	0.00
6 T	Chloroethane	0.307	0.279	9.1	74	0.00
7 T	Trichlorofluoromethane	1.046	1.008	3.6	89	0.00
8 T	Diethyl Ether	0.379	0.369	2.6	89	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.632	0.593	6.2	86	0.00
10 T	Methyl Iodide	0.819	0.840	-2.6	90	0.00
11 T	Tert butyl alcohol	0.136	0.145	-6.6	96	0.00
12 CM	1,1-Dichloroethene	0.644	0.635	1.4#	91	0.00
13 T	Acrolein	0.140	0.165	-17.9	106	0.00
14 T	Allyl chloride	1.165	1.169	-0.3	92	0.00
15 T	Acrylonitrile	0.363	0.387	-6.6	93	0.00
16 T	Acetone	0.294	0.310	-5.4	96	0.00
17 T	Carbon Disulfide	1.767	1.726	2.3	89	0.00
18 T	Methyl Acetate	0.928	1.001	-7.9	96	0.00
19 T	Methyl tert-butyl Ether	2.050	2.132	-4.0	94	0.00
20 T	Methylene Chloride	0.721	0.714	1.0	92	0.00
21 T	trans-1,2-Dichloroethene	0.634	0.636	-0.3	90	0.00
22 T	Diisopropyl ether	2.203	2.308	-4.8	93	0.00
23 T	Vinyl Acetate	1.796	1.942	-8.1	95	0.00
24 P	1,1-Dichloroethane	1.233	1.250	-1.4	92	0.00
25 T	2-Butanone	0.478	0.524	-9.6	94	0.00
26 T	2,2-Dichloropropane	0.978	0.895	8.5	85	0.00
27 T	cis-1,2-Dichloroethene	0.762	0.787	-3.3	94	0.00
28 T	Bromochloromethane	0.593	0.566	4.6	88	0.00
29 T	Tetrahydrofuran	0.317	0.342	-7.9	94	0.00
30 C	Chloroform	1.196	1.209	-1.1#	94	0.00
31 T	Cyclohexane	1.137	1.064	6.4	86	0.00
32 T	1,1,1-Trichloroethane	1.014	1.008	0.6	91	0.00
33 S	1,2-Dichloroethane-d4	0.732	0.679	7.2	85	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
35 S	Dibromofluoromethane	0.325	0.294	9.5	85	0.00
36 T	1,1-Dichloropropene	0.469	0.444	5.3	89	0.00
37 T	Ethyl Acetate	0.522	0.539	-3.3	94	0.00
38 T	Carbon Tetrachloride	0.460	0.438	4.8	89	0.00
39 T	Methylcyclohexane	0.606	0.575	5.1	85	0.00
40 TM	Benzene	1.465	1.458	0.5	92	0.00
41 T	Methacrylonitrile	0.279	0.303	-8.6	92	0.00
42 TM	1,2-Dichloroethane	0.467	0.487	-4.3	95	0.00
43 T	Isopropyl Acetate	0.842	0.903	-7.2	95	0.00
44 TM	Trichloroethene	0.335	0.330	1.5	91	0.00
45 C	1,2-Dichloropropane	0.364	0.373	-2.5#	94	0.00
46 T	Dibromomethane	0.253	0.259	-2.4	94	0.00
47 T	Bromodichloromethane	0.489	0.511	-4.5	94	0.00
48 T	Methyl methacrylate	0.397	0.435	-9.6	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044891.D
 Acq On : 10 Feb 2025 19:32
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Feb 11 06:11:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.009	0.009	0.0	95	0.00
50 S	Toluene-d8	1.229	1.099	10.6	82	0.00
51 T	4-Methyl-2-Pentanone	0.512	0.566	-10.5	94	0.00
52 CM	Toluene	0.872	0.879	-0.8#	90	0.00
53 T	t-1,3-Dichloropropene	0.495	0.512	-3.4	92	0.00
54 T	cis-1,3-Dichloropropene	0.552	0.577	-4.5	92	0.00
55 T	1,1,2-Trichloroethane	0.335	0.350	-4.5	95	0.00
56 T	Ethyl methacrylate	0.542	0.594	-9.6	95	0.00
57 T	1,3-Dichloropropane	0.587	0.612	-4.3	93	0.00
58 T	2-Chloroethyl Vinyl ether	0.266	0.302	-13.5	97	0.00
59 T	2-Hexanone	0.369	0.413	-11.9	94	0.00
60 T	Dibromochloromethane	0.359	0.384	-7.0	95	0.00
61 T	1,2-Dibromoethane	0.340	0.361	-6.2	95	0.00
62 S	4-Bromofluorobenzene	0.414	0.382	7.7	82	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
64 T	Tetrachloroethene	0.315	0.293	7.0	88	0.00
65 PM	Chlorobenzene	1.074	1.078	-0.4	92	0.00
66 T	1,1,1,2-Tetrachloroethane	0.346	0.349	-0.9	92	0.00
67 C	Ethyl Benzene	1.895	1.898	-0.2#	92	0.00
68 T	m/p-Xylenes	0.699	0.704	-0.7	91	0.00
69 T	o-Xylene	0.701	0.707	-0.9	93	0.00
70 T	Styrene	1.130	1.169	-3.5	91	0.00
71 P	Bromoform	0.258	0.270	-4.7	90	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00
73 T	Isopropylbenzene	4.026	4.020	0.1	90	0.00
74 T	N-amyl acetate	1.822	1.999	-9.7	96	0.00
75 P	1,1,2,2-Tetrachloroethane	1.383	1.415	-2.3	94	0.00
76 T	1,2,3-Trichloropropane	1.109	1.142	-3.0	94	0.00
77 T	Bromobenzene	0.913	0.921	-0.9	92	0.00
78 T	n-propylbenzene	4.647	4.685	-0.8	90	0.00
79 T	2-Chlorotoluene	2.856	2.833	0.8	91	0.00
80 T	1,3,5-Trimethylbenzene	3.267	3.259	0.2	89	0.00
81 T	trans-1,4-Dichloro-2-butene	0.431	0.427	0.9	89	0.00
82 T	4-Chlorotoluene	3.160	3.142	0.6	90	0.00
83 T	tert-Butylbenzene	3.305	3.289	0.5	90	0.00
84 T	1,2,4-Trimethylbenzene	3.225	3.319	-2.9	90	0.00
85 T	sec-Butylbenzene	4.093	4.100	-0.2	90	0.00
86 T	p-Isopropyltoluene	3.291	3.308	-0.5	88	0.00
87 T	1,3-Dichlorobenzene	1.678	1.664	0.8	90	0.00
88 T	1,4-Dichlorobenzene	1.697	1.666	1.8	90	0.00
89 T	n-Butylbenzene	2.912	3.026	-3.9	89	0.00
90 T	Hexachloroethane	0.616	0.616	0.0	91	0.00
91 T	1,2-Dichlorobenzene	1.650	1.683	-2.0	92	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.252	0.271	-7.5	95	0.00
93 T	1,2,4-Trichlorobenzene	0.998	1.009	-1.1	91	0.00
94 T	Hexachlorobutadiene	0.396	0.369	6.8	88	0.00
95 T	Naphthalene	3.608	3.818	-5.8	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044891.D
Acq On : 10 Feb 2025 19:32
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 11 06:11:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 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	1.006	1.028	-2.2	91	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044891.D
 Acq On : 10 Feb 2025 19:32
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Feb 11 06:11:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 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	91	0.00
2 T	Dichlorodifluoromethane	50.000	47.485	5.0	86	0.00
3 P	Chloromethane	50.000	48.704	2.6	89	0.00
4 C	Vinyl Chloride	50.000	47.498	5.0#	88	0.00
5 T	Bromomethane	50.000	49.478	1.0	89	0.00
6 T	Chloroethane	50.000	42.133	15.7	74	0.00
7 T	Trichlorofluoromethane	50.000	48.218	3.6	89	0.00
8 T	Diethyl Ether	50.000	48.595	2.8	89	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	46.958	6.1	86	0.00
10 T	Methyl Iodide	50.000	51.306	-2.6	90	0.00
11 T	Tert butyl alcohol	250.000	266.439	-6.6	96	0.00
12 CM	1,1-Dichloroethene	50.000	49.231	1.5#	91	0.00
13 T	Acrolein	250.000	295.107	-18.0	106	0.00
14 T	Allyl chloride	50.000	50.181	-0.4	92	0.00
15 T	Acrylonitrile	250.000	267.016	-6.8	93	0.00
16 T	Acetone	250.000	263.557	-5.4	96	0.00
17 T	Carbon Disulfide	50.000	48.833	2.3	89	0.00
18 T	Methyl Acetate	50.000	53.889	-7.8	96	0.00
19 T	Methyl tert-butyl Ether	50.000	51.988	-4.0	94	0.00
20 T	Methylene Chloride	50.000	49.565	0.9	92	0.00
21 T	trans-1,2-Dichloroethene	50.000	50.125	-0.3	90	0.00
22 T	Diisopropyl ether	50.000	52.378	-4.8	93	0.00
23 T	Vinyl Acetate	250.000	270.230	-8.1	95	0.00
24 P	1,1-Dichloroethane	50.000	50.685	-1.4	92	0.00
25 T	2-Butanone	250.000	274.319	-9.7	94	0.00
26 T	2,2-Dichloropropane	50.000	45.749	8.5	85	0.00
27 T	cis-1,2-Dichloroethene	50.000	51.638	-3.3	94	0.00
28 T	Bromochloromethane	50.000	47.785	4.4	88	0.00
29 T	Tetrahydrofuran	250.000	269.401	-7.8	94	0.00
30 C	Chloroform	50.000	50.578	-1.2#	94	0.00
31 T	Cyclohexane	50.000	46.807	6.4	86	0.00
32 T	1,1,1-Trichloroethane	50.000	49.716	0.6	91	0.00
33 S	1,2-Dichloroethane-d4	50.000	46.358	7.3	85	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	92	0.00
35 S	Dibromofluoromethane	50.000	45.228	9.5	85	0.00
36 T	1,1-Dichloropropene	50.000	47.355	5.3	89	0.00
37 T	Ethyl Acetate	50.000	51.668	-3.3	94	0.00
38 T	Carbon Tetrachloride	50.000	47.672	4.7	89	0.00
39 T	Methylcyclohexane	50.000	47.455	5.1	85	0.00
40 TM	Benzene	50.000	49.777	0.4	92	0.00
41 T	Methacrylonitrile	50.000	54.178	-8.4	92	0.00
42 TM	1,2-Dichloroethane	50.000	52.115	-4.2	95	0.00
43 T	Isopropyl Acetate	50.000	53.572	-7.1	95	0.00
44 TM	Trichloroethene	50.000	49.266	1.5	91	0.00
45 C	1,2-Dichloropropane	50.000	51.151	-2.3#	94	0.00
46 T	Dibromomethane	50.000	51.296	-2.6	94	0.00
47 T	Bromodichloromethane	50.000	52.204	-4.4	94	0.00
48 T	Methyl methacrylate	50.000	54.789	-9.6	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044891.D
 Acq On : 10 Feb 2025 19:32
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Feb 11 06:11:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 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	1082.326	-8.2	95	0.00
50 S	Toluene-d8	50.000	44.684	10.6	82	0.00
51 T	4-Methyl-2-Pentanone	250.000	276.156	-10.5	94	0.00
52 CM	Toluene	50.000	50.393	-0.8#	90	0.00
53 T	t-1,3-Dichloropropene	50.000	51.740	-3.5	92	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.280	-4.6	92	0.00
55 T	1,1,2-Trichloroethane	50.000	52.250	-4.5	95	0.00
56 T	Ethyl methacrylate	50.000	54.857	-9.7	95	0.00
57 T	1,3-Dichloropropane	50.000	52.155	-4.3	93	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	284.305	-13.7	97	0.00
59 T	2-Hexanone	250.000	279.774	-11.9	94	0.00
60 T	Dibromochloromethane	50.000	53.511	-7.0	95	0.00
61 T	1,2-Dibromoethane	50.000	53.105	-6.2	95	0.00
62 S	4-Bromofluorobenzene	50.000	46.059	7.9	82	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	93	0.00
64 T	Tetrachloroethene	50.000	46.418	7.2	88	0.00
65 PM	Chlorobenzene	50.000	50.193	-0.4	92	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	50.438	-0.9	92	0.00
67 C	Ethyl Benzene	50.000	50.082	-0.2#	92	0.00
68 T	m/p-Xylenes	100.000	100.639	-0.6	91	0.00
69 T	o-Xylene	50.000	50.390	-0.8	93	0.00
70 T	Styrene	50.000	51.714	-3.4	91	0.00
71 P	Bromoform	50.000	52.331	-4.7	90	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	91	0.00
73 T	Isopropylbenzene	50.000	49.928	0.1	90	0.00
74 T	N-amyl acetate	50.000	54.857	-9.7	96	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	51.129	-2.3	94	0.00
76 T	1,2,3-Trichloropropane	50.000	51.489	-3.0	94	0.00
77 T	Bromobenzene	50.000	50.436	-0.9	92	0.00
78 T	n-propylbenzene	50.000	50.408	-0.8	90	0.00
79 T	2-Chlorotoluene	50.000	49.597	0.8	91	0.00
80 T	1,3,5-Trimethylbenzene	50.000	49.875	0.3	89	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	49.574	0.9	89	0.00
82 T	4-Chlorotoluene	50.000	49.726	0.5	90	0.00
83 T	tert-Butylbenzene	50.000	49.764	0.5	90	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.468	-2.9	90	0.00
85 T	sec-Butylbenzene	50.000	50.095	-0.2	90	0.00
86 T	p-Isopropyltoluene	50.000	50.257	-0.5	88	0.00
87 T	1,3-Dichlorobenzene	50.000	49.579	0.8	90	0.00
88 T	1,4-Dichlorobenzene	50.000	49.077	1.8	90	0.00
89 T	n-Butylbenzene	50.000	51.957	-3.9	89	0.00
90 T	Hexachloroethane	50.000	49.962	0.1	91	0.00
91 T	1,2-Dichlorobenzene	50.000	51.021	-2.0	92	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	53.634	-7.3	95	0.00
93 T	1,2,4-Trichlorobenzene	50.000	50.520	-1.0	91	0.00
94 T	Hexachlorobutadiene	50.000	46.524	7.0	88	0.00
95 T	Naphthalene	50.000	52.905	-5.8	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044891.D
Acq On : 10 Feb 2025 19:32
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 11 06:11:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 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	51.110	-2.2	91	0.00

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



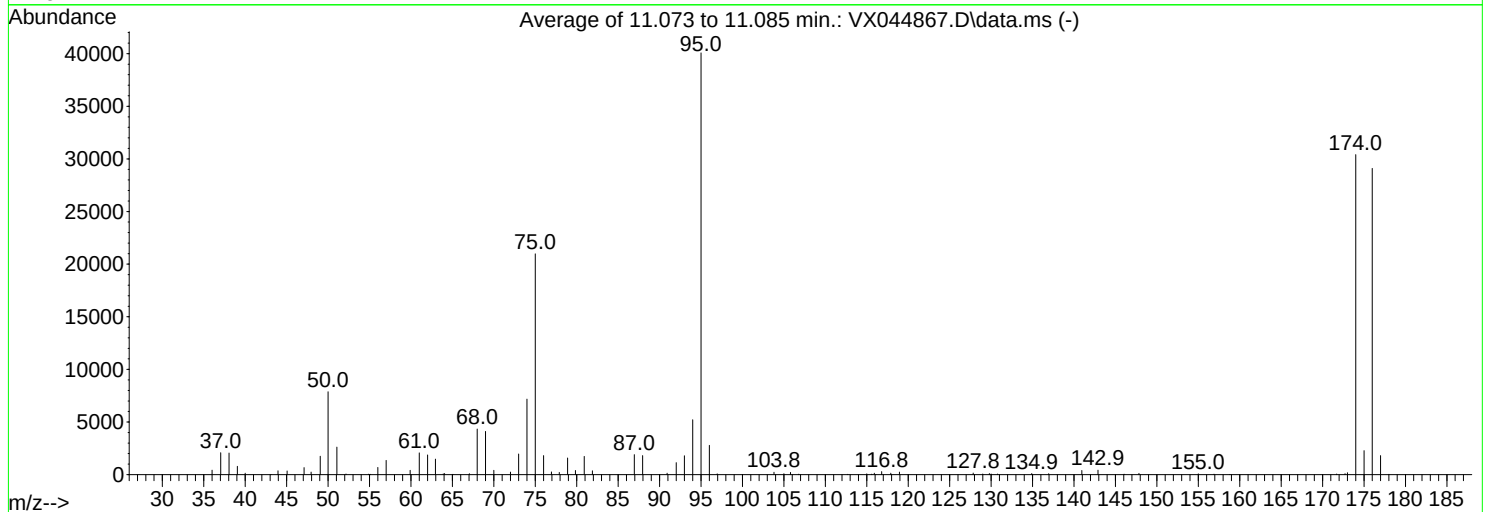
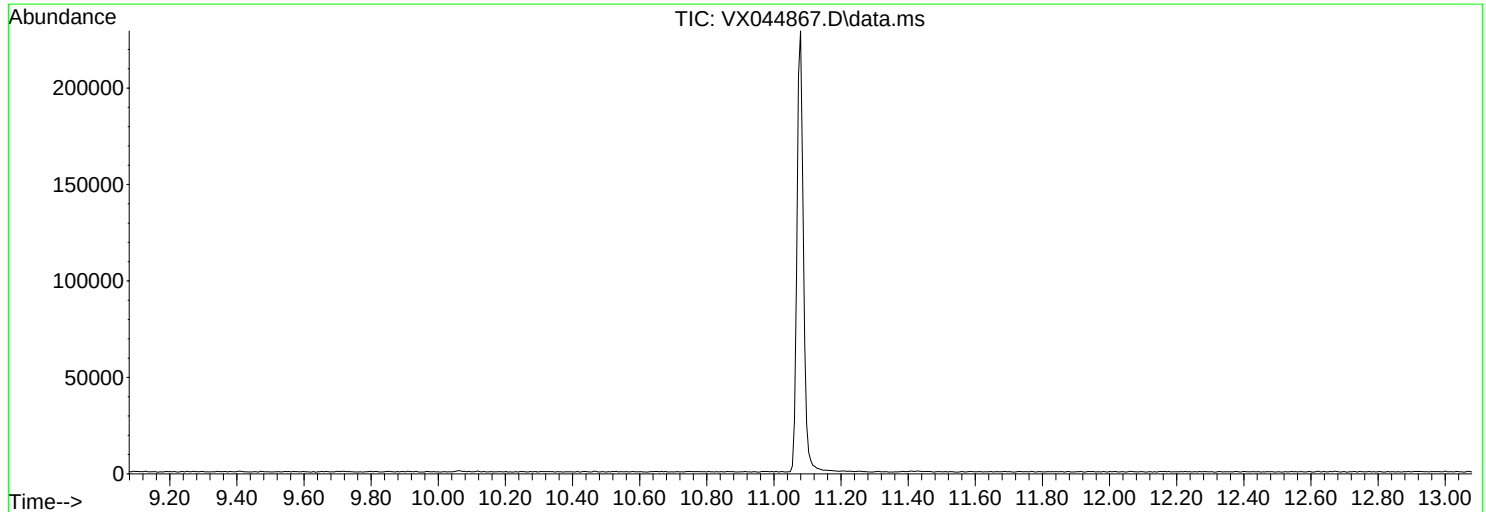
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044867.D
Acq On : 10 Feb 2025 09:35
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\82X021025W.M
Title : SW846 8260
Last Update : Tue Feb 11 03:41:08 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	7876	PASS
75	95	30	60	52.3	20977	PASS
95	95	100	100	100.0	40077	PASS
96	95	5	9	6.9	2783	PASS
173	174	0.00	2	0.6	186	PASS
174	95	50	100	75.9	30400	PASS
175	174	5	9	7.5	2286	PASS
176	174	95	101	95.7	29104	PASS
177	176	5	9	6.2	1810	PASS

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	
Project:	CTO WE13			Date Received:	
Client Sample ID:	VX0210WBL01			SDG No.:	Q1250
Lab Sample ID:	VX0210WBL01			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID :	0.18	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044877.D	1		02/10/25 14:06	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VX0210WBL01	SDG No.:	Q1250
Lab Sample ID:	VX0210WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044877.D	1		02/10/25 14:06	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.5		81 - 118		111%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	50.5		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.2		85 - 114		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	95800	5.544				
540-36-3	1,4-Difluorobenzene	200000	6.757				
3114-55-4	Chlorobenzene-d5	182000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	76700	12.018				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044877.D
 Acq On : 10 Feb 2025 14:06
 Operator : JC/MD
 Sample : VX0210WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0210WBL01

Quant Time: Feb 11 06:03:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	95840	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	200206	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	182254	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	76715	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	77815	55.466	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	110.940%
35) Dibromofluoromethane	5.379	113	64882	49.845	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	99.700%
50) Toluene-d8	8.647	98	248550	50.496	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.000%
62) 4-Bromofluorobenzene	11.079	95	84896	51.162	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	102.320%

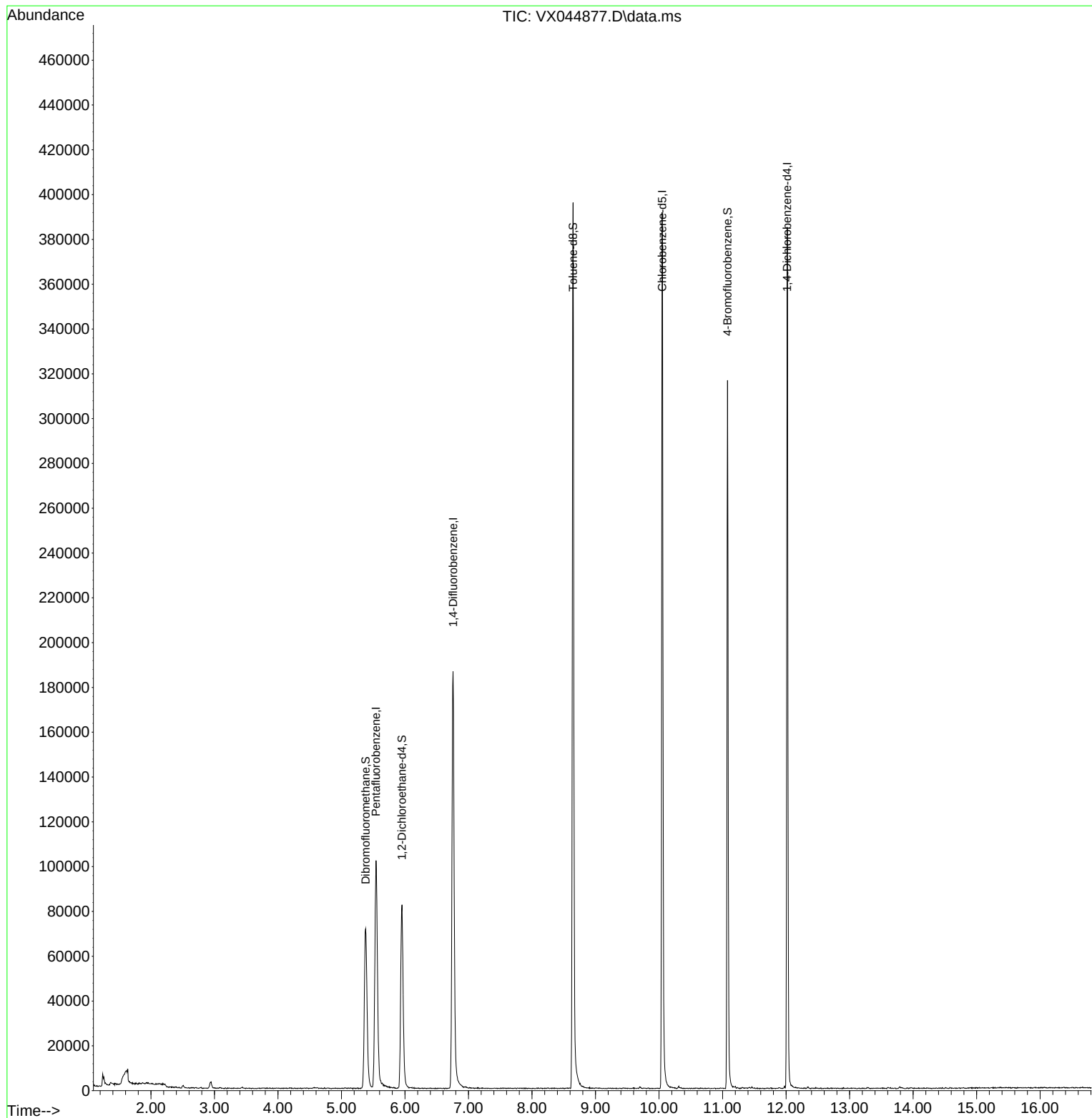
Target Compounds	Qvalue

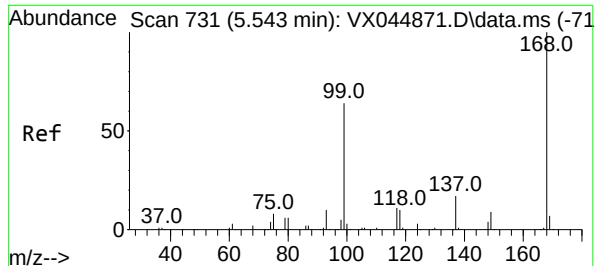
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044877.D
Acq On : 10 Feb 2025 14:06
Operator : JC/MD
Sample : VX0210WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0210WBL01

Quant Time: Feb 11 06:03:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

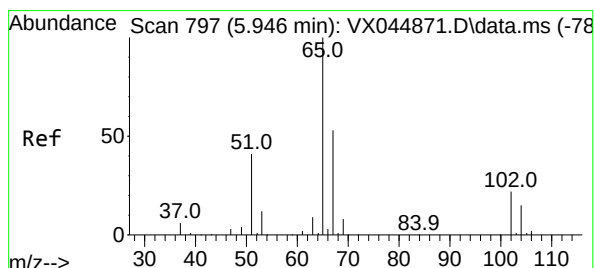
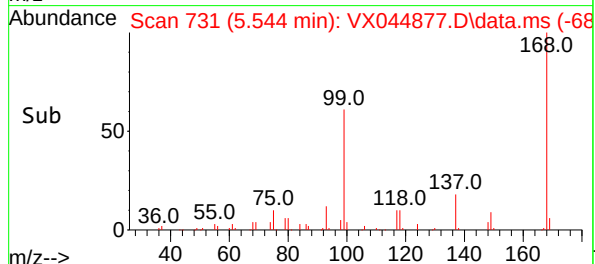
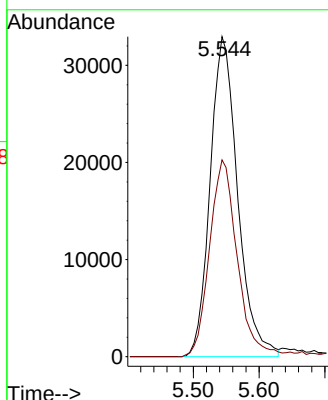
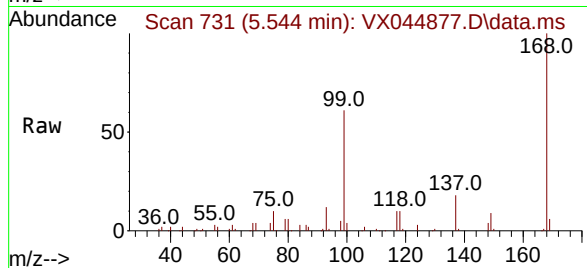




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. 0.001 min
Lab File: VX044877.D
Acq: 10 Feb 2025 14:06

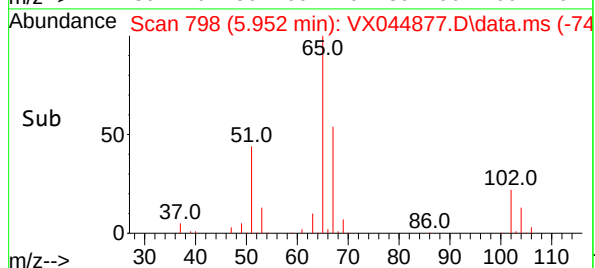
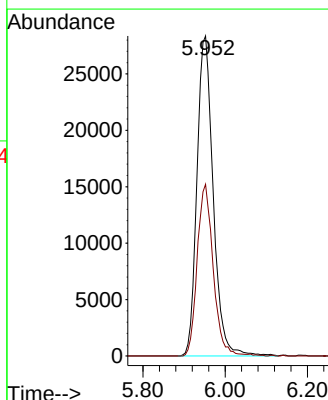
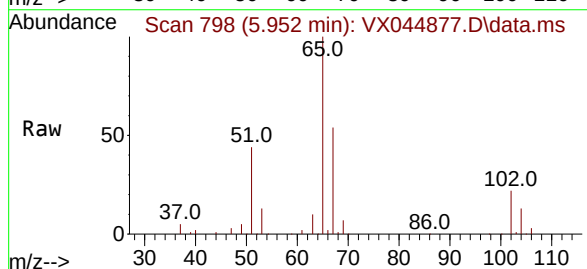
Instrument :
MSVOA_X
ClientSampleId :
VX0210WBL01

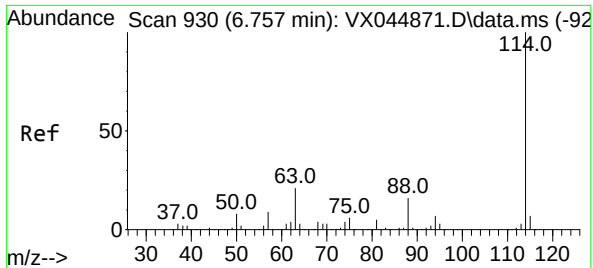
Tgt Ion:168 Resp: 95840
Ion Ratio Lower Upper
168 100
99 61.5 51.2 76.8



#33
1,2-Dichloroethane-d4
Concen: 55.466 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.006 min
Lab File: VX044877.D
Acq: 10 Feb 2025 14:06

Tgt Ion: 65 Resp: 77815
Ion Ratio Lower Upper
65 100
67 52.9 0.0 108.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX044877.D

Acq: 10 Feb 2025 14:06

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBL01

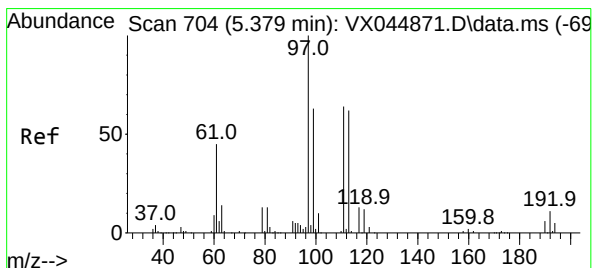
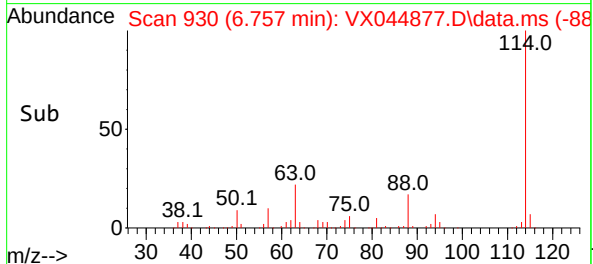
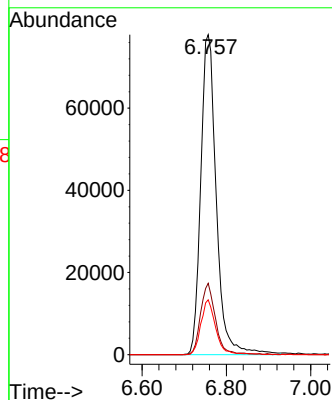
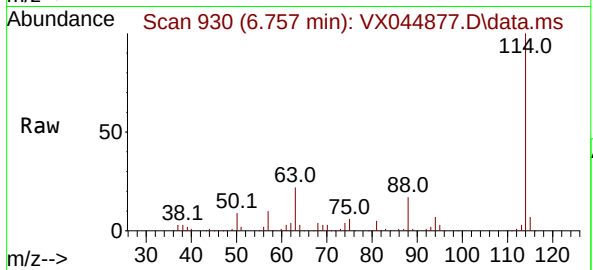
Tgt Ion:114 Resp: 200206

Ion Ratio Lower Upper

114 100

63 22.3 0.0 42.4

88 17.2 0.0 31.4



#35

Dibromofluoromethane

Concen: 49.845 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044877.D

Acq: 10 Feb 2025 14:06

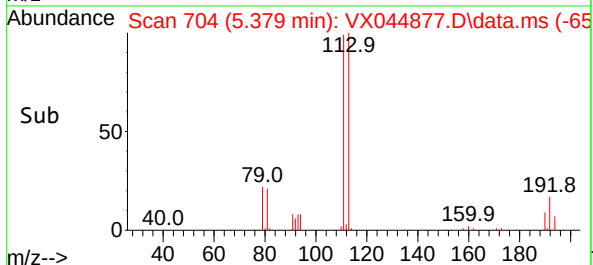
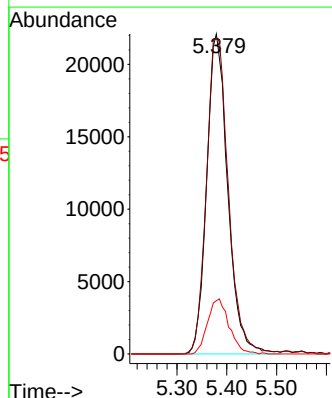
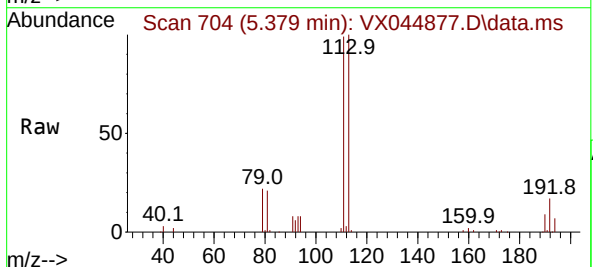
Tgt Ion:113 Resp: 64882

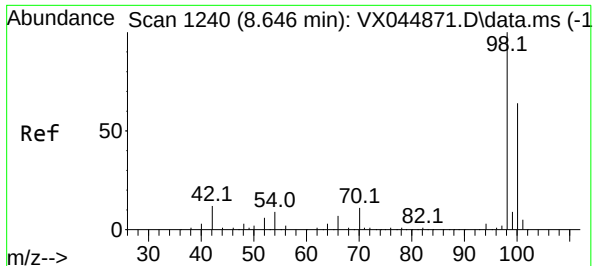
Ion Ratio Lower Upper

113 100

111 103.4 83.5 125.3

192 17.6 14.4 21.6





#50

Toluene-d8

Concen: 50.496 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044877.D

Acq: 10 Feb 2025 14:06

Instrument :

MSVOA_X

ClientSampleId :

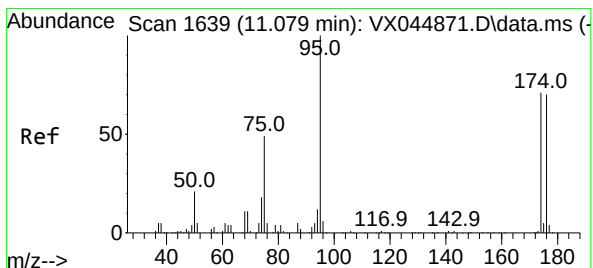
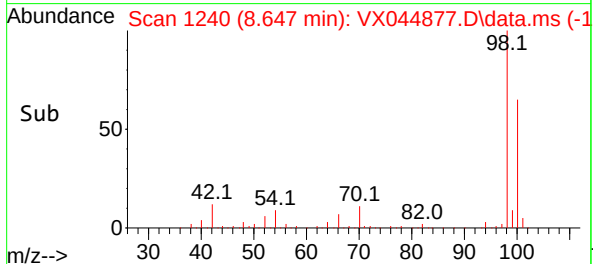
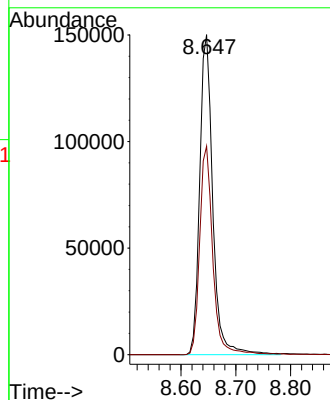
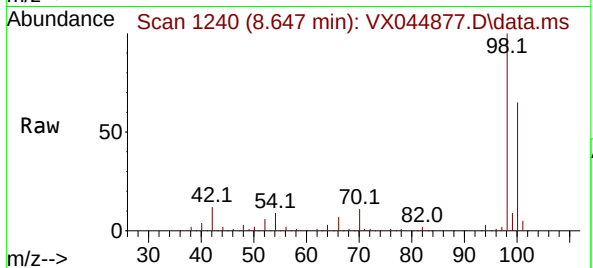
VX0210WBL01

Tgt Ion: 98 Resp: 248550

Ion Ratio Lower Upper

98 100

100 65.5 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 51.162 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX044877.D

Acq: 10 Feb 2025 14:06

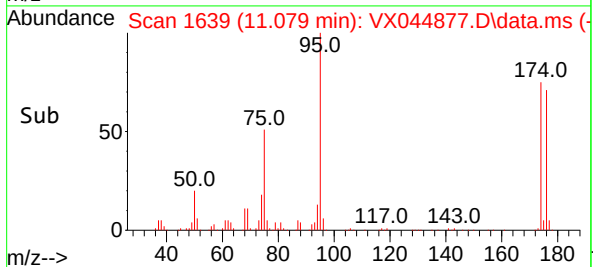
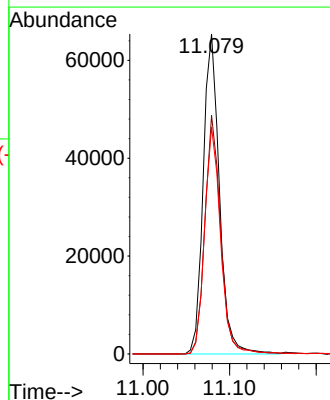
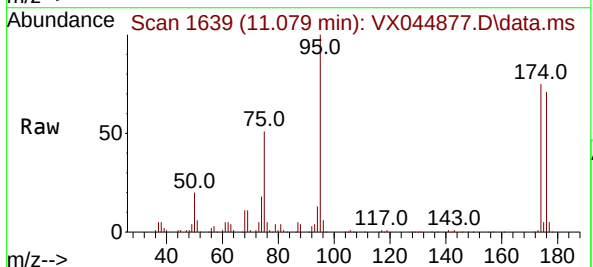
Tgt Ion: 95 Resp: 84896

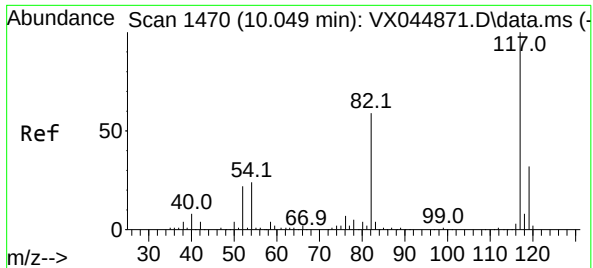
Ion Ratio Lower Upper

95 100

174 72.9 0.0 142.6

176 70.3 0.0 141.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX044877.D

Acq: 10 Feb 2025 14:06

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBL01

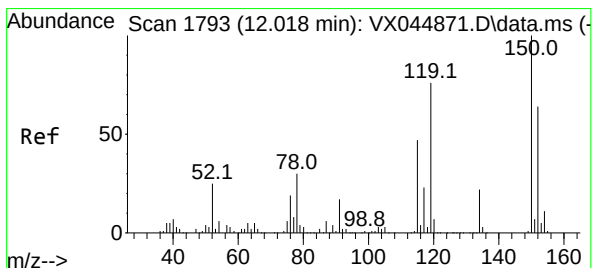
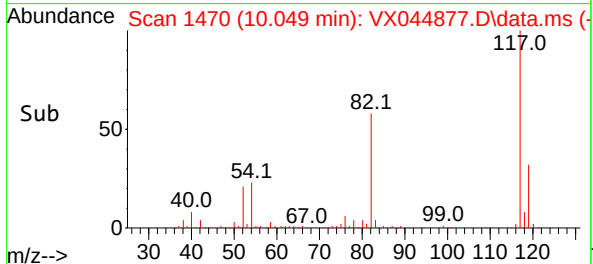
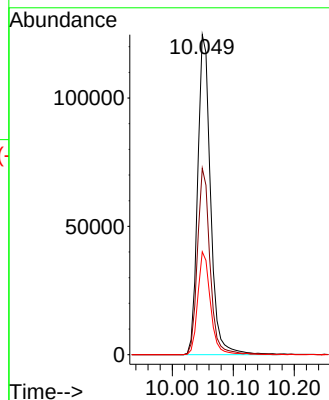
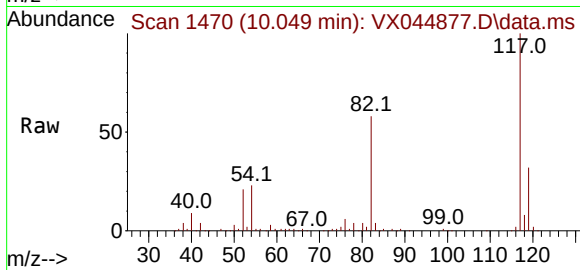
Tgt Ion:117 Resp: 182254

Ion Ratio Lower Upper

117 100

82 58.2 47.5 71.3

119 32.2 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX044877.D

Acq: 10 Feb 2025 14:06

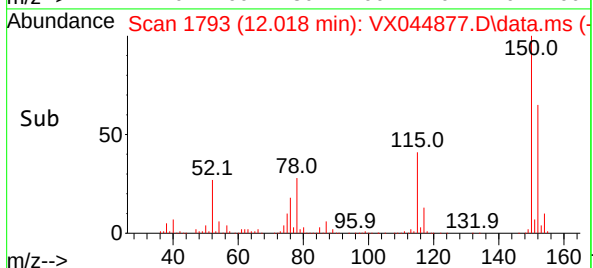
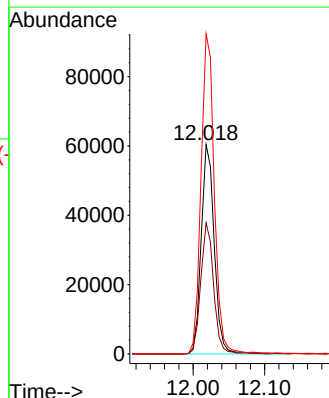
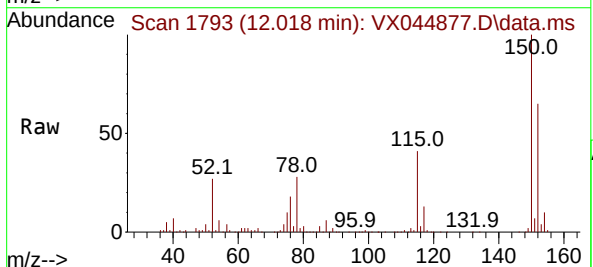
Tgt Ion:152 Resp: 76715

Ion Ratio Lower Upper

152 100

115 61.6 43.4 130.1

150 155.4 0.0 350.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044877.D
Acq On : 10 Feb 2025 14:06
Operator : JC/MD
Sample : VX0210WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0210WBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M

Title : SW846 8260

Signal : TIC: VX044877.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.240	22	25	31	rBV2	5256	9283	1.40%	0.277%
2	1.617	71	87	88	rBV6	5781	23341	3.52%	0.698%
3	5.379	693	704	721	rBV2	71056	212886	32.11%	6.362%
4	5.544	721	731	746	rBV	101066	290767	43.86%	8.689%
5	5.952	787	798	815	rBV	81922	221965	33.48%	6.633%
6	6.757	921	930	955	rBV	185987	466143	70.31%	13.930%
7	8.647	1233	1240	1262	rBV	395502	663001	100.00%	19.813%
8	10.049	1465	1470	1486	rBV	390948	566036	85.37%	16.915%
9	11.079	1634	1639	1652	rBV	316202	409252	61.73%	12.230%
10	12.018	1788	1793	1803	rBV	384281	483591	72.94%	14.452%

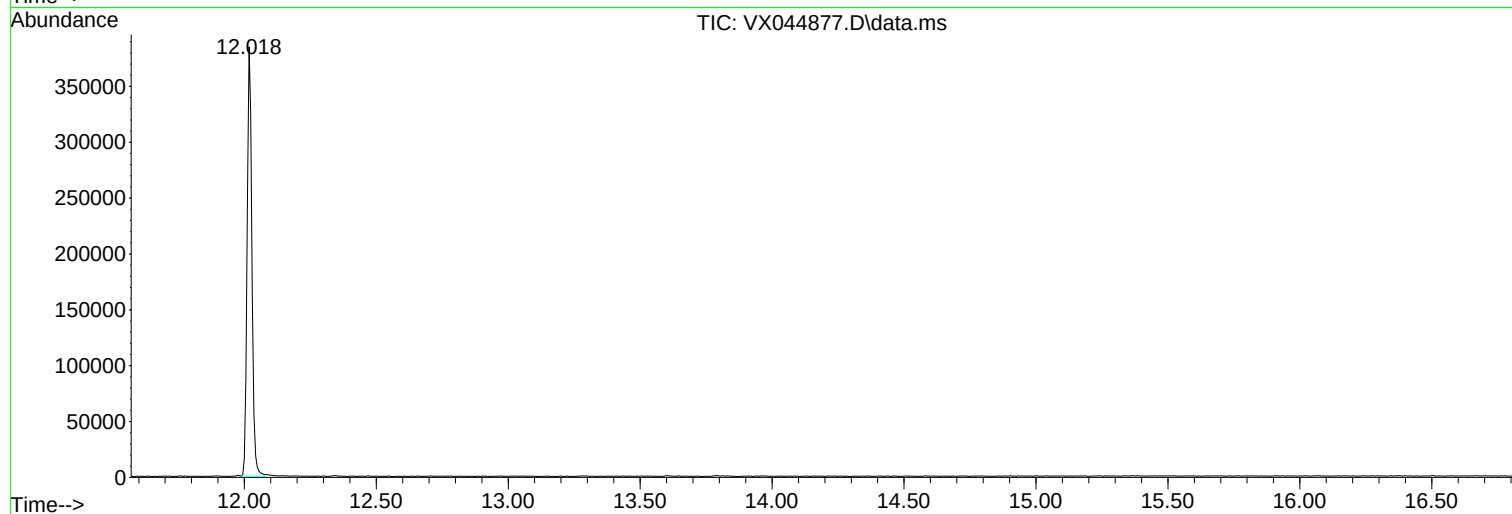
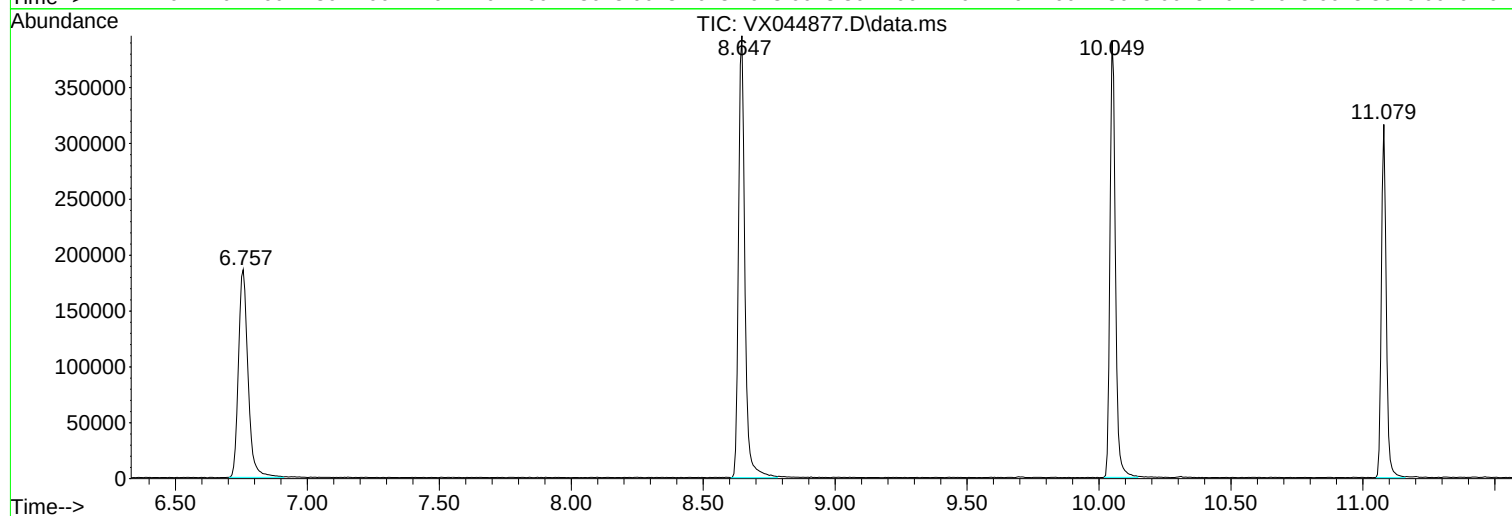
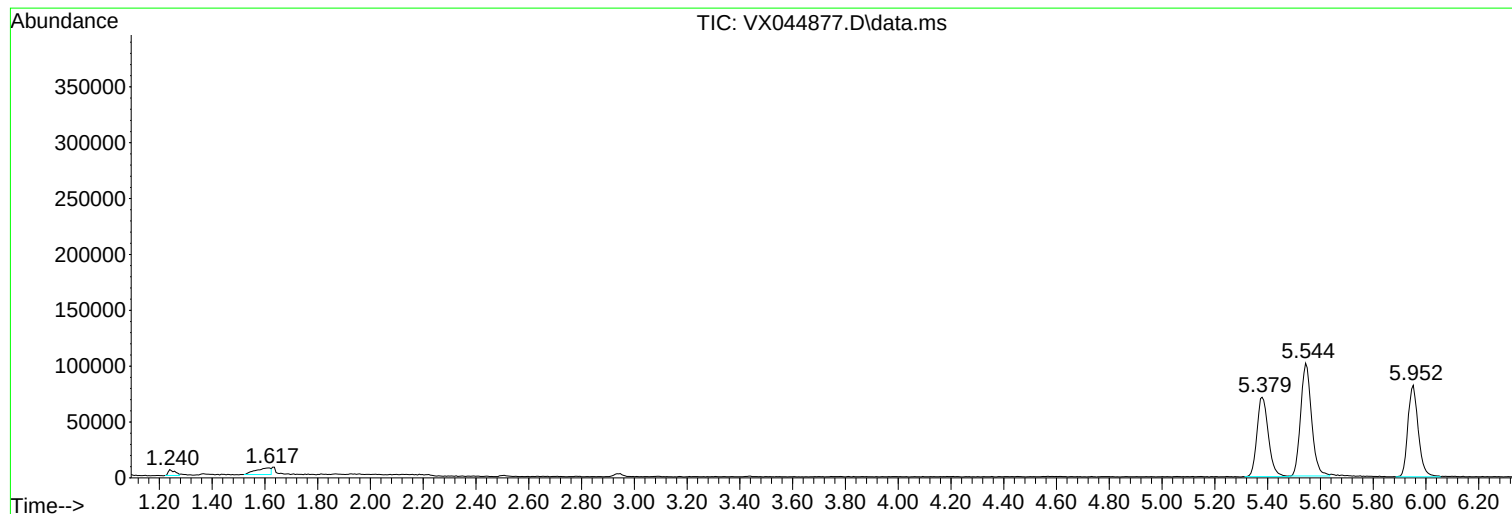
Sum of corrected areas: 3346265

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044877.D
Acq On : 10 Feb 2025 14:06
Operator : JC/MD
Sample : VX0210WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0210WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044877.D
Acq On : 10 Feb 2025 14:06
Operator : JC/MD
Sample : VX0210WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0210WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044877.D
Acq On : 10 Feb 2025 14:06
Operator : JC/MD
Sample : VX0210WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0210WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:		
Project:	CTO WE13			Date Received:		
Client Sample ID:	VX0210WBS01			SDG No.:	Q1250	
Lab Sample ID:	VX0210WBS01			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044878.D	1		02/10/25 14:29	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	19.2		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	18.2		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	19.8		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	22.6		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.4		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.5		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.8		0.26	0.75	1.00	ug/L
67-64-1	Acetone	110		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	19.5		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.6		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	19.3		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.6		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.8		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	110		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.8		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.0		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	19.7		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.6		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	21.2		0.19	0.50	1.00	ug/L
71-43-2	Benzene	20.1		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.4		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.8		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.9		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	20.1		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.75	2.50	5.00	ug/L
108-88-3	Toluene	20.1		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.8		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.3		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.9		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VX0210WBS01	SDG No.:	Q1250
Lab Sample ID:	VX0210WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044878.D	1		02/10/25 14:29	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	19.9		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	20.8		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	20.7		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	20.5		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	42.0		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	20.6		0.14	0.50	1.00	ug/L
100-42-5	Styrene	21.0		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	20.5		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	19.8		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.9		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.6		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.9		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.3		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.8		81 - 118		94%	SPK: 50
1868-53-7	Dibromofluoromethane	46.6		80 - 119		93%	SPK: 50
2037-26-5	Toluene-d8	47.0		89 - 112		94%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.2		85 - 114		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	144000	5.544				
540-36-3	1,4-Difluorobenzene	262000	6.757				
3114-55-4	Chlorobenzene-d5	225000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	103000	12.018				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044878.D
 Acq On : 10 Feb 2025 14:29
 Operator : JC/MD
 Sample : VX0210WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0210WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 06:04:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	143675	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	262165	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	224717	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	103194	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	98341	46.759	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.520%		
35) Dibromofluoromethane	5.379	113	79475	46.626	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.260%		
50) Toluene-d8	8.647	98	302739	46.969	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.940%		
62) 4-Bromofluorobenzene	11.079	95	102526	47.184	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	94.360%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.167	85	39882	19.792	ug/l	98
3) Chloromethane	1.301	50	47136	19.219	ug/l	96
4) Vinyl Chloride	1.374	62	43335	18.239	ug/l	98
5) Bromomethane	1.593	94	14085	19.810	ug/l	96
6) Chloroethane	1.673	64	22655	22.636	ug/l	97
7) Trichlorofluoromethane	1.880	101	58290	19.399	ug/l	98
8) Diethyl Ether	2.130	74	20621	18.923	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.325	101	37275	20.532	ug/l	99
10) Methyl Iodide	2.447	142	47560	20.214	ug/l	99
11) Tert butyl alcohol	2.959	59	42712	109.471	ug/l	99
12) 1,1-Dichloroethene	2.313	96	34810	18.797	ug/l	94
13) Acrolein	2.233	56	40943	101.708	ug/l	98
14) Allyl chloride	2.660	41	65689	19.628	ug/l	99
15) Acrylonitrile	3.063	53	108310	103.970	ug/l	99
16) Acetone	2.380	43	91623	108.368	ug/l	99
17) Carbon Disulfide	2.508	76	99216	19.538	ug/l	98
18) Methyl Acetate	2.697	43	54670	20.491	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	115306	19.570	ug/l	99
20) Methylene Chloride	2.782	84	40045	19.337	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	35736	19.607	ug/l	92
22) Diisopropyl ether	3.758	45	126201	19.932	ug/l	94
23) Vinyl Acetate	3.715	43	521018	100.934	ug/l	99
24) 1,1-Dichloroethane	3.605	63	70308	19.845	ug/l	98
25) 2-Butanone	4.550	43	145874	106.252	ug/l	95
26) 2,2-Dichloropropane	4.465	77	55482	19.747	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	43802	20.007	ug/l	99
28) Bromochloromethane	4.891	49	30940	18.172	ug/l	99
29) Tetrahydrofuran	5.001	42	94469	103.625	ug/l	99
30) Chloroform	5.087	83	67614	19.679	ug/l	97
31) Cyclohexane	5.465	56	64999	19.901	ug/l	92
32) 1,1,1-Trichloroethane	5.379	97	57025	19.567	ug/l	99
36) 1,1-Dichloropropene	5.690	75	46149	18.766	ug/l	97
37) Ethyl Acetate	4.709	43	54369	19.877	ug/l	99
38) Carbon Tetrachloride	5.672	117	47637	19.768	ug/l	100
39) Methylcyclohexane	7.373	83	67384	21.195	ug/l	99
40) Benzene	6.032	78	154127	20.072	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044878.D
 Acq On : 10 Feb 2025 14:29
 Operator : JC/MD
 Sample : VX0210WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0210WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 06:04:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.910	41	30898	21.104	ug/l	98
42) 1,2-Dichloroethane	6.080	62	49858	20.372	ug/l	98
43) Isopropyl Acetate	6.336	43	87957	19.913	ug/l	100
44) Trichloroethene	7.123	130	34718	19.780	ug/l	95
45) 1,2-Dichloropropane	7.428	63	37975	19.878	ug/l	98
46) Dibromomethane	7.574	93	25522	19.264	ug/l	96
47) Bromodichloromethane	7.818	83	51588	20.110	ug/l	99
48) Methyl methacrylate	7.690	41	42266	20.294	ug/l	99
49) 1,4-Dioxane	7.659	88	19987	447.298	ug/l	99
51) 4-Methyl-2-Pentanone	8.568	43	290064	108.019	ug/l	99
52) Toluene	8.714	92	92132	20.146	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	51313	19.766	ug/l	99
54) cis-1,3-Dichloropropene	8.366	75	58644	20.261	ug/l	99
55) 1,1,2-Trichloroethane	9.147	97	34995	19.906	ug/l	96
56) Ethyl methacrylate	9.116	69	57965	20.415	ug/l	99
57) 1,3-Dichloropropane	9.305	76	61524	20.002	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	128363	92.073	ug/l	99
59) 2-Hexanone	9.427	43	214872	111.057	ug/l	99
60) Dibromochloromethane	9.519	129	37432	19.909	ug/l	98
61) 1,2-Dibromoethane	9.604	107	36482	20.475	ug/l	99
64) Tetrachloroethene	9.269	164	29427	20.765	ug/l	97
65) Chlorobenzene	10.073	112	99689	20.654	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	31269	20.128	ug/l	99
67) Ethyl Benzene	10.189	91	174238	20.457	ug/l	99
68) m/p-Xylenes	10.299	106	131822	41.956	ug/l	100
69) o-Xylene	10.640	106	65016	20.623	ug/l	99
70) Styrene	10.653	104	106815	21.030	ug/l	99
71) Bromoform	10.799	173	23731	20.468	ug/l #	100
73) Isopropylbenzene	10.957	105	164365	19.781	ug/l	100
74) N-amyl acetate	10.842	43	77027	20.486	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	56806	19.895	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	46830m	20.468	ug/l	
77) Bromobenzene	11.195	156	37952	20.147	ug/l	97
78) n-propylbenzene	11.299	91	194513	20.282	ug/l	100
79) 2-Chlorotoluene	11.360	91	116272	19.726	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	138168	20.491	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	16892	18.992	ug/l	95
82) 4-Chlorotoluene	11.451	91	128990	19.780	ug/l	99
83) tert-Butylbenzene	11.713	119	135479	19.861	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	138666	20.836	ug/l	100
85) sec-Butylbenzene	11.890	105	173020	20.484	ug/l	99
86) p-Isopropyltoluene	12.006	119	142146	20.926	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	68041	19.641	ug/l	99
88) 1,4-Dichlorobenzene	12.037	146	69642	19.883	ug/l	100
89) n-Butylbenzene	12.329	91	126612	21.069	ug/l	100
90) Hexachloroethane	12.536	117	24543	19.296	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	69056	20.283	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	10120	19.420	ug/l	97
93) 1,2,4-Trichlorobenzene	13.585	180	40207	19.516	ug/l	100
94) Hexachlorobutadiene	13.719	225	16410	20.065	ug/l	99
95) Naphthalene	13.774	128	148642	19.959	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	40645	19.579	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044878.D
Acq On : 10 Feb 2025 14:29
Operator : JC/MD
Sample : VX0210WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0210WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 06:04:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

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

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

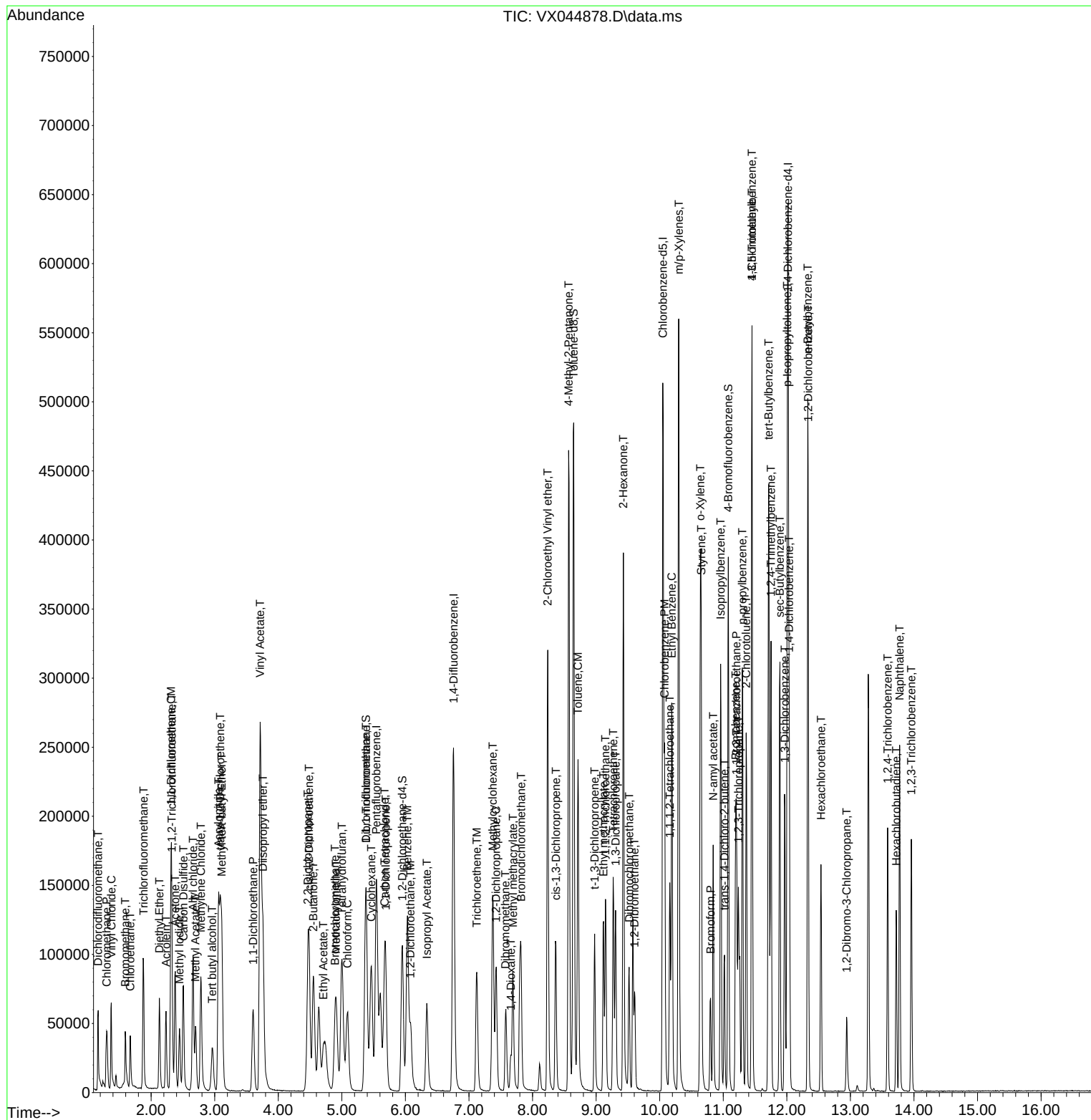
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Data File : VX044878.D  
Acq On    : 10 Feb 2025  14:29  
Operator  : JC/MD  
Sample    : VX0210WBS01  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 13   Sample Multiplier: 1
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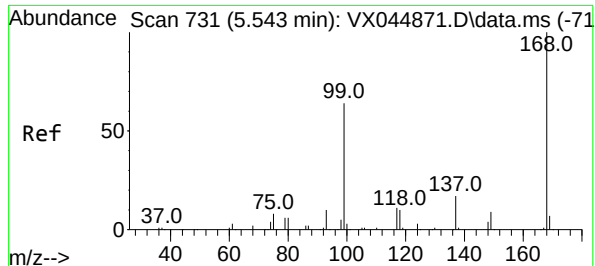
Instrument :
MSVOA_X
ClientSampleId :
VX0210WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

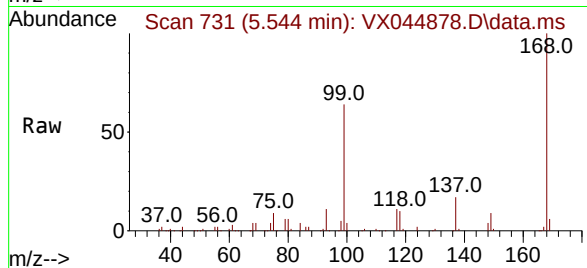
Quant Time: Feb 11 06:04:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 731
Delta R.T. 0.001 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

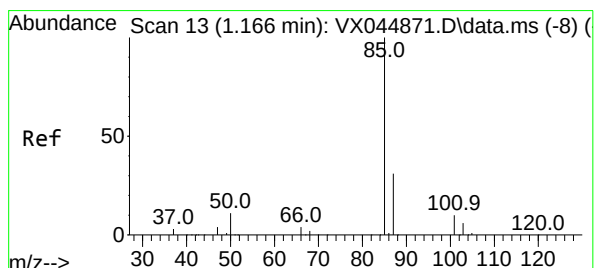
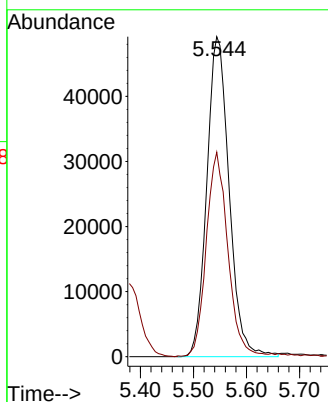
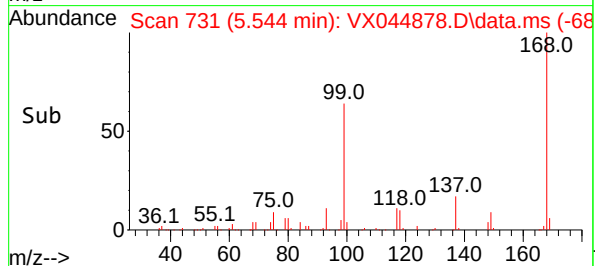
Instrument :
MSVOA_X
ClientSampleId :
VX0210WBS01



Tgt Ion:168 Resp: 143679
Ion Ratio Lower Upper
168 100
99 63.7 51.2 76.8

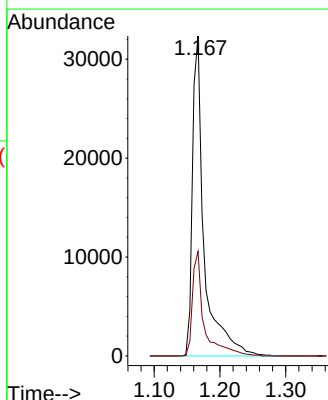
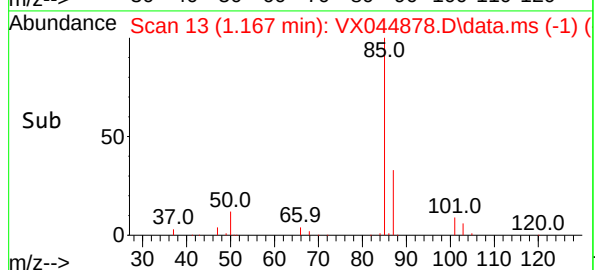
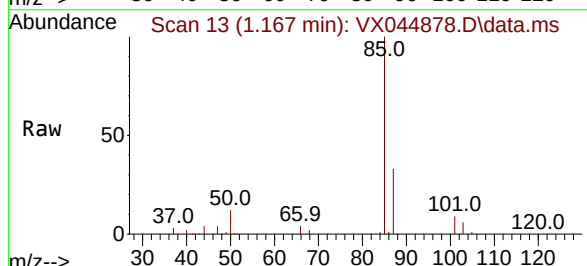
Manual Integrations
APPROVED

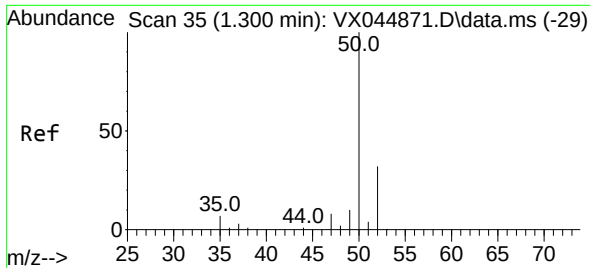
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#2
Dichlorodifluoromethane
Concen: 19.792 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

Tgt Ion: 85 Resp: 39882
Ion Ratio Lower Upper
85 100
87 32.7 15.8 47.3





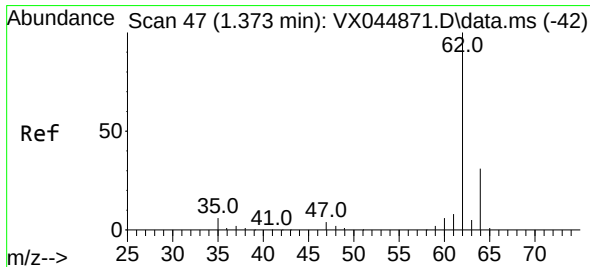
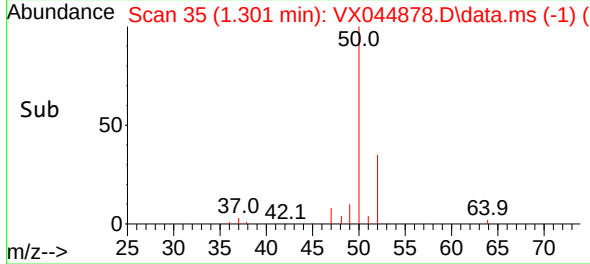
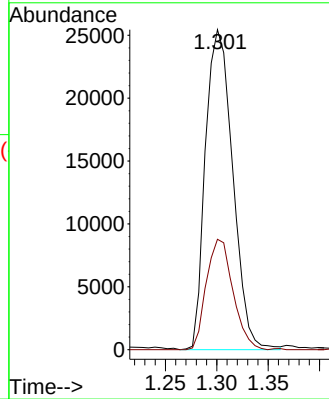
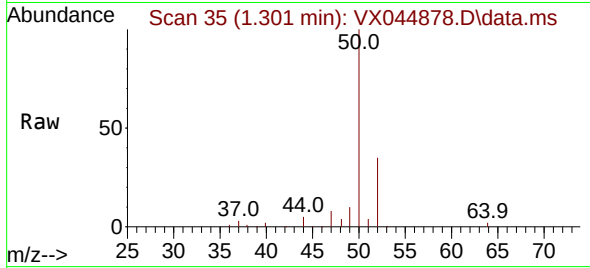
#3
Chloromethane
Concen: 19.219 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
VX0210WBS01

Tgt Ion: 50 Resp: 47130
Ion Ratio Lower Upper
50 100
52 34.5 25.9 38.9

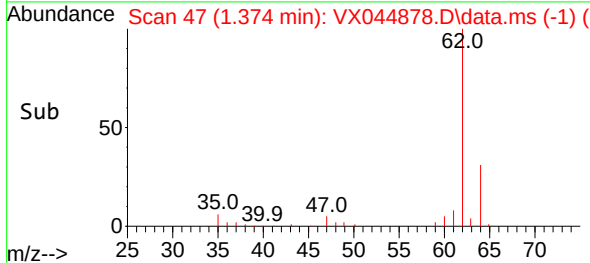
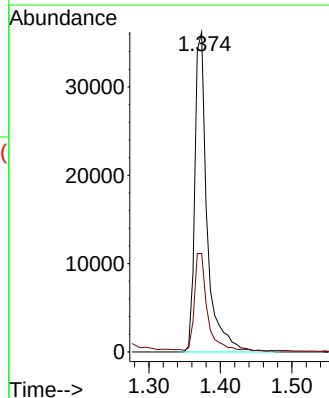
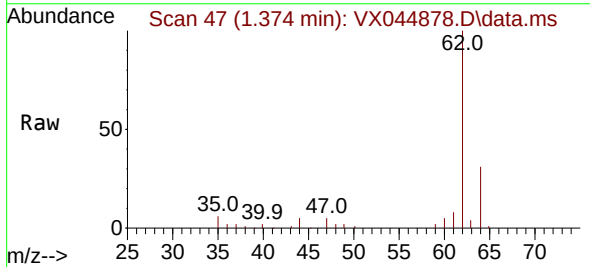
Manual Integrations
APPROVED

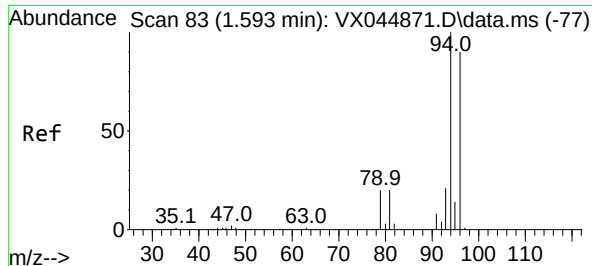
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#4
Vinyl Chloride
Concen: 18.239 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

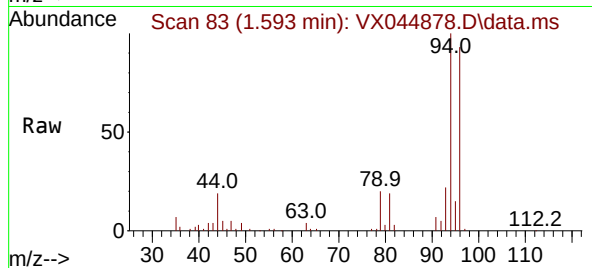
Tgt Ion: 62 Resp: 43335
Ion Ratio Lower Upper
62 100
64 30.4 25.4 38.0





#5
Bromomethane
Concen: 19.810 ug/l
RT: 1.593 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

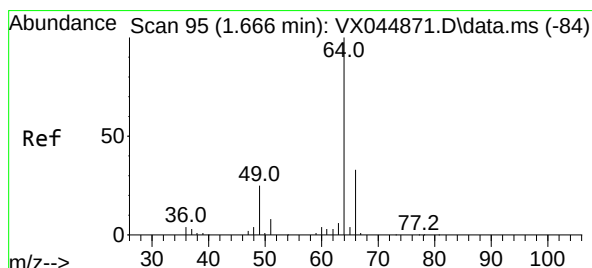
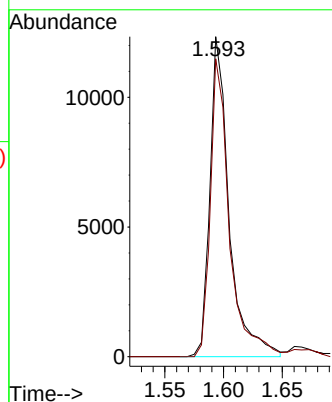
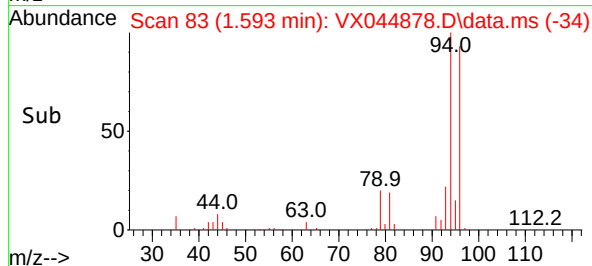
Instrument :
MSVOA_X
ClientSampleId :
VX0210WBS01



Tgt Ion: 94 Resp: 14085
Ion Ratio Lower Upper
94 100
96 93.1 71.6 107.4

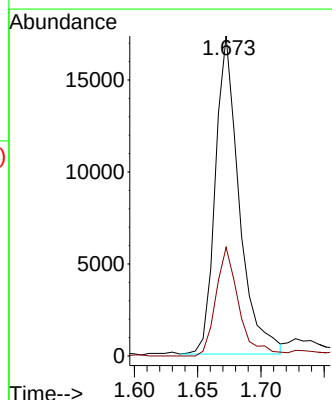
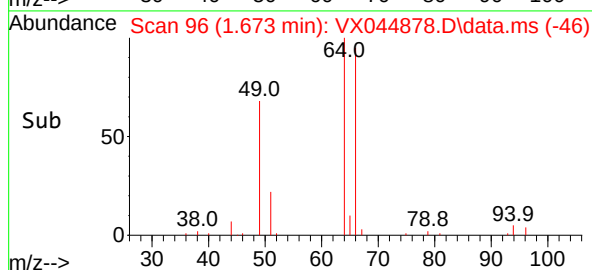
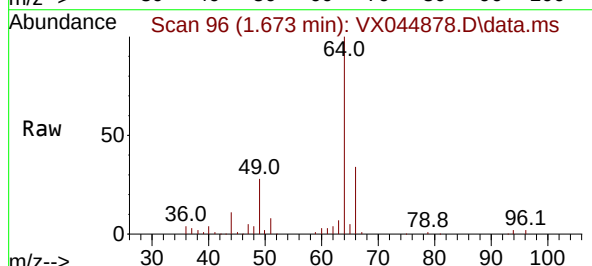
Manual Integrations
APPROVED

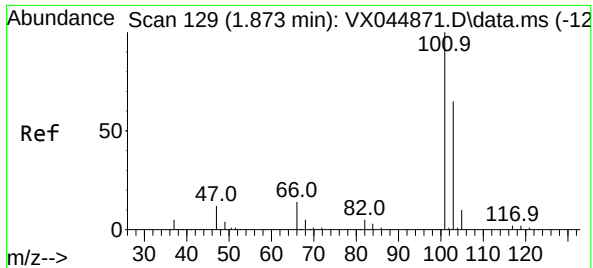
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#6
Chloroethane
Concen: 22.636 ug/l
RT: 1.673 min Scan# 96
Delta R.T. 0.007 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

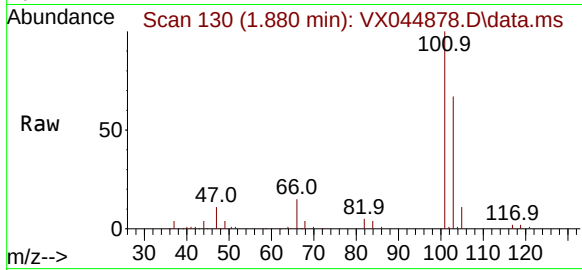
Tgt Ion: 64 Resp: 22655
Ion Ratio Lower Upper
64 100
66 34.2 25.9 38.9





#7
Trichlorofluoromethane
Concen: 19.399 ug/l
RT: 1.880 min Scan# 11
Delta R.T. 0.007 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

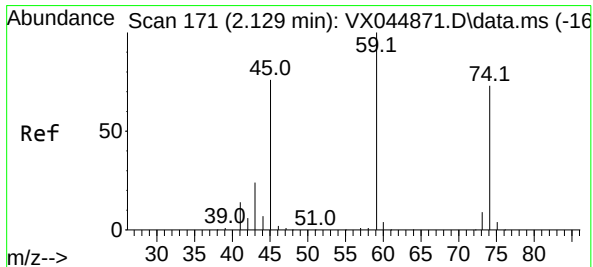
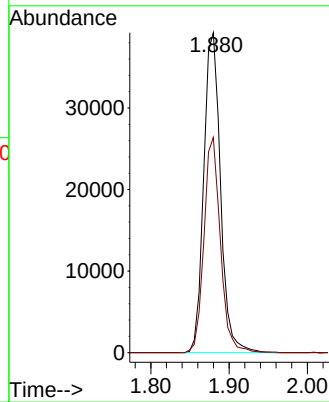
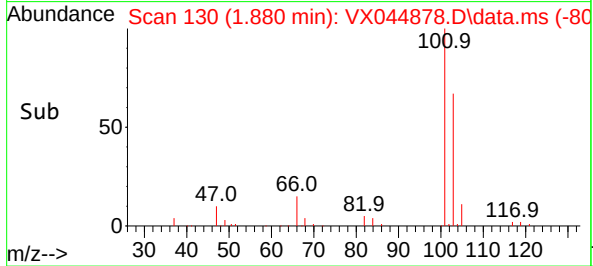
Instrument :
MSVOA_X
ClientSampleId :
VX0210WBS01



Tgt Ion:101 Resp: 58290
Ion Ratio Lower Upper
101 100
103 67.3 52.4 78.6

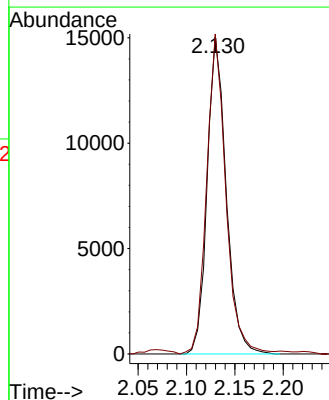
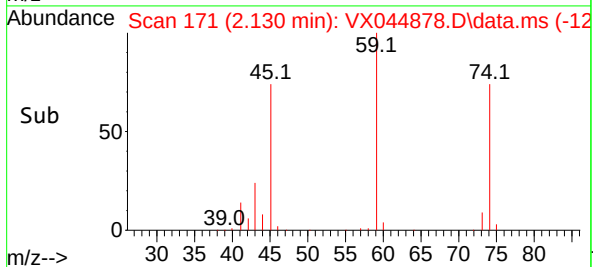
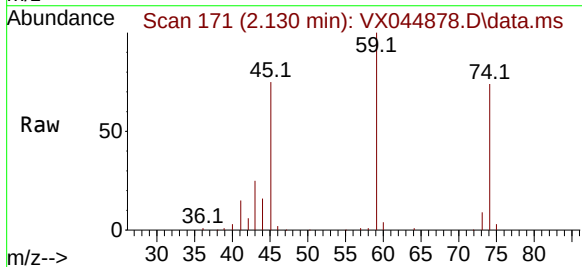
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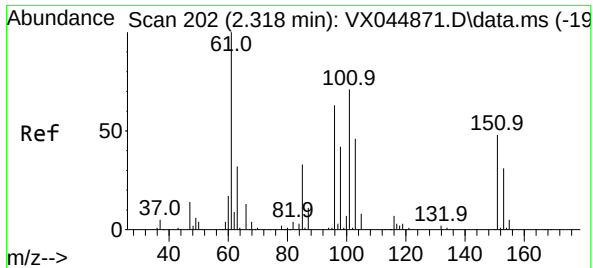
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#8
Diethyl Ether
Concen: 18.923 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.001 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

Tgt Ion: 74 Resp: 20621
Ion Ratio Lower Upper
74 100
45 101.6 51.1 153.4





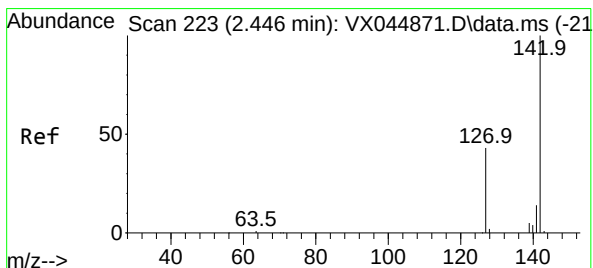
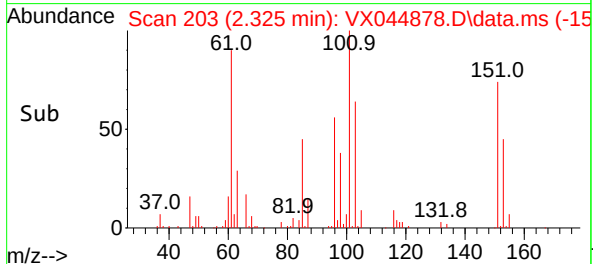
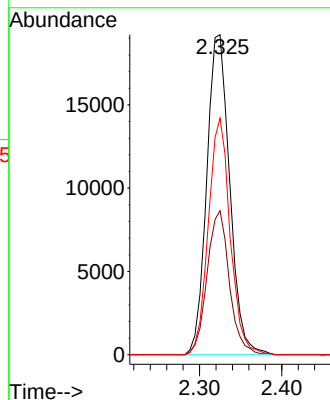
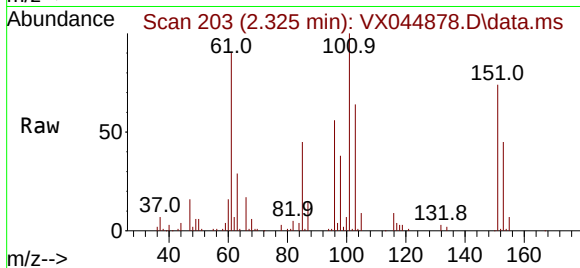
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.532 ug/l
RT: 2.325 min Scan# 202
Delta R.T. 0.007 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
VX0210WBS01

Tgt Ion:101 Resp: 37275
Ion Ratio Lower Upper
101 100
85 43.7 35.7 53.5
151 70.4 56.0 84.0

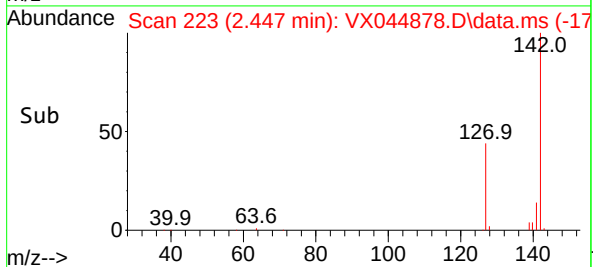
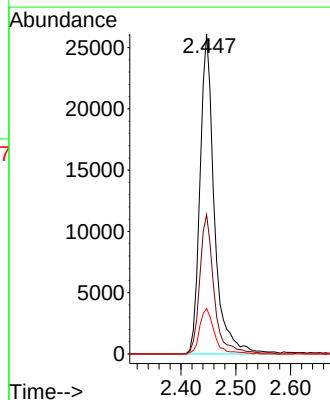
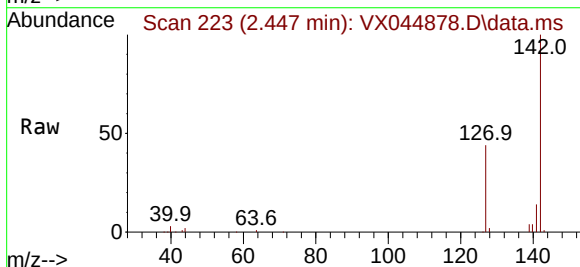
Manual Integrations
APPROVED

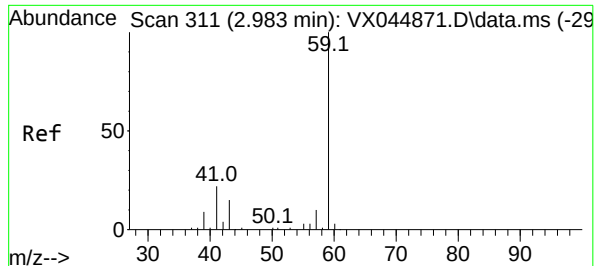
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#10
Methyl Iodide
Concen: 20.214 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

Tgt Ion:142 Resp: 47560
Ion Ratio Lower Upper
142 100
127 43.3 34.3 51.5
141 14.6 11.4 17.2





#11

Tert butyl alcohol

Concen: 109.471 ug/l

RT: 2.959 min Scan# 307

Delta R.T. -0.024 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01

Tgt Ion: 59 Resp: 4271

Ion Ratio Lower Upper

59 100

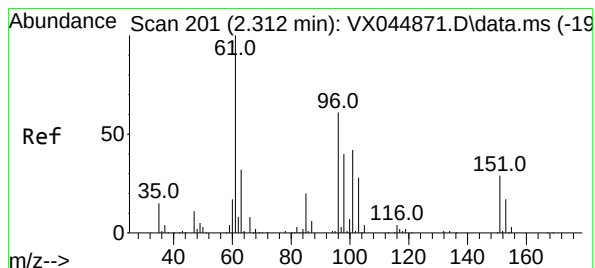
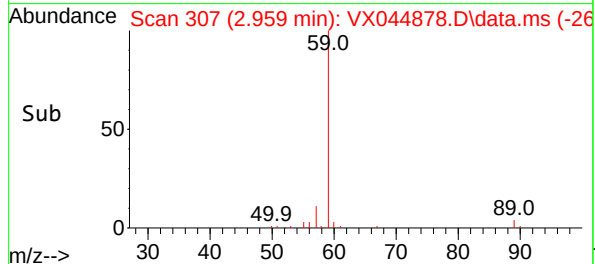
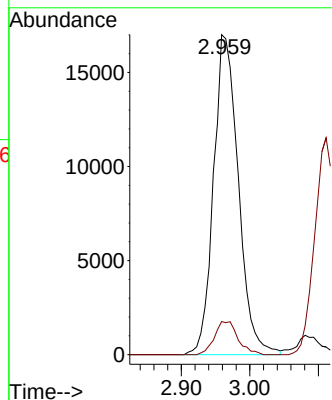
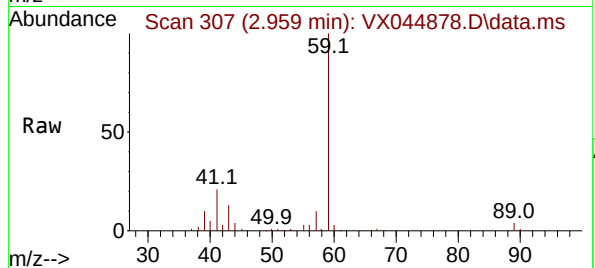
57 9.9 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#12

1,1-Dichloroethene

Concen: 18.797 ug/l

RT: 2.313 min Scan# 201

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

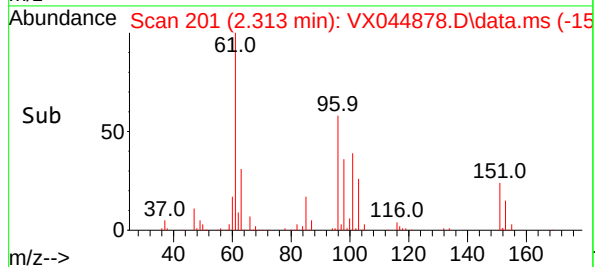
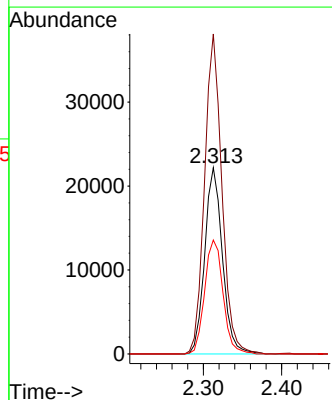
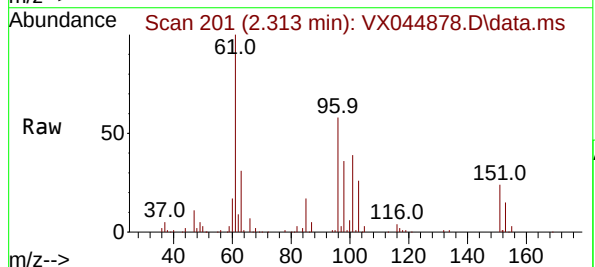
Tgt Ion: 96 Resp: 34810

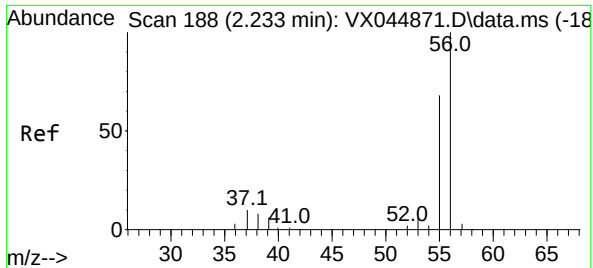
Ion Ratio Lower Upper

96 100

61 171.8 130.2 195.4

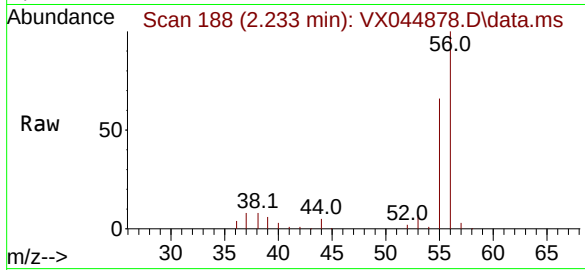
98 61.1 52.2 78.4





#13
Acrolein
Concen: 101.708 ug/l
RT: 2.233 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

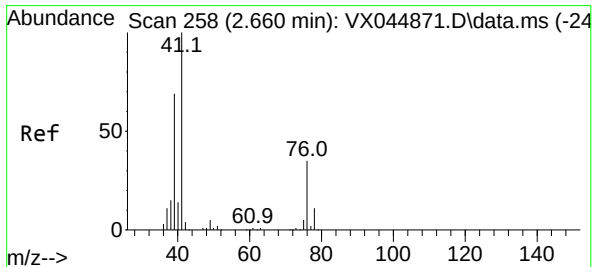
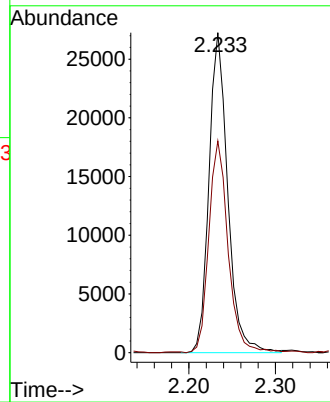
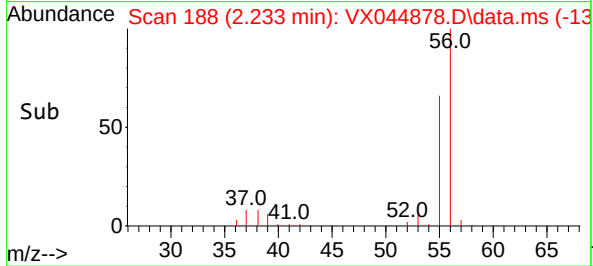
Instrument :
MSVOA_X
ClientSampleId :
VX0210WBS01



Tgt Ion: 56 Resp: 4094
Ion Ratio Lower Upper
56 100
55 68.1 55.7 83.5

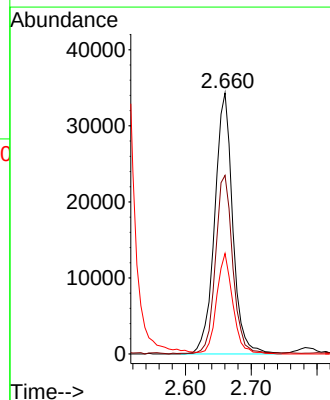
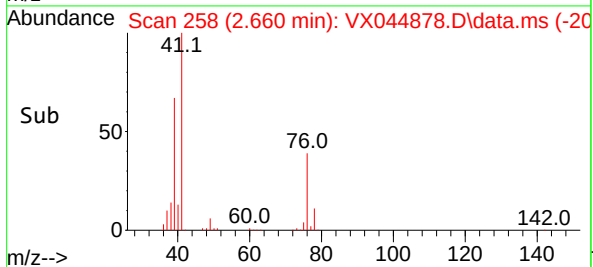
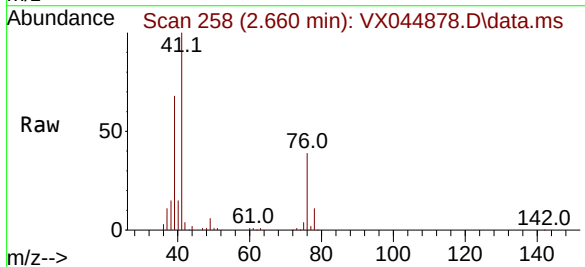
Manual Integrations
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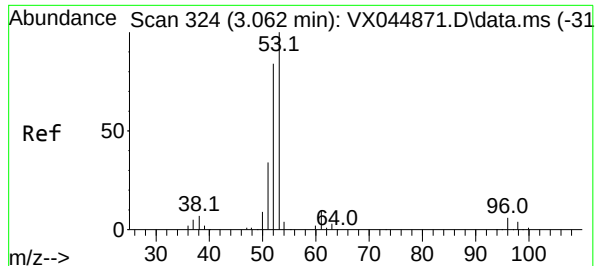
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#14
Allyl chloride
Concen: 19.628 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

Tgt Ion: 41 Resp: 65689
Ion Ratio Lower Upper
41 100
39 64.6 51.4 77.2
76 34.4 27.0 40.4





#15

Acrylonitrile

Concen: 103.970 ug/l

RT: 3.063 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01

Tgt Ion: 53 Resp: 108310

Ion Ratio Lower Upper

53 100

52 81.8 65.0 97.6

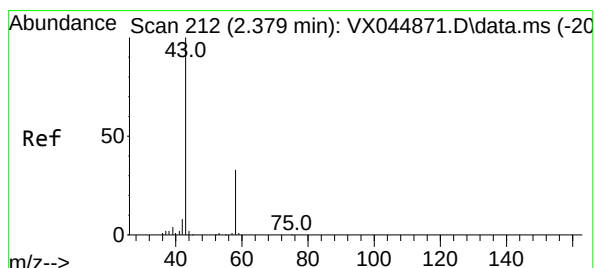
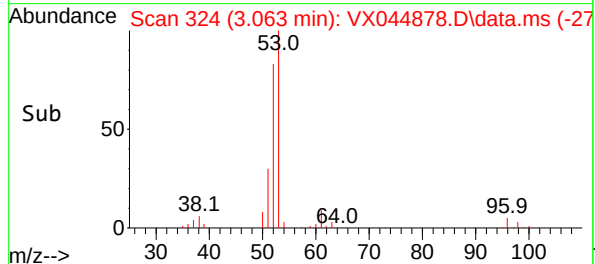
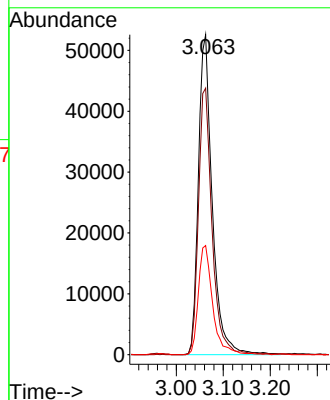
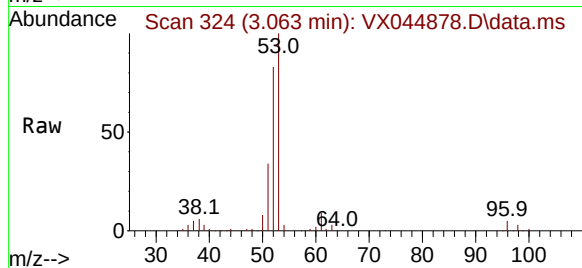
51 35.3 28.0 42.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#16

Acetone

Concen: 108.368 ug/l

RT: 2.380 min Scan# 212

Delta R.T. 0.000 min

Lab File: VX044878.D

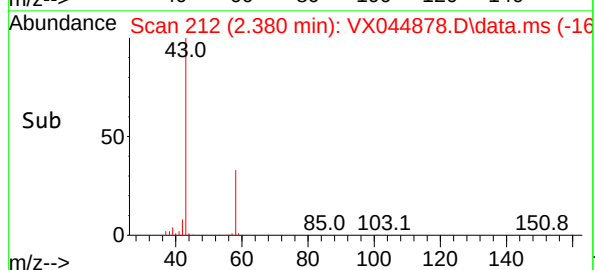
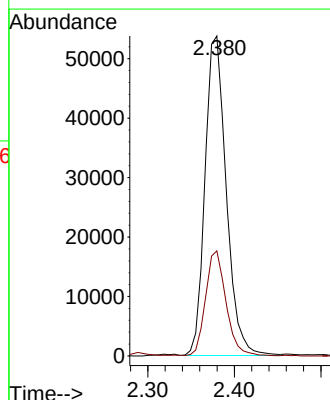
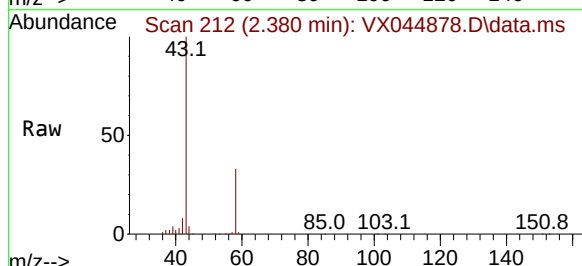
Acq: 10 Feb 2025 14:29

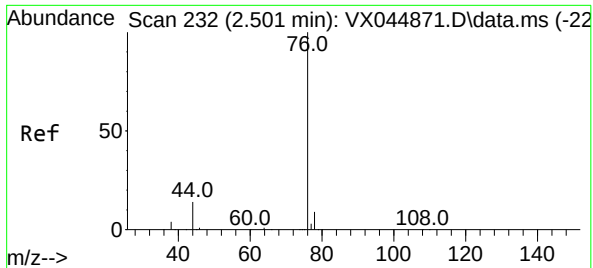
Tgt Ion: 43 Resp: 91623

Ion Ratio Lower Upper

43 100

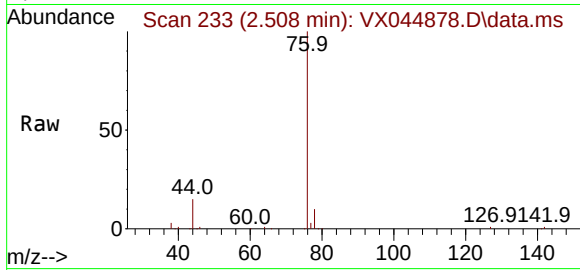
58 32.8 26.5 39.7





#17
Carbon Disulfide
Concen: 19.538 ug/l
RT: 2.508 min Scan# 21
Delta R.T. 0.007 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

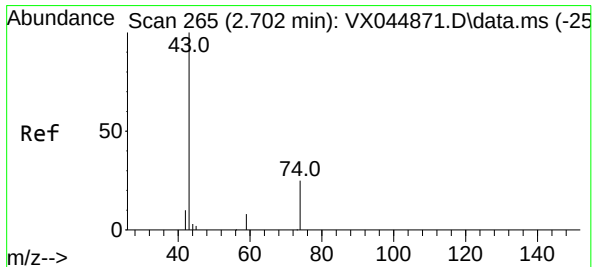
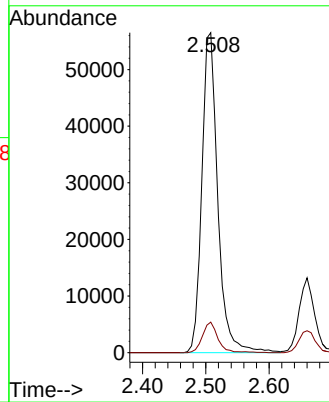
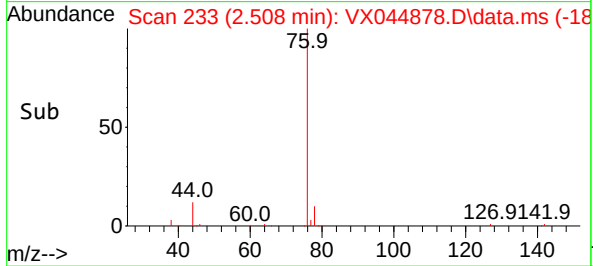
Instrument :
MSVOA_X
ClientSampleId :
VX0210WBS01



Tgt Ion: 76 Resp: 99210
Ion Ratio Lower Upper
76 100
78 9.6 7.0 10.4

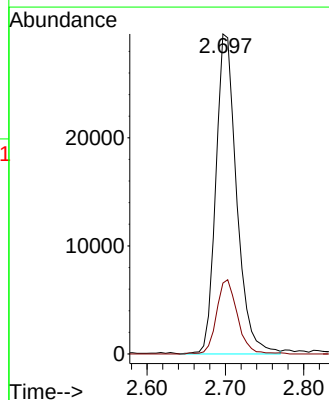
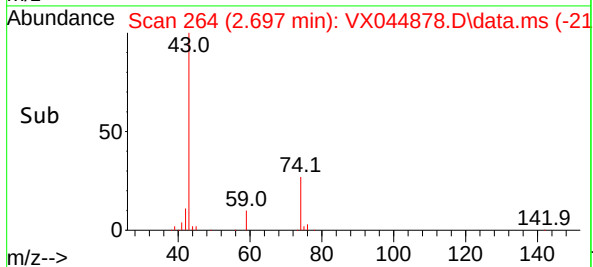
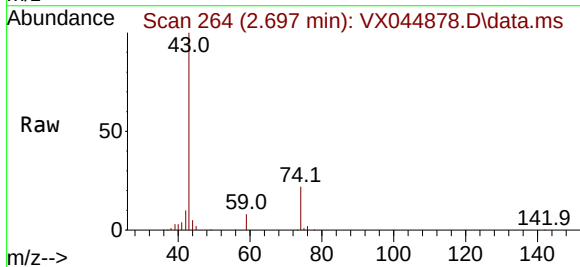
Manual Integrations
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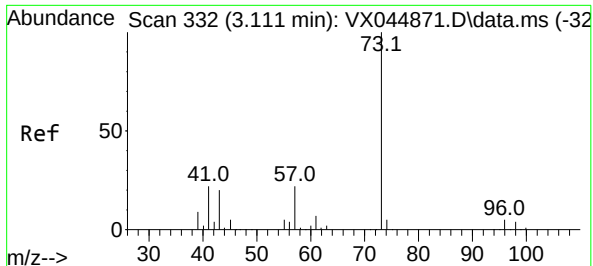
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#18
Methyl Acetate
Concen: 20.491 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

Tgt Ion: 43 Resp: 54670
Ion Ratio Lower Upper
43 100
74 23.3 18.9 28.3





#19

Methyl tert-butyl Ether

Concen: 19.570 ug/l

RT: 3.111 min Scan# 311

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01

Tgt Ion: 73 Resp: 115300

Ion Ratio Lower Upper

73 100

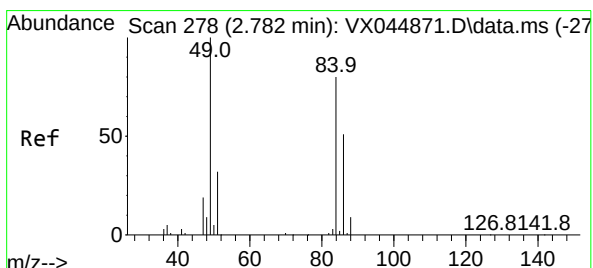
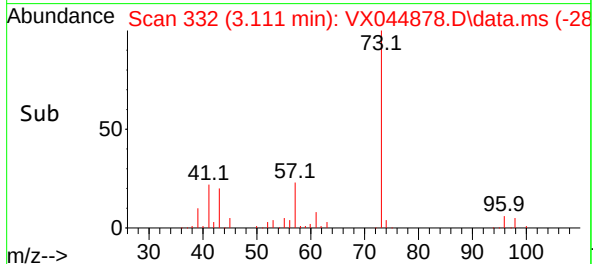
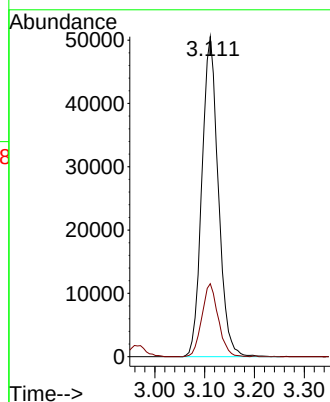
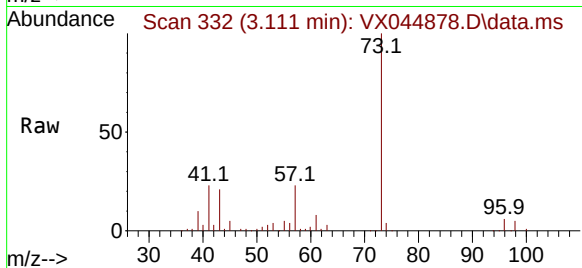
57 22.8 17.9 26.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#20

Methylene Chloride

Concen: 19.337 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Tgt Ion: 84 Resp: 40045

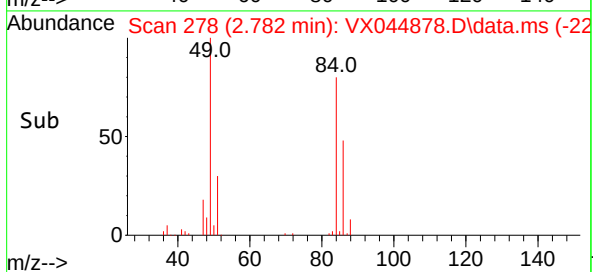
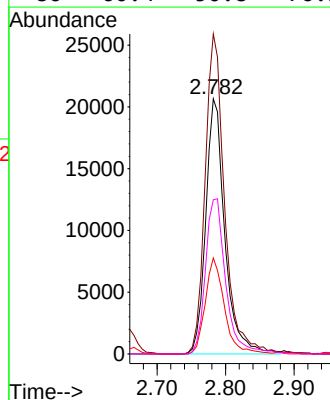
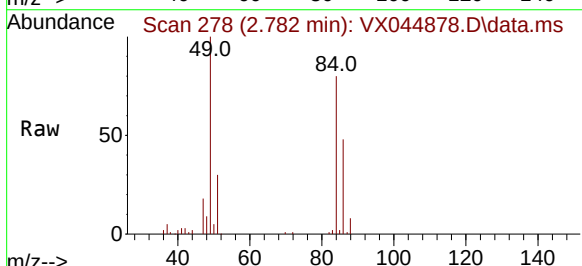
Ion Ratio Lower Upper

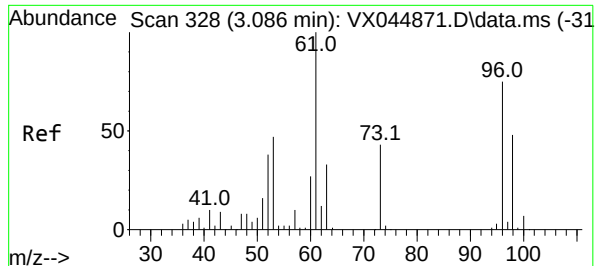
84 100

49 125.4 100.1 150.1

51 37.6 31.7 47.5

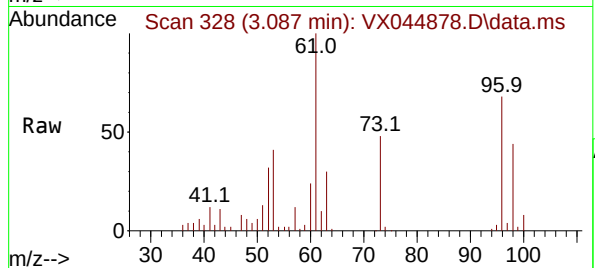
86 60.4 50.8 76.2





#21
trans-1,2-Dichloroethene
Concen: 19.607 ug/l
RT: 3.087 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

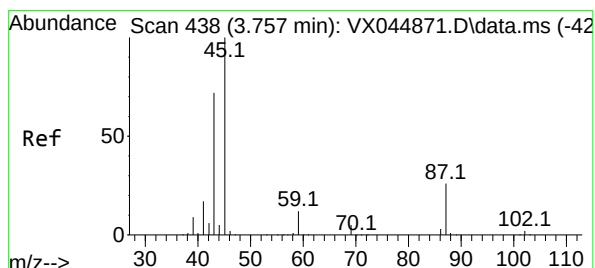
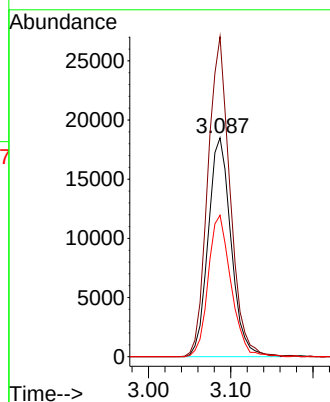
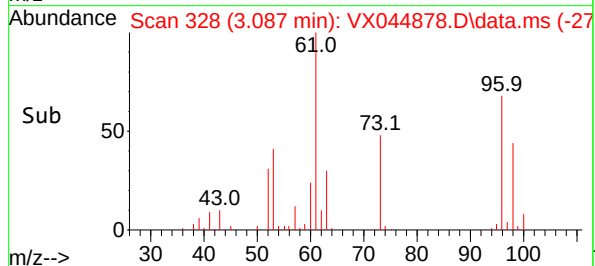
Instrument :
MSVOA_X
ClientSampleId :
VX0210WBS01



Tgt Ion: 96 Resp: 35730
Ion Ratio Lower Upper
96 100
61 146.2 106.0 159.0
98 64.6 50.6 76.0

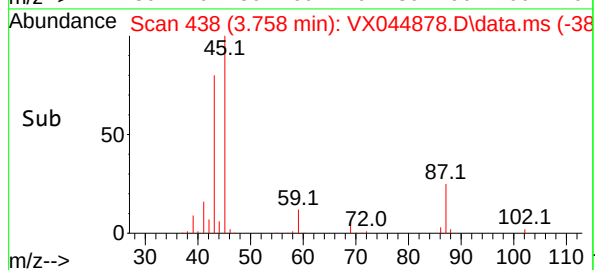
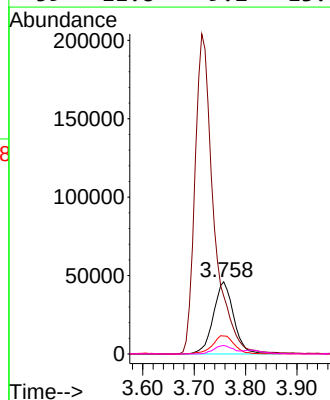
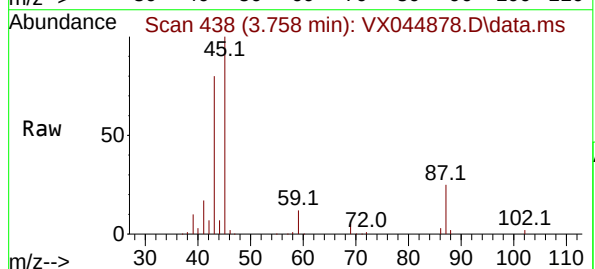
Manual Integrations
APPROVED

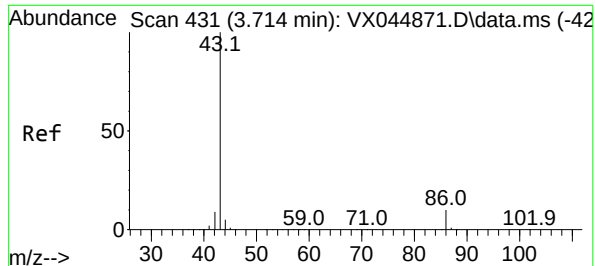
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#22
Diisopropyl ether
Concen: 19.932 ug/l
RT: 3.758 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

Tgt Ion: 45 Resp: 126201
Ion Ratio Lower Upper
45 100
43 79.8 58.0 87.0
87 24.9 20.7 31.1
59 11.8 9.2 13.8





#23

Vinyl Acetate

Concen: 100.934 ug/l

RT: 3.715 min Scan# 413

Delta R.T. 0.000 min

Lab File: VX044878.D

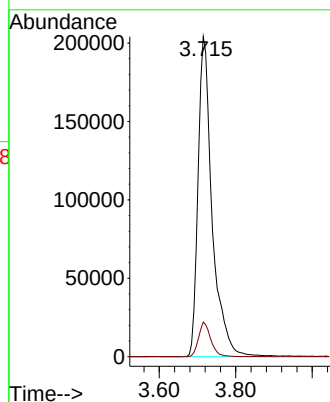
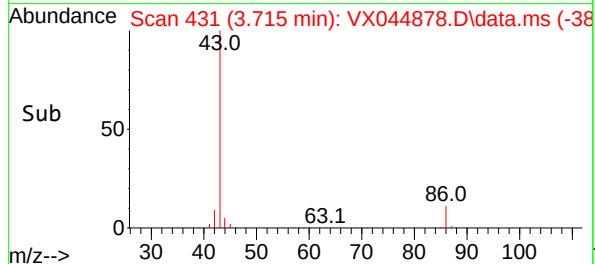
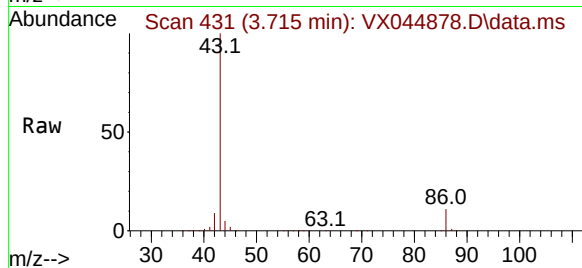
Acq: 10 Feb 2025 14:29

Tgt Ion: 43 Resp: 521018

Ion Ratio Lower Upper

43 100

86 10.8 8.3 12.5



Instrument :

MSVOA_X

ClientSampleId :

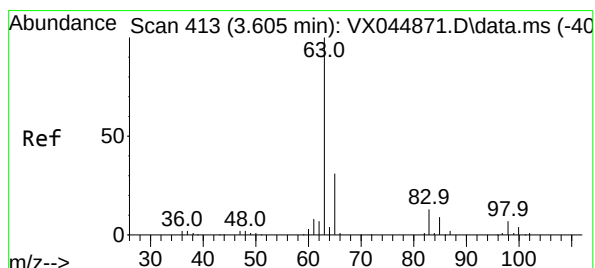
VX0210WBS01

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#24

1,1-Dichloroethane

Concen: 19.845 ug/l

RT: 3.605 min Scan# 413

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

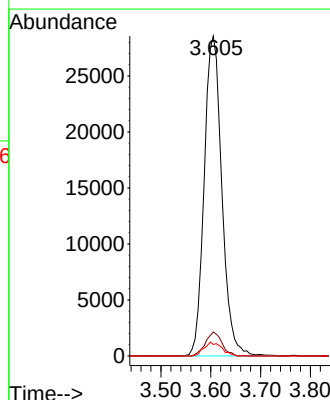
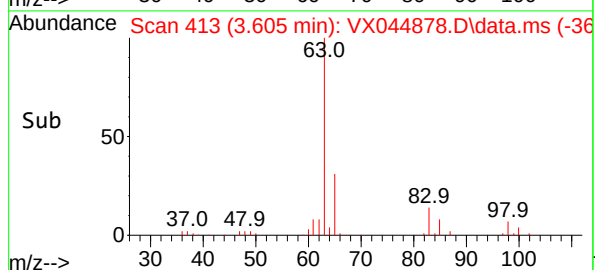
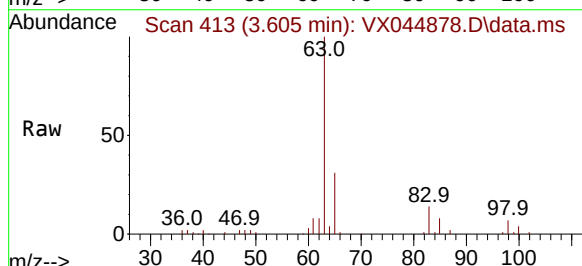
Tgt Ion: 63 Resp: 70308

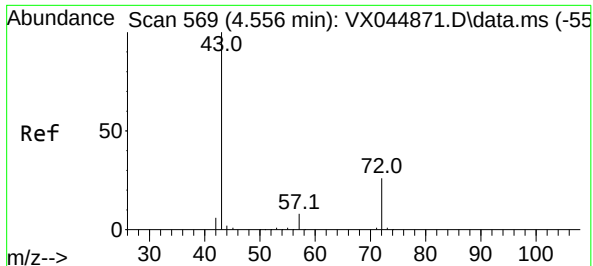
Ion Ratio Lower Upper

63 100

98 7.5 3.3 9.9

100 3.6 2.1 6.5





#25

2-Butanone

Concen: 106.252 ug/l

RT: 4.550 min Scan# 50

Delta R.T. -0.006 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01

Tgt Ion: 43 Resp: 145874

Ion Ratio Lower Upper

43 100

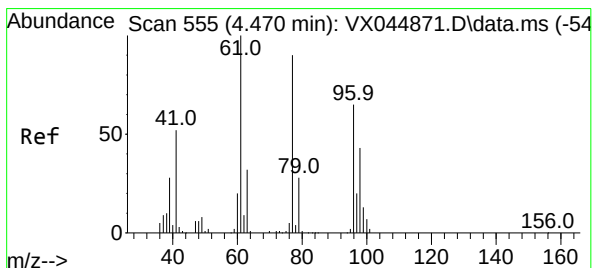
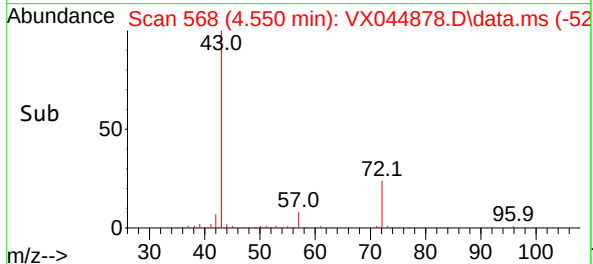
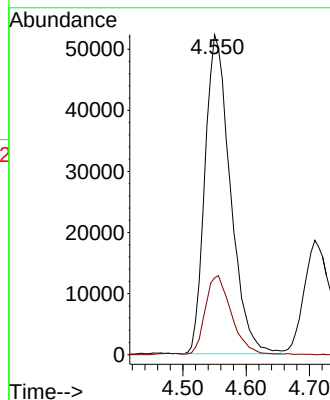
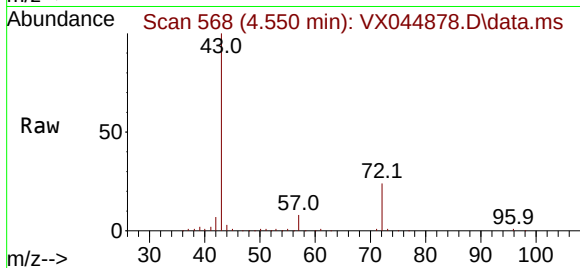
72 23.8 21.2 31.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#26

2,2-Dichloropropane

Concen: 19.747 ug/l

RT: 4.465 min Scan# 554

Delta R.T. -0.006 min

Lab File: VX044878.D

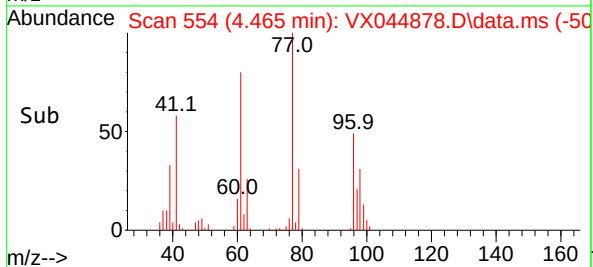
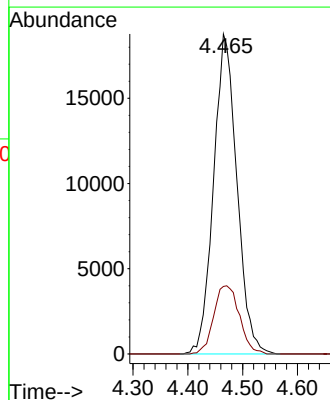
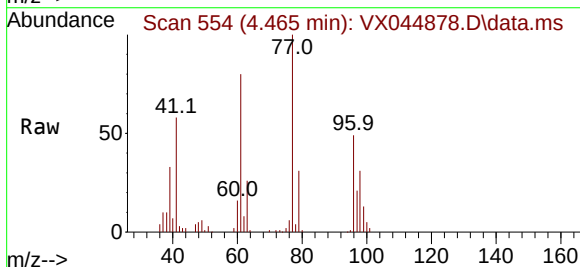
Acq: 10 Feb 2025 14:29

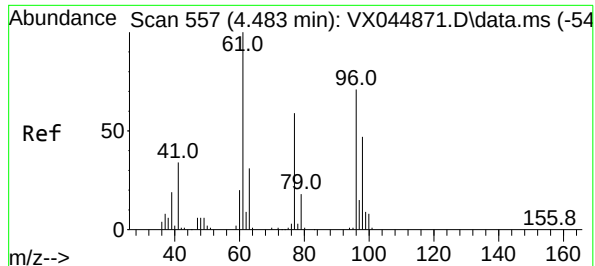
Tgt Ion: 77 Resp: 55482

Ion Ratio Lower Upper

77 100

97 23.4 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 20.007 ug/l

RT: 4.483 min Scan# 511

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

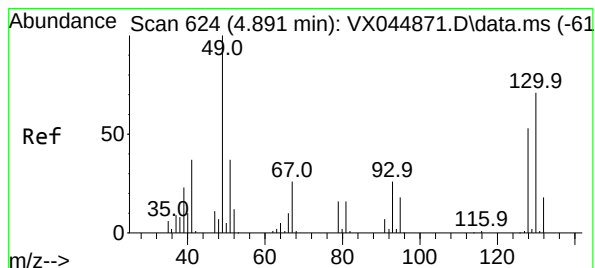
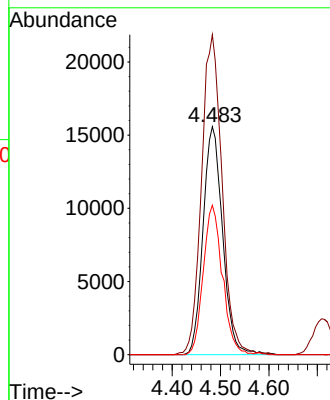
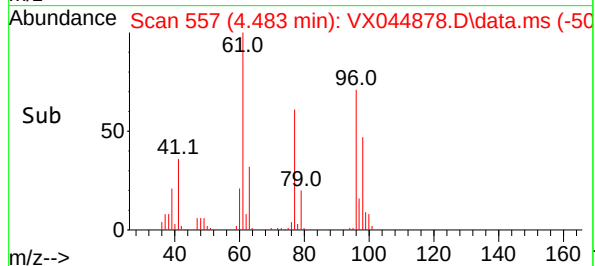
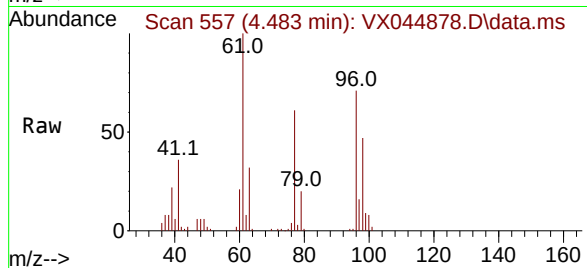
VX0210WBS01

Tgt Ion:	96	Resp:	4380
Ion	Ratio	Lower	Upper
96	100		
61	147.3	0.0	294.0
98	64.1	0.0	131.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#28

Bromochloromethane

Concen: 18.172 ug/l

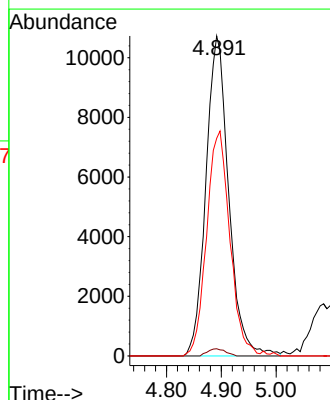
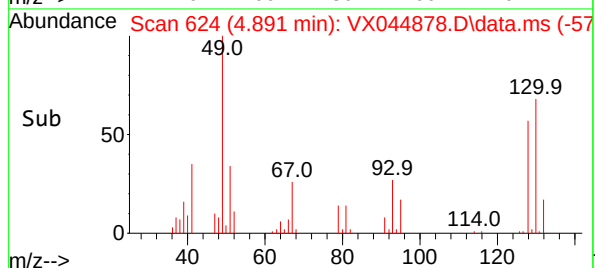
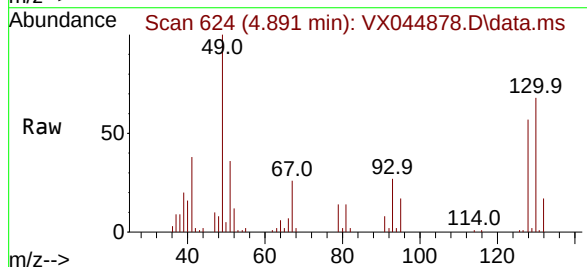
RT: 4.891 min Scan# 624

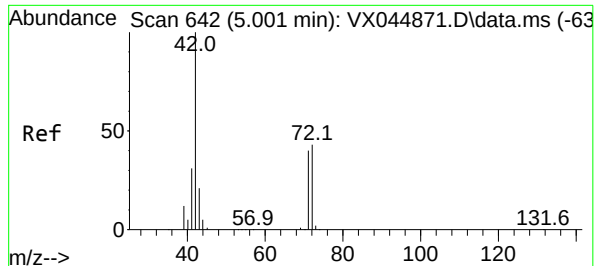
Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Tgt Ion:	49	Resp:	30940
Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.6
130	71.7	56.7	85.1





#29

Tetrahydrofuran

Concen: 103.625 ug/l

RT: 5.001 min Scan# 642

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01

Tgt Ion: 42 Resp: 94469

Ion Ratio Lower Upper

42 100

72 44.6 35.0 52.4

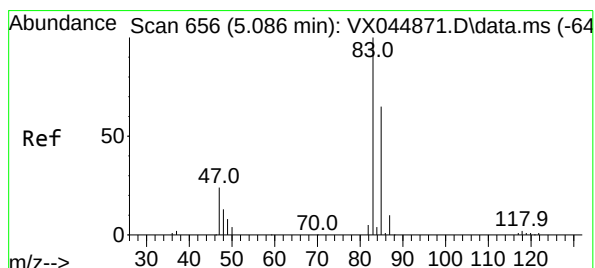
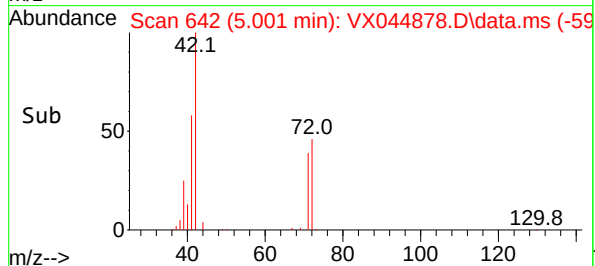
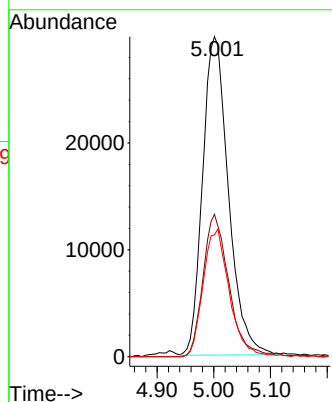
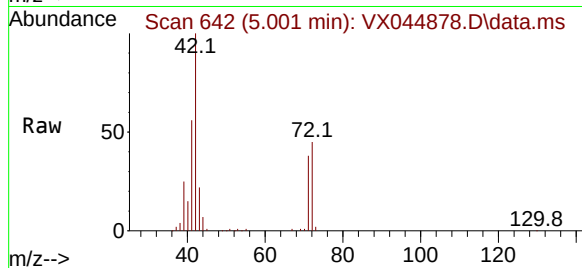
71 40.5 32.6 48.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#30

Chloroform

Concen: 19.679 ug/l

RT: 5.087 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX044878.D

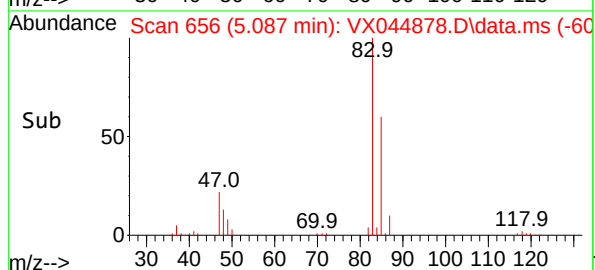
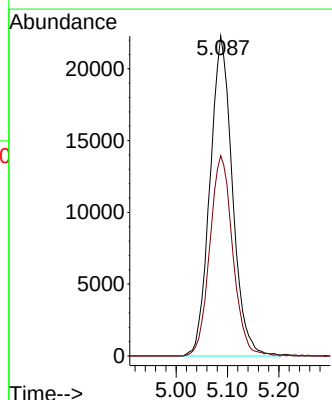
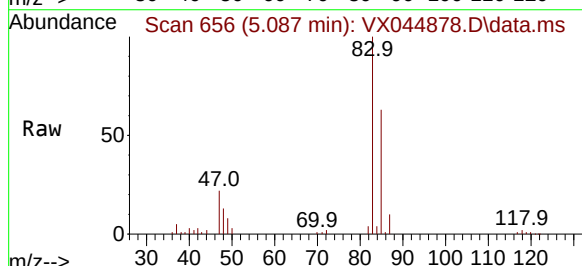
Acq: 10 Feb 2025 14:29

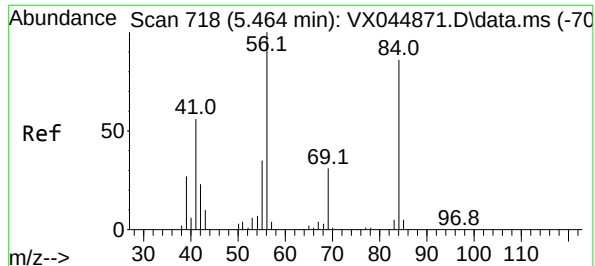
Tgt Ion: 83 Resp: 67614

Ion Ratio Lower Upper

83 100

85 62.6 52.1 78.1





#31

Cyclohexane

Concen: 19.901 ug/l

RT: 5.465 min Scan# 718

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01

Tgt Ion: 56 Resp: 64999

Ion Ratio Lower Upper

56 100

69 28.4 24.4 36.6

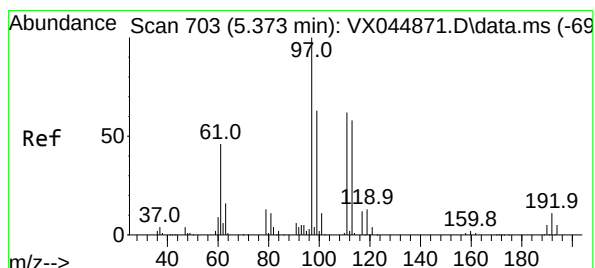
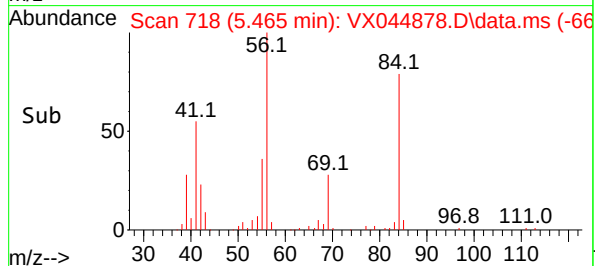
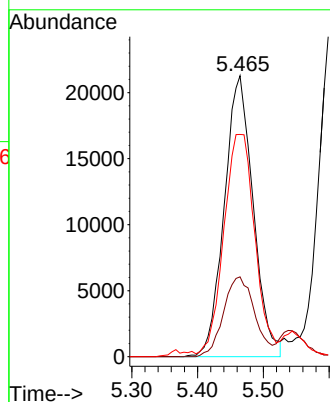
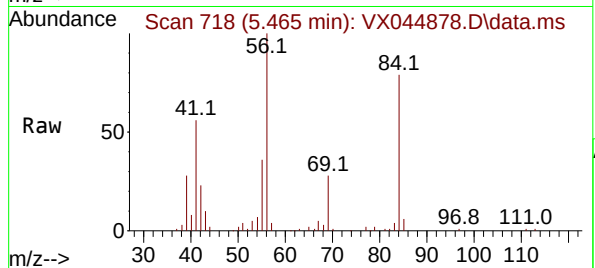
84 77.9 69.0 103.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#32

1,1,1-Trichloroethane

Concen: 19.567 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.007 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

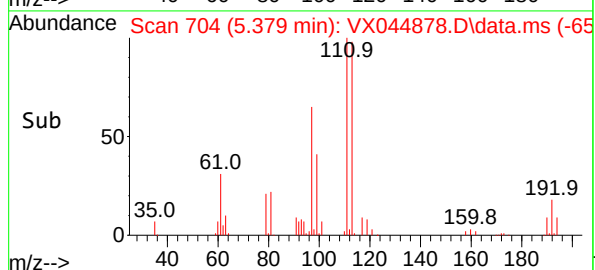
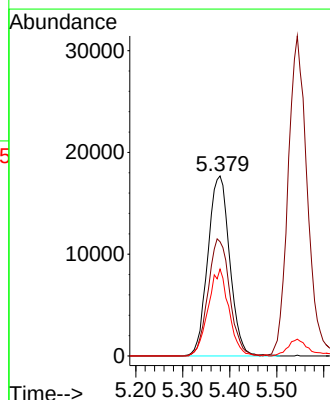
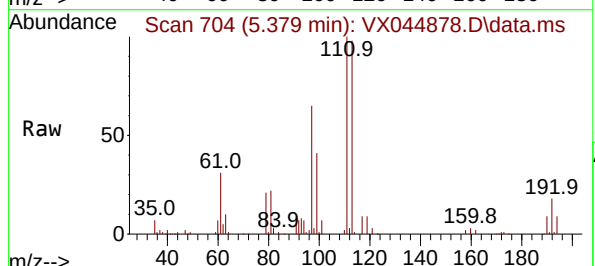
Tgt Ion: 97 Resp: 57025

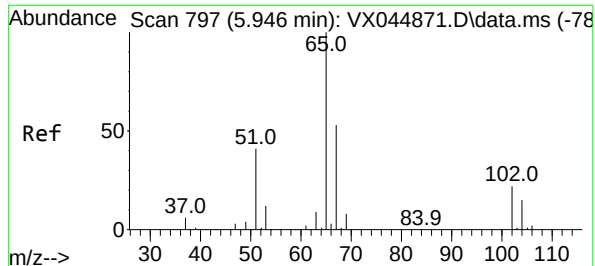
Ion Ratio Lower Upper

97 100

99 64.5 51.0 76.6

61 45.8 36.6 55.0





#33

1,2-Dichloroethane-d4

Concen: 46.759 ug/l

RT: 5.952 min Scan# 79

Delta R.T. 0.007 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01

Tgt Ion: 65 Resp: 9834

Ion Ratio Lower Upper

65 100

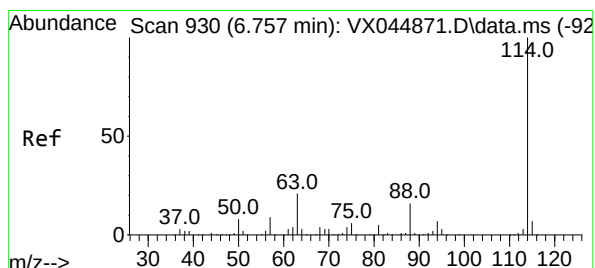
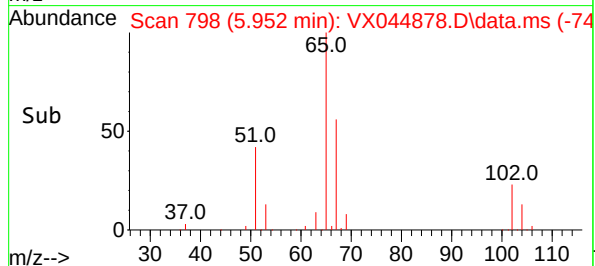
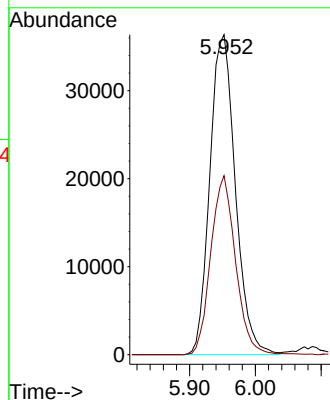
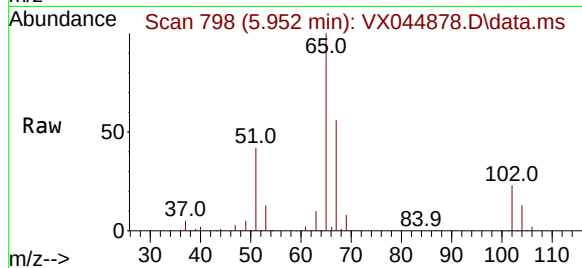
67 54.3 0.0 108.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

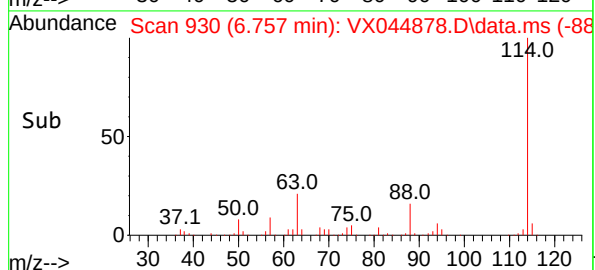
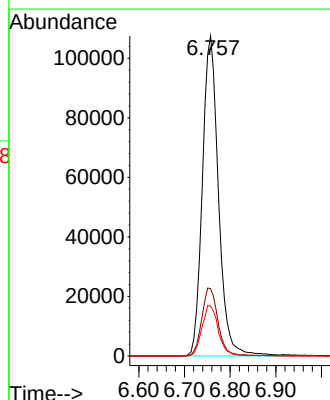
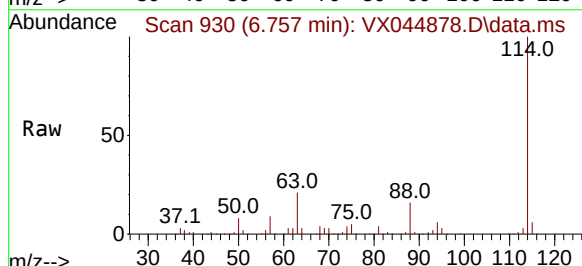
Tgt Ion:114 Resp: 262165

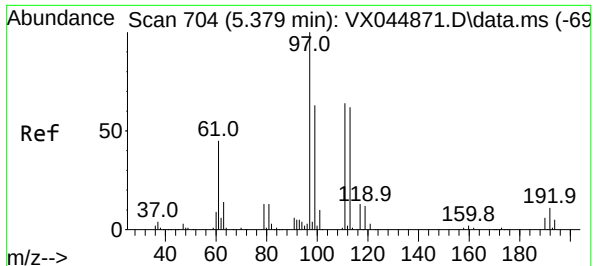
Ion Ratio Lower Upper

114 100

63 21.0 0.0 42.4

88 15.5 0.0 31.4





#35

Dibromofluoromethane

Concen: 46.626 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044878.D

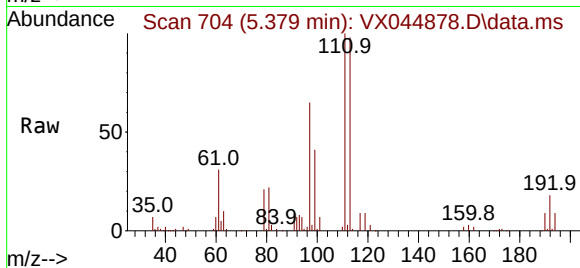
Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01



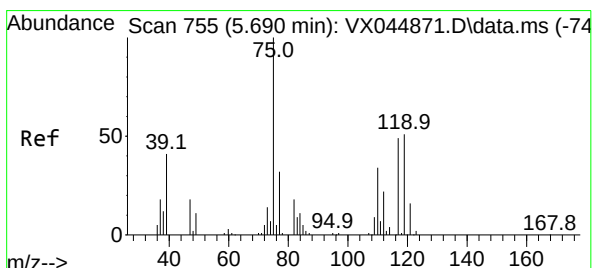
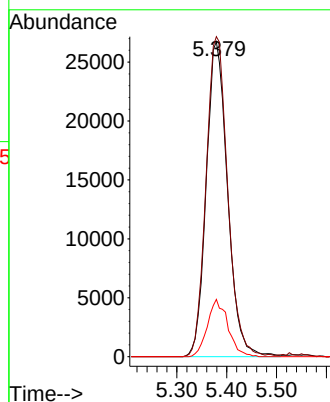
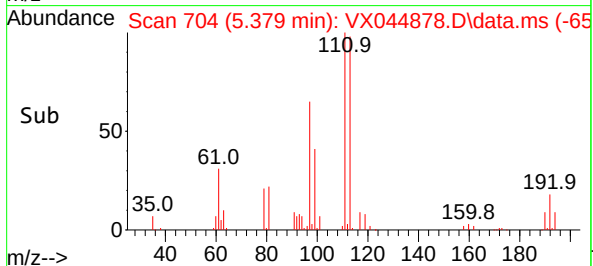
Tgt Ion:	113	Resp:	7947
Ion	Ratio	Lower	Upper
113	100		
111	103.2	83.5	125.3
192	17.5	14.4	21.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#36

1,1-Dichloropropene

Concen: 18.766 ug/l

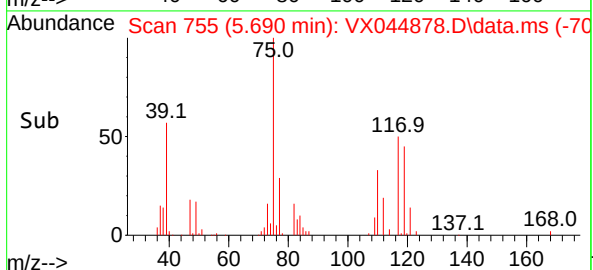
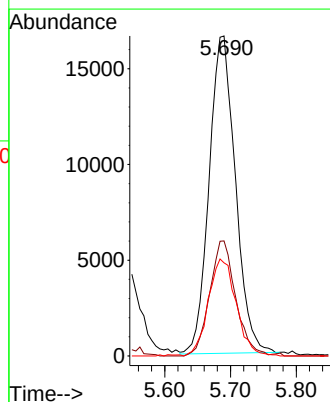
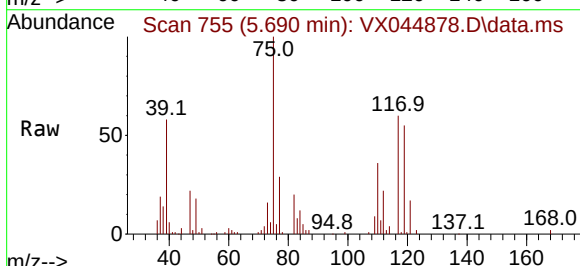
RT: 5.690 min Scan# 755

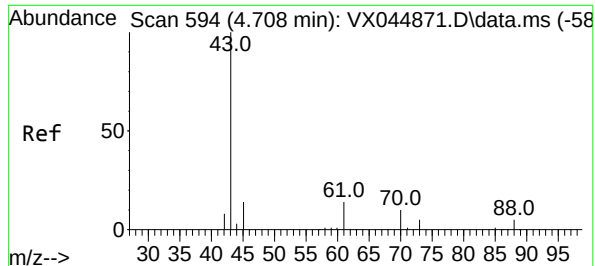
Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Tgt Ion:	75	Resp:	46149
Ion	Ratio	Lower	Upper
75	100		
110	35.9	17.2	51.6
77	32.3	24.6	37.0





#37

Ethyl Acetate

Concen: 19.877 ug/l

RT: 4.709 min Scan# 594

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01

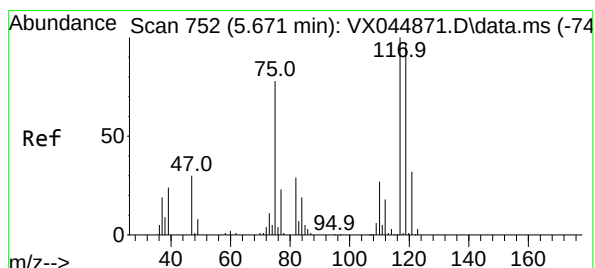
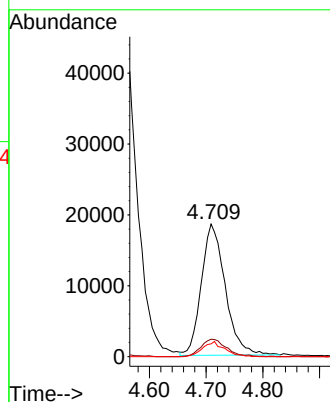
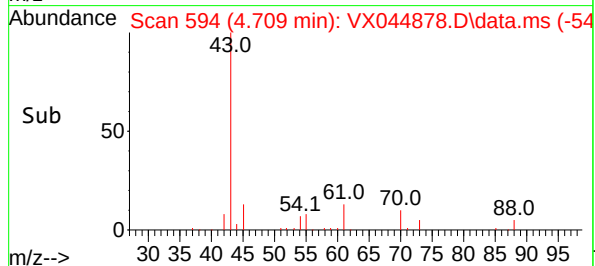
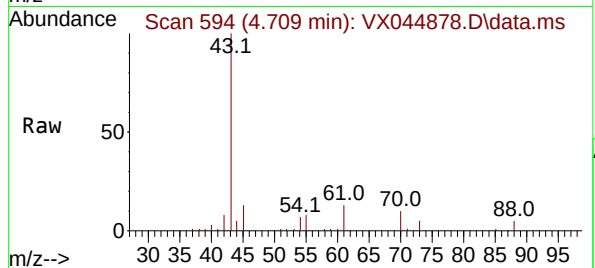
Tgt Ion:	43	Resp:	54369
Ion	Ratio	Lower	Upper
43	100		
61	14.2	11.0	16.4
70	10.5	8.2	12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#38

Carbon Tetrachloride

Concen: 19.768 ug/l

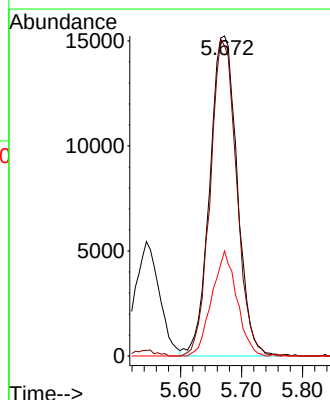
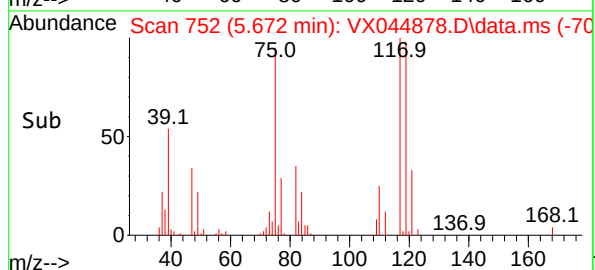
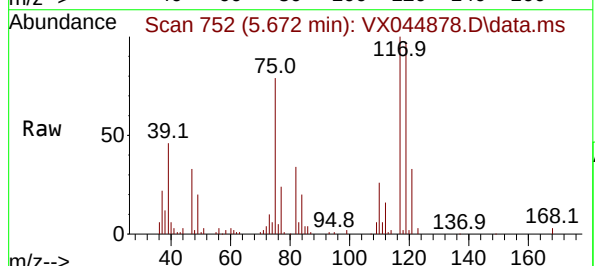
RT: 5.672 min Scan# 752

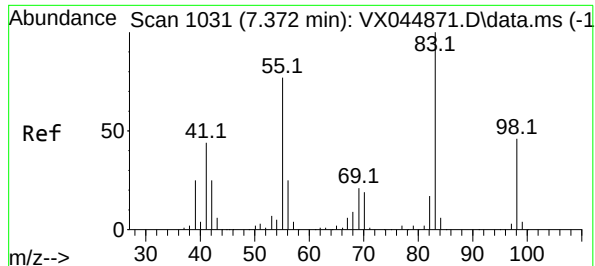
Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Tgt Ion:	117	Resp:	47637
Ion	Ratio	Lower	Upper
117	100		
119	96.9	77.5	116.3
121	32.8	25.6	38.4





#39

Methylcyclohexane

Concen: 21.195 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01

Tgt Ion: 83 Resp: 67384

Ion Ratio Lower Upper

83 100

55 75.9 61.3 91.9

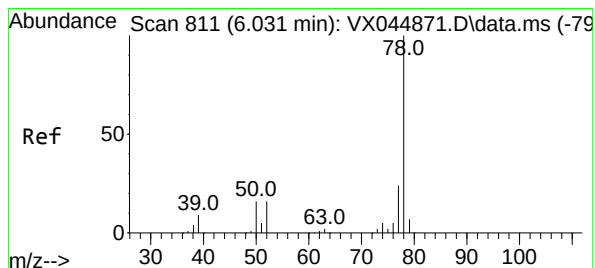
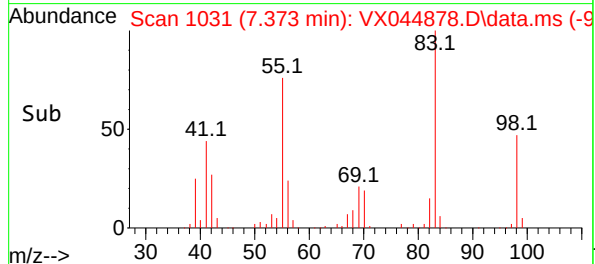
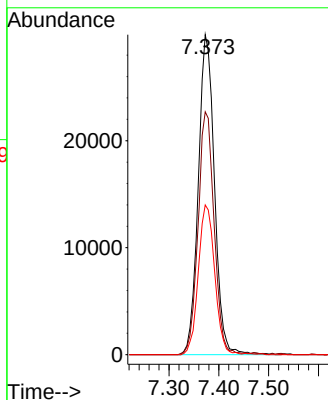
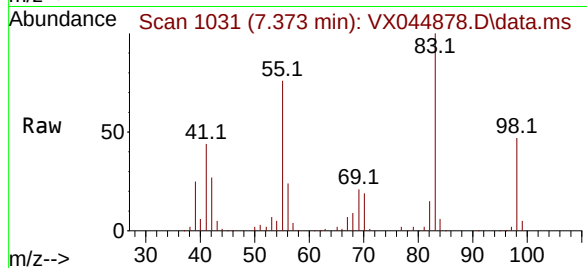
98 46.8 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#40

Benzene

Concen: 20.072 ug/l

RT: 6.032 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX044878.D

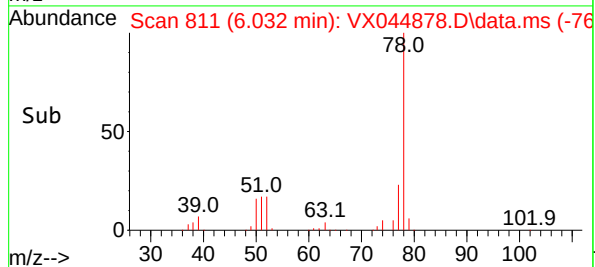
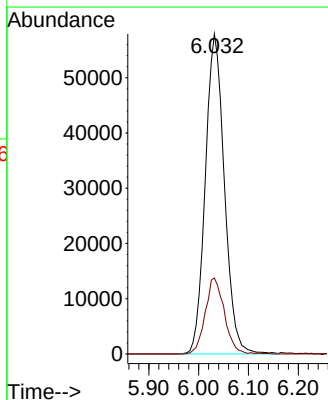
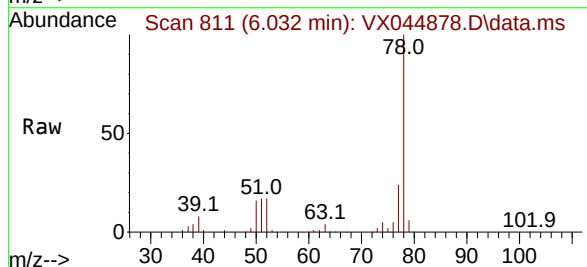
Acq: 10 Feb 2025 14:29

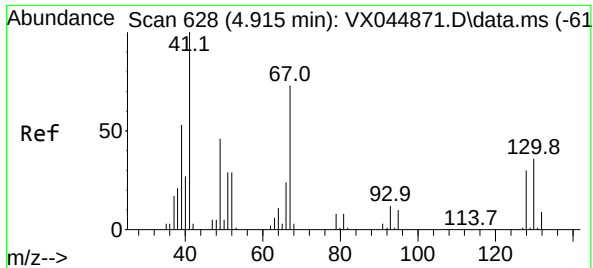
Tgt Ion: 78 Resp: 154127

Ion Ratio Lower Upper

78 100

77 23.7 19.0 28.6





#41

Methacrylonitrile

Concen: 21.104 ug/l

RT: 4.910 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01

Tgt Ion: 41 Resp: 3089

Ion Ratio Lower Upper

41 100

39 54.1 43.1 64.7

67 73.5 57.0 85.6

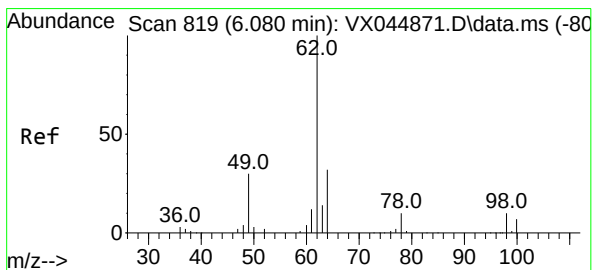
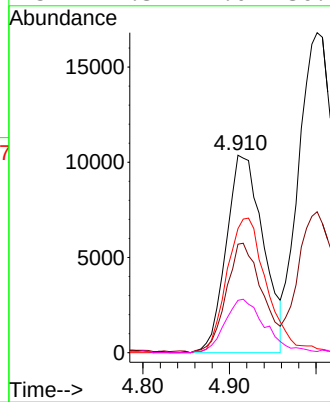
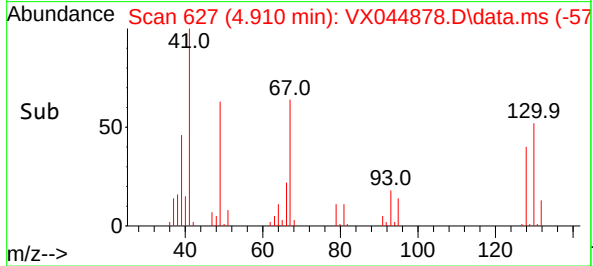
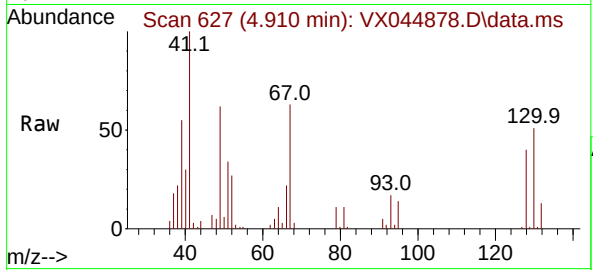
52 29.3 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#42

1,2-Dichloroethane

Concen: 20.372 ug/l

RT: 6.080 min Scan# 819

Delta R.T. 0.000 min

Lab File: VX044878.D

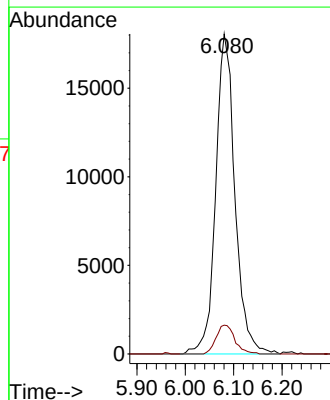
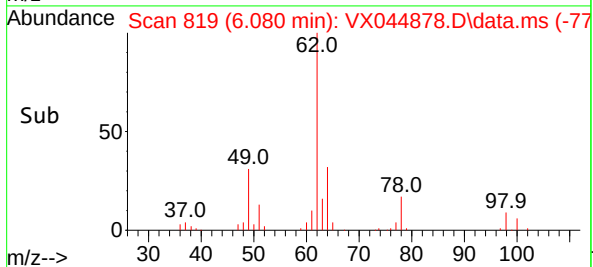
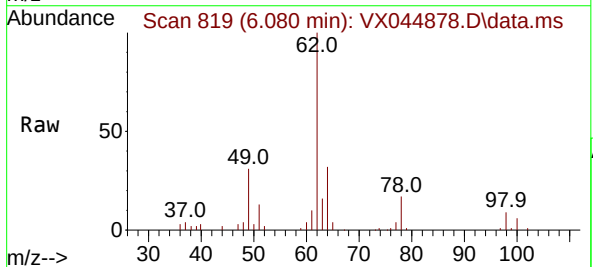
Acq: 10 Feb 2025 14:29

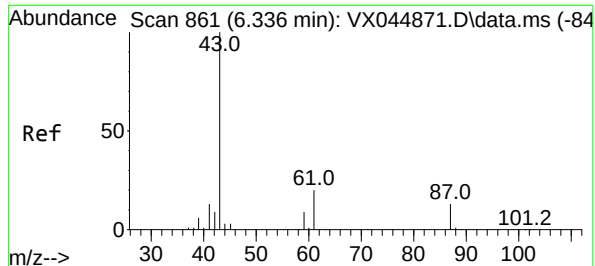
Tgt Ion: 62 Resp: 49858

Ion Ratio Lower Upper

62 100

98 8.8 0.0 19.4





#43

Isopropyl Acetate

Concen: 19.913 ug/l

RT: 6.336 min Scan# 80

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01

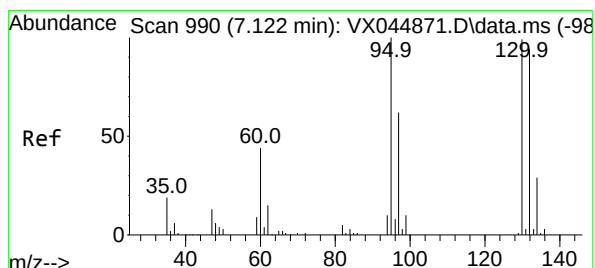
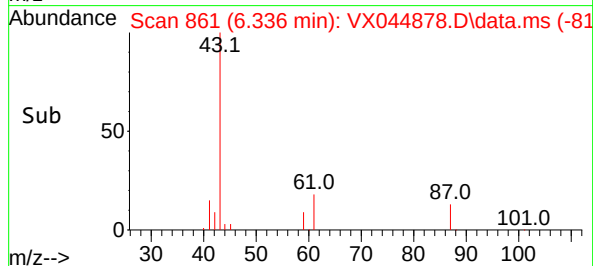
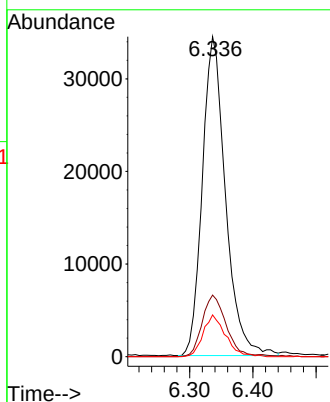
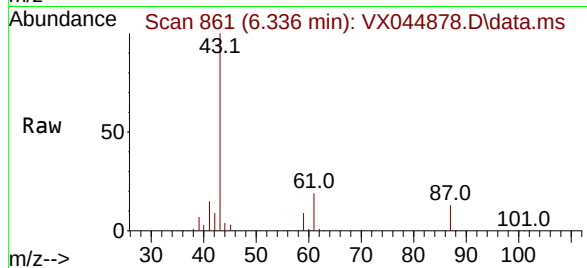
Tgt Ion:	43	Resp:	8795
Ion Ratio	Lower	Upper	
43	100		
61	20.0	15.8	23.8
87	12.6	10.0	15.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#44

Trichloroethene

Concen: 19.780 ug/l

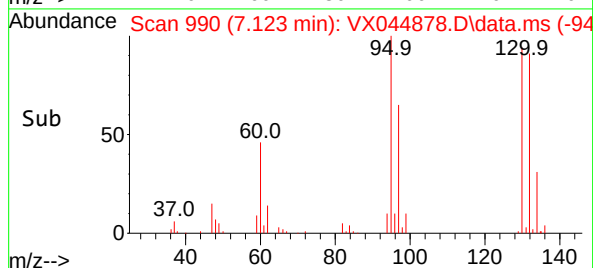
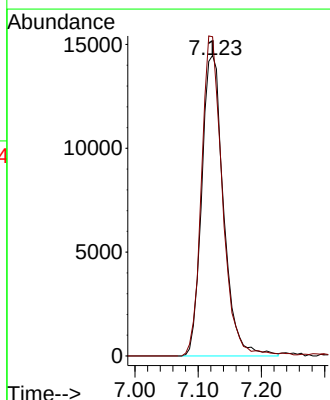
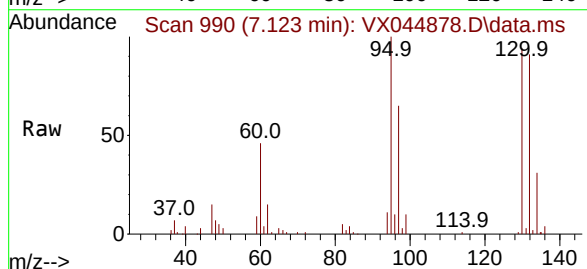
RT: 7.123 min Scan# 990

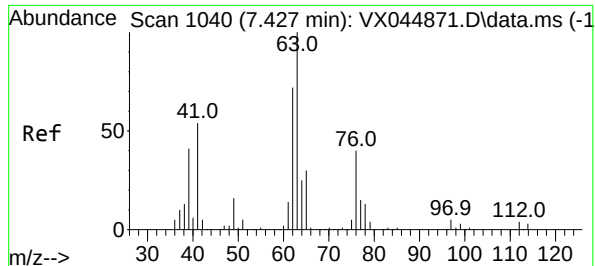
Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Tgt Ion:	130	Resp:	34718
Ion Ratio	Lower	Upper	
130	100		
95	106.2	0.0	202.4





#45

1,2-Dichloropropane

Concen: 19.878 ug/l

RT: 7.428 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01

Tgt Ion: 63 Resp: 3797

Ion Ratio Lower Upper

63 100

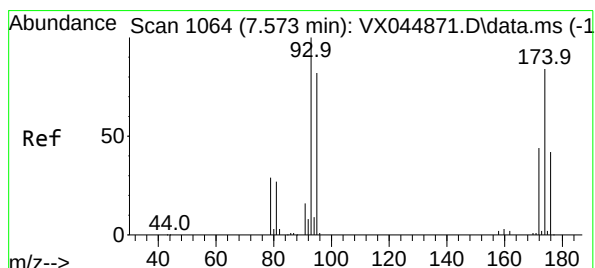
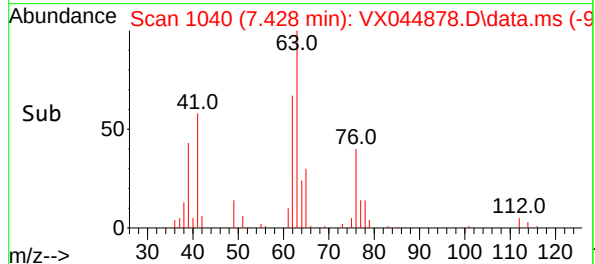
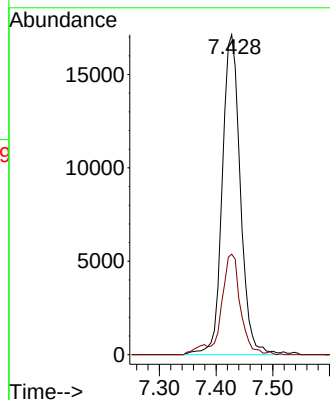
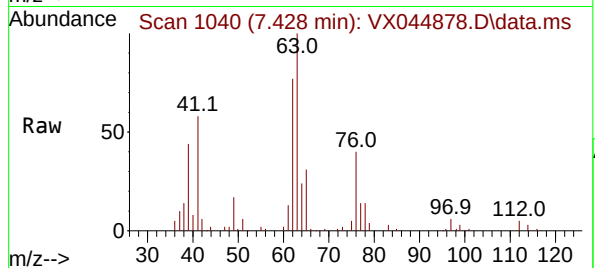
65 31.4 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#46

Dibromomethane

Concen: 19.264 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

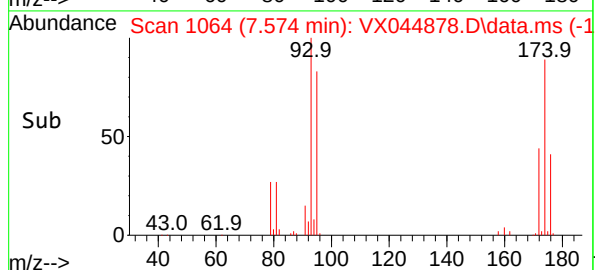
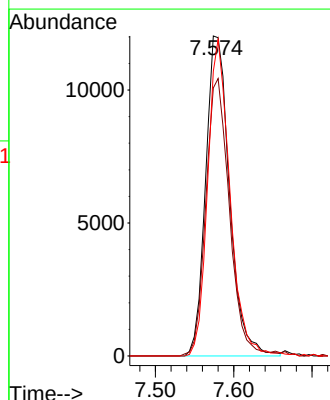
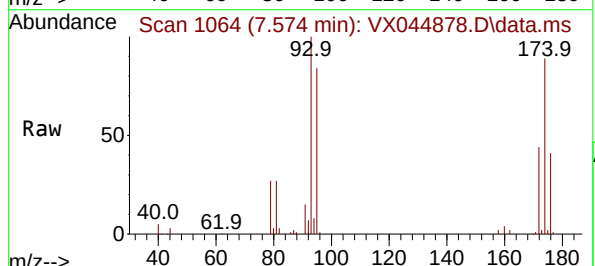
Tgt Ion: 93 Resp: 25522

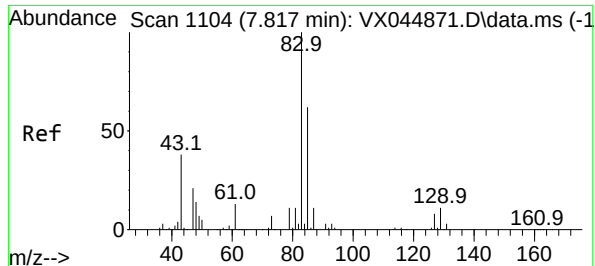
Ion Ratio Lower Upper

93 100

95 85.2 66.2 99.4

174 92.3 69.9 104.9





#47

Bromodichloromethane

Concen: 20.110 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01

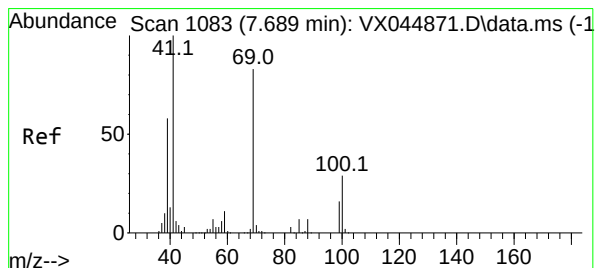
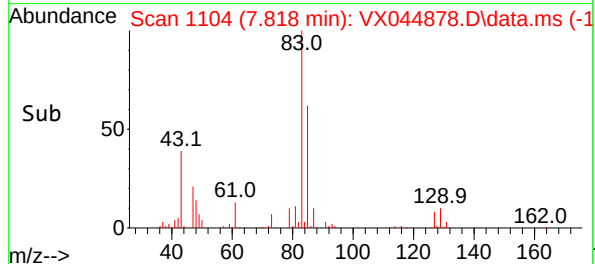
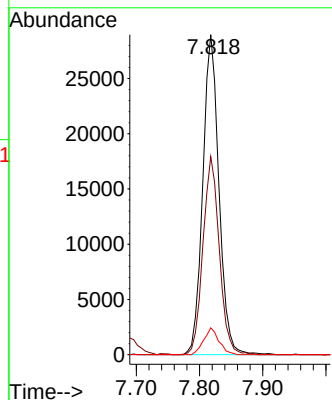
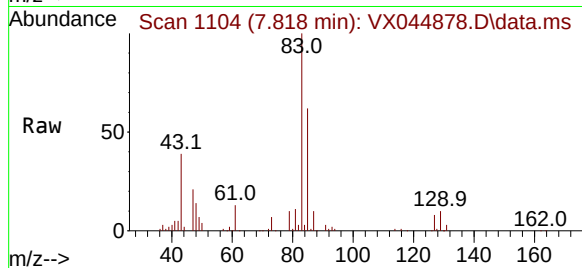
Tgt Ion:	83	Resp:	5158
Ion	Ratio	Lower	Upper
83	100		
85	61.9	50.0	75.0
127	8.4	6.4	9.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#48

Methyl methacrylate

Concen: 20.294 ug/l

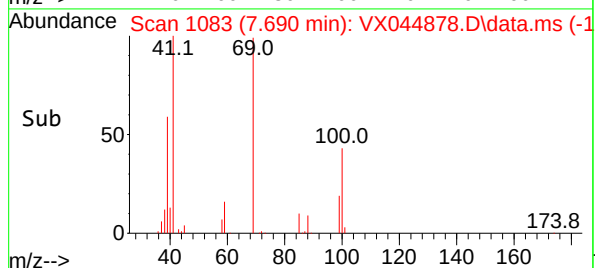
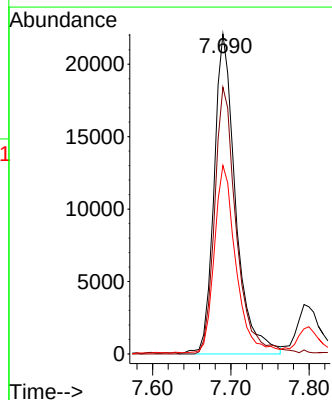
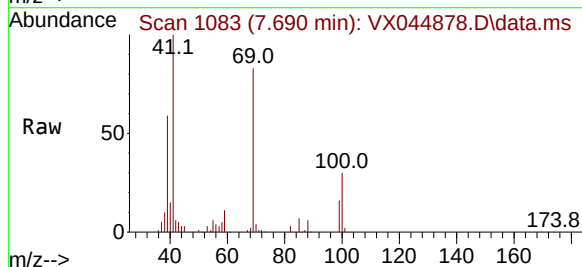
RT: 7.690 min Scan# 1083

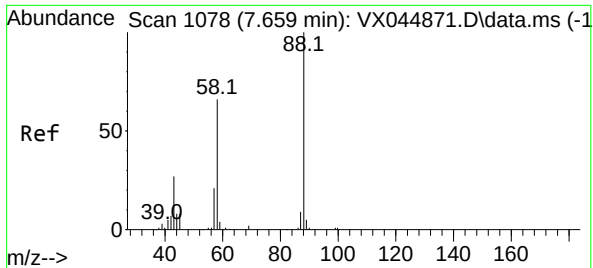
Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Tgt Ion:	41	Resp:	42266
Ion	Ratio	Lower	Upper
41	100		
69	83.9	65.8	98.8
39	58.2	46.4	69.6





#49

1,4-Dioxane

Concen: 447.298 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01

Tgt Ion: 88 Resp: 1998

Ion Ratio Lower Upper

88 100

43 34.6 26.6 39.8

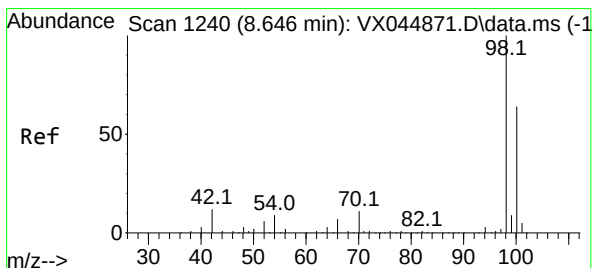
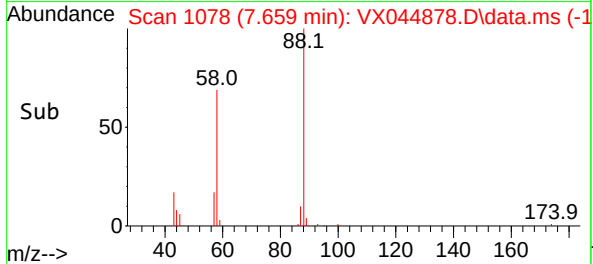
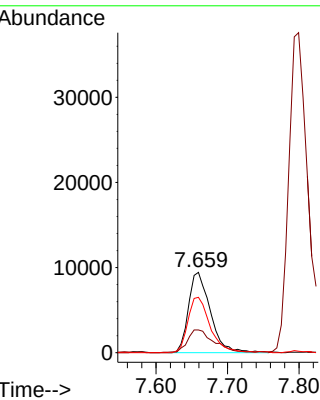
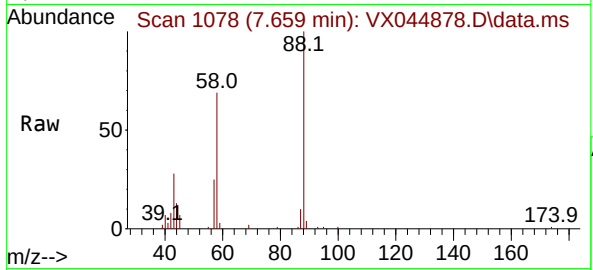
58 69.6 55.9 83.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#50

Toluene-d8

Concen: 46.969 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044878.D

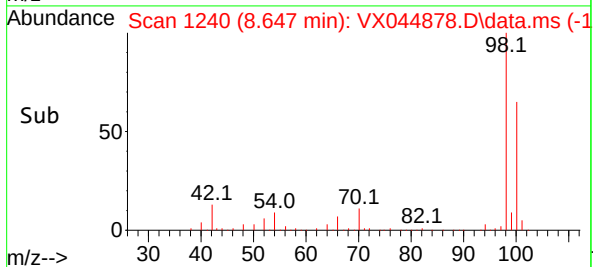
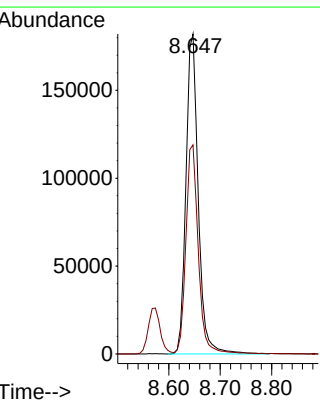
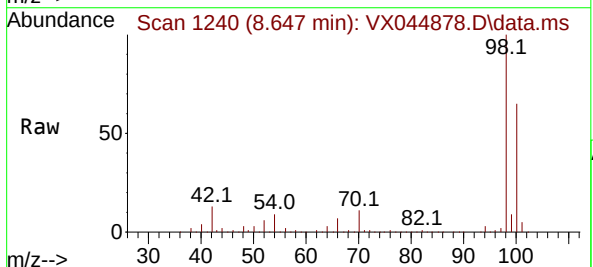
Acq: 10 Feb 2025 14:29

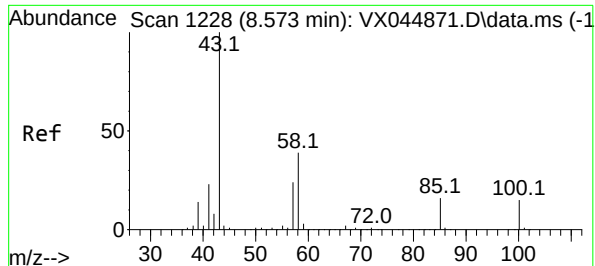
Tgt Ion: 98 Resp: 302739

Ion Ratio Lower Upper

98 100

100 65.9 52.7 79.1





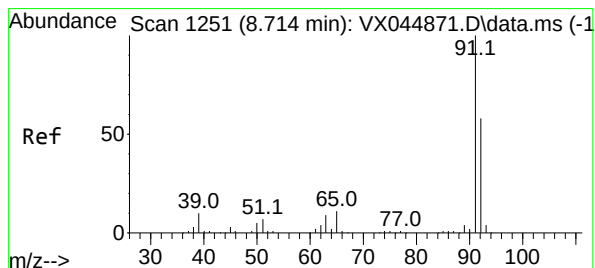
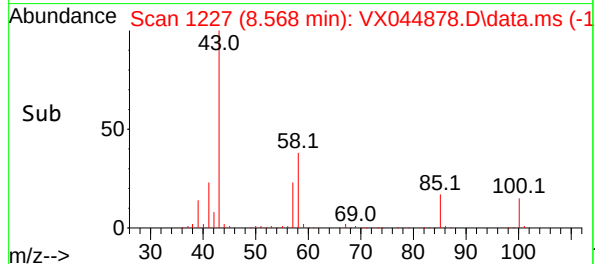
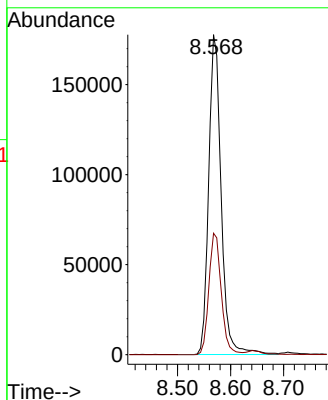
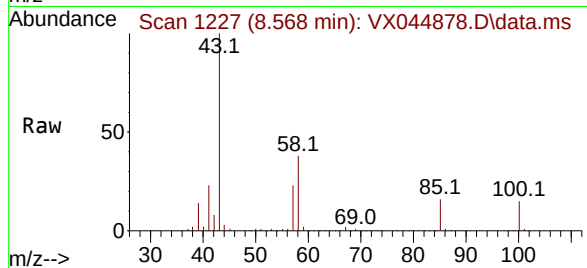
#51
4-Methyl-2-Pentanone
Concen: 108.019 ug/l
RT: 8.568 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
VX0210WBS01

Tgt Ion: 43 Resp: 290064
Ion Ratio Lower Upper
43 100
58 37.8 30.8 46.2

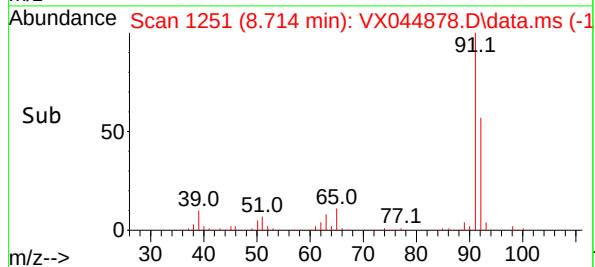
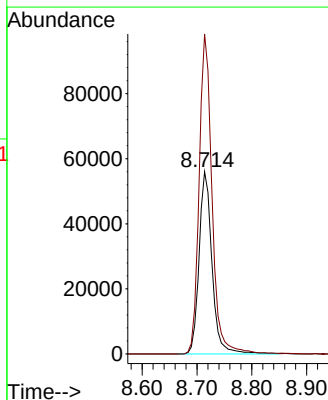
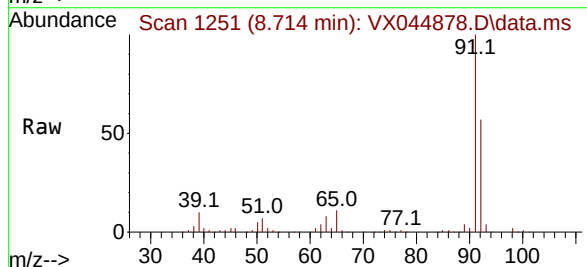
Manual Integrations
APPROVED

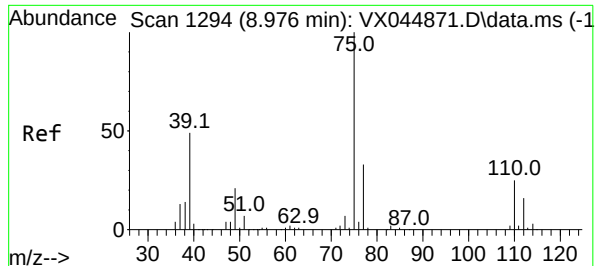
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#52
Toluene
Concen: 20.146 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

Tgt Ion: 92 Resp: 92132
Ion Ratio Lower Upper
92 100
91 175.0 137.4 206.2





#53

t-1,3-Dichloropropene

Concen: 19.766 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01

Tgt Ion: 75 Resp: 5131

Ion Ratio Lower Upper

75 100

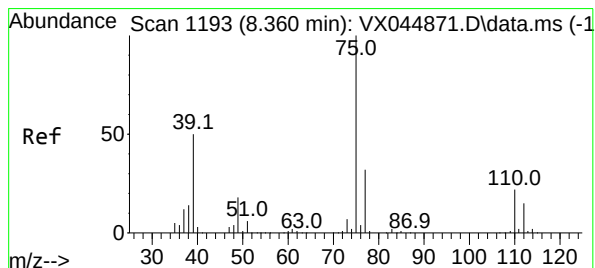
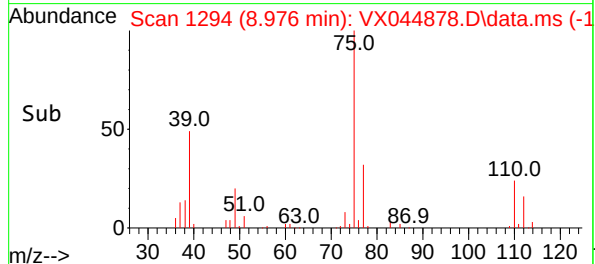
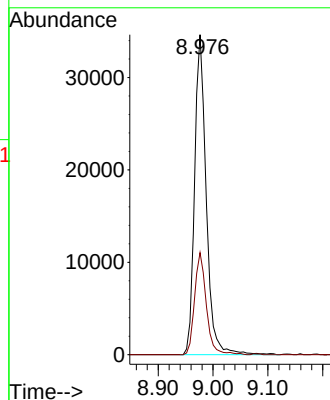
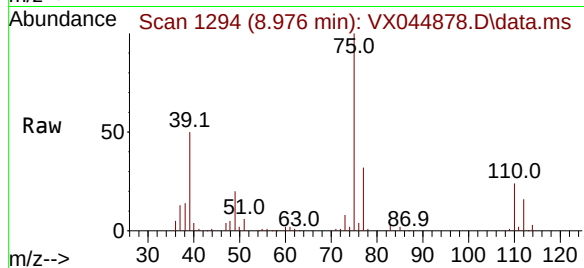
77 31.9 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#54

cis-1,3-Dichloropropene

Concen: 20.261 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.007 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

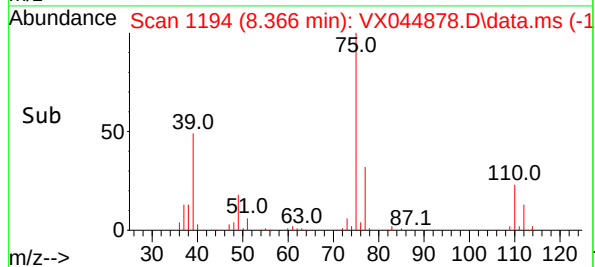
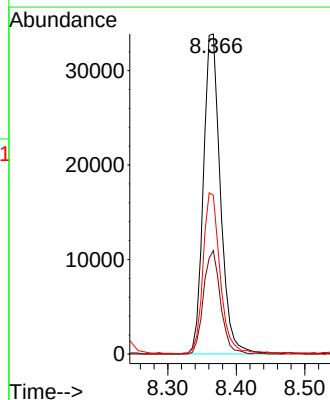
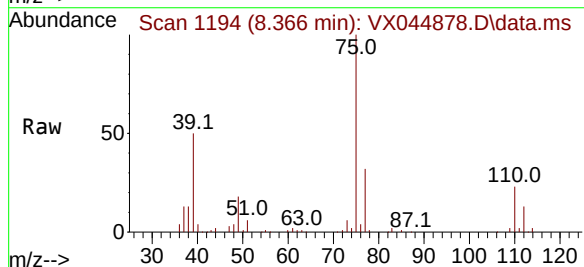
Tgt Ion: 75 Resp: 58644

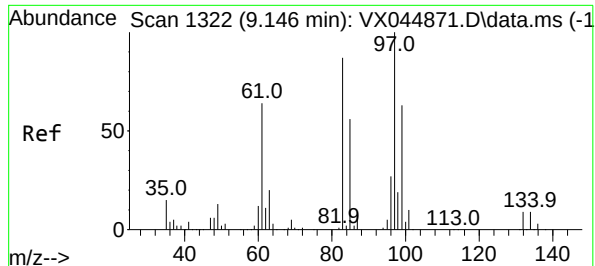
Ion Ratio Lower Upper

75 100

77 32.3 25.3 37.9

39 49.6 40.0 60.0





#55

1,1,2-Trichloroethane

Concen: 19.906 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01

Tgt Ion: 97 Resp: 3499

Ion Ratio Lower Upper

97 100

83 90.1 69.8 104.6

85 60.4 44.8 67.2

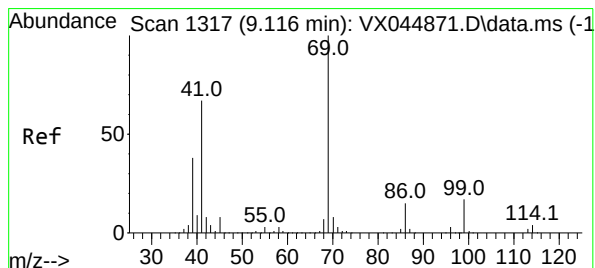
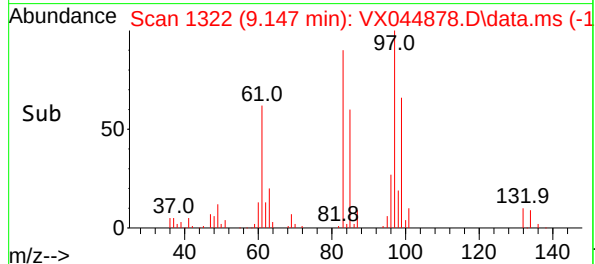
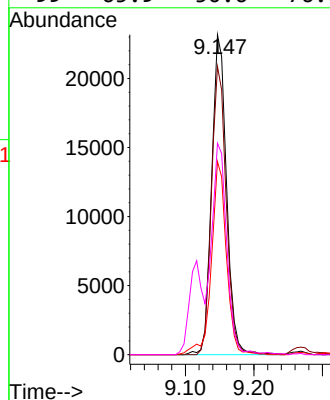
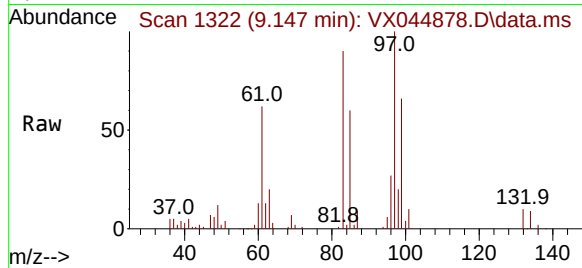
99 65.9 50.6 76.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#56

Ethyl methacrylate

Concen: 20.415 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

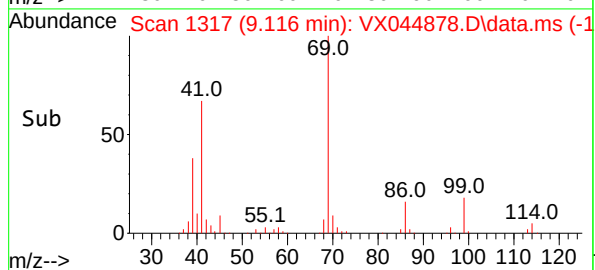
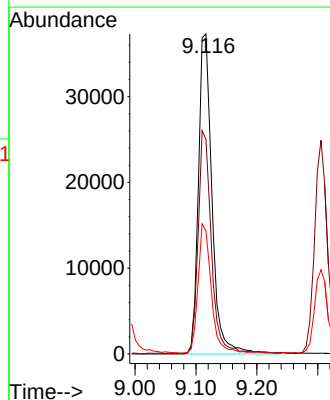
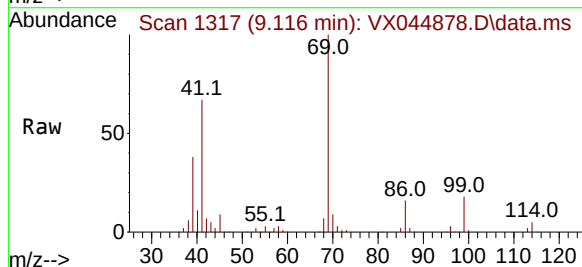
Tgt Ion: 69 Resp: 57965

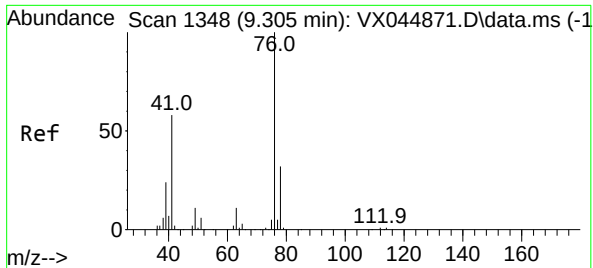
Ion Ratio Lower Upper

69 100

41 68.3 55.2 82.8

39 38.8 30.8 46.2





#57

1,3-Dichloropropane

Concen: 20.002 ug/l

RT: 9.305 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01

Tgt Ion: 76 Resp: 61524

Ion Ratio Lower Upper

76 100

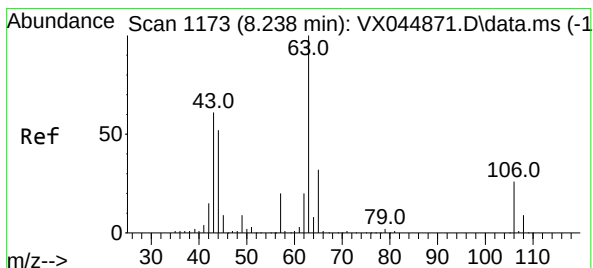
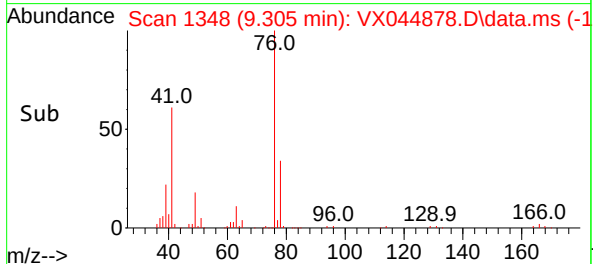
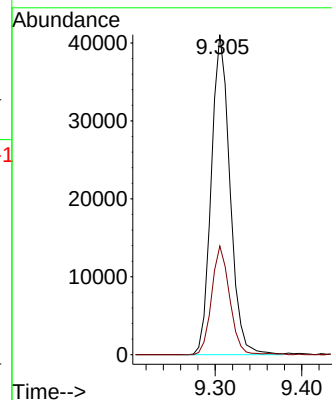
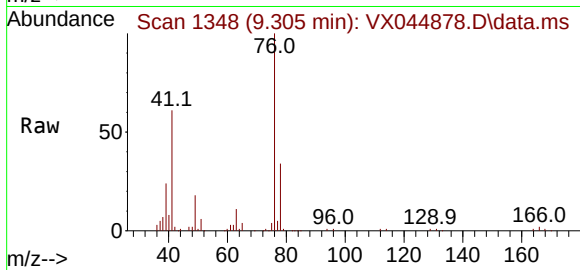
78 32.7 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#58

2-Chloroethyl Vinyl ether

Concen: 92.073 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX044878.D

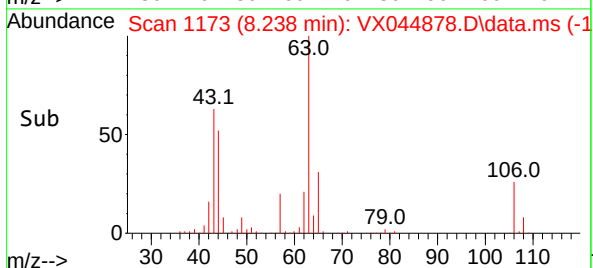
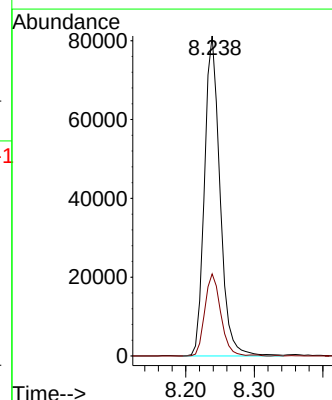
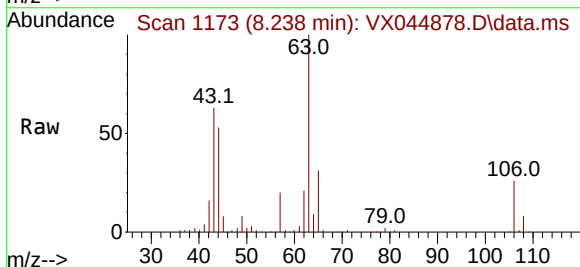
Acq: 10 Feb 2025 14:29

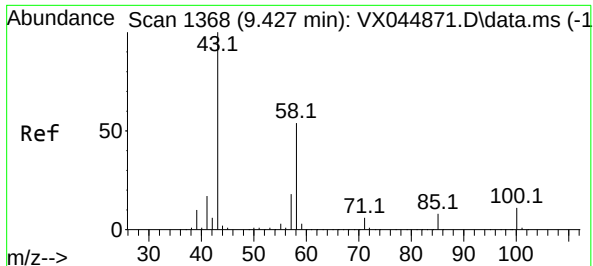
Tgt Ion: 63 Resp: 128363

Ion Ratio Lower Upper

63 100

106 26.1 21.3 31.9





#59

2-Hexanone

Concen: 111.057 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01

Tgt Ion: 43 Resp: 214872

Ion Ratio Lower Upper

43 100

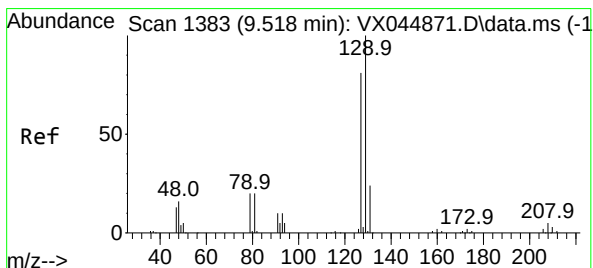
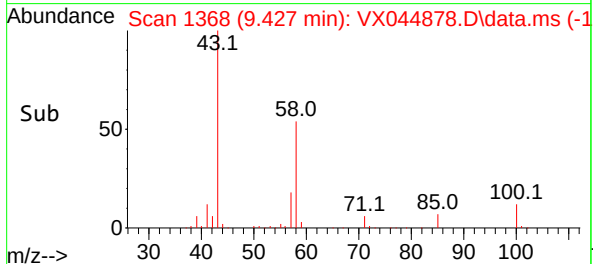
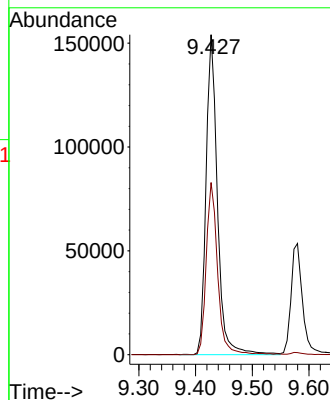
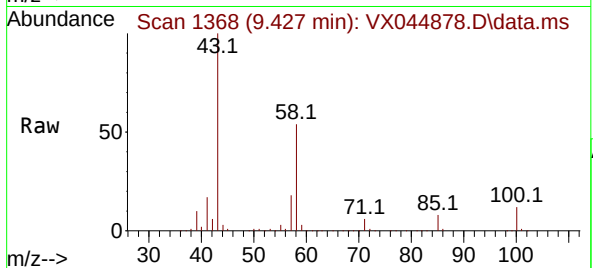
58 54.2 27.5 82.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#60

Dibromochloromethane

Concen: 19.909 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX044878.D

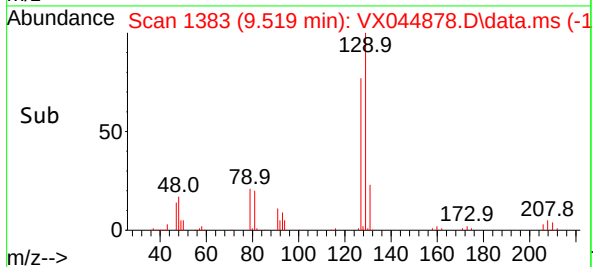
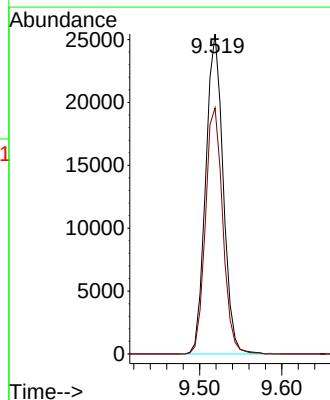
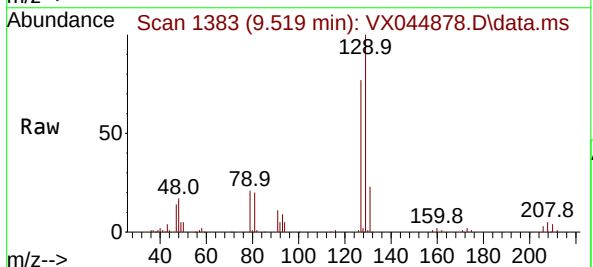
Acq: 10 Feb 2025 14:29

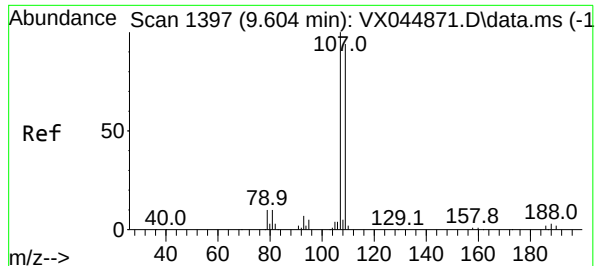
Tgt Ion:129 Resp: 37432

Ion Ratio Lower Upper

129 100

127 76.6 39.1 117.3





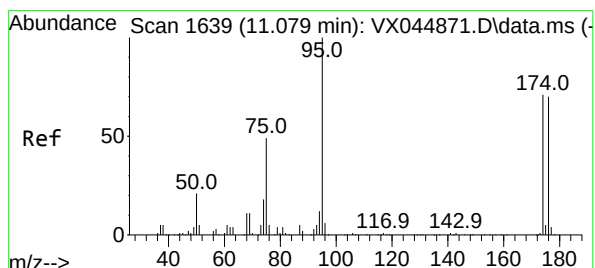
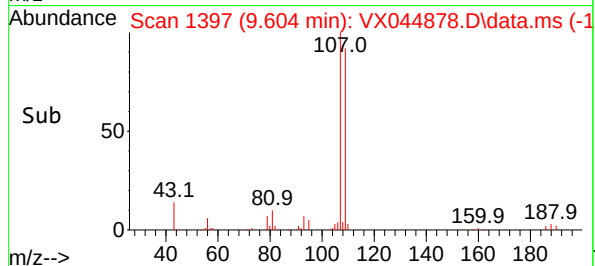
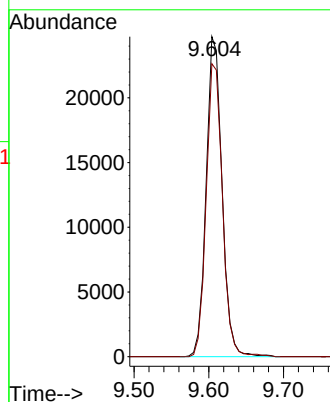
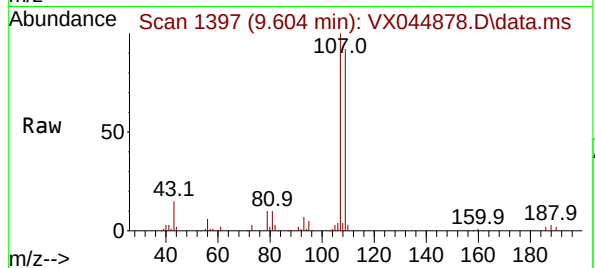
#61
1,2-Dibromoethane
Concen: 20.475 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
VX0210WBS01

Tgt Ion:107 Resp: 3648
Ion Ratio Lower Upper
107 100
109 93.7 75.9 113.9

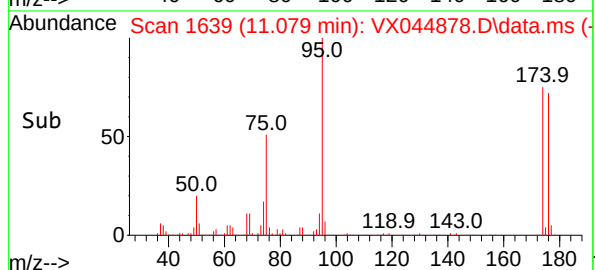
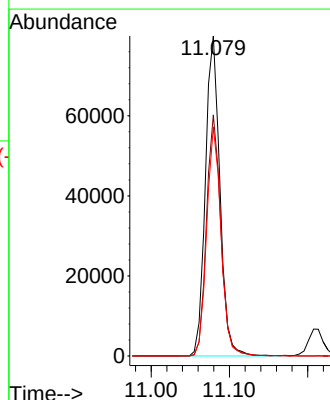
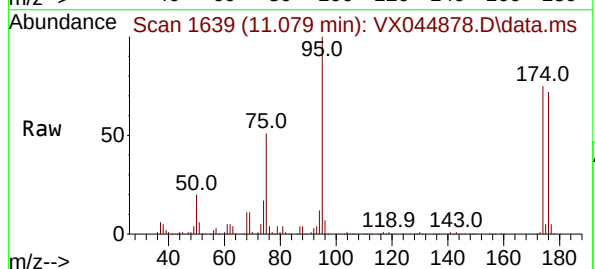
Manual Integrations
APPROVED

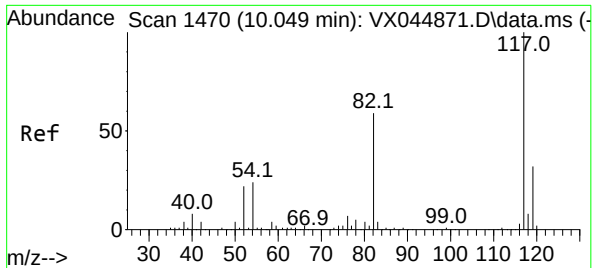
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#62
4-Bromofluorobenzene
Concen: 47.184 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

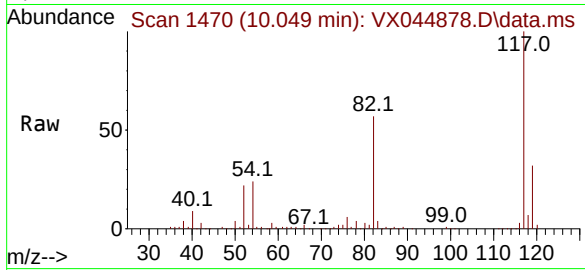
Tgt Ion: 95 Resp: 102526
Ion Ratio Lower Upper
95 100
174 74.8 0.0 142.6
176 70.9 0.0 141.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

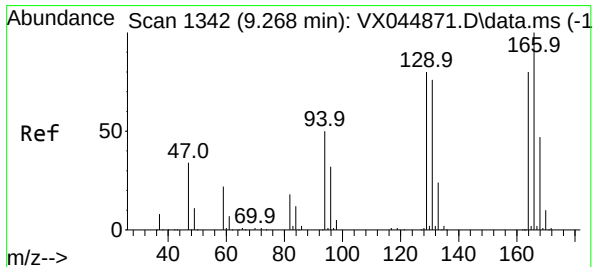
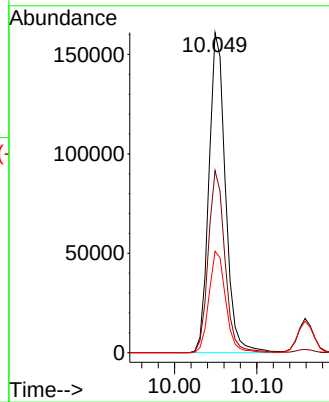
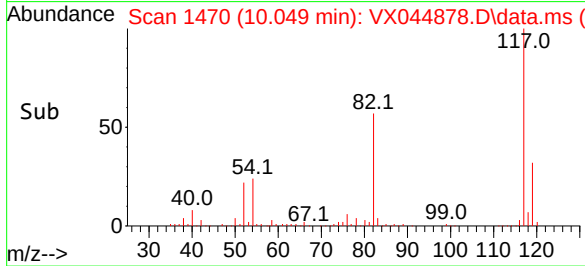
Instrument :
MSVOA_X
ClientSampleId :
VX0210WBS01



Tgt Ion:117 Resp: 22471
Ion Ratio Lower Upper
117 100
82 56.9 47.5 71.3
119 31.7 25.4 38.0

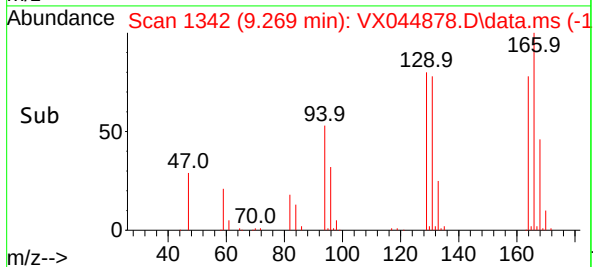
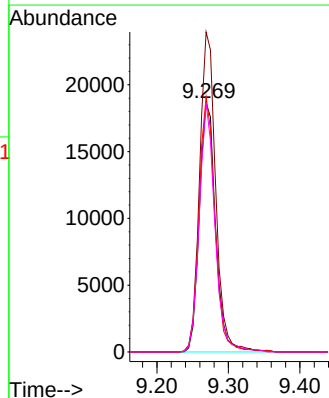
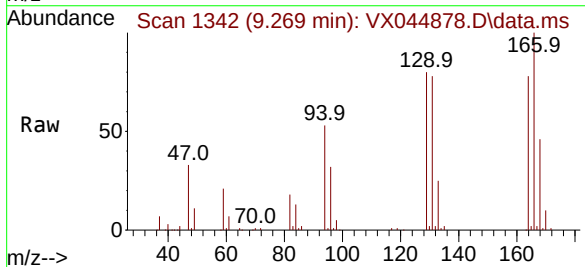
Manual Integrations
APPROVED

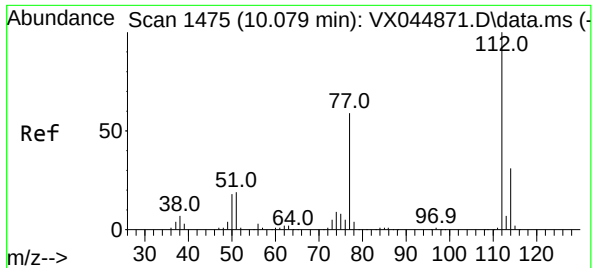
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#64
Tetrachloroethene
Concen: 20.765 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

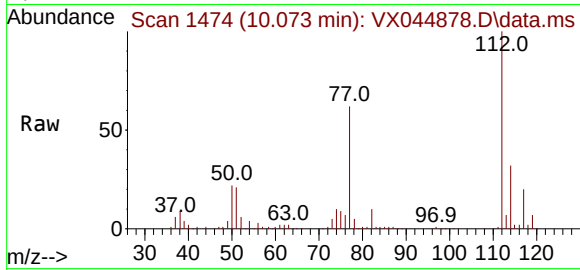
Tgt Ion:164 Resp: 29427
Ion Ratio Lower Upper
164 100
166 128.4 100.4 150.6
129 102.4 79.9 119.9
131 99.9 75.9 113.9





#65
Chlorobenzene
Concen: 20.654 ug/l
RT: 10.073 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

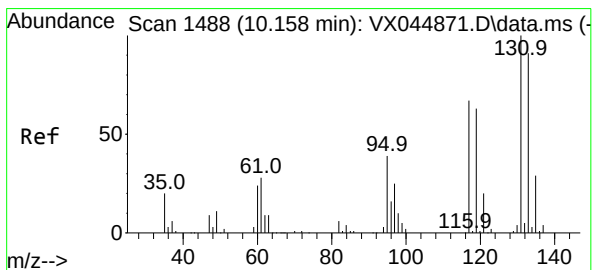
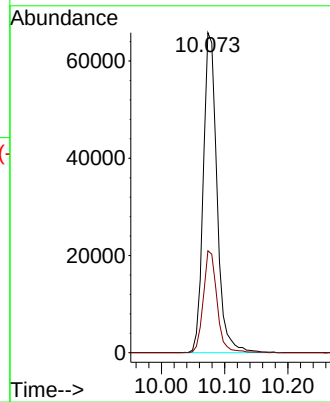
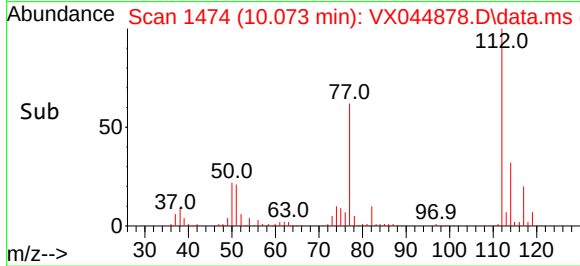
Instrument :
MSVOA_X
ClientSampleId :
VX0210WBS01



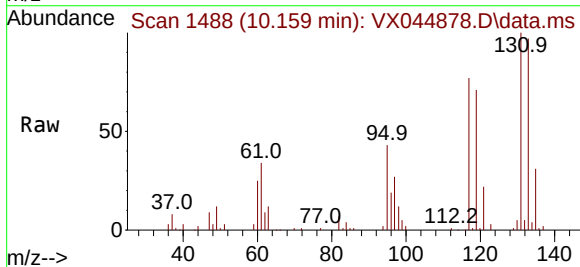
Tgt Ion:112 Resp: 99689
Ion Ratio Lower Upper
112 100
114 31.8 25.0 37.6

Manual Integrations
APPROVED

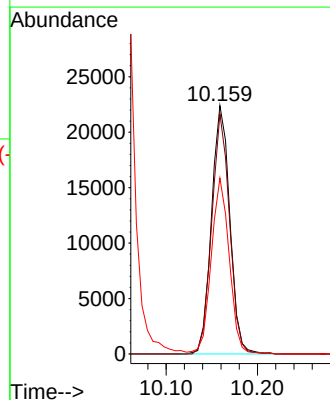
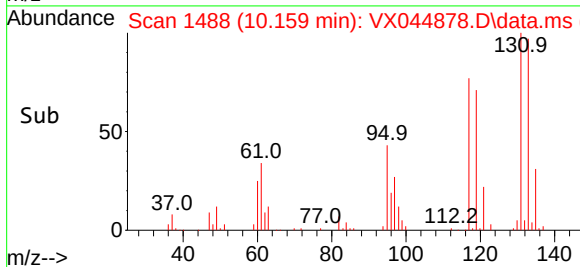
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

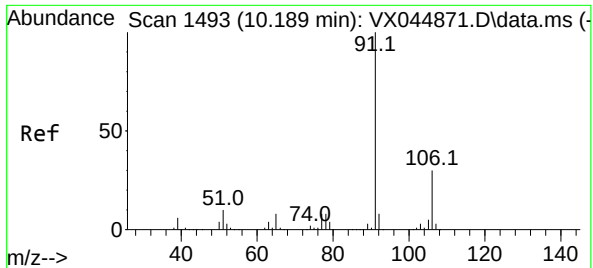


#66
1,1,1,2-Tetrachloroethane
Concen: 20.128 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29



Tgt Ion:131 Resp: 31269
Ion Ratio Lower Upper
131 100
133 94.0 47.1 141.3
119 69.6 33.6 100.6





#67

Ethyl Benzene

Concen: 20.457 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01

Tgt Ion: 91 Resp: 174238

Ion Ratio Lower Upper

91 100

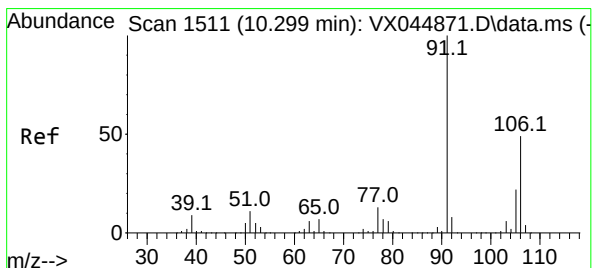
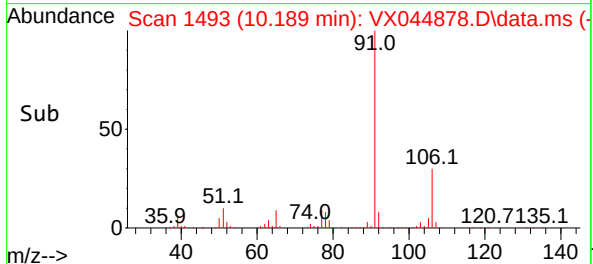
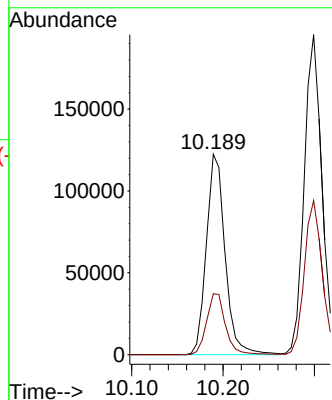
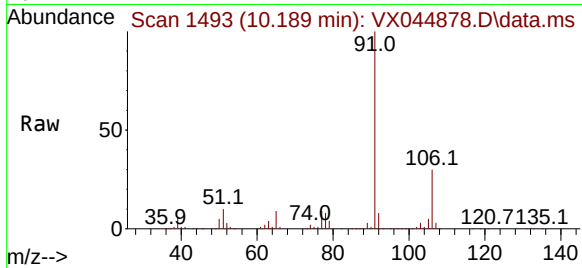
106 30.4 23.9 35.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#68

m/p-Xylenes

Concen: 41.956 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX044878.D

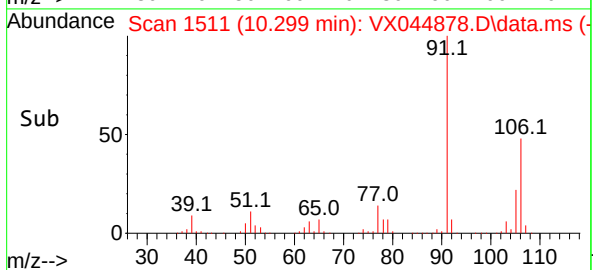
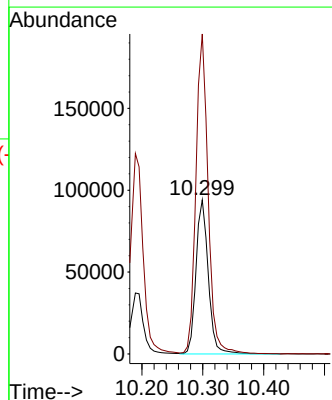
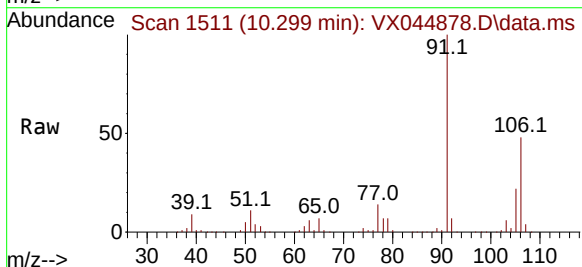
Acq: 10 Feb 2025 14:29

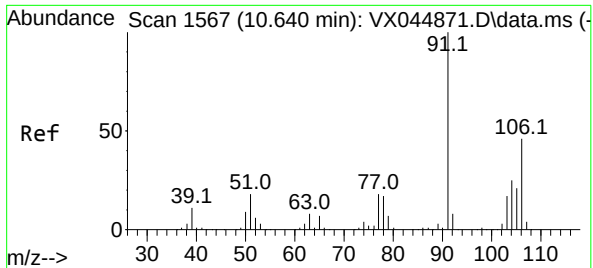
Tgt Ion:106 Resp: 131822

Ion Ratio Lower Upper

106 100

91 205.2 164.3 246.5





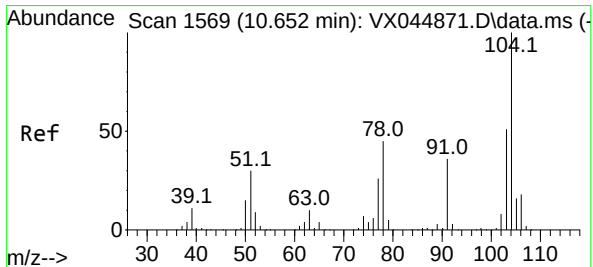
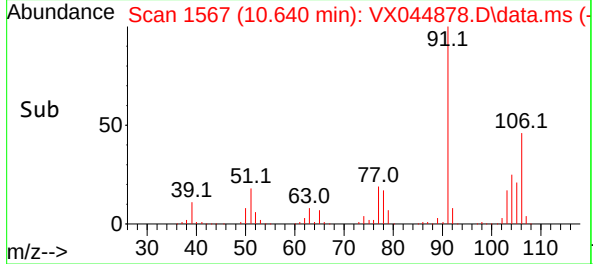
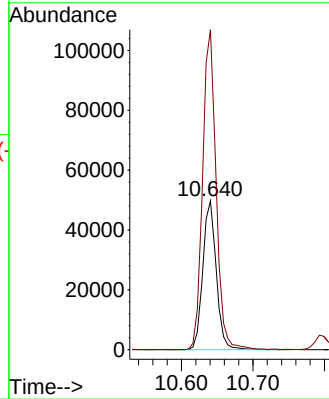
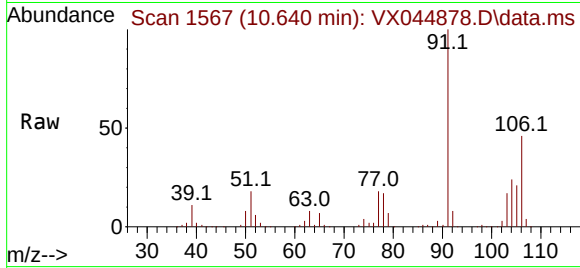
#69
o-Xylene
Concen: 20.623 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
VX0210WBS01

Tgt Ion:106 Resp: 65010
Ion Ratio Lower Upper
106 100
91 215.8 108.5 325.5

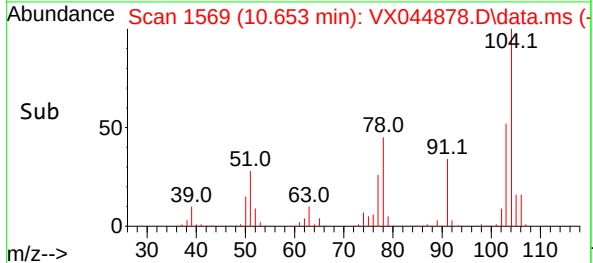
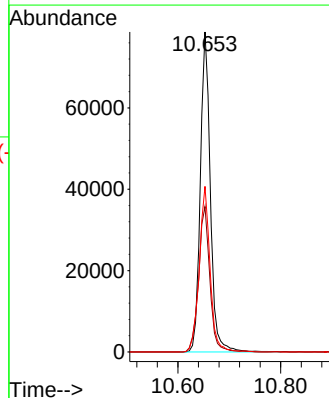
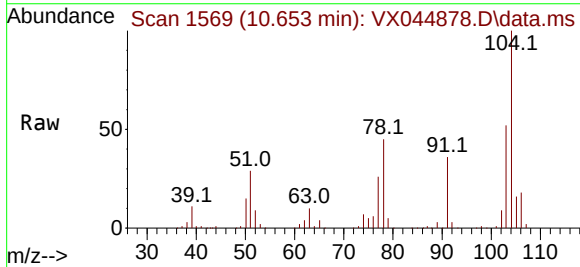
Manual Integrations
APPROVED

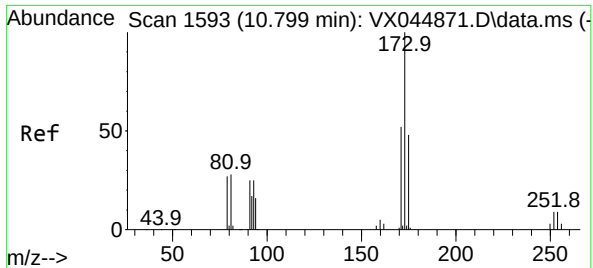
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#70
Styrene
Concen: 21.030 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

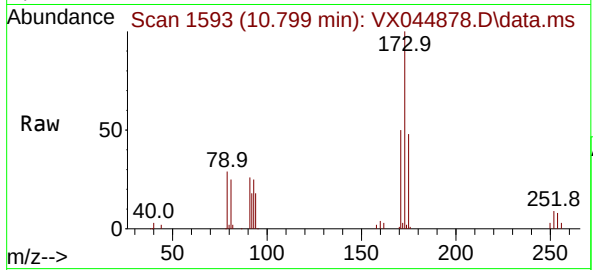
Tgt Ion:104 Resp: 106815
Ion Ratio Lower Upper
104 100
78 50.8 40.5 60.7
103 56.0 43.6 65.4





#71
Bromoform
Concen: 20.468 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

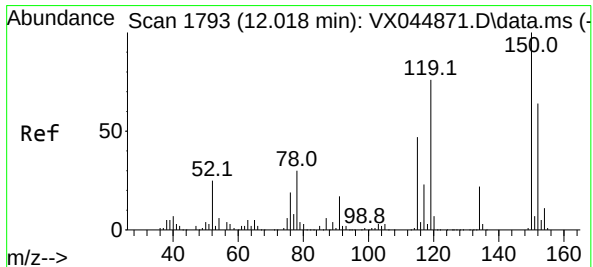
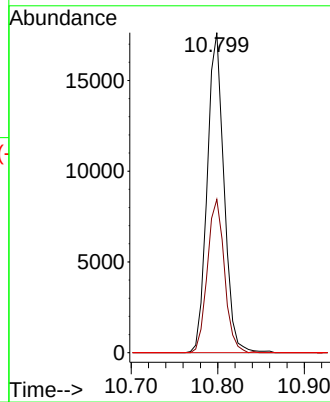
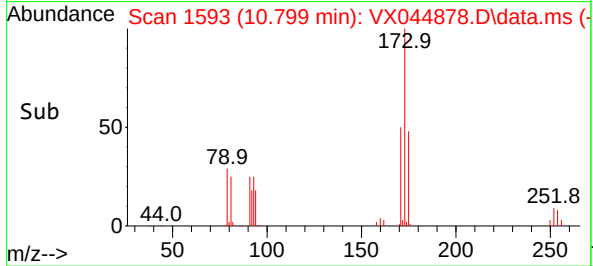
Instrument :
MSVOA_X
ClientSampleId :
VX0210WBS01



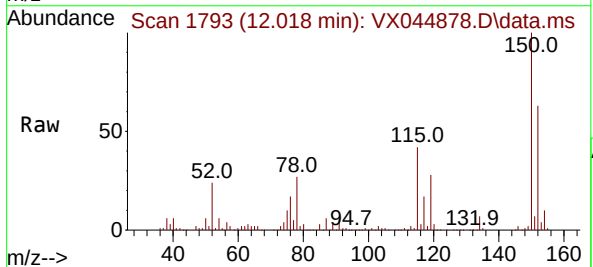
Tgt Ion:173 Resp: 2373
Ion Ratio Lower Upper
173 100
175 48.8 24.3 72.8
254 0.0 0.0 0.0

Manual Integrations
APPROVED

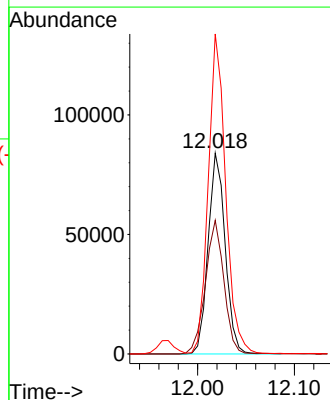
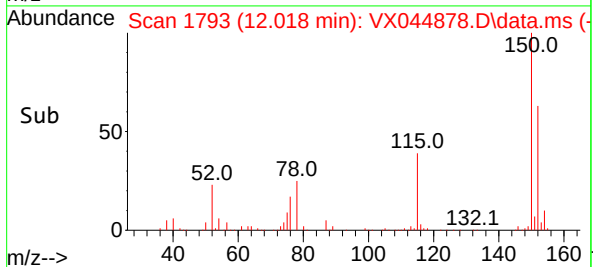
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

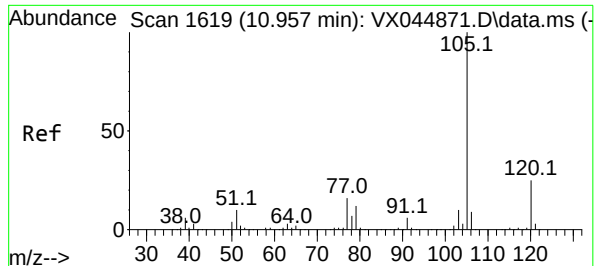


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29



Tgt Ion:152 Resp: 103194
Ion Ratio Lower Upper
152 100
115 72.5 43.4 130.1
150 162.3 0.0 350.4





#73

Isopropylbenzene

Concen: 19.781 ug/l

RT: 10.957 min Scan# 1619

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01

Tgt Ion:105 Resp: 16436

Ion Ratio Lower Upper

105 100

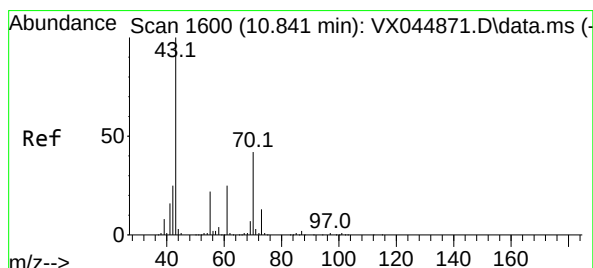
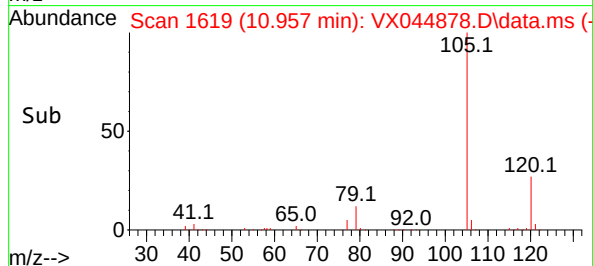
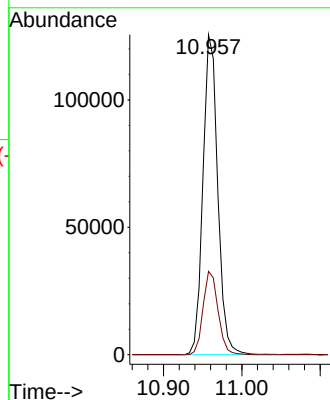
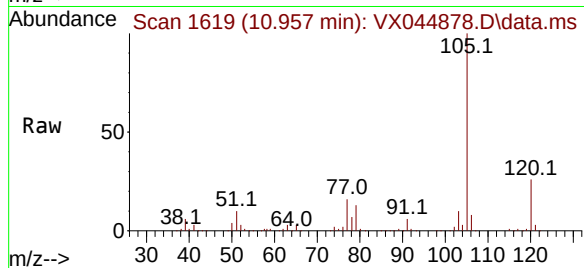
120 26.4 13.2 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#74

N-ethyl acetate

Concen: 20.486 ug/l

RT: 10.842 min Scan# 1600

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Tgt Ion: 43 Resp: 77027

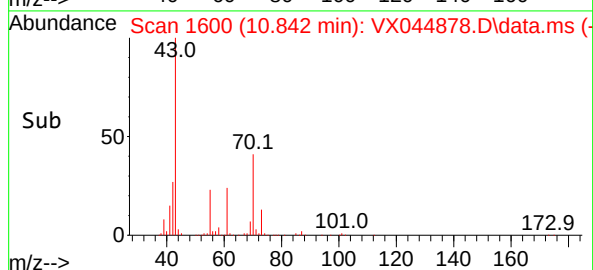
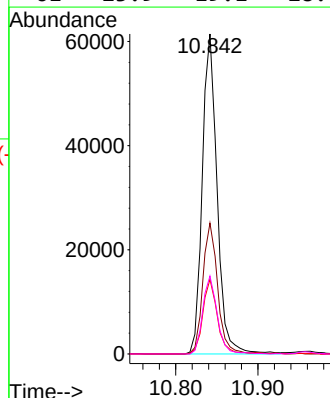
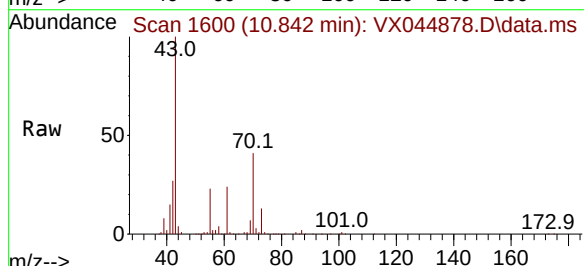
Ion Ratio Lower Upper

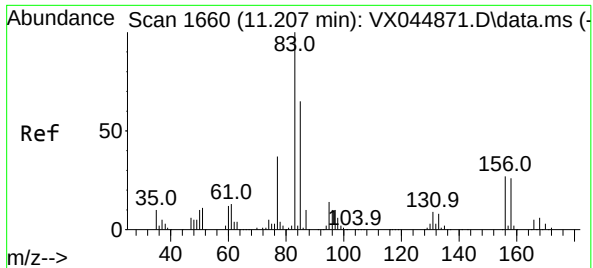
43 100

70 41.1 33.7 50.5

55 22.9 18.6 27.8

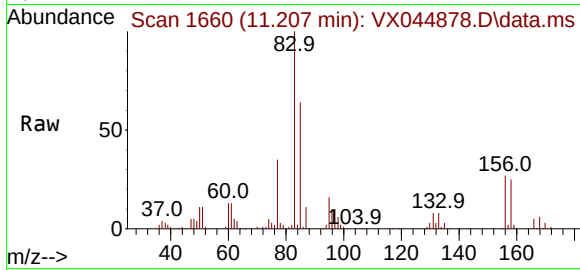
61 23.9 19.1 28.7





#75
 1,1,2,2-Tetrachloroethane
 Concen: 19.895 ug/l
 RT: 11.207 min Scan# 1660
 Delta R.T. 0.000 min
 Lab File: VX044878.D
 Acq: 10 Feb 2025 14:29

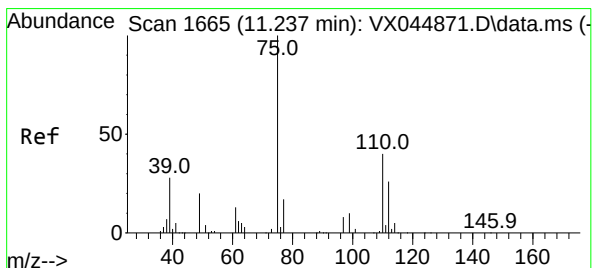
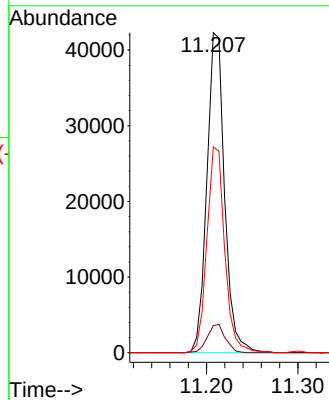
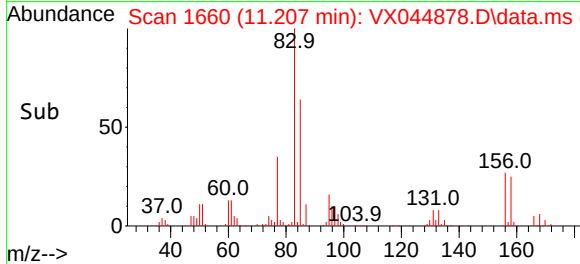
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0210WBS01



Tgt Ion: 83 Resp: 56800
 Ion Ratio Lower Upper
 83 100
 131 9.0 4.5 13.5
 85 64.6 32.3 96.8

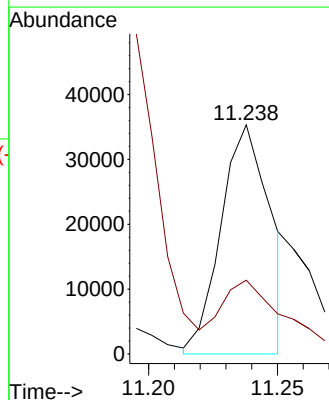
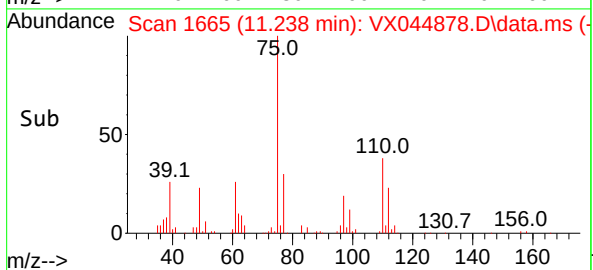
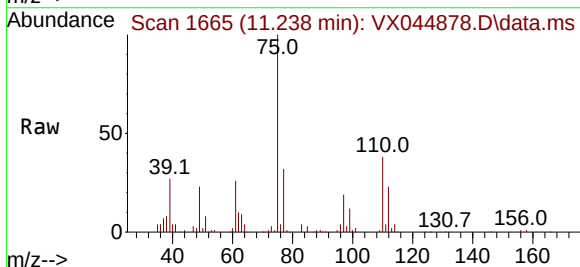
Manual Integrations
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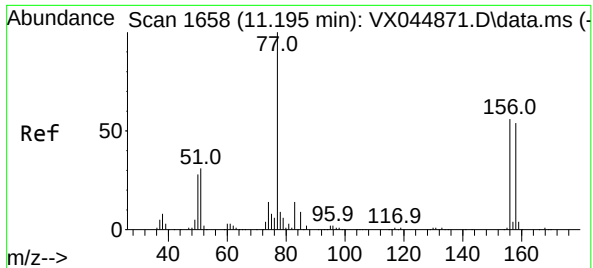
Reviewed By :John Carlone 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025



#76
 1,2,3-Trichloropropane
 Concen: 20.468 ug/l m
 RT: 11.238 min Scan# 1665
 Delta R.T. 0.000 min
 Lab File: VX044878.D
 Acq: 10 Feb 2025 14:29

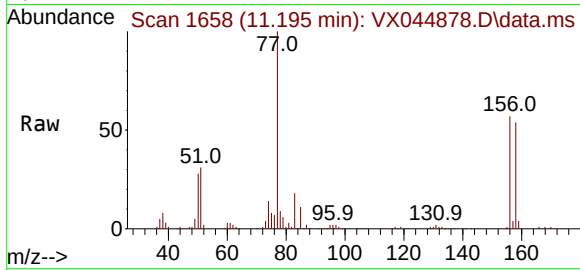
Tgt Ion: 75 Resp: 46830
 Ion Ratio Lower Upper
 75 100
 77 42.2 21.9 65.7





#77
Bromobenzene
Concen: 20.147 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

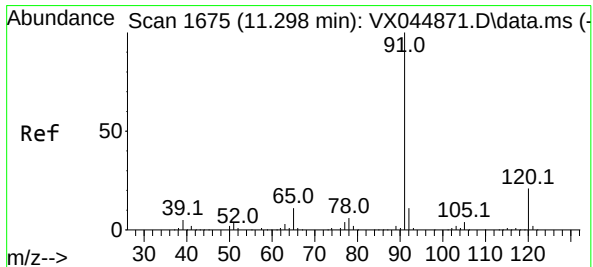
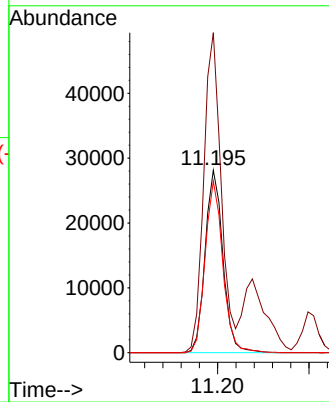
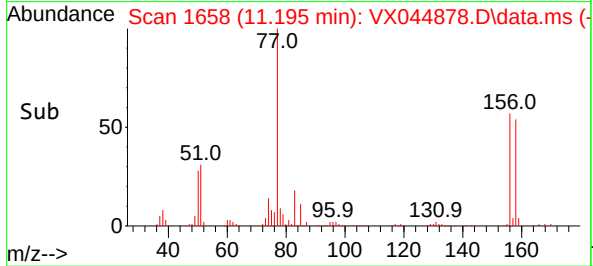
Instrument :
MSVOA_X
ClientSampleId :
VX0210WBS01



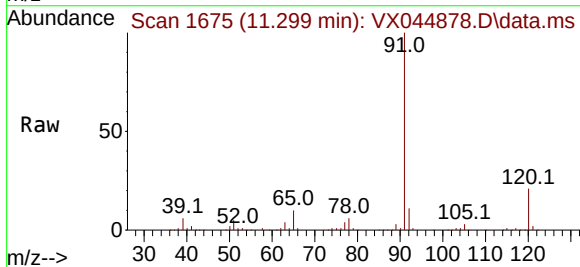
Tgt Ion:156 Resp: 37952
Ion Ratio Lower Upper
156 100
77 171.6 88.4 265.3
158 93.9 48.4 145.2

Manual Integrations
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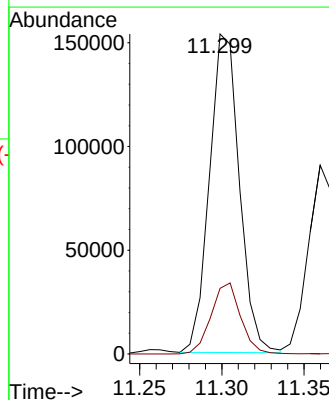
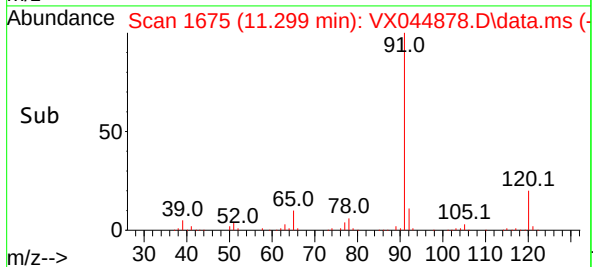
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

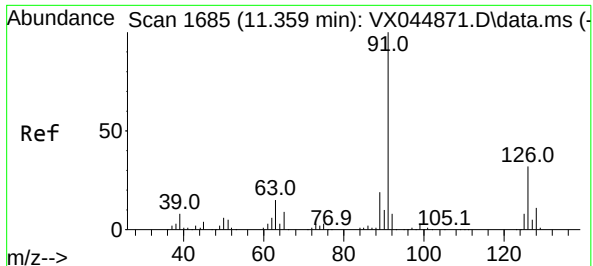


#78
n-propylbenzene
Concen: 20.282 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29



Tgt Ion: 91 Resp: 194513
Ion Ratio Lower Upper
91 100
120 22.0 11.1 33.3





#79

2-Chlorotoluene

Concen: 19.726 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01

Tgt Ion: 91 Resp: 116272

Ion Ratio Lower Upper

91 100

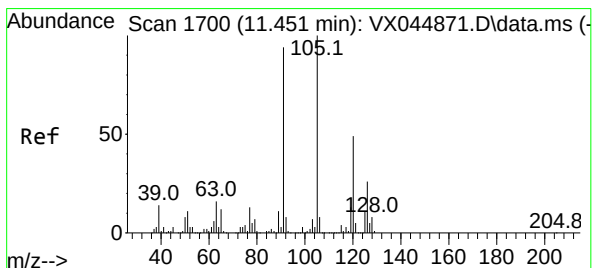
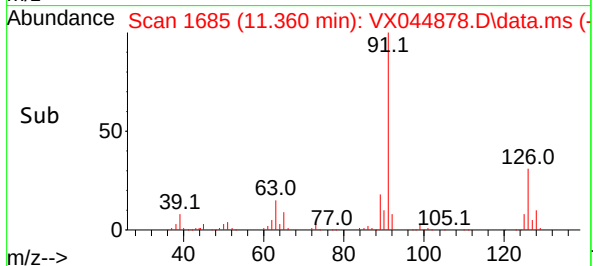
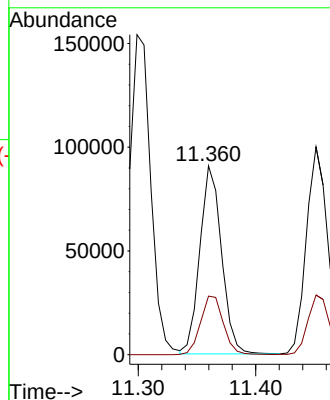
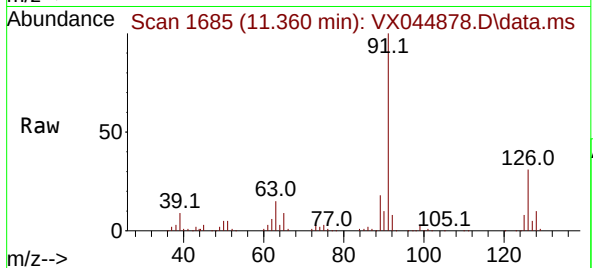
126 32.8 16.2 48.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#80

1,3,5-Trimethylbenzene

Concen: 20.491 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX044878.D

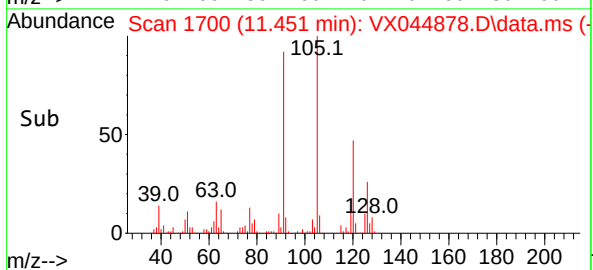
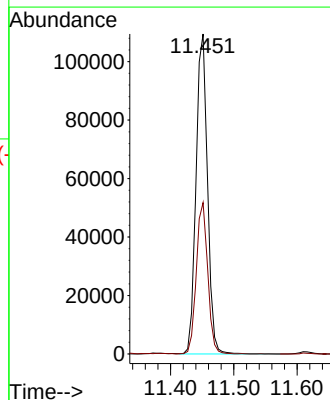
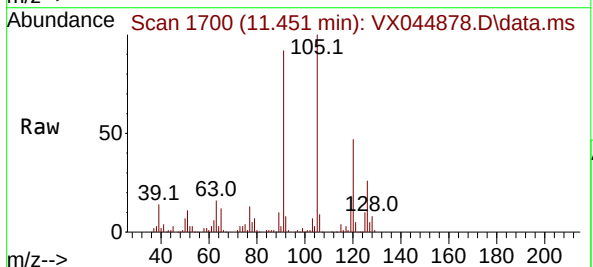
Acq: 10 Feb 2025 14:29

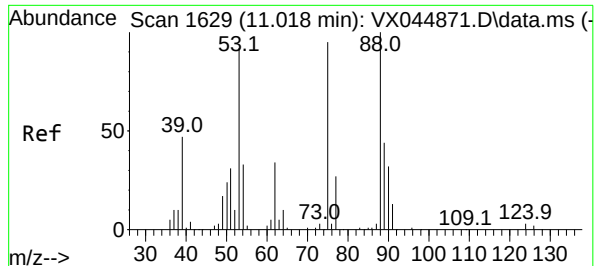
Tgt Ion:105 Resp: 138168

Ion Ratio Lower Upper

105 100

120 47.3 24.0 72.0





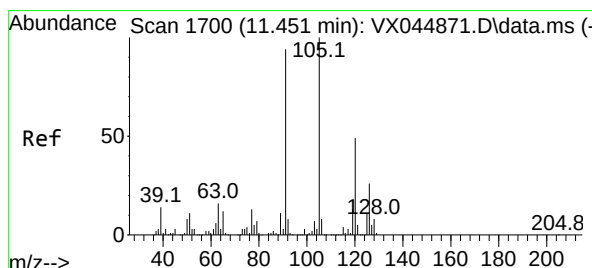
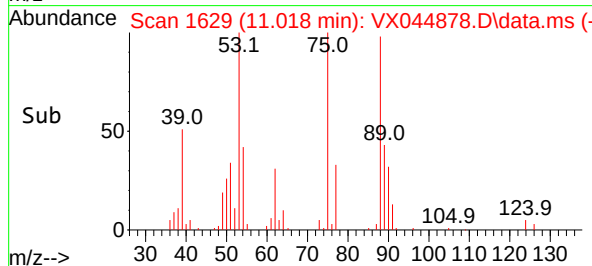
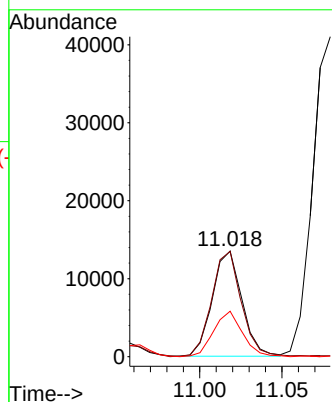
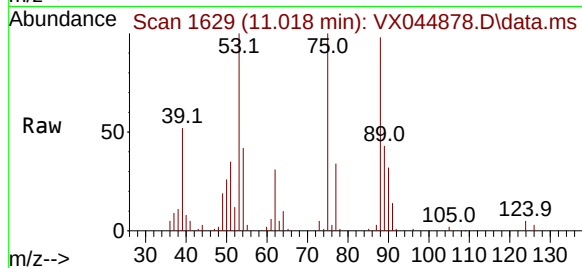
#81
trans-1,4-Dichloro-2-butene
Concen: 18.992 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
VX0210WBS01

Tgt Ion: 75 Resp: 16892
Ion Ratio Lower Upper
75 100
53 102.2 78.0 117.0
89 42.4 36.6 54.8

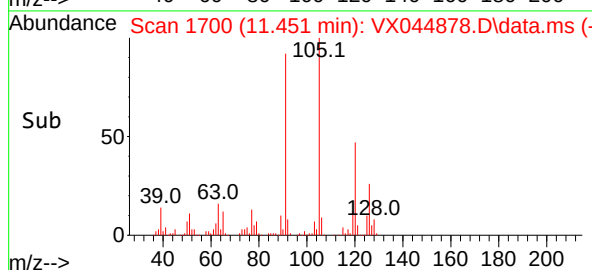
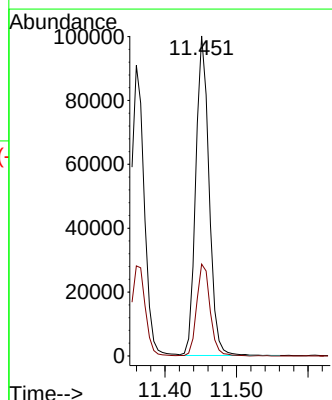
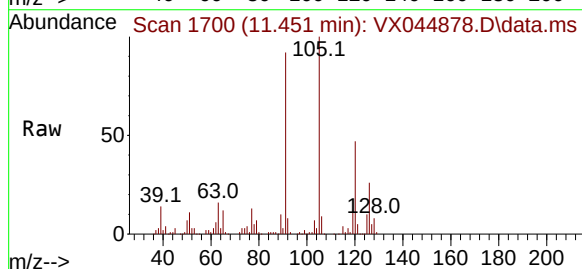
Manual Integrations
APPROVED

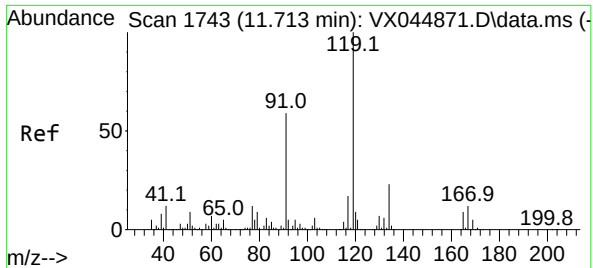
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#82
4-Chlorotoluene
Concen: 19.780 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

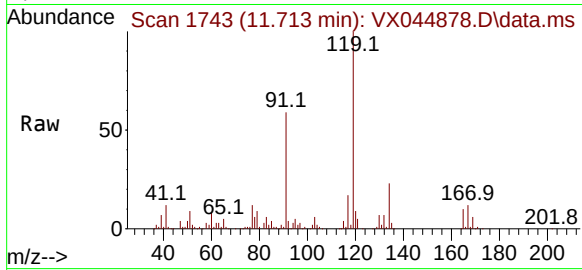
Tgt Ion: 91 Resp: 128990
Ion Ratio Lower Upper
91 100
126 29.1 14.2 42.6





#83
tert-Butylbenzene
Concen: 19.861 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

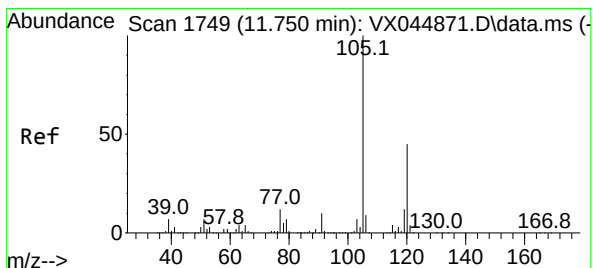
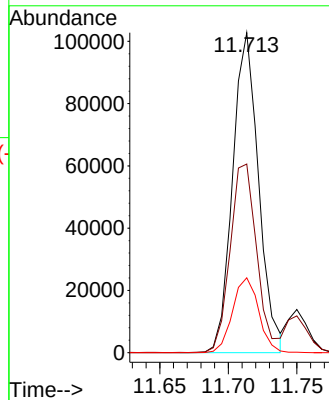
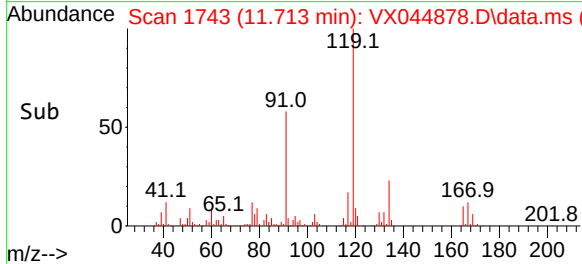
Instrument :
MSVOA_X
ClientSampleId :
VX0210WBS01



Tgt Ion:119 Resp: 135479
Ion Ratio Lower Upper
119 100
91 59.5 29.1 87.4
134 23.6 11.5 34.5

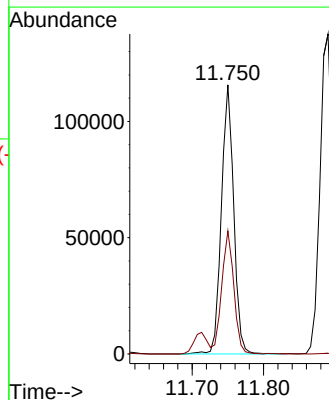
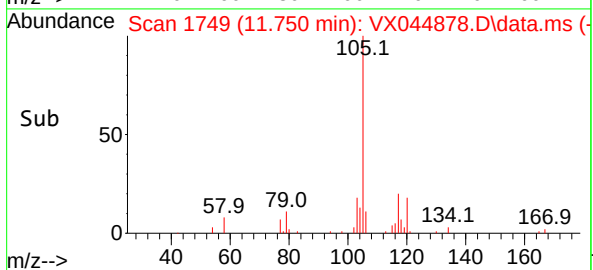
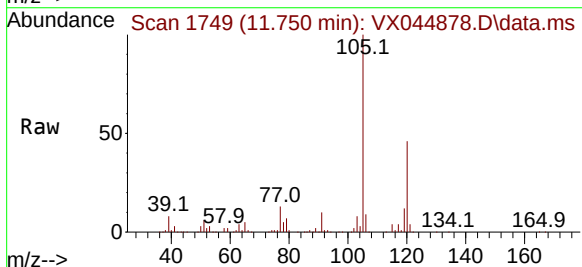
Manual Integrations
APPROVED

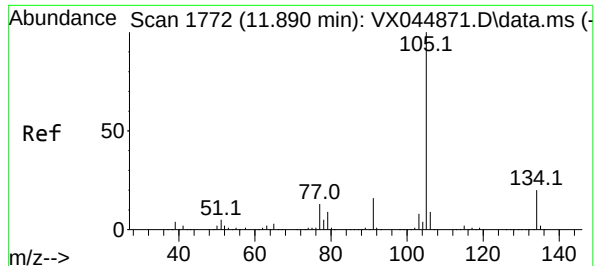
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#84
1,2,4-Trimethylbenzene
Concen: 20.836 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

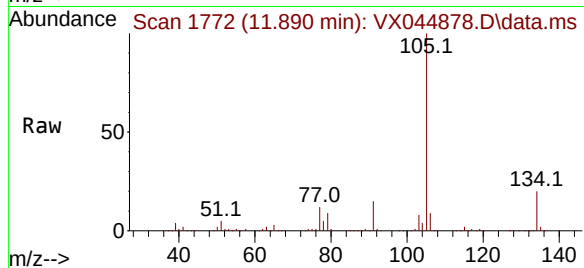
Tgt Ion:105 Resp: 138666
Ion Ratio Lower Upper
105 100
120 44.9 22.4 67.0





#85
sec-Butylbenzene
Concen: 20.484 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

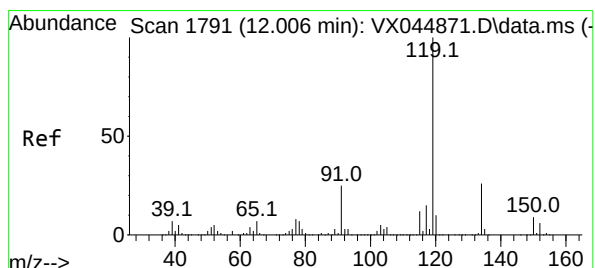
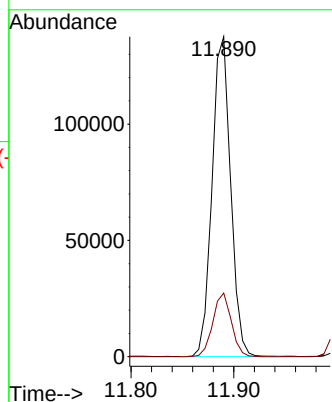
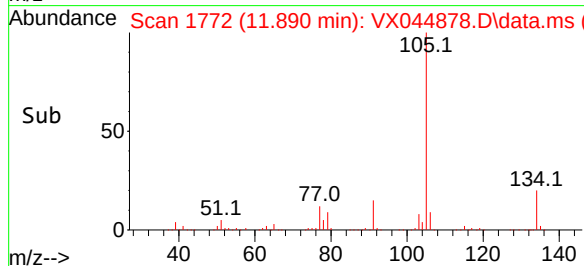
Instrument :
MSVOA_X
ClientSampleId :
VX0210WBS01



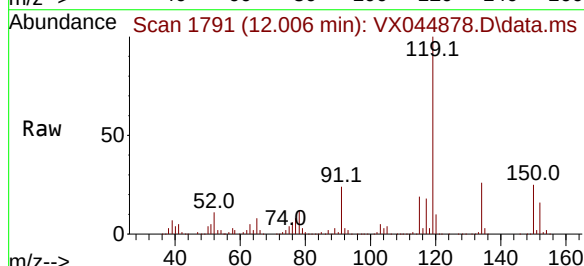
Tgt Ion:105 Resp: 173020
Ion Ratio Lower Upper
105 100
134 19.7 9.8 29.3

Manual Integrations
APPROVED

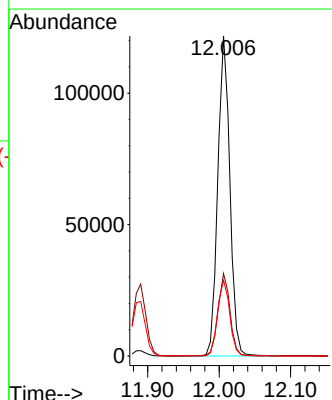
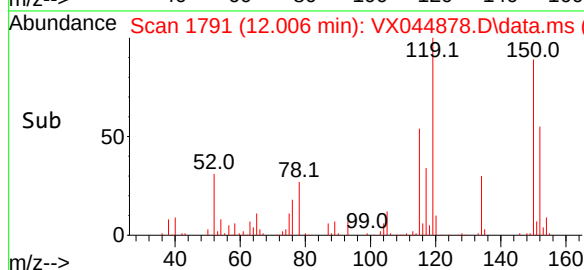
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

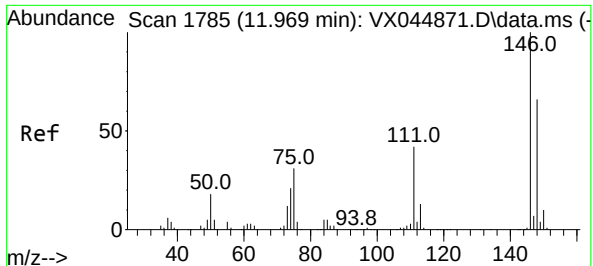


#86
p-Isopropyltoluene
Concen: 20.926 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29



Tgt Ion:119 Resp: 142146
Ion Ratio Lower Upper
119 100
134 25.3 13.0 38.9
91 24.2 12.1 36.3





#87

1,3-Dichlorobenzene

Concen: 19.641 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01

Tgt Ion:146 Resp: 6804

Ion Ratio Lower Upper

146 100

111 43.1 21.2 63.6

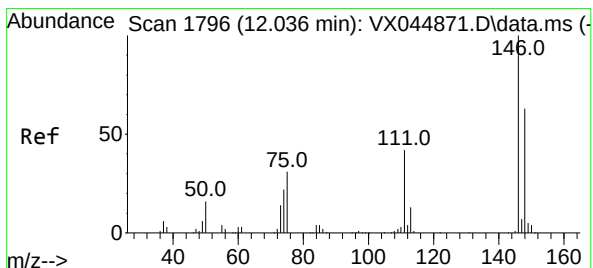
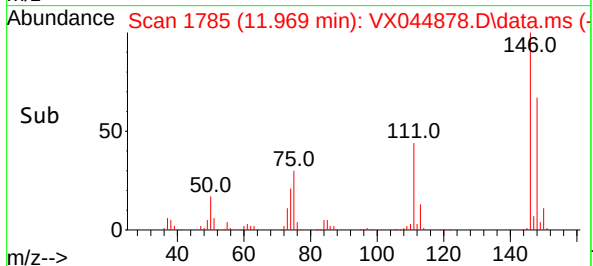
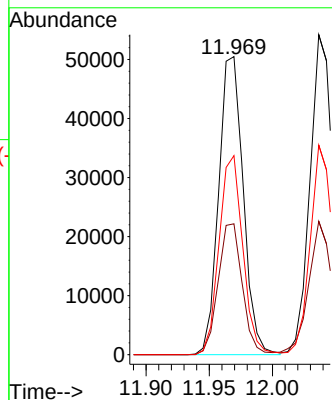
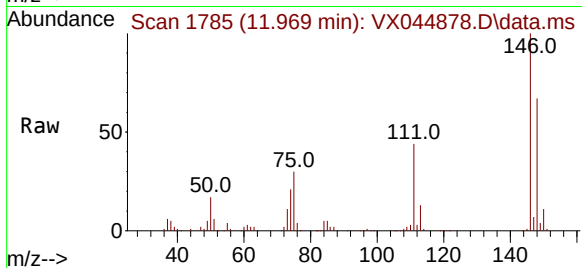
148 64.7 32.5 97.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#88

1,4-Dichlorobenzene

Concen: 19.883 ug/l

RT: 12.037 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

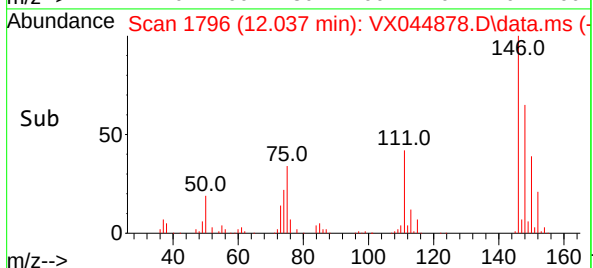
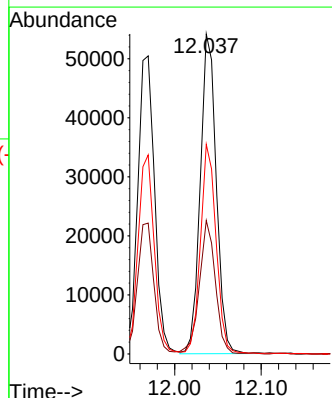
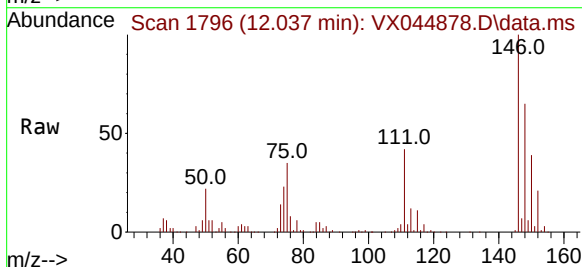
Tgt Ion:146 Resp: 69642

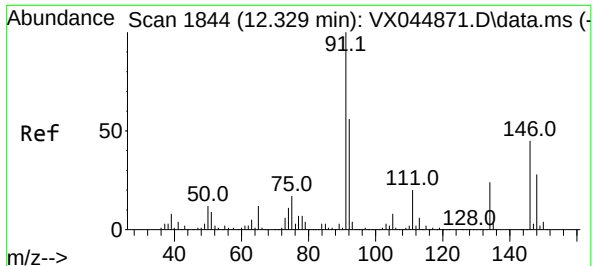
Ion Ratio Lower Upper

146 100

111 41.3 20.4 61.3

148 63.9 32.0 96.0





#89

n-Butylbenzene

Concen: 21.069 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01

Tgt Ion: 91 Resp: 12661

Ion Ratio Lower Upper

91 100

92 54.5 27.2 81.6

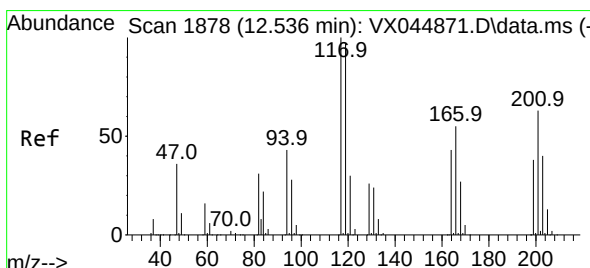
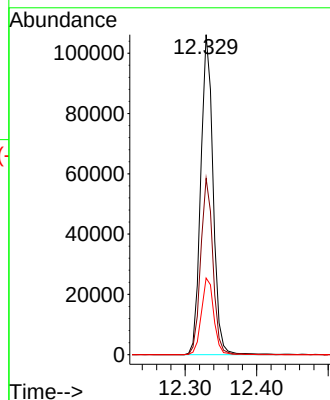
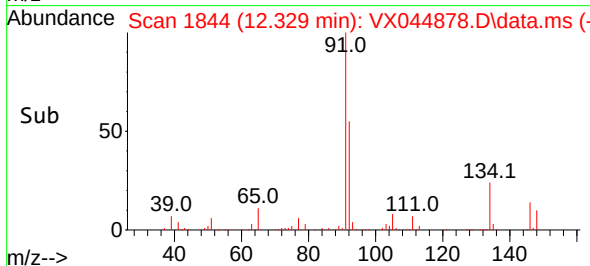
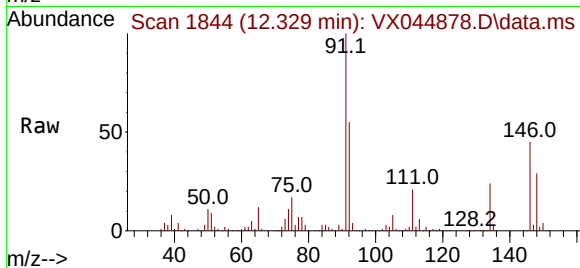
134 24.3 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#90

Hexachloroethane

Concen: 19.296 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX044878.D

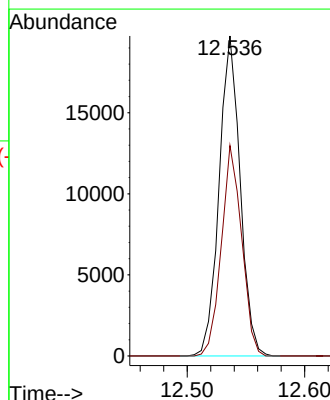
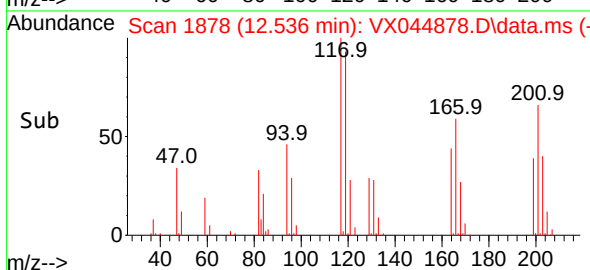
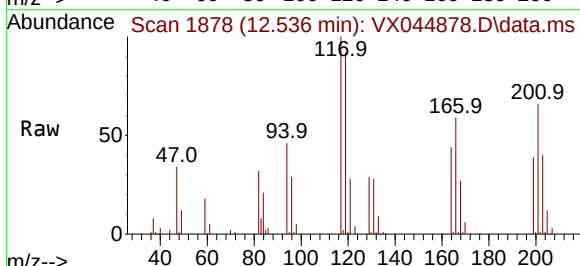
Acq: 10 Feb 2025 14:29

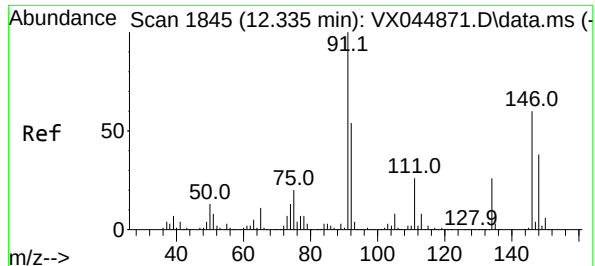
Tgt Ion:117 Resp: 24543

Ion Ratio Lower Upper

117 100

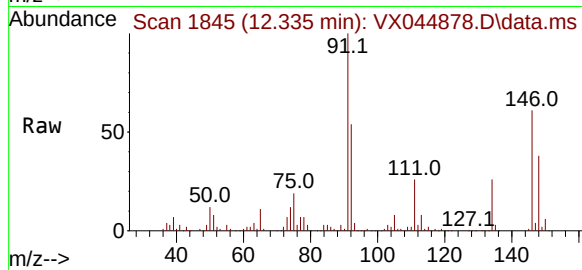
201 63.6 32.5 97.5





#91
1,2-Dichlorobenzene
Concen: 20.283 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

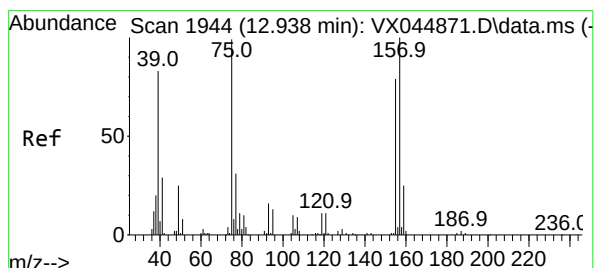
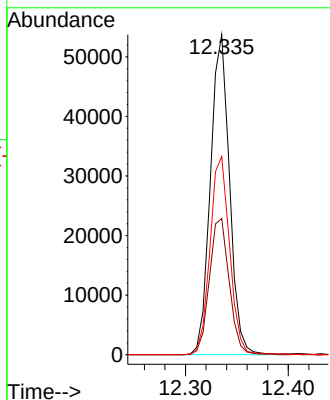
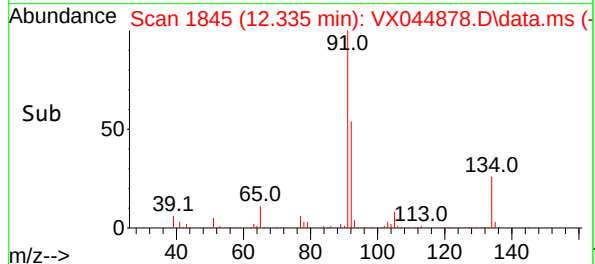
Instrument :
MSVOA_X
ClientSampleId :
VX0210WBS01



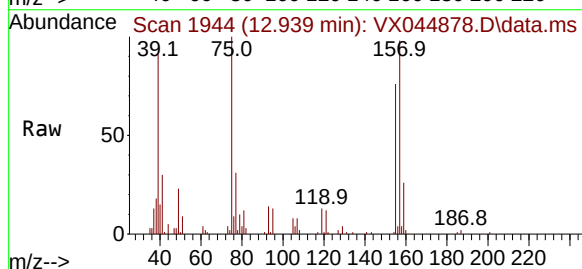
Tgt Ion:146 Resp: 69050
Ion Ratio Lower Upper
146 100
111 44.4 21.8 65.4
148 63.7 31.9 95.9

Manual Integrations
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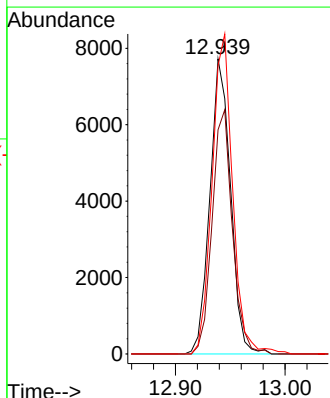
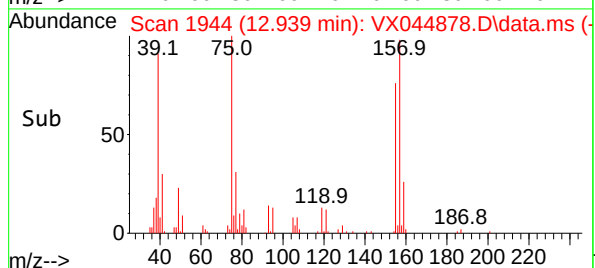
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

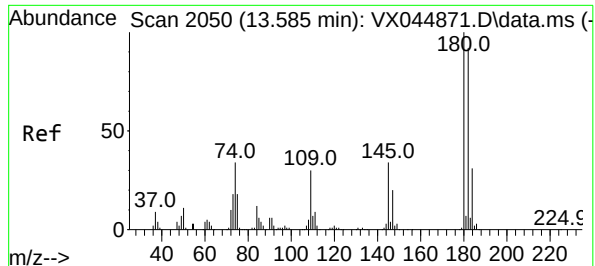


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.420 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29



Tgt Ion: 75 Resp: 10120
Ion Ratio Lower Upper
75 100
155 81.4 40.5 121.4
157 108.0 51.4 154.3





#93

1,2,4-Trichlorobenzene

Concen: 19.516 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBS01

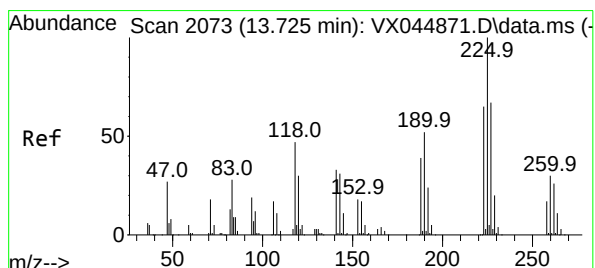
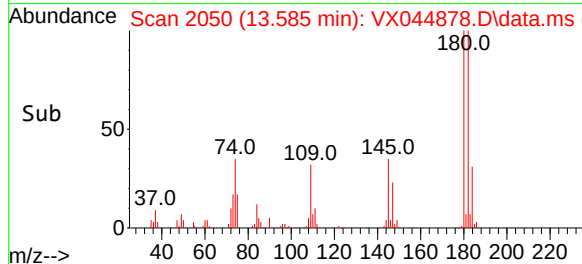
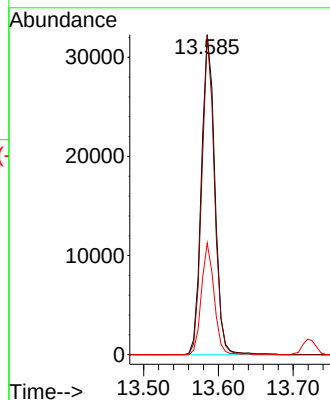
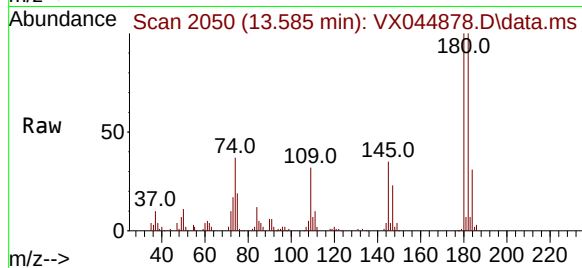
Tgt Ion:	180	Resp:	4020
Ion Ratio	Lower	Upper	
180	100		
182	94.7	47.6	142.8
145	32.9	16.4	49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#94

Hexachlorobutadiene

Concen: 20.065 ug/l

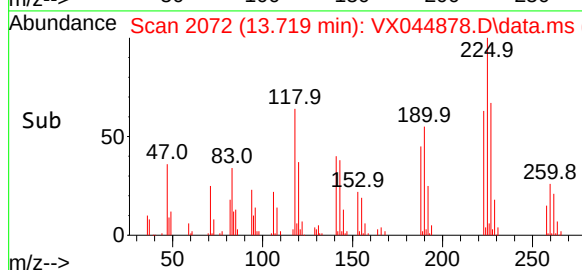
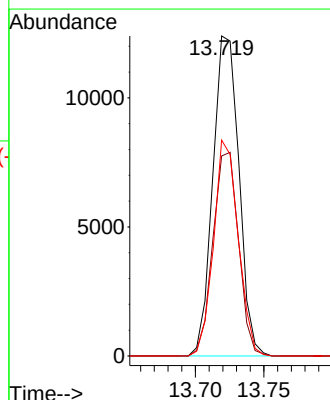
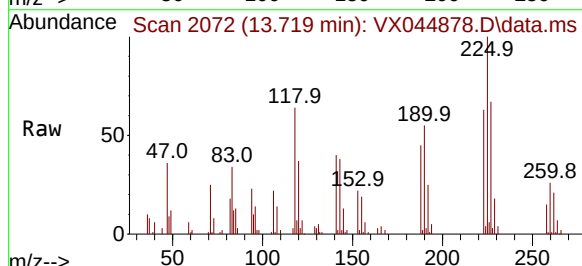
RT: 13.719 min Scan# 2072

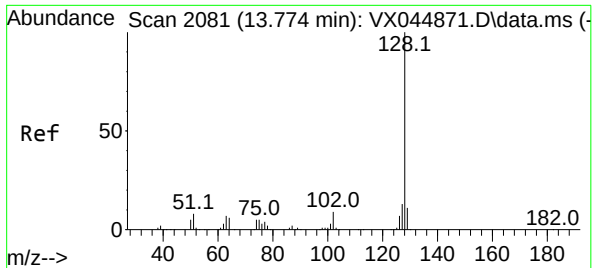
Delta R.T. -0.006 min

Lab File: VX044878.D

Acq: 10 Feb 2025 14:29

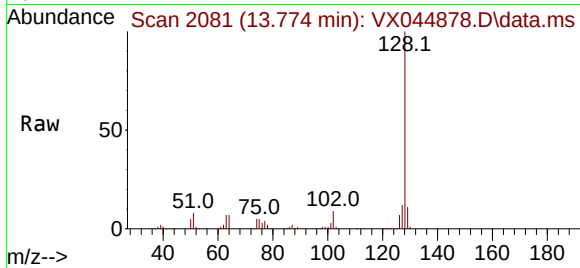
Tgt Ion:	225	Resp:	16410
Ion Ratio	Lower	Upper	
225	100		
223	62.5	31.4	94.2
227	63.4	32.3	96.8





#95
Naphthalene
Concen: 19.959 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29

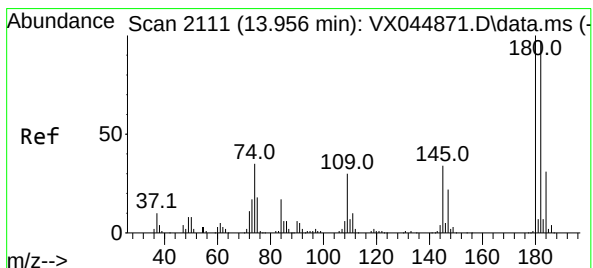
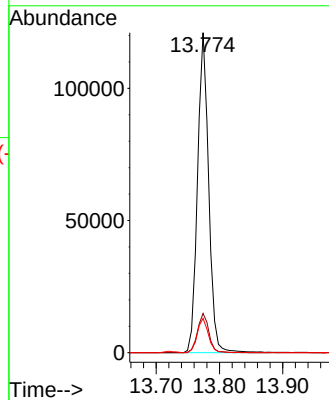
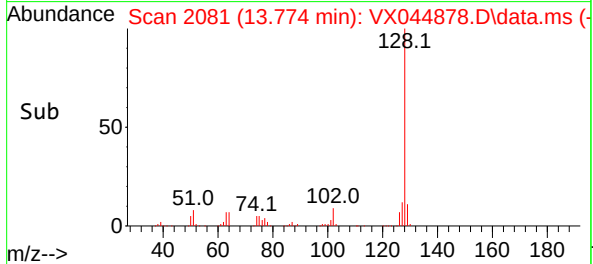
Instrument :
MSVOA_X
ClientSampleId :
VX0210WBS01



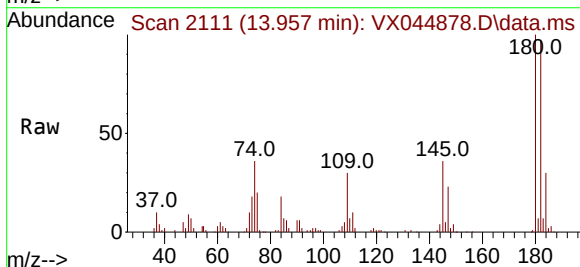
Tgt Ion:128 Resp: 14864
Ion Ratio Lower Upper
128 100
127 12.4 10.1 15.1
129 10.7 8.9 13.3

Manual Integrations
APPROVED

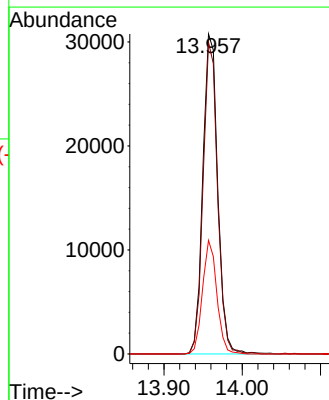
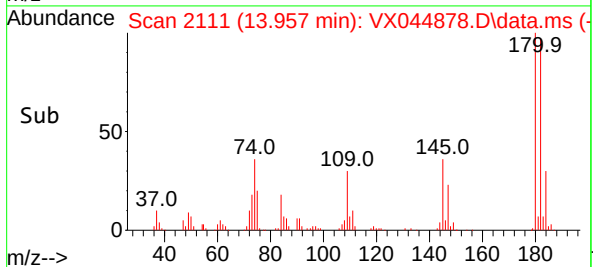
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#96
1,2,3-Trichlorobenzene
Concen: 19.579 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044878.D
Acq: 10 Feb 2025 14:29



Tgt Ion:180 Resp: 40645
Ion Ratio Lower Upper
180 100
182 94.3 47.9 143.6
145 34.1 17.1 51.3



Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	01/28/25	
Project:	CTO WE13			Date Received:	01/30/25	
Client Sample ID:	BP-VPB-192-GW-360-362MS			SDG No.:	Q1250	
Lab Sample ID:	Q1250-07MS			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044889.D	1		02/10/25 18:46	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	46.2		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	45.7		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	47.6		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	52.8		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	47.0		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	47.3		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	46.3		0.26	0.75	1.00	ug/L
67-64-1	Acetone	250		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	45.8		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	47.7		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	47.0		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	47.8		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	47.6		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	250		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	45.0		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	48.0		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	47.3		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	47.1		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	45.4		0.19	0.50	1.00	ug/L
71-43-2	Benzene	46.4		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	47.6		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	45.6		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	46.7		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	47.7		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	250		0.75	2.50	5.00	ug/L
108-88-3	Toluene	47.4		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	47.0		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	47.0		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	48.6		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	260		1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	01/28/25	
Project:	CTO WE13			Date Received:	01/30/25	
Client Sample ID:	BP-VPB-192-GW-360-362MS			SDG No.:	Q1250	
Lab Sample ID:	Q1250-07MS			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044889.D	1		02/10/25 18:46	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	47.6		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	45.5		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	46.6		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	47.0		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	93.5		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	46.7		0.14	0.50	1.00	ug/L
100-42-5	Styrene	47.9		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	47.4		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	47.0		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	47.1		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	46.0		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	45.2		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	47.5		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.8		81 - 118		102%	SPK: 50
1868-53-7	Dibromofluoromethane	49.0		80 - 119		98%	SPK: 50
2037-26-5	Toluene-d8	49.5		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	123000	5.55				
540-36-3	1,4-Difluorobenzene	231000	6.757				
3114-55-4	Chlorobenzene-d5	204000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	88500	12.018				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044889.D
 Acq On : 10 Feb 2025 18:46
 Operator : JC/MD
 Sample : Q1250-07MS
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-192-GW-360-362MS

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 06:09:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	123128	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	231125	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	204212	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	88501	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	91481	50.756	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.520%			
35) Dibromofluoromethane	5.379	113	73700	49.045	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.100%			
50) Toluene-d8	8.647	98	281430	49.527	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.060%			
62) 4-Bromofluorobenzene	11.079	95	94372	49.264	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.520%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	82055	47.515	ug/l	97
3) Chloromethane	1.300	50	97167	46.230	ug/l	99
4) Vinyl Chloride	1.374	62	92976	45.661	ug/l	100
5) Bromomethane	1.593	94	28973	47.550	ug/l	95
6) Chloroethane	1.666	64	41241	52.759	ug/l	98
7) Trichlorofluoromethane	1.867	101	120967	46.977	ug/l	99
8) Diethyl Ether	2.130	74	43276	46.341	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	73586	47.298	ug/l	100
10) Methyl Iodide	2.440	142	97201	48.206	ug/l	98
11) Tert butyl alcohol	2.983	59	70091	209.621	ug/l	100
12) 1,1-Dichloroethene	2.312	96	73481	46.301	ug/l	97
13) Acrolein	2.233	56	90591	262.593	ug/l	100
14) Allyl chloride	2.654	41	132478	46.189	ug/l	99
15) Acrylonitrile	3.062	53	224566	251.541	ug/l	98
16) Acetone	2.386	43	177729	245.289	ug/l	99
17) Carbon Disulfide	2.501	76	199495	45.841	ug/l	99
18) Methyl Acetate	2.703	43	110048	48.130	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	240895	47.708	ug/l	99
20) Methylene Chloride	2.782	84	83479	47.037	ug/l	99
21) trans-1,2-Dichloroethene	3.087	96	74671	47.806	ug/l	97
22) Diisopropyl ether	3.757	45	264679	48.778	ug/l	96
23) Vinyl Acetate	3.715	43	1057596	239.073	ug/l	100
24) 1,1-Dichloroethane	3.605	63	144670	47.649	ug/l	99
25) 2-Butanone	4.556	43	296198	251.748	ug/l	96
26) 2,2-Dichloropropane	4.464	77	103746	43.088	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	89974	47.956	ug/l	97
28) Bromochloromethane	4.891	49	65142	44.645	ug/l	100
29) Tetrahydrofuran	5.001	42	197129	252.319	ug/l	99
30) Chloroform	5.086	83	139323	47.317	ug/l	99
31) Cyclohexane	5.458	56	128869	46.040	ug/l	96
32) 1,1,1-Trichloroethane	5.373	97	117591	47.083	ug/l	99
36) 1,1-Dichloropropene	5.684	75	96760	44.631	ug/l	99
37) Ethyl Acetate	4.708	43	112772	46.766	ug/l	100
38) Carbon Tetrachloride	5.672	117	95680	45.036	ug/l	97
39) Methylcyclohexane	7.372	83	127250	45.400	ug/l	98
40) Benzene	6.031	78	314324	46.431	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044889.D
 Acq On : 10 Feb 2025 18:46
 Operator : JC/MD
 Sample : Q1250-07MS
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-192-GW-360-362MS

Manual Integrations
 APPROVED

Reviewed By :John Carlone 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 06:09:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	65634	50.850	ug/l	99
42) 1,2-Dichloroethane	6.080	62	102669	47.585	ug/l	99
43) Isopropyl Acetate	6.336	43	187385	48.121	ug/l	100
44) Trichloroethene	7.123	130	70570	45.606	ug/l	98
45) 1,2-Dichloropropane	7.427	63	78734	46.748	ug/l	98
46) Dibromomethane	7.580	93	54702	46.834	ug/l	99
47) Bromodichloromethane	7.818	83	107934	47.725	ug/l	99
48) Methyl methacrylate	7.689	41	89926	48.977	ug/l	99
49) 1,4-Dioxane	7.665	88	31394	796.936	ug/l	99
51) 4-Methyl-2-Pentanone	8.573	43	601696	254.162	ug/l	100
52) Toluene	8.714	92	191243	47.434	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	107616	47.022	ug/l	98
54) cis-1,3-Dichloropropene	8.360	75	119963	47.013	ug/l	97
55) 1,1,2-Trichloroethane	9.147	97	75399	48.649	ug/l	99
56) Ethyl methacrylate	9.116	69	123989	49.533	ug/l	99
57) 1,3-Dichloropropane	9.305	76	129127	47.617	ug/l	100
59) 2-Hexanone	9.427	43	437808	256.671	ug/l	98
60) Dibromochloromethane	9.518	129	78936	47.623	ug/l	100
61) 1,2-Dibromoethane	9.604	107	76055	48.416	ug/l	98
64) Tetrachloroethene	9.268	164	58587	45.492	ug/l	98
65) Chlorobenzene	10.073	112	204531	46.631	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	65870	46.658	ug/l	99
67) Ethyl Benzene	10.189	91	363594	46.975	ug/l	100
68) m/p-Xylenes	10.299	106	266906	93.479	ug/l	99
69) o-Xylene	10.640	106	133718	46.673	ug/l	100
70) Styrene	10.652	104	221197	47.922	ug/l	99
71) Bromoform	10.799	173	49913	47.374	ug/l #	100
73) Isopropylbenzene	10.957	105	334595	46.954	ug/l	99
74) N-amyl acetate	10.841	43	157343	48.794	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.207	83	115362	47.112	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	93822m	47.815	ug/l	
77) Bromobenzene	11.195	156	77066	47.702	ug/l	100
78) n-propylbenzene	11.299	91	390455	47.471	ug/l	100
79) 2-Chlorotoluene	11.360	91	233573	46.206	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	271315	46.918	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	35083	45.993	ug/l	98
82) 4-Chlorotoluene	11.451	91	263946	47.195	ug/l	100
83) tert-Butylbenzene	11.713	119	273377	46.731	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	272720	47.783	ug/l	100
85) sec-Butylbenzene	11.890	105	340583	47.015	ug/l	99
86) p-Isopropyltoluene	12.006	119	272720	46.815	ug/l	99
87) 1,3-Dichlorobenzene	11.963	146	136636	45.991	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	135861	45.228	ug/l	99
89) n-Butylbenzene	12.329	91	240954	46.753	ug/l	100
90) Hexachloroethane	12.536	117	48519	44.480	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	138655	47.486	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	21828	48.842	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	79662	45.087	ug/l	98
94) Hexachlorobutadiene	13.725	225	28758	41.001	ug/l	97
95) Naphthalene	13.774	128	307033	48.072	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	81601	45.834	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044889.D
Acq On : 10 Feb 2025 18:46
Operator : JC/MD
Sample : Q1250-07MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 06:09:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

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

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

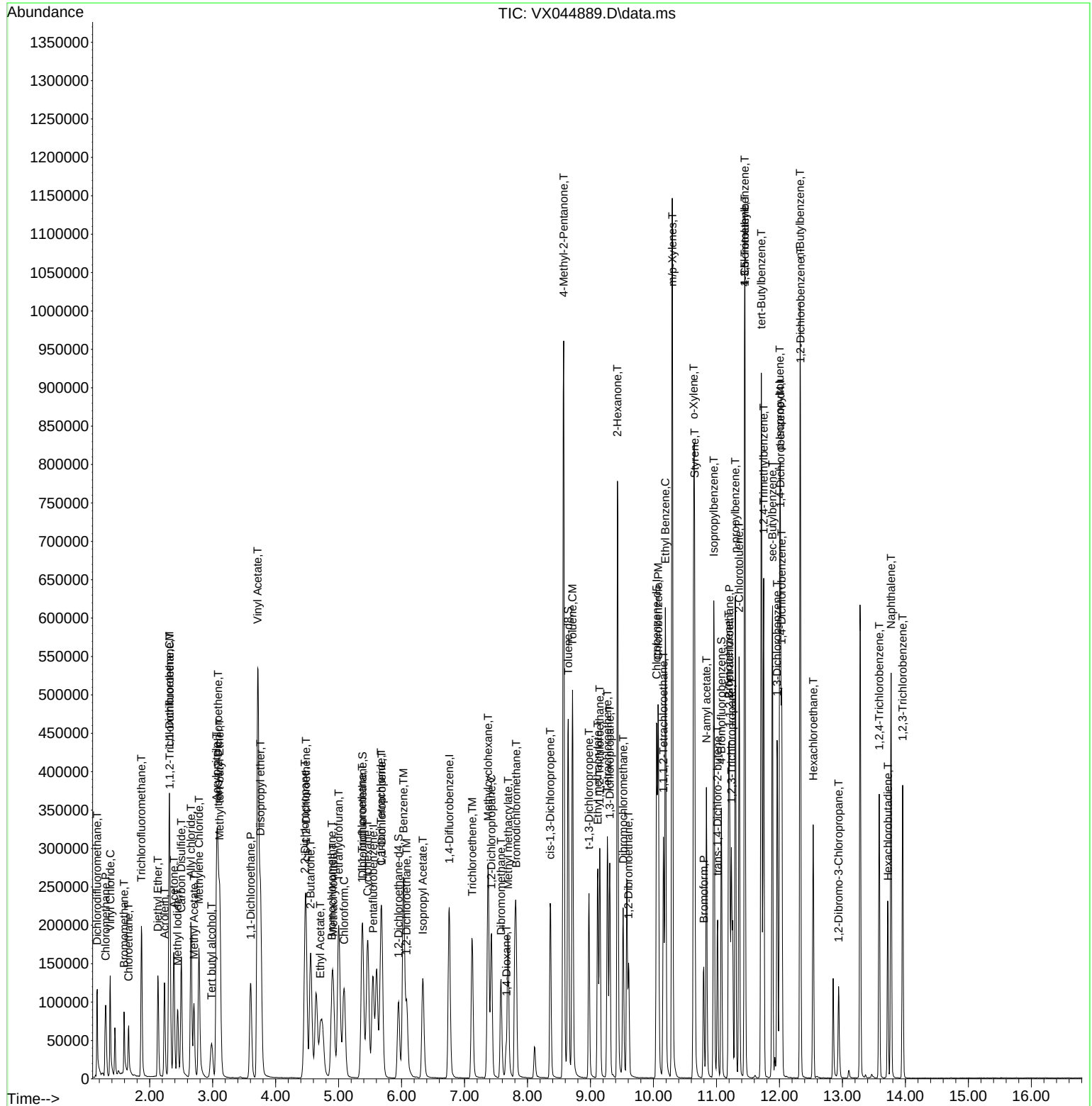
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044889.D
Acq On    : 10 Feb 2025   18:46
Operator  : JC/MD
Sample    : Q1250-07MS
Misc      : 5.0mL/MSVOA_X/WATER
ALS Vial  : 24   Sample Multiplier: 1
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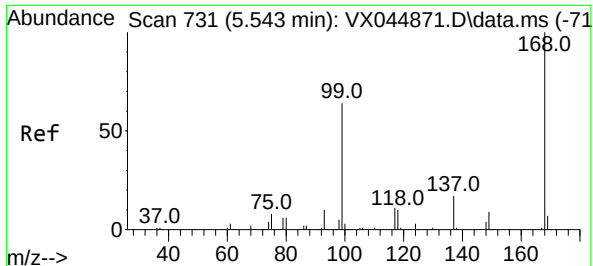
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MS

Manual Integrations

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

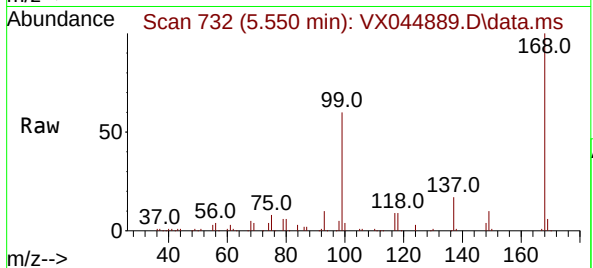
Quant Time: Feb 11 06:09:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 731
Delta R.T. 0.007 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

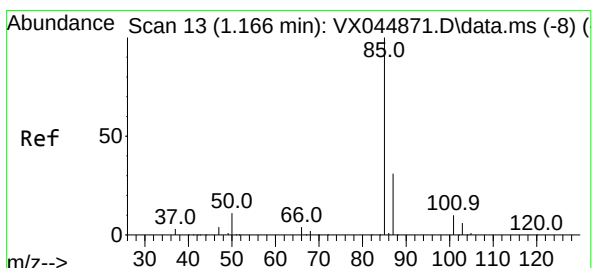
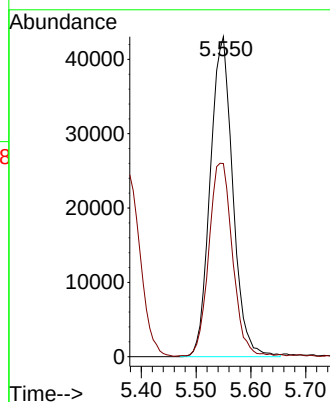
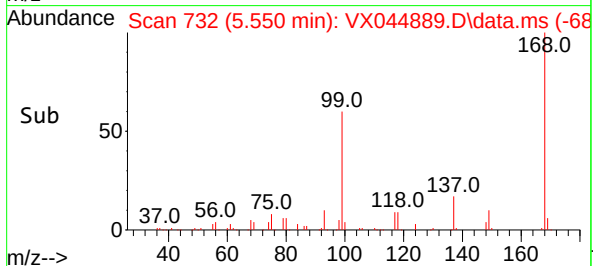
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MS



Tgt Ion:168 Resp: 123128
Ion Ratio Lower Upper
168 100
99 60.0 51.2 76.8

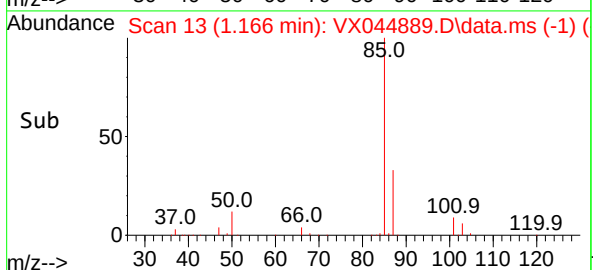
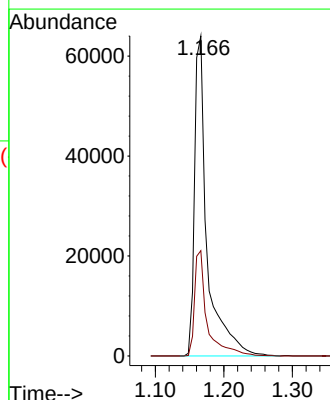
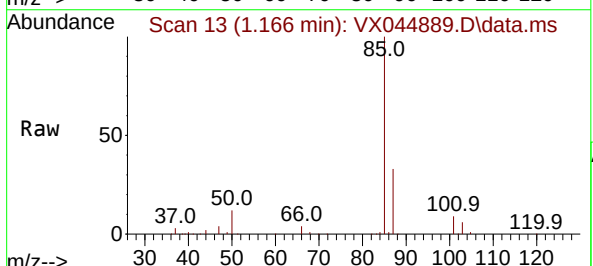
Manual Integrations
APPROVED

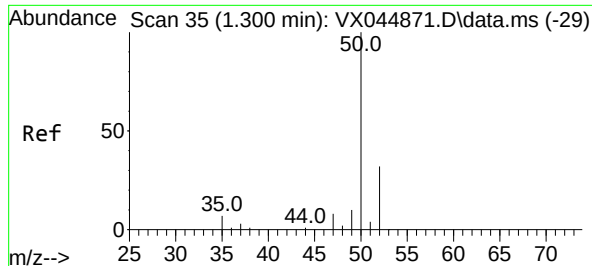
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#2
Dichlorodifluoromethane
Concen: 47.515 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

Tgt Ion: 85 Resp: 82055
Ion Ratio Lower Upper
85 100
87 32.9 15.8 47.3





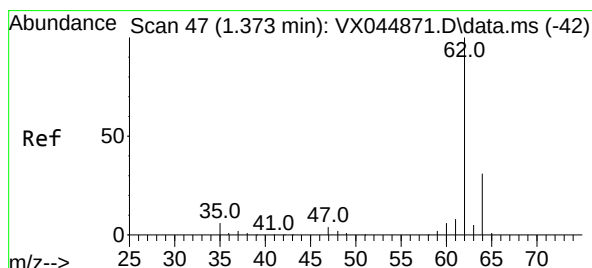
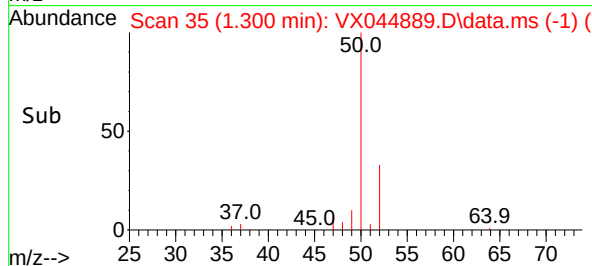
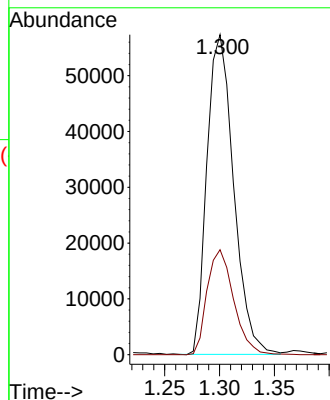
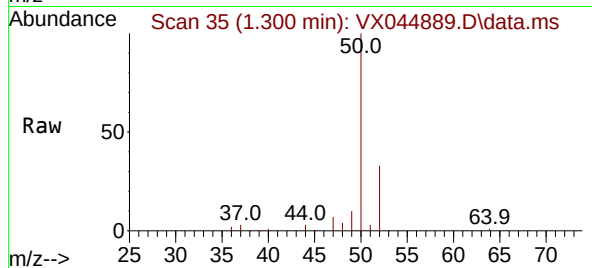
#3
Chloromethane
Concen: 46.230 ug/l
RT: 1.300 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MS

Tgt Ion: 50 Resp: 9716
Ion Ratio Lower Upper
50 100
52 32.8 25.9 38.9

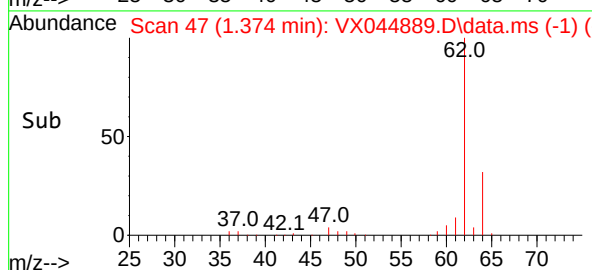
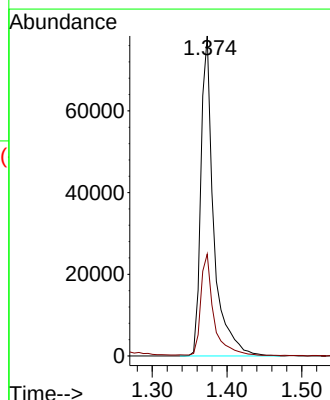
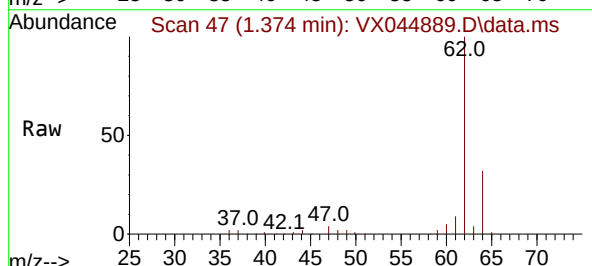
Manual Integrations
APPROVED

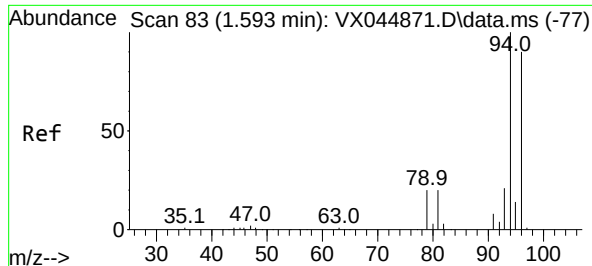
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#4
Vinyl Chloride
Concen: 45.661 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

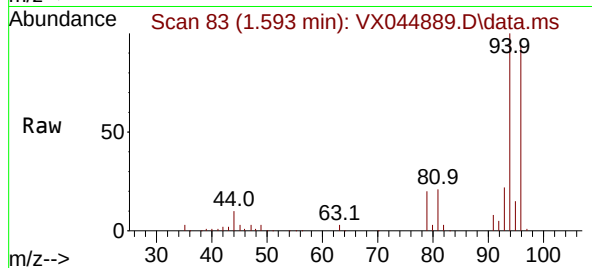
Tgt Ion: 62 Resp: 92976
Ion Ratio Lower Upper
62 100
64 31.7 25.4 38.0





#5
Bromomethane
Concen: 47.550 ug/l
RT: 1.593 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

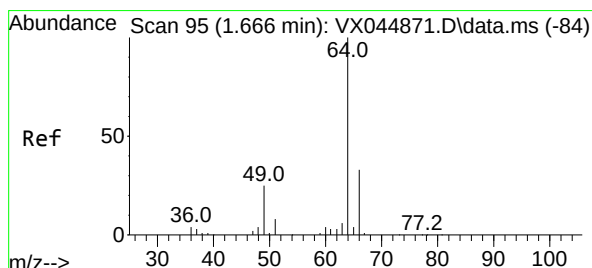
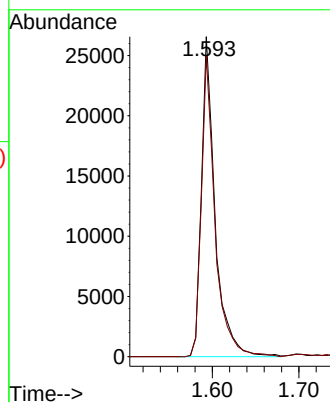
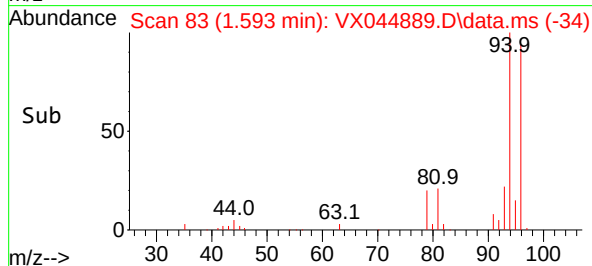
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MS



Tgt Ion: 94 Resp: 2897
Ion Ratio Lower Upper
94 100
96 94.0 71.6 107.4

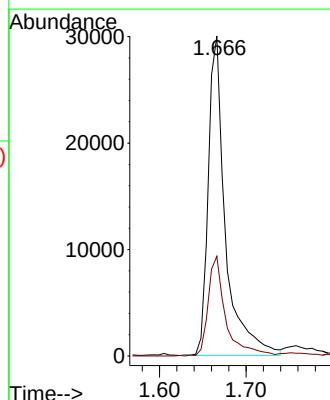
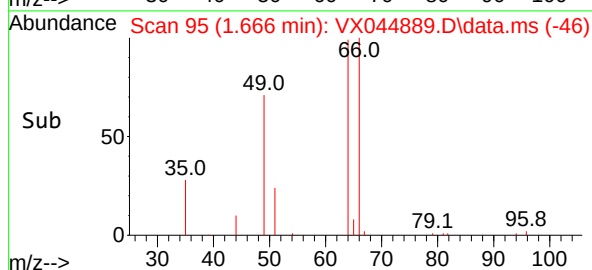
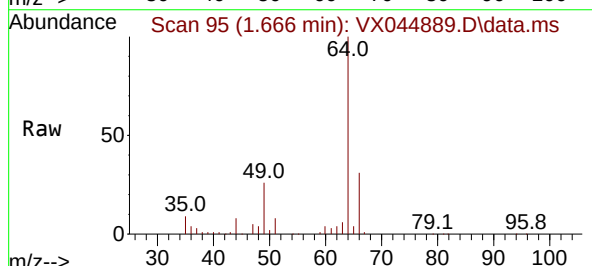
Manual Integrations
APPROVED

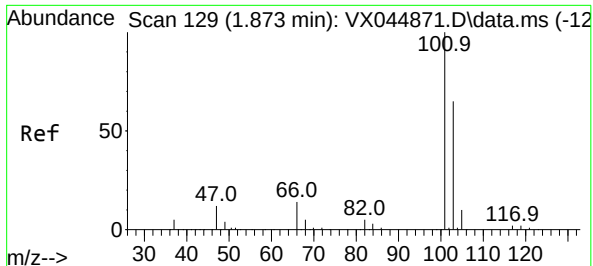
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#6
Chloroethane
Concen: 52.759 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

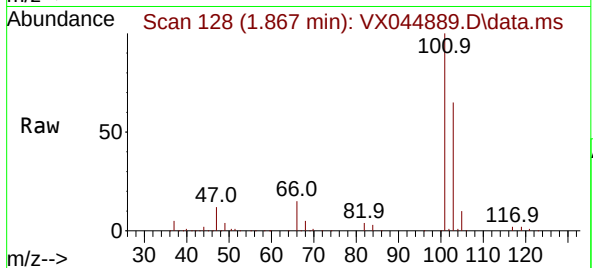
Tgt Ion: 64 Resp: 41241
Ion Ratio Lower Upper
64 100
66 31.0 25.9 38.9





#7
Trichlorofluoromethane
Concen: 46.977 ug/l
RT: 1.867 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

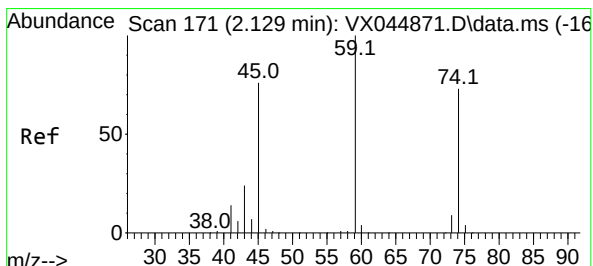
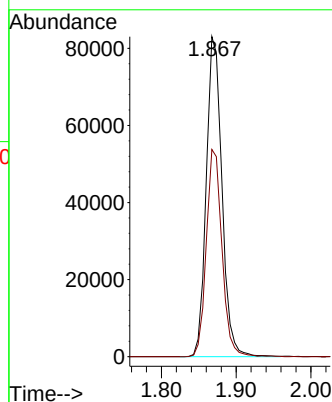
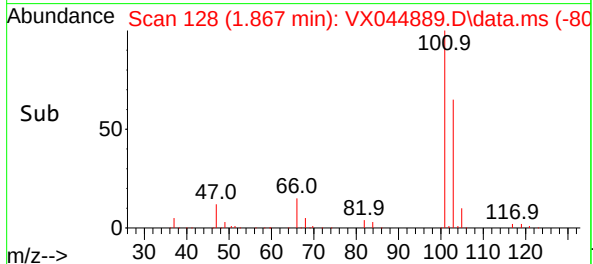
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MS



Tgt Ion:101 Resp: 12096
Ion Ratio Lower Upper
101 100
103 64.7 52.4 78.6

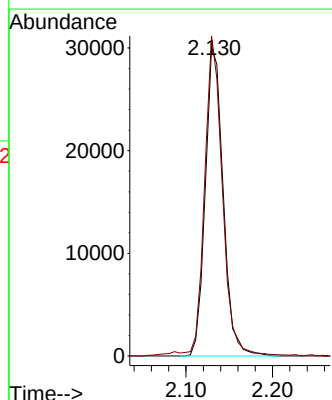
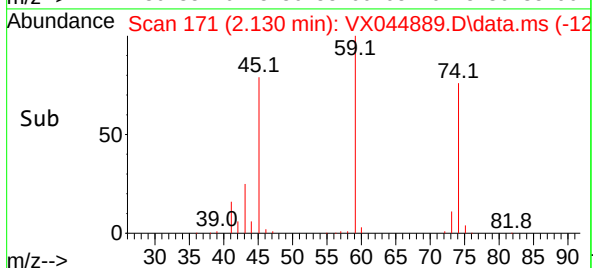
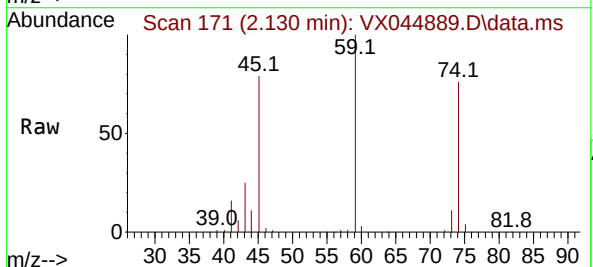
Manual Integrations
APPROVED

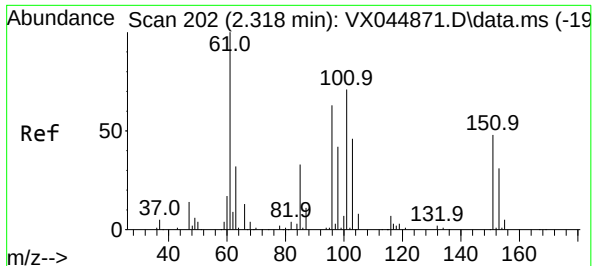
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#8
Diethyl Ether
Concen: 46.341 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.001 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

Tgt Ion: 74 Resp: 43276
Ion Ratio Lower Upper
74 100
45 103.6 51.1 153.4





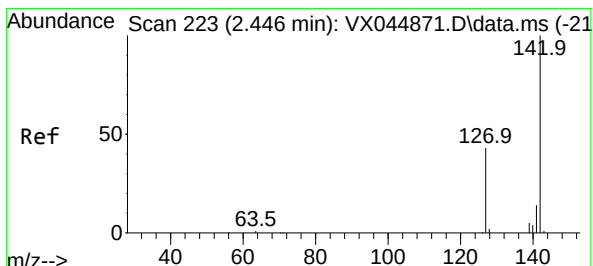
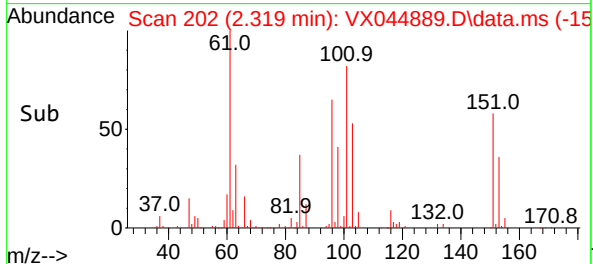
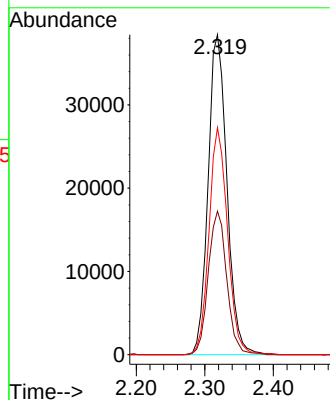
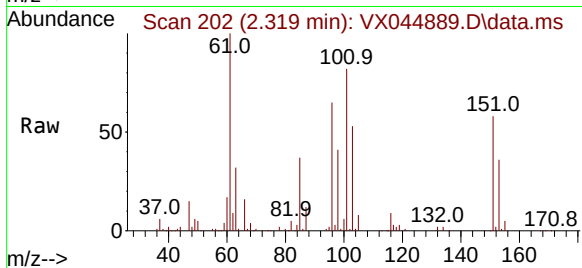
#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.298 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MS

Tgt Ion:101 Resp: 73580
Ion Ratio Lower Upper
101 100
85 44.1 35.7 53.5
151 69.9 56.0 84.0

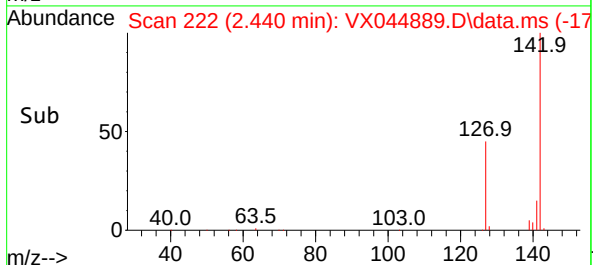
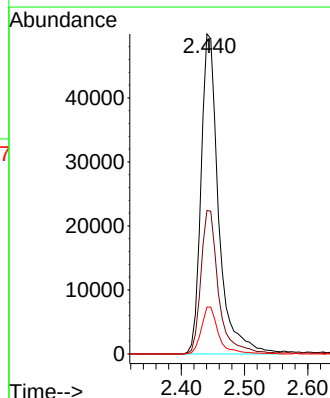
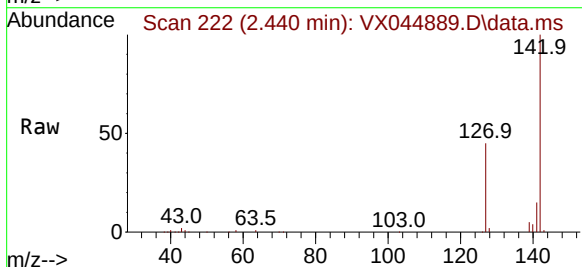
Manual Integrations
APPROVED

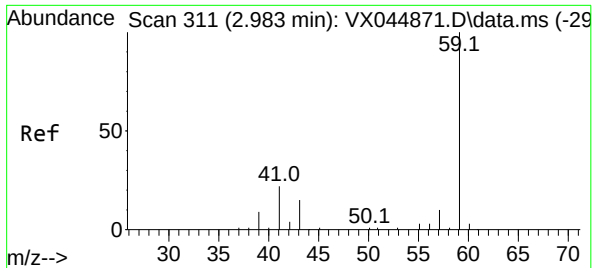
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#10
Methyl Iodide
Concen: 48.206 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

Tgt Ion:142 Resp: 97201
Ion Ratio Lower Upper
142 100
127 44.9 34.3 51.5
141 14.4 11.4 17.2





#11

Tert butyl alcohol

Concen: 209.621 ug/l

RT: 2.983 min Scan# 311

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion: 59 Resp: 7009

Ion Ratio Lower Upper

59 100

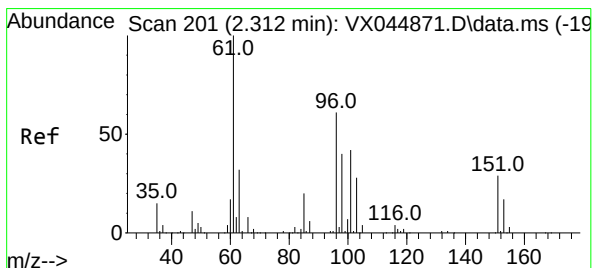
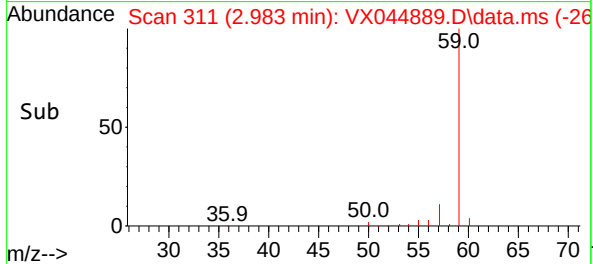
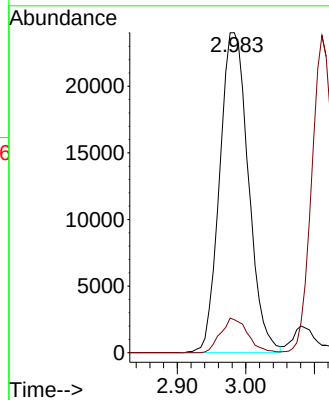
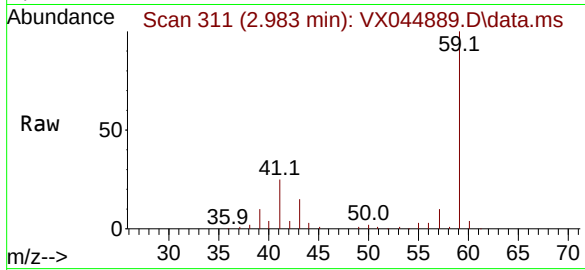
57 10.1 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#12

1,1-Dichloroethene

Concen: 46.301 ug/l

RT: 2.312 min Scan# 201

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

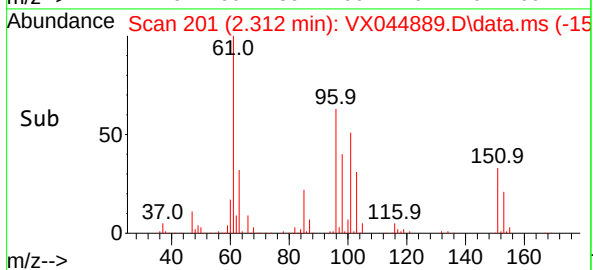
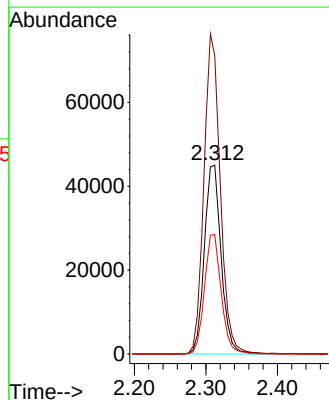
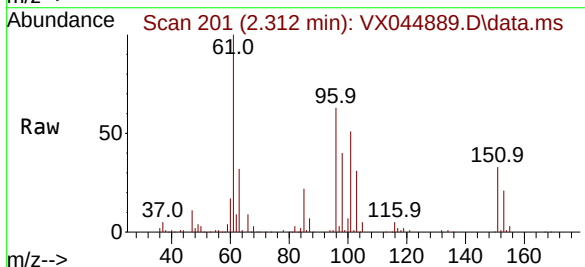
Tgt Ion: 96 Resp: 73481

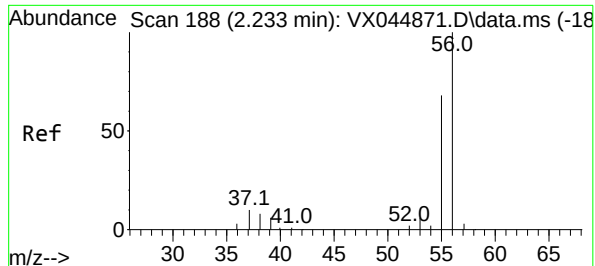
Ion Ratio Lower Upper

96 100

61 158.0 130.2 195.4

98 63.3 52.2 78.4





#13

Acrolein

Concen: 262.593 ug/l

RT: 2.233 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion: 56 Resp: 9059

Ion Ratio Lower Upper

56 100

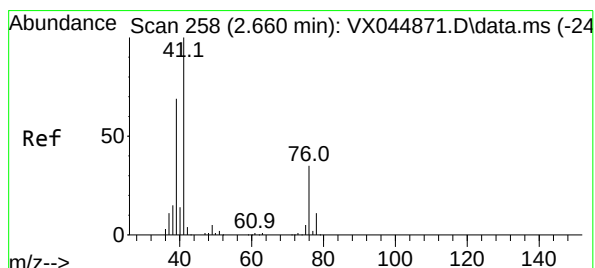
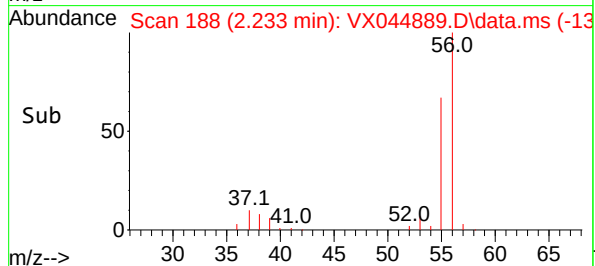
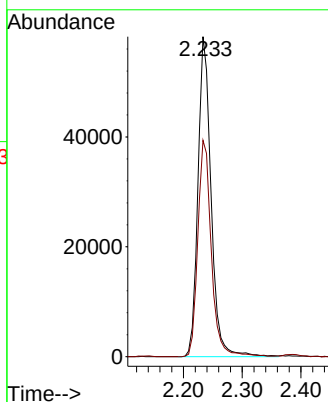
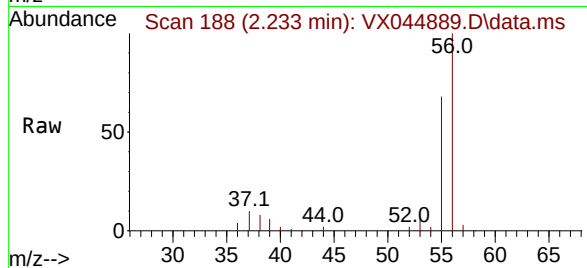
55 69.7 55.7 83.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#14

Allyl chloride

Concen: 46.189 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.006 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

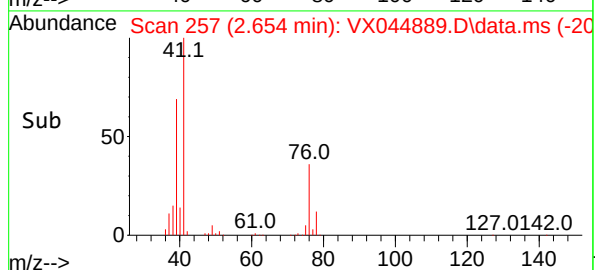
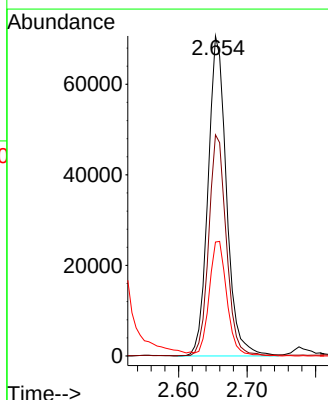
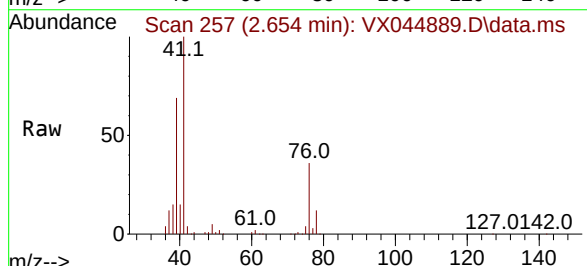
Tgt Ion: 41 Resp: 132478

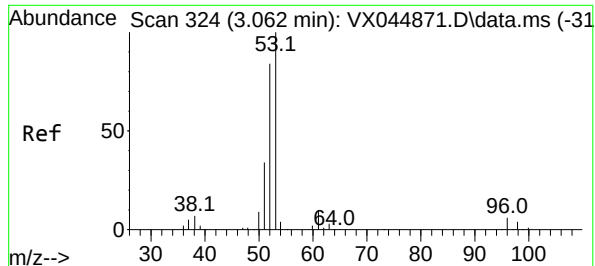
Ion Ratio Lower Upper

41 100

39 65.5 51.4 77.2

76 34.3 27.0 40.4





#15

Acrylonitrile

Concen: 251.541 ug/l

RT: 3.062 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044889.D

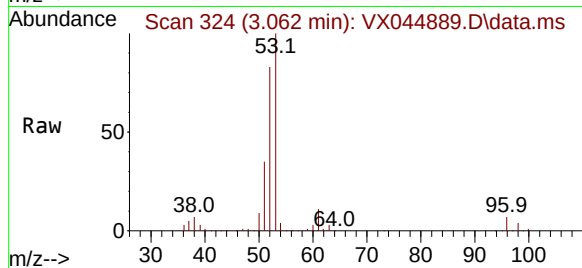
Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS



Tgt Ion: 53 Resp: 224560

Ion Ratio Lower Upper

53 100

52 83.1 65.0 97.6

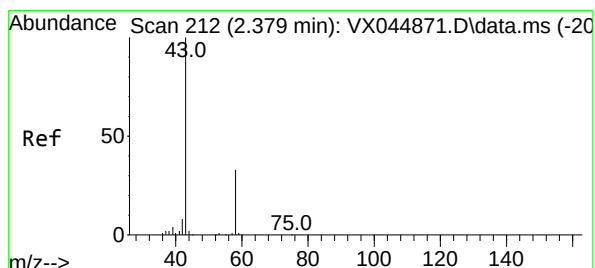
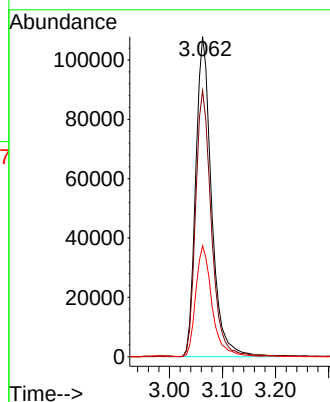
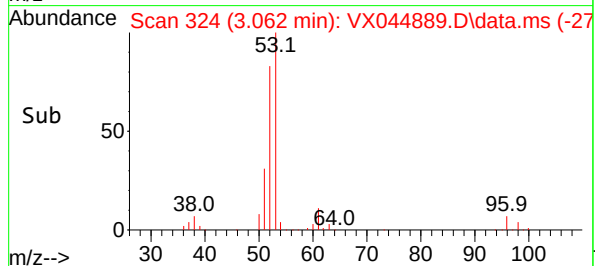
51 35.5 28.0 42.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#16

Acetone

Concen: 245.289 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.006 min

Lab File: VX044889.D

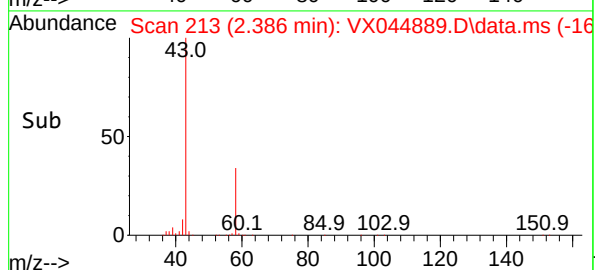
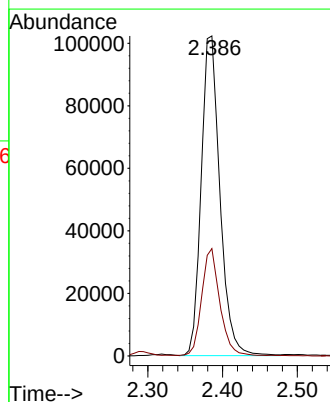
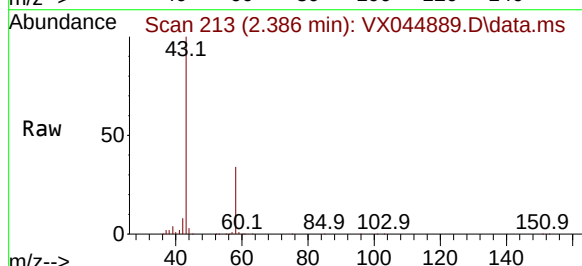
Acq: 10 Feb 2025 18:46

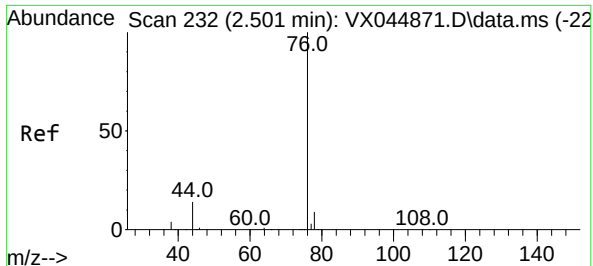
Tgt Ion: 43 Resp: 177729

Ion Ratio Lower Upper

43 100

58 33.4 26.5 39.7





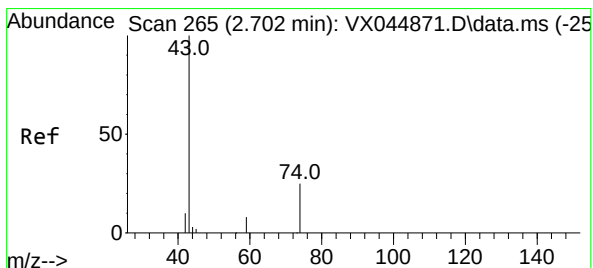
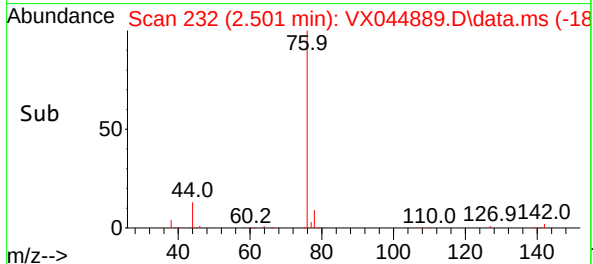
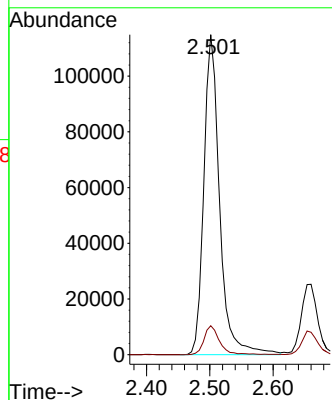
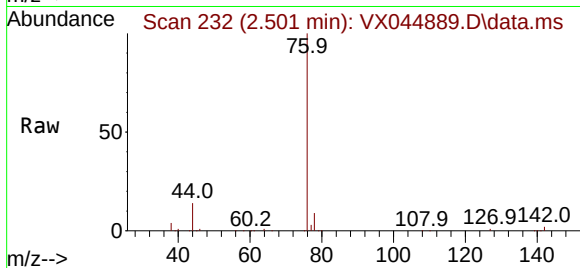
#17
Carbon Disulfide
Concen: 45.841 ug/l
RT: 2.501 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MS

Tgt Ion: 76 Resp: 19949
Ion Ratio Lower Upper
76 100
78 9.0 7.0 10.4

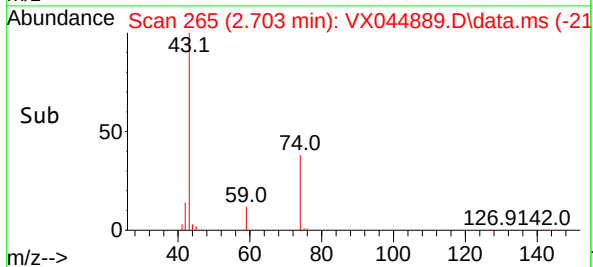
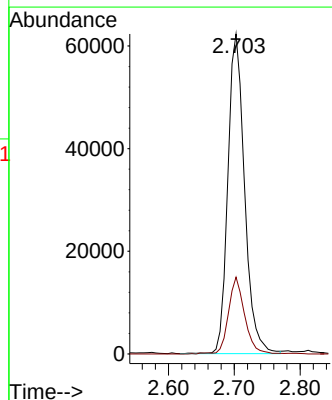
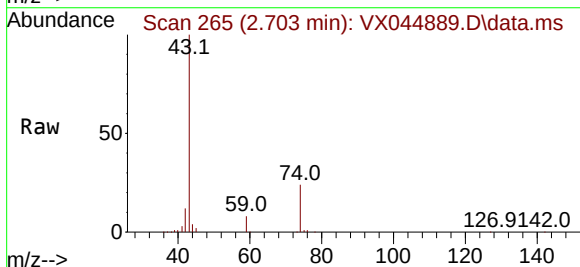
Manual Integrations
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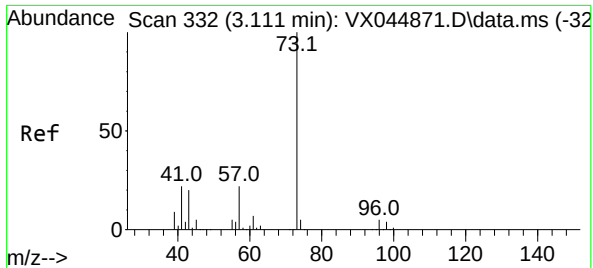
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#18
Methyl Acetate
Concen: 48.130 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

Tgt Ion: 43 Resp: 110048
Ion Ratio Lower Upper
43 100
74 23.4 18.9 28.3





#19

Methyl tert-butyl Ether

Concen: 47.708 ug/l

RT: 3.111 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion: 73 Resp: 24089

Ion Ratio Lower Upper

73 100

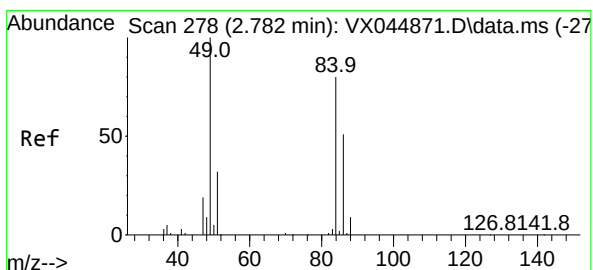
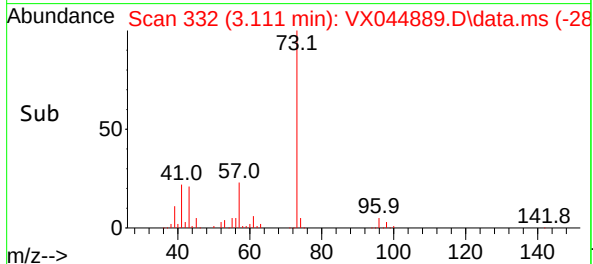
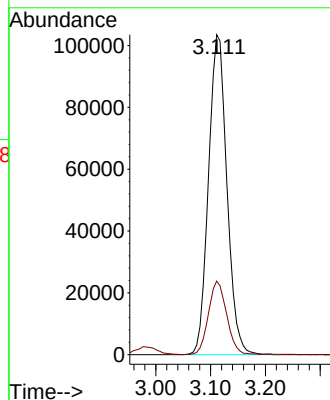
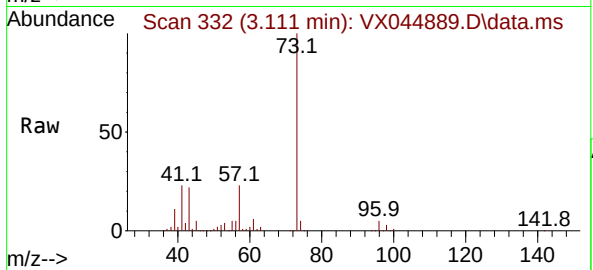
57 23.0 17.9 26.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#20

Methylene Chloride

Concen: 47.037 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Tgt Ion: 84 Resp: 83479

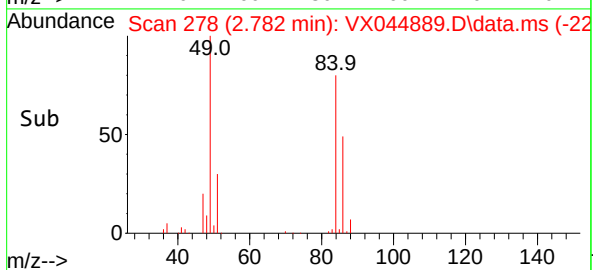
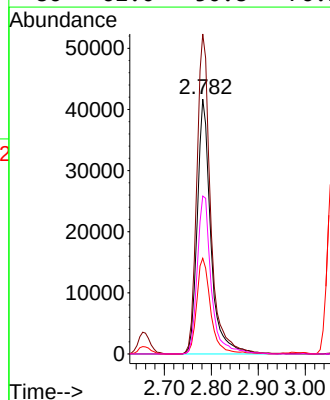
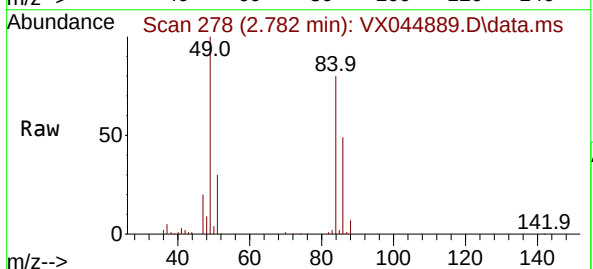
Ion Ratio Lower Upper

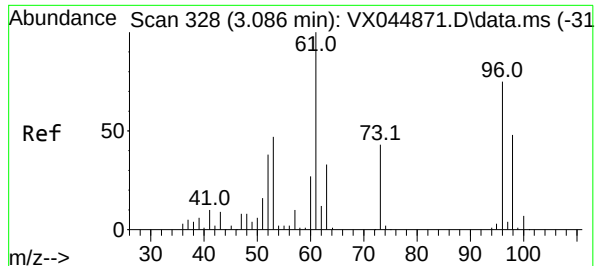
84 100

49 125.6 100.1 150.1

51 37.5 31.7 47.5

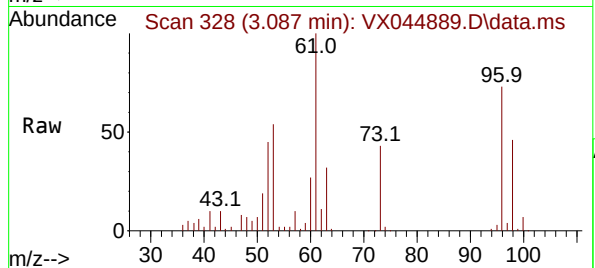
86 62.0 50.8 76.2





#21
trans-1,2-Dichloroethene
Concen: 47.806 ug/l
RT: 3.087 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

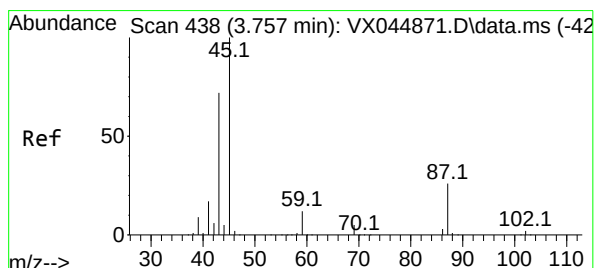
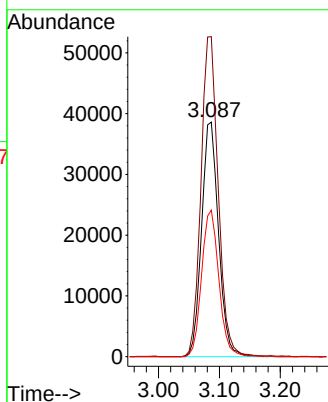
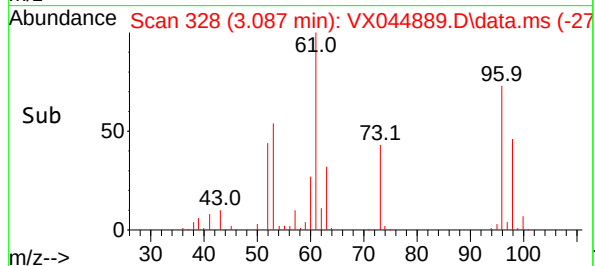
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MS



Tgt Ion: 96 Resp: 7467
Ion Ratio Lower Upper
96 100
61 136.4 106.0 159.0
98 62.4 50.6 76.0

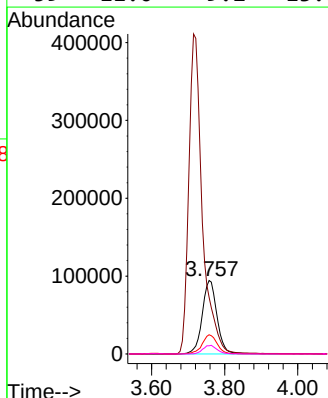
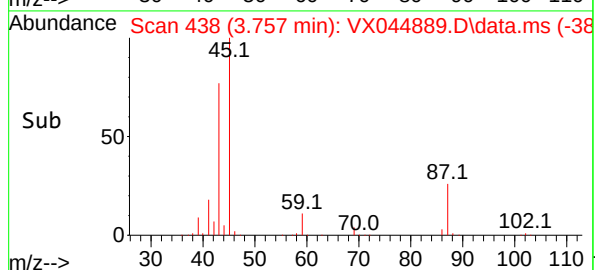
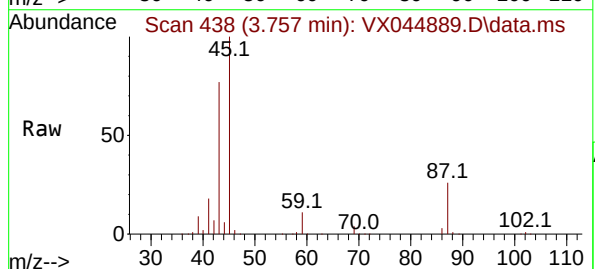
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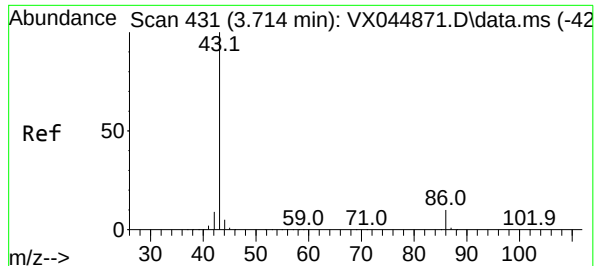
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#22
Diisopropyl ether
Concen: 48.778 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

Tgt Ion: 45 Resp: 264679
Ion Ratio Lower Upper
45 100
43 76.8 58.0 87.0
87 26.2 20.7 31.1
59 11.0 9.2 13.8





#23

Vinyl Acetate

Concen: 239.073 ug/l

RT: 3.715 min Scan# 41

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion: 43 Resp: 1057590

Ion Ratio Lower Upper

43 100

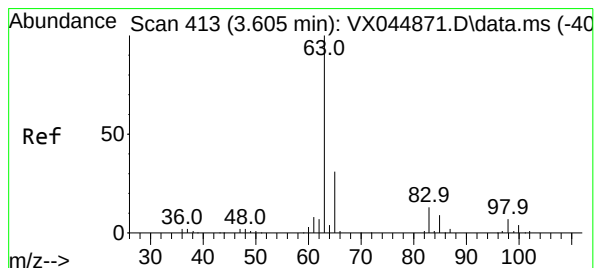
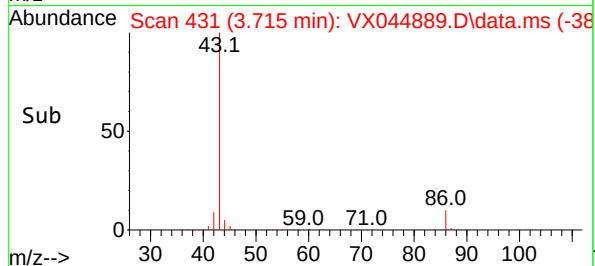
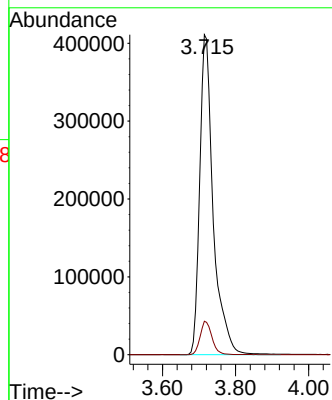
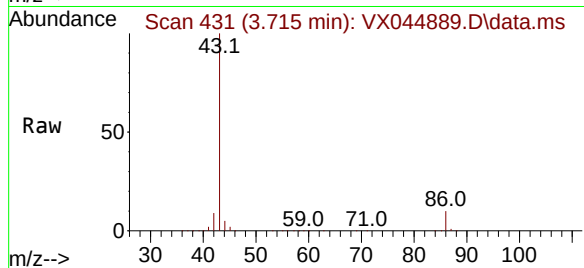
86 10.4 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#24

1,1-Dichloroethane

Concen: 47.649 ug/l

RT: 3.605 min Scan# 413

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

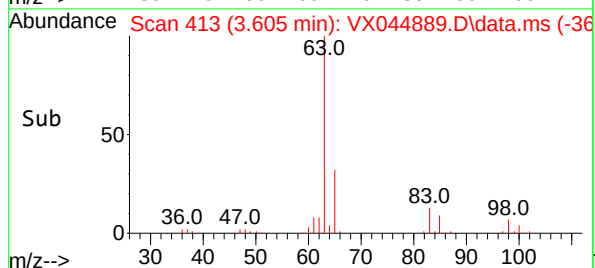
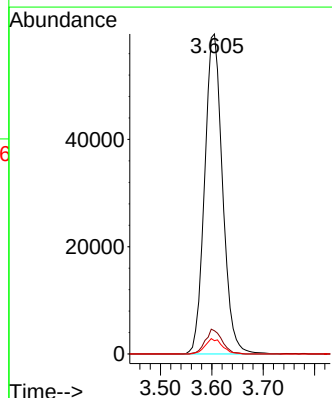
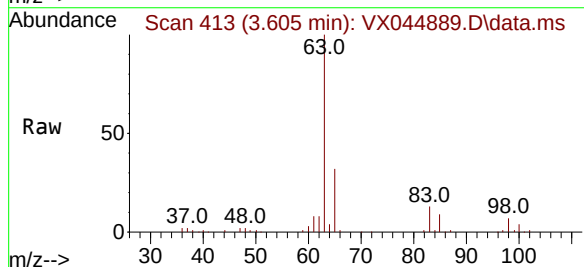
Tgt Ion: 63 Resp: 144670

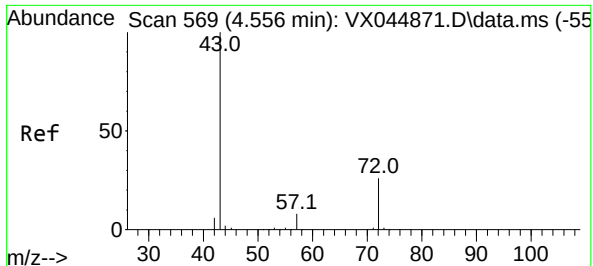
Ion Ratio Lower Upper

63 100

98 7.3 3.3 9.9

100 4.1 2.1 6.5





#25

2-Butanone

Concen: 251.748 ug/l

RT: 4.556 min Scan# 5

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion: 43 Resp: 296198

Ion Ratio Lower Upper

43 100

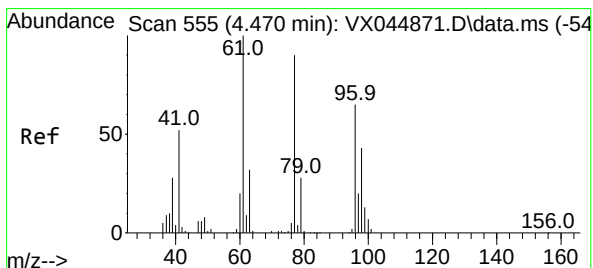
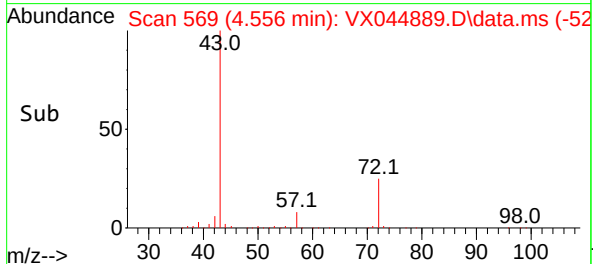
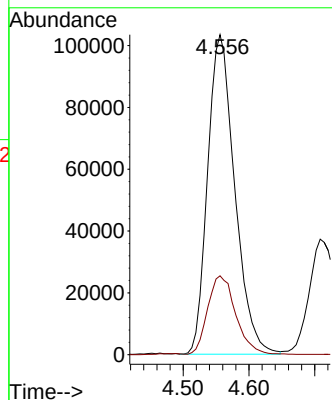
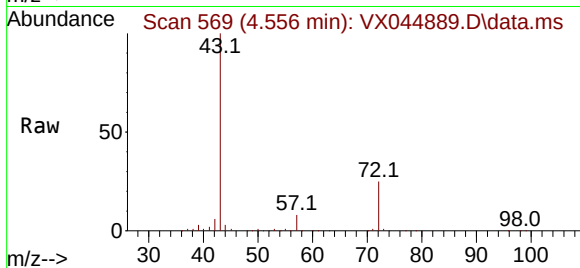
72 24.5 21.2 31.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#26

2,2-Dichloropropane

Concen: 43.088 ug/l

RT: 4.464 min Scan# 554

Delta R.T. -0.006 min

Lab File: VX044889.D

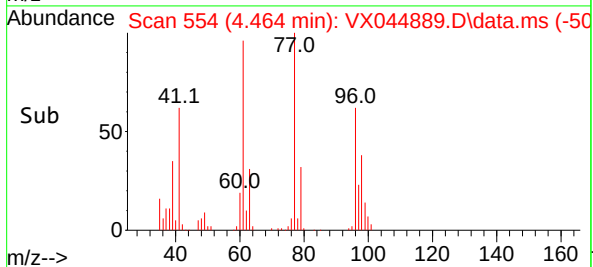
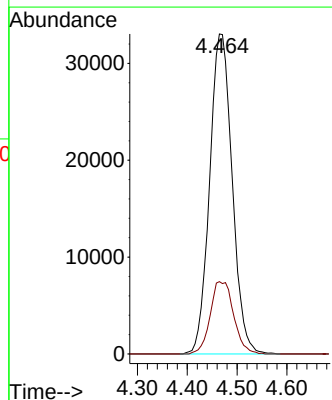
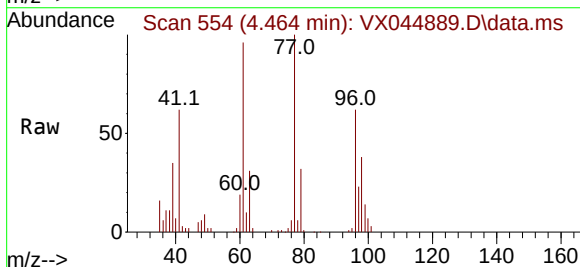
Acq: 10 Feb 2025 18:46

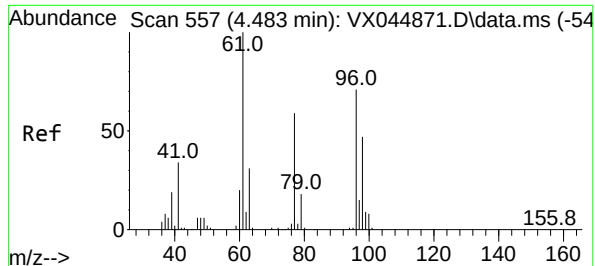
Tgt Ion: 77 Resp: 103746

Ion Ratio Lower Upper

77 100

97 23.5 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 47.956 ug/l

RT: 4.483 min Scan# 557

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion: 96 Resp: 89974

Ion Ratio Lower Upper

96 100

61 143.0 0.0 294.0

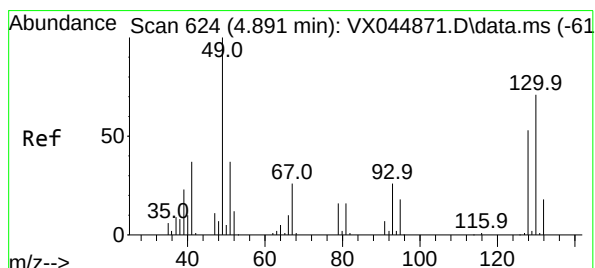
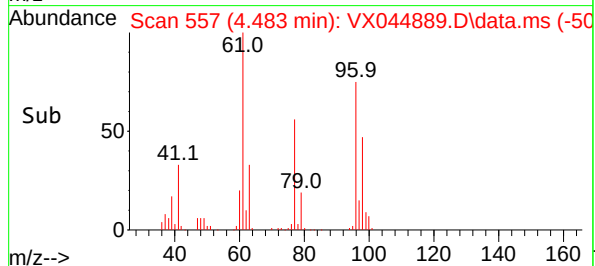
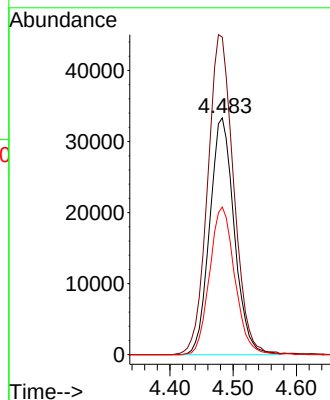
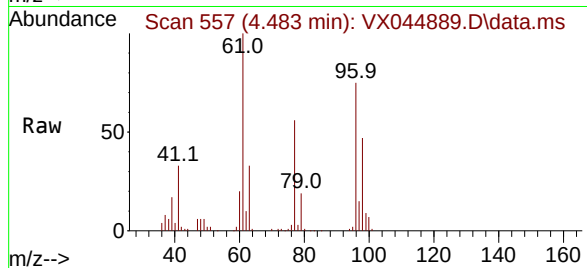
98 63.8 0.0 131.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#28

Bromochloromethane

Concen: 44.645 ug/l

RT: 4.891 min Scan# 624

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

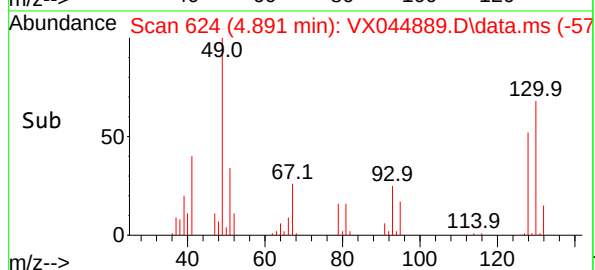
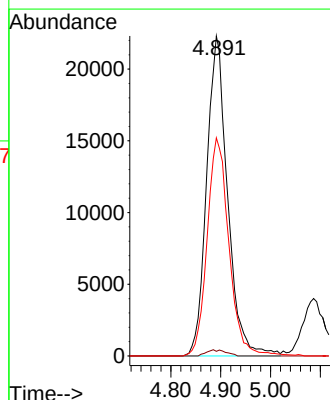
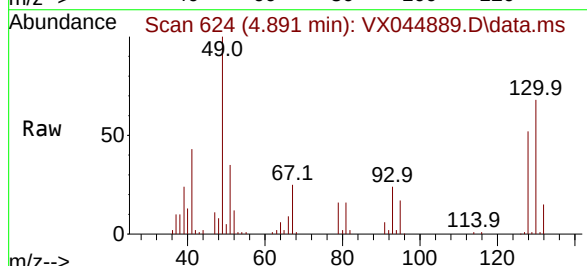
Tgt Ion: 49 Resp: 65142

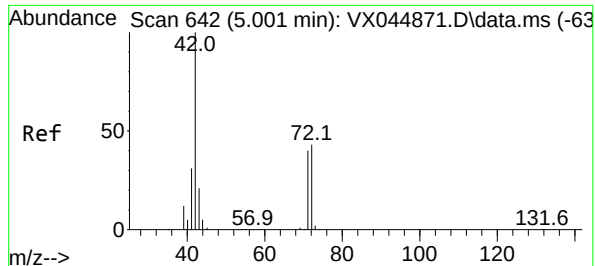
Ion Ratio Lower Upper

49 100

129 1.8 0.0 3.6

130 70.9 56.7 85.1





#29

Tetrahydrofuran

Concen: 252.319 ug/l

RT: 5.001 min Scan# 642

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion: 42 Resp: 197129

Ion Ratio Lower Upper

42 100

72 43.1 35.0 52.4

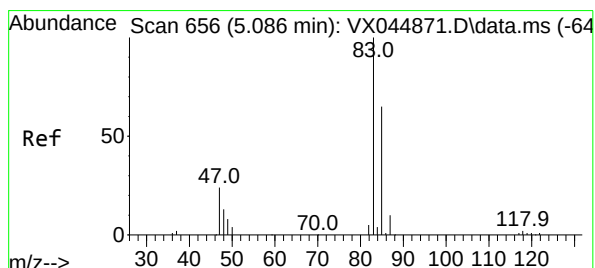
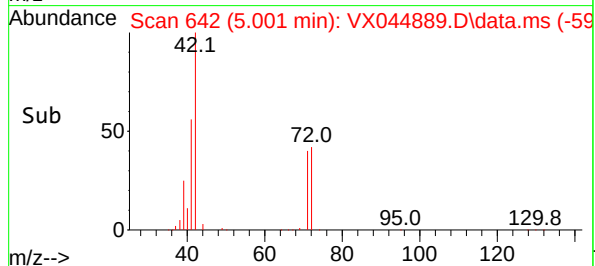
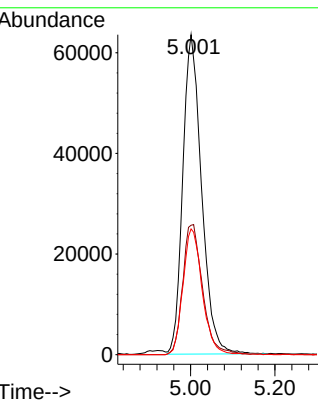
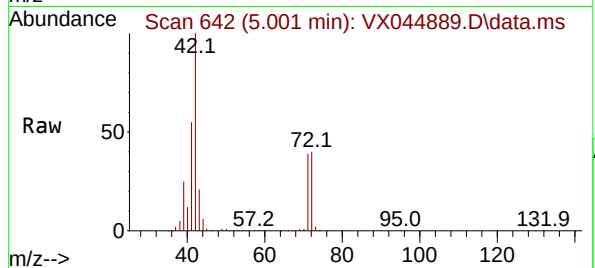
71 40.5 32.6 48.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#30

Chloroform

Concen: 47.317 ug/l

RT: 5.086 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX044889.D

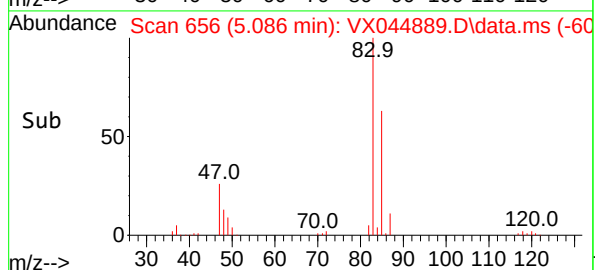
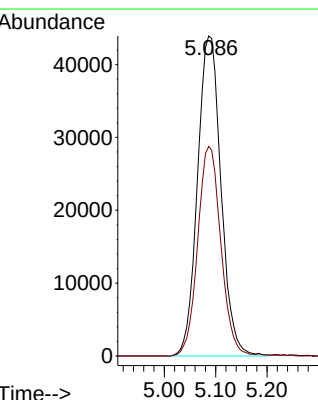
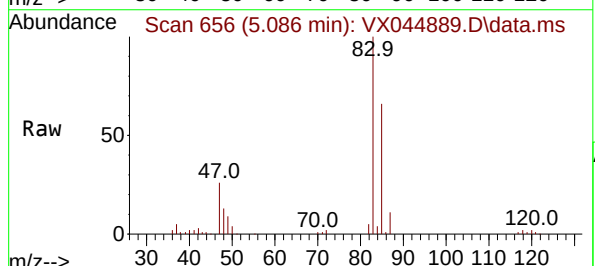
Acq: 10 Feb 2025 18:46

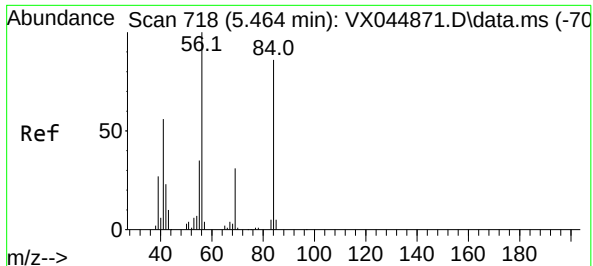
Tgt Ion: 83 Resp: 139323

Ion Ratio Lower Upper

83 100

85 65.5 52.1 78.1





#31

Cyclohexane

Concen: 46.040 ug/l

RT: 5.458 min Scan# 718

Delta R.T. -0.006 min

Lab File: VX044889.D

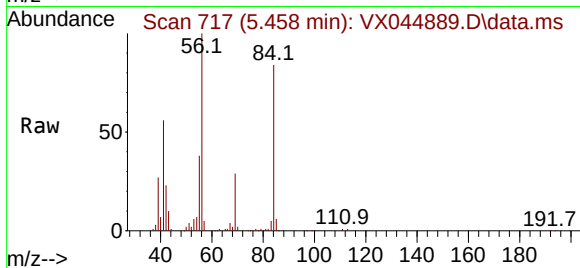
Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS



Tgt Ion: 56 Resp: 128869

Ion Ratio Lower Upper

56 100

69 29.4 24.4 36.6

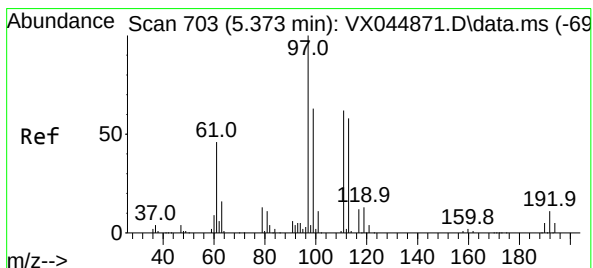
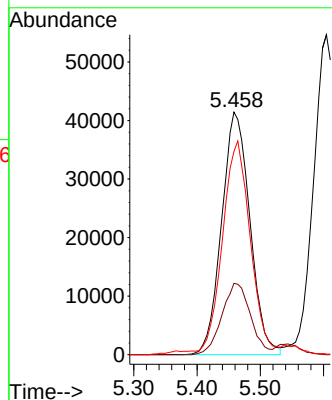
84 82.3 69.0 103.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#32

1,1,1-Trichloroethane

Concen: 47.083 ug/l

RT: 5.373 min Scan# 703

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

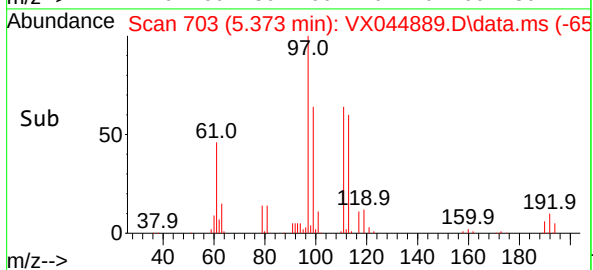
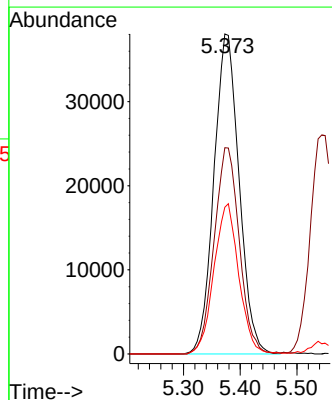
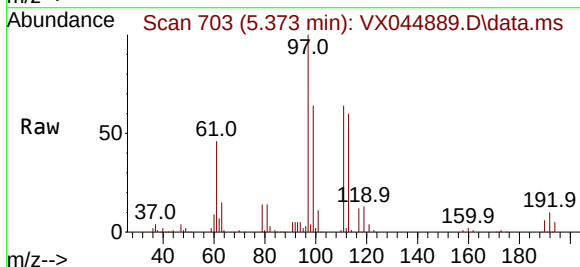
Tgt Ion: 97 Resp: 117591

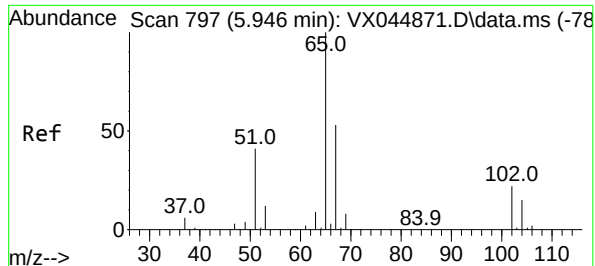
Ion Ratio Lower Upper

97 100

99 64.3 51.0 76.6

61 46.5 36.6 55.0





#33

1,2-Dichloroethane-d4

Concen: 50.756 ug/l

RT: 5.952 min Scan# 79

Delta R.T. 0.006 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion: 65 Resp: 9148

Ion Ratio Lower Upper

65 100

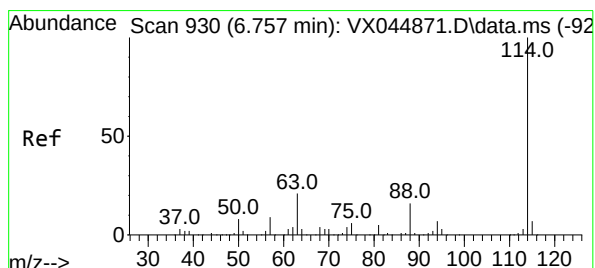
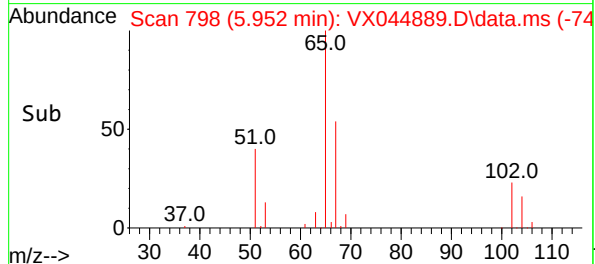
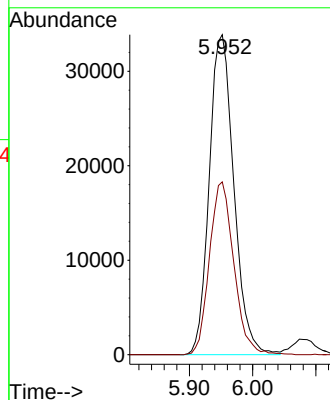
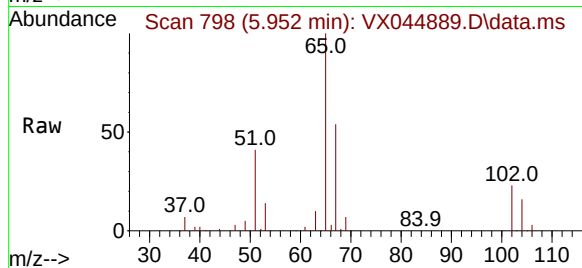
67 53.5 0.0 108.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

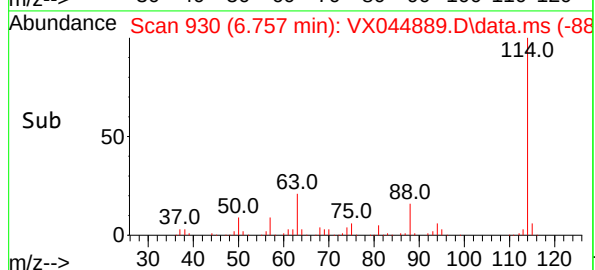
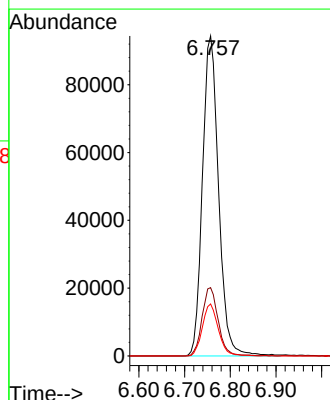
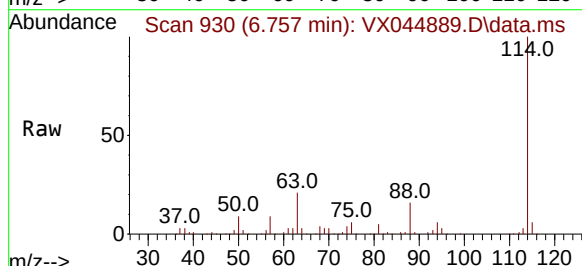
Tgt Ion:114 Resp: 231125

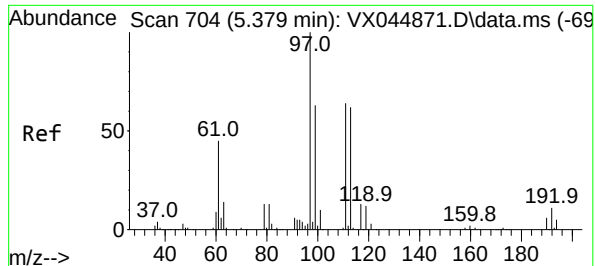
Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.4

88 16.3 0.0 31.4





#35

Dibromofluoromethane

Concen: 49.045 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044889.D

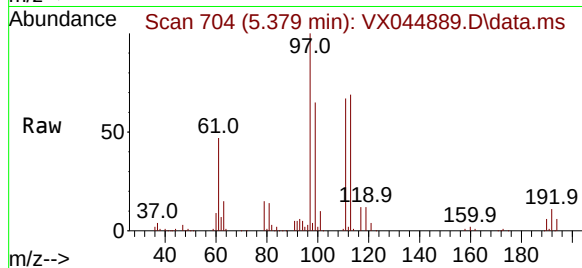
Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS



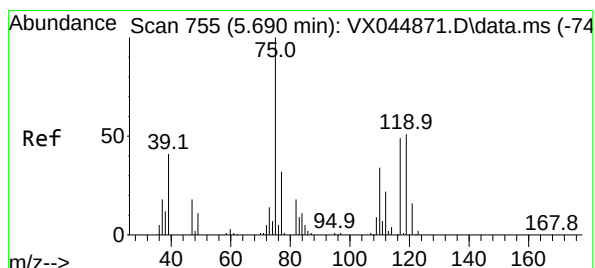
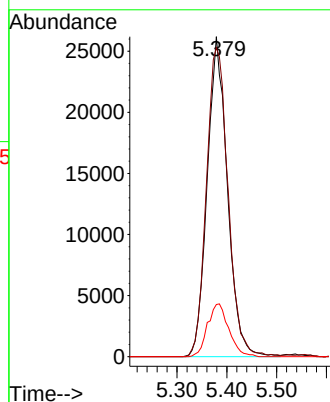
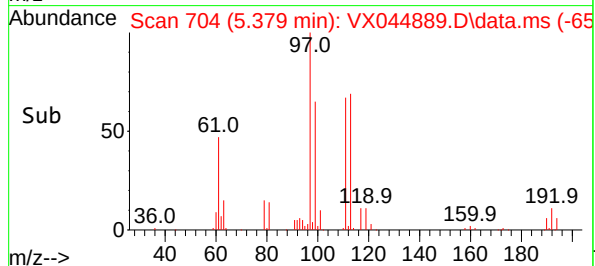
Tgt Ion:	113	Resp:	73700
Ion	Ratio	Lower	Upper
113	100		
111	103.5	83.5	125.3
192	17.4	14.4	21.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#36

1,1-Dichloropropene

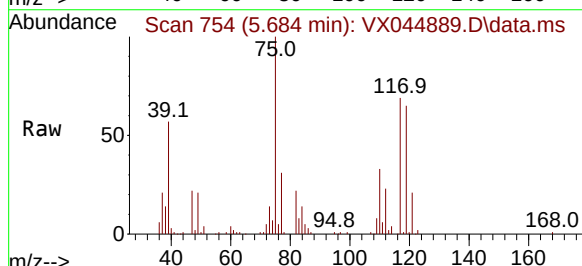
Concen: 44.631 ug/l

RT: 5.684 min Scan# 754

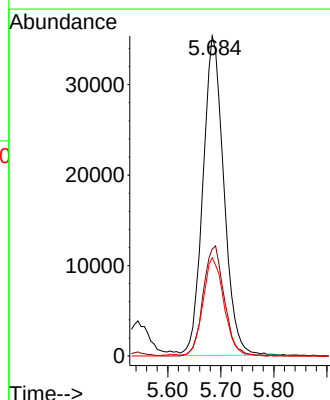
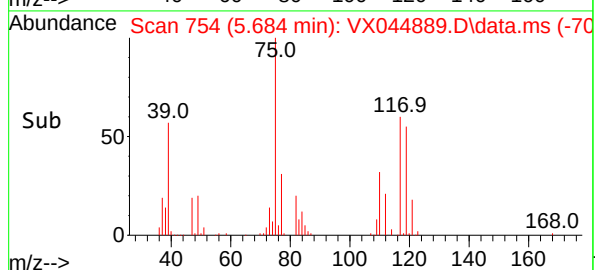
Delta R.T. -0.006 min

Lab File: VX044889.D

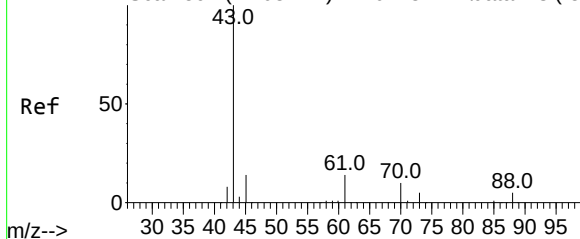
Acq: 10 Feb 2025 18:46



Tgt Ion:	75	Resp:	96760
Ion	Ratio	Lower	Upper
75	100		
110	34.8	17.2	51.6
77	31.0	24.6	37.0



Abundance Scan 594 (4.708 min): VX044871.D\data.ms (-58



#37

Ethyl Acetate

Concen: 46.766 ug/l

RT: 4.708 min Scan# 594

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

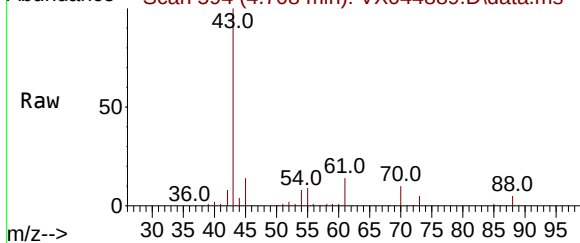
Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Abundance Scan 594 (4.708 min): VX044889.D\data.ms



Tgt Ion: 43 Resp: 112772

Ion Ratio Lower Upper

43 100

61 13.8 11.0 16.4

70 10.2 8.2 12.2

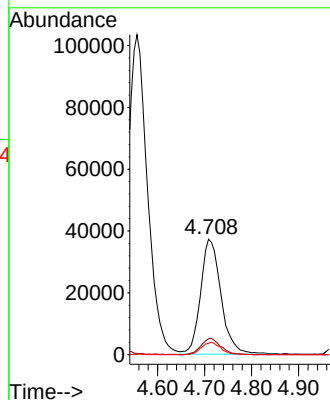
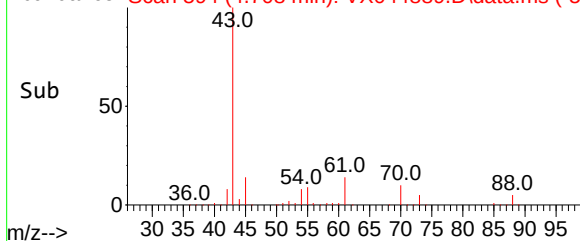
Manual Integrations

APPROVED

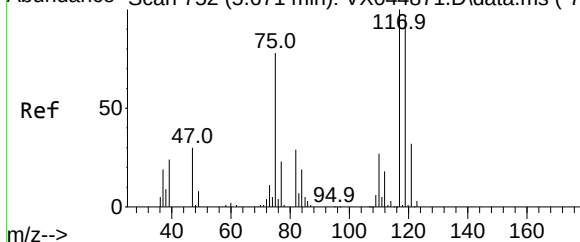
Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025

Abundance Scan 594 (4.708 min): VX044889.D\data.ms (-54



Abundance Scan 752 (5.671 min): VX044871.D\data.ms (-74



#38

Carbon Tetrachloride

Concen: 45.036 ug/l

RT: 5.672 min Scan# 752

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Tgt Ion:117 Resp: 95680

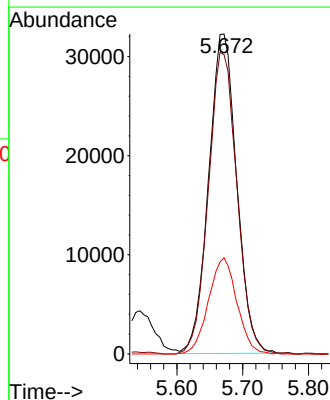
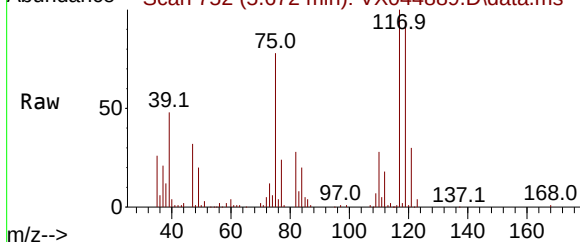
Ion Ratio Lower Upper

117 100

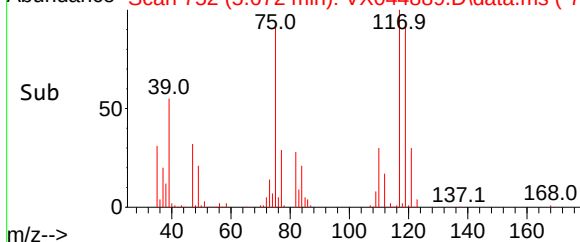
119 93.4 77.5 116.3

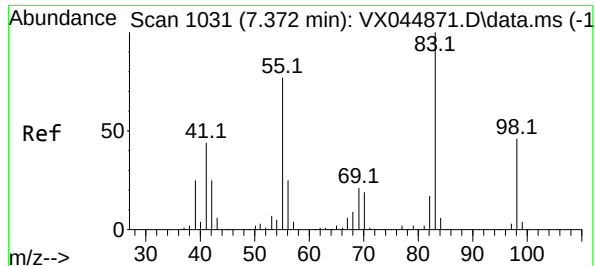
121 30.1 25.6 38.4

Abundance Scan 752 (5.672 min): VX044889.D\data.ms



Abundance Scan 752 (5.672 min): VX044889.D\data.ms (-70





#39

Methylcyclohexane

Concen: 45.400 ug/l

RT: 7.372 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion: 83 Resp: 127250

Ion Ratio Lower Upper

83 100

55 78.3 61.3 91.9

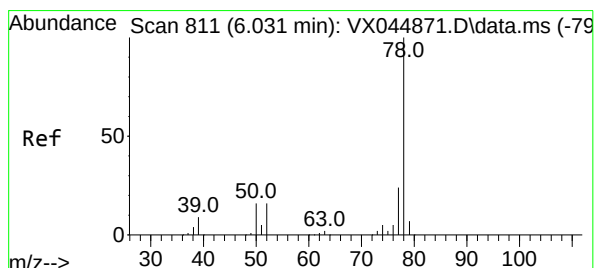
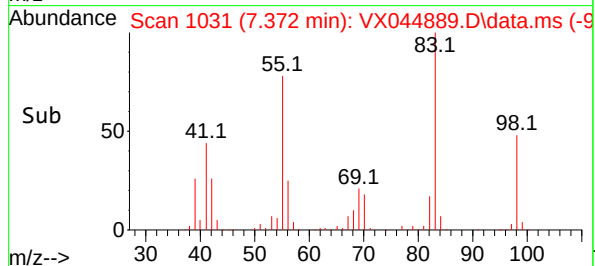
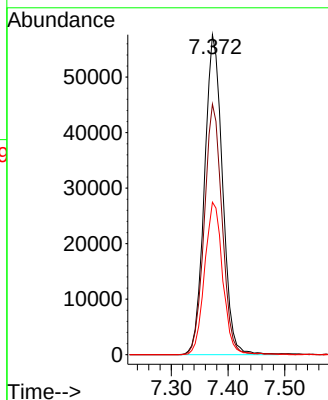
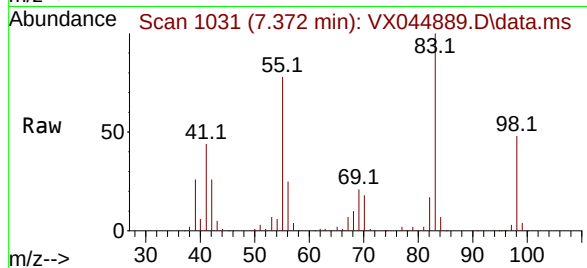
98 47.7 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#40

Benzene

Concen: 46.431 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX044889.D

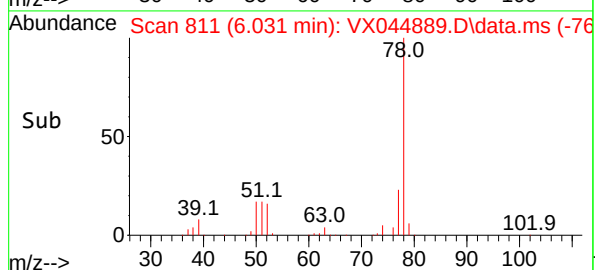
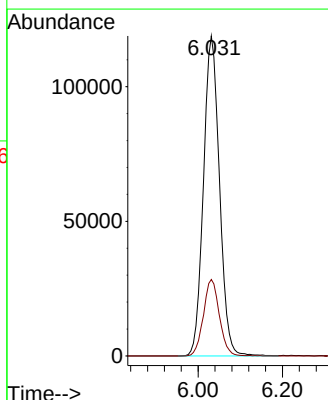
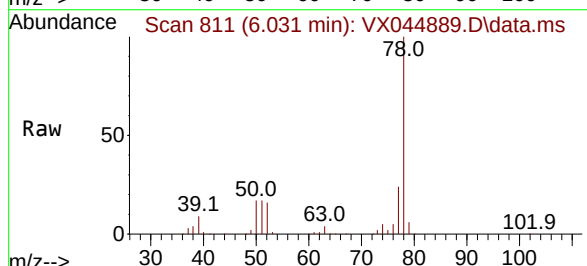
Acq: 10 Feb 2025 18:46

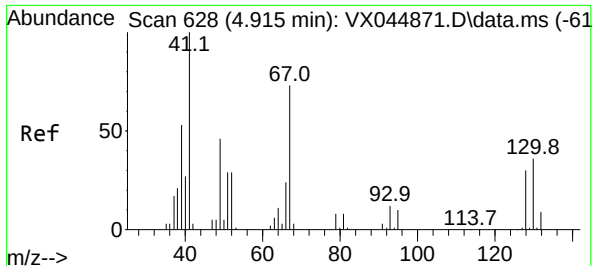
Tgt Ion: 78 Resp: 314324

Ion Ratio Lower Upper

78 100

77 23.9 19.0 28.6





#41

Methacrylonitrile

Concen: 50.850 ug/l

RT: 4.916 min Scan# 61

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion: 41 Resp: 65634

Ion Ratio Lower Upper

41 100

39 54.8 43.1 64.7

67 71.0 57.0 85.6

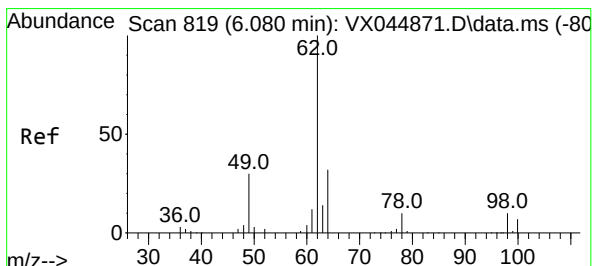
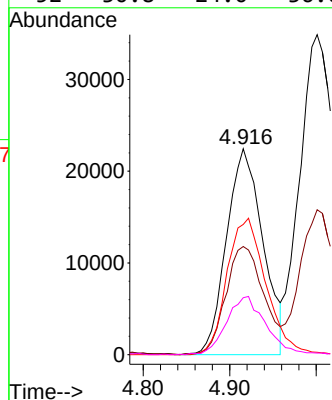
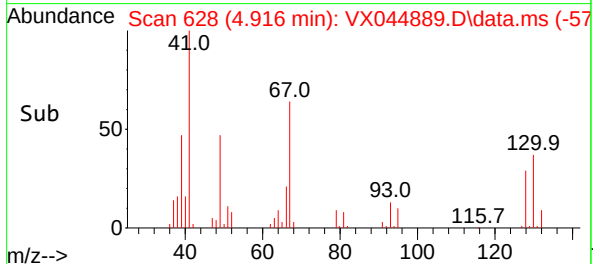
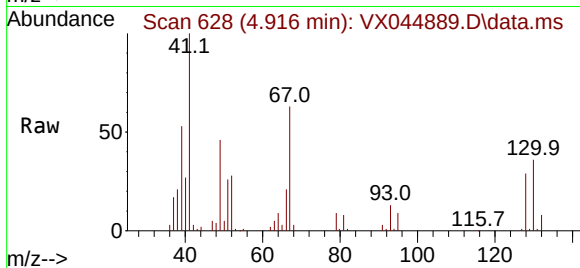
52 30.8 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#42

1,2-Dichloroethane

Concen: 47.585 ug/l

RT: 6.080 min Scan# 819

Delta R.T. 0.000 min

Lab File: VX044889.D

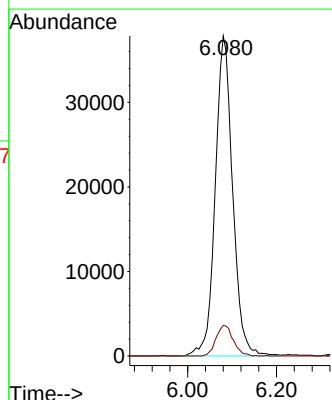
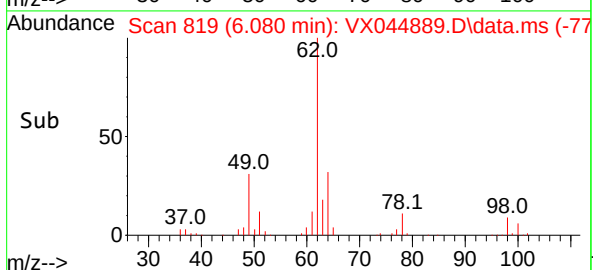
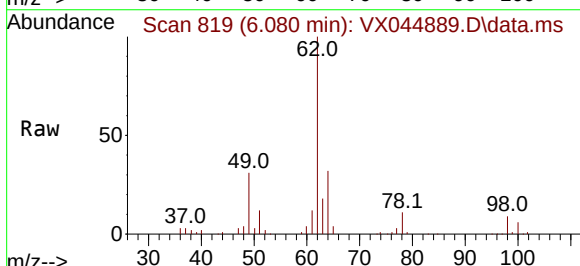
Acq: 10 Feb 2025 18:46

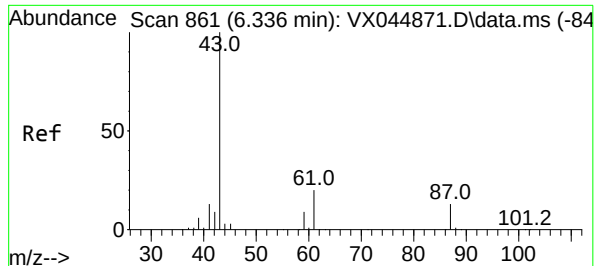
Tgt Ion: 62 Resp: 102669

Ion Ratio Lower Upper

62 100

98 9.4 0.0 19.4





#43

Isopropyl Acetate

Concen: 48.121 ug/l

RT: 6.336 min Scan# 861

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion: 43 Resp: 18738

Ion Ratio Lower Upper

43

100

61

87

19.6

12.5

15.8

10.0

23.8

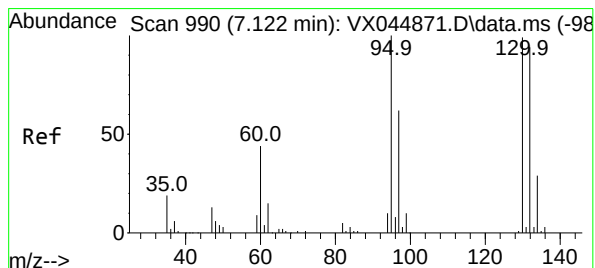
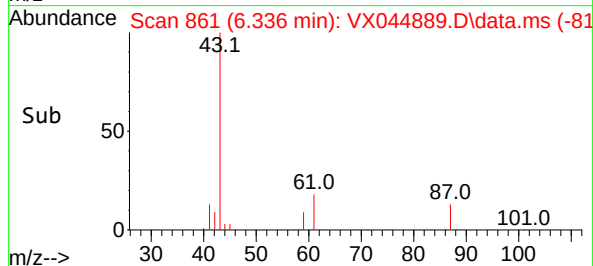
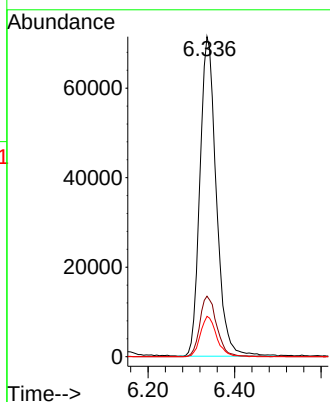
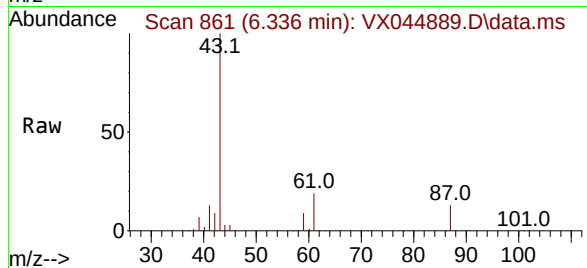
15.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#44

Trichloroethene

Concen: 45.606 ug/l

RT: 7.123 min Scan# 990

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Tgt Ion:130 Resp: 70570

Ion Ratio Lower Upper

130

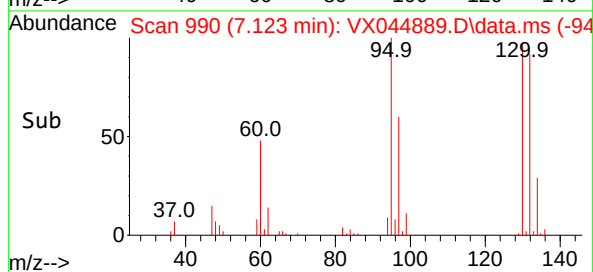
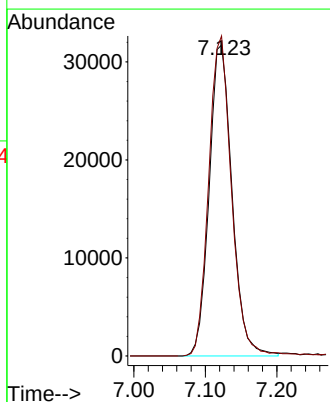
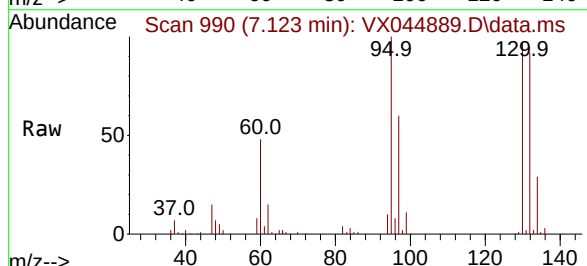
95

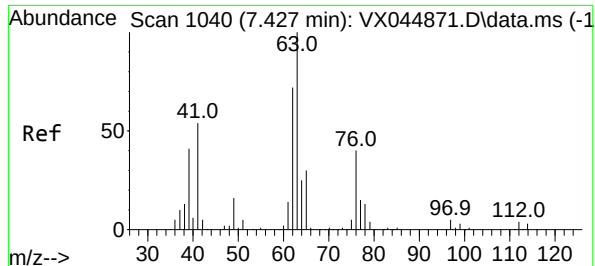
100

102.9

0.0

202.4





#45

1,2-Dichloropropane

Concen: 46.748 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion: 63 Resp: 78734

Ion Ratio Lower Upper

63 100

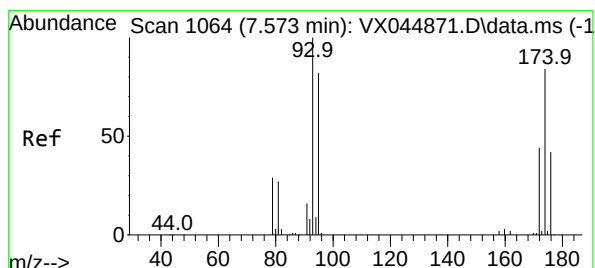
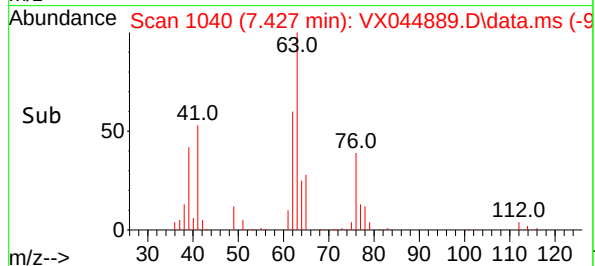
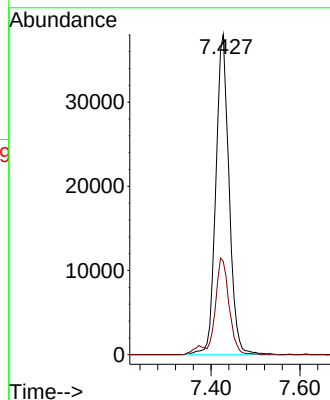
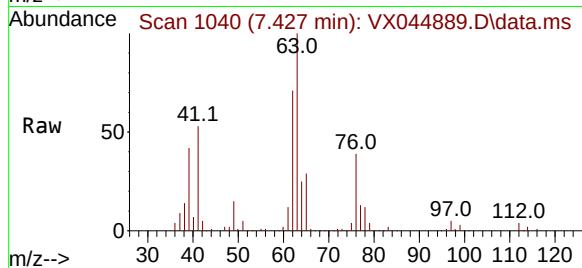
65 29.2 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#46

Dibromomethane

Concen: 46.834 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. 0.006 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

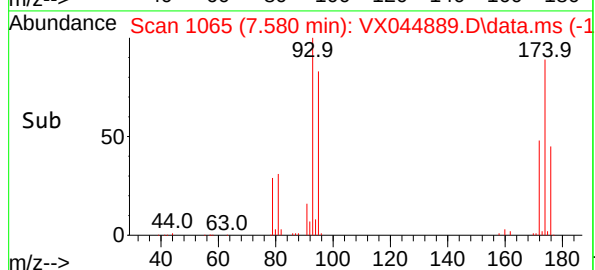
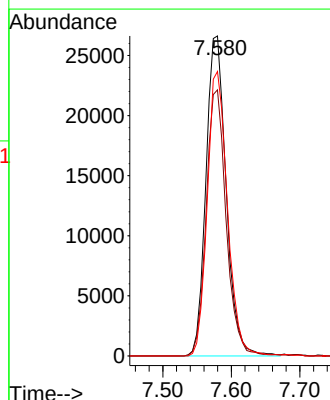
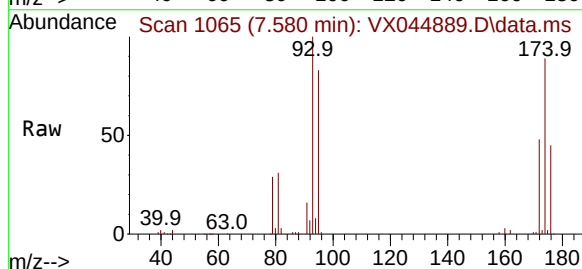
Tgt Ion: 93 Resp: 54702

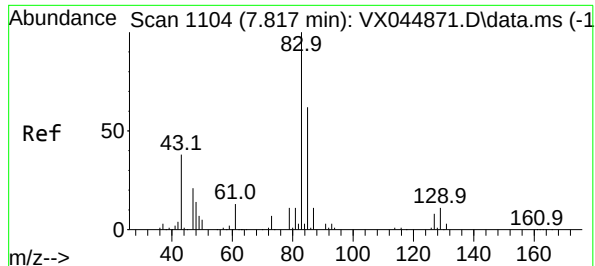
Ion Ratio Lower Upper

93 100

95 82.4 66.2 99.4

174 88.7 69.9 104.9





#47

Bromodichloromethane

Concen: 47.725 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion: 83 Resp: 107934

Ion Ratio Lower Upper

83 100

85 63.3 50.0 75.0

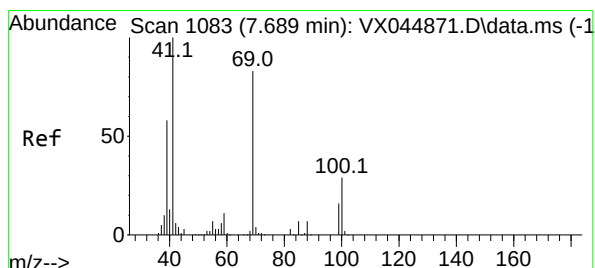
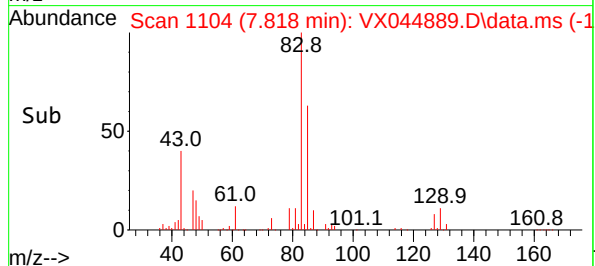
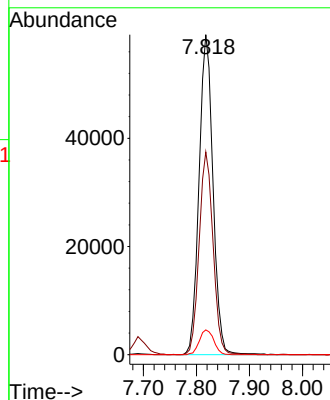
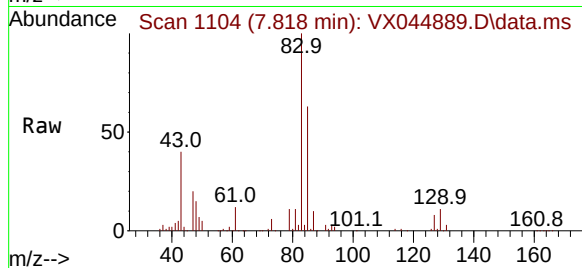
127 7.8 6.4 9.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#48

Methyl methacrylate

Concen: 48.977 ug/l

RT: 7.689 min Scan# 1083

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

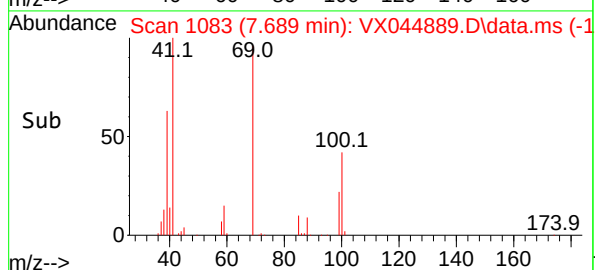
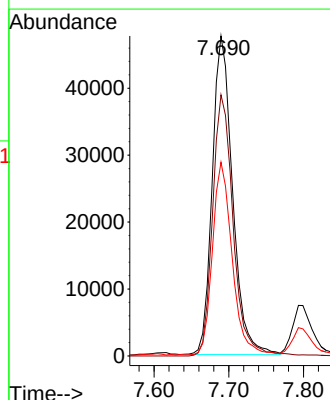
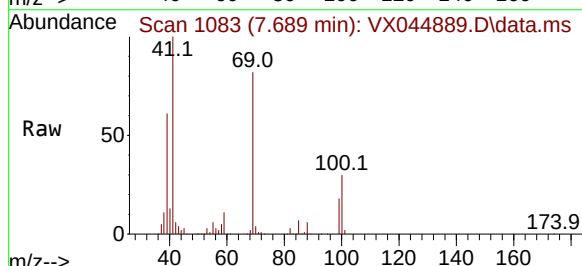
Tgt Ion: 41 Resp: 89926

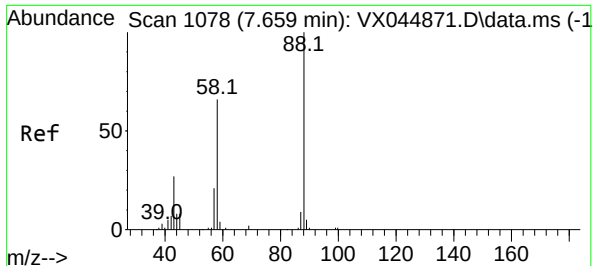
Ion Ratio Lower Upper

41 100

69 83.4 65.8 98.8

39 58.7 46.4 69.6





#49

1,4-Dioxane

Concen: 796.936 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. 0.006 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion: 88 Resp: 31394

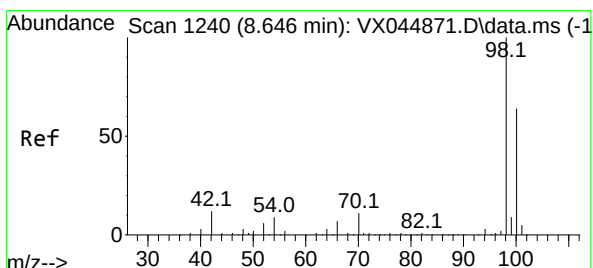
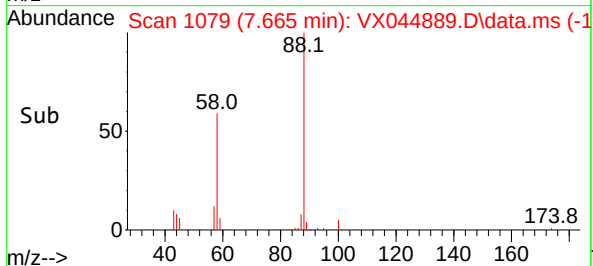
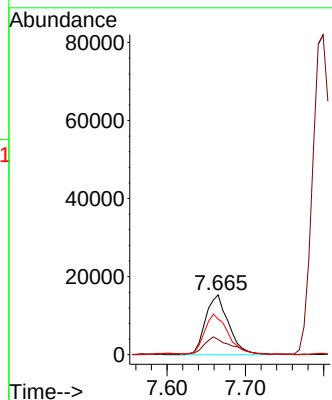
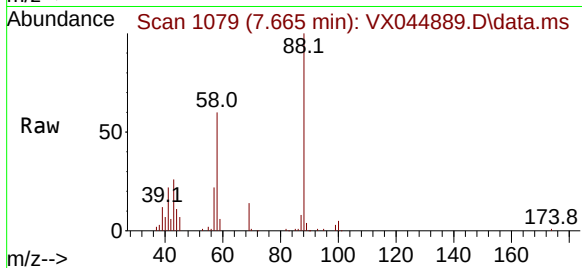
Ion	Ratio	Lower	Upper
88	100		
43	33.5	26.6	39.8
58	68.5	55.9	83.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#50

Toluene-d8

Concen: 49.527 ug/l

RT: 8.647 min Scan# 1240

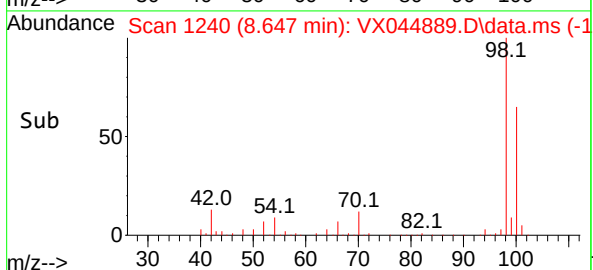
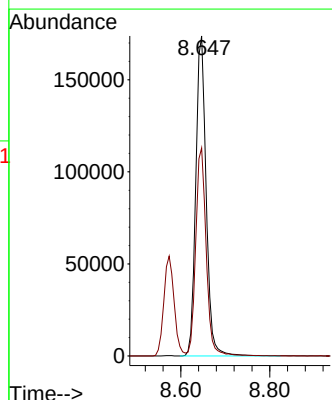
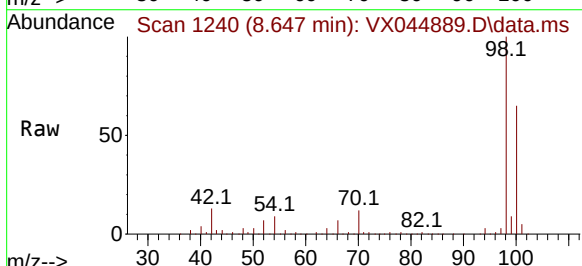
Delta R.T. 0.000 min

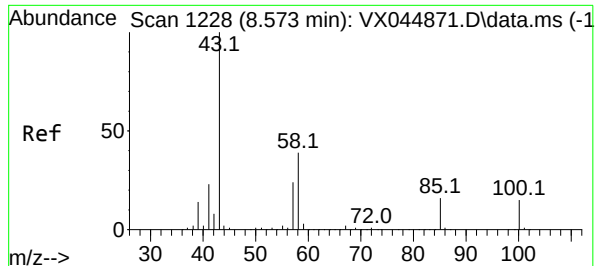
Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Tgt Ion: 98 Resp: 281430

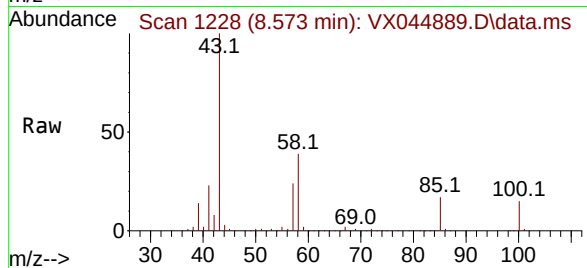
Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.7	79.1





#51
4-Methyl-2-Pentanone
Concen: 254.162 ug/l
RT: 8.573 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

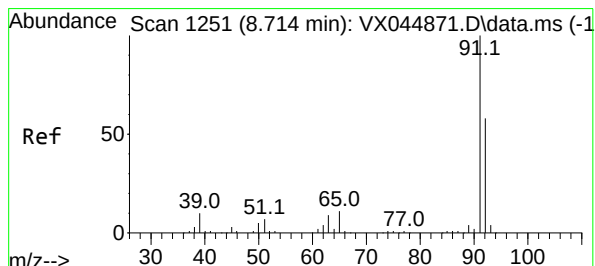
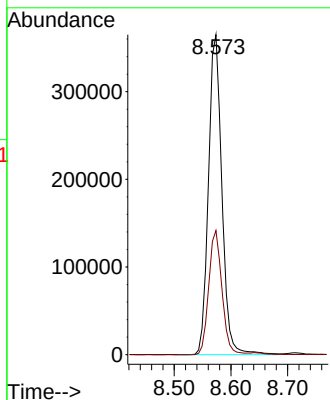
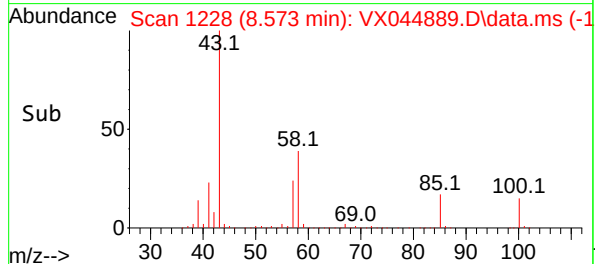
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MS



Tgt Ion: 43 Resp: 601690
Ion Ratio Lower Upper
43 100
58 38.3 30.8 46.2

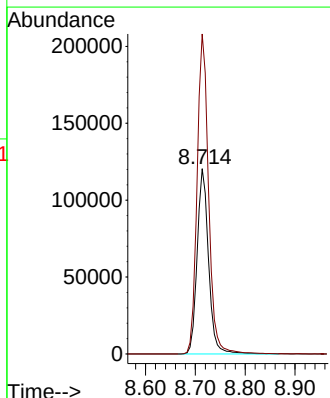
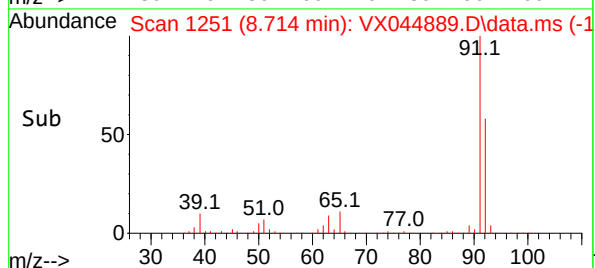
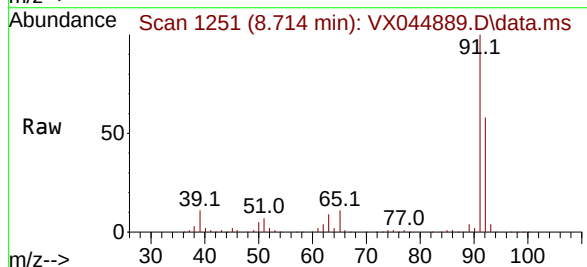
Manual Integrations
APPROVED

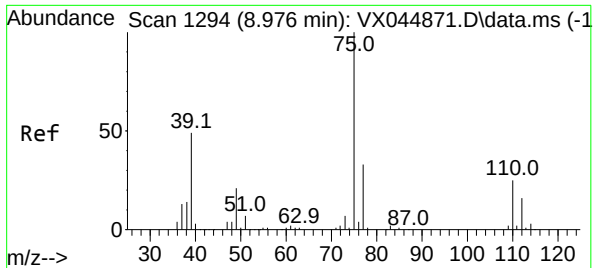
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#52
Toluene
Concen: 47.434 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

Tgt Ion: 92 Resp: 191243
Ion Ratio Lower Upper
92 100
91 174.0 137.4 206.2





#53

t-1,3-Dichloropropene

Concen: 47.022 ug/l

RT: 8.976 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion: 75 Resp: 107610

Ion Ratio Lower Upper

75 100

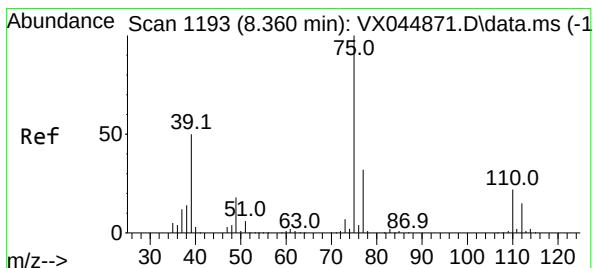
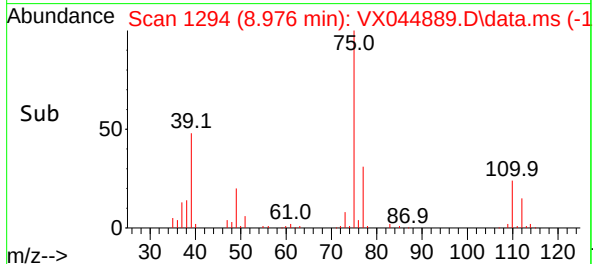
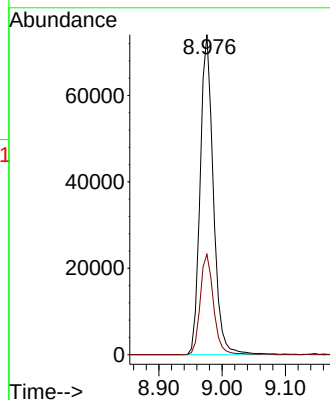
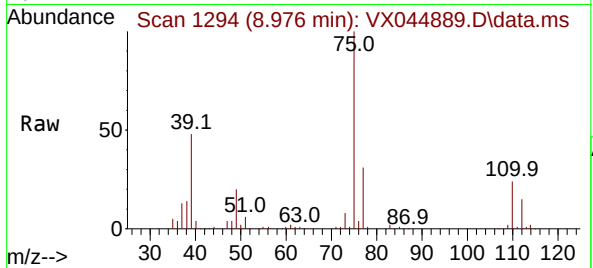
77 31.3 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#54

cis-1,3-Dichloropropene

Concen: 47.013 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

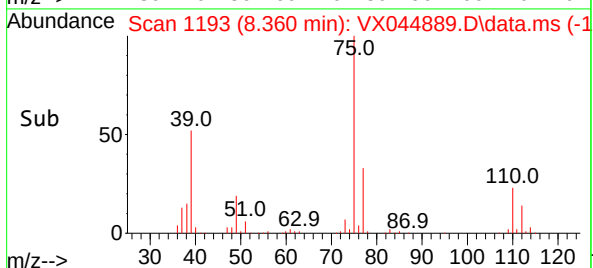
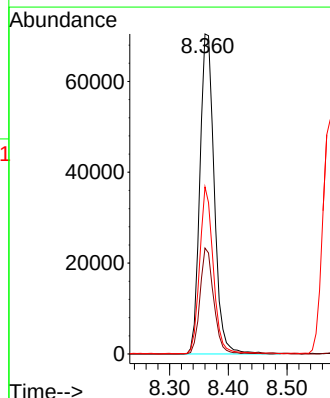
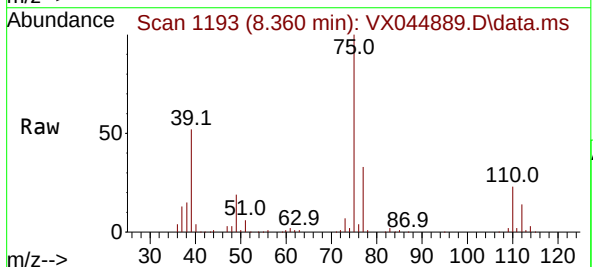
Tgt Ion: 75 Resp: 119963

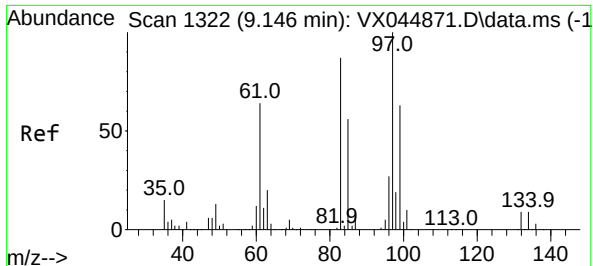
Ion Ratio Lower Upper

75 100

77 33.1 25.3 37.9

39 52.1 40.0 60.0





#55

1,1,2-Trichloroethane

Concen: 48.649 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Tgt Ion: 97 Resp: 75399

Ion Ratio Lower Upper

97 100

83 87.0 69.8 104.6

85 57.0 44.8 67.2

99 62.7 50.6 76.0

Instrument :

MSVOA_X

ClientSampleId :

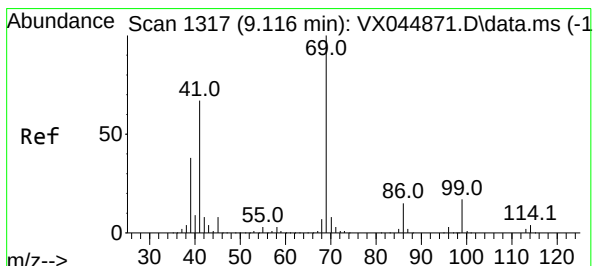
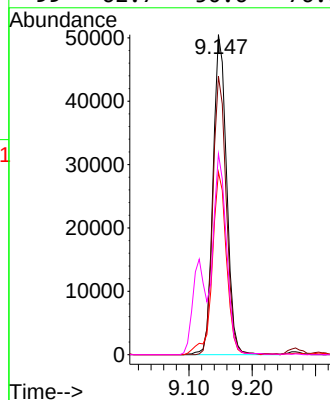
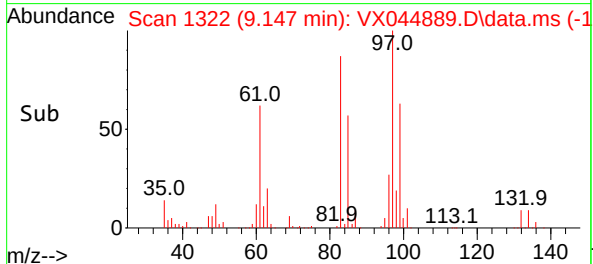
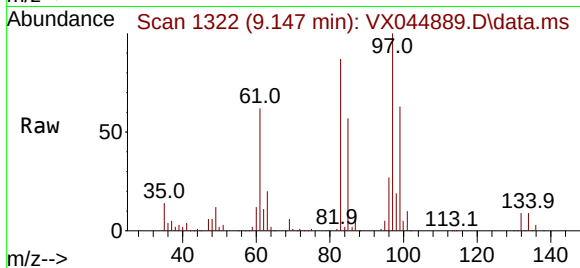
BP-VPB-192-GW-360-362MS

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#56

Ethyl methacrylate

Concen: 49.533 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

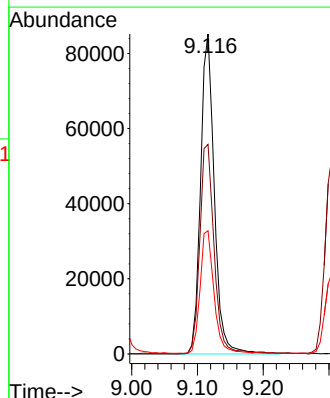
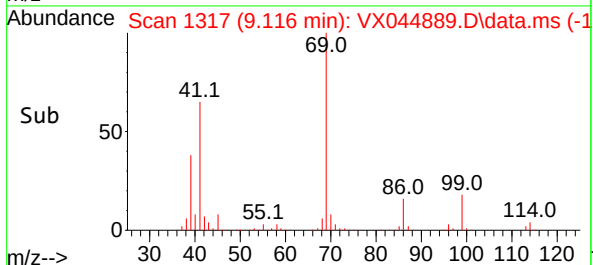
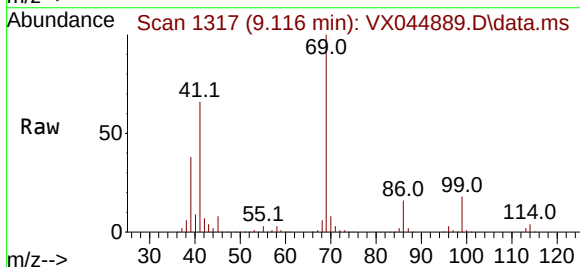
Tgt Ion: 69 Resp: 123989

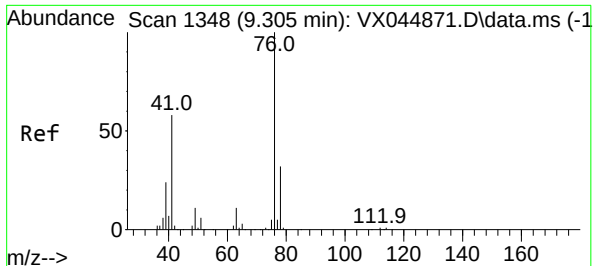
Ion Ratio Lower Upper

69 100

41 68.2 55.2 82.8

39 39.0 30.8 46.2





#57

1,3-Dichloropropane

Concen: 47.617 ug/l

RT: 9.305 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion: 76 Resp: 12912

Ion Ratio Lower Upper

76 100

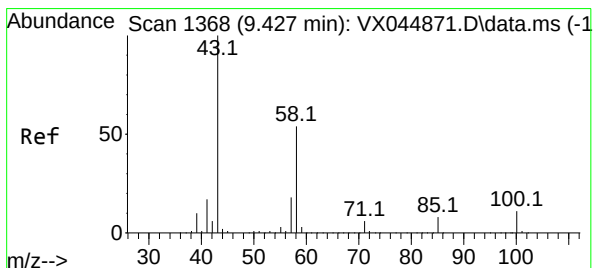
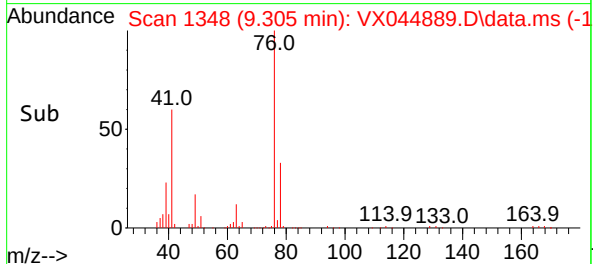
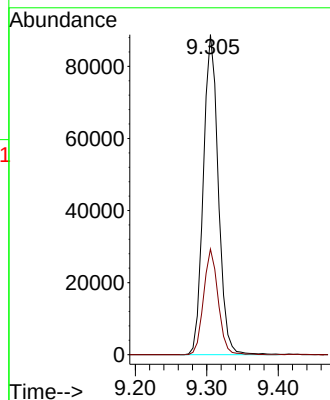
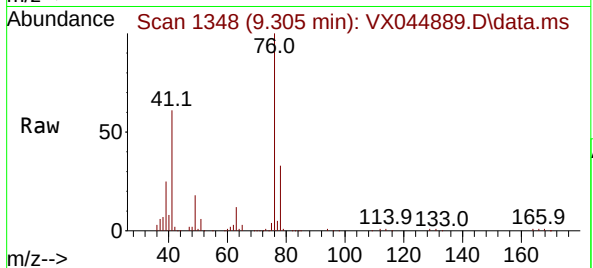
78 32.1 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#59

2-Hexanone

Concen: 256.671 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX044889.D

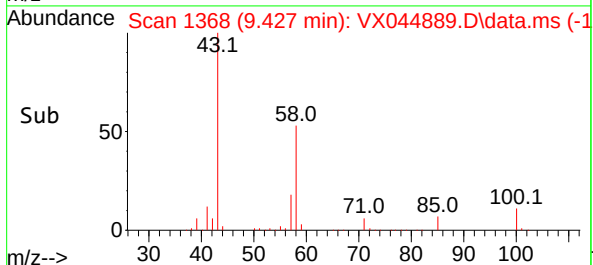
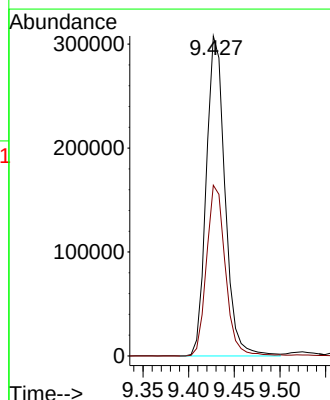
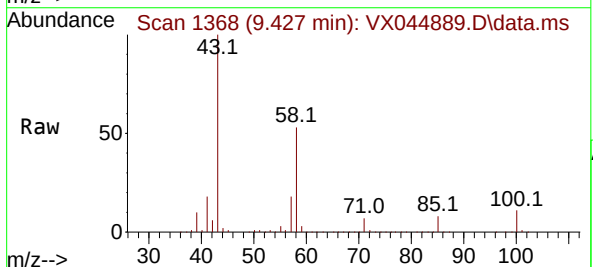
Acq: 10 Feb 2025 18:46

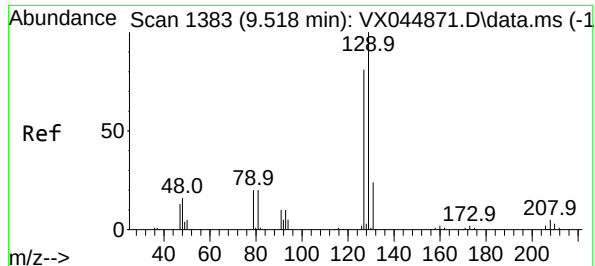
Tgt Ion: 43 Resp: 437808

Ion Ratio Lower Upper

43 100

58 53.8 27.5 82.4





#60

Dibromochloromethane

Concen: 47.623 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion:129 Resp: 78936

Ion Ratio Lower Upper

129 100

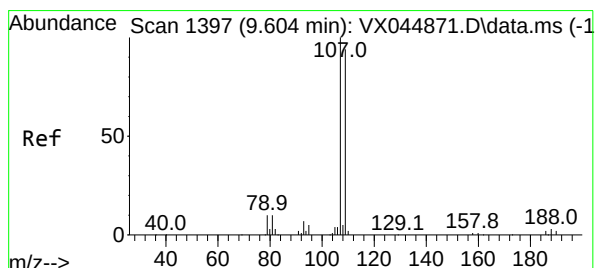
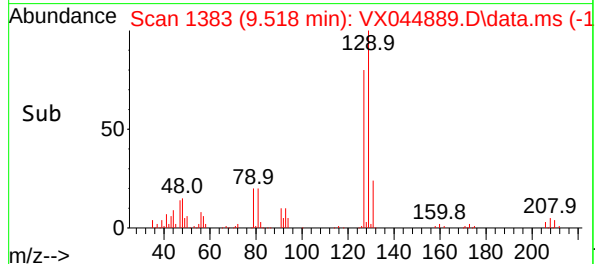
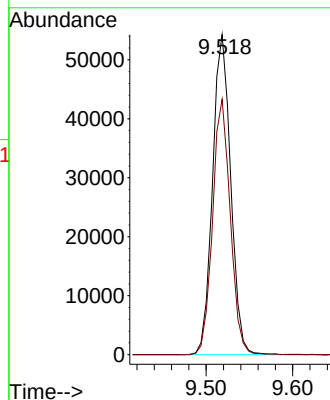
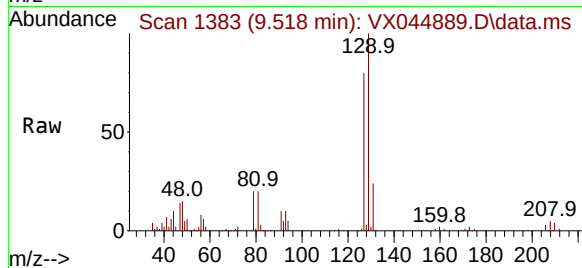
127 77.8 39.1 117.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#61

1,2-Dibromoethane

Concen: 48.416 ug/l

RT: 9.604 min Scan# 1397

Delta R.T. 0.000 min

Lab File: VX044889.D

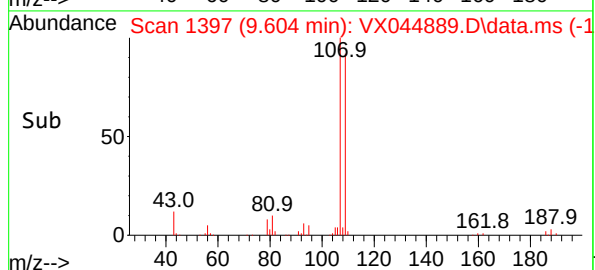
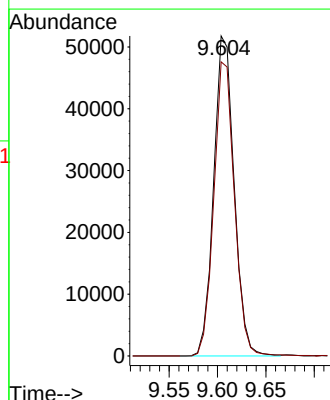
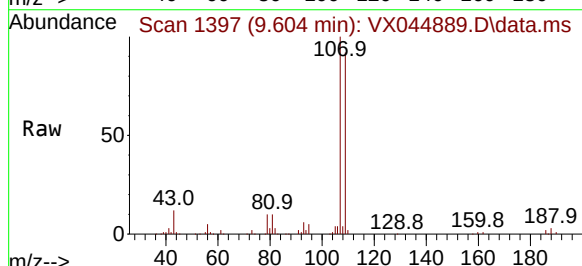
Acq: 10 Feb 2025 18:46

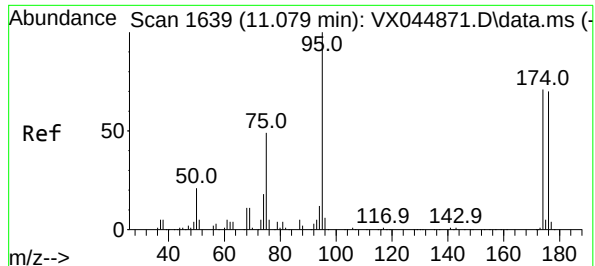
Tgt Ion:107 Resp: 76055

Ion Ratio Lower Upper

107 100

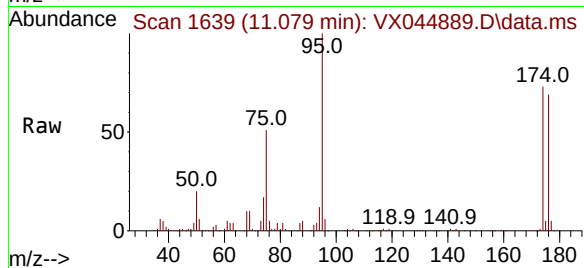
109 92.7 75.9 113.9





#62
4-Bromofluorobenzene
Concen: 49.264 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

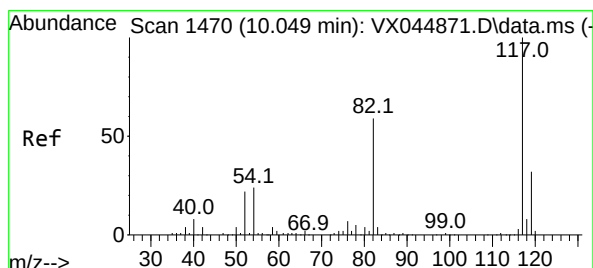
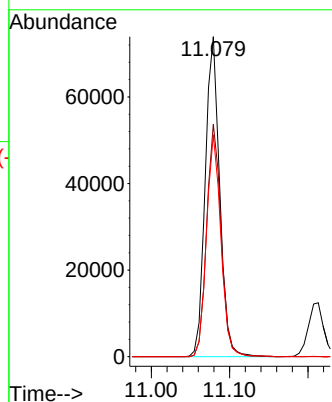
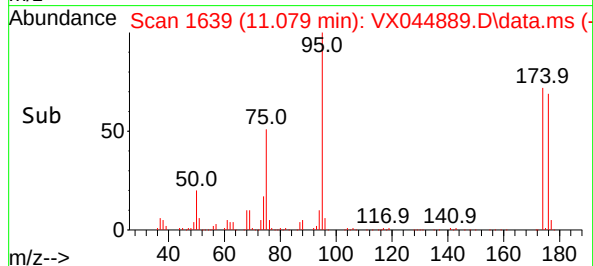
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MS



Tgt Ion: 95 Resp: 94372
Ion Ratio Lower Upper
95 100
174 72.8 0.0 142.6
176 69.2 0.0 141.6

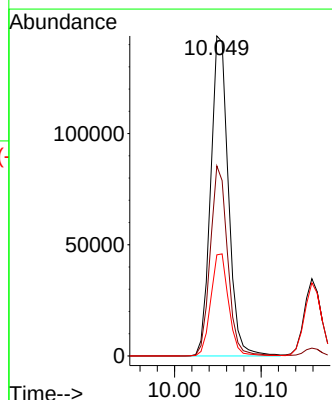
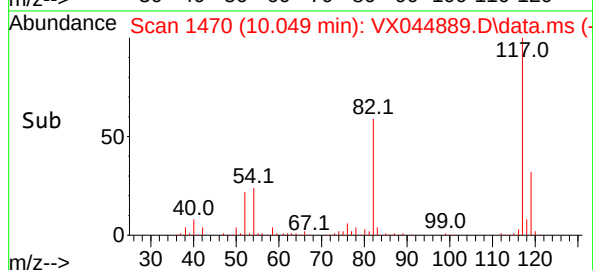
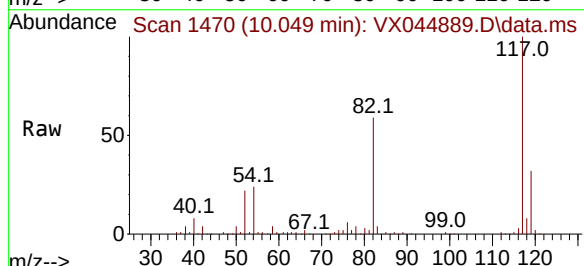
Manual Integrations
APPROVED

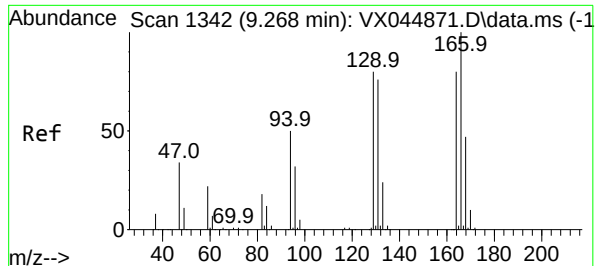
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

Tgt Ion:117 Resp: 204212
Ion Ratio Lower Upper
117 100
82 59.4 47.5 71.3
119 31.6 25.4 38.0





#64

Tetrachloroethene

Concen: 45.492 ug/l

RT: 9.268 min Scan# 1342

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion:164 Resp: 5858

Ion Ratio Lower Upper

164 100

166 126.9 100.4 150.6

129 98.4 79.9 119.9

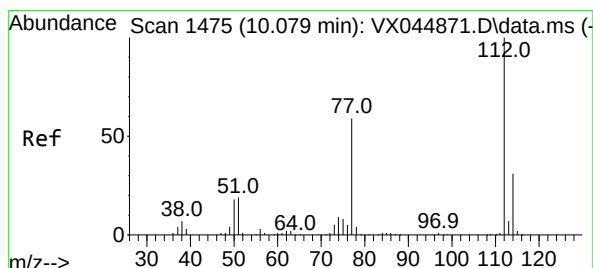
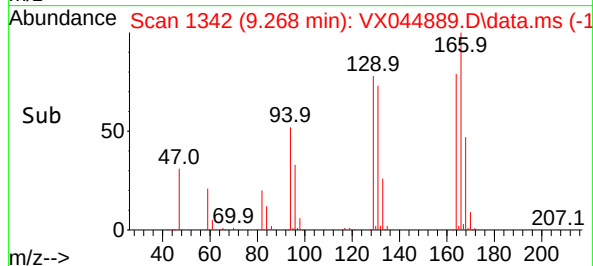
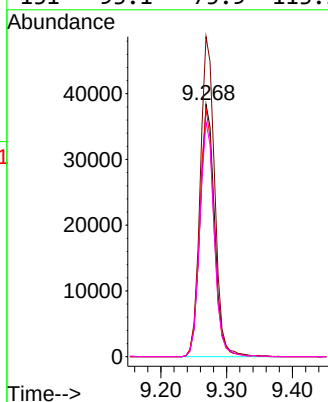
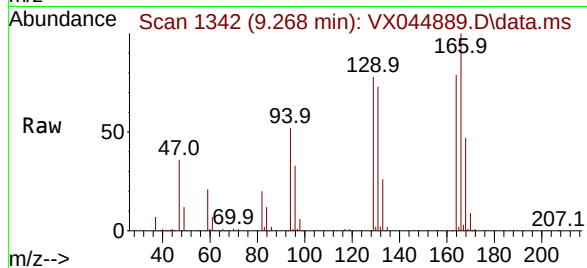
131 93.1 75.9 113.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#65

Chlorobenzene

Concen: 46.631 ug/l

RT: 10.073 min Scan# 1474

Delta R.T. -0.006 min

Lab File: VX044889.D

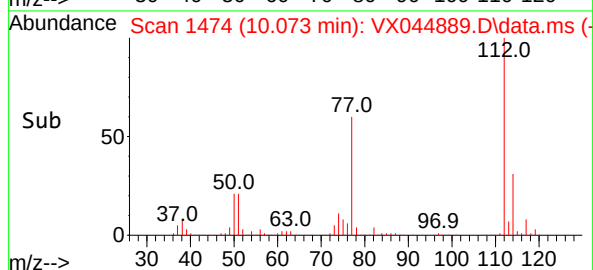
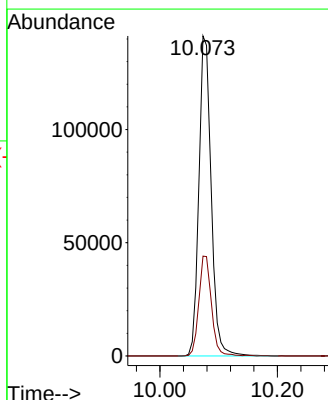
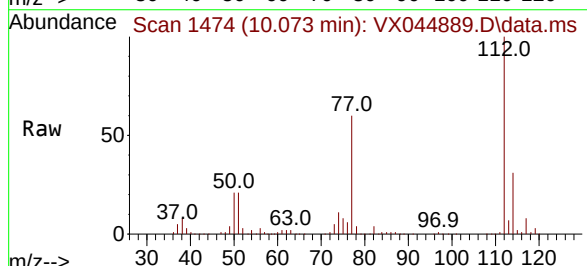
Acq: 10 Feb 2025 18:46

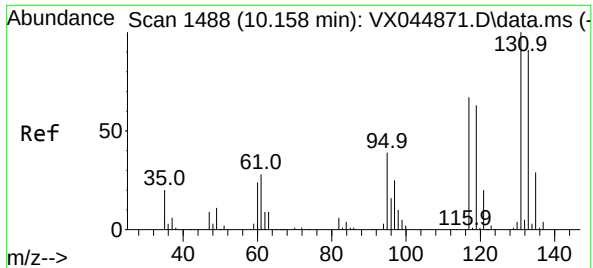
Tgt Ion:112 Resp: 204531

Ion Ratio Lower Upper

112 100

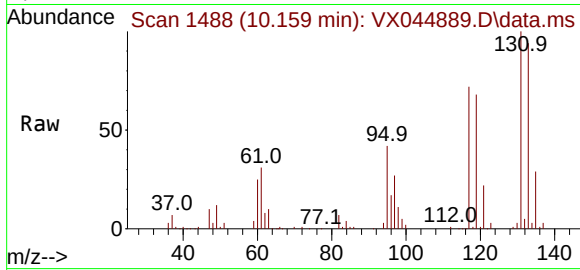
114 31.2 25.0 37.6





#66
1,1,1,2-Tetrachloroethane
Concen: 46.658 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

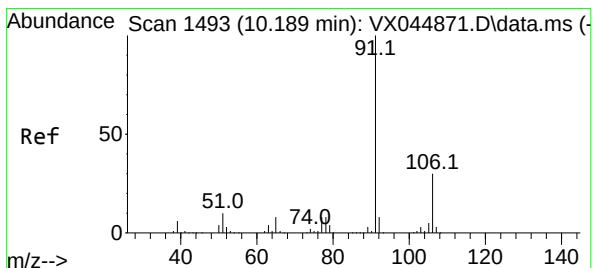
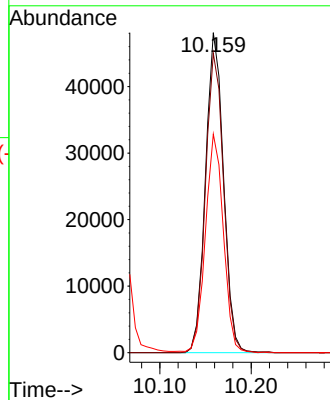
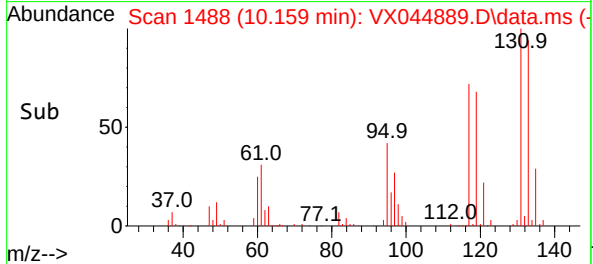
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MS



Tgt Ion:131 Resp: 65870
Ion Ratio Lower Upper
131 100
133 94.4 47.1 141.3
119 68.2 33.6 100.6

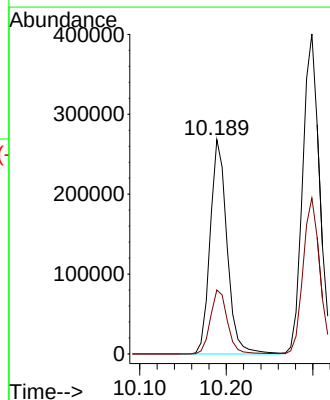
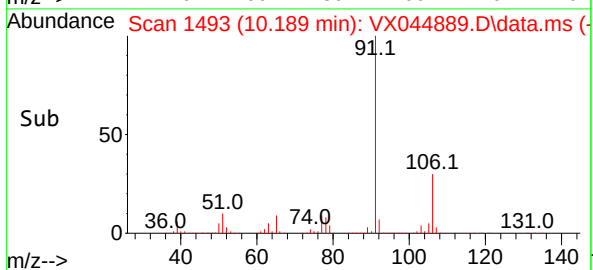
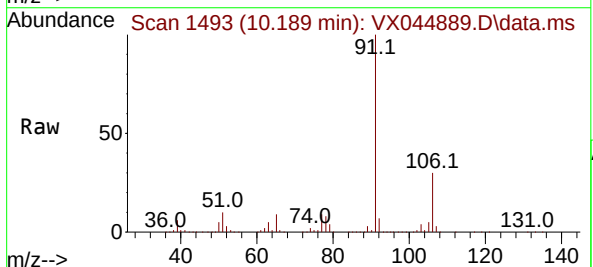
Manual Integrations
APPROVED

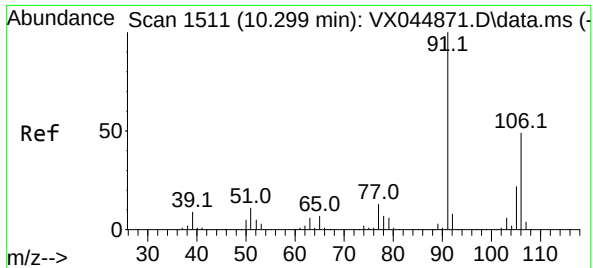
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#67
Ethyl Benzene
Concen: 46.975 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

Tgt Ion: 91 Resp: 363594
Ion Ratio Lower Upper
91 100
106 29.9 23.9 35.9





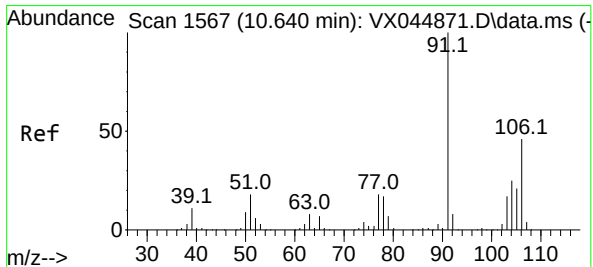
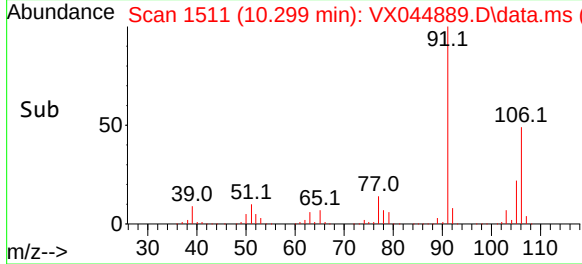
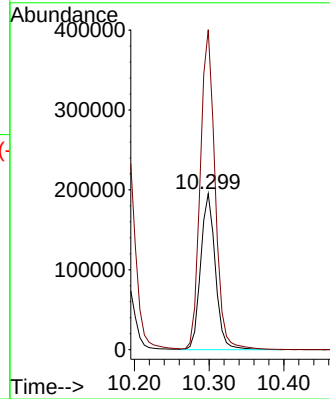
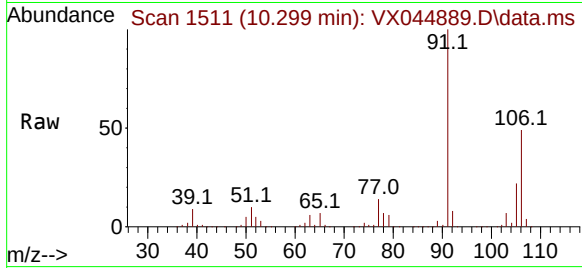
#68
m/p-Xylenes
Concen: 93.479 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MS

Tgt Ion:106 Resp: 266900
Ion Ratio Lower Upper
106 100
91 206.3 164.3 246.5

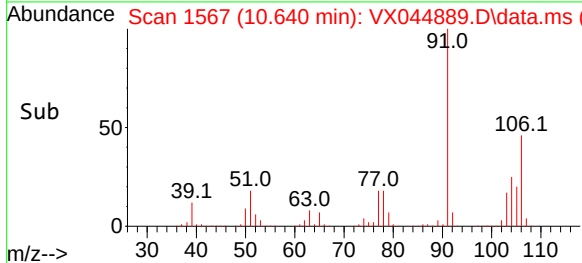
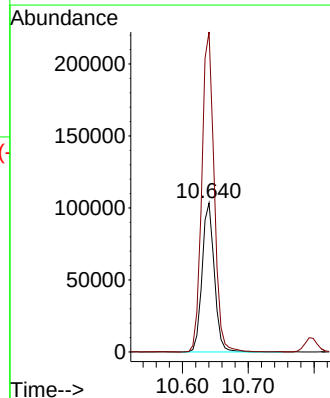
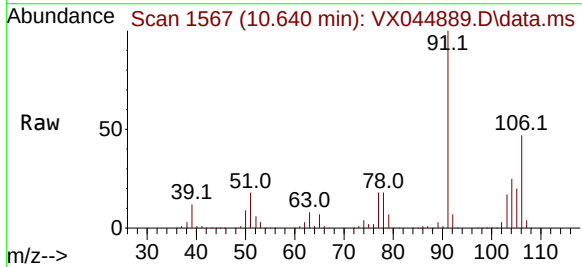
Manual Integrations
APPROVED

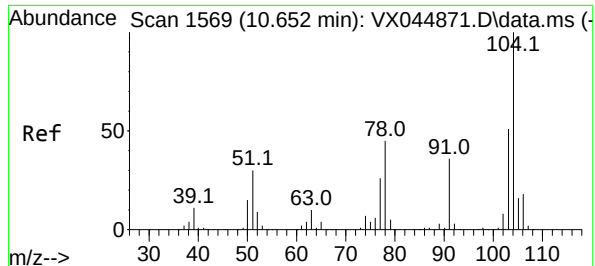
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#69
o-Xylene
Concen: 46.673 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

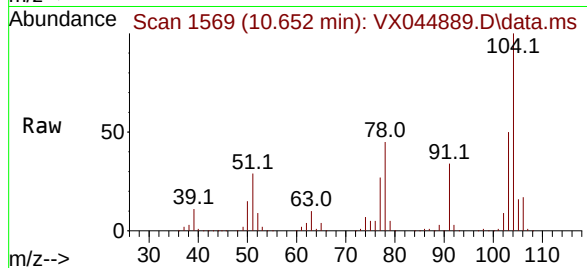
Tgt Ion:106 Resp: 133718
Ion Ratio Lower Upper
106 100
91 217.0 108.5 325.5





#70
Styrene
Concen: 47.922 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

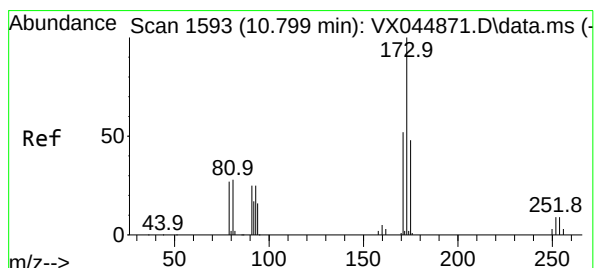
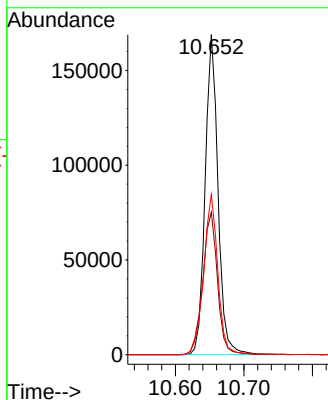
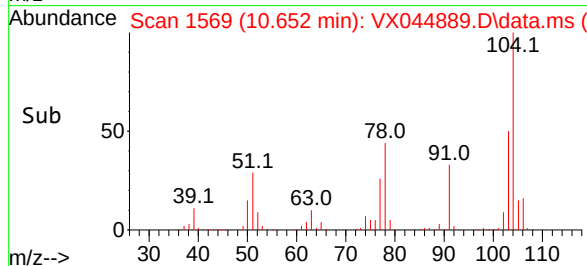
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MS



Tgt Ion:104 Resp: 22119
Ion Ratio Lower Upper
104 100
78 51.0 40.5 60.7
103 55.1 43.6 65.4

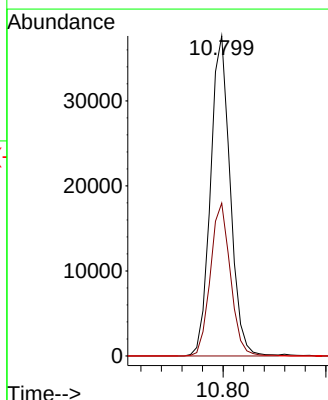
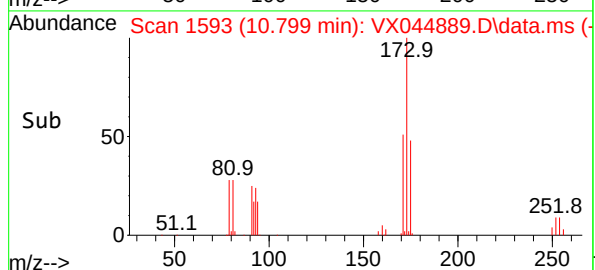
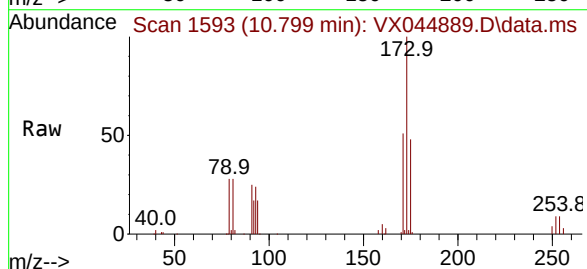
Manual Integrations
APPROVED

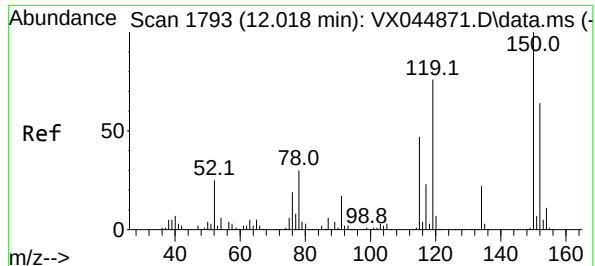
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#71
Bromoform
Concen: 47.374 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

Tgt Ion:173 Resp: 49913
Ion Ratio Lower Upper
173 100
175 48.6 24.3 72.8
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: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion:152 Resp: 88500

Ion Ratio Lower Upper

152 100

115 85.6 43.4 130.1

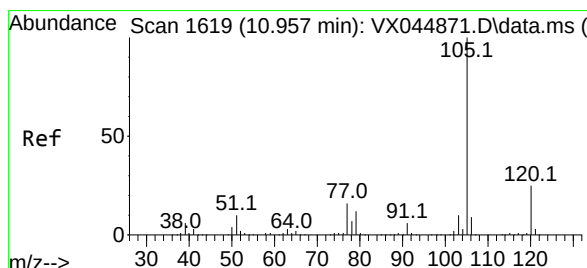
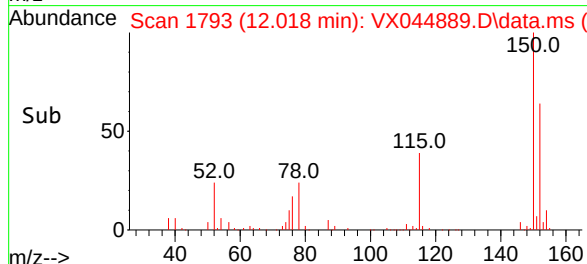
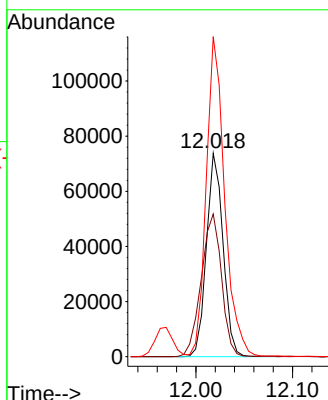
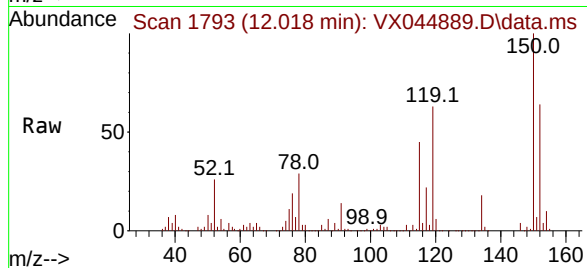
150 173.6 0.0 350.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#73

Isopropylbenzene

Concen: 46.954 ug/l

RT: 10.957 min Scan# 1619

Delta R.T. 0.000 min

Lab File: VX044889.D

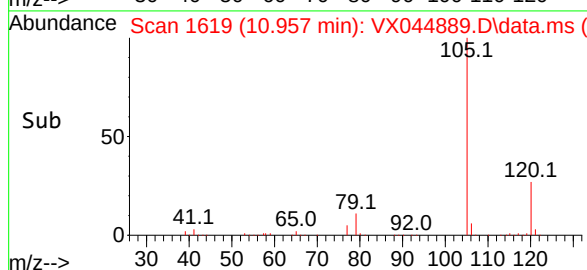
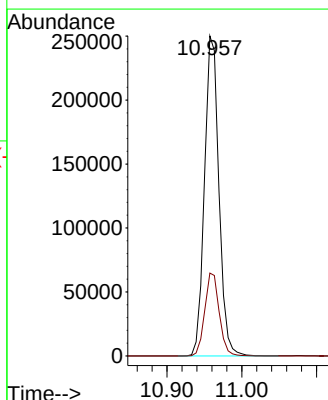
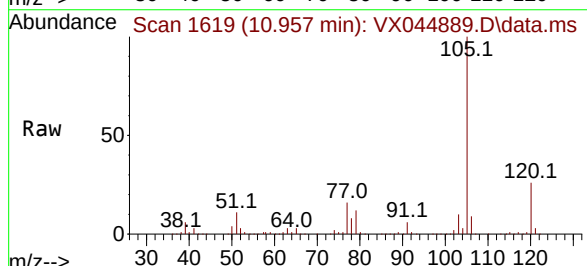
Acq: 10 Feb 2025 18:46

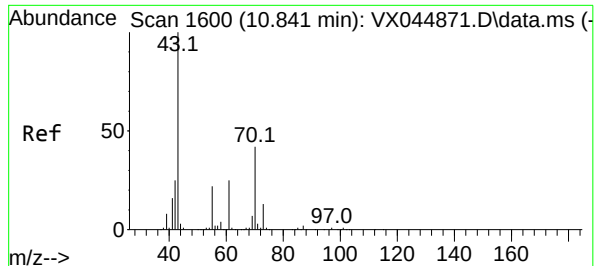
Tgt Ion:105 Resp: 334595

Ion Ratio Lower Upper

105 100

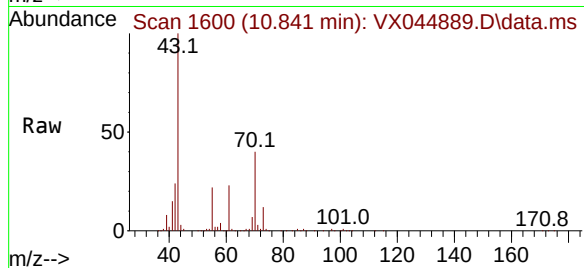
120 26.0 13.2 39.5





#74
N-ethyl acetate
Concen: 48.794 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

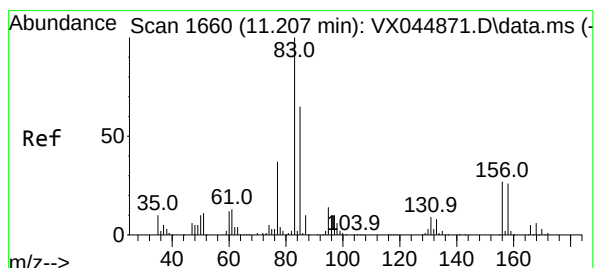
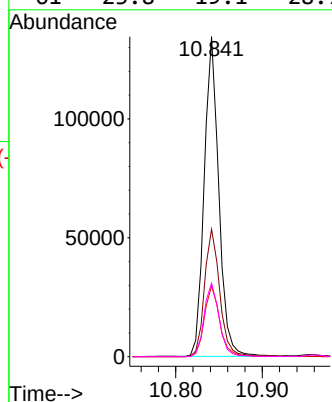
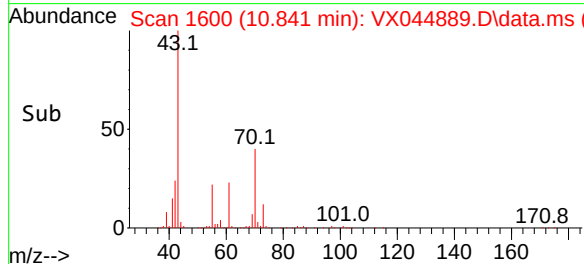
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MS



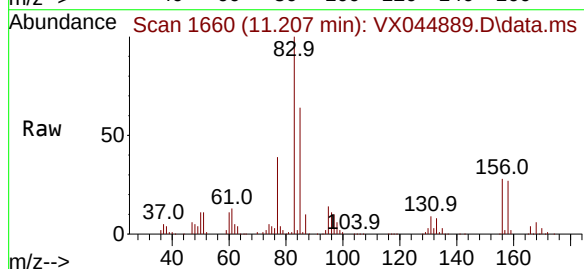
Tgt Ion: 43 Resp: 15734
Ion Ratio Lower Upper
43 100
70 41.8 33.7 50.5
55 23.6 18.6 27.8
61 23.8 19.1 28.7

Manual Integrations
APPROVED

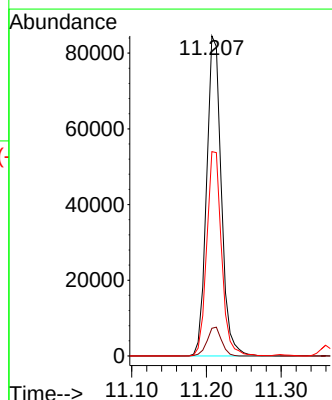
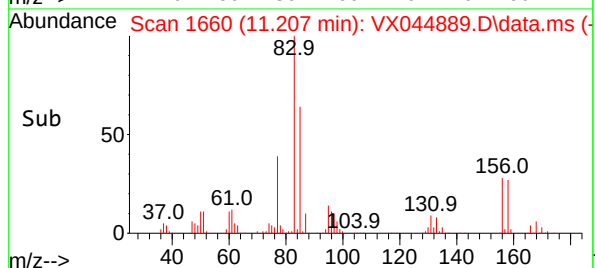
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

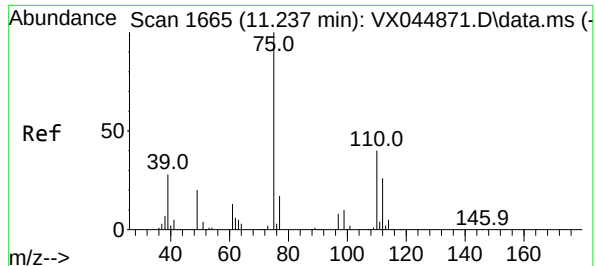


#75
1,1,2,2-Tetrachloroethane
Concen: 47.112 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46



Tgt Ion: 83 Resp: 115362
Ion Ratio Lower Upper
83 100
131 8.9 4.5 13.5
85 64.3 32.3 96.8





#76

1,2,3-Trichloropropane

Concen: 47.815 ug/l m

RT: 11.238 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion: 75 Resp: 9382

Ion Ratio Lower Upper

75 100

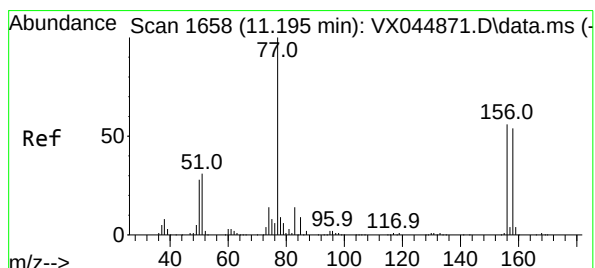
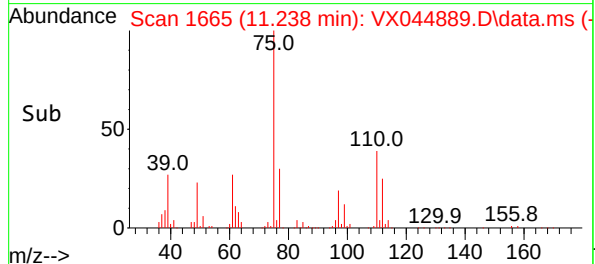
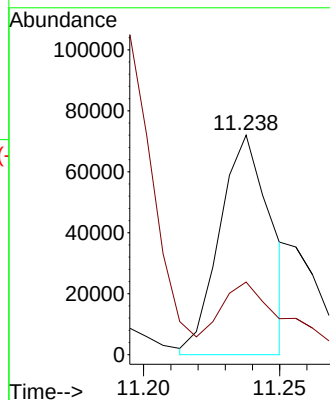
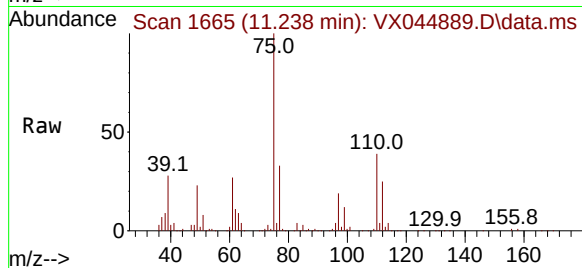
77 43.3 21.9 65.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#77

Bromobenzene

Concen: 47.702 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

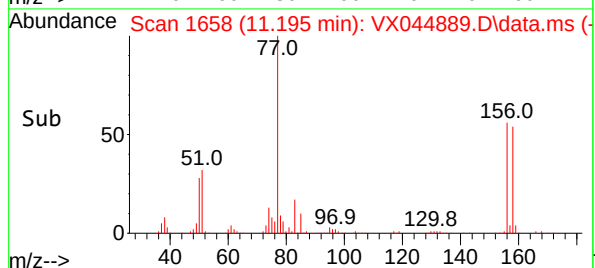
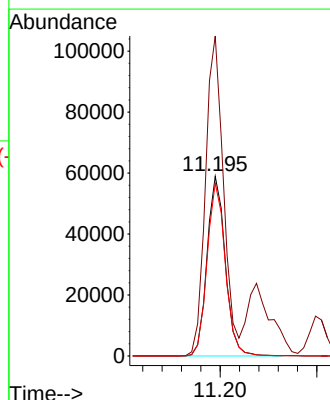
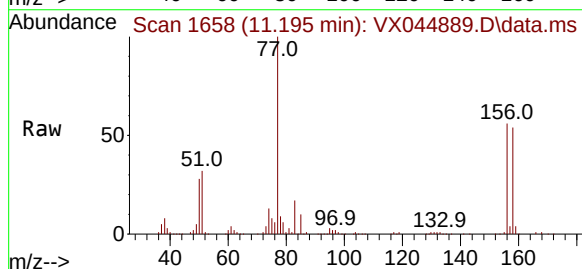
Tgt Ion:156 Resp: 77066

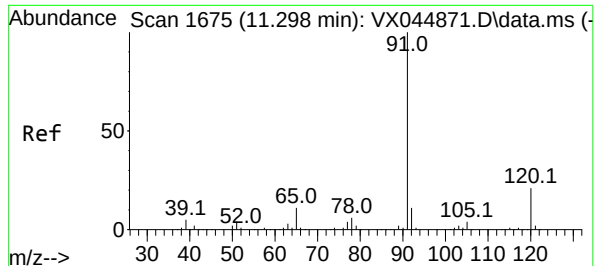
Ion Ratio Lower Upper

156 100

77 176.0 88.4 265.3

158 96.7 48.4 145.2





#78

n-propylbenzene

Concen: 47.471 ug/l

RT: 11.299 min Scan# 1675

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion: 91 Resp: 390458

Ion Ratio Lower Upper

91 100

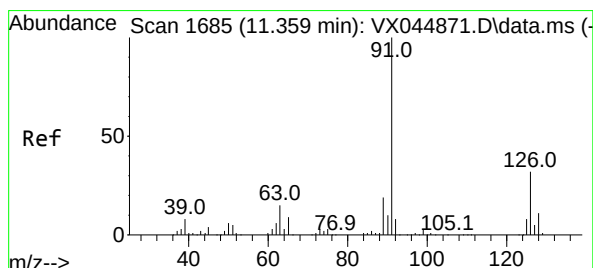
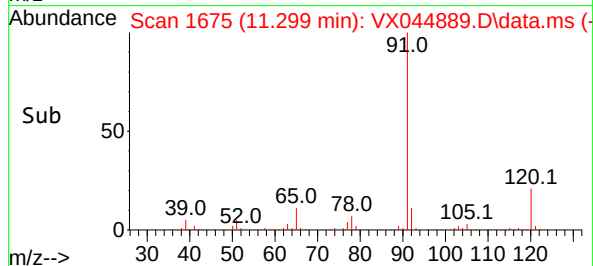
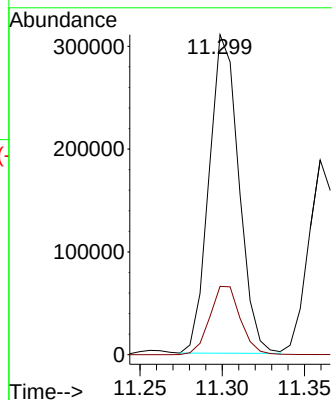
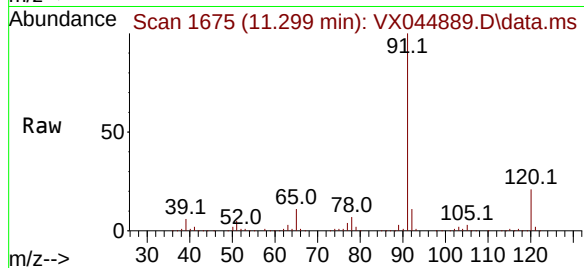
120 22.1 11.1 33.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#79

2-Chlorotoluene

Concen: 46.206 ug/l

RT: 11.360 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VX044889.D

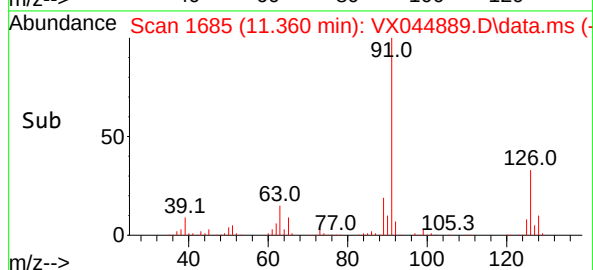
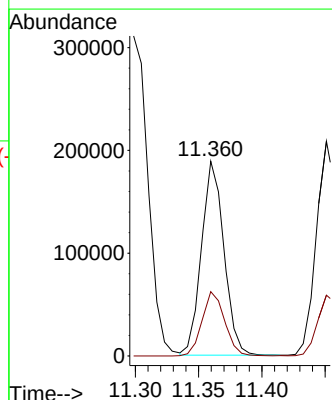
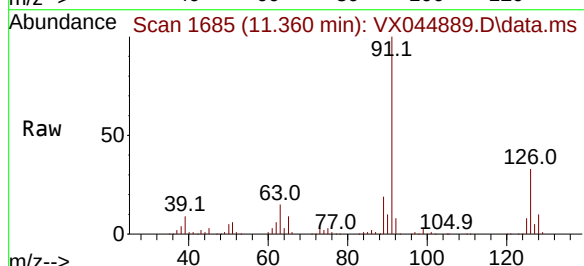
Acq: 10 Feb 2025 18:46

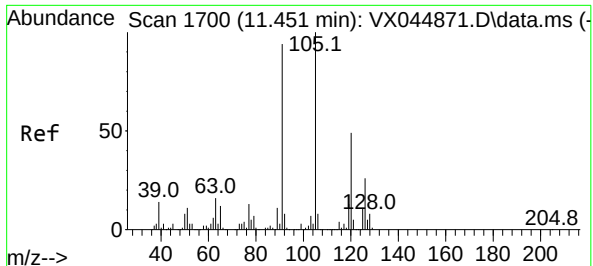
Tgt Ion: 91 Resp: 233573

Ion Ratio Lower Upper

91 100

126 33.5 16.2 48.6





#80

1,3,5-Trimethylbenzene

Concen: 46.918 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion:105 Resp: 27131

Ion Ratio Lower Upper

105 100

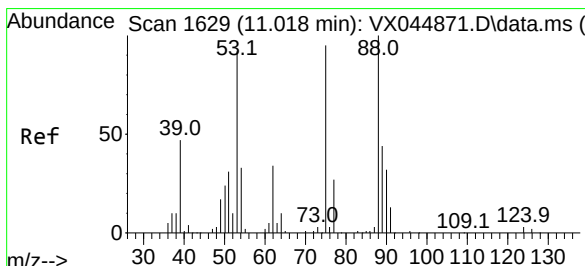
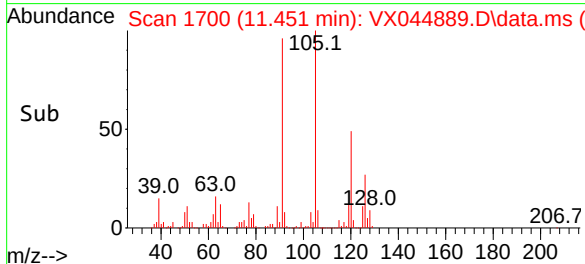
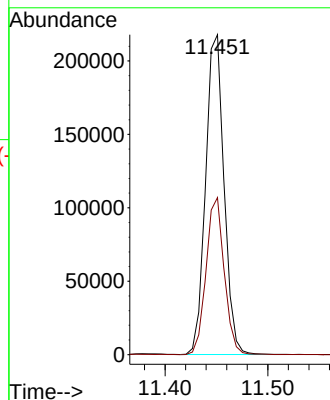
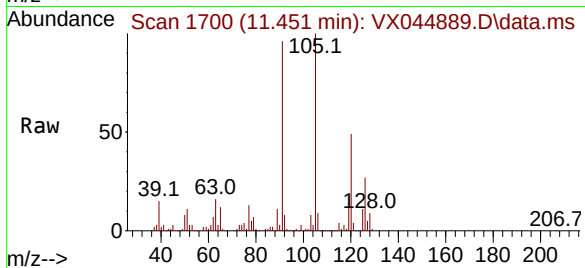
120 48.6 24.0 72.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#81

trans-1,4-Dichloro-2-butene

Concen: 45.993 ug/l

RT: 11.018 min Scan# 1629

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

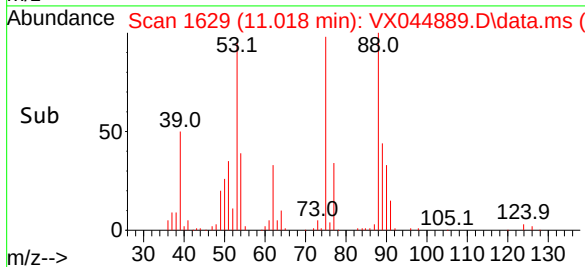
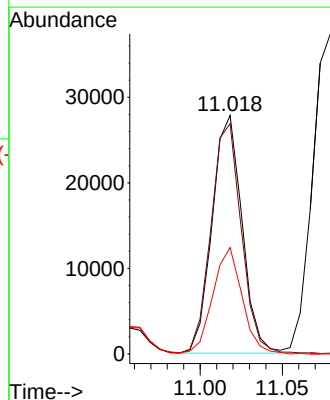
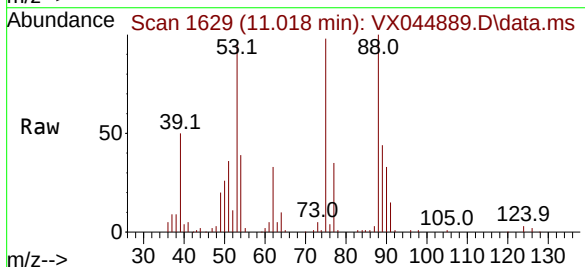
Tgt Ion: 75 Resp: 35083

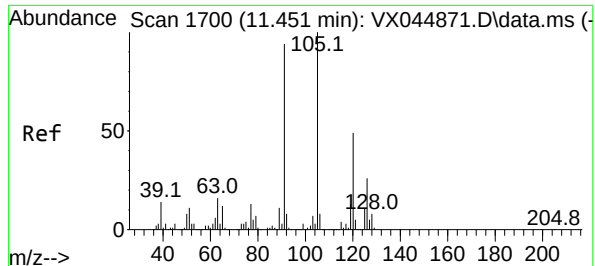
Ion Ratio Lower Upper

75 100

53 99.4 78.0 117.0

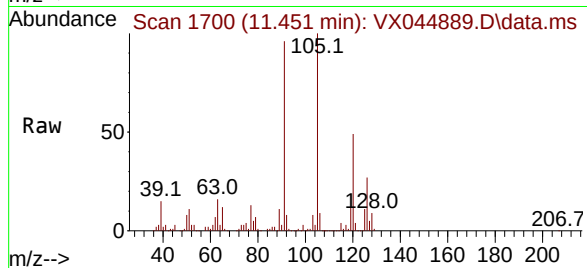
89 44.0 36.6 54.8





#82
4-Chlorotoluene
Concen: 47.195 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

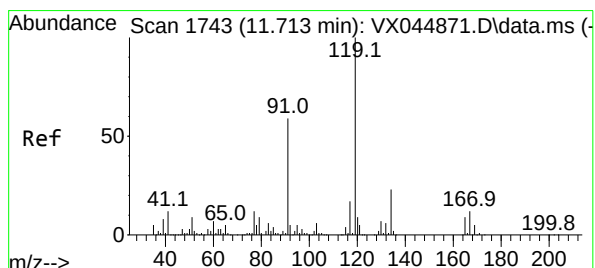
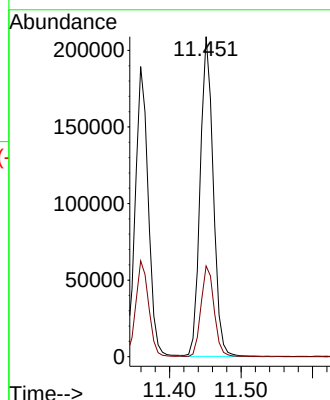
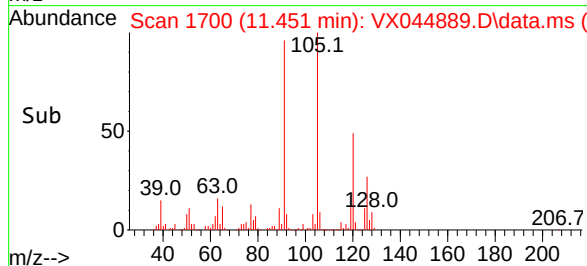
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MS



Tgt Ion: 91 Resp: 263940
Ion Ratio Lower Upper
91 100
126 28.6 14.2 42.6

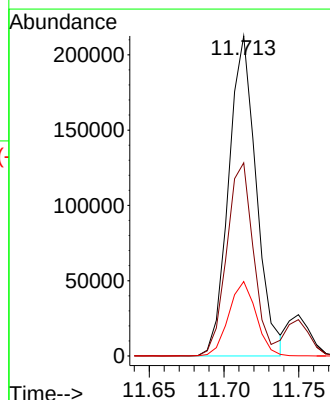
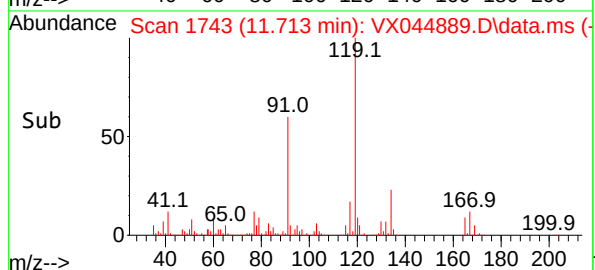
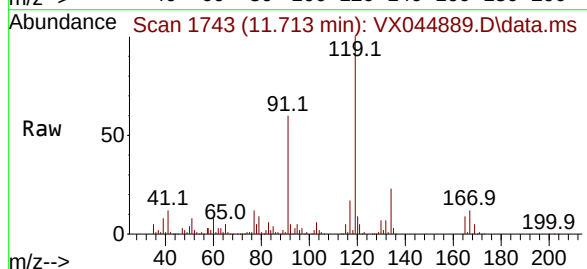
Manual Integrations
APPROVED

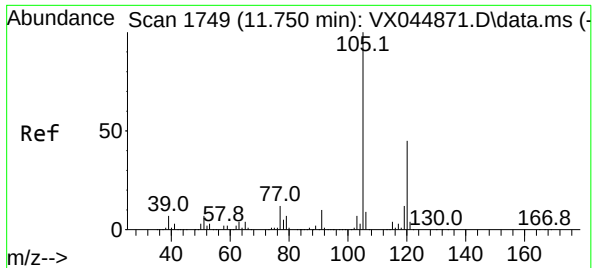
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#83
tert-Butylbenzene
Concen: 46.731 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

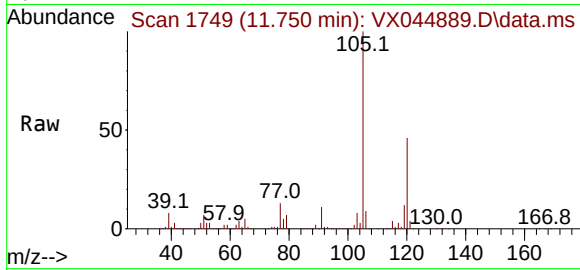
Tgt Ion:119 Resp: 273377
Ion Ratio Lower Upper
119 100
91 58.3 29.1 87.4
134 23.1 11.5 34.5





#84
1,2,4-Trimethylbenzene
Concen: 47.783 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

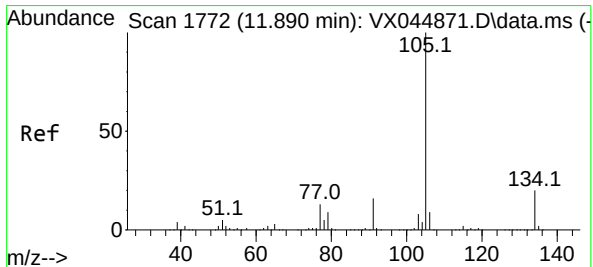
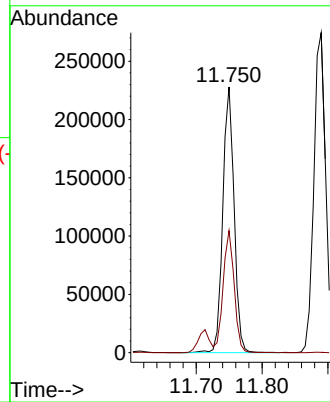
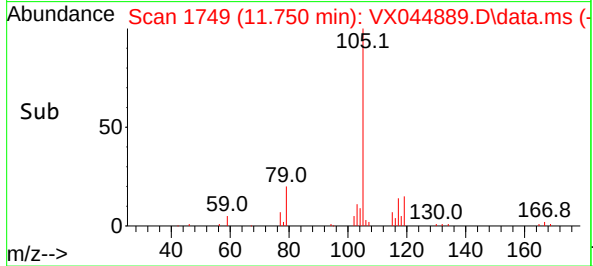
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MS



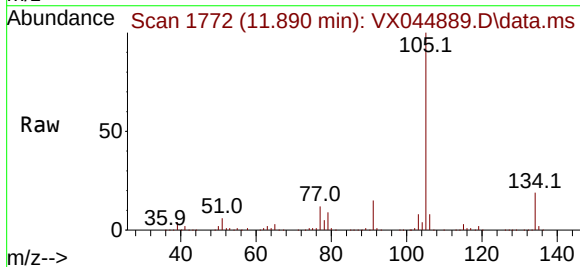
Tgt Ion:105 Resp: 272720
Ion Ratio Lower Upper
105 100
120 45.0 22.4 67.0

Manual Integrations
APPROVED

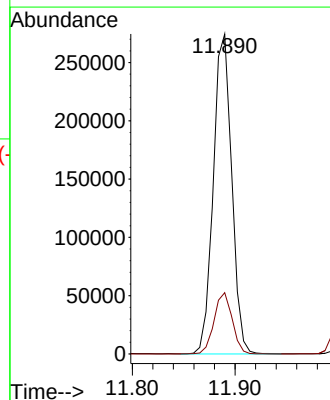
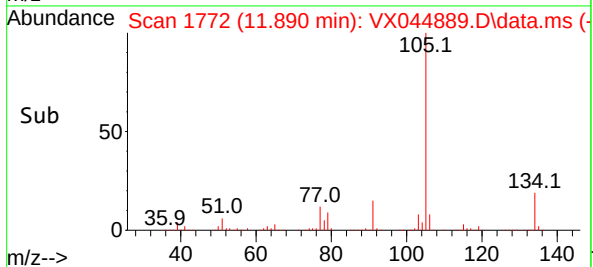
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

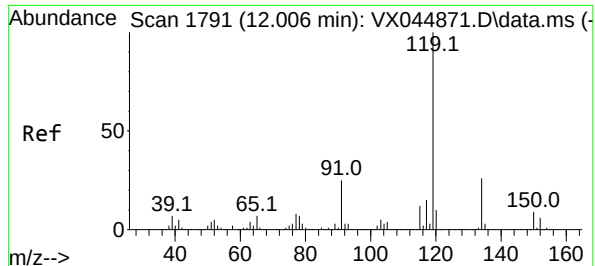


#85
sec-Butylbenzene
Concen: 47.015 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46



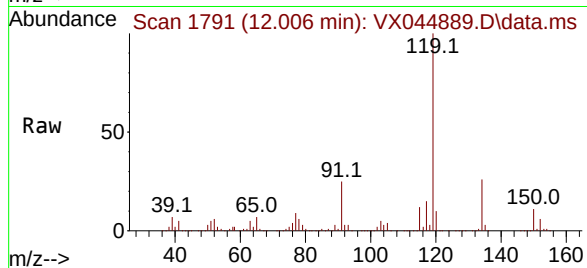
Tgt Ion:105 Resp: 340583
Ion Ratio Lower Upper
105 100
134 18.9 9.8 29.3





#86
p-Isopropyltoluene
Concen: 46.815 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

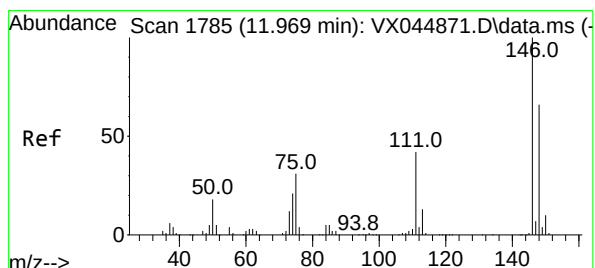
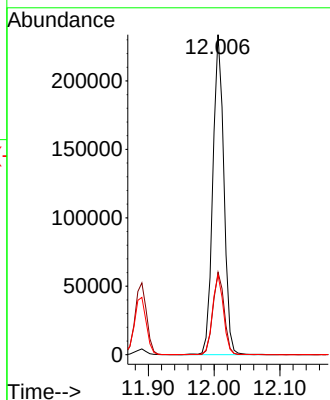
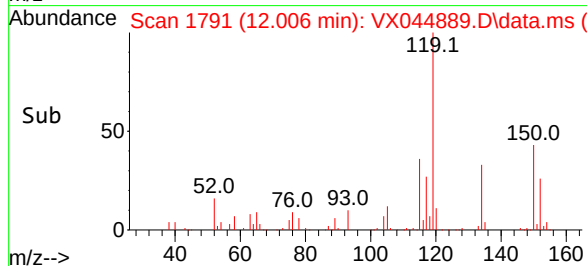
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MS



Tgt Ion:119 Resp: 272720
Ion Ratio Lower Upper
119 100
134 26.2 13.0 38.9
91 24.8 12.1 36.3

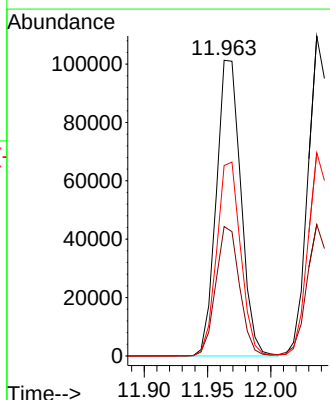
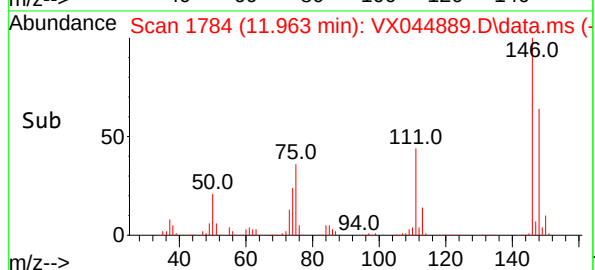
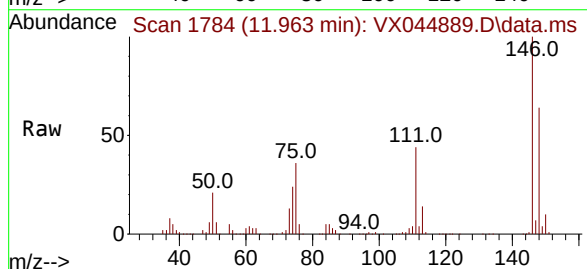
Manual Integrations
APPROVED

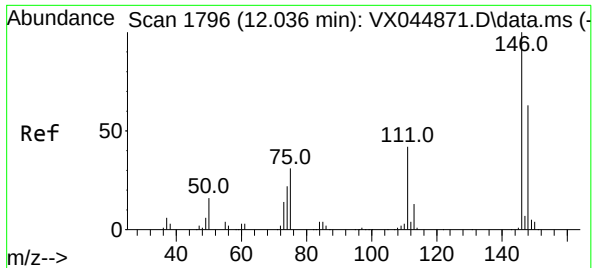
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#87
1,3-Dichlorobenzene
Concen: 45.991 ug/l
RT: 11.963 min Scan# 1784
Delta R.T. -0.006 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

Tgt Ion:146 Resp: 136636
Ion Ratio Lower Upper
146 100
111 42.5 21.2 63.6
148 64.0 32.5 97.5





#88

1,4-Dichlorobenzene

Concen: 45.228 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion:146 Resp: 13586

Ion Ratio Lower Upper

146 100

111 41.2 20.4 61.3

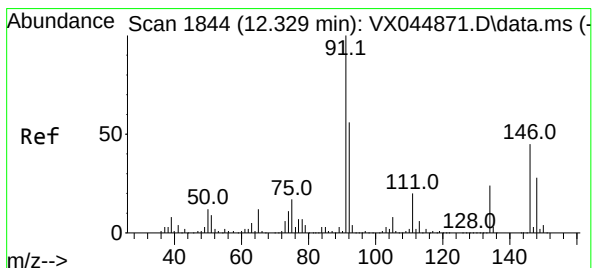
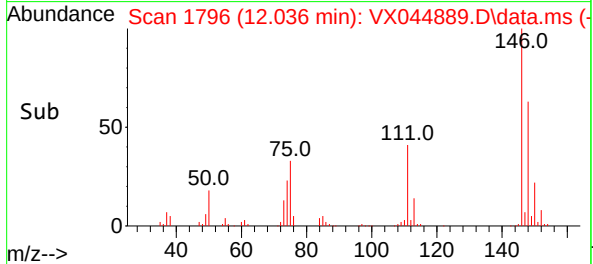
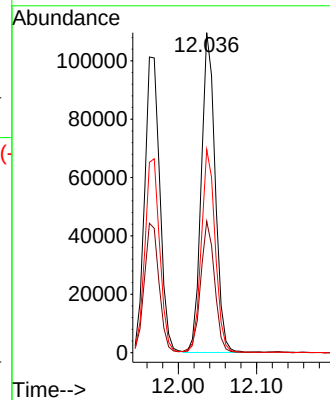
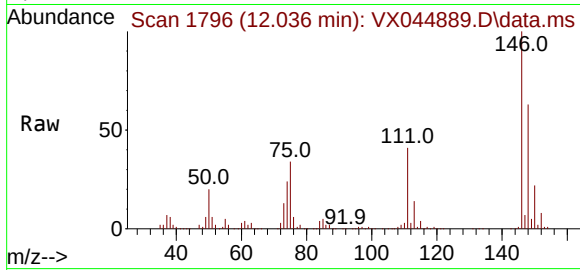
148 63.0 32.0 96.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#89

n-Butylbenzene

Concen: 46.753 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

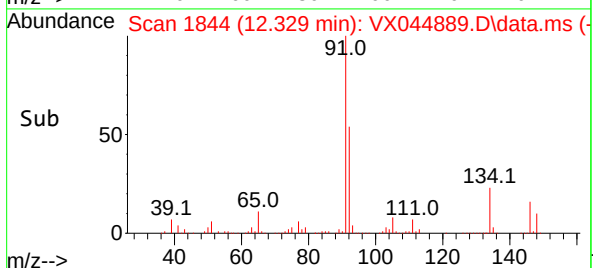
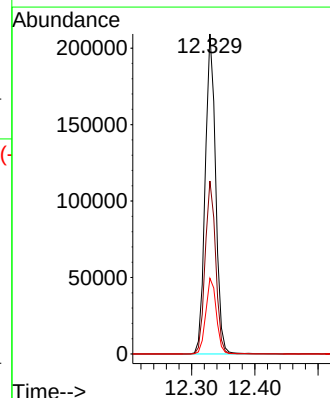
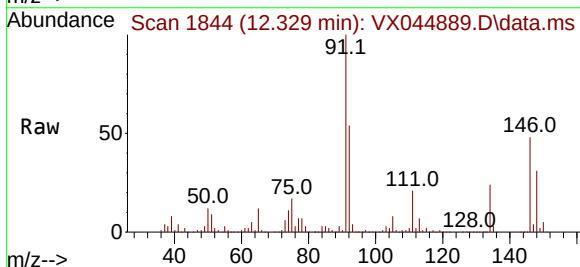
Tgt Ion: 91 Resp: 240954

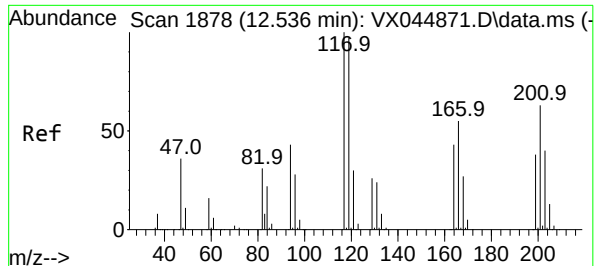
Ion Ratio Lower Upper

91 100

92 54.5 27.2 81.6

134 24.0 12.1 36.3





#90

Hexachloroethane

Concen: 44.480 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion:117 Resp: 48519

Ion Ratio Lower Upper

117 100

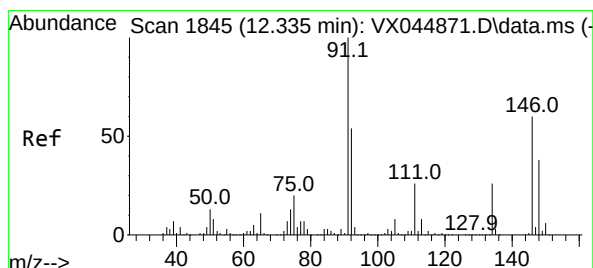
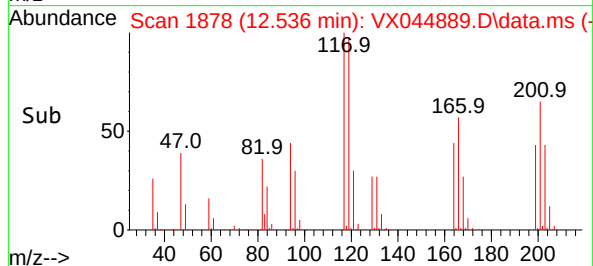
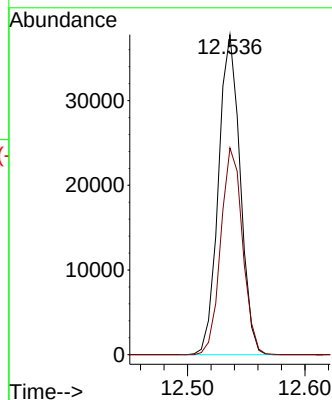
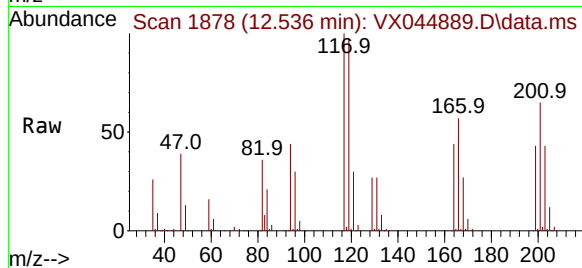
201 64.8 32.5 97.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#91

1,2-Dichlorobenzene

Concen: 47.486 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

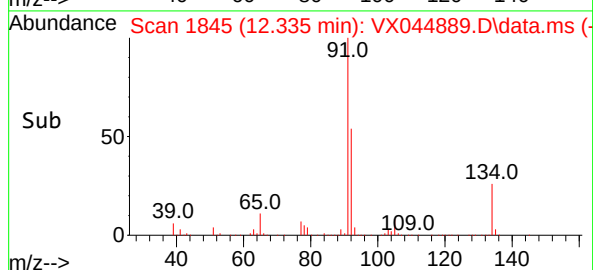
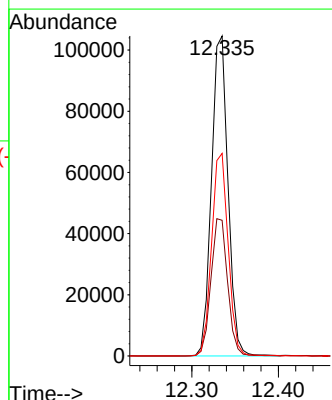
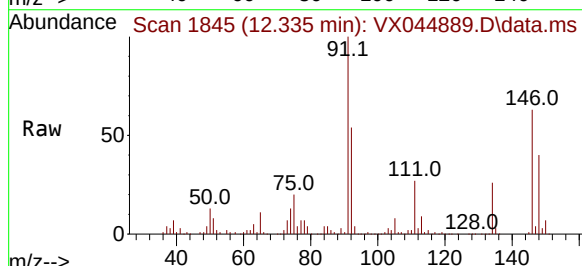
Tgt Ion:146 Resp: 138655

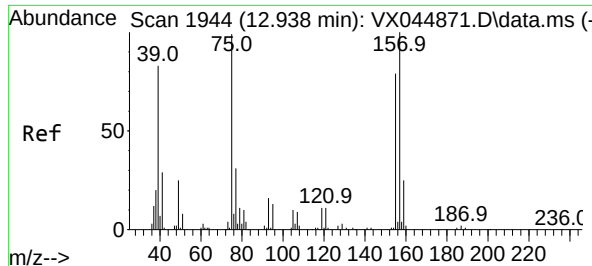
Ion Ratio Lower Upper

146 100

111 43.2 21.8 65.4

148 63.7 31.9 95.9





#92

1,2-Dibromo-3-Chloropropane

Concen: 48.842 ug/l

RT: 12.939 min Scan# 1944

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion: 75 Resp: 21828

Ion Ratio Lower Upper

75 100

155 81.1 40.5 121.4

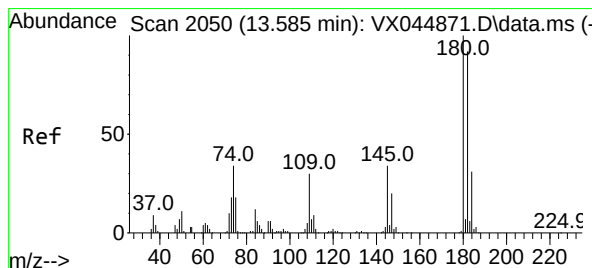
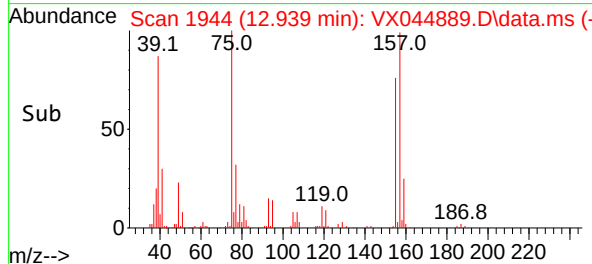
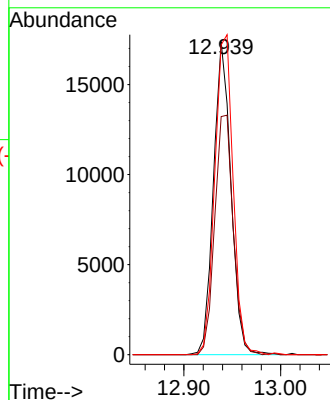
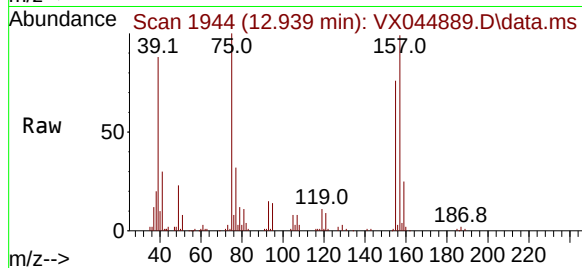
157 106.9 51.4 154.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#93

1,2,4-Trichlorobenzene

Concen: 45.087 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

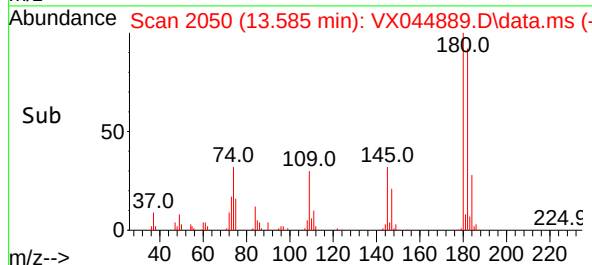
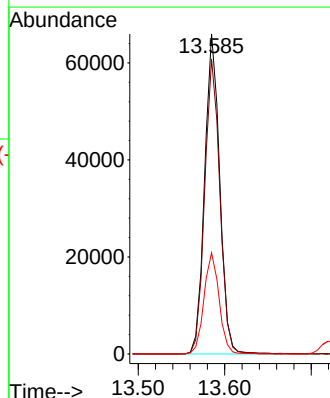
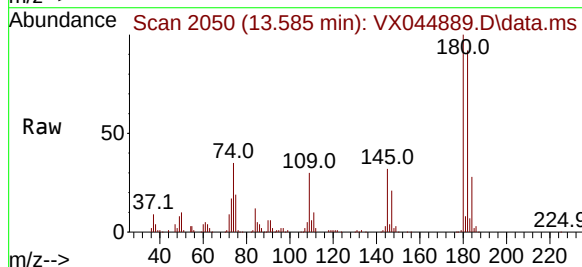
Tgt Ion:180 Resp: 79662

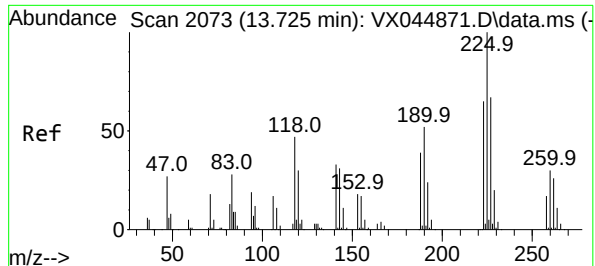
Ion Ratio Lower Upper

180 100

182 93.0 47.6 142.8

145 31.8 16.4 49.1





#94

Hexachlorobutadiene

Concen: 41.001 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MS

Tgt Ion:225 Resp: 2875

Ion Ratio Lower Upper

225 100

223 60.1 31.4 94.2

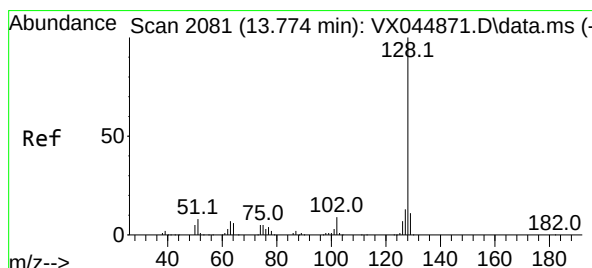
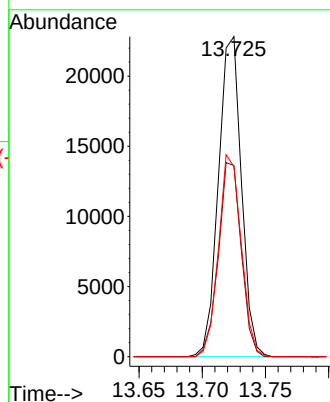
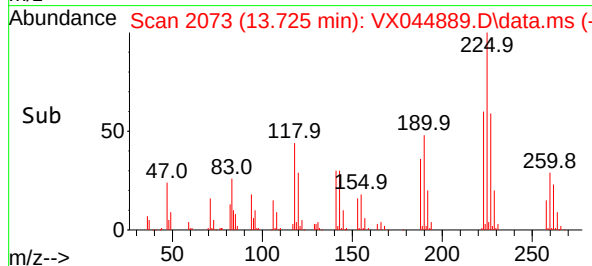
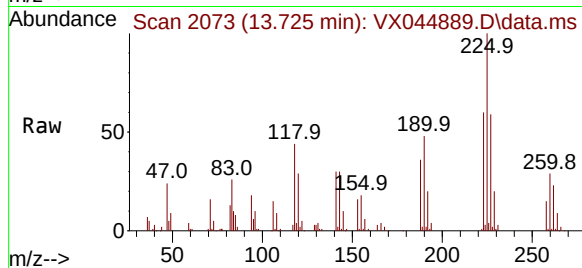
227 62.3 32.3 96.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#95

Naphthalene

Concen: 48.072 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX044889.D

Acq: 10 Feb 2025 18:46

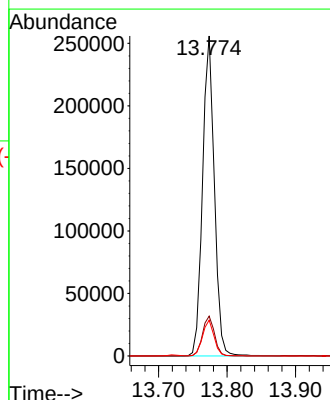
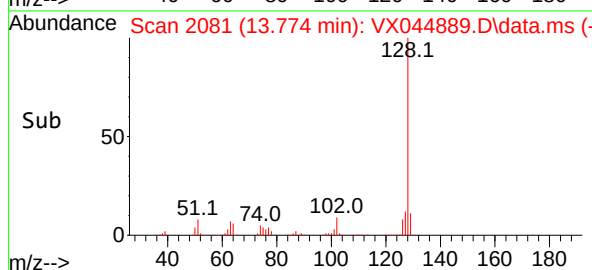
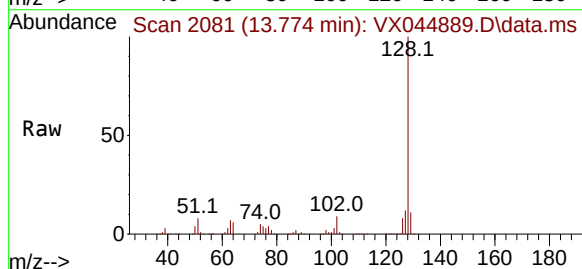
Tgt Ion:128 Resp: 307033

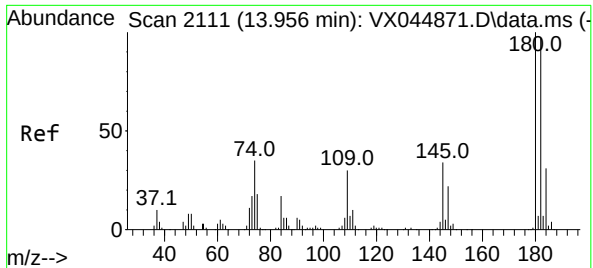
Ion Ratio Lower Upper

128 100

127 12.7 10.1 15.1

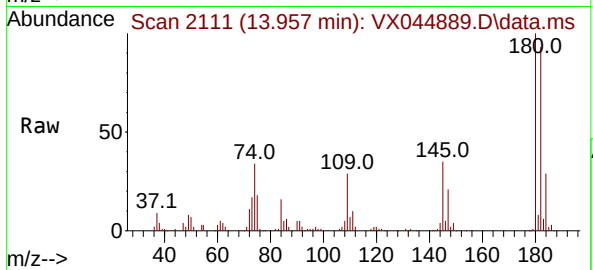
129 11.0 8.9 13.3





#96
1,2,3-Trichlorobenzene
Concen: 45.834 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044889.D
Acq: 10 Feb 2025 18:46

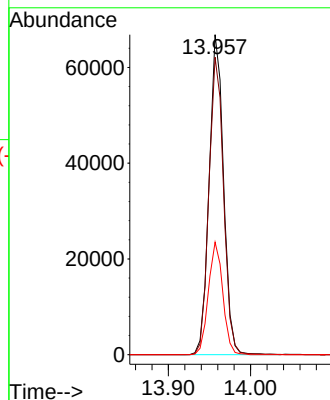
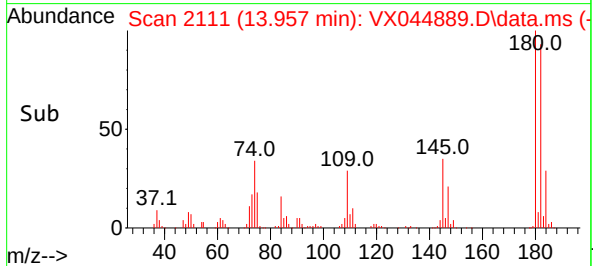
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MS



Tgt Ion:180 Resp: 81600
Ion Ratio Lower Upper
180 100
182 94.6 47.9 143.6
145 35.1 17.1 51.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	01/28/25	
Project:	CTO WE13			Date Received:	01/30/25	
Client Sample ID:	BP-VPB-192-GW-360-362MSD			SDG No.:	Q1250	
Lab Sample ID:	Q1250-08MSD			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044890.D	1		02/10/25 19:09	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	48.9		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	47.9		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	50.2		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	52.3		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	49.5		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	49.6		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	50.2		0.26	0.75	1.00	ug/L
67-64-1	Acetone	260		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	49.3		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	51.1		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	50.3		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	50.8		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	51.2		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	270		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	50.5		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	50.7		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	50.8		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	51.0		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	49.1		0.19	0.50	1.00	ug/L
71-43-2	Benzene	51.3		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	51.8		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	51.2		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	51.2		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	52.4		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	280		0.75	2.50	5.00	ug/L
108-88-3	Toluene	51.8		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	51.8		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	52.5		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	52.6		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	280		1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	01/28/25	
Project:	CTO WE13			Date Received:	01/30/25	
Client Sample ID:	BP-VPB-192-GW-360-362MSD			SDG No.:	Q1250	
Lab Sample ID:	Q1250-08MSD			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044890.D	1		02/10/25 19:09	VX021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	52.8		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	48.5		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	50.5		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	50.4		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	100		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	50.4		0.14	0.50	1.00	ug/L
100-42-5	Styrene	52.6		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	53.2		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	50.6		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	50.6		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	49.9		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	49.2		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	51.7		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.2		81 - 118		100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	51.0		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.6		85 - 114		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	114000	5.544				
540-36-3	1,4-Difluorobenzene	209000	6.757				
3114-55-4	Chlorobenzene-d5	187000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	83000	12.018				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of OC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044890.D
 Acq On : 10 Feb 2025 19:09
 Operator : JC/MD
 Sample : Q1250-08MSD
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-192-GW-360-362MSD

Quant Time: Feb 11 06:10:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	113791	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	209107	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	187126	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	83002	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	83637	50.211	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.420%			
35) Dibromofluoromethane	5.379	113	68564	50.432	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.860%			
50) Toluene-d8	8.647	98	262105	50.983	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.960%			
62) 4-Bromofluorobenzene	11.079	95	89489	51.634	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.260%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	78826	49.391	ug/l	98
3) Chloromethane	1.301	50	95026	48.921	ug/l	99
4) Vinyl Chloride	1.374	62	90123	47.892	ug/l	97
5) Bromomethane	1.593	94	28276	50.214	ug/l	96
6) Chloroethane	1.666	64	37847	52.291	ug/l	100
7) Trichlorofluoromethane	1.868	101	117710	49.463	ug/l	98
8) Diethyl Ether	2.136	74	42019	48.687	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	71305	49.592	ug/l	100
10) Methyl Iodide	2.441	142	95751	51.384	ug/l	98
11) Tert butyl alcohol	2.983	59	73611	238.212	ug/l	100
12) 1,1-Dichloroethene	2.306	96	73604	50.184	ug/l	98
13) Acrolein	2.233	56	83823	262.912	ug/l	99
14) Allyl chloride	2.654	41	132495	49.986	ug/l	99
15) Acrylonitrile	3.062	53	220250	266.950	ug/l	98
16) Acetone	2.386	43	177115	264.499	ug/l	97
17) Carbon Disulfide	2.502	76	198280	49.300	ug/l	99
18) Methyl Acetate	2.703	43	109722	51.925	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	238457	51.100	ug/l	100
20) Methylene Chloride	2.782	84	82466	50.279	ug/l	99
21) trans-1,2-Dichloroethene	3.087	96	73300	50.779	ug/l	97
22) Diisopropyl ether	3.757	45	260970	52.041	ug/l	98
23) Vinyl Acetate	3.715	43	1042522	255.003	ug/l	100
24) 1,1-Dichloroethane	3.599	63	143563	51.164	ug/l	98
25) 2-Butanone	4.556	43	297195	273.321	ug/l	98
26) 2,2-Dichloropropane	4.471	77	103076	46.322	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	87985	50.743	ug/l	99
28) Bromochloromethane	4.891	49	70338	52.162	ug/l	99
29) Tetrahydrofuran	5.001	42	190541	263.899	ug/l	99
30) Chloroform	5.086	83	138285	50.818	ug/l	98
31) Cyclohexane	5.458	56	125809	48.635	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	117714	51.000	ug/l	100
36) 1,1-Dichloropropene	5.684	75	97836	49.879	ug/l	100
37) Ethyl Acetate	4.708	43	109948	50.396	ug/l	100
38) Carbon Tetrachloride	5.666	117	97095	50.515	ug/l	97
39) Methylcyclohexane	7.373	83	124496	49.094	ug/l	95
40) Benzene	6.031	78	314426	51.337	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
 Data File : VX044890.D
 Acq On : 10 Feb 2025 19:09
 Operator : JC/MD
 Sample : Q1250-08MSD
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-192-GW-360-362MSD

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 06:10:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	63424	54.311	ug/l	98
42) 1,2-Dichloroethane	6.080	62	101207	51.847	ug/l	99
43) Isopropyl Acetate	6.336	43	185380	52.618	ug/l	100
44) Trichloroethene	7.123	130	71692	51.210	ug/l	100
45) 1,2-Dichloropropane	7.428	63	78085	51.245	ug/l	99
46) Dibromomethane	7.580	93	54189	51.280	ug/l	99
47) Bromodichloromethane	7.818	83	107116	52.350	ug/l	100
48) Methyl methacrylate	7.690	41	89624	53.952	ug/l	99
49) 1,4-Dioxane	7.665	88	32411	909.384	ug/l	98
51) 4-Methyl-2-Pentanone	8.574	43	601637	280.896	ug/l	100
52) Toluene	8.714	92	189112	51.845	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	107202	51.774	ug/l	97
54) cis-1,3-Dichloropropene	8.360	75	121253	52.522	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	73710	52.567	ug/l	98
56) Ethyl methacrylate	9.116	69	125529	55.428	ug/l	99
57) 1,3-Dichloropropane	9.305	76	128784	52.491	ug/l	100
59) 2-Hexanone	9.427	43	439312	284.672	ug/l	99
60) Dibromochloromethane	9.519	129	79194	52.810	ug/l	99
61) 1,2-Dibromoethane	9.604	107	75331	53.005	ug/l	99
64) Tetrachloroethene	9.269	164	57220	48.487	ug/l	99
65) Chlorobenzene	10.073	112	203096	50.532	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	65857	50.908	ug/l	99
67) Ethyl Benzene	10.189	91	357538	50.410	ug/l	98
68) m/p-Xylenes	10.299	106	269804	103.122	ug/l	98
69) o-Xylene	10.640	106	132356	50.416	ug/l	99
70) Styrene	10.653	104	222298	52.558	ug/l	100
71) Bromoform	10.799	173	51369	53.207	ug/l #	100
73) Isopropylbenzene	10.957	105	338076	50.586	ug/l	100
74) N-amyl acetate	10.842	43	160948	53.219	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	116145	50.574	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	95889m	52.106	ug/l	
77) Bromobenzene	11.195	156	77264	50.993	ug/l	98
78) n-propylbenzene	11.299	91	393286	50.983	ug/l	100
79) 2-Chlorotoluene	11.360	91	235674	49.710	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	275124	50.729	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	35443	49.543	ug/l	98
82) 4-Chlorotoluene	11.451	91	265431	50.605	ug/l	99
83) tert-Butylbenzene	11.713	119	275996	50.304	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	278162	51.965	ug/l	100
85) sec-Butylbenzene	11.890	105	342516	50.415	ug/l	99
86) p-Isopropyltoluene	12.006	119	275690	50.460	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	139069	49.911	ug/l	98
88) 1,4-Dichlorobenzene	12.036	146	138481	49.155	ug/l	100
89) n-Butylbenzene	12.329	91	245231	50.735	ug/l	99
90) Hexachloroethane	12.536	117	49761	48.641	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	141511	51.675	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	22744	54.263	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	79208	47.800	ug/l	98
94) Hexachlorobutadiene	13.719	225	28426	43.212	ug/l	98
95) Naphthalene	13.774	128	315005	52.588	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	84666	50.706	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044890.D
Acq On : 10 Feb 2025 19:09
Operator : JC/MD
Sample : Q1250-08MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 06:10:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

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

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

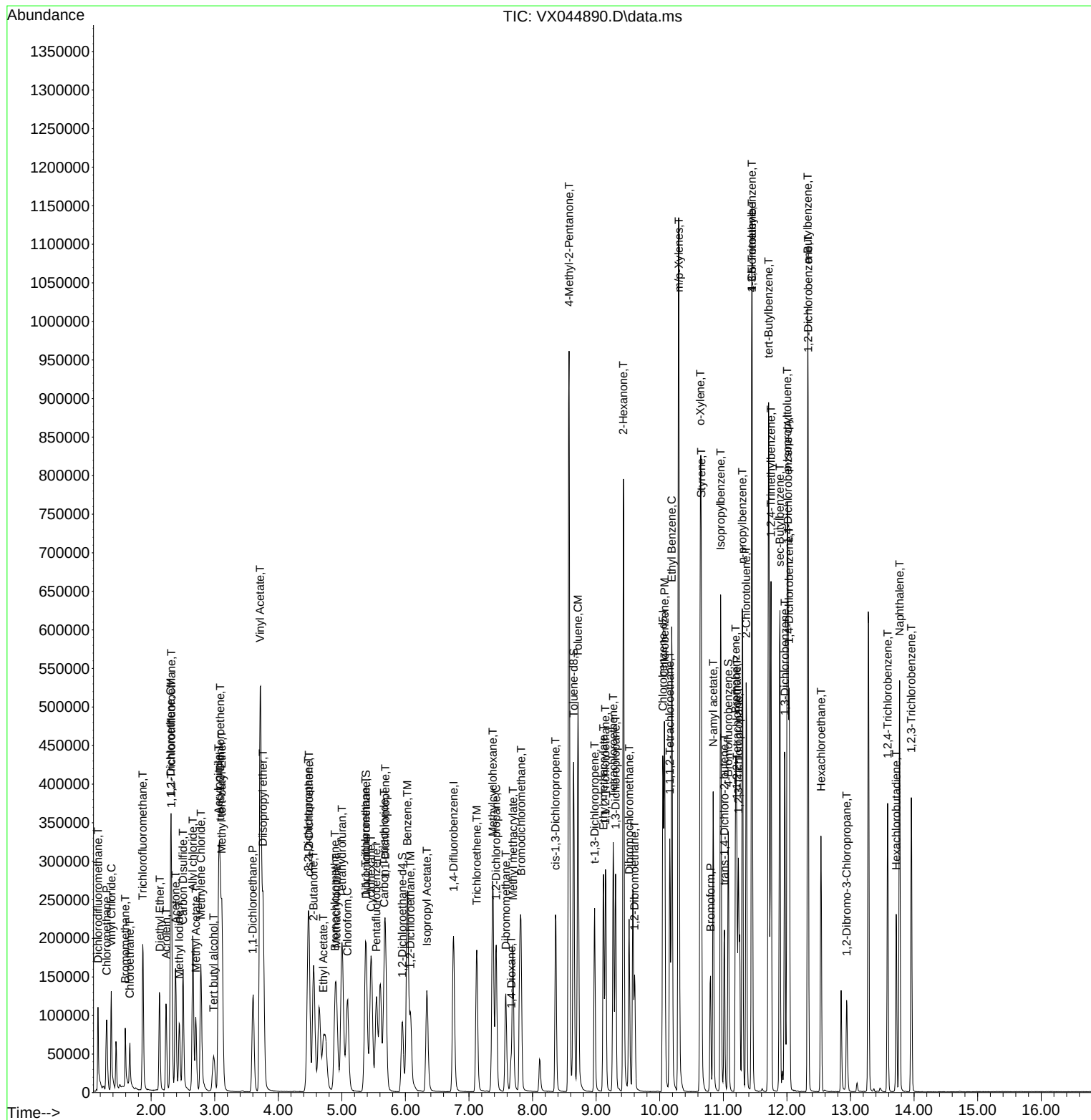

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044890.D
Acq On    : 10 Feb 2025   19:09
Operator  : JC/MD
Sample    : Q1250-08MSD
Misc      : 5.0mL/MSVOA_X/WATER
ALS Vial  : 25   Sample Multiplier: 1
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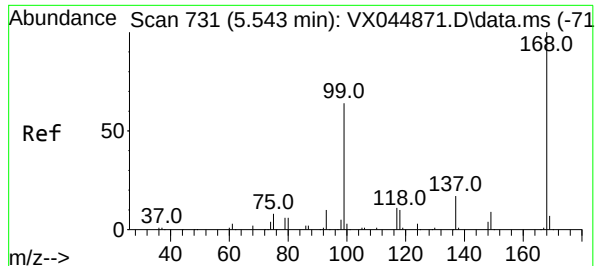
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

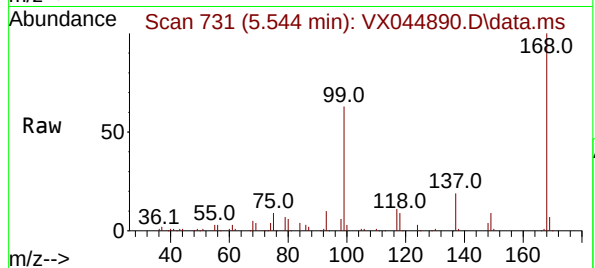
Quant Time: Feb 11 06:10:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 731
Delta R.T. 0.001 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

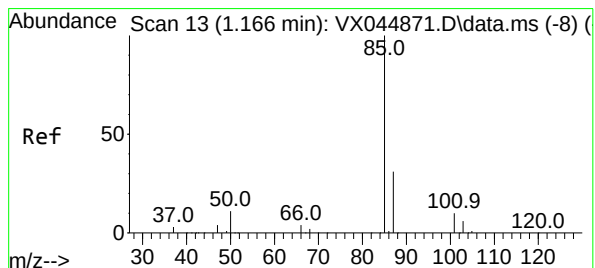
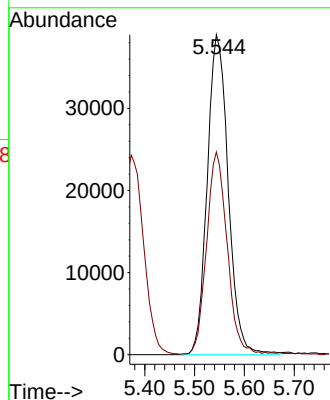
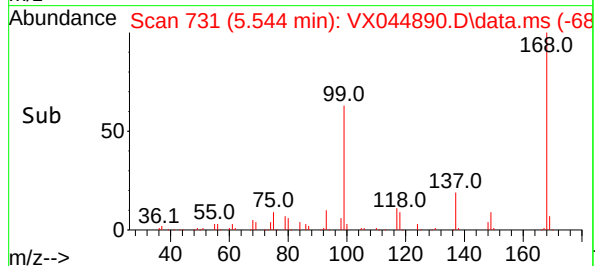
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MSD



Tgt Ion:168 Resp: 11379
Ion Ratio Lower Upper
168 100
99 63.2 51.2 76.8

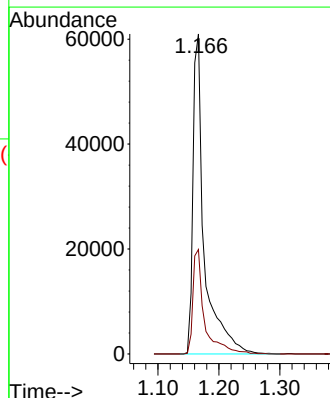
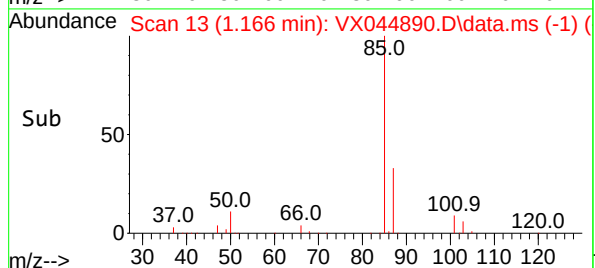
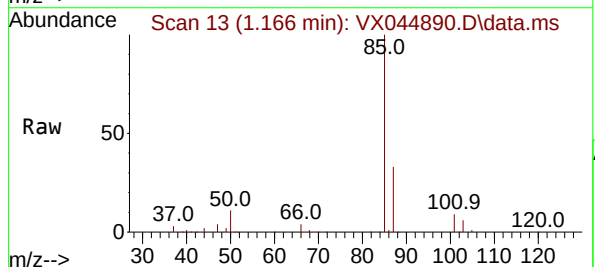
Manual Integrations
APPROVED

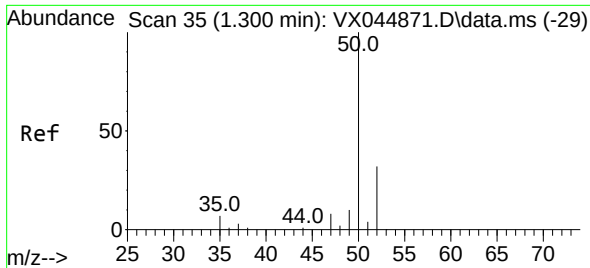
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#2
Dichlorodifluoromethane
Concen: 49.391 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

Tgt Ion: 85 Resp: 78826
Ion Ratio Lower Upper
85 100
87 32.7 15.8 47.3





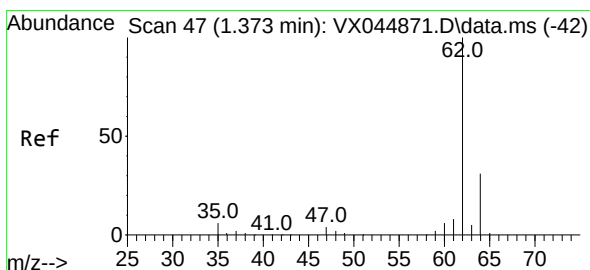
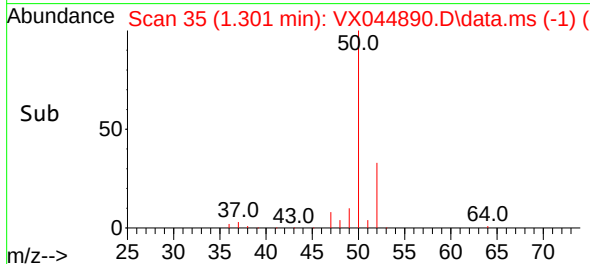
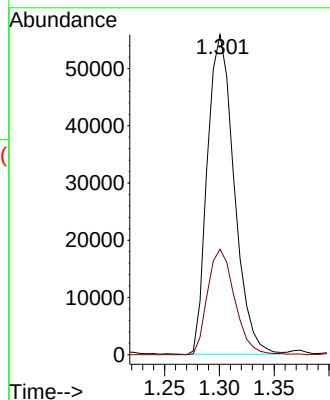
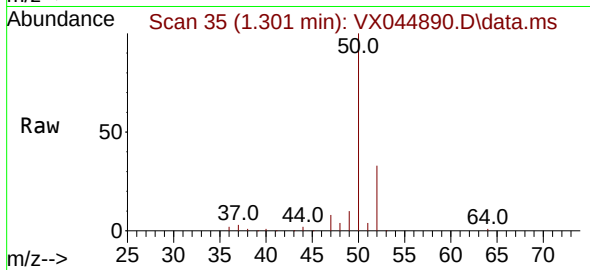
#3
Chloromethane
Concen: 48.921 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MSD

Tgt Ion: 50 Resp: 95020
Ion Ratio Lower Upper
50 100
52 33.0 25.9 38.9

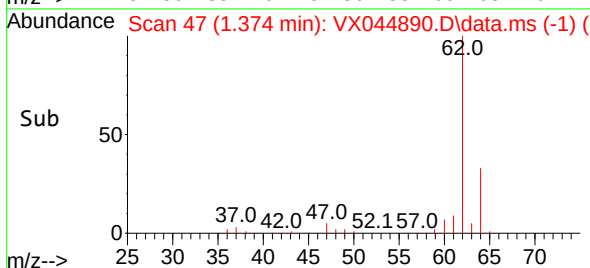
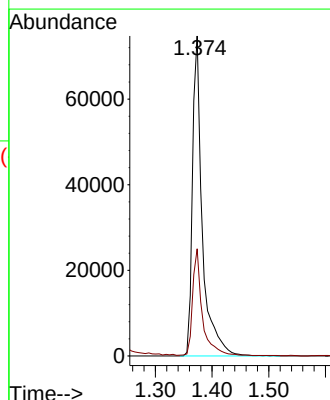
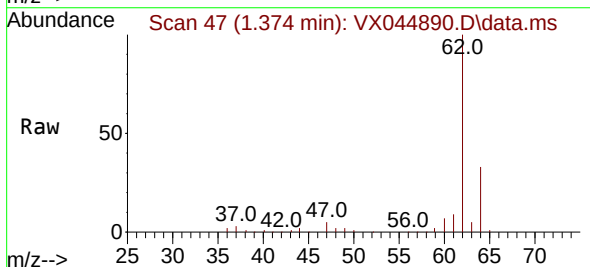
Manual Integrations
APPROVED

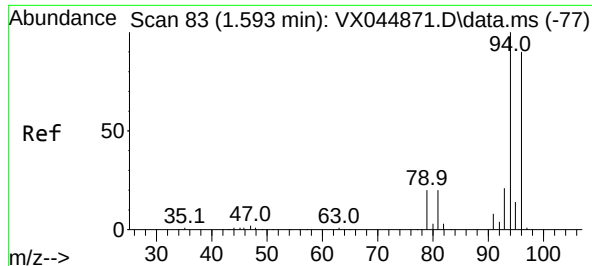
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#4
Vinyl Chloride
Concen: 47.892 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

Tgt Ion: 62 Resp: 90123
Ion Ratio Lower Upper
62 100
64 33.4 25.4 38.0





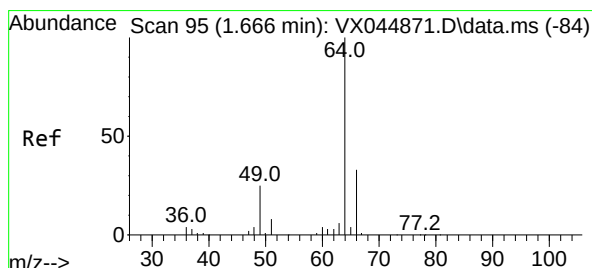
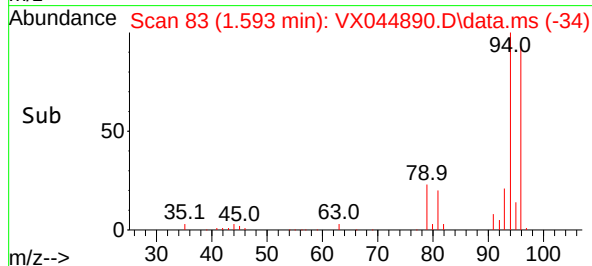
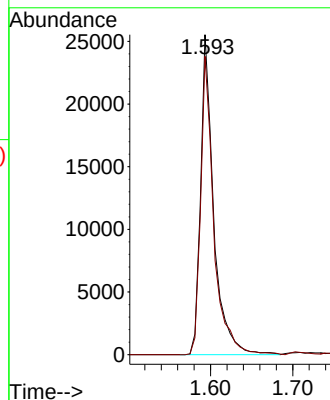
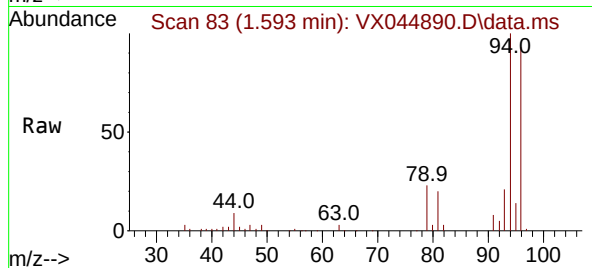
#5
Bromomethane
Concen: 50.214 ug/l
RT: 1.593 min Scan# 83
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MSD

Tgt Ion: 94 Resp: 28270
Ion Ratio Lower Upper
94 100
96 93.2 71.6 107.4

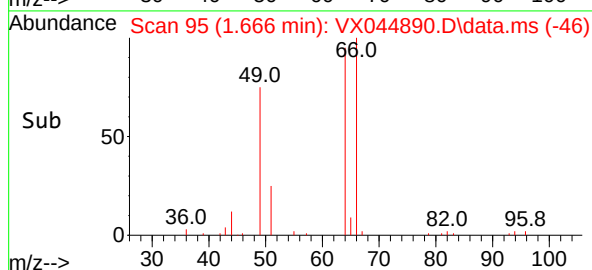
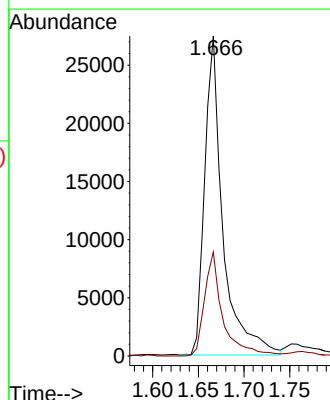
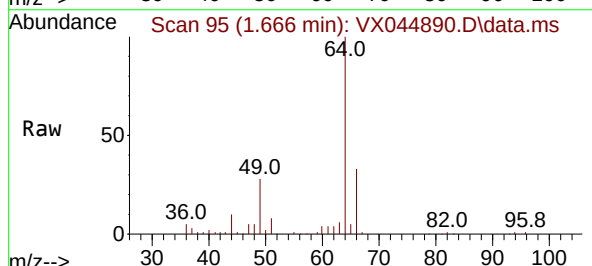
Manual Integrations
APPROVED

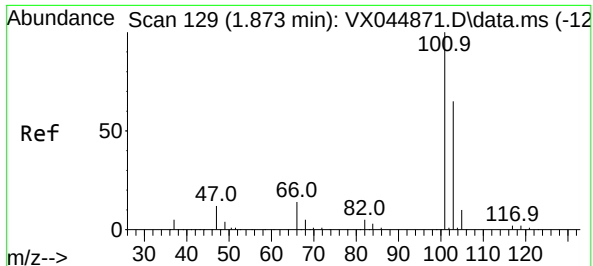
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#6
Chloroethane
Concen: 52.291 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

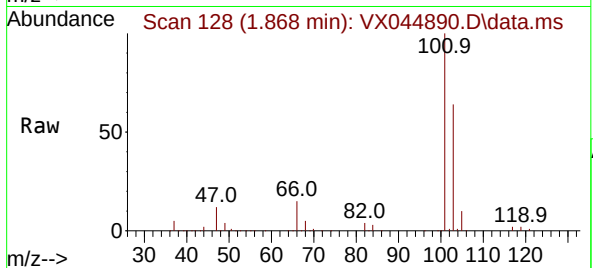
Tgt Ion: 64 Resp: 37847
Ion Ratio Lower Upper
64 100
66 32.6 25.9 38.9





#7
Trichlorofluoromethane
Concen: 49.463 ug/l
RT: 1.868 min Scan# 117
Delta R.T. -0.005 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

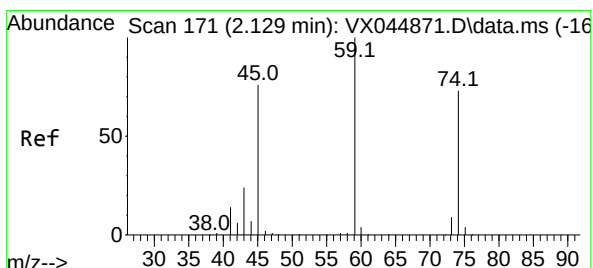
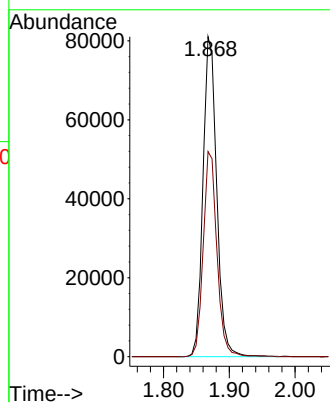
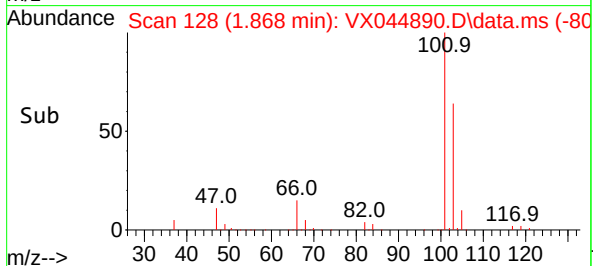
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MSD



Tgt Ion:101 Resp: 117710
Ion Ratio Lower Upper
101 100
103 64.1 52.4 78.6

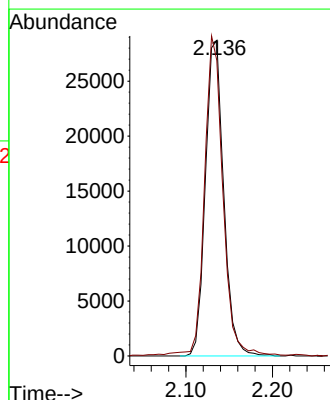
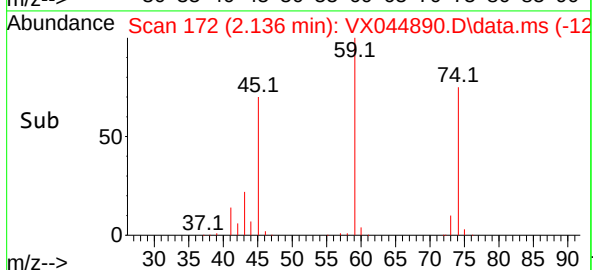
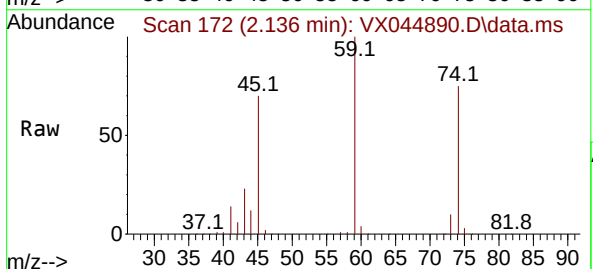
Manual Integrations
APPROVED

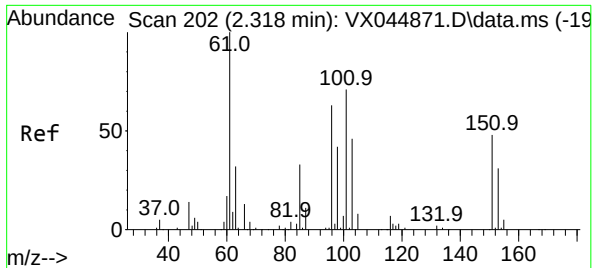
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#8
Diethyl Ether
Concen: 48.687 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.007 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

Tgt Ion: 74 Resp: 42019
Ion Ratio Lower Upper
74 100
45 102.9 51.1 153.4





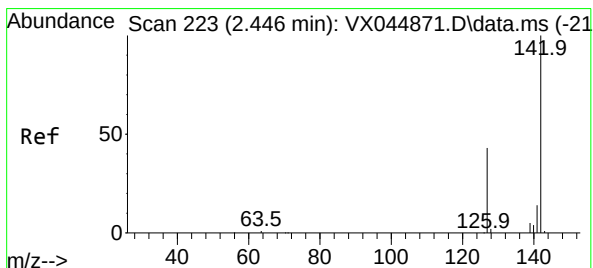
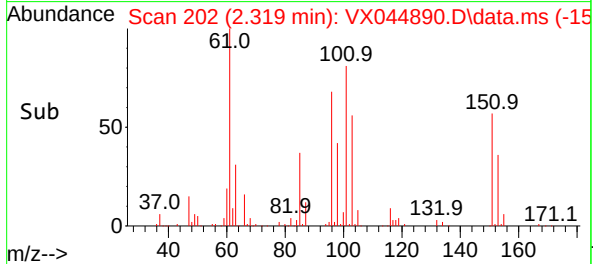
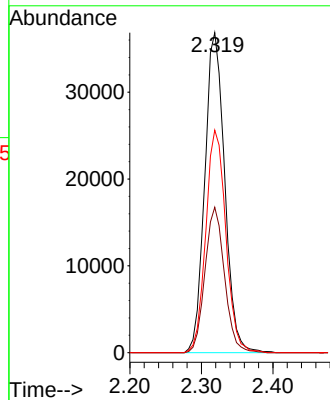
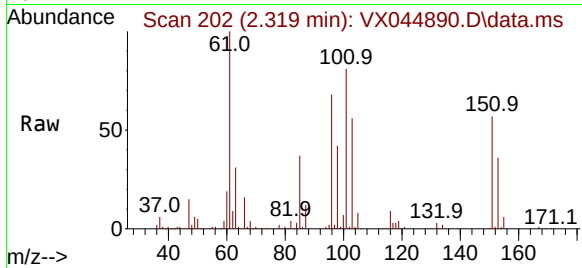
#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.592 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MSD

Tgt Ion:101 Resp: 7130
Ion Ratio Lower Upper
101 100
85 44.6 35.7 53.5
151 70.2 56.0 84.0

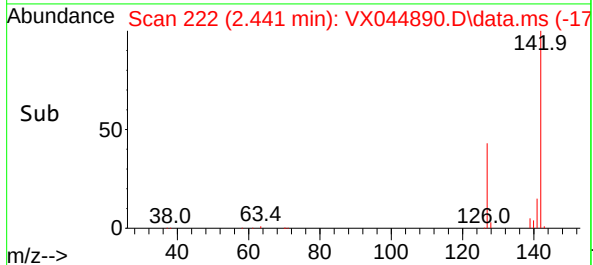
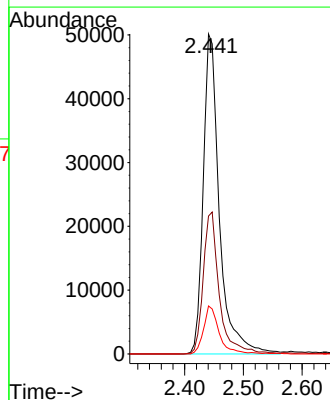
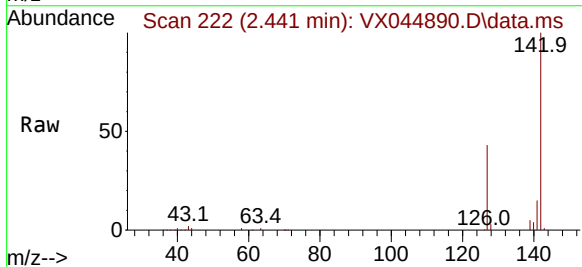
Manual Integrations
APPROVED

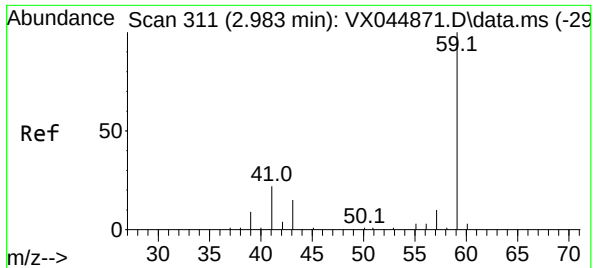
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#10
Methyl Iodide
Concen: 51.384 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

Tgt Ion:142 Resp: 95751
Ion Ratio Lower Upper
142 100
127 44.2 34.3 51.5
141 14.6 11.4 17.2





#11

Tert butyl alcohol

Concen: 238.212 ug/l

RT: 2.983 min Scan# 311

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion: 59 Resp: 7361

Ion Ratio Lower Upper

59 100

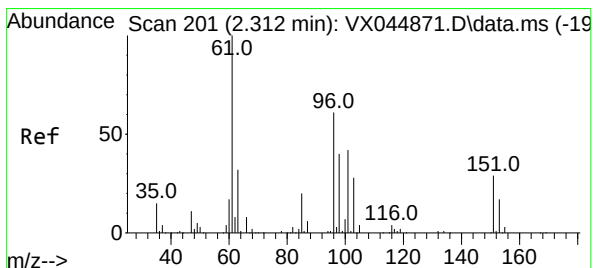
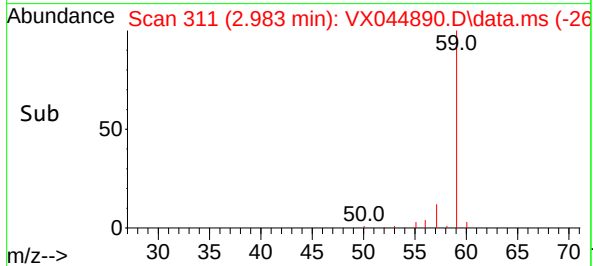
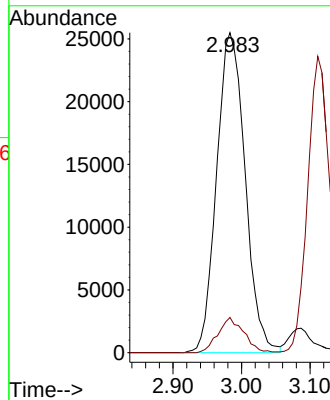
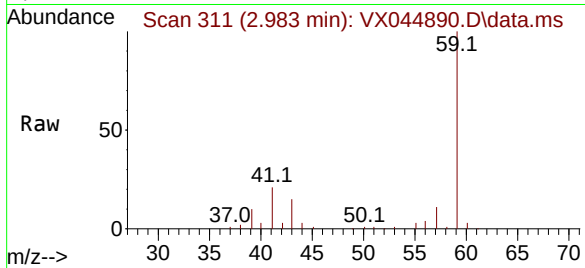
57 10.0 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#12

1,1-Dichloroethene

Concen: 50.184 ug/l

RT: 2.306 min Scan# 200

Delta R.T. -0.006 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

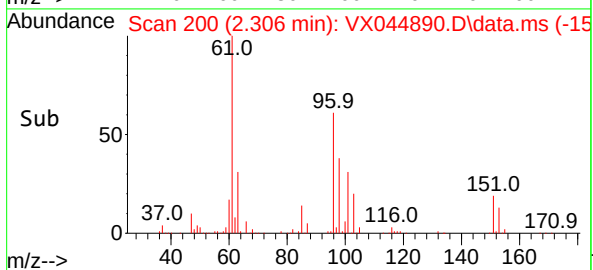
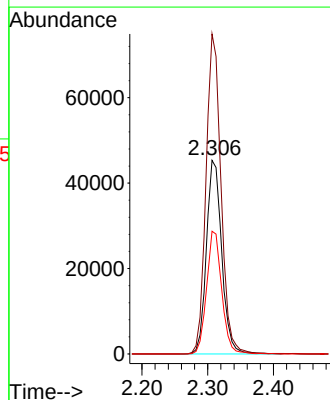
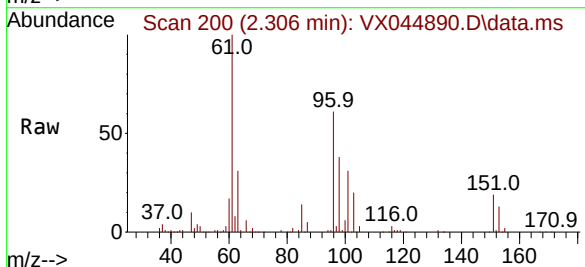
Tgt Ion: 96 Resp: 73604

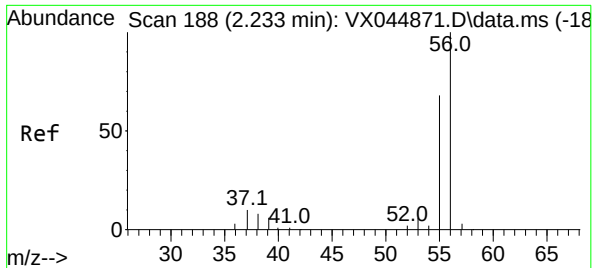
Ion Ratio Lower Upper

96 100

61 165.3 130.2 195.4

98 63.4 52.2 78.4





#13

Acrolein

Concen: 262.912 ug/l

RT: 2.233 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion: 56 Resp: 8382

Ion Ratio Lower Upper

56 100

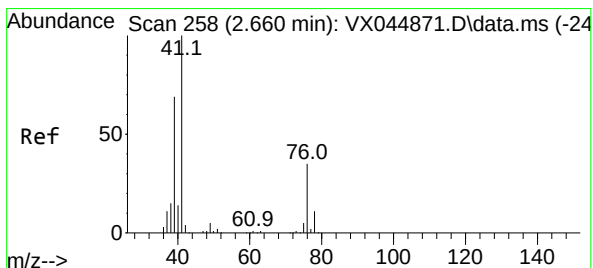
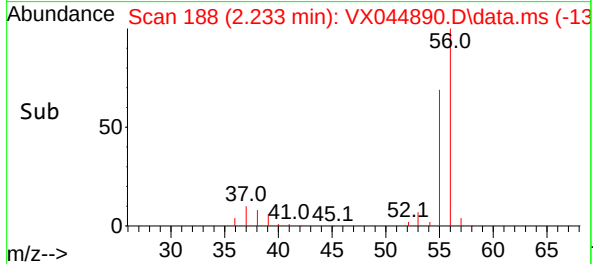
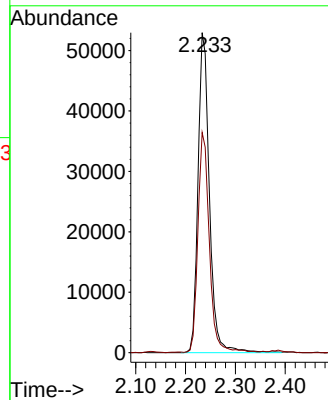
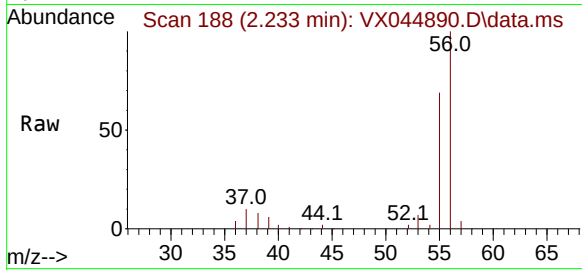
55 68.6 55.7 83.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#14

Allyl chloride

Concen: 49.986 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.006 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

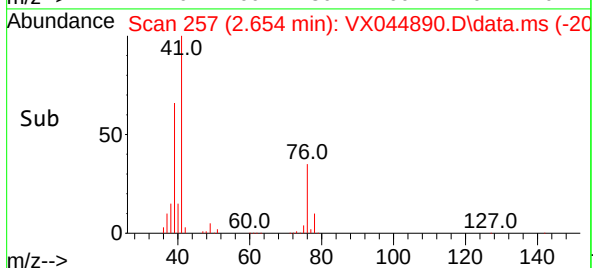
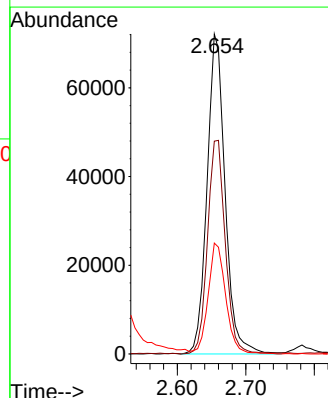
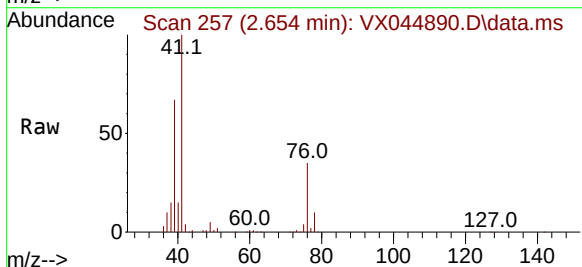
Tgt Ion: 41 Resp: 132495

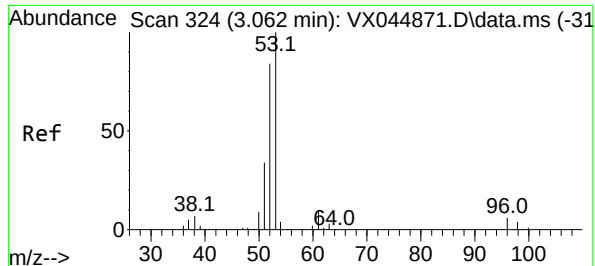
Ion Ratio Lower Upper

41 100

39 65.8 51.4 77.2

76 33.8 27.0 40.4





#15

Acrylonitrile

Concen: 266.950 ug/l

RT: 3.062 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044890.D

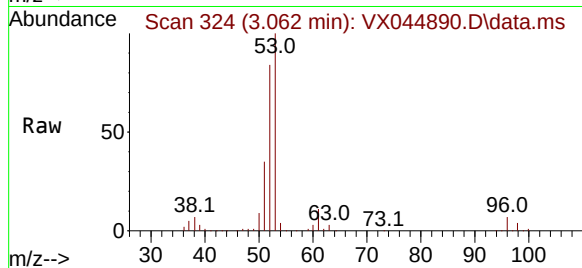
Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD



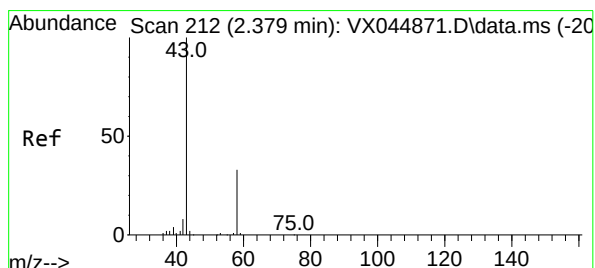
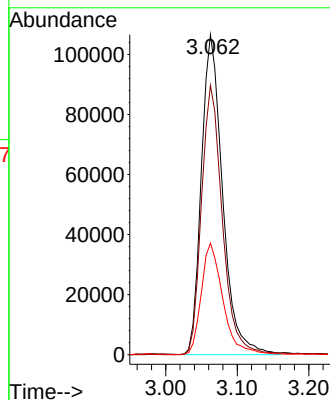
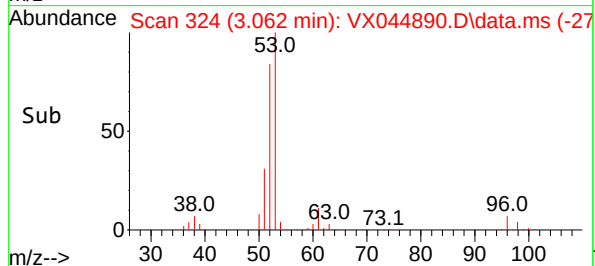
Tgt Ion:	53	Resp:	220250
Ion	Ratio	Lower	Upper
53	100		
52	83.0	65.0	97.6
51	35.6	28.0	42.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#16

Acetone

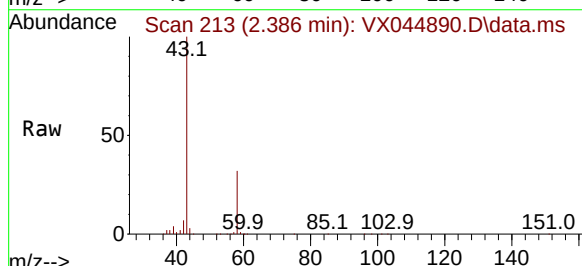
Concen: 264.499 ug/l

RT: 2.386 min Scan# 213

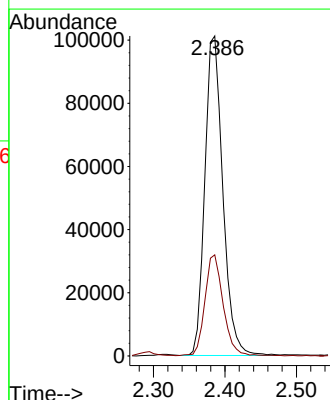
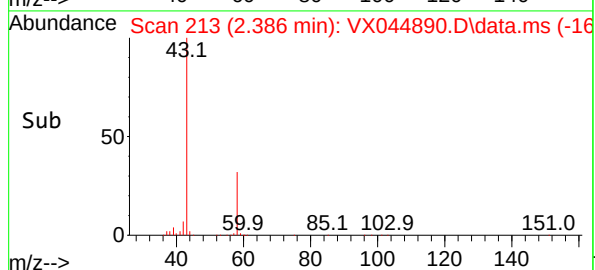
Delta R.T. 0.006 min

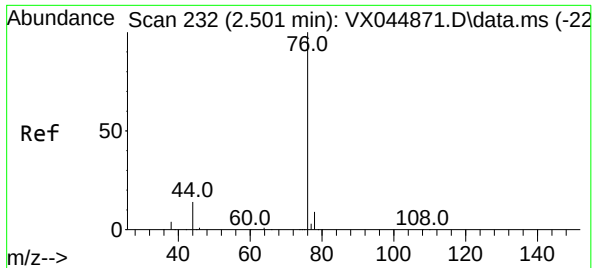
Lab File: VX044890.D

Acq: 10 Feb 2025 19:09



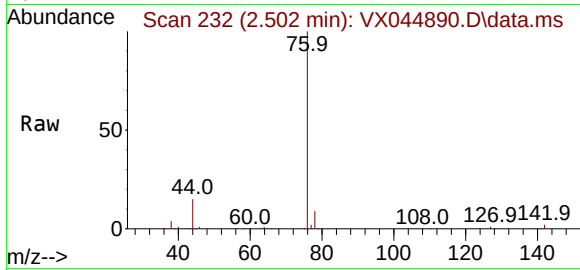
Tgt Ion:	43	Resp:	177115
Ion	Ratio	Lower	Upper
43	100		
58	31.5	26.5	39.7





#17
Carbon Disulfide
Concen: 49.300 ug/l
RT: 2.502 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

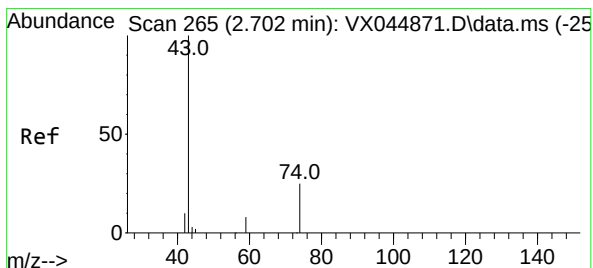
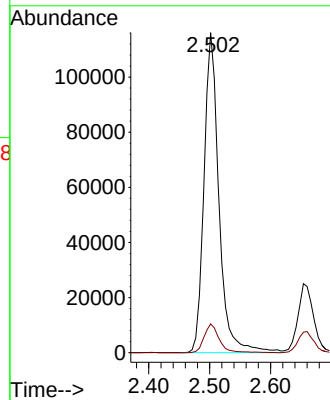
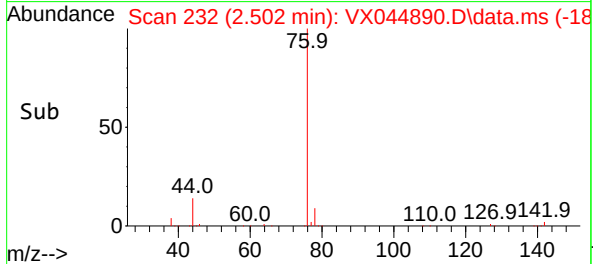
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MSD



Tgt Ion: 76 Resp: 198280
Ion Ratio Lower Upper
76 100
78 9.0 7.0 10.4

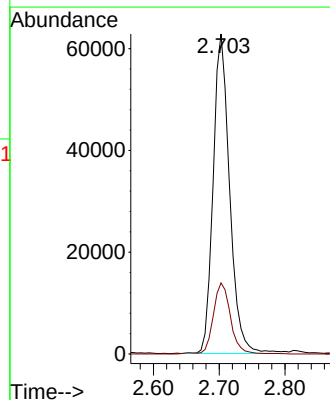
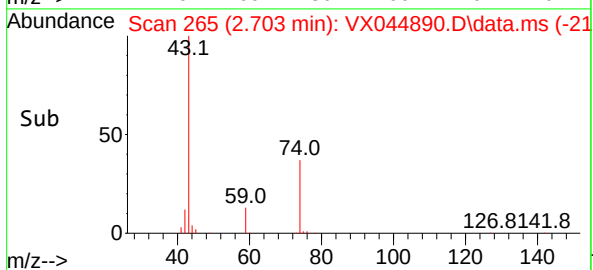
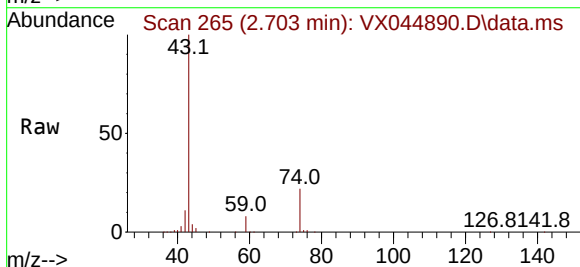
Manual Integrations
APPROVED

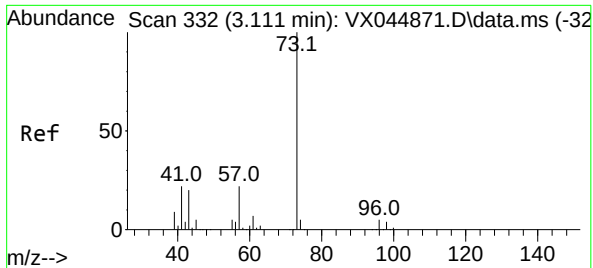
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#18
Methyl Acetate
Concen: 51.925 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

Tgt Ion: 43 Resp: 109722
Ion Ratio Lower Upper
43 100
74 23.0 18.9 28.3





#19

Methyl tert-butyl Ether

Concen: 51.100 ug/l

RT: 3.111 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion: 73 Resp: 23845

Ion Ratio Lower Upper

73 100

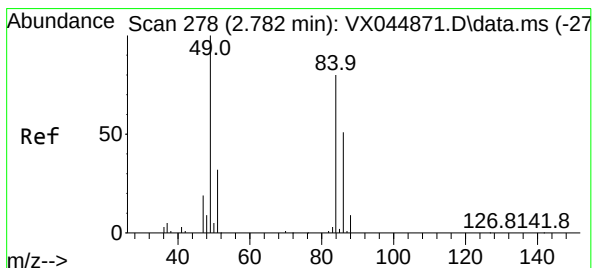
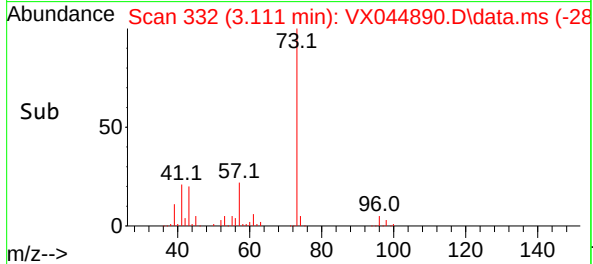
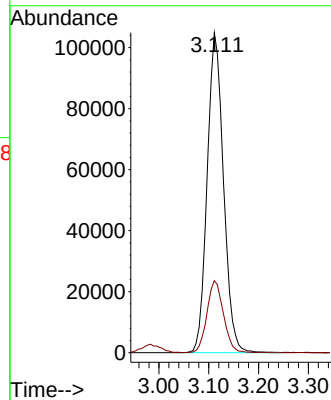
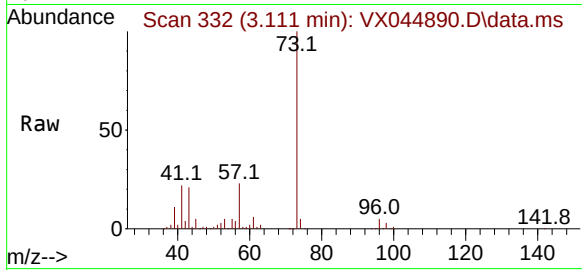
57 22.5 17.9 26.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#20

Methylene Chloride

Concen: 50.279 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Tgt Ion: 84 Resp: 82466

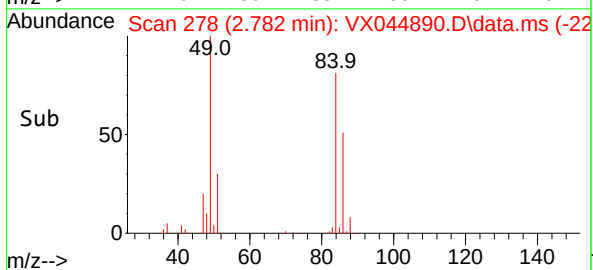
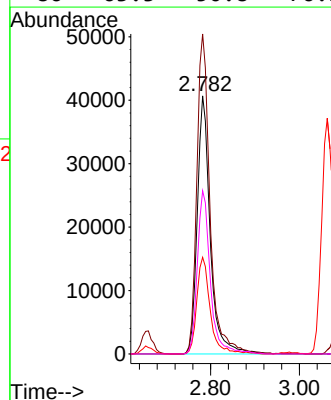
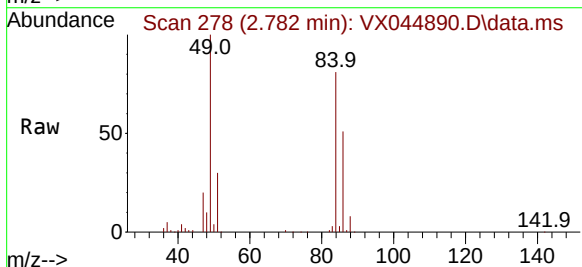
Ion Ratio Lower Upper

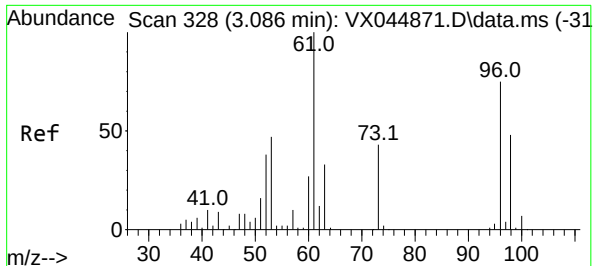
84 100

49 124.0 100.1 150.1

51 37.4 31.7 47.5

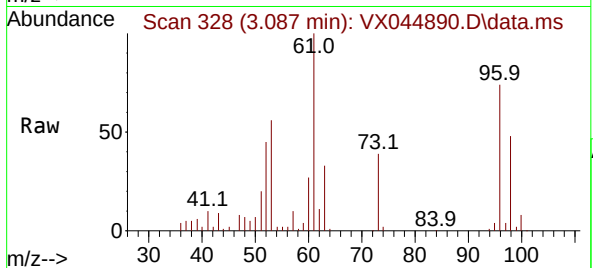
86 63.3 50.8 76.2





#21
trans-1,2-Dichloroethene
Concen: 50.779 ug/l
RT: 3.087 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

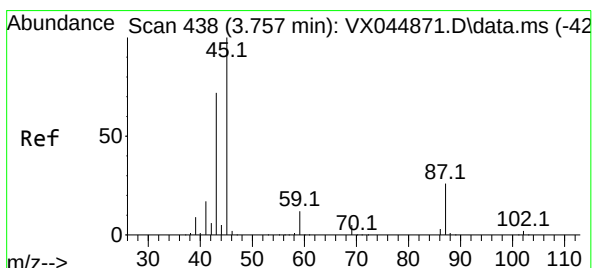
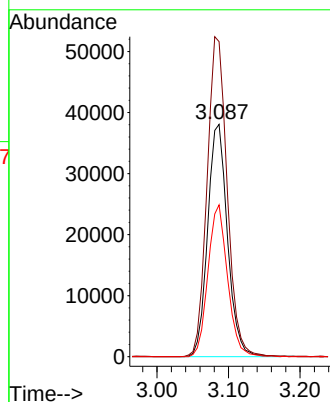
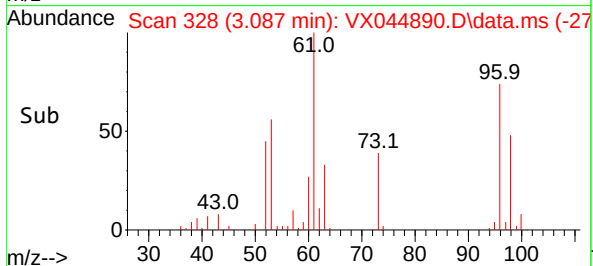
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MSD



Tgt Ion: 96 Resp: 73300
Ion Ratio Lower Upper
96 100
61 135.6 106.0 159.0
98 65.3 50.6 76.0

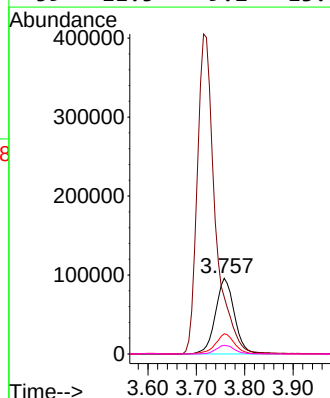
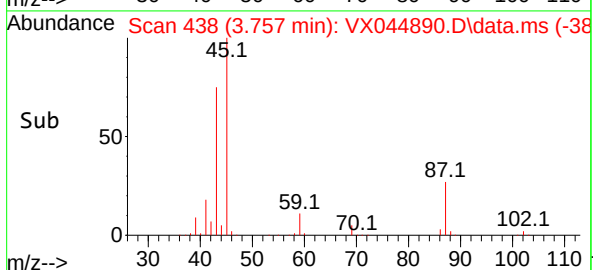
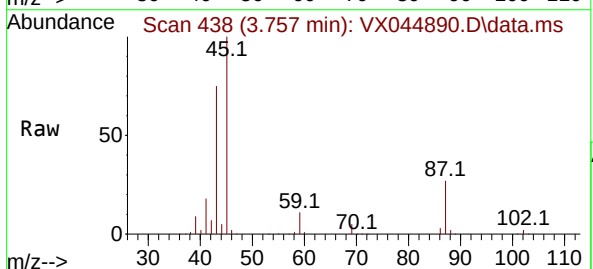
Manual Integrations
APPROVED

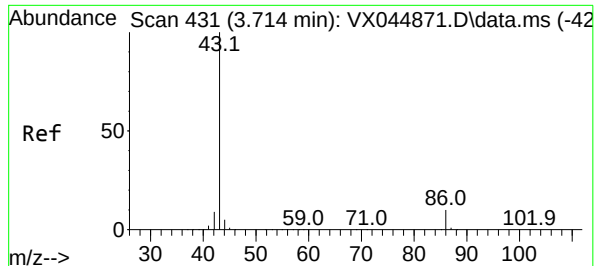
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#22
Diisopropyl ether
Concen: 52.041 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

Tgt Ion: 45 Resp: 260970
Ion Ratio Lower Upper
45 100
43 75.2 58.0 87.0
87 26.6 20.7 31.1
59 11.5 9.2 13.8





#23

Vinyl Acetate

Concen: 255.003 ug/l

RT: 3.715 min Scan# 411

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion: 43 Resp: 104252

Ion Ratio Lower Upper

43 100

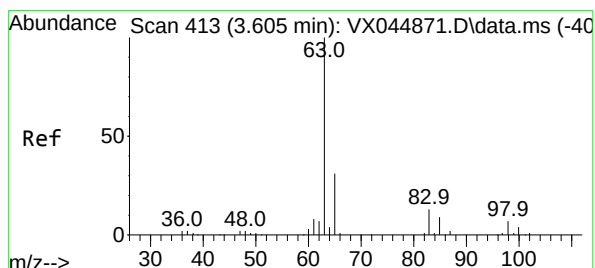
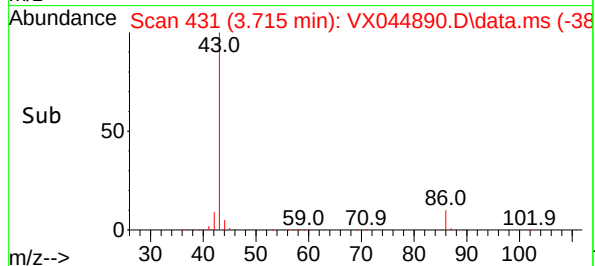
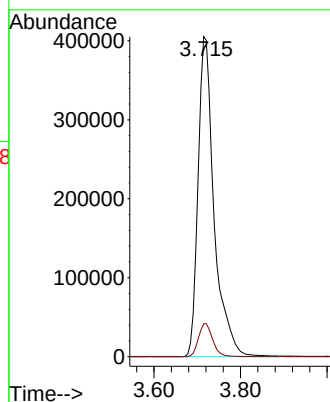
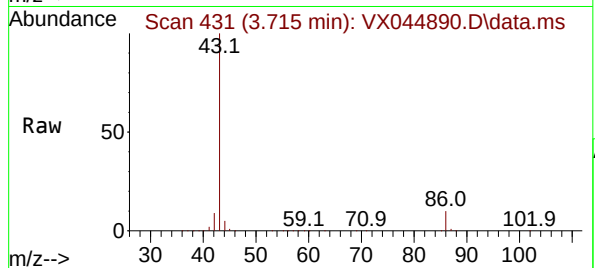
86 10.3 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#24

1,1-Dichloroethane

Concen: 51.164 ug/l

RT: 3.599 min Scan# 412

Delta R.T. -0.006 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

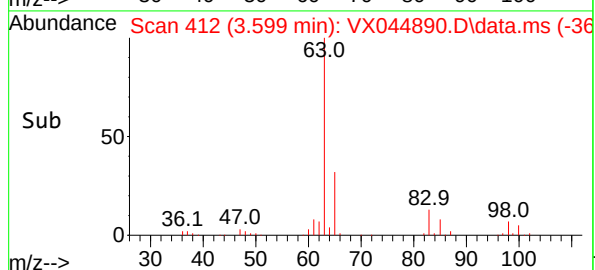
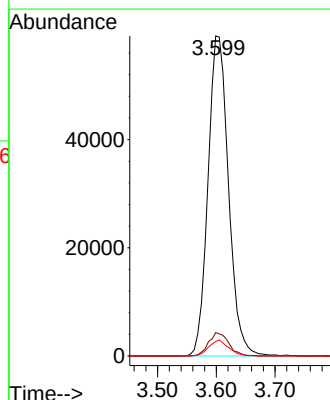
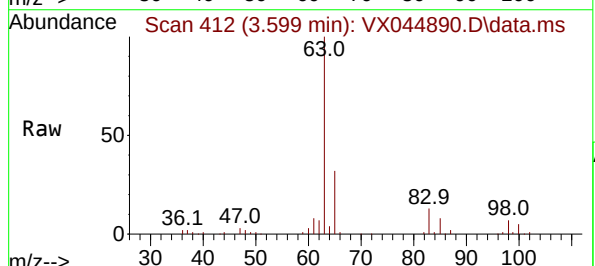
Tgt Ion: 63 Resp: 143563

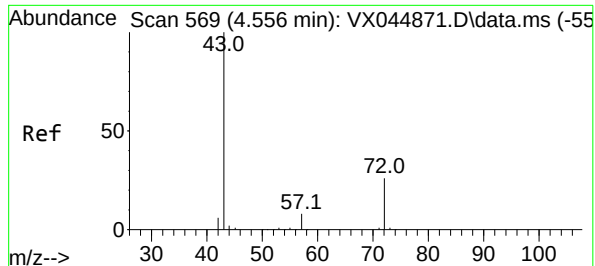
Ion Ratio Lower Upper

63 100

98 7.3 3.3 9.9

100 4.5 2.1 6.5





#25

2-Butanone

Concen: 273.321 ug/l

RT: 4.556 min Scan# 569

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion: 43 Resp: 29719

Ion Ratio Lower Upper

43 100

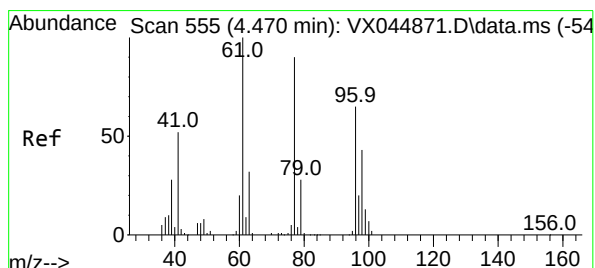
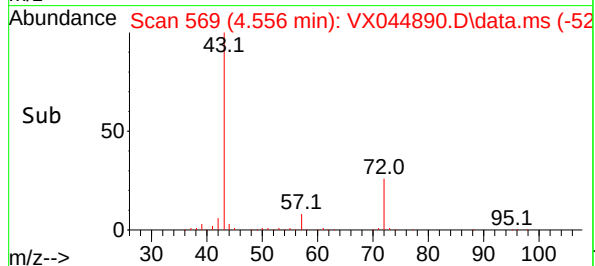
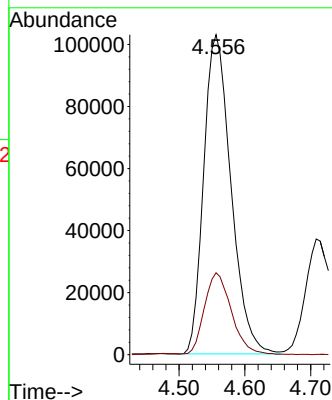
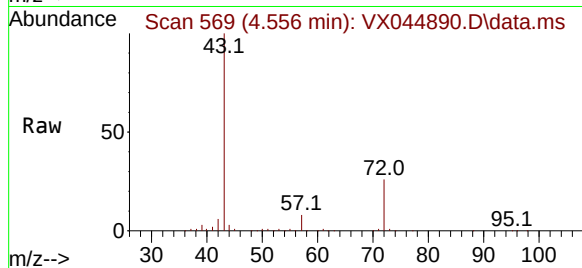
72 25.5 21.2 31.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#26

2,2-Dichloropropane

Concen: 46.322 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.000 min

Lab File: VX044890.D

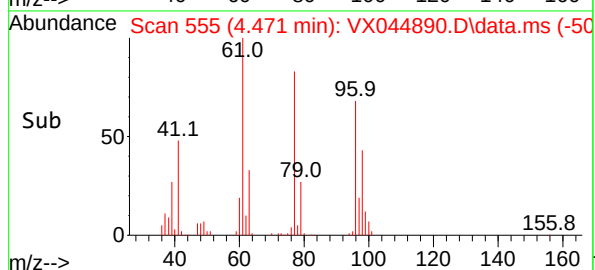
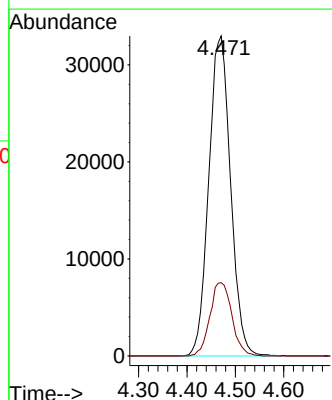
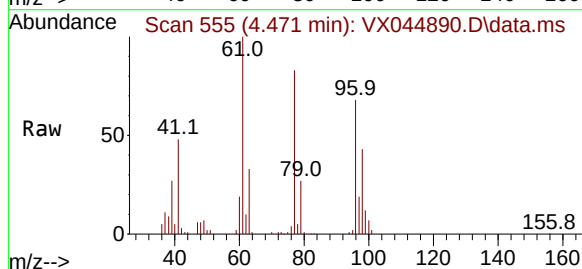
Acq: 10 Feb 2025 19:09

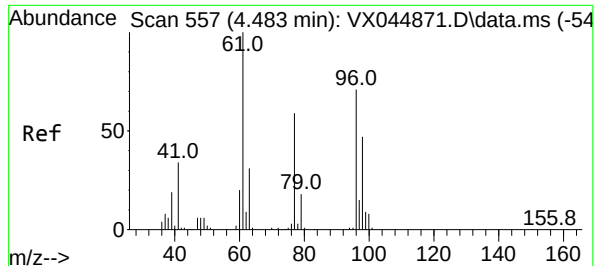
Tgt Ion: 77 Resp: 103076

Ion Ratio Lower Upper

77 100

97 23.1 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 50.743 ug/l

RT: 4.483 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion: 96 Resp: 8798

Ion Ratio Lower Upper

96 100

61 145.3 0.0 294.0

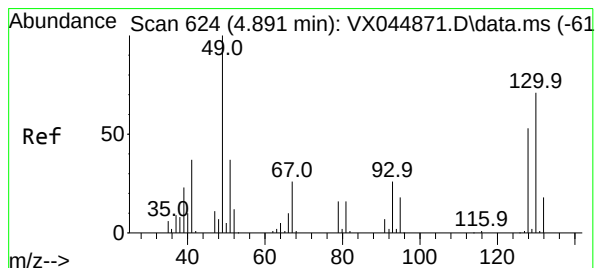
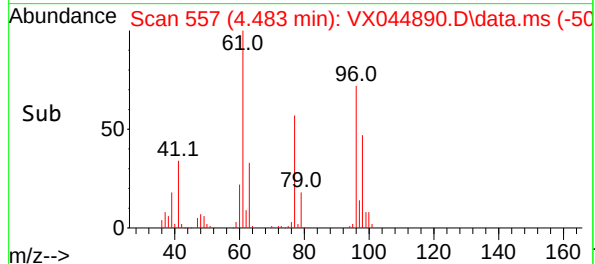
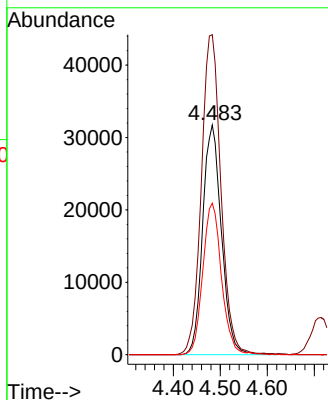
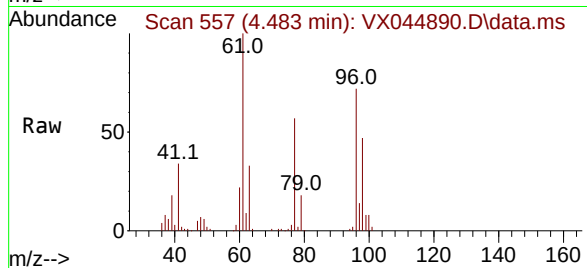
98 65.7 0.0 131.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#28

Bromochloromethane

Concen: 52.162 ug/l

RT: 4.891 min Scan# 624

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

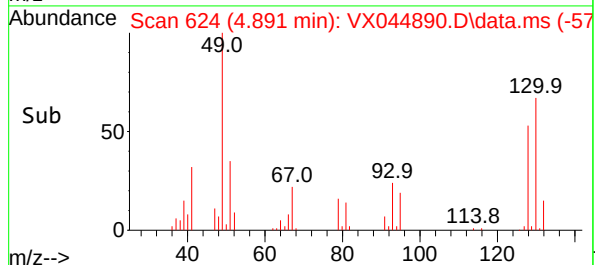
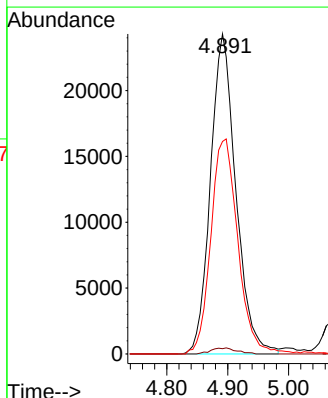
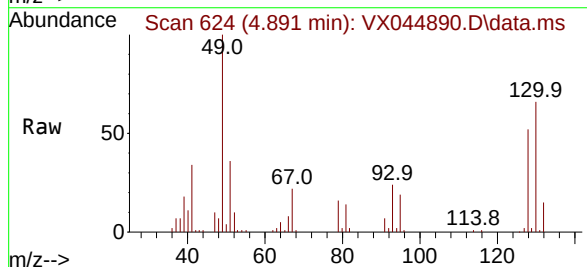
Tgt Ion: 49 Resp: 70338

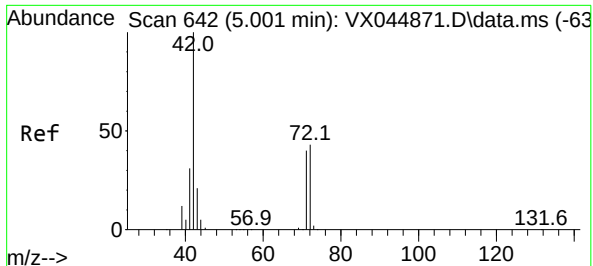
Ion Ratio Lower Upper

49 100

129 1.9 0.0 3.6

130 71.6 56.7 85.1





#29

Tetrahydrofuran

Concen: 263.899 ug/l

RT: 5.001 min Scan# 642

Delta R.T. 0.000 min

Lab File: VX044890.D

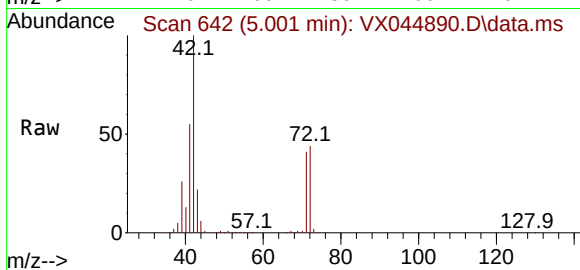
Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD



Tgt Ion: 42 Resp: 19054

Ion Ratio Lower Upper

42 100

72 44.7 35.0 52.4

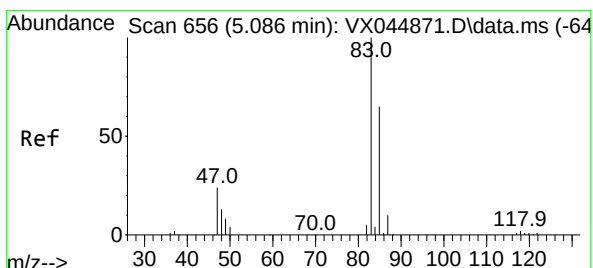
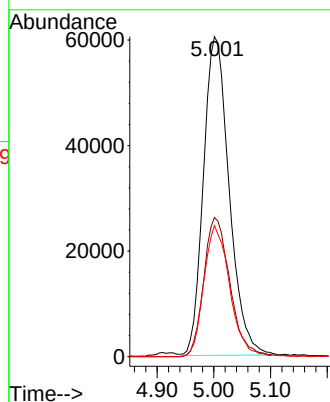
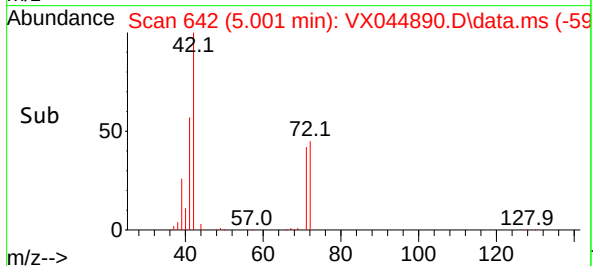
71 41.4 32.6 48.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#30

Chloroform

Concen: 50.818 ug/l

RT: 5.086 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX044890.D

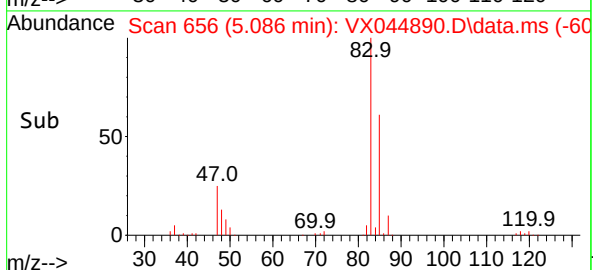
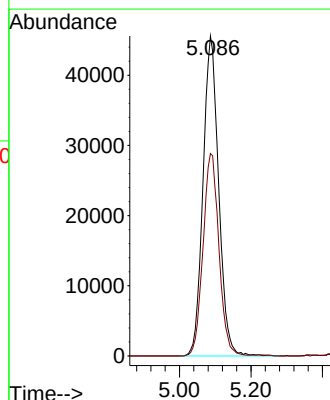
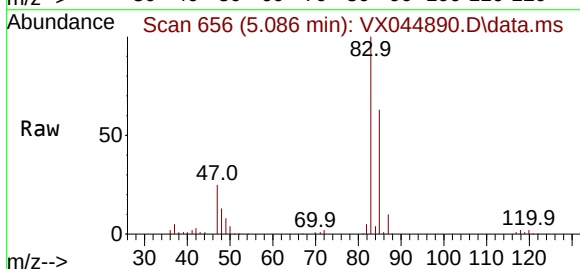
Acq: 10 Feb 2025 19:09

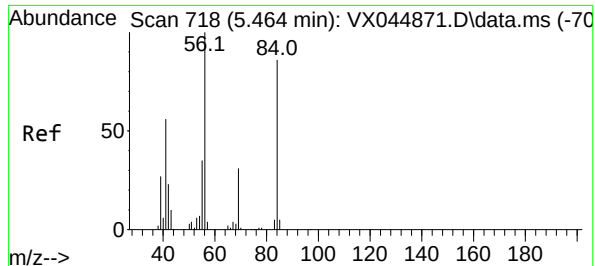
Tgt Ion: 83 Resp: 138285

Ion Ratio Lower Upper

83 100

85 63.2 52.1 78.1





#31

Cyclohexane

Concen: 48.635 ug/l

RT: 5.458 min Scan# 717

Delta R.T. -0.006 min

Lab File: VX044890.D

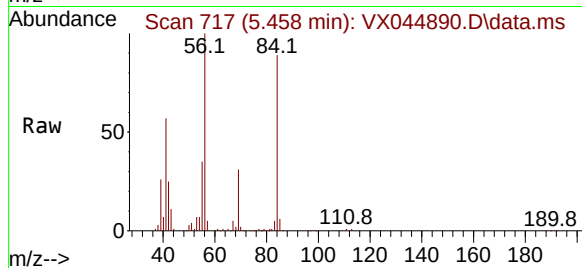
Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD



Tgt Ion: 56 Resp: 125809

Ion Ratio Lower Upper

56 100

69 30.7 24.4 36.6

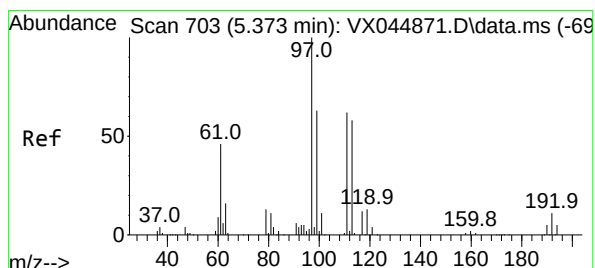
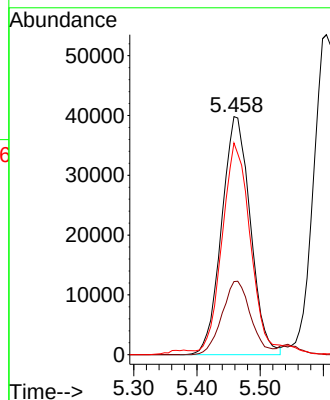
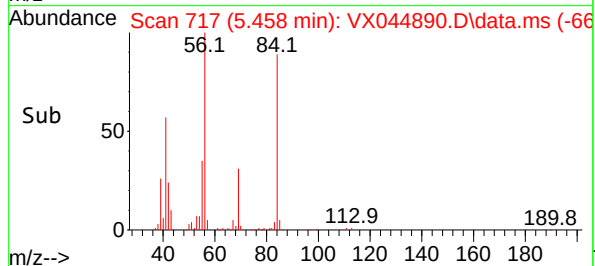
84 87.3 69.0 103.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#32

1,1,1-Trichloroethane

Concen: 51.000 ug/l

RT: 5.373 min Scan# 703

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

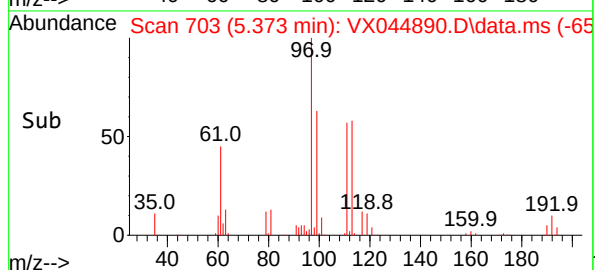
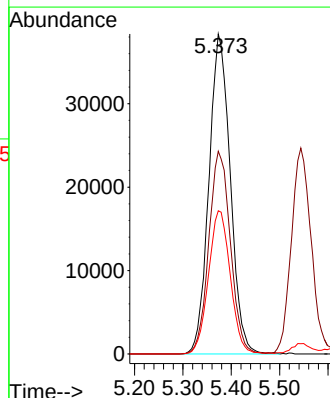
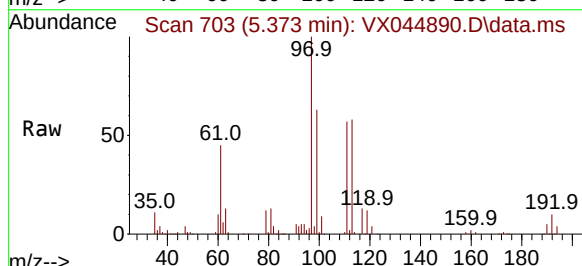
Tgt Ion: 97 Resp: 117714

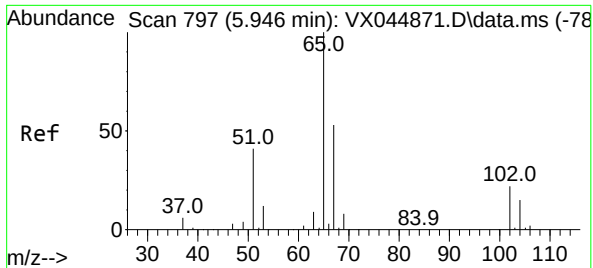
Ion Ratio Lower Upper

97 100

99 64.0 51.0 76.6

61 45.8 36.6 55.0





#33

1,2-Dichloroethane-d4

Concen: 50.211 ug/l

RT: 5.952 min Scan# 79

Delta R.T. 0.006 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion: 65 Resp: 8363

Ion Ratio Lower Upper

65 100

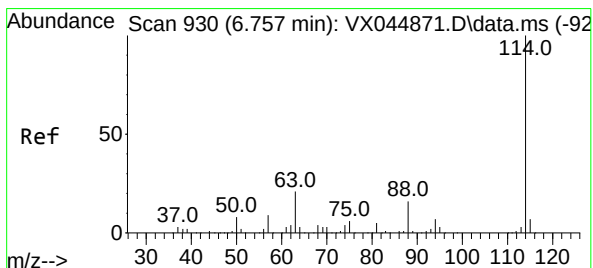
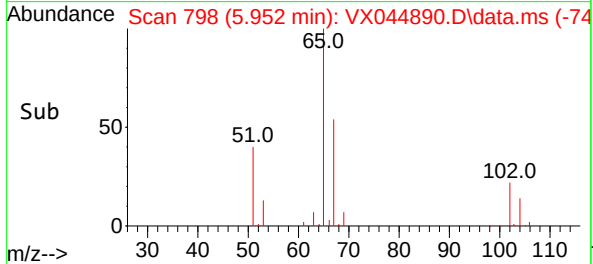
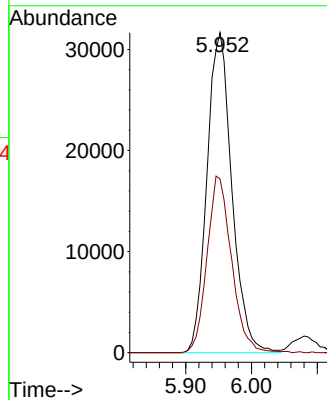
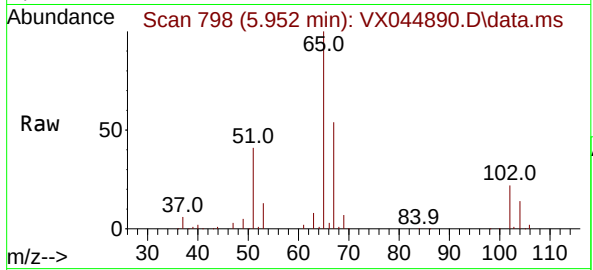
67 54.2 0.0 108.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

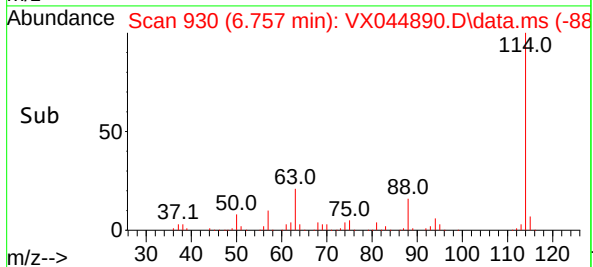
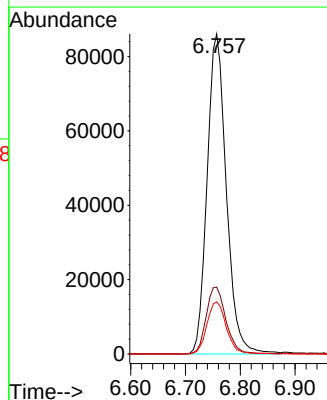
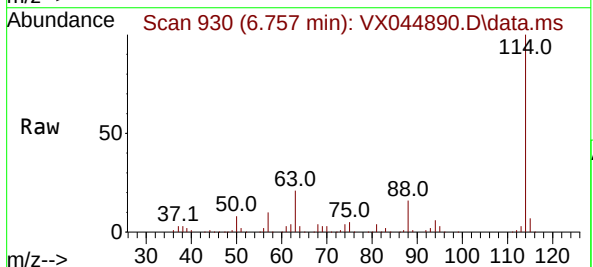
Tgt Ion:114 Resp: 209107

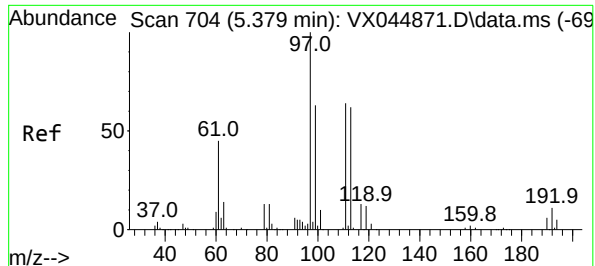
Ion Ratio Lower Upper

114 100

63 20.9 0.0 42.4

88 16.3 0.0 31.4





#35

Dibromofluoromethane

Concen: 50.432 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion:113 Resp: 68564

Ion Ratio Lower Upper

113 100

111 103.0 83.5 125.3

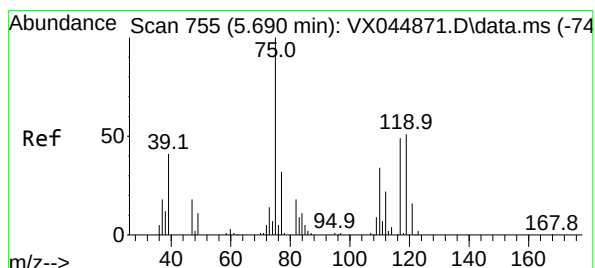
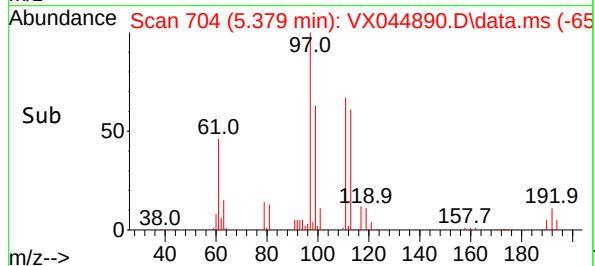
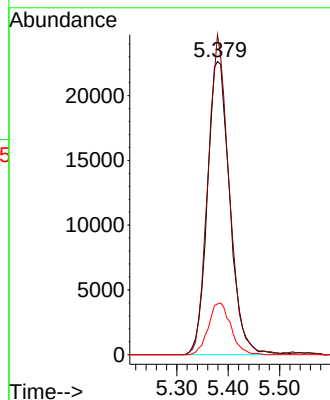
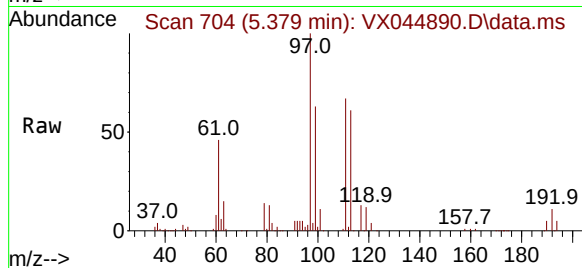
192 17.7 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#36

1,1-Dichloropropene

Concen: 49.879 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

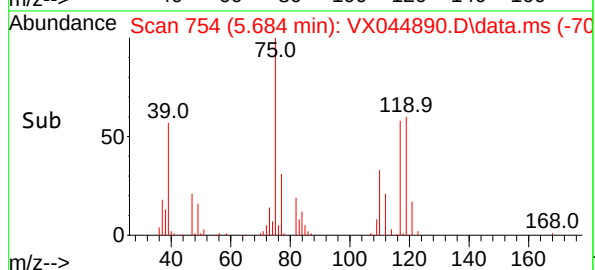
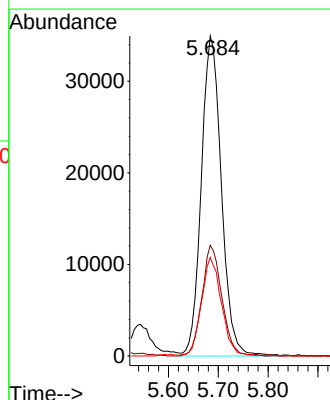
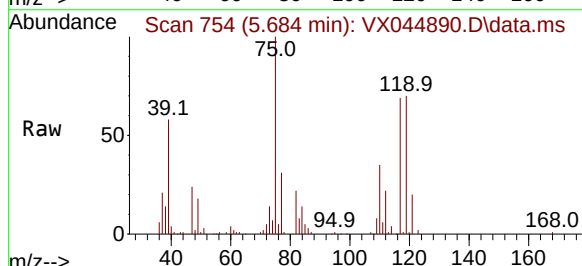
Tgt Ion: 75 Resp: 97836

Ion Ratio Lower Upper

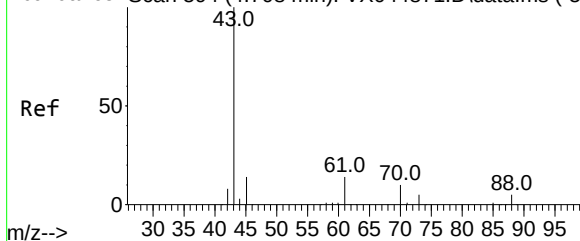
75 100

110 34.3 17.2 51.6

77 30.6 24.6 37.0



Abundance Scan 594 (4.708 min): VX044871.D\data.ms (-58



#37

Ethyl Acetate

Concen: 50.396 ug/l

RT: 4.708 min Scan# 594

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion: 43 Resp: 10994

Ion Ratio Lower Upper

43 100

61 13.9 11.0 16.4

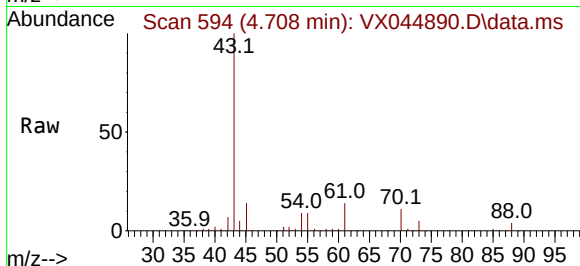
70 10.1 8.2 12.2

Manual Integrations

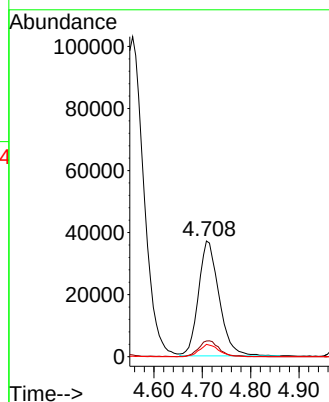
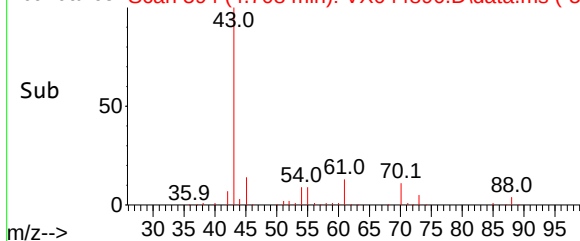
APPROVED

Reviewed By :John Carlone 02/11/2025

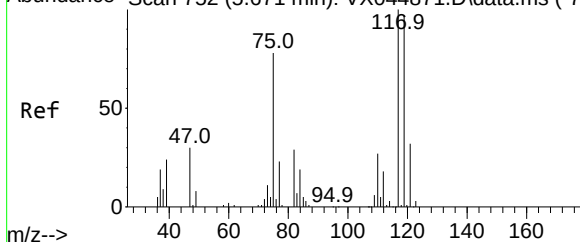
Supervised By :Mahesh Dadoda 02/11/2025



Abundance Scan 594 (4.708 min): VX044890.D\data.ms (-54



Abundance Scan 752 (5.671 min): VX044871.D\data.ms (-74



#38

Carbon Tetrachloride

Concen: 50.515 ug/l

RT: 5.666 min Scan# 751

Delta R.T. -0.006 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

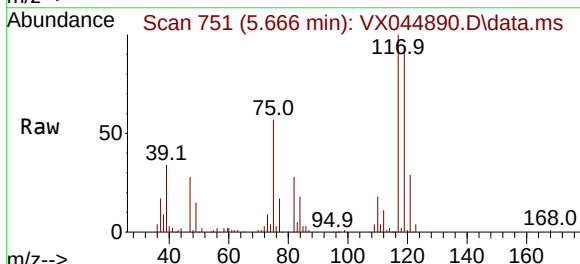
Tgt Ion:117 Resp: 97095

Ion Ratio Lower Upper

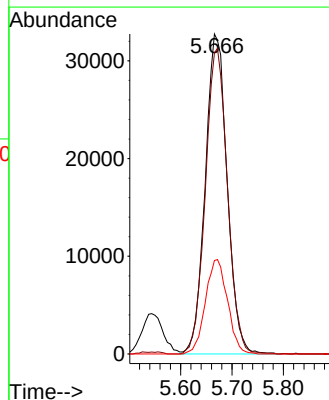
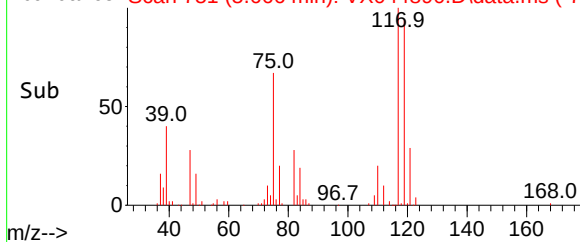
117 100

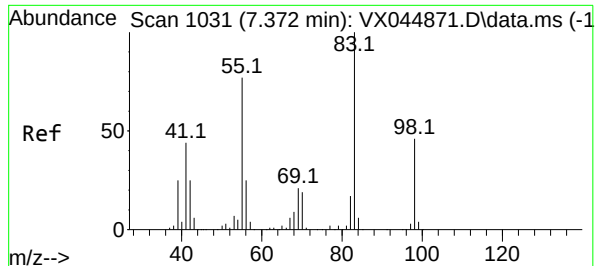
119 94.1 77.5 116.3

121 29.2 25.6 38.4



Abundance Scan 751 (5.666 min): VX044890.D\data.ms (-70





#39

Methylcyclohexane

Concen: 49.094 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion: 83 Resp: 124490

Ion Ratio Lower Upper

83 100

55 80.1 61.3 91.9

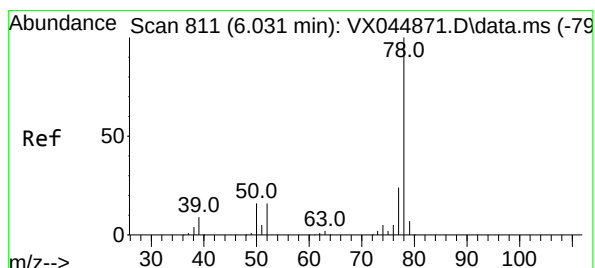
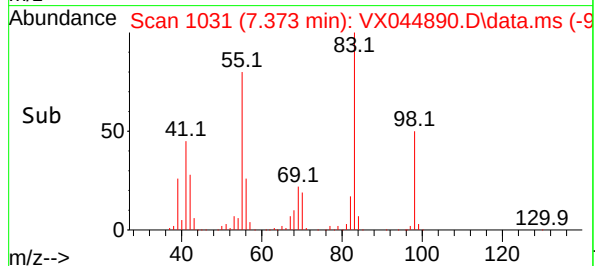
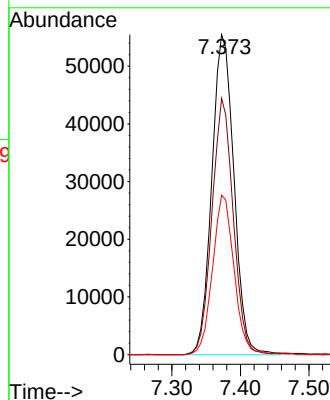
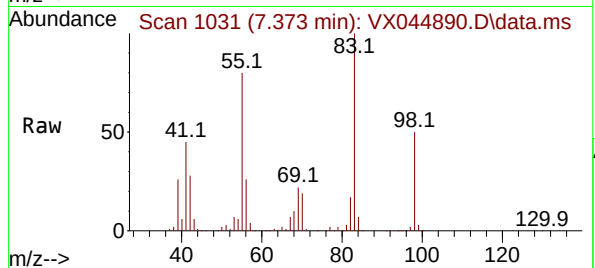
98 49.8 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#40

Benzene

Concen: 51.337 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX044890.D

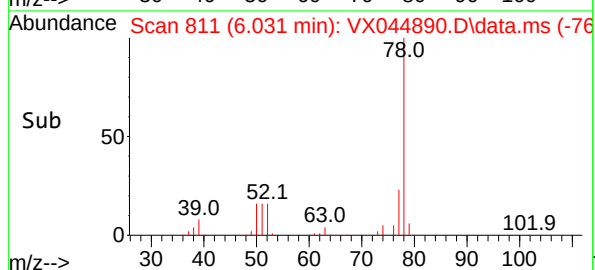
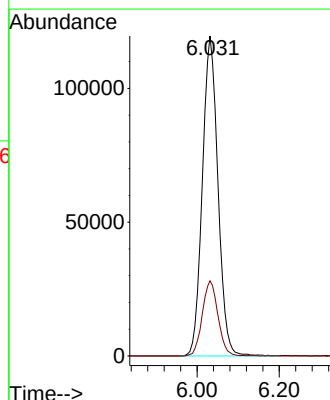
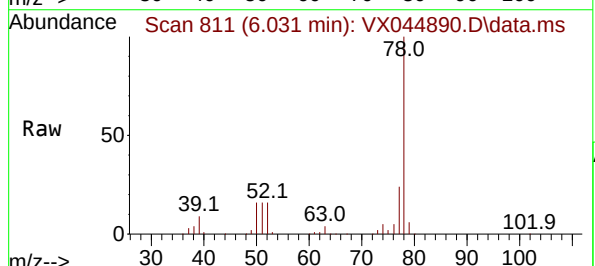
Acq: 10 Feb 2025 19:09

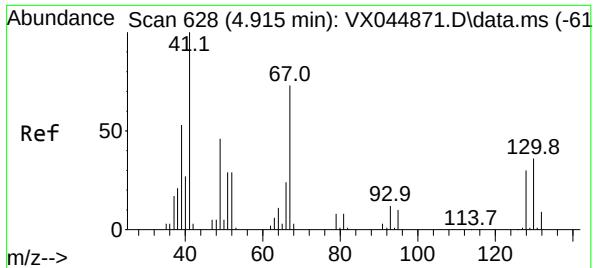
Tgt Ion: 78 Resp: 314426

Ion Ratio Lower Upper

78 100

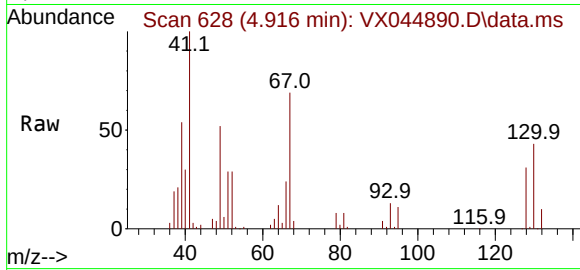
77 23.5 19.0 28.6





#41
Methacrylonitrile
Concen: 54.311 ug/l
RT: 4.916 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

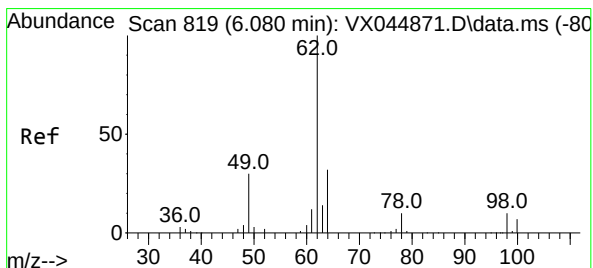
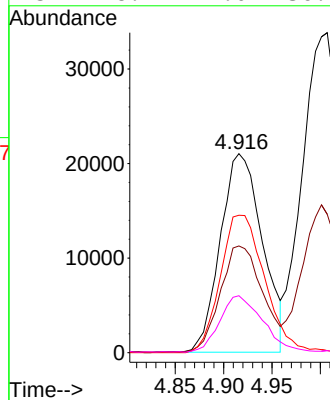
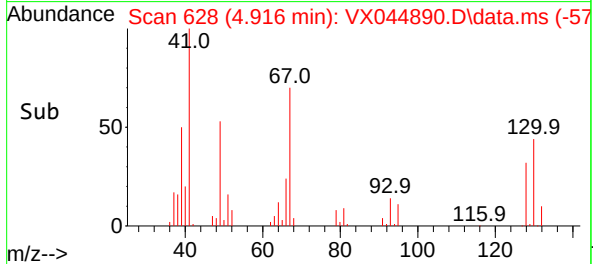
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MSD



Tgt Ion: 41 Resp: 63424
Ion Ratio Lower Upper
41 100
39 53.7 43.1 64.7
67 73.4 57.0 85.6
52 28.7 24.0 36.0

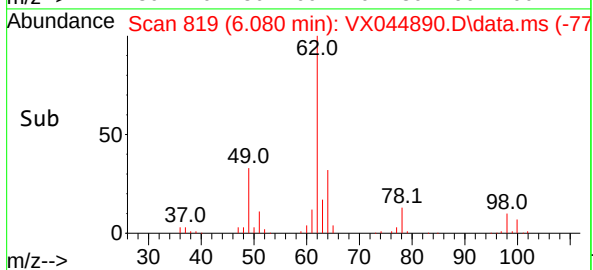
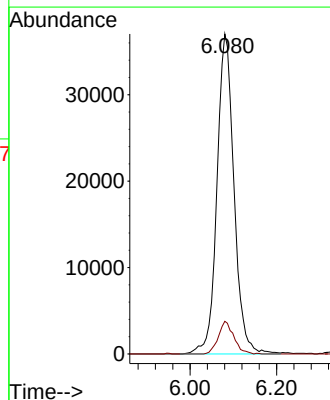
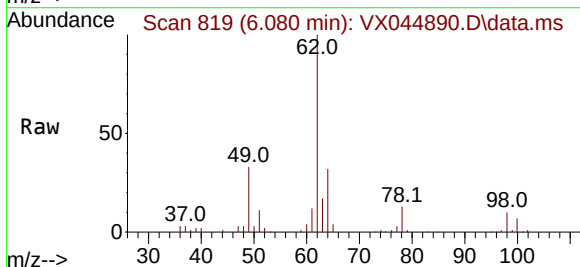
Manual Integrations
APPROVED

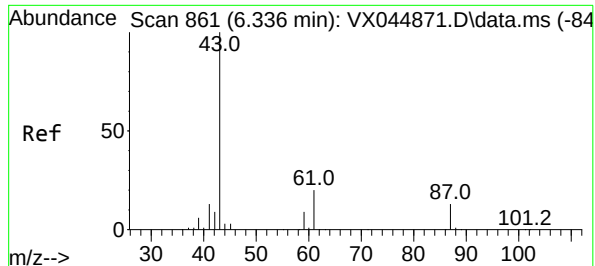
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#42
1,2-Dichloroethane
Concen: 51.847 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

Tgt Ion: 62 Resp: 101207
Ion Ratio Lower Upper
62 100
98 9.3 0.0 19.4





#43

Isopropyl Acetate

Concen: 52.618 ug/l

RT: 6.336 min Scan# 861

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion: 43 Resp: 185380

Ion Ratio Lower Upper

43

100

61

87

19.5

12.5

15.8

10.0

23.8

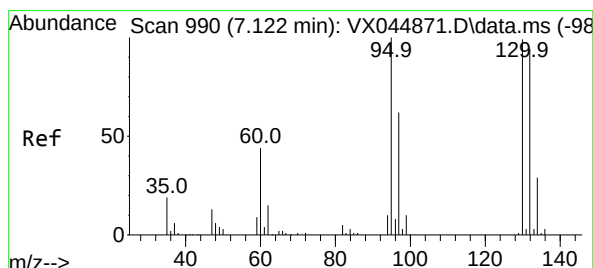
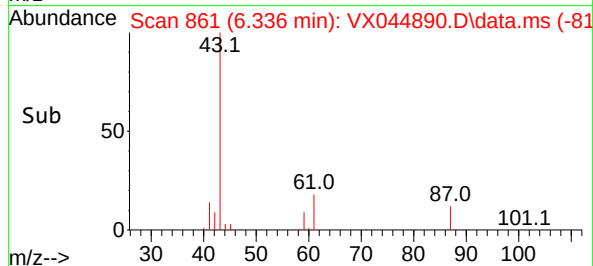
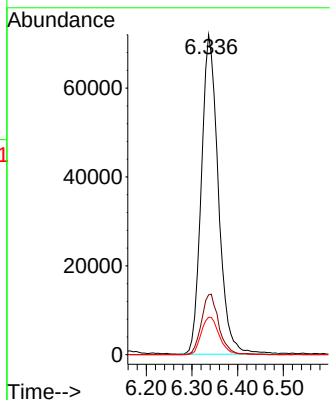
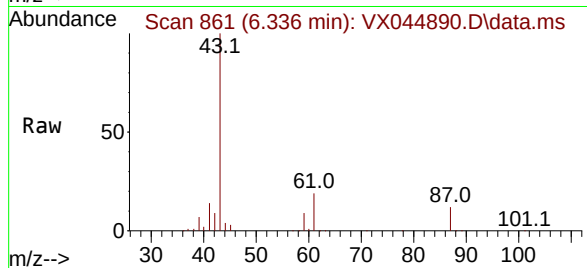
15.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#44

Trichloroethene

Concen: 51.210 ug/l

RT: 7.123 min Scan# 990

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Tgt Ion:130 Resp: 71692

Ion Ratio Lower Upper

130

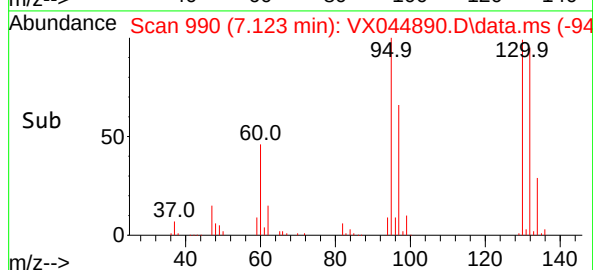
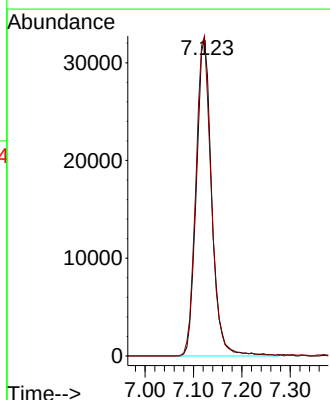
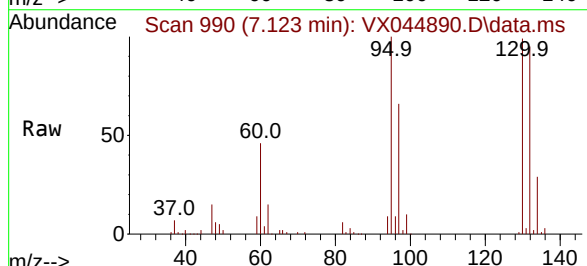
100

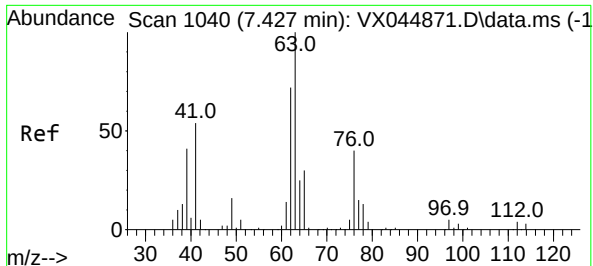
95

100.8

0.0

202.4





#45

1,2-Dichloropropane

Concen: 51.245 ug/l

RT: 7.428 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion: 63 Resp: 7808

Ion Ratio Lower Upper

63 100

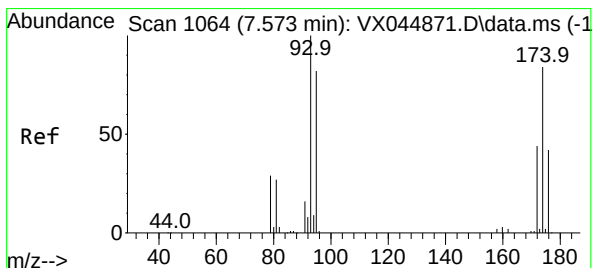
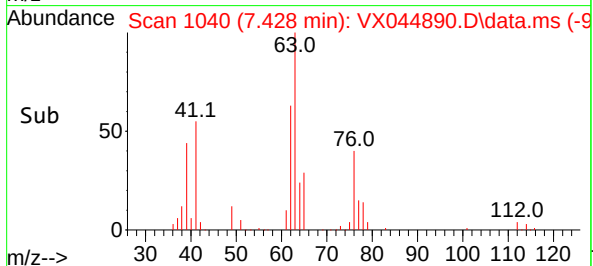
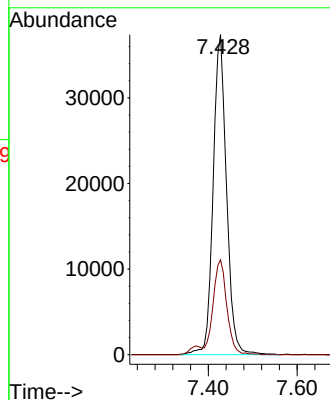
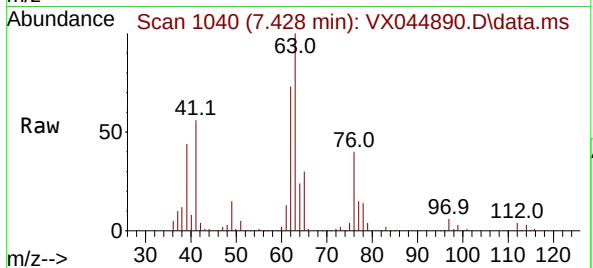
65 29.7 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#46

Dibromomethane

Concen: 51.280 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. 0.006 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

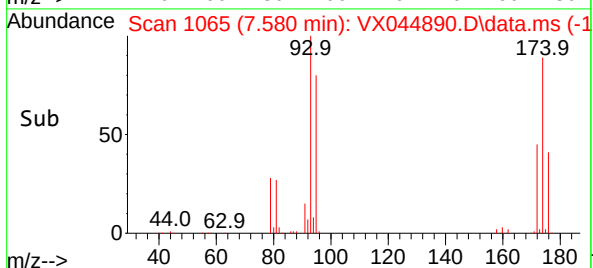
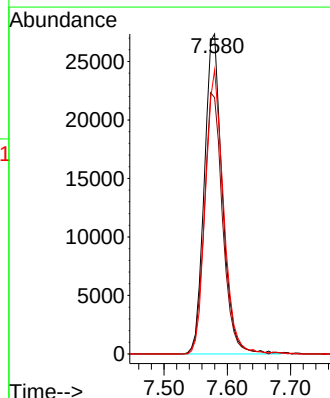
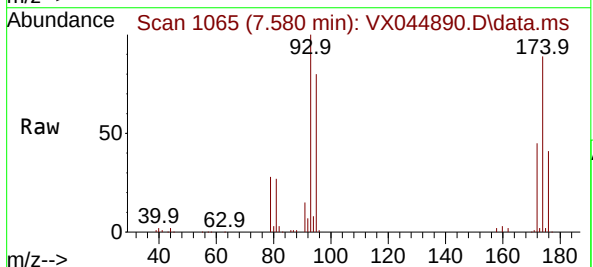
Tgt Ion: 93 Resp: 54189

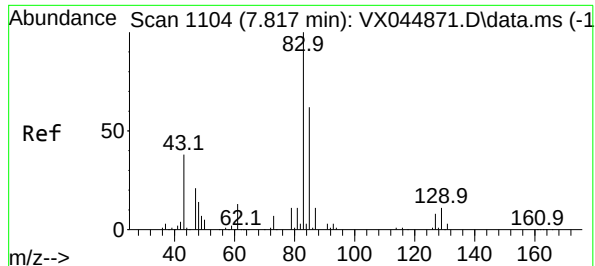
Ion Ratio Lower Upper

93 100

95 83.1 66.2 99.4

174 89.2 69.9 104.9





#47

Bromodichloromethane

Concen: 52.350 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion: 83 Resp: 107110

Ion Ratio Lower Upper

83 100

85 62.7 50.0 75.0

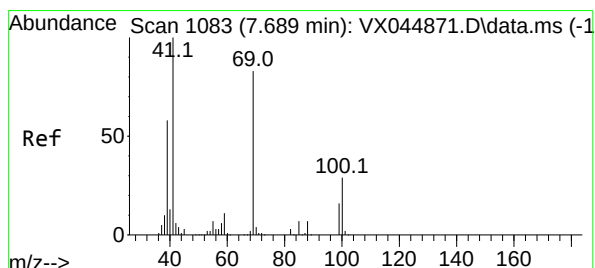
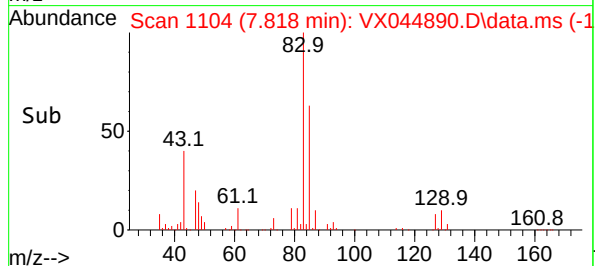
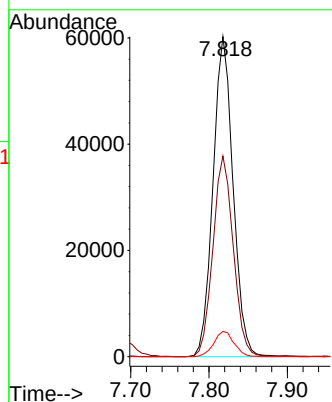
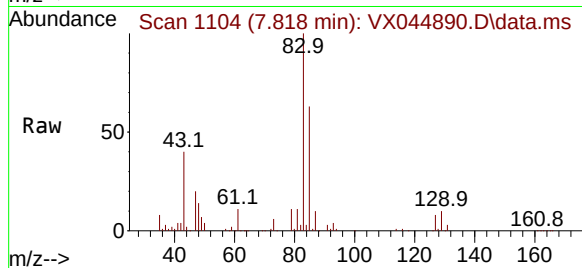
127 7.9 6.4 9.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#48

Methyl methacrylate

Concen: 53.952 ug/l

RT: 7.690 min Scan# 1083

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

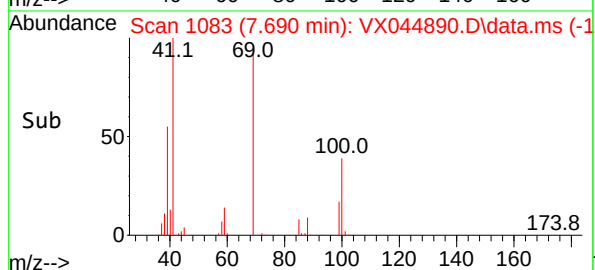
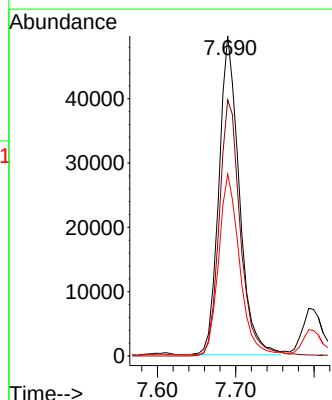
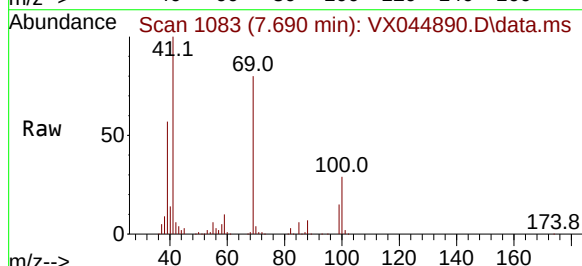
Tgt Ion: 41 Resp: 89624

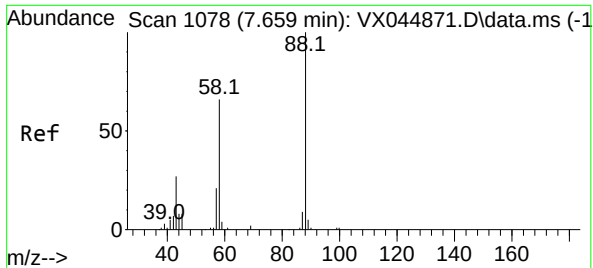
Ion Ratio Lower Upper

41 100

69 83.7 65.8 98.8

39 57.8 46.4 69.6





#49

1,4-Dioxane

Concen: 909.384 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. 0.006 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

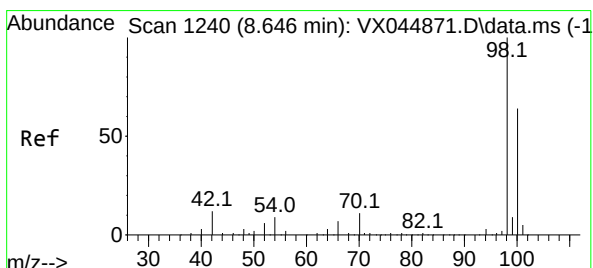
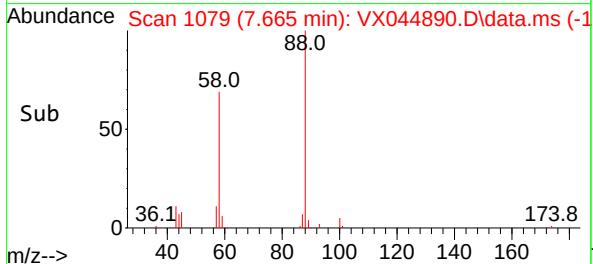
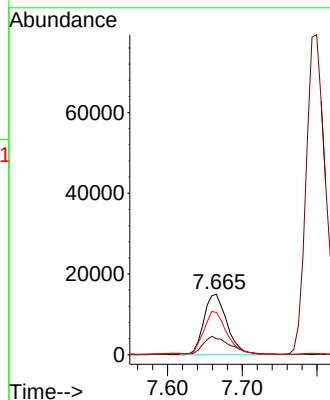
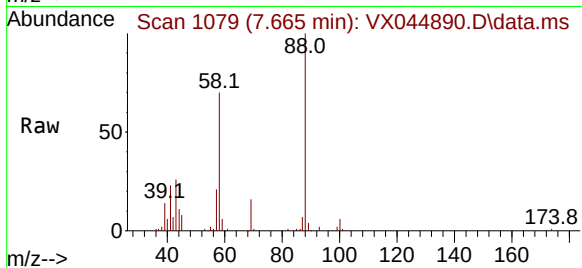
Tgt Ion: 88	Resp: 3241
Ion Ratio	Lower Upper
88 100	
43 34.1	26.6 39.8
58 71.8	55.9 83.9

Manual Integrations

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Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#50

Toluene-d8

Concen: 50.983 ug/l

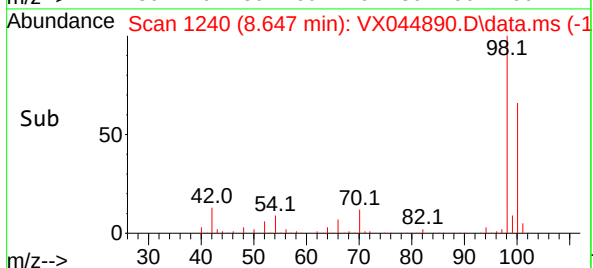
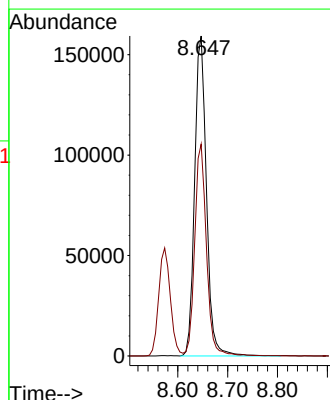
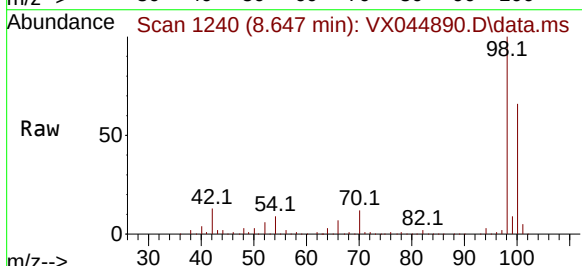
RT: 8.647 min Scan# 1240

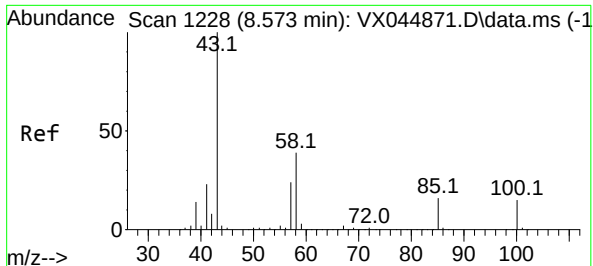
Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Tgt Ion: 98	Resp: 262105
Ion Ratio	Lower Upper
98 100	
100 66.0	52.7 79.1





#51

4-Methyl-2-Pentanone

Concen: 280.896 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion: 43 Resp: 60163

Ion Ratio Lower Upper

43 100

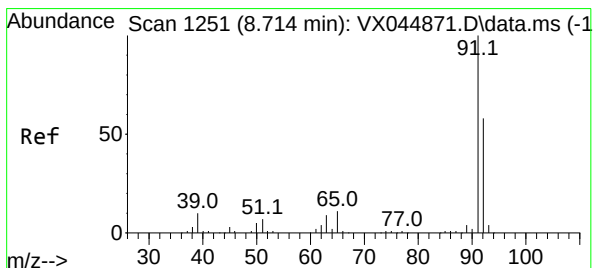
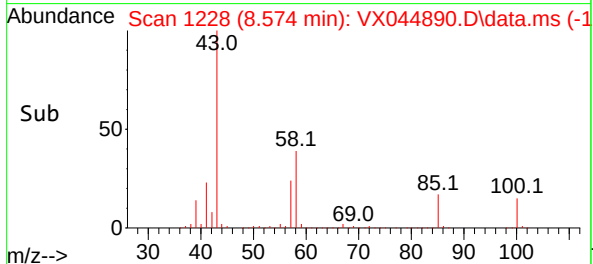
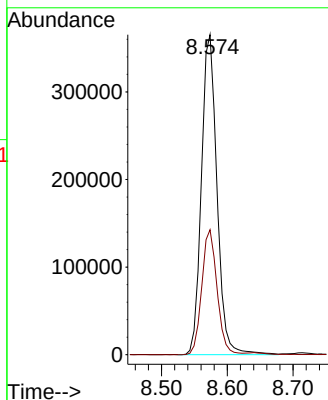
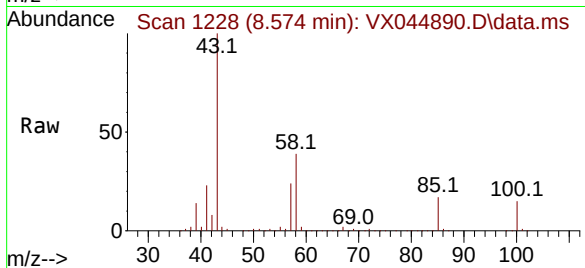
58 38.3 30.8 46.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#52

Toluene

Concen: 51.845 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. 0.000 min

Lab File: VX044890.D

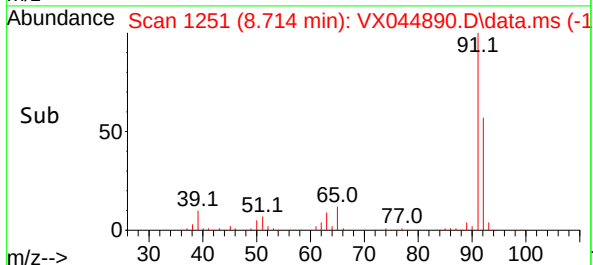
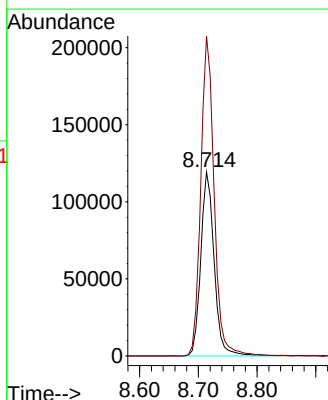
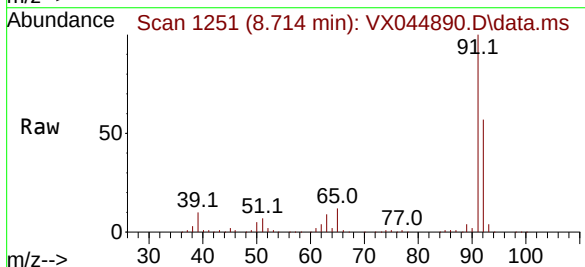
Acq: 10 Feb 2025 19:09

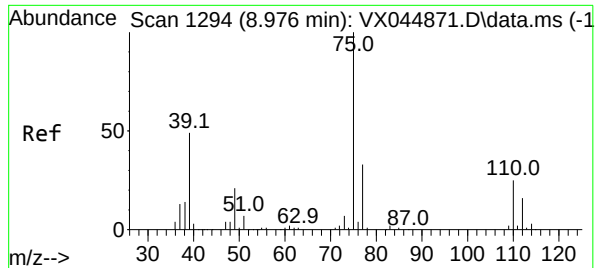
Tgt Ion: 92 Resp: 189112

Ion Ratio Lower Upper

92 100

91 173.8 137.4 206.2





#53

t-1,3-Dichloropropene

Concen: 51.774 ug/l

RT: 8.976 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion: 75 Resp: 10720

Ion Ratio Lower Upper

75 100

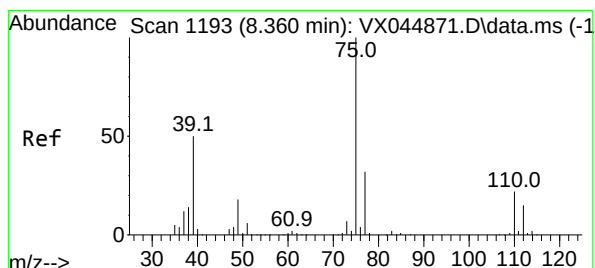
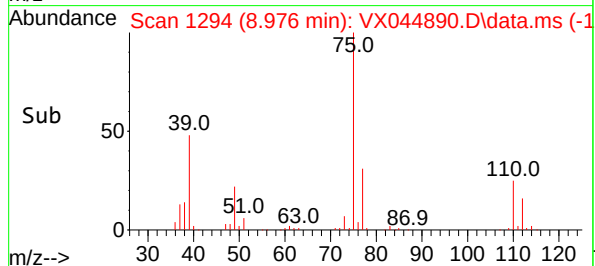
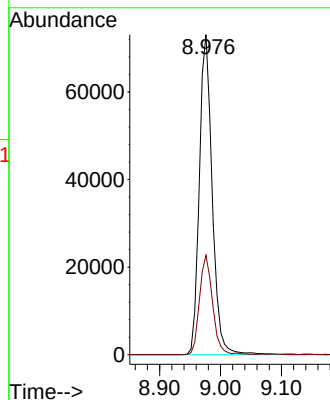
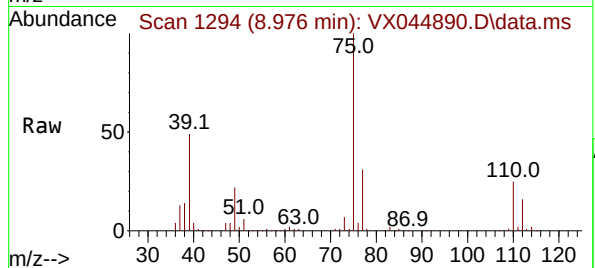
77 31.1 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#54

cis-1,3-Dichloropropene

Concen: 52.522 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

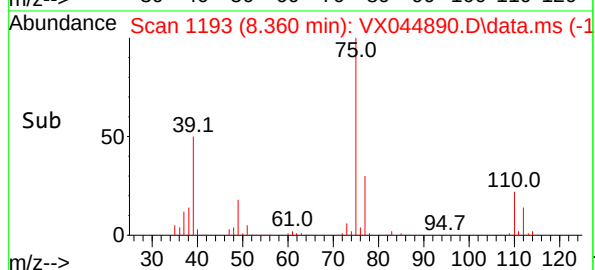
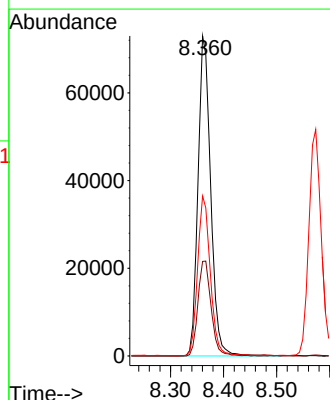
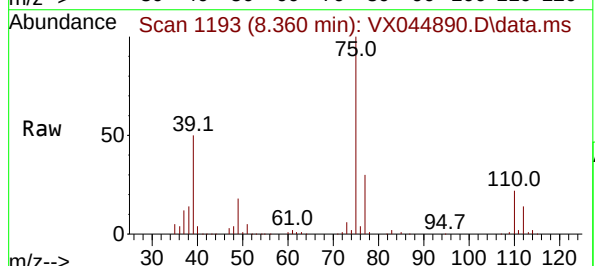
Tgt Ion: 75 Resp: 121253

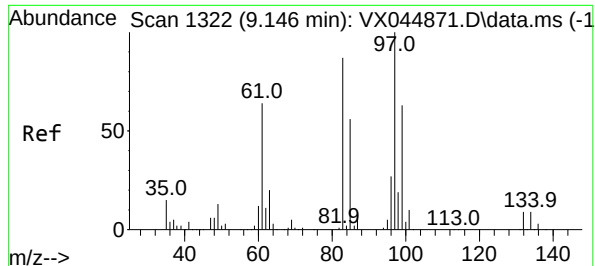
Ion Ratio Lower Upper

75 100

77 29.5 25.3 37.9

39 49.9 40.0 60.0





#55

1,1,2-Trichloroethane

Concen: 52.567 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion: 97 Resp: 73710

Ion Ratio Lower Upper

97 100

83 89.0 69.8 104.6

85 57.5 44.8 67.2

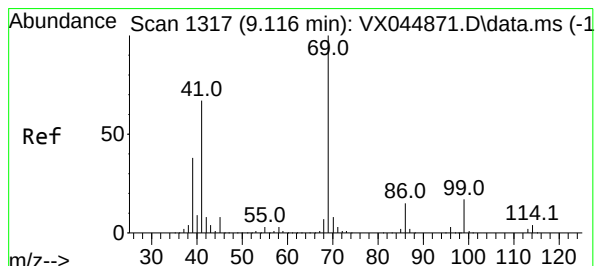
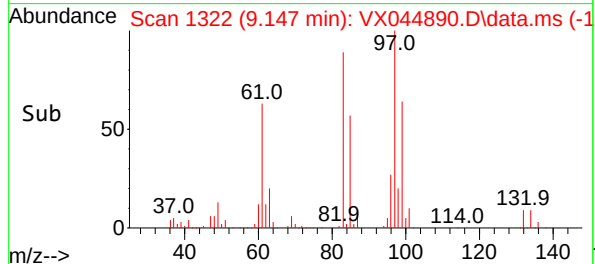
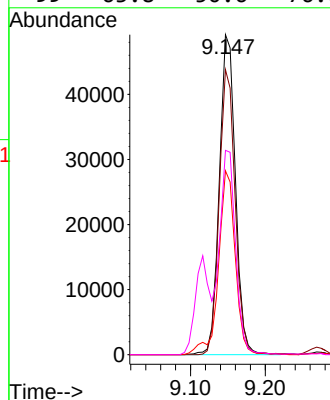
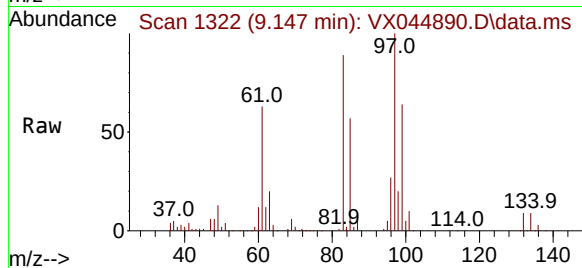
99 63.8 50.6 76.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#56

Ethyl methacrylate

Concen: 55.428 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

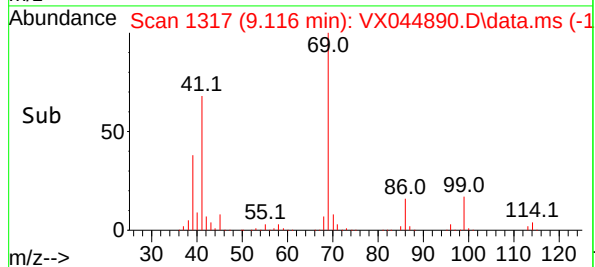
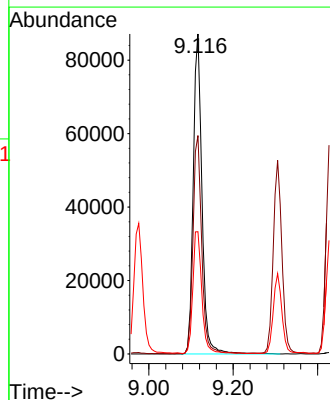
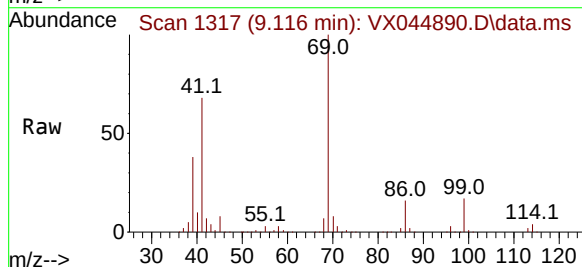
Tgt Ion: 69 Resp: 125529

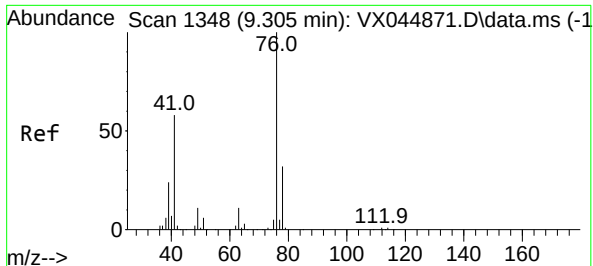
Ion Ratio Lower Upper

69 100

41 68.6 55.2 82.8

39 39.2 30.8 46.2





#57

1,3-Dichloropropane

Concen: 52.491 ug/l

RT: 9.305 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion: 76 Resp: 128784

Ion Ratio Lower Upper

76 100

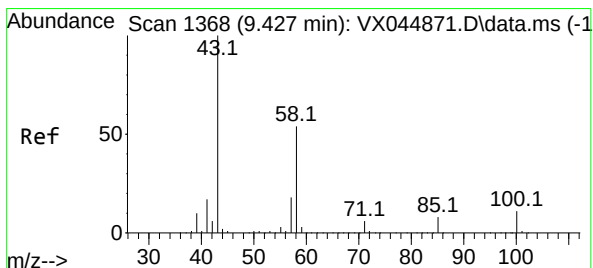
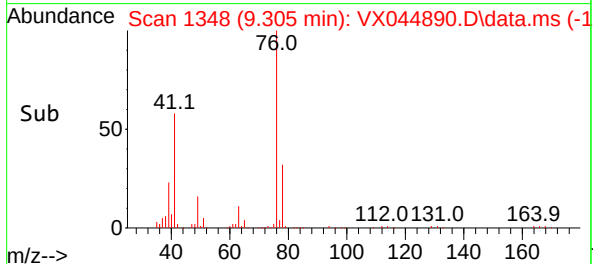
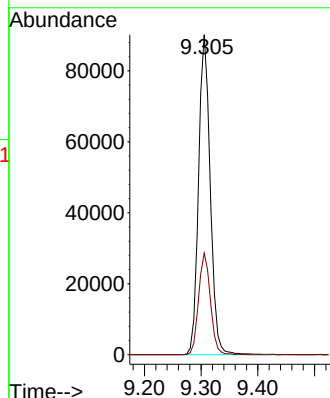
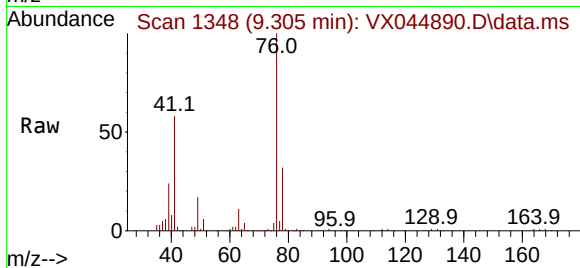
78 32.1 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#59

2-Hexanone

Concen: 284.672 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX044890.D

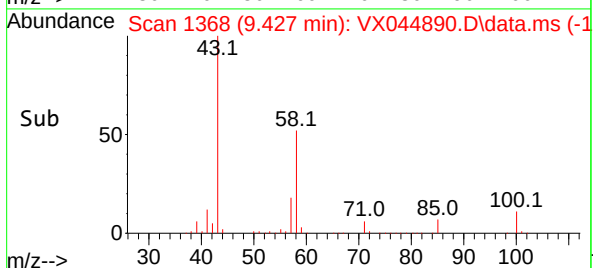
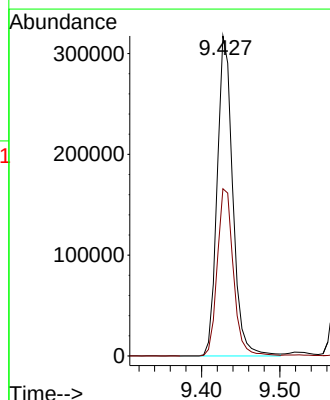
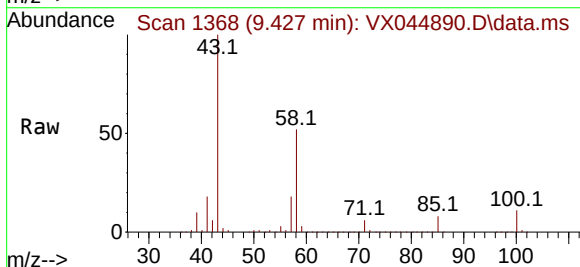
Acq: 10 Feb 2025 19:09

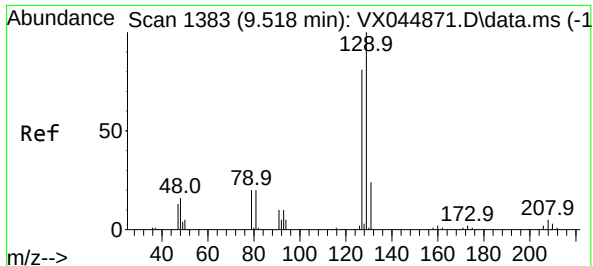
Tgt Ion: 43 Resp: 439312

Ion Ratio Lower Upper

43 100

58 53.9 27.5 82.4





#60

Dibromochloromethane

Concen: 52.810 ug/l

RT: 9.519 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion:129 Resp: 79194

Ion Ratio Lower Upper

129 100

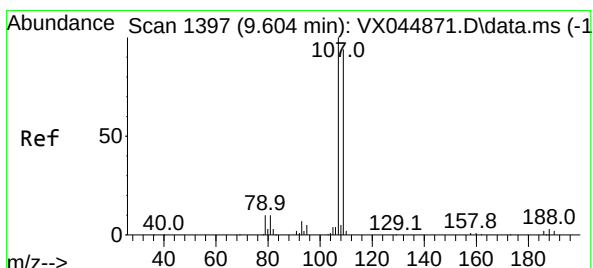
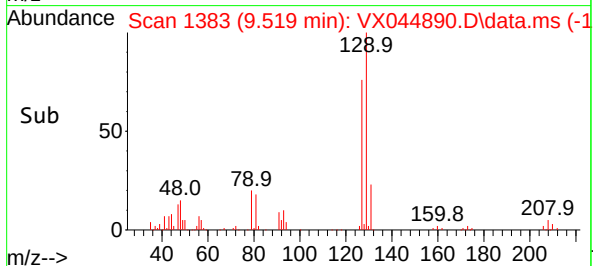
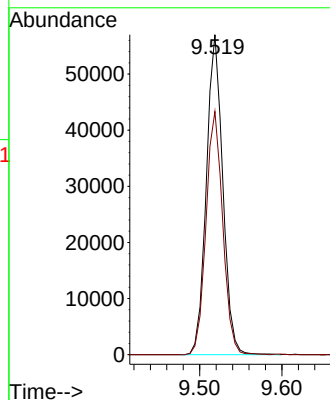
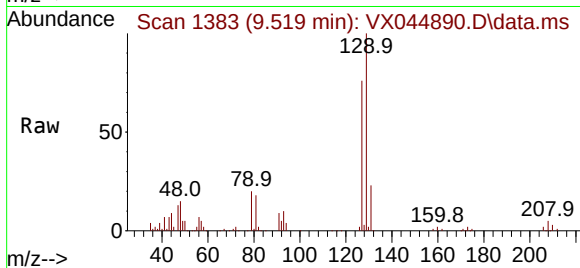
127 77.4 39.1 117.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#61

1,2-Dibromoethane

Concen: 53.005 ug/l

RT: 9.604 min Scan# 1397

Delta R.T. 0.000 min

Lab File: VX044890.D

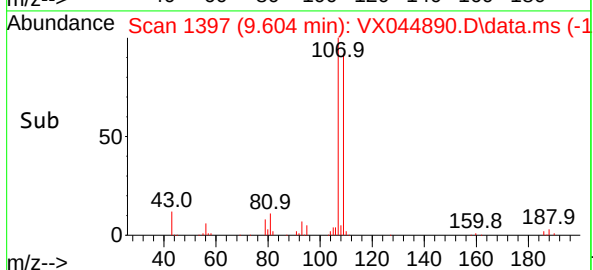
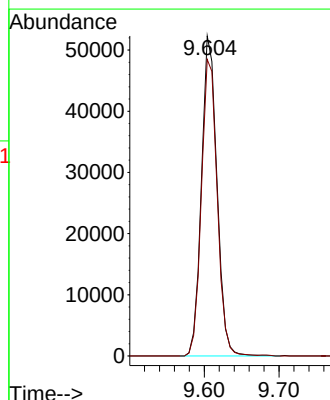
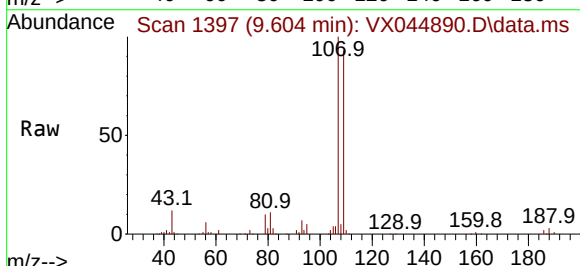
Acq: 10 Feb 2025 19:09

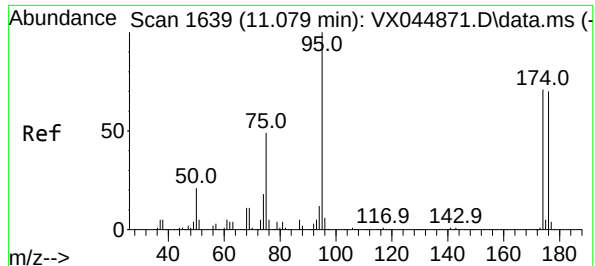
Tgt Ion:107 Resp: 75331

Ion Ratio Lower Upper

107 100

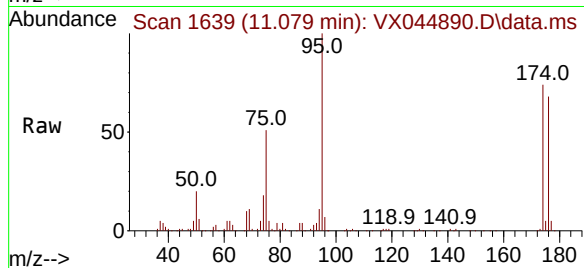
109 94.3 75.9 113.9





#62
4-Bromofluorobenzene
Concen: 51.634 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

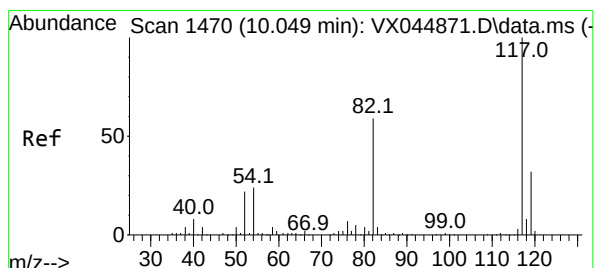
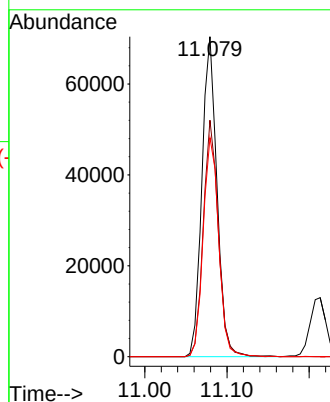
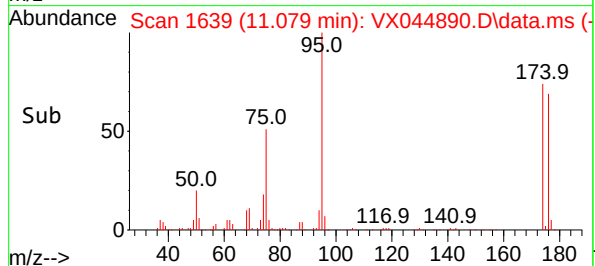
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MSD



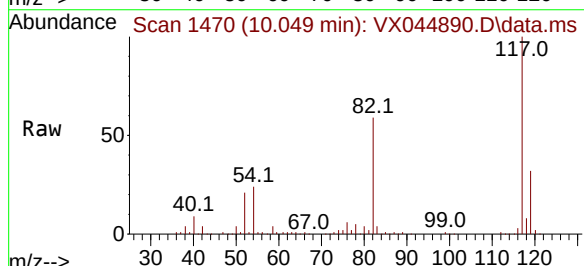
Tgt Ion: 95 Resp: 89489
Ion Ratio Lower Upper
95 100
174 73.9 0.0 142.6
176 70.7 0.0 141.6

Manual Integrations
APPROVED

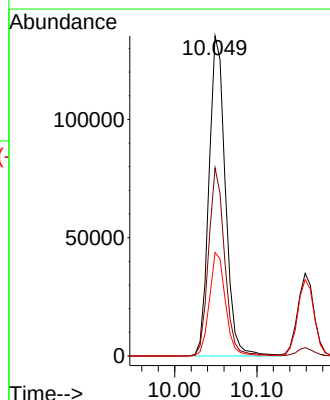
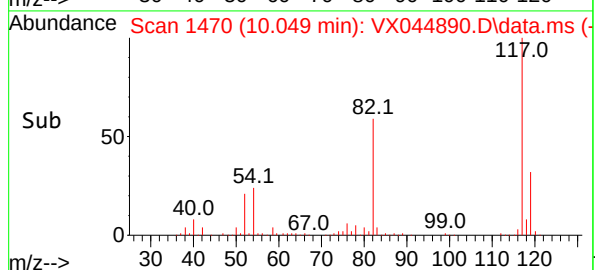
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

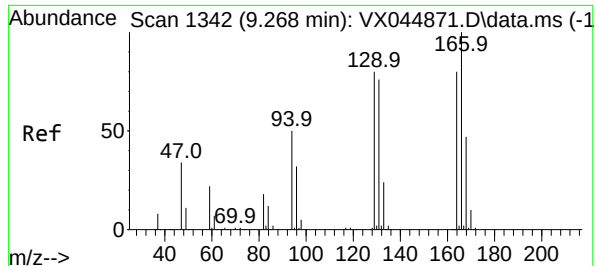


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09



Tgt Ion:117 Resp: 187126
Ion Ratio Lower Upper
117 100
82 58.8 47.5 71.3
119 32.3 25.4 38.0





#64

Tetrachloroethene

Concen: 48.487 ug/l

RT: 9.269 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion:164 Resp: 57220

Ion Ratio Lower Upper

164 100

166 123.4 100.4 150.6

129 99.5 79.9 119.9

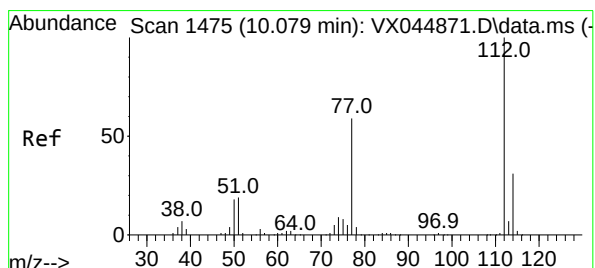
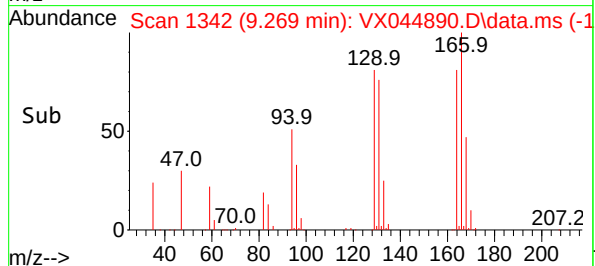
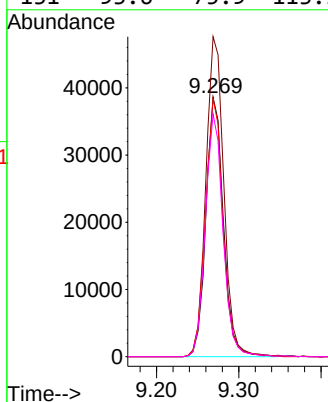
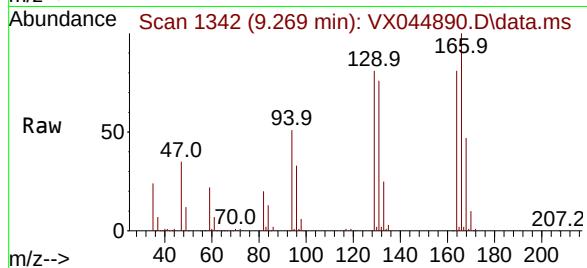
131 93.6 75.9 113.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#65

Chlorobenzene

Concen: 50.532 ug/l

RT: 10.073 min Scan# 1474

Delta R.T. -0.006 min

Lab File: VX044890.D

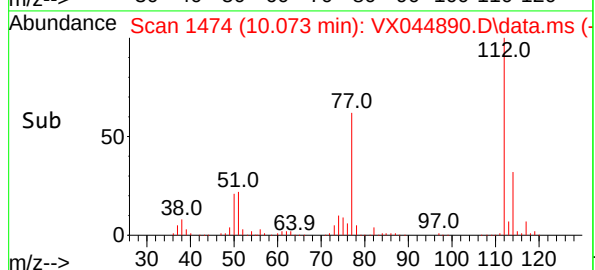
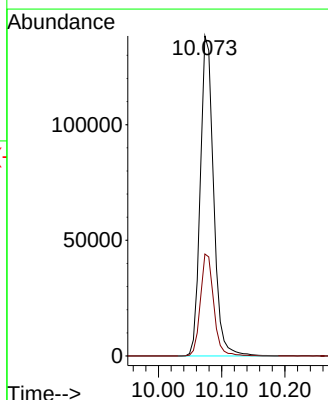
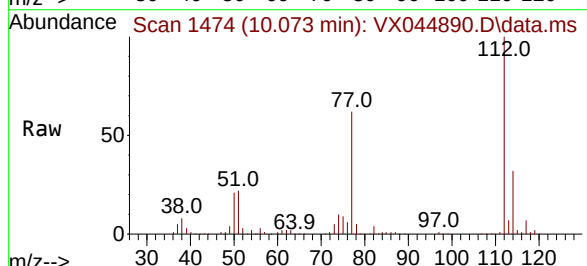
Acq: 10 Feb 2025 19:09

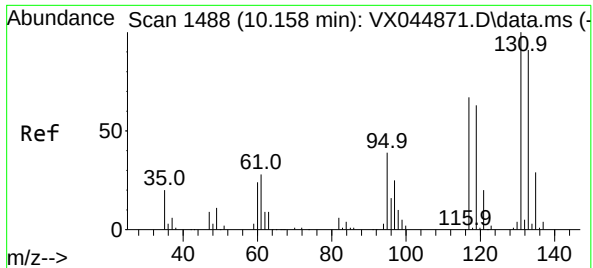
Tgt Ion:112 Resp: 203096

Ion Ratio Lower Upper

112 100

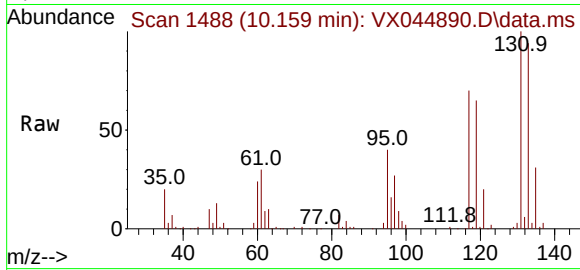
114 31.8 25.0 37.6





#66
1,1,1,2-Tetrachloroethane
Concen: 50.908 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

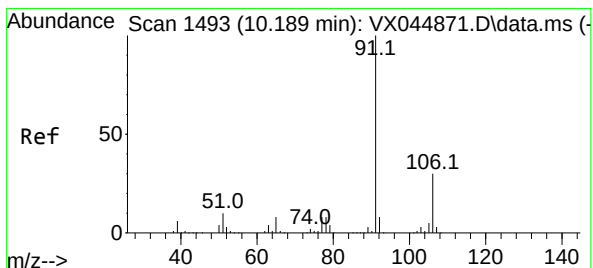
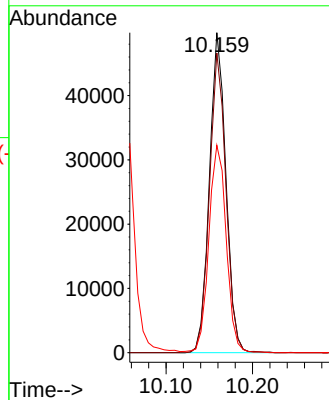
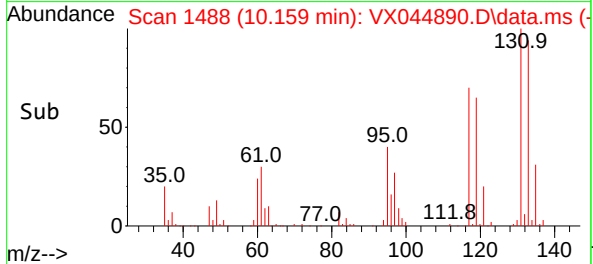
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MSD



Tgt Ion:131 Resp: 6585
Ion Ratio Lower Upper
131 100
133 94.0 47.1 141.3
119 68.6 33.6 100.6

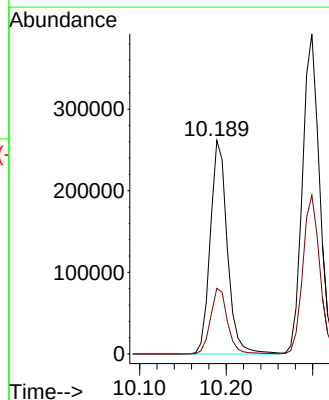
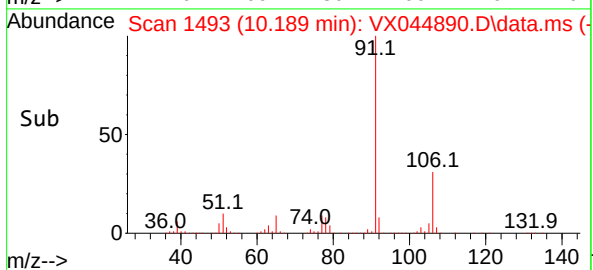
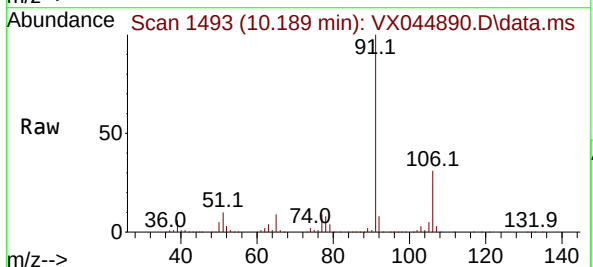
Manual Integrations
APPROVED

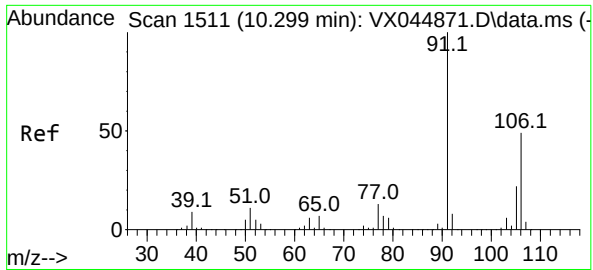
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#67
Ethyl Benzene
Concen: 50.410 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

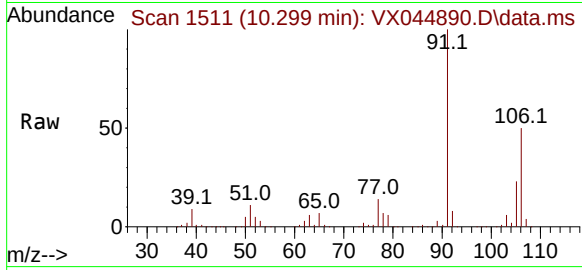
Tgt Ion: 91 Resp: 357538
Ion Ratio Lower Upper
91 100
106 30.7 23.9 35.9





#68
m/p-Xylenes
Concen: 103.122 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

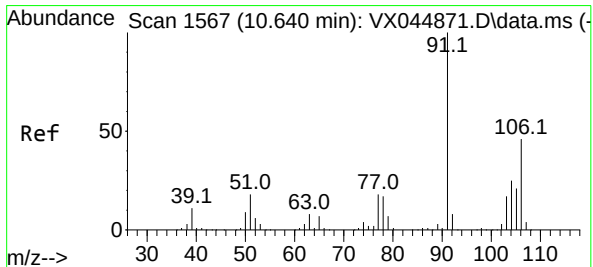
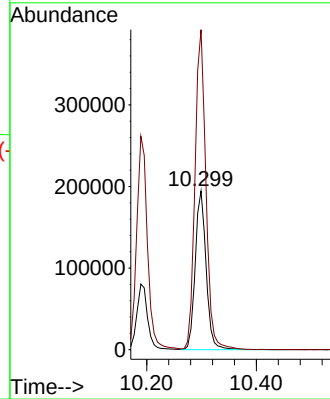
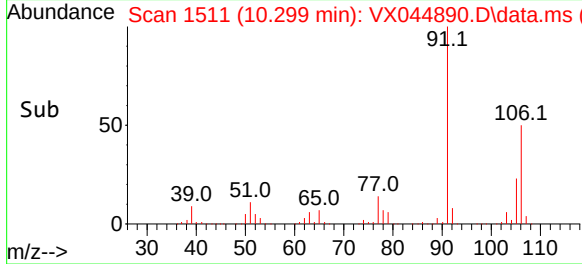
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MSD



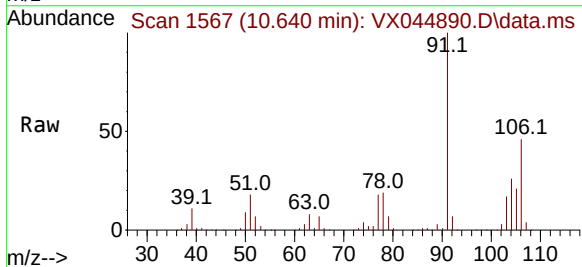
Tgt Ion:106 Resp: 269804
Ion Ratio Lower Upper
106 100
91 201.8 164.3 246.5

Manual Integrations
APPROVED

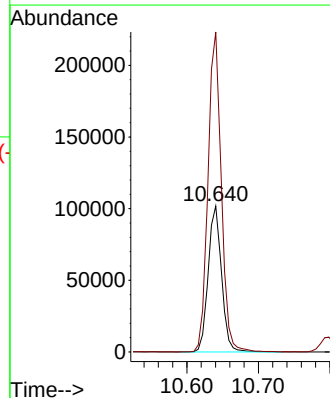
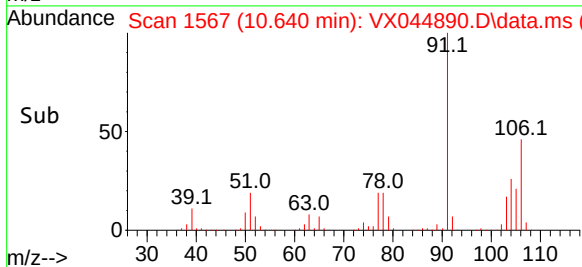
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

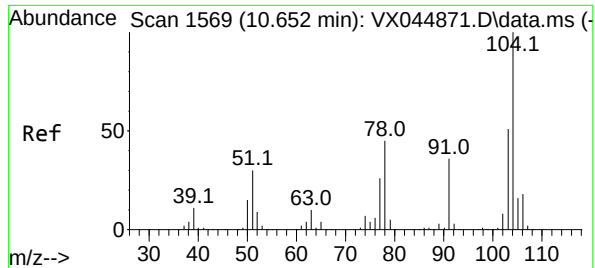


#69
o-Xylene
Concen: 50.416 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09



Tgt Ion:106 Resp: 132356
Ion Ratio Lower Upper
106 100
91 218.1 108.5 325.5





#70

Styrene

Concen: 52.558 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion:104 Resp: 222298

Ion Ratio Lower Upper

104 100

78 50.7 40.5 60.7

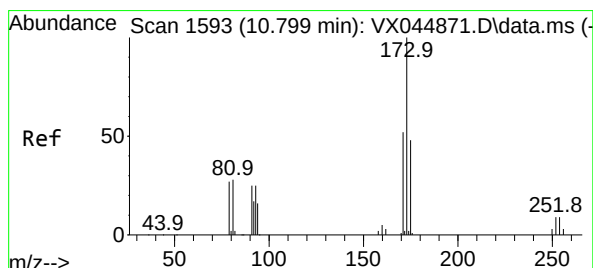
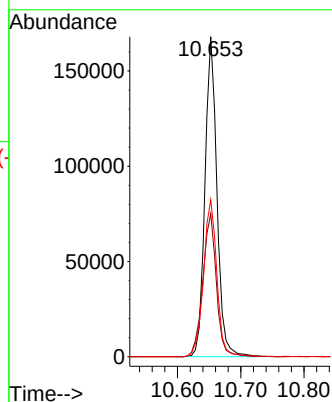
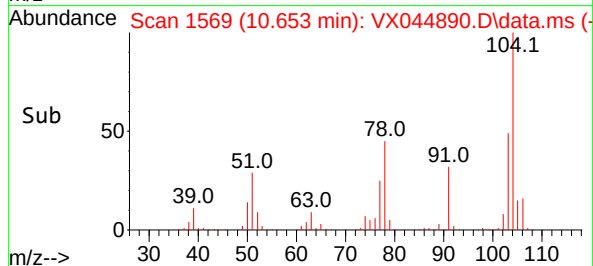
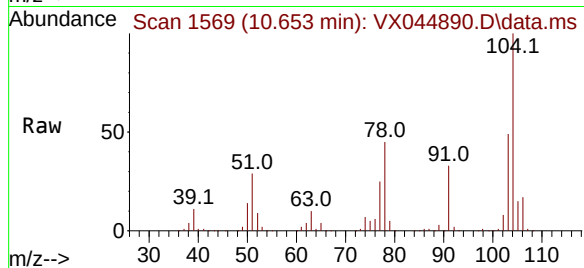
103 54.6 43.6 65.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#71

Bromoform

Concen: 53.207 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

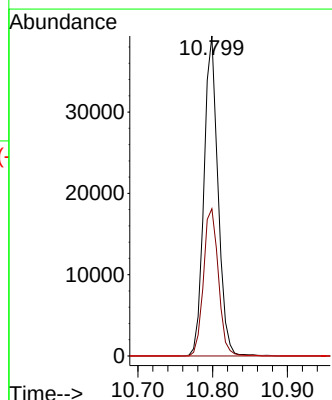
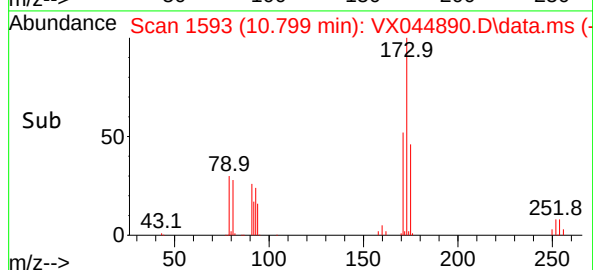
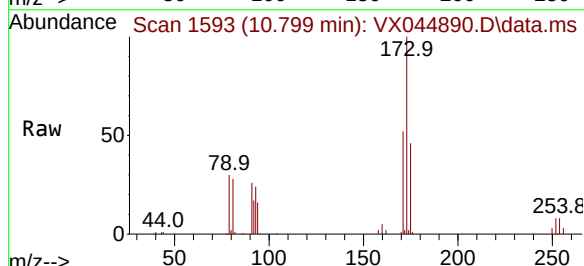
Tgt Ion:173 Resp: 51369

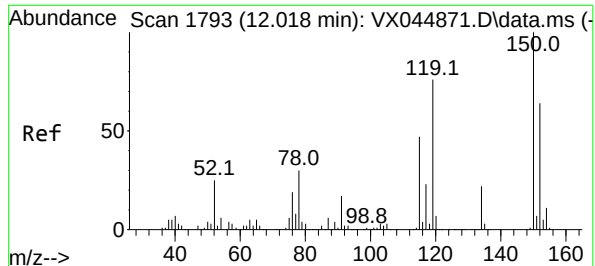
Ion Ratio Lower Upper

173 100

175 48.7 24.3 72.8

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: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion:152 Resp: 83002

Ion Ratio Lower Upper

152 100

115 87.0 43.4 130.1

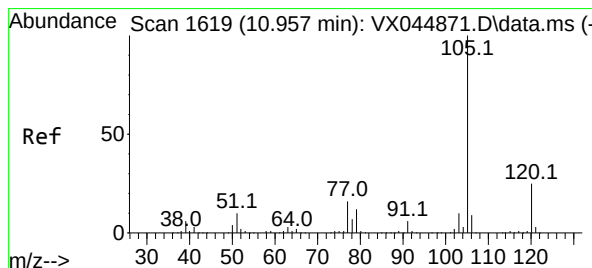
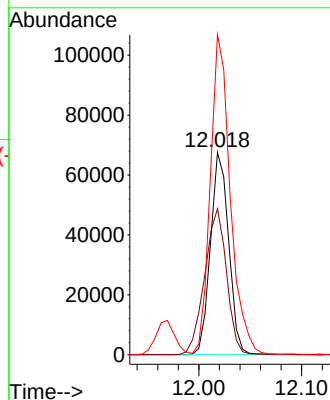
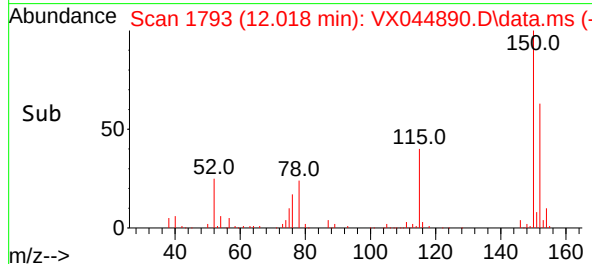
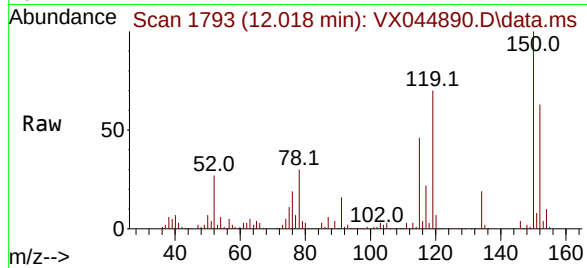
150 172.8 0.0 350.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#73

Isopropylbenzene

Concen: 50.586 ug/l

RT: 10.957 min Scan# 1619

Delta R.T. 0.000 min

Lab File: VX044890.D

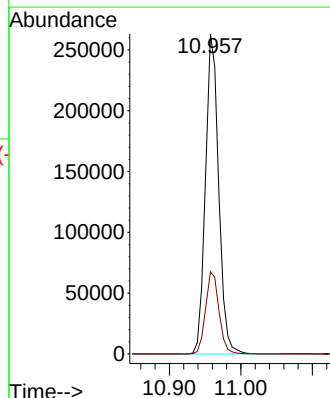
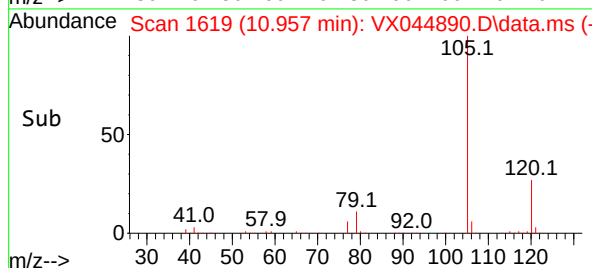
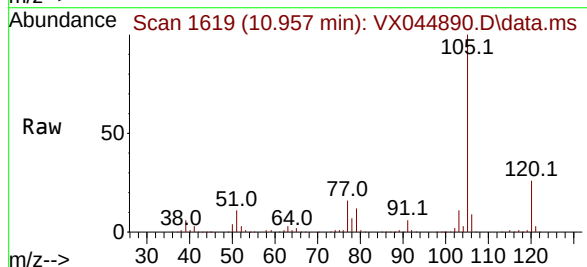
Acq: 10 Feb 2025 19:09

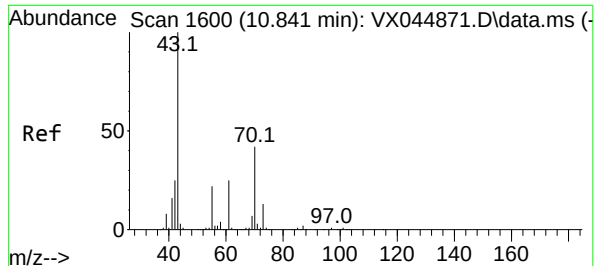
Tgt Ion:105 Resp: 338076

Ion Ratio Lower Upper

105 100

120 26.1 13.2 39.5





#74

N-ethyl acetate

Concen: 53.219 ug/l

RT: 10.842 min Scan# 16094

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion: 43 Resp: 16094

Ion Ratio Lower Upper

43 100

70 41.5 33.7 50.5

55 23.4 18.6 27.8

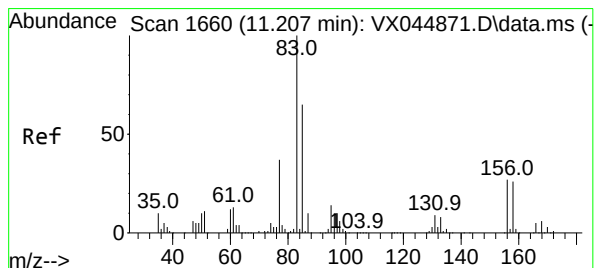
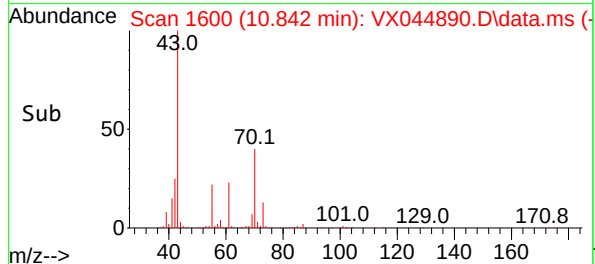
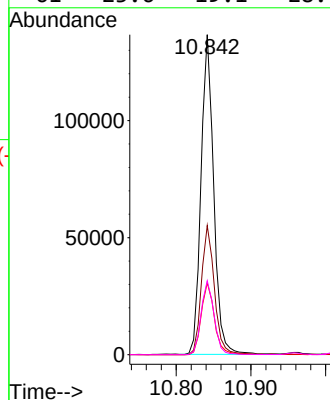
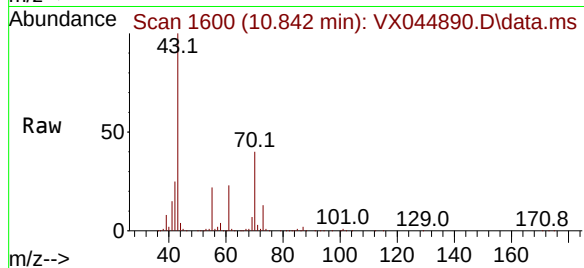
61 23.6 19.1 28.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#75

1,1,2,2-Tetrachloroethane

Concen: 50.574 ug/l

RT: 11.213 min Scan# 1661

Delta R.T. 0.006 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

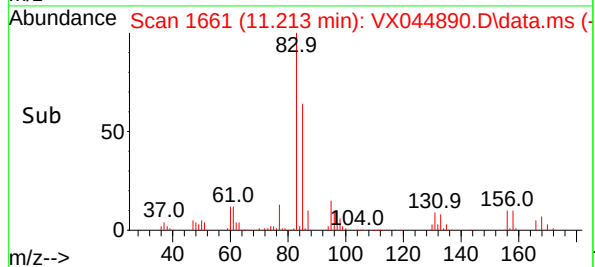
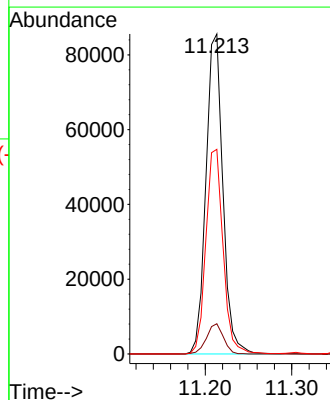
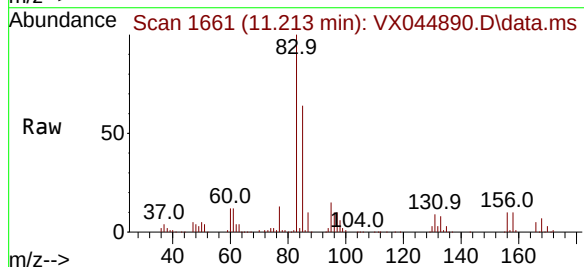
Tgt Ion: 83 Resp: 116145

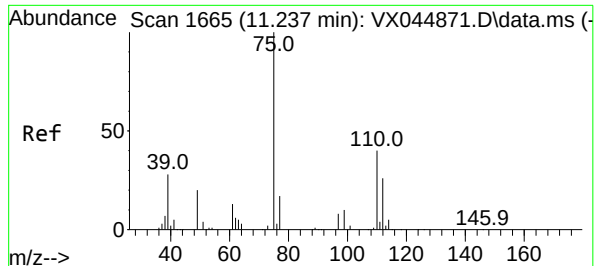
Ion Ratio Lower Upper

83 100

131 9.4 4.5 13.5

85 64.9 32.3 96.8





#76

1,2,3-Trichloropropane

Concen: 52.106 ug/l m

RT: 11.238 min Scan# 1665

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion: 75 Resp: 95889

Ion Ratio Lower Upper

75 100

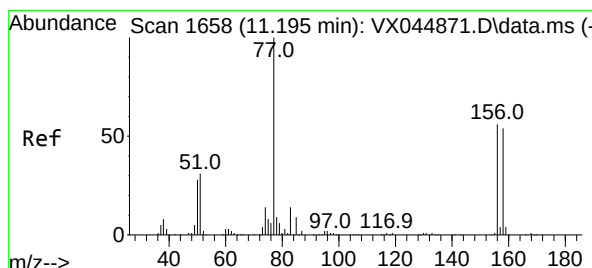
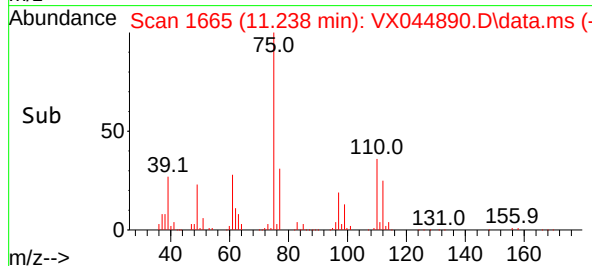
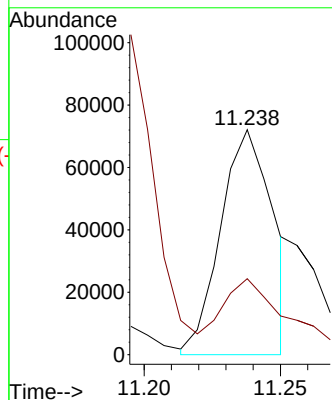
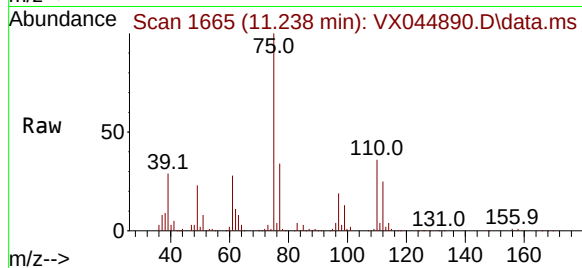
77 43.0 21.9 65.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#77

Bromobenzene

Concen: 50.993 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

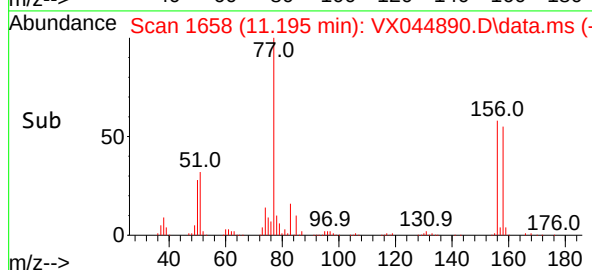
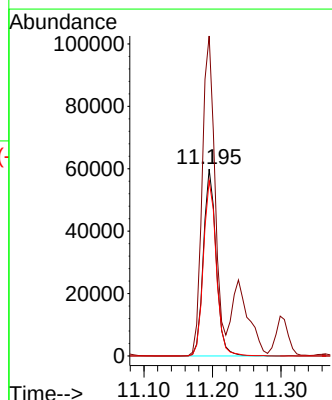
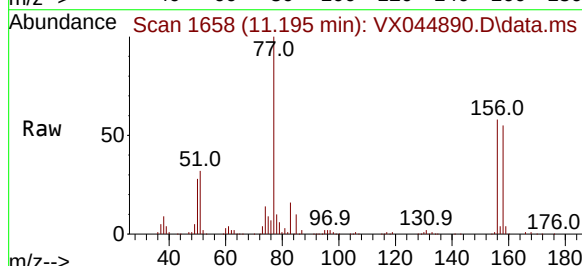
Tgt Ion:156 Resp: 77264

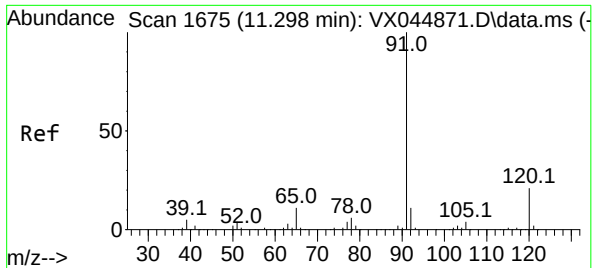
Ion Ratio Lower Upper

156 100

77 173.1 88.4 265.3

158 95.6 48.4 145.2





#78

n-propylbenzene

Concen: 50.983 ug/l

RT: 11.299 min Scan# 1675

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion: 91 Resp: 393280

Ion Ratio Lower Upper

91 100

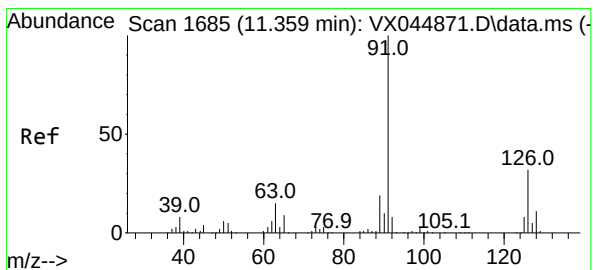
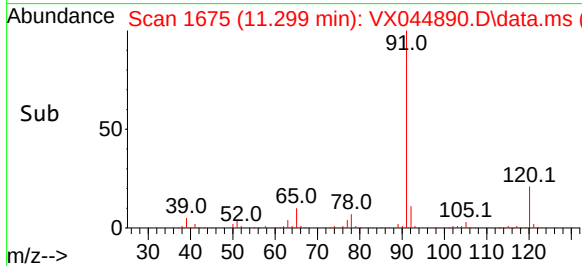
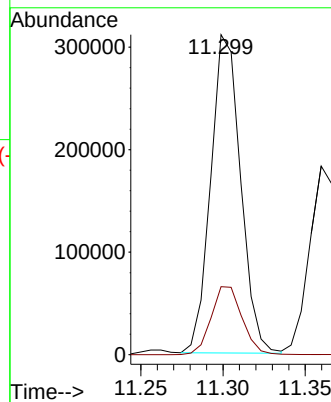
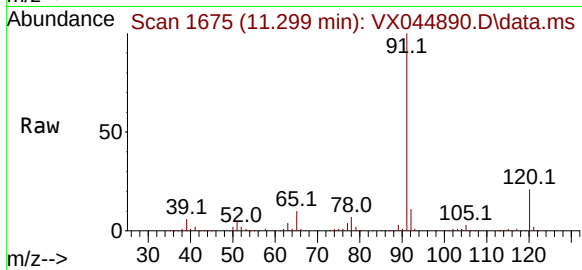
120 22.2 11.1 33.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#79

2-Chlorotoluene

Concen: 49.710 ug/l

RT: 11.360 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VX044890.D

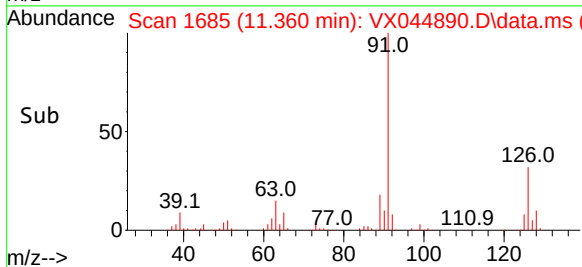
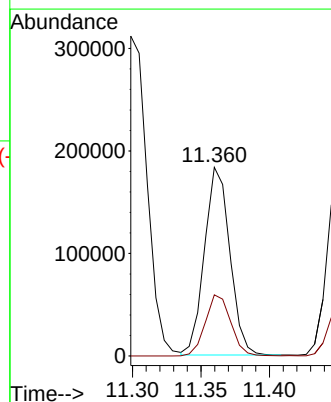
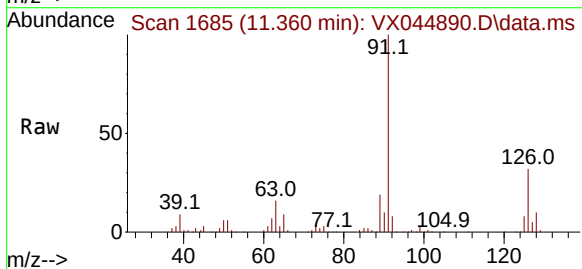
Acq: 10 Feb 2025 19:09

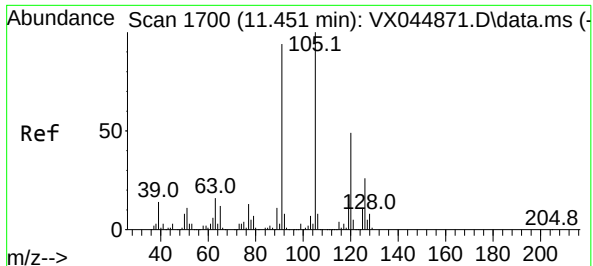
Tgt Ion: 91 Resp: 235674

Ion Ratio Lower Upper

91 100

126 32.8 16.2 48.6





#80

1,3,5-Trimethylbenzene

Concen: 50.729 ug/l

RT: 11.451 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion:105 Resp: 275124

Ion Ratio Lower Upper

105 100

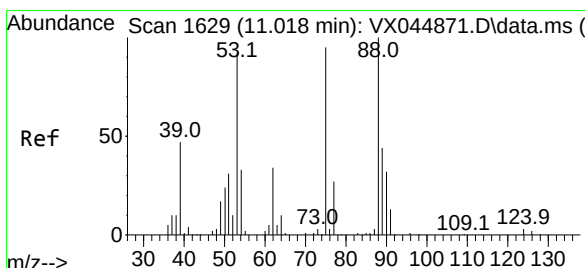
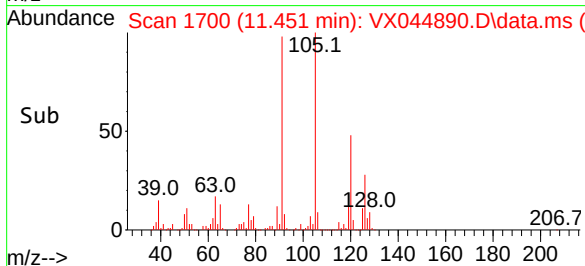
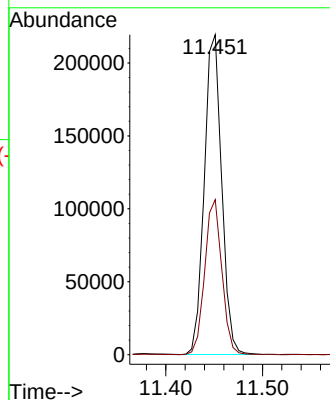
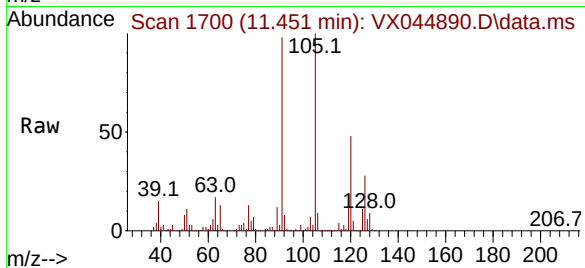
120 47.7 24.0 72.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#81

trans-1,4-Dichloro-2-butene

Concen: 49.543 ug/l

RT: 11.018 min Scan# 1629

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

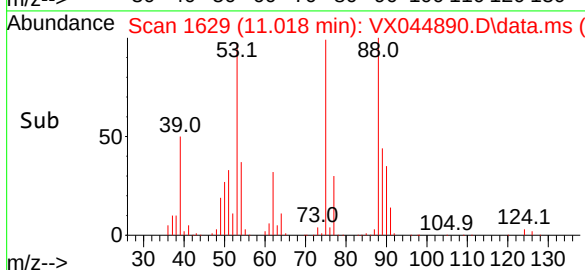
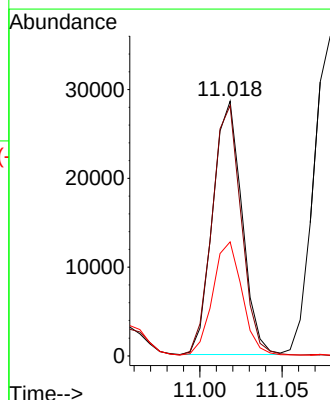
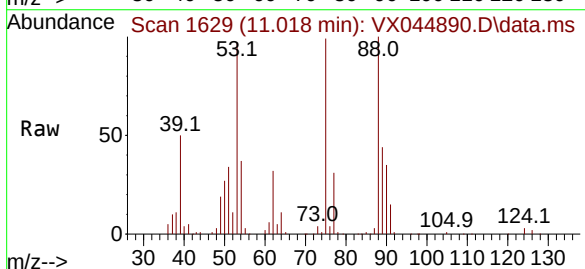
Tgt Ion: 75 Resp: 35443

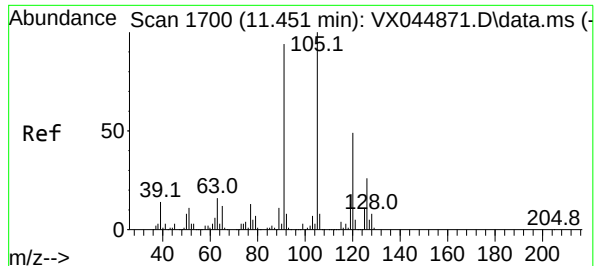
Ion Ratio Lower Upper

75 100

53 99.3 78.0 117.0

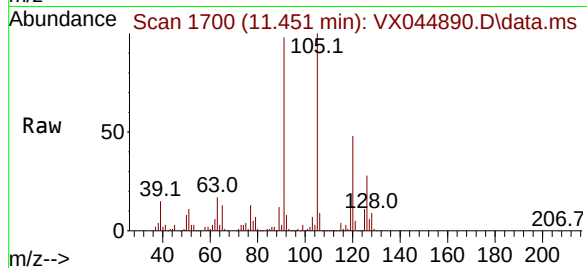
89 45.1 36.6 54.8





#82
4-Chlorotoluene
Concen: 50.605 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

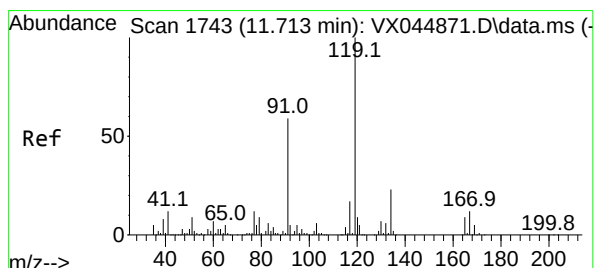
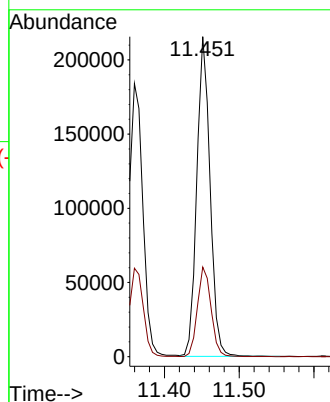
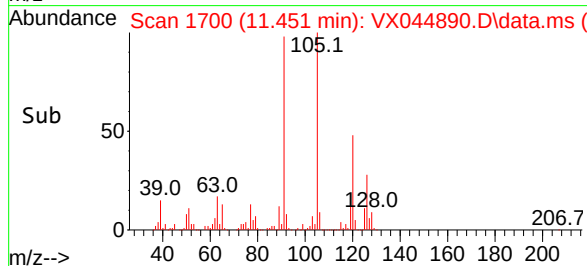
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MSD



Tgt Ion: 91 Resp: 26543
Ion Ratio Lower Upper
91 100
126 28.9 14.2 42.6

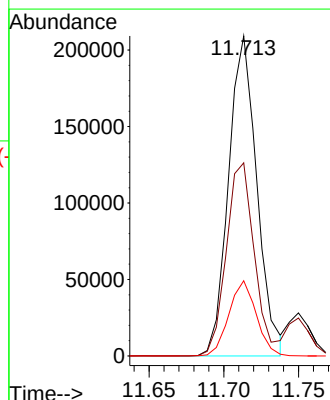
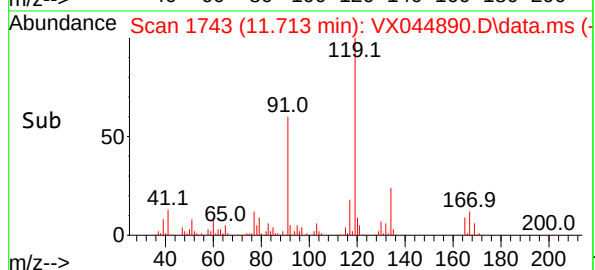
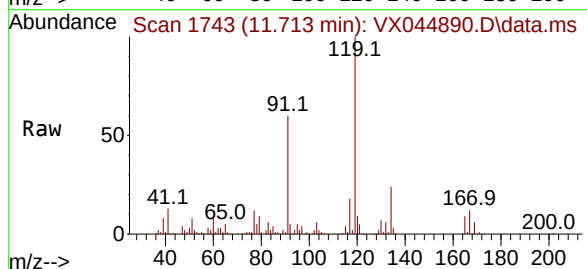
Manual Integrations
APPROVED

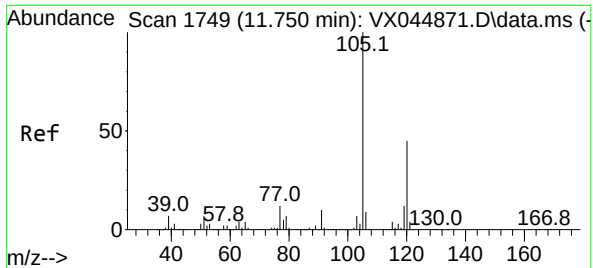
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#83
tert-Butylbenzene
Concen: 50.304 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

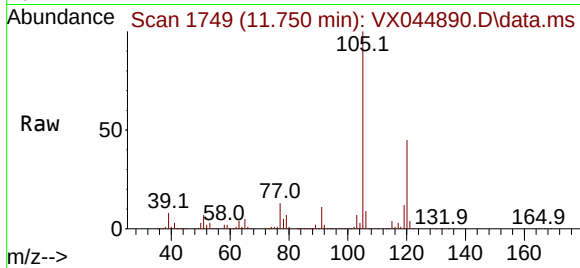
Tgt Ion:119 Resp: 275996
Ion Ratio Lower Upper
119 100
91 58.8 29.1 87.4
134 22.7 11.5 34.5





#84
1,2,4-Trimethylbenzene
Concen: 51.965 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

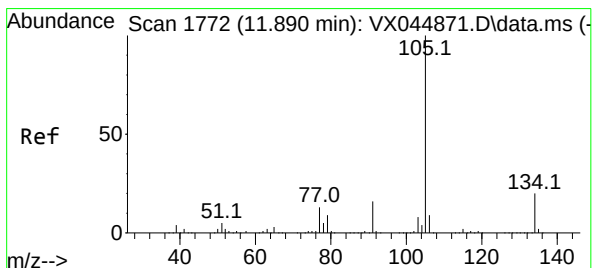
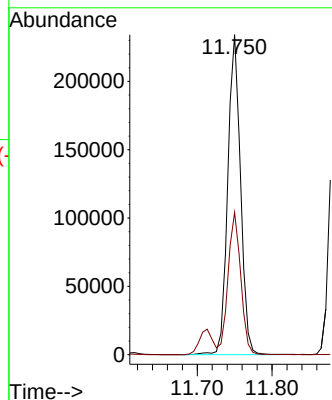
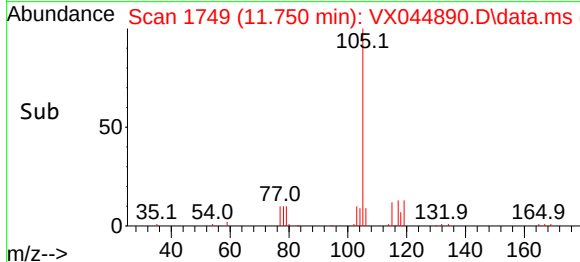
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MSD



Tgt Ion:105 Resp: 27816
Ion Ratio Lower Upper
105 100
120 44.5 22.4 67.0

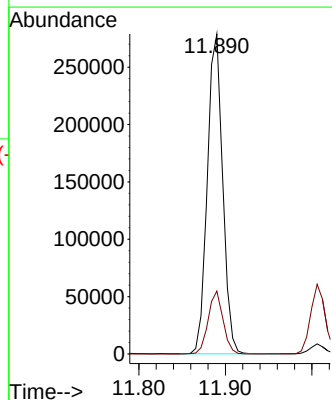
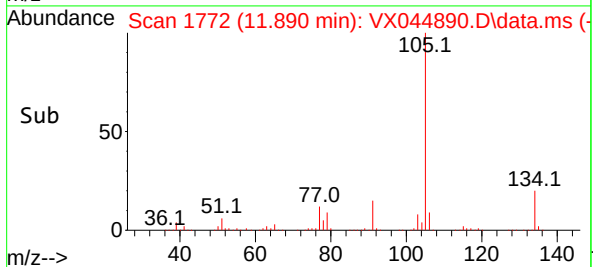
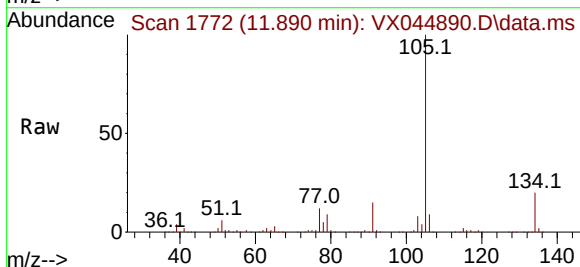
Manual Integrations
APPROVED

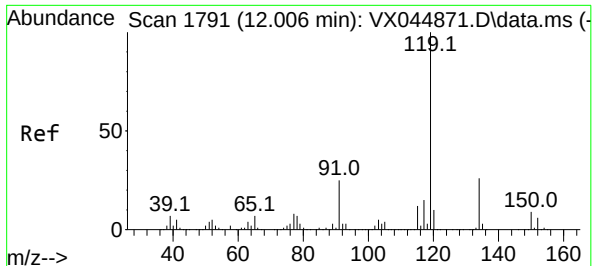
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#85
sec-Butylbenzene
Concen: 50.415 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

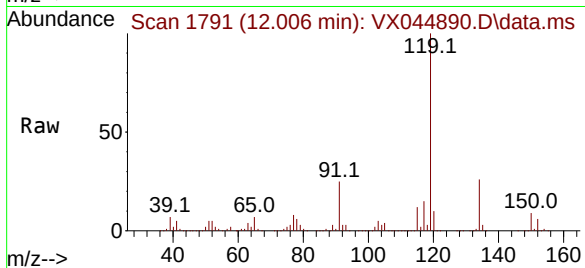
Tgt Ion:105 Resp: 342516
Ion Ratio Lower Upper
105 100
134 19.1 9.8 29.3





#86
p-Isopropyltoluene
Concen: 50.460 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

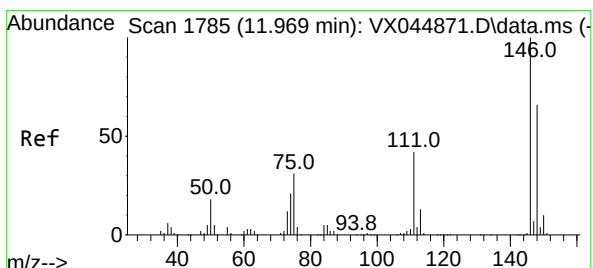
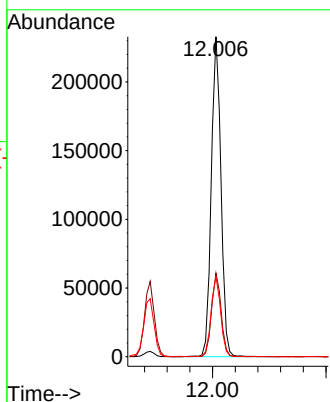
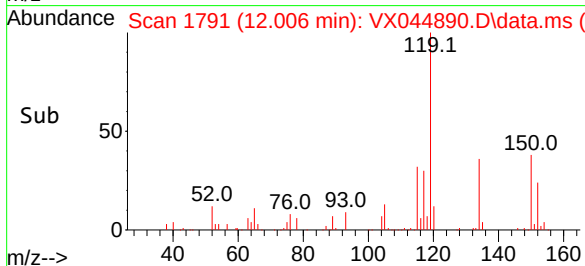
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MSD



Tgt Ion:119 Resp: 275690
Ion Ratio Lower Upper
119 100
134 25.8 13.0 38.9
91 24.8 12.1 36.3

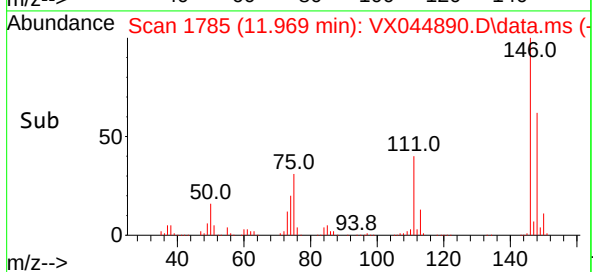
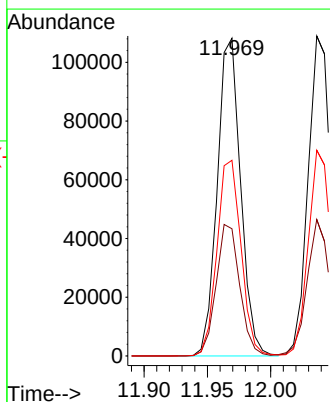
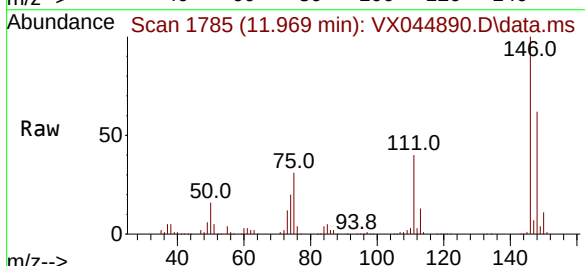
Manual Integrations
APPROVED

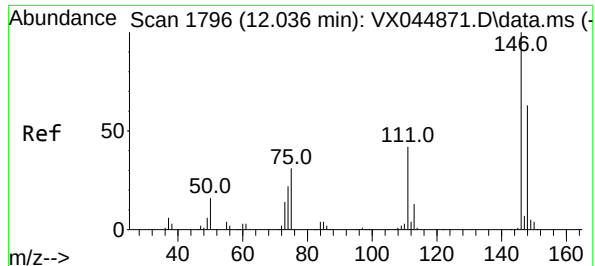
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#87
1,3-Dichlorobenzene
Concen: 49.911 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

Tgt Ion:146 Resp: 139069
Ion Ratio Lower Upper
146 100
111 41.8 21.2 63.6
148 63.4 32.5 97.5





#88

1,4-Dichlorobenzene

Concen: 49.155 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion:146 Resp: 13848

Ion Ratio Lower Upper

146 100

111 41.5 20.4 61.3

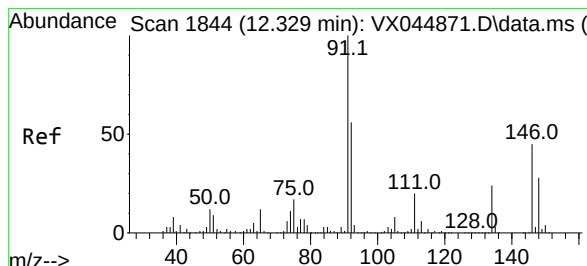
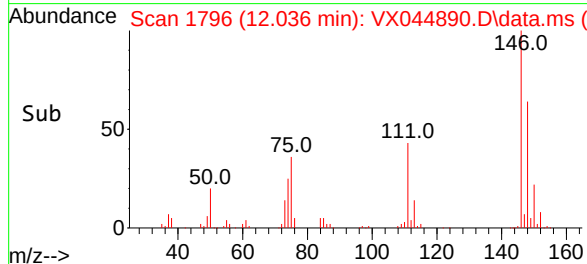
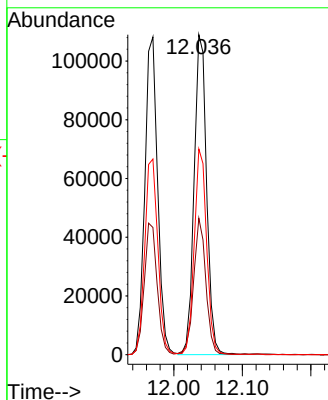
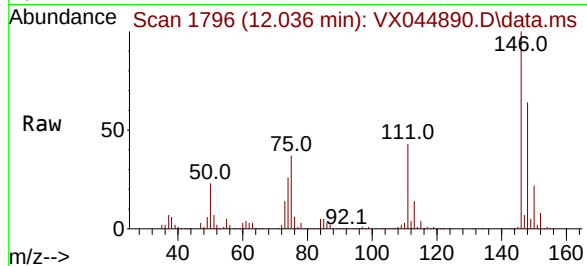
148 64.1 32.0 96.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#89

n-Butylbenzene

Concen: 50.735 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

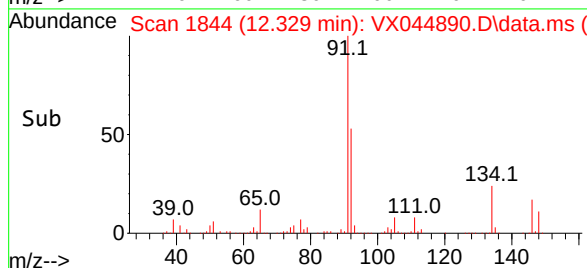
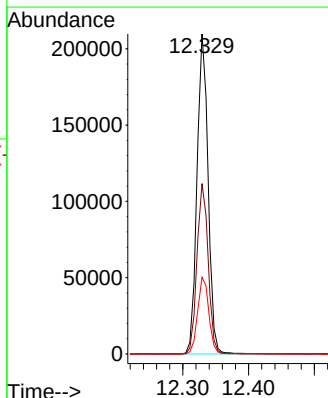
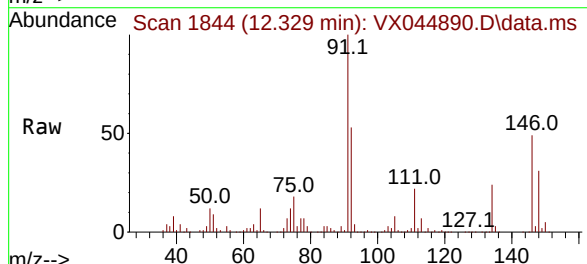
Tgt Ion: 91 Resp: 245231

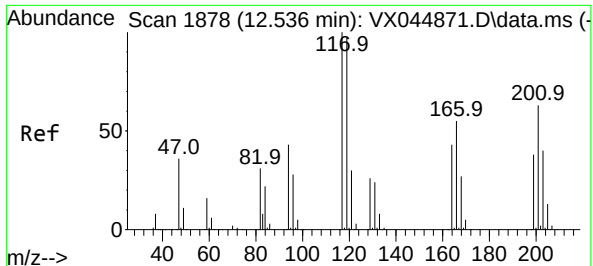
Ion Ratio Lower Upper

91 100

92 53.8 27.2 81.6

134 24.3 12.1 36.3





#90

Hexachloroethane

Concen: 48.641 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

Tgt Ion:117 Resp: 4976

Ion Ratio Lower Upper

117 100

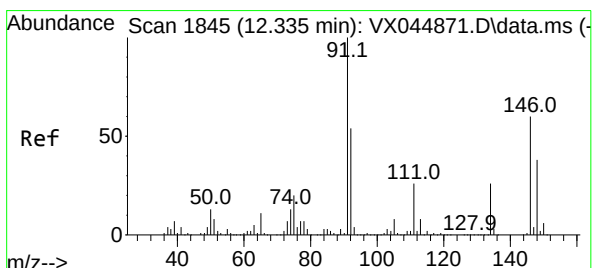
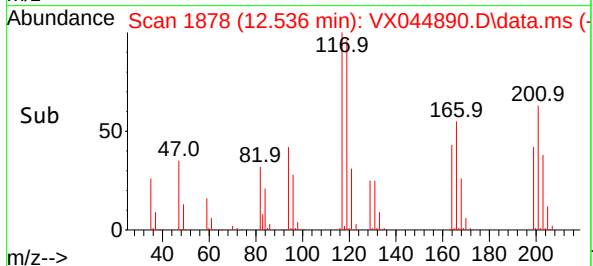
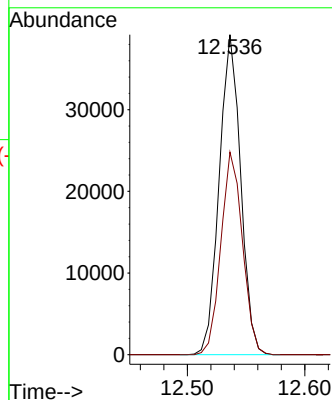
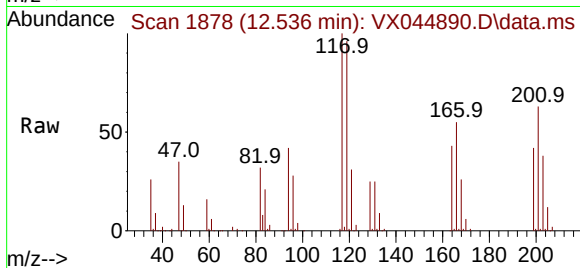
201 63.8 32.5 97.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#91

1,2-Dichlorobenzene

Concen: 51.675 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

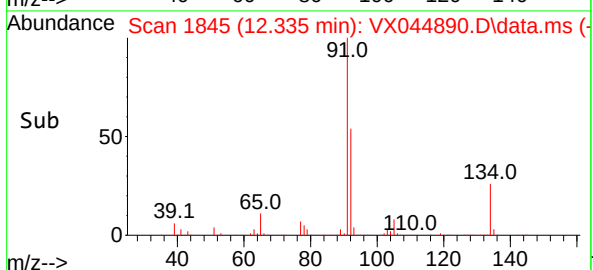
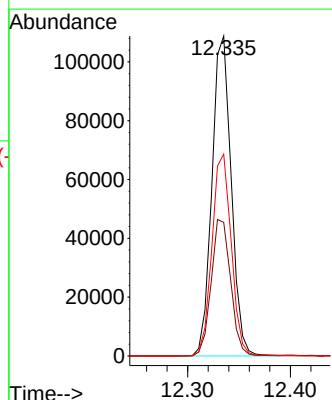
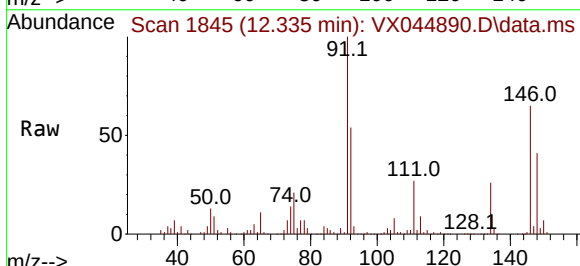
Tgt Ion:146 Resp: 141511

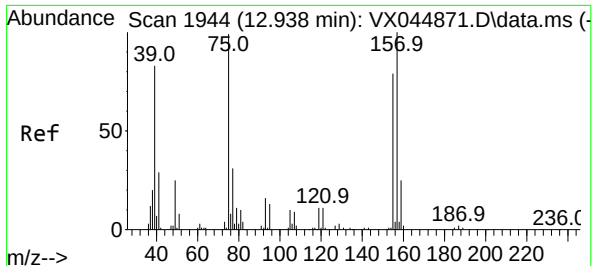
Ion Ratio Lower Upper

146 100

111 43.0 21.8 65.4

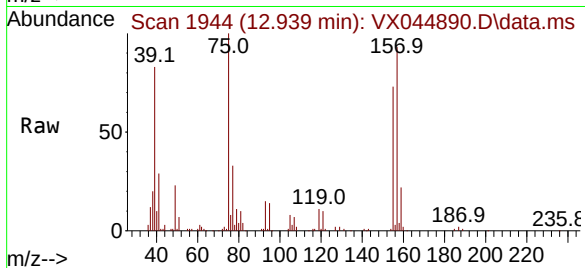
148 63.3 31.9 95.9





#92
1,2-Dibromo-3-Chloropropane
Concen: 54.263 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

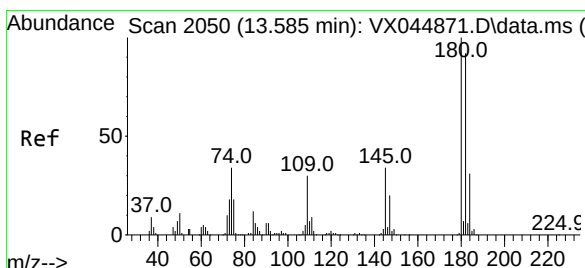
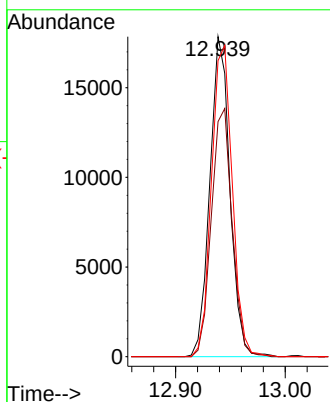
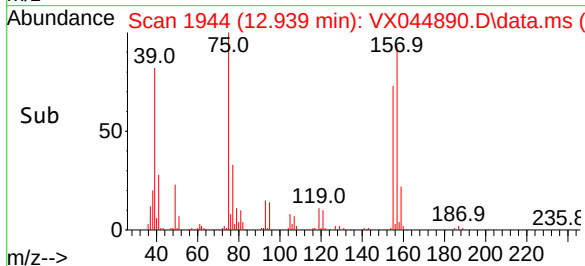
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MSD



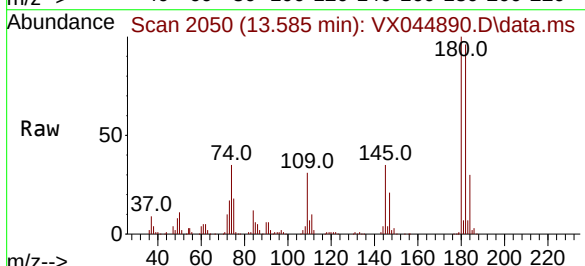
Tgt Ion: 75 Resp: 22744
Ion Ratio Lower Upper
75 100
155 80.2 40.5 121.4
157 101.0 51.4 154.3

Manual Integrations
APPROVED

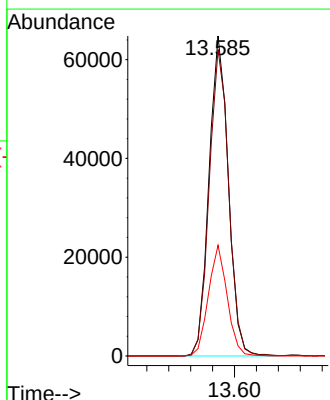
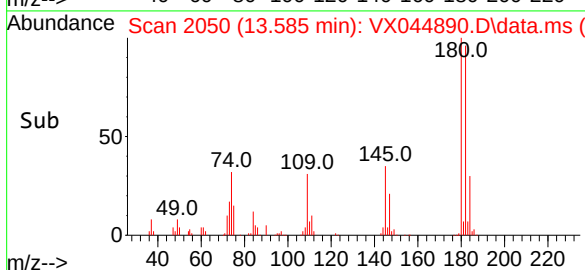
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

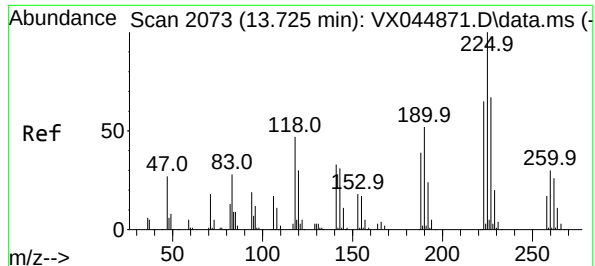


#93
1,2,4-Trichlorobenzene
Concen: 47.800 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09



Tgt Ion:180 Resp: 79208
Ion Ratio Lower Upper
180 100
182 97.1 47.6 142.8
145 33.6 16.4 49.1





#94

Hexachlorobutadiene

Concen: 43.212 ug/l

RT: 13.719 min Scan# 2073

Delta R.T. -0.006 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-192-GW-360-362MSD

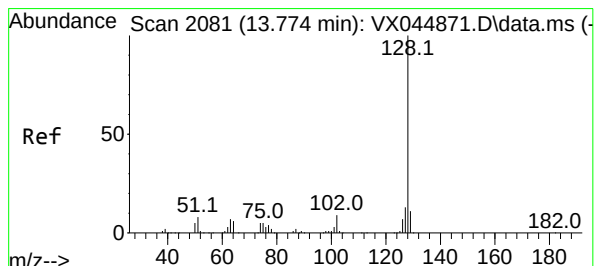
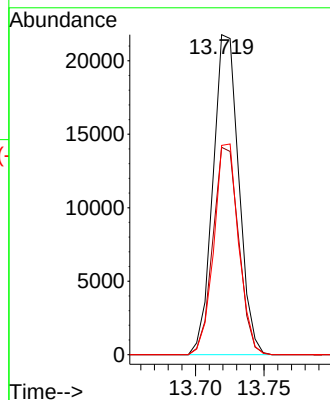
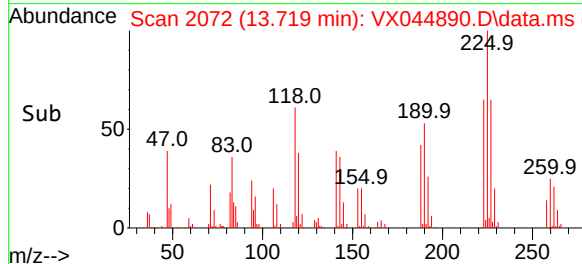
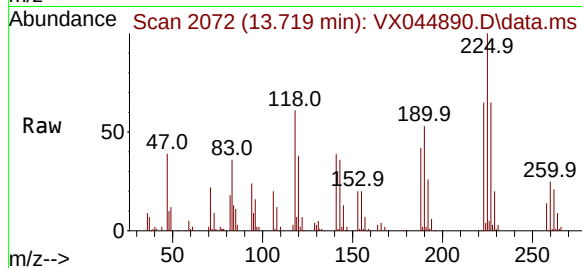
Tgt Ion:	225	Resp:	28420
Ion Ratio	Lower	Upper	
225	100		
223	64.6	31.4	94.2
227	63.4	32.3	96.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#95

Naphthalene

Concen: 52.588 ug/l

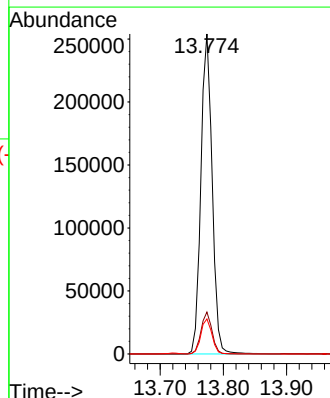
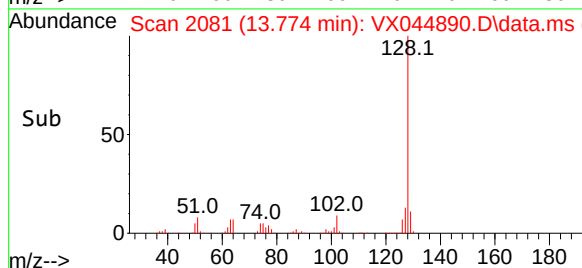
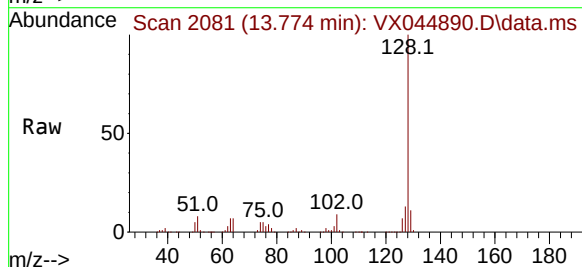
RT: 13.774 min Scan# 2081

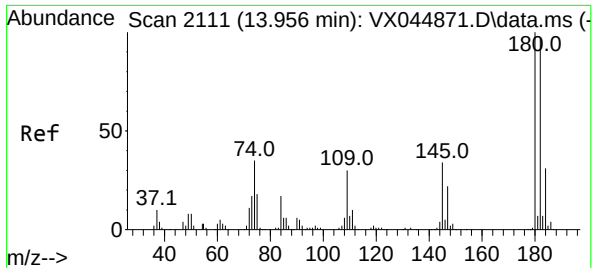
Delta R.T. 0.000 min

Lab File: VX044890.D

Acq: 10 Feb 2025 19:09

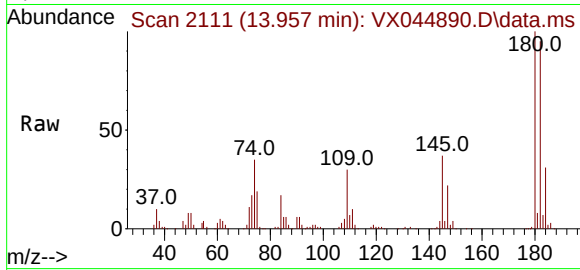
Tgt Ion:	128	Resp:	315005
Ion Ratio	Lower	Upper	
128	100		
127	12.7	10.1	15.1
129	10.8	8.9	13.3





#96
1,2,3-Trichlorobenzene
Concen: 50.706 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044890.D
Acq: 10 Feb 2025 19:09

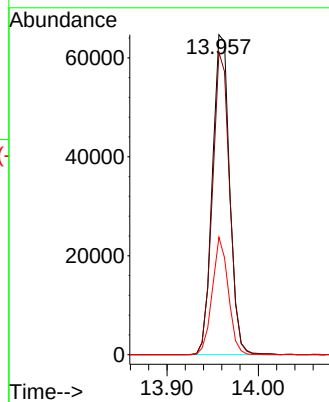
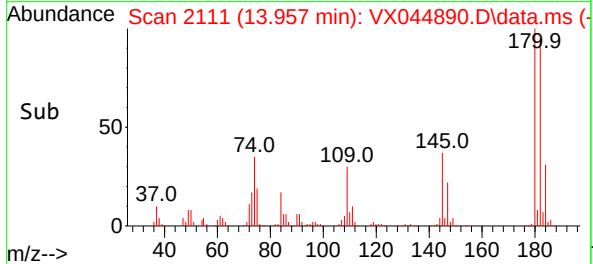
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-360-362MSD



Tgt Ion:180 Resp: 84660
Ion Ratio Lower Upper
180 100
182 93.8 47.9 143.6
145 34.0 17.1 51.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



Manual Integration Report

Sequence:	VX021025	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX044868.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:40:53 AM	MMDadoda	2/11/2025 10:09:14 AM	Peak Integrated by Software
VSTDICC001	VX044868.D	1,4-Dichlorobenzene	JOHN	2/11/2025 9:40:53 AM	MMDadoda	2/11/2025 10:09:14 AM	Peak Integrated by Software
VSTDICC001	VX044868.D	Dichlorodifluoromethane	JOHN	2/11/2025 9:40:53 AM	MMDadoda	2/11/2025 10:09:14 AM	Peak Integrated by Software
VSTDICC001	VX044868.D	Ethyl Acetate	JOHN	2/11/2025 9:40:53 AM	MMDadoda	2/11/2025 10:09:14 AM	Peak Integrated by Software
VSTDICC001	VX044868.D	Methacrylonitrile	JOHN	2/11/2025 9:40:53 AM	MMDadoda	2/11/2025 10:09:14 AM	Peak Integrated by Software
VSTDICC005	VX044869.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:40:57 AM	MMDadoda	2/11/2025 10:09:18 AM	Peak Integrated by Software
VSTDICC005	VX044869.D	Chloroethane	JOHN	2/11/2025 9:40:57 AM	MMDadoda	2/11/2025 10:09:18 AM	Peak Integrated by Software
VSTDICC020	VX044870.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:41:03 AM	MMDadoda	2/11/2025 10:09:33 AM	Peak Integrated by Software
VSTDICCC050	VX044871.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:41:07 AM	MMDadoda	2/11/2025 10:09:36 AM	Peak Integrated by Software
VSTDICC100	VX044872.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:41:11 AM	MMDadoda	2/11/2025 10:09:40 AM	Peak Integrated by Software
VSTDICC150	VX044873.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:41:16 AM	MMDadoda	2/11/2025 10:09:49 AM	Peak Integrated by Software
VSTDICV050	VX044875.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:41:20 AM	MMDadoda	2/11/2025 10:09:53 AM	Peak Integrated by Software
VX0210WBS01	VX044878.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:41:24 AM	MMDadoda	2/11/2025 10:09:57 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VX021025	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1250-07MS	VX044889.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:41:37 AM	MMDadoda	2/11/2025 10:10:05 AM	Peak Integrated by Software
Q1250-08MSD	VX044890.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:41:42 AM	MMDadoda	2/11/2025 10:10:09 AM	Peak Integrated by Software
VSTDCCC050	VX044891.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:41:46 AM	MMDadoda	2/11/2025 10:10:13 AM	Peak Integrated by Software

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX021025

Review By	John Carlone	Review On	2/11/2025 9:43:42 AM
Supervise By	Mahesh Dadoda	Supervise On	2/11/2025 2:05:25 PM
SubDirectory	VX021025	HP Acquire Method	HP Processing Method 82X021025W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP132955		
Initial Calibration Stds	VP132960,VP132961,VP132962,VP132963,VP132964,VP132965		
CCC	VP132956		
Internal Standard/PEM			
ICV/I.BLK	VP132966		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX044867.D	10 Feb 2025 09:35	JC/MD	Ok
2	VSTDIC001	VX044868.D	10 Feb 2025 10:25	JC/MD	Ok,M
3	VSTDIC005	VX044869.D	10 Feb 2025 10:48	JC/MD	Ok,M
4	VSTDIC020	VX044870.D	10 Feb 2025 11:11	JC/MD	Ok,M
5	VSTDIC050	VX044871.D	10 Feb 2025 11:34	JC/MD	Ok,M
6	VSTDIC100	VX044872.D	10 Feb 2025 12:05	JC/MD	Ok,M
7	VSTDIC150	VX044873.D	10 Feb 2025 12:28	JC/MD	Ok,M
8	IBLK	VX044874.D	10 Feb 2025 12:51	JC/MD	Ok
9	VSTDICV050	VX044875.D	10 Feb 2025 13:15	JC/MD	Ok,M
10	VX0210MBL01	VX044876.D	10 Feb 2025 13:43	JC/MD	Ok
11	VX0210WBL01	VX044877.D	10 Feb 2025 14:06	JC/MD	Ok
12	VX0210WBS01	VX044878.D	10 Feb 2025 14:29	JC/MD	Ok,M
13	VX0210WBSD01	VX044879.D	10 Feb 2025 14:55	JC/MD	Ok,M
14	Q1250-02	VX044880.D	10 Feb 2025 15:18	JC/MD	Ok
15	Q1250-01	VX044881.D	10 Feb 2025 15:41	JC/MD	Ok
16	Q1250-03	VX044882.D	10 Feb 2025 16:04	JC/MD	Ok
17	Q1250-04	VX044883.D	10 Feb 2025 16:27	JC/MD	Ok
18	Q1250-05	VX044884.D	10 Feb 2025 16:51	JC/MD	Ok
19	Q1250-10	VX044885.D	10 Feb 2025 17:14	JC/MD	Ok
20	Q1250-11	VX044886.D	10 Feb 2025 17:37	JC/MD	Ok
21	Q1250-12	VX044887.D	10 Feb 2025 18:00	JC/MD	Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX021025

Review By	John Carlone	Review On	2/11/2025 9:43:42 AM
Supervise By	Maresh Dadoda	Supervise On	2/11/2025 2:05:25 PM
SubDirectory	VX021025	HP Acquire Method	HP Processing Method 82X021025W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP132955		
Initial Calibration Stds	VP132960,VP132961,VP132962,VP132963,VP132964,VP132965		
CCC	VP132956		
Internal Standard/PEM			
ICV/I.BLK	VP132966		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q1250-06	VX044888.D	10 Feb 2025 18:23	JC/MD	Ok
23	Q1250-07MS	VX044889.D	10 Feb 2025 18:46	JC/MD	Ok,M
24	Q1250-08MSD	VX044890.D	10 Feb 2025 19:09	JC/MD	Ok,M
25	VSTDCCC050	VX044891.D	10 Feb 2025 19:32	JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX021025

Review By	John Carlone	Review On	2/11/2025 9:43:42 AM
Supervise By	Maresh Dadoda	Supervise On	2/11/2025 2:05:25 PM
SubDirectory	VX021025	HP Acquire Method	HP Processing Method 82X021025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132955
Initial Calibration Stds	VP132960,VP132961,VP132962,VP132963,VP132964,VP132965
CCC	VP132956
Internal Standard/PEM	
ICV/I.BLK	VP132966
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX044867.D	10 Feb 2025 09:35		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX044868.D	10 Feb 2025 10:25		JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX044869.D	10 Feb 2025 10:48		JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX044870.D	10 Feb 2025 11:11		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX044871.D	10 Feb 2025 11:34		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX044872.D	10 Feb 2025 12:05		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX044873.D	10 Feb 2025 12:28		JC/MD	Ok,M
8	IBLK	IBLK	VX044874.D	10 Feb 2025 12:51		JC/MD	Ok
9	VSTDICV050	ICVVX021025	VX044875.D	10 Feb 2025 13:15		JC/MD	Ok,M
10	VX0210MBL01	VX0210MBL01	VX044876.D	10 Feb 2025 13:43		JC/MD	Ok
11	VX0210WBL01	VX0210WBL01	VX044877.D	10 Feb 2025 14:06		JC/MD	Ok
12	VX0210WBS01	VX0210WBS01	VX044878.D	10 Feb 2025 14:29		JC/MD	Ok,M
13	VX0210WBSD01	VX0210WBSD01	VX044879.D	10 Feb 2025 14:55		JC/MD	Ok,M
14	Q1250-02	BP-VPB-192-GW-420-4	VX044880.D	10 Feb 2025 15:18	vial B pH<2	JC/MD	Ok
15	Q1250-01	BP-VPB-192-TB-20250	VX044881.D	10 Feb 2025 15:41	vial B pH<2 TB	JC/MD	Ok
16	Q1250-03	BP-VPB-192-GW-300-3	VX044882.D	10 Feb 2025 16:04	vial B pH<2	JC/MD	Ok
17	Q1250-04	BP-VPB-192-GW-320-3	VX044883.D	10 Feb 2025 16:27	vial B pH<2	JC/MD	Ok
18	Q1250-05	BP-VPB-192-GW-340-3	VX044884.D	10 Feb 2025 16:51	vial B pH<2	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX021025

Review By	John Carlone	Review On	2/11/2025 9:43:42 AM
Supervise By	Maresh Dadoda	Supervise On	2/11/2025 2:05:25 PM
SubDirectory	VX021025	HP Acquire Method	HP Processing Method 82X021025W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP132955		
Initial Calibration Stds	VP132960,VP132961,VP132962,VP132963,VP132964,VP132965		
CCC	VP132956		
Internal Standard/PEM			
ICV/I.BLK	VP132966		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q1250-10	BP-VPB-192-GW-380-3	VX044885.D	10 Feb 2025 17:14	vial B pH<2	JC/MD	Ok
20	Q1250-11	BP-VPB-192-GW-400-4	VX044886.D	10 Feb 2025 17:37	vial B pH<2	JC/MD	Ok
21	Q1250-12	BP-VPB-192-GW-440-4	VX044887.D	10 Feb 2025 18:00	vial B pH<2	JC/MD	Ok
22	Q1250-06	BP-VPB-192-GW-360-3	VX044888.D	10 Feb 2025 18:23	vial B pH<2	JC/MD	Ok
23	Q1250-07MS	BP-VPB-192-GW-360-3	VX044889.D	10 Feb 2025 18:46	vial B pH<2	JC/MD	Ok,M
24	Q1250-08MSD	BP-VPB-192-GW-360-3	VX044890.D	10 Feb 2025 19:09	vial B pH<2	JC/MD	Ok,M
25	VSTDCCC050	VSTDCCC050EC	VX044891.D	10 Feb 2025 19:32		JC/MD	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q1250

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: VX021025,

Standard ID :

VP130430,VP130434,VP131746,VP131767,VP132035,VP132037,VP132096,VP132097,VP132101,VP132543,VP132613,VP132615,VP132678,VP132955,VP132956,VP132960,VP132961,VP132962,VP132963,VP132964,VP132965,VP132966,

Chemical ID :

V12967,V13391,V13446,V13449,V13457,V13460,V13465,V13466,V13582,V13707,V13809,V13919,V14126,V14145,V14154,V14175,V14176,V14179,V14289,V14425,V14433,V14439,V14521,V14522,V14614,V14624,V14630,V14631,V14632,V14633,V14722,V14723,V14724,V14754,V14756,V14801,V14814,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>
617	8260 Surrogate, 400PPM	VP130430	09/20/2024	02/28/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								09/26/2024

FROM 0.40000ml of V13707 + 24.60000ml of V14145 = 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>
1738	8260 surrogate 20 ppm	VP130434	09/20/2024	02/28/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								10/02/2024

FROM 0.02000ml of V13707 + 24.99000ml of V14145 = 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>
247	8260 Internal Standard, 250PPM	VP131746	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								11/23/2024

FROM 0.50000ml of V14289 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
218	BFB, 25PPM	VP131767	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								11/27/2024

FROM 0.50000ml of V13391 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1810	8260 Working Std(2-CVE)-800ppm	VP132035	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024
<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>
1812	8260 Working Std(2-CVE)-100ppm	VP132037	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024
<u>FROM</u>	0.25000ml of V14633 + 24.75000ml of V14614 = 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>
719	8260 Working STD (BCM)-First source, 400PPM	VP132096	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 1.00000ml of V13465 + 1.00000ml of V13466 + 1.50000ml of V13457 + 1.50000ml of V13460 + 20.00000ml of V14614 = Final
Quantity: 25.000 ml

<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>
253	8260 Working STD (BCM)-First source, 20PPM	VP132097	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 0.50000ml of V13466 + 49.50000ml of V14614 = Final Quantity: 50.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1817	8260 Working Std(2-CVE)-SS, 800ppm	VP132101	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/19/2024

FROM 0.80000ml of V13582 + 9.20000ml of V14614 = Final Quantity: 10.000 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>
259	8260 Calibration Working STD Mix-Second source, 160PPM	VP132543	01/14/2025	02/28/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								01/17/2025

FROM 0.16000ml of V13449 + 0.80000ml of V13809 + 0.80000ml of V14126 + 0.80000ml of V14179 + 0.80000ml of V14425 + 0.80000ml of V14801 + 1.60000ml of V13919 + 4.24000ml of V14624 = Final Quantity: 10.000 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	VP132613	01/20/2025	02/28/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/29/2025
<u>FROM</u>	0.40000ml of V13446 + 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 V14722 + 1.00000ml of V14754 + 1.00000ml of V14756 + 1.00000ml of V14801 + 1.00000ml of V14814 + 1.50000ml of V14723 + 1.50000ml of V14724 + 10.60000ml of V14624 = Final Quantity: 25.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
245	8260 Calibration Working STD Mix-First source, 20PPM	VP132615	01/20/2025	02/28/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/29/2025
<u>FROM</u> 17.50000ml of V14624 + 2.50000ml of VP132613 = Final Quantity: 20.000 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>
262	8260 Working STD (BCM)-Second source, 100PPM	VP132678	01/24/2025	07/13/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								01/29/2025

FROM 1.00000ml of V12967 + 9.00000ml of V14624 = Final Quantity: 10.000 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	VP132955	02/10/2025	02/11/2025	John Carlone	None	None	Maresh Dadoda
								02/12/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 ml

[illegible]

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
334	1 PPB ICC, 8260-Water	VP132960	02/10/2025	02/11/2025	John Carlone	None	None	Mahesh Dadoda 02/12/2025
<u>FROM</u>	39.98200ml of W3112 + 0.00200ml of VP130434 + 0.00200ml of VP132037 + 0.00200ml of VP132097 + 0.00200ml of VP132615 + 0.00800ml of VP131746 = 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>
335	5 PPB ICC, 8260-Water	VP132961	02/10/2025	02/11/2025	John Carlone	None	None	Mahesh Dadoda 02/12/2025
FROM 39.94200ml of W3112 + 0.00800ml of VP131746 + 0.01000ml of VP130434 + 0.01000ml of VP132037 + 0.01000ml of VP132097 + 0.01000ml of VP132615 = 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>
337	20 PPB ICC, 8260-Water	VP132962	02/10/2025	02/11/2025	John Carlone	None	None	Mahesh Dadoda 02/12/2025
FROM 39.97000ml of W3112 + 0.00200ml of VP130430 + 0.00200ml of VP132096 + 0.00500ml of VP132035 + 0.00500ml of VP132613 + 0.00800ml of VP131746 = Final Quantity: 40.000 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>
380	50 PPB ICC, 8260-Water	VP132963	02/10/2025	02/11/2025	John Carlone	None	None	Mahesh Dadoda 02/12/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP132613 = 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>
381	100 PPB ICC, 8260-Water	VP132964	02/10/2025	02/11/2025	John Carlone	None	None	Mahesh Dadoda 02/12/2025

FROM 39.89700ml of W3112 + 0.00800ml of VP131746 + 0.01000ml of VP130430 + 0.01000ml of VP132096 + 0.02500ml of VP132035 + 0.02500ml of VP132613 = 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>
382	150 PPB ICC, 8260-Water	VP132965	02/10/2025	02/11/2025	John Carlone	None	None	Mahesh Dadoda 02/12/2025

FROM	39.84950ml of W3112 + 0.00800ml of VP131746 + 0.01500ml of VP130430 + 0.01500ml of VP132096 + 0.03750ml of VP132035 + 0.03750ml of VP132613 = 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>
385	50 PPB ICV, 8260-Water	VP132966	02/10/2025	02/11/2025	John Carlone	None	None	Mahesh Dadoda 02/12/2025

FROM	39.92950ml of W3112 + 0.00500ml of VP130430 + 0.00800ml of VP131746 + 0.01250ml of VP132101 + 0.01250ml of VP132543 + 0.02000ml of VP132678 = 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 #
Absolute Standards, Inc.	70046 / Bromochloromethane Std. sol/methanol 1000ppm	070122	07/24/2025	01/24/2025 / SAM	07/06/2022 / SAM	V12967

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	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0181905	02/28/2025	01/10/2025 / SAM	01/23/2023 / SAM	V13446

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	A0191703	06/02/2025	12/02/2024 / SAM	01/23/2023 / SAM	V13449

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

CHEMICAL RECEIPT LOG BOOK

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 #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	11/17/2025	12/12/2024 / SAM	01/30/2023 / SAM	V13582

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	06/10/2025	06/10/2024 / SAM	04/12/2023 / SAM	V13707

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	A0194279	10/31/2029	01/07/2025 / SAM	05/31/2023 / SAM	V13809

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	A0193887	07/10/2025	01/10/2025 / SAM	07/24/2023 / SAM	V13919

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)	011624	07/10/2025	01/10/2025 / SAM	01/17/2024 / SAM	V14126

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	02/28/2025	08/29/2024 / SAM	02/06/2024 / SAM	V14145

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 #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021524	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14179

CHEMICAL RECEIPT LOG BOOK

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	A0205013	06/30/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14425

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

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

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	06/10/2025	12/10/2024 / SAM	11/26/2024 / SAM	V14614

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	07/13/2025	01/13/2025 / SAM	11/26/2024 / SAM	V14624

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14630

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14631

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14632

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14633

CHEMICAL RECEIPT LOG BOOK

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	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	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14756

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	A0220563	06/30/2026	01/10/2025 / SAM	01/08/2025 / SAM	V14801

LOTS

CHEMICAL RECEIPT LOG BOOK

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 #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

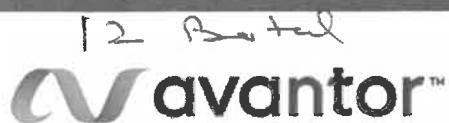
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



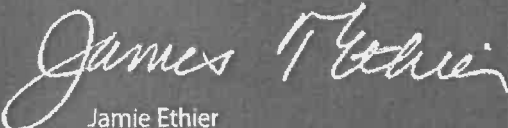
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality



CERTIFIED WEIGHT REPORT

Part Number: 95319
Lot Number: 011624
Description: Revised Additions Mix
11 components
011627
Refrigerate (4 °C)
Varied
6UTB
5E-05 Balance Uncertainty
0.021 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 100.0

Formulated By: Prashant Chauhan	Reviewed By: Pedro L. Rentas
DATE: 011624	DATE: 011624

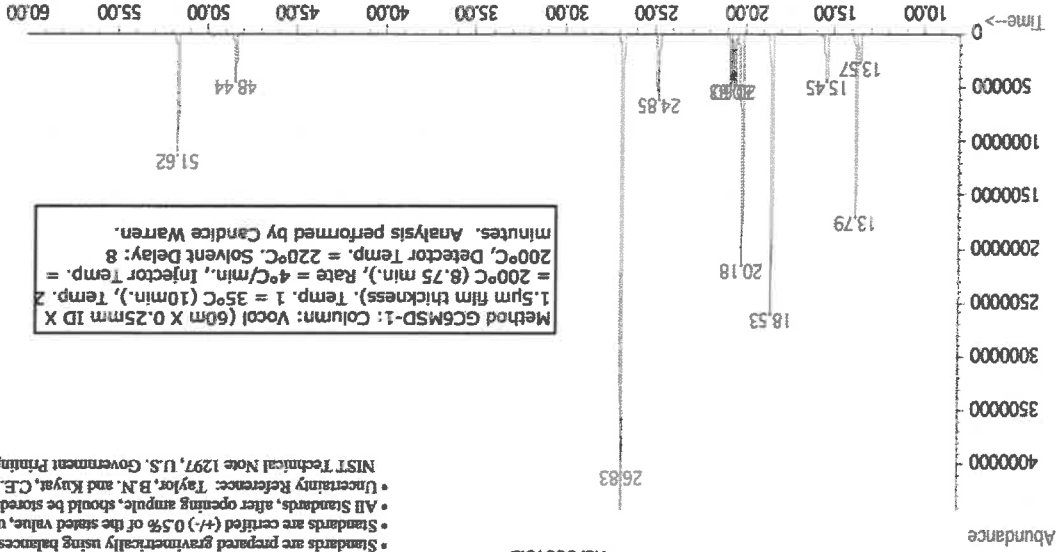
SDS Information

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)	CAS#	OSHA PEL (TWA)	LD50

1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01035	1.01080	10004.4	40.6	107-13-1	N/A	or-rat 78 mg/kg
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20007	0.20035	2002.8	8.1	109-69-3	N/A	or-rat 2670mg/kg
3. Cyclohexane	1023	28930	2000	99	0.2	0.20207	0.20222	2001.5	8.2	110-82-7	N/A	or-rat 12705mg/kg
4. Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20207	0.20227	2002.0	8.2	108-20-3	500 ppm (2100mg/m3/8h)	or-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04142	4.04213	40007.0	162.5	123-91-1	25 ppm (90mg/m3/8h)(skdn)	or-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20207	0.20221	2001.4	8.2	67-72-1	1 ppm (10mg/m3/8h)(skdn)	or-gp 4870mg/kg
7. Methylcyclohexane	1627	SHBG0199V	2000	99	0.2	0.20207	0.20230	2002.3	8.2	108-87-2	N/A	or-mus 2250mg/kg
8. Methyl tert-butyl ether (MTBE)	209	21880	2000	99	0.2	0.20207	0.20227	2002.0	8.2	1634-04-4	N/A	or-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02071	2.02150	20007.8	81.3	107-12-0	N/A	or-rat 39mg/kg
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00125	1.00200	10007.5	40.3	109-99-9	20 ppm (590mg/m3/8h)	or-rat 1650mg/kg
11. 1,2,3,4-Tetramethylbenzene	481	AP01	2000	93	0.2	0.21511	0.21522	2001.0	8.7	488-23-3	N/A	or-rat 6408mg/kg

• 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).

TC: 95319.D



Name	(min.)	MSD RT
Methyl tert-butyl ether (MTBE)	13.56	
Acrylonitrile	13.79	
Di-isopropyl ether	15.44	
Propionitrile	18.53	
Tetrahydrofuran	20.17	
Cyclohexane	20.58	
1-Chlorobutane	20.83	
Methylcyclohexane	24.84	
1,4-Dioxane	26.84	
Hexachloroethane	48.44	
1,2,3,4-Tetramethylbenzene	51.62	



CERTIFIED WEIGHT REPORT

Part Number: **95317**
Lot Number: **021524**
Description: **Universal VOA Megamix**
69 components
Expiration Date: 021527
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: BUTB

Solvent(s): **Methanol**
Lot#: **EG359-USQ12**

		021524
Formulated By:	Mario Luis	DATE
		021524
Reviewed By:	Pedro L. Rentes	DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

														SDS Information		
														(Solvent Safety Info. On Attached pg.)		
Compound	(RM#)	Lot	Dr.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	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)			
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20022	2001.5	8.1	75-05-8	40 ppm (70mg/m3/8h)	or-rat 2450mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102398	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20222	2001.5	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	0.20020	2001.3	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21080	2000.2	8.5	1478-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0466)	MKBP8041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20734	2000.3	8.4	110-57-5	N/A	N/A
6. Diethyl ether	(0153)	JK18CASA000K	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	061826PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20231	2002.4	8.2	97-83-2	N/A	or-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8716V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20118	2001.2	8.1	74-88-4	5 ppm (28mg/m3/8h) (skin)	or-rat 76mg/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 2450mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20209	2000.2	8.2	128-98-7	1 ppm (3mg/m3/8h) (skin)	or-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	96-33-3	10 ppm (35mg/m3/8h) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20030	2000.5	8.1	80-62-6	100 ppm (410mg/m3/8h)	or-rat 787mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	98-95-3	1 ppm (5mg/m3/8h) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20670	2001.0	8.3	79-46-9	10 ppm (35mg/m3/8h)	or-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20415	2000.2	8.3	78-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20210	2000.3	8.2	78-13-1	1000 ppm (7600mg/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 848mg/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	156-60-2	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 800mg/kg
22. 1,1-Dichloroethane	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-36-4	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 (12.8mg/m3/8h)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-06-3	N/A	or-rat 108mg/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	894-20-7	N/A	N/A
29. Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8h) (final)	or-rat 262mg/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	40018.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	or-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	108-93-4	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	107-06-2	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	78-87-5	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	ure-mus 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	830-20-6	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 (45mg/m3/8h) (skin)	or-rat 836mg/kg
43. Trichloroethane	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-mus 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 (60mg/m3/8h)	or-rat 149.8mg/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 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-96-1	N/A	or-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8h)	or-rat 2000mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-8	N/A	or-rat 4750mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8h)	or-rat 490mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 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	108-88-3	200 ppm	or-rat 5000mg/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	87-61-6	N/A	ipr-mus 1300mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	95-63-6	N/A	or-rat 5g/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	108-67-8	N/A	or-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8h)	or-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	or-rat 2240mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8h)	or-rat 2290mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-5	50 ppm (250mg/m3/8h)	or-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA</						

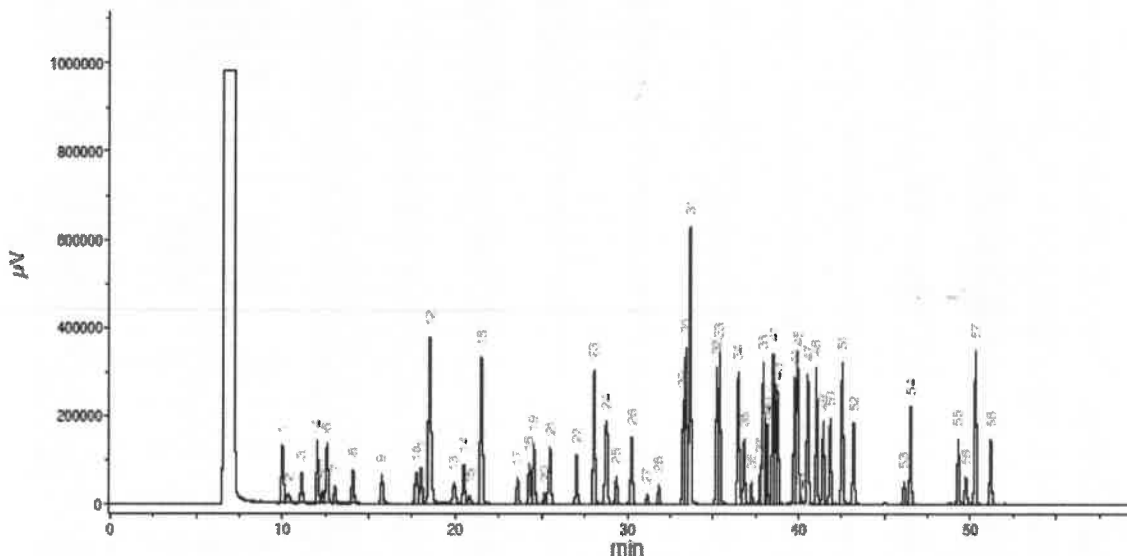


Run 17, "P95317 L021524 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 10:04:27 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocool 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-Dichloroethene	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-Dichloroethene	14.07
9	1,1-Dichloroethane	15.34
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	22.58
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,2-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	31.18
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.39
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	33.72
33	Styrene	35.39
34	Isopropylbenzene/Bromoform	36.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.32
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	43.10
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16



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**

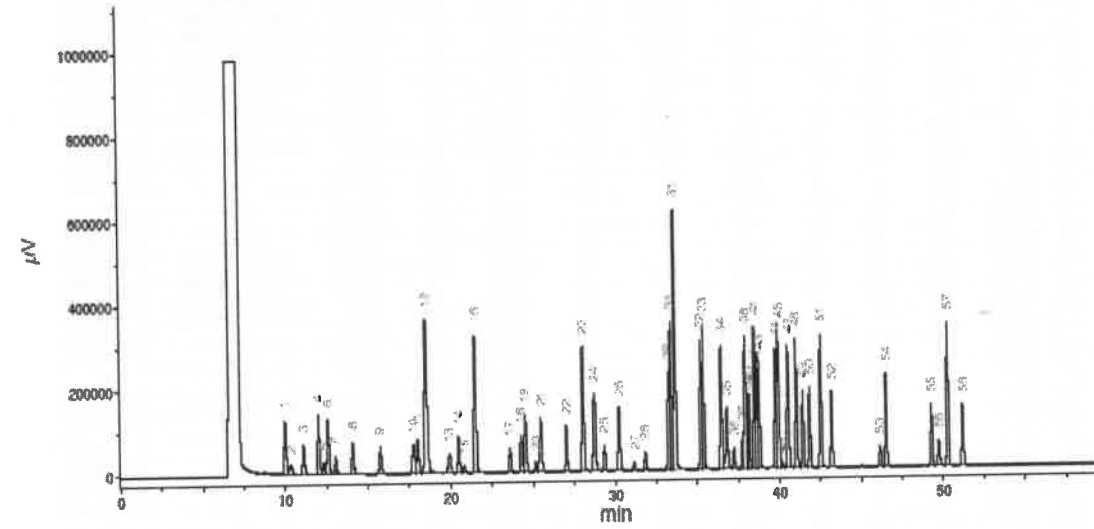
		021624
Formulated By:	Prashant Chauhan	DATE
		021624
Reviewed By:	Pedro L. Rentes	DATE

Compound	(RM#)	Lot	Di.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
	Part Number	Number	Factor	Vol. (mL)	Conc. (µg/mL)	Conc. (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	(+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102395	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg
3. Carbon disulfide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	6.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CA5000K	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06126PK	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	or-rat 14800mg/kg
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 70mg/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 240mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 1200mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8H) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Perfluorooctane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7800mg/m3/8H)	or-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 840mg/kg
19. cis-1,2-Dichloroethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.6	22.9	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 930mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-68-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-85-3	N/A	or-rat 105mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	N/A	or-rat 108mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	100 ppm	or-rat 725mg/kg
29. Tetrachloroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	1999.8	20.4	584-20-7	N/A	N/A
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
32. 1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-6	0.001 ppm	or-rat 170mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	106-93-4	20 ppm (8H)	or-rat 108mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2000.2	22.9	107-08-2	50 ppm (8H)	or-rat 870mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	78-57-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg
36. 1,1-Dichloropropane	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	un-rat 3600mg/kg
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-56-6	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-01-5	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	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 630mg/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	106-67-8	N/A	or-rat 5000mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	or-rat 2240mg/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	541-73-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	96-46-7	75 ppm (450mg/m3/8H)	or-rat 900mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.7	23.0			

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.24
11	cis-1,2-Dichloroethane	18.00
12	Methacrylonitrile/methyl acrylate/Chloroform	18.46
13	Isobutane/1,1,1-Trichloroethane	19.01
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethane	23.58
18	1,2-Dichloropropane	24.38
19	Methyl methacrylate	24.52
20	Bromochloromethane	25.13
21	Dibromomethane/2-Hitroprene	25.46
22	cis-1,3-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	35.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoforn	36.18
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.74
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection. Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC. DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



CERTIFIED 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**

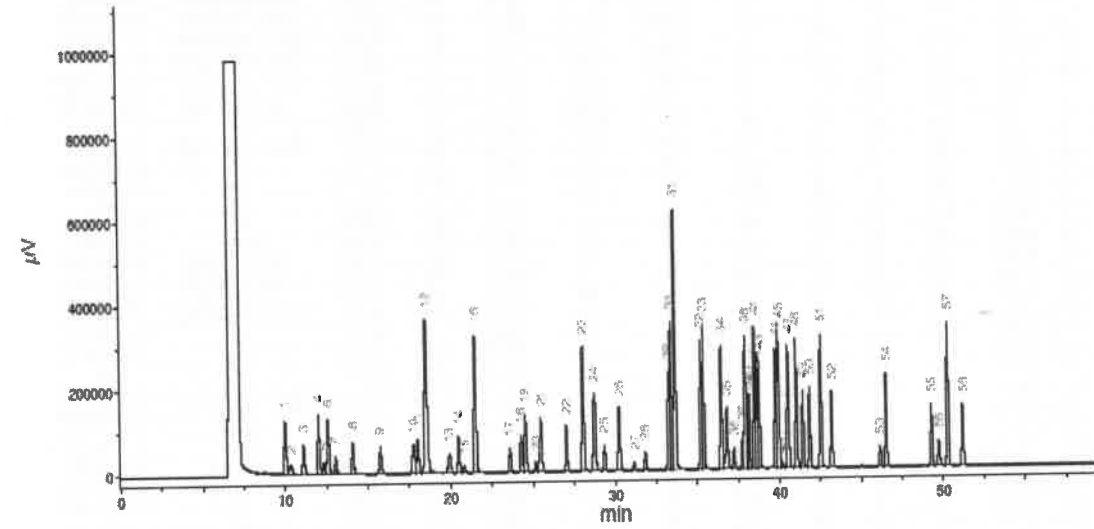
		021624
Formulated By:	Prashant Chauhan	DATE
		021624
Reviewed By:	Pedro L. Rentes	DATE

Compound	(RM#)	Lot	Di.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
	Part Number	Number	Factor	Vol. (mL)	Conc. (µg/mL)	Conc. (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	(+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102395	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg
3. Carbon disulfide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	6.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CA5000K	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06126PK	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	or-rat 14800mg/kg
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 70mg/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 240mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 1200mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8H) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 700mg/kg
14. 2-Nitropropane	(0461)	14002JK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Perfluorooctane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7800mg/m3/8H)	or-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 840mg/kg
19. cis-1,2-Dichloroethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.6	22.9	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 930mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-85-3	N/A	or-rat 105mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	N/A	or-rat 108mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	100 ppm	or-rat 725mg/kg
29. Tetrachloroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	1999.8	20.4	584-20-7	N/A	N/A
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
32. 1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-6	0.001 ppm	or-rat 170mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	106-93-4	20 ppm (8H)	or-rat 108mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2000.2	22.9	107-08-2	50 ppm (8H)	or-rat 870mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	78-57-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	un-rat 3600mg/kg
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.1	22.9	563-56-6	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-01-5	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	22.9	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H) (skin)	or-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	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	or-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	99-87-6	N/A	or-rat 4750mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
51. Styrene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-98-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	or-rat 1390mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	N/A	or-rat 5g/kg
55. 1,2,4,5-Tetrachlorobenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-67-8	N/A	or-rat 5000mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	or-rat 2240mg/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	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	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	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	541-73-1	N/A	N/A
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	19				

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.24
11	cis-1,2-Dichloroethane	18.00
12	Methacrylonitrile/methyl acrylate/Chloroform	18.46
13	Isobutane/1,1,1-Trichloroethane	19.01
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethane	23.58
18	1,2-Dichloropropane	24.38
19	Methyl methacrylate	24.52
20	Bromochloromethane	25.13
21	Dibromomethane/2-Hitropropane	25.46
22	cis-1,3-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	35.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoforn	36.18
35	cis-1,4-Dichloro-3-butene	36.48
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.74
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection. Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC. DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



Dec 09/17/24

CERTIFIED WEIGHT REPORT

Part Number:

91980

Lot Number:

091424

Description:

Acrolein

Solvent(s):

Water

Lot#

072324Q

Expiration Date:

101424

Recommended Storage:

Refrigerate (4 °C)

Nominal Concentration (µg/mL):

5000

NIST Test ID#:

6UTB

5E-05 Balance Uncertainty

0.001 Flask Uncertainty

10.0

Weight(s) shown below were combined and diluted to (mL):

Formulated By:	Justin Dippold	DATE	091424
Reviewed By:	Pedro L. Rentas	DATE	091424

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50

1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	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

50000

56

150000

40000

30000

100000

20000

50000

10000

Time-->

0

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

119

158

169

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM



Dec 09/17/24

CERTIFIED WEIGHT REPORT

Part Number:

91980

Lot Number:

091424

Description:

Acrolein

Solvent(s):

Water

Lot#

072324Q

Expiration Date:

101424

Recommended Storage:

Refrigerate (4 °C)

Nominal Concentration (µg/mL):

5000

NIST Test ID#:

6UTB

5E-05 Balance Uncertainty

0.001 Flask Uncertainty

10.0

Weight(s) shown below were combined and diluted to (mL):

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50

1. Acrolein	5	103755V10F	5000	97	0.5	0.05186	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC/MSD-1, Detector: Mass Selective Detector (Scan mode). Columns: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 0min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas, NOTE: Due to the instability of acrolein in solution, all solutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D

Abundance

27

250000

8.93

200000

C=CC=O

50000

56

150000

40000

30000

20000

10000

37

Time-->

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00

m/z-->

0

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

44 65 75 85 119 158 169

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
 * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
 * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
 * All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **111722**
Description: **2-Chloroethyl vinyl ether**

Solvent(s): **Lot#**
Methanol EB679-US

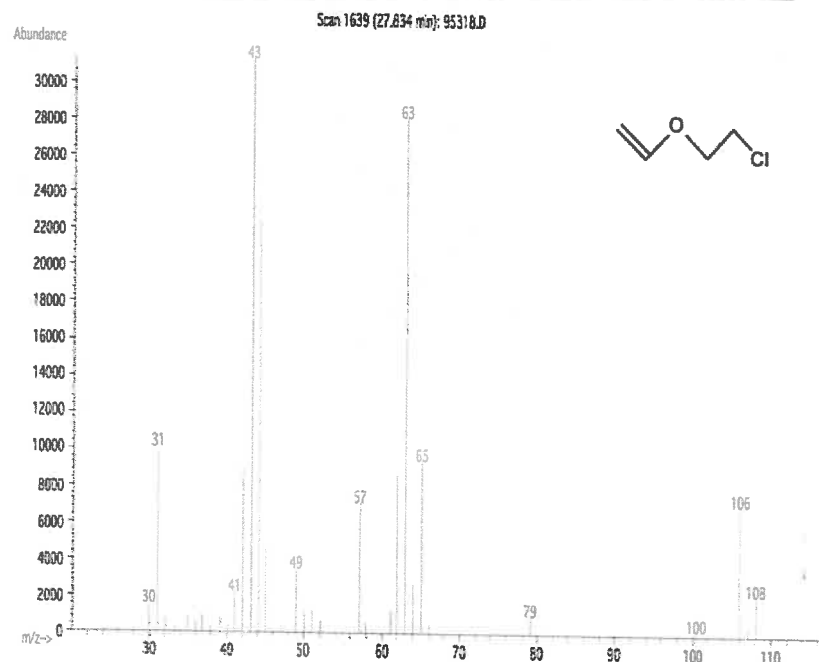
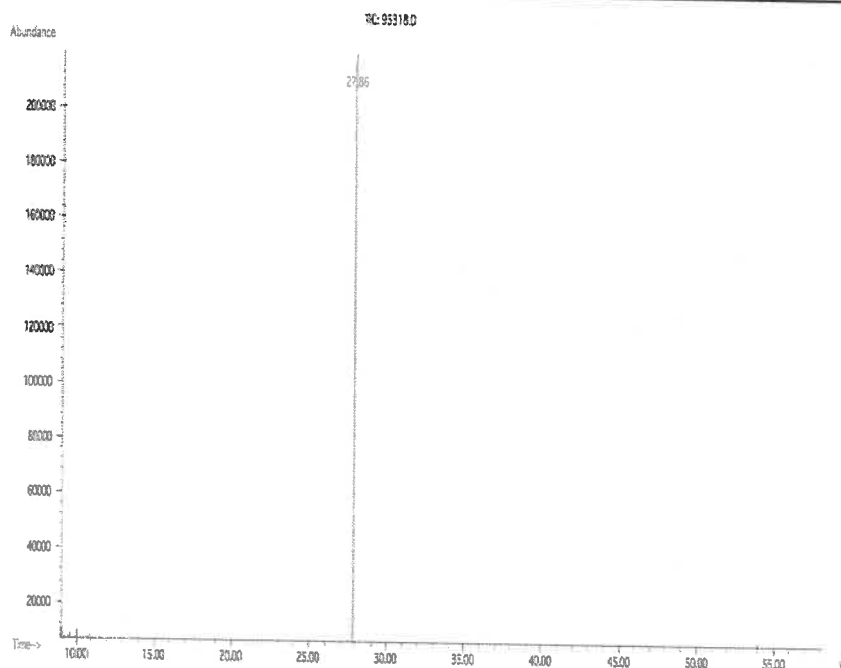
Expiration Date: **111725**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Eli Aliaga</i>		111722
Formulated By:	Eli Aliaga	DATE
<i>Pedro L. Rentas</i>		111722
Reviewed By:	Pedro L. Rentas	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.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50541	0.50551	10001.9	40.5	110-75-8	N/A	ori-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).



Dec 12/16/24
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

✓ 14630 to
✓ 14649

Weight(s) shown below were combined and diluted to (mL):

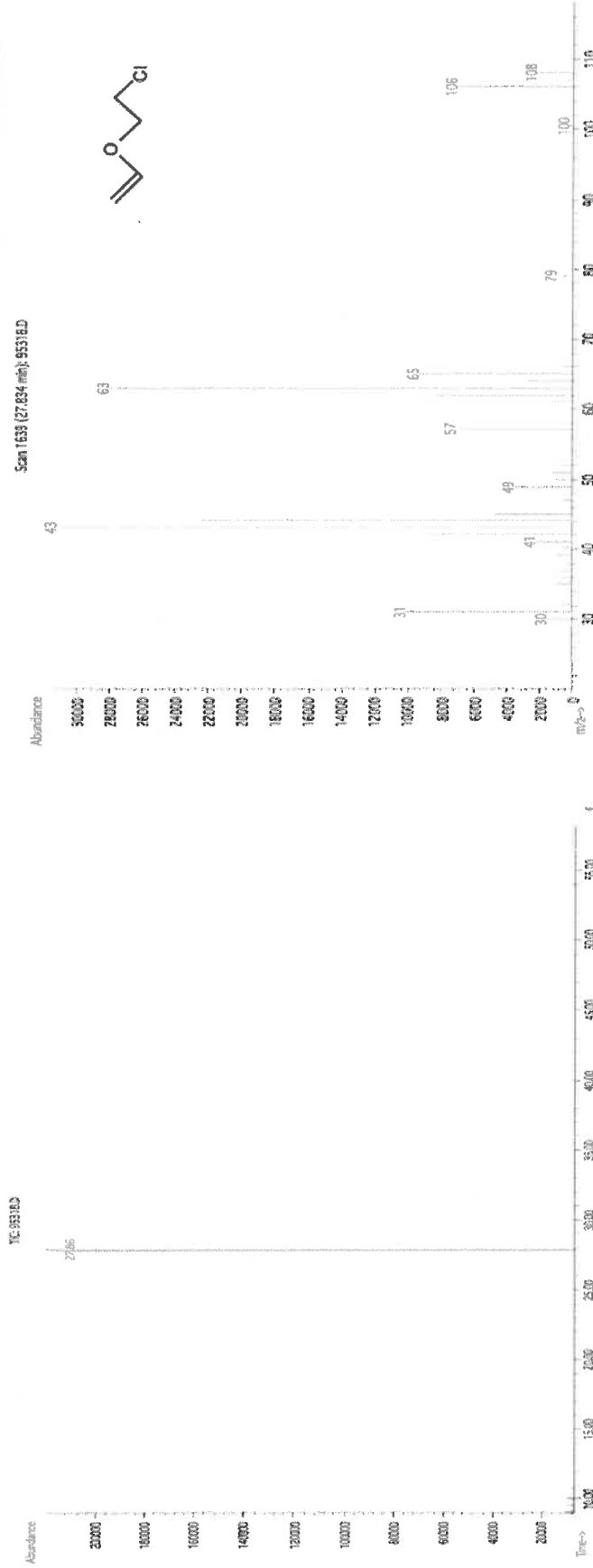
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Expanded Uncertainty (Solvent Safety Info. On Attached pg.)
Uncertainty (±) (µg/mL) CAS# OSHA PEL (TWA) LDSO

SDS Information

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)	CAS#	OSHA PEL (TWA)	LDSO
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):

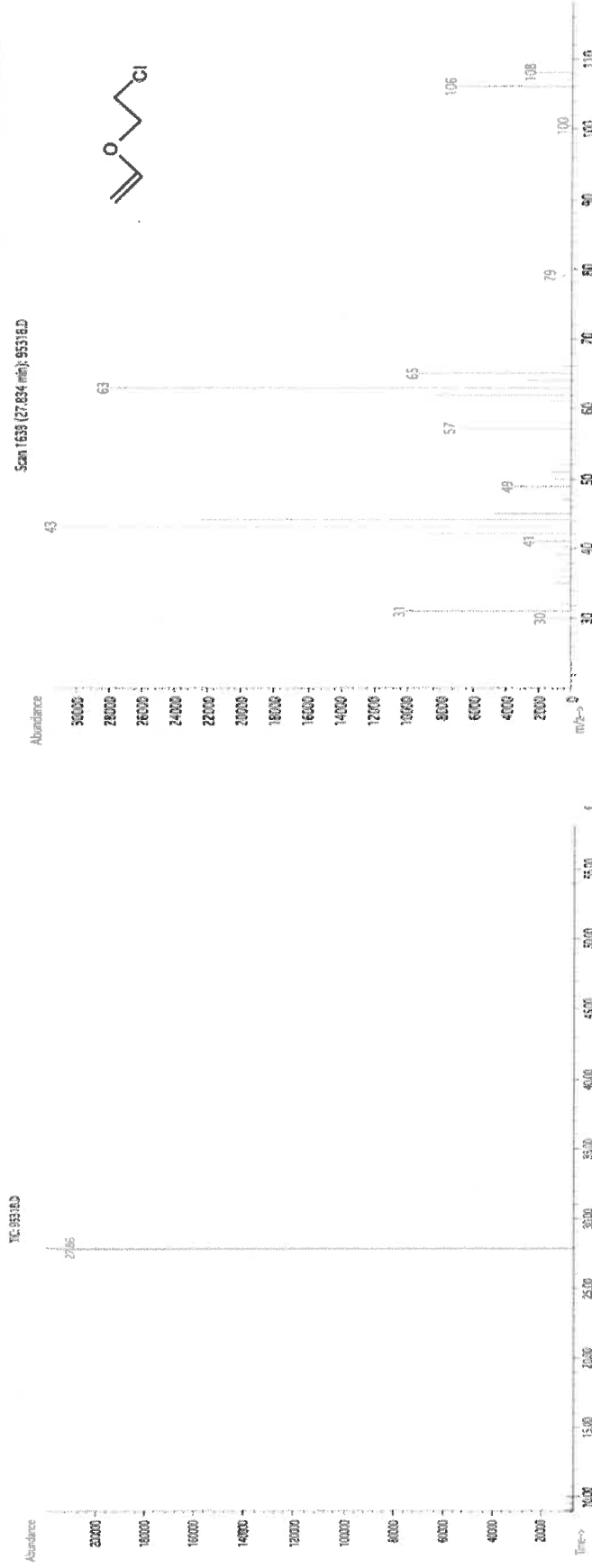
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

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.



* 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.



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

95318
120524
2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

120527
Refrigerate (4 °C)
10000
6UTB

Weight(s) shown below were combined and diluted to (mL):

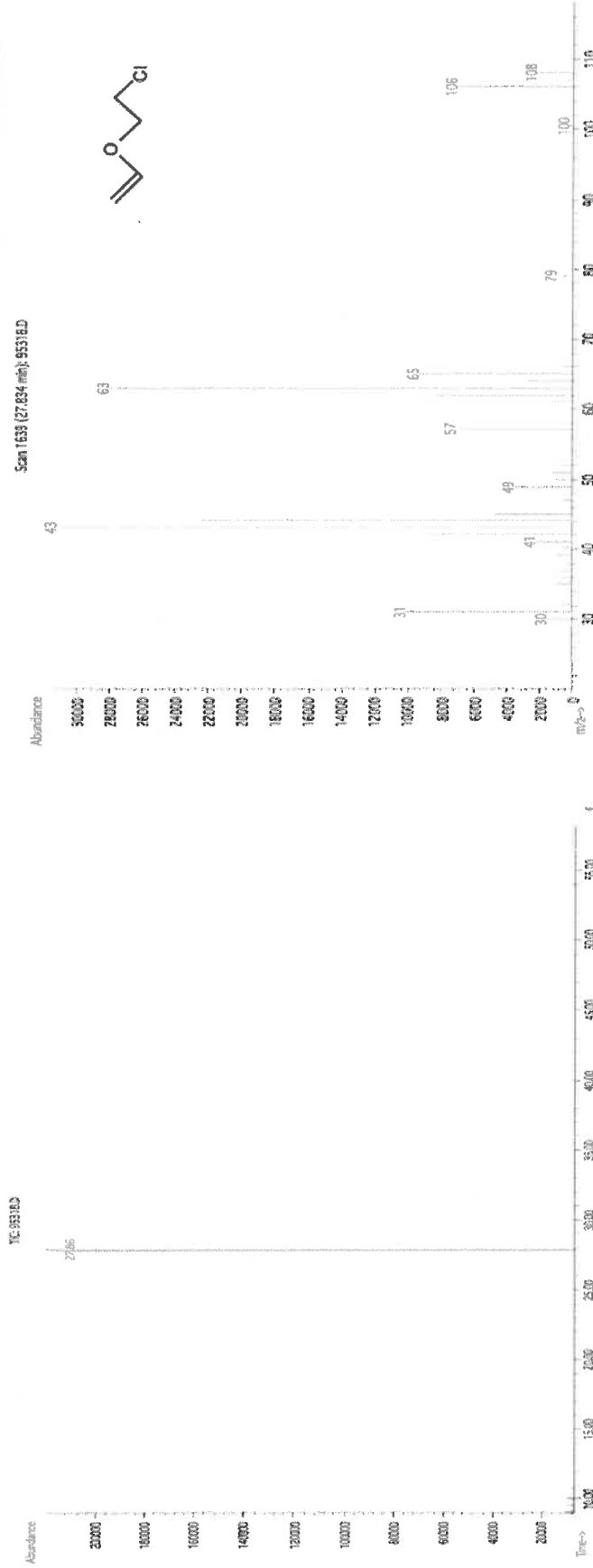
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By: Prashant Chauhan 120524 DATE
Reviewed By: Pedro L. Rentas 120524 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	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).

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rosotto Dr. Hamden CT. 06514	Emergency Telephone International Date Prepared/Revised	1-352-323-3500 January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302+332	If on skin, wash with soap and water	P305+351+338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#	% (optional)
Methanol	67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm		
Skin notation	TWA 200 ppm		
Potential for skin absorption, ingestion and inhalation.			
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.	Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.			

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Dec 12/16/24
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

✓ 14630 to
✓ 14649

Weight(s) shown below were combined and diluted to (mL):

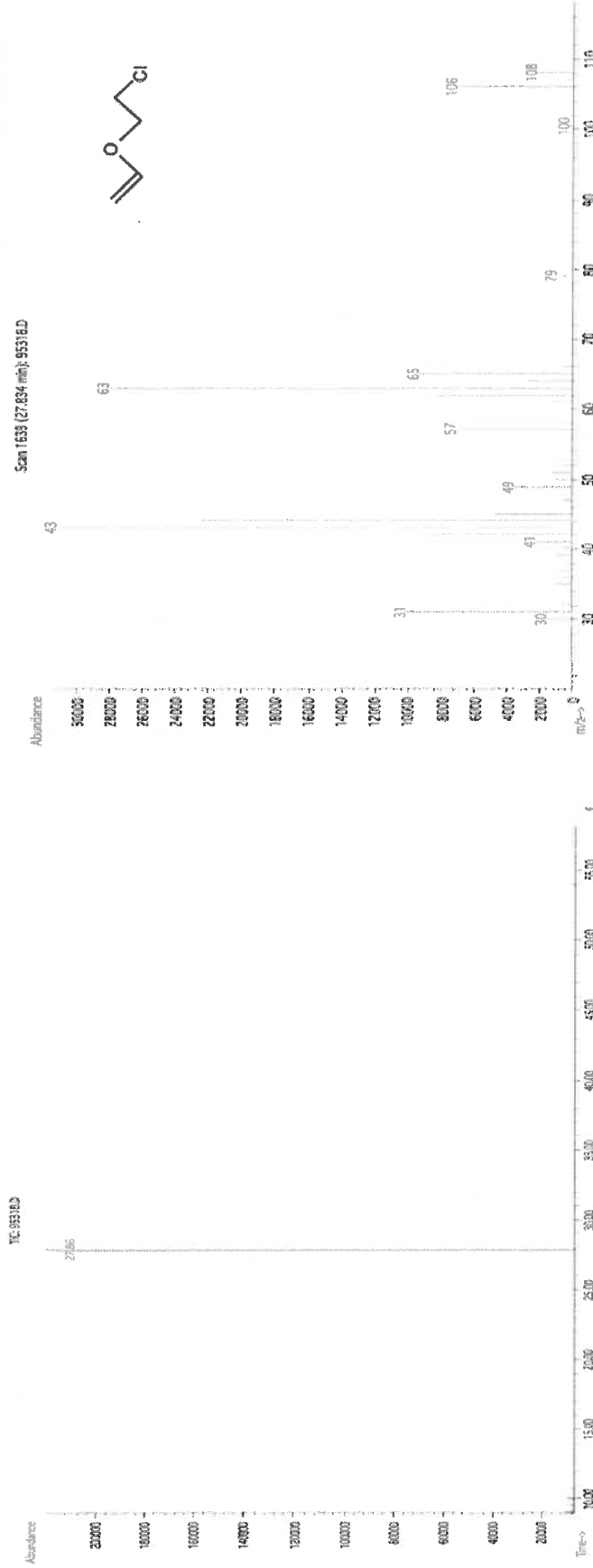
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Expanded Uncertainty (Solvent Safety Info. On Attached pg.)
Uncertainty (+/-) (µg/mL) CAS# OSHA PEL (TWA) LDSO

SDS Information

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	or-rat 250mg/kg
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	N/A

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.
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LC50 15,400 mg/l - 96 h
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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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



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.: A0181905
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 : February 28, 2025 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	tert-Butanol (TBA)	50,126.0 µg/mL	+/-	293.4988	µg/mL	Gravimetric
	CAS # 75-65-0		+/-	1,073.7654	µg/mL	Unstressed
	Purity 99%		+/-	1,104.9494	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

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:

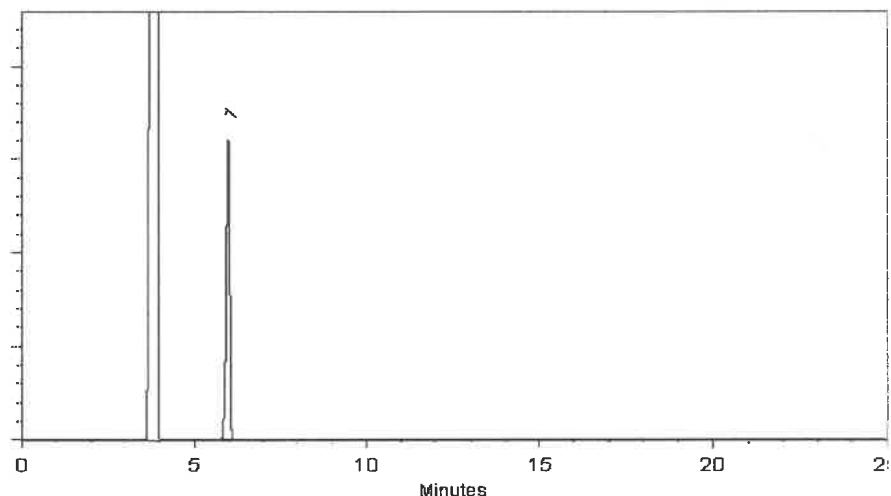
200°C

Det. Temp:

250°C

Det. Type:

FID



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.

John Friedline - Operations Technician I

Date Mixed: 16-Feb-2022

Balance: B442140311

Marlene Cowan - Operations Tech I

Date Passed: 21-Feb-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 combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules 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 ampules. 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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Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



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.: A0191703
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 : November 30, 2025 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	tert-Butanol (TBA) CAS # 75-65-0 Purity 99% (Lot 101619K21F-1)	50,122.0 µg/mL	+/- 293.4753 µg/mL Gravimetric +/- 1,073.6797 µg/mL Unstressed +/- 1,104.8612 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

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:

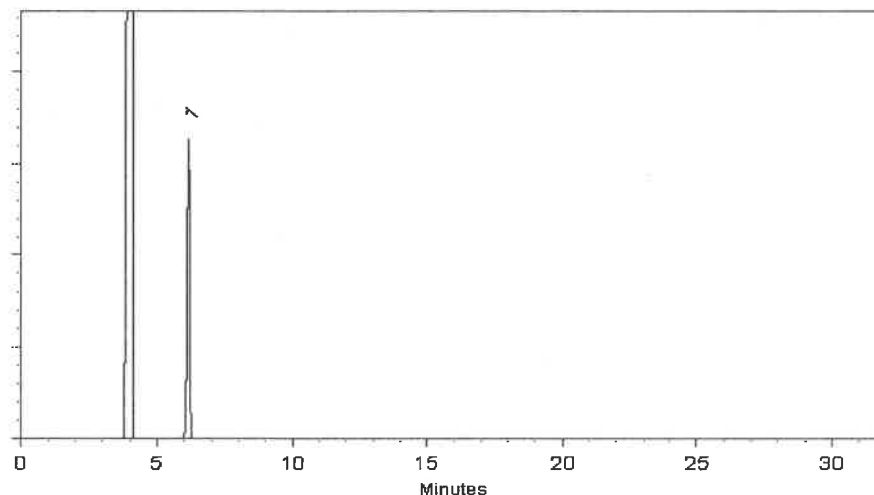
200°C

Det. Temp:

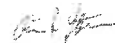
250°C

Det. Type:

FID



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: 15-Nov-2022

Balance: 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 17-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 combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules 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 ampules. 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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Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

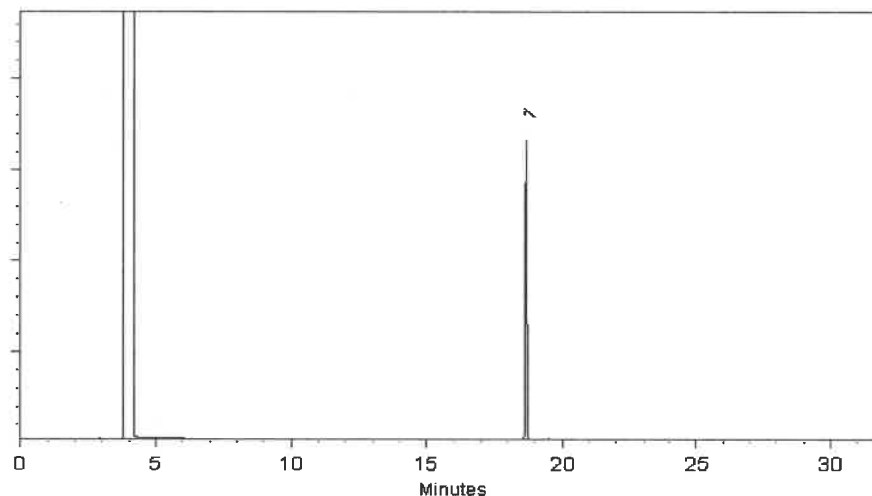
FID

Split Vent:

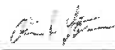
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022

Balance Serial # B251644995


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

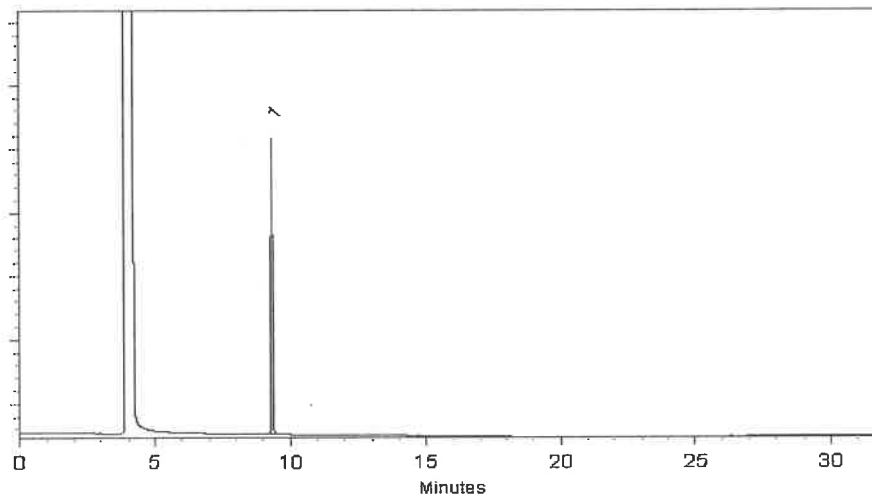
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

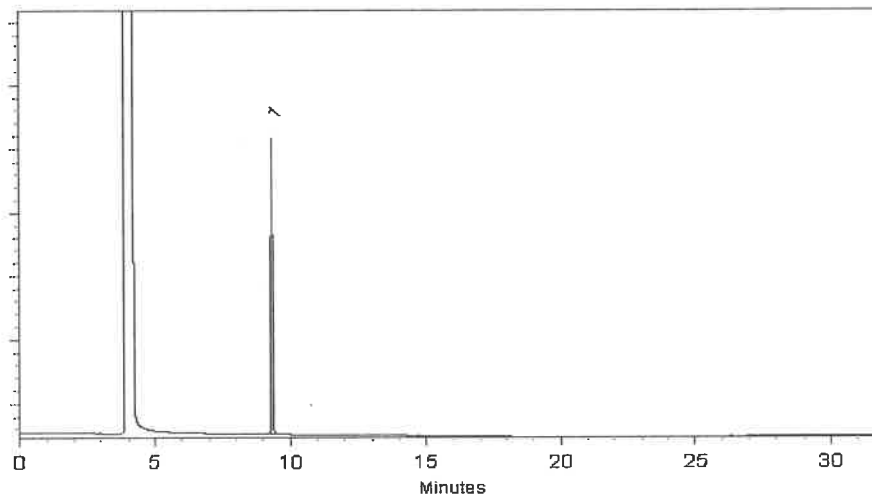
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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:

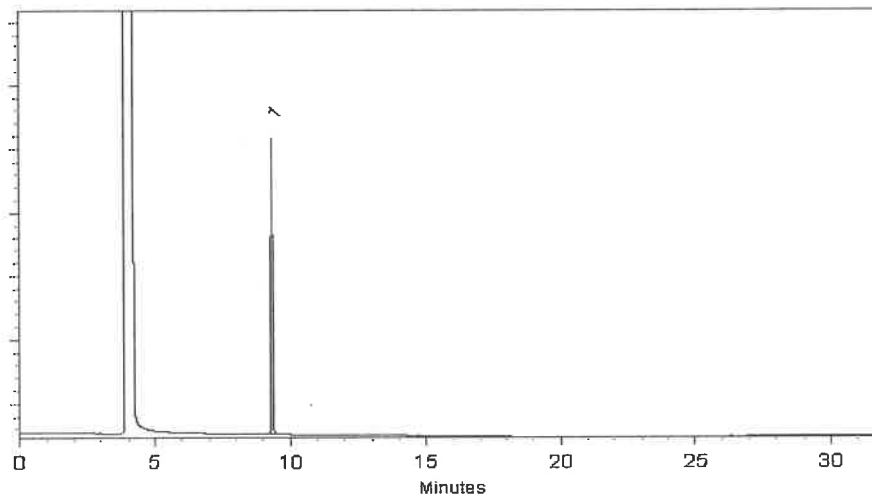
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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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:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- 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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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

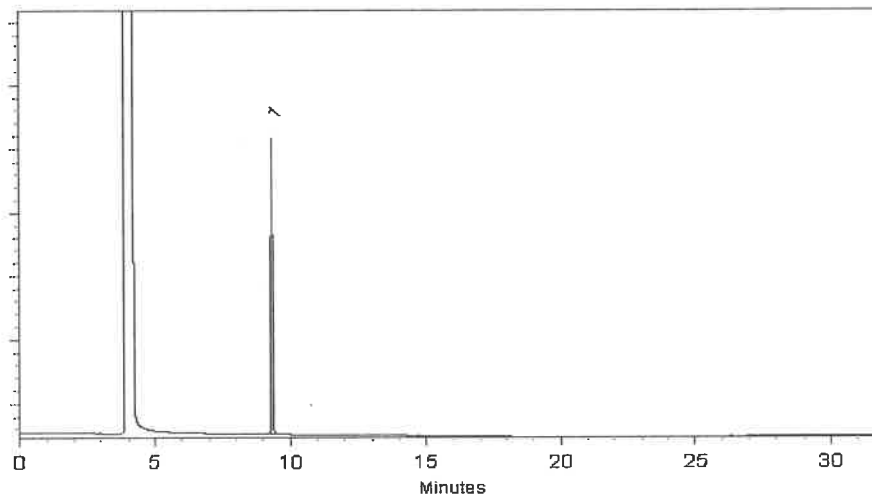
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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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:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- 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.: A0193887
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 : April 30, 2026 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	SHBP8774	99%	5,006.5 µg/mL	+/- 173.0015
2	2-Butanone (MEK)	78-93-3	SHBN9536	99%	5,008.5 µg/mL	+/- 173.0706
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,000.3 µg/mL	+/- 172.7884
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,001.7 µg/mL	+/- 172.8345

* 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:

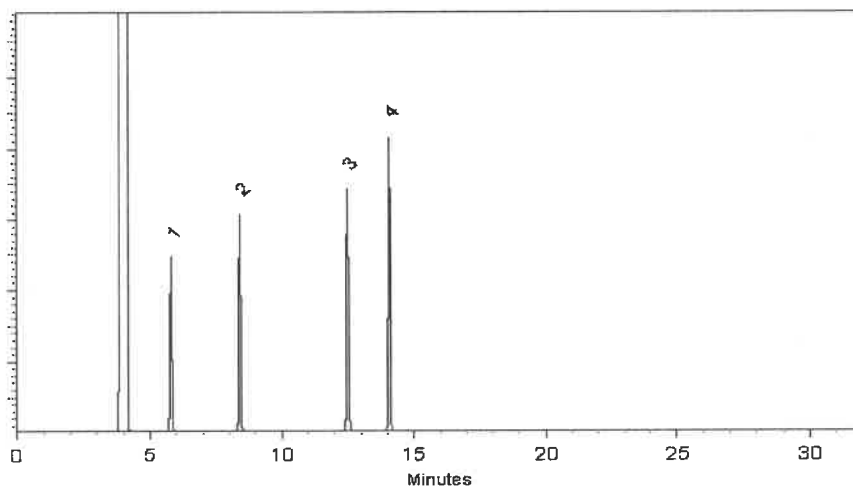
FID

Split Vent:

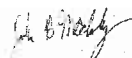
40 ml/min

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.


Josh McCloskey - Operations Technician I

Date Mixed: 24-Jan-2023

Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 27-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0194279

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 : October 31, 2029 **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	00012554	99%	2,001.5 µg/mL	+/- 112.7231
2	Chloromethane (methyl chloride)	74-87-3	SHBK6571	99%	2,001.2 µg/mL	+/- 112.5863
3	Vinyl chloride	75-01-4	00015559	99%	2,001.4 µg/mL	+/- 112.6561
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8262
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,001.9 µg/mL	+/- 112.5897
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	2,000.8 µg/mL	+/- 112.6473

* 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:

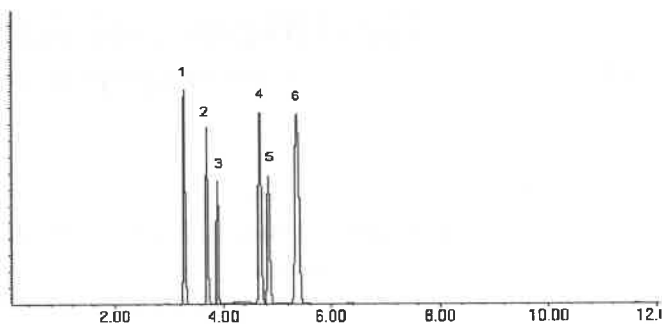
MSD

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 Suckar - Mix Technician

Date Mixed: 03-Feb-2023

Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 07-Feb-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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.:** A0205013
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 : June 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%	2,012.7 µg/mL	+/- 69.5670
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,017.5 µg/mL	+/- 69.7338
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,020.0 µg/mL	+/- 69.8205
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,018.7 µg/mL	+/- 69.7744
5	Propyl acetate	109-60-4	KLOBM	99%	2,012.0 µg/mL	+/- 69.5439
6	Butyl acetate	123-86-4	SHBP6314	99%	2,020.0 µg/mL	+/- 69.8205
7	Amyl acetate	628-63-7	41325/1	97%	2,019.5 µg/mL	+/- 69.8046

* 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:

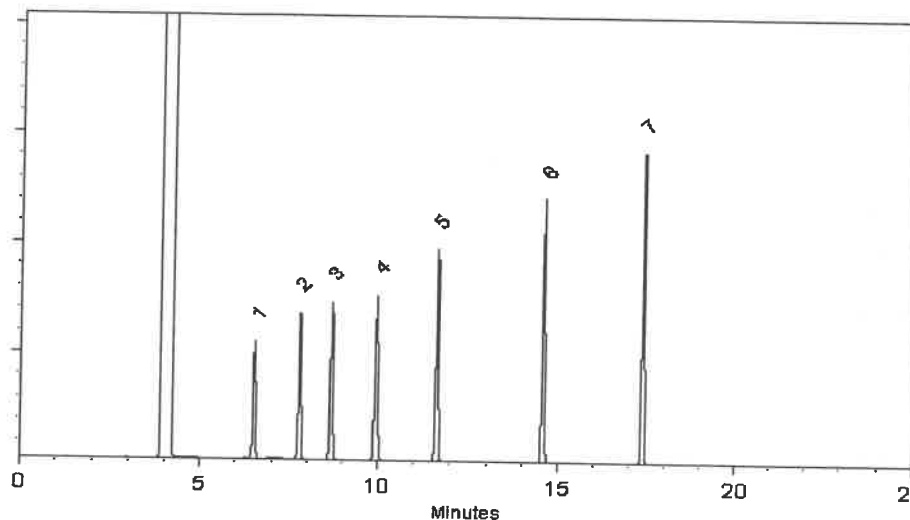
FID

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.


Brittany Federinko - Operations Tech I

Date Mixed: 04-Dec-2023 Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Dec-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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:

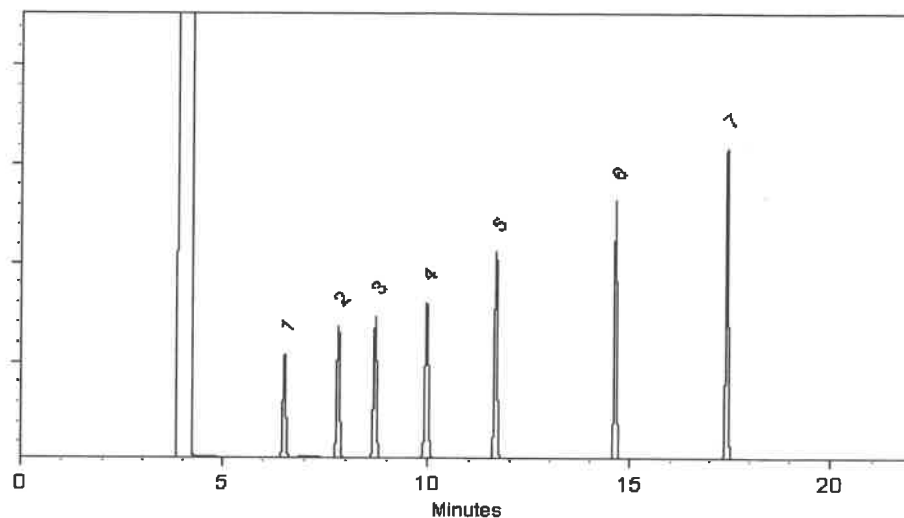
FID

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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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:

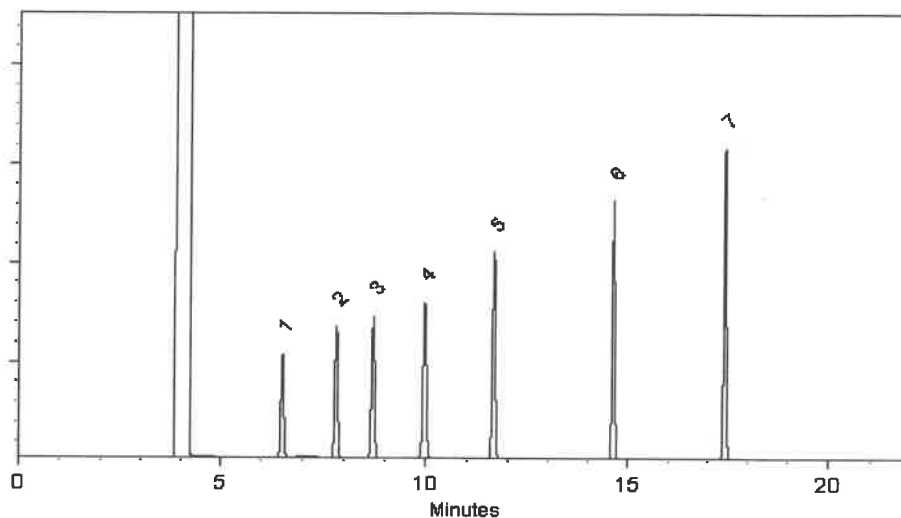
FID

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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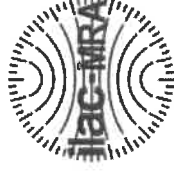
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

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:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- 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:

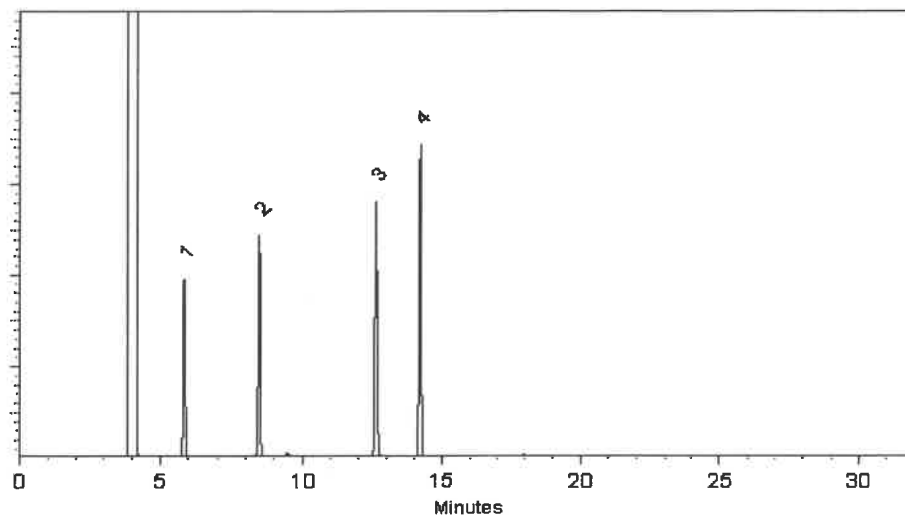
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

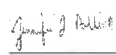


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.
- 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
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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:

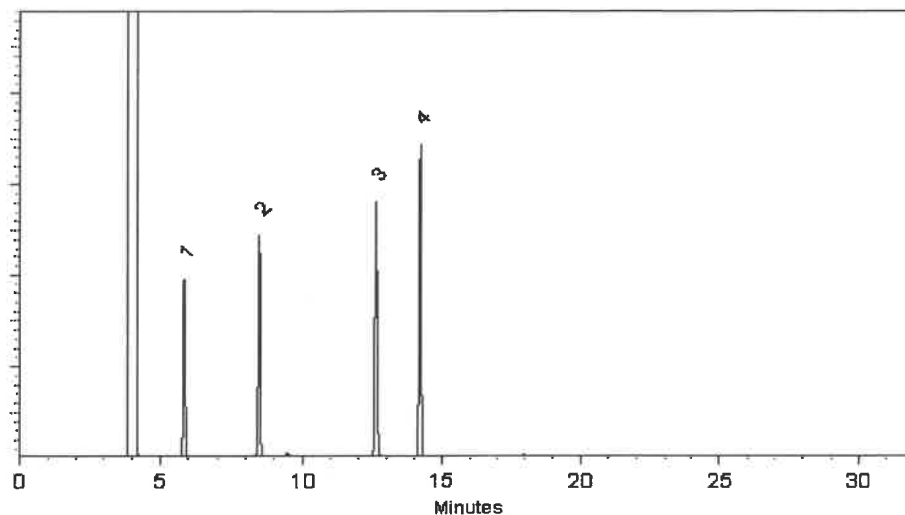
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

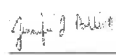


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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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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:

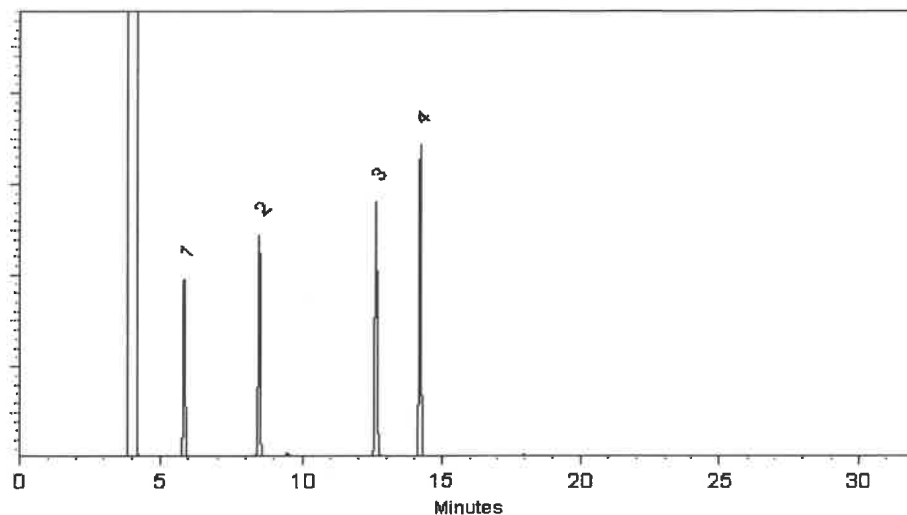
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

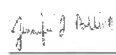


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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:

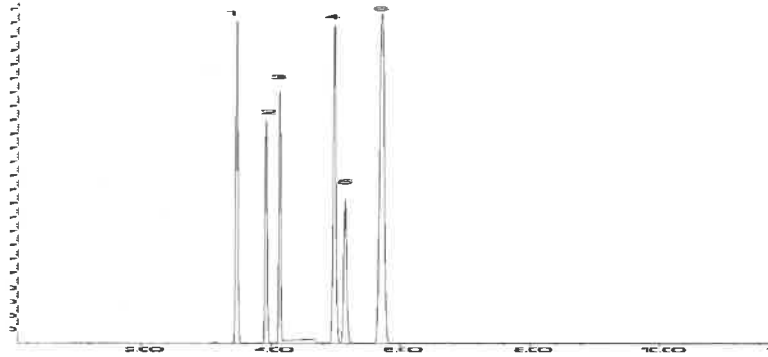
MSD

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:

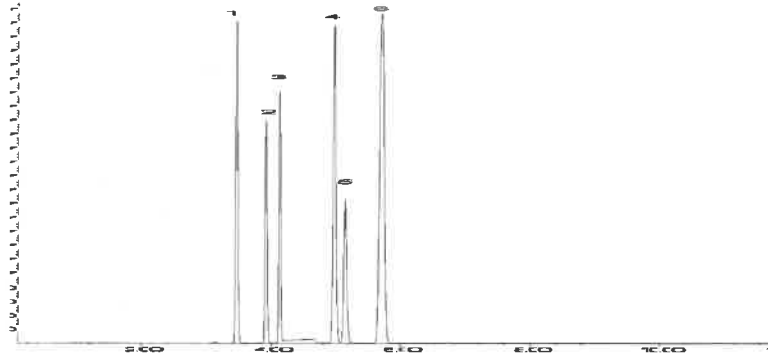
MSD

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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2014 Dec 01/08/21
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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:

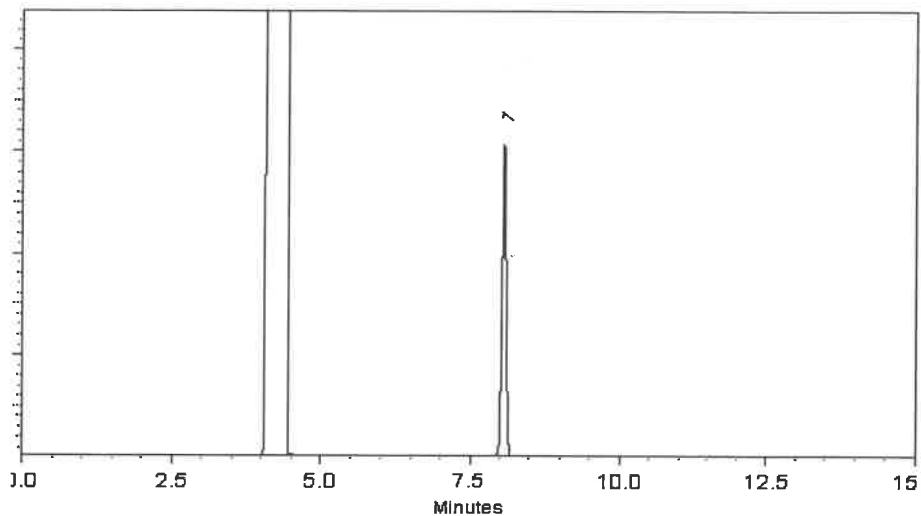
FID

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/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:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- 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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10 vol Rec 01/08/25
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

✓ 14793 to 14802



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-FL **Lot No.:** A0220563
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%	8,060.0 µg/mL	+/- 278.5905

* 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:

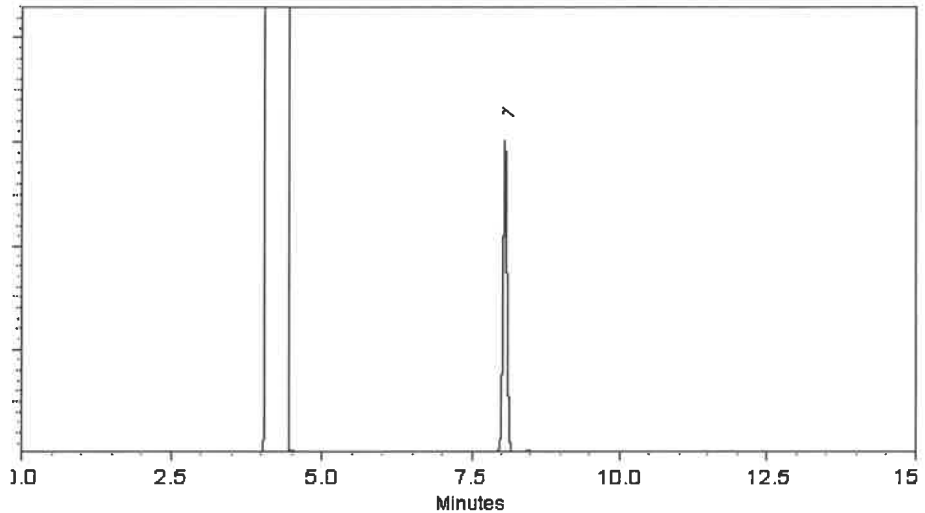
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

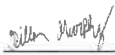


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckal - Mix Technician

Date Mixed: 30-Dec-2024

Balance Serial # B345965662


Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Poffus at 7:11 am, Jan 03, 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/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:

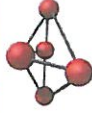
- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

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.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **70046**
Lot Number: **070122**
Description: **Bromochloromethane**

Solvent: **Methanol**
Lot# **EC592-US**

Expiration Date: **070127**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **25.0**

5E-05 Balance Uncertainty
0.0002 Flask Uncertainty

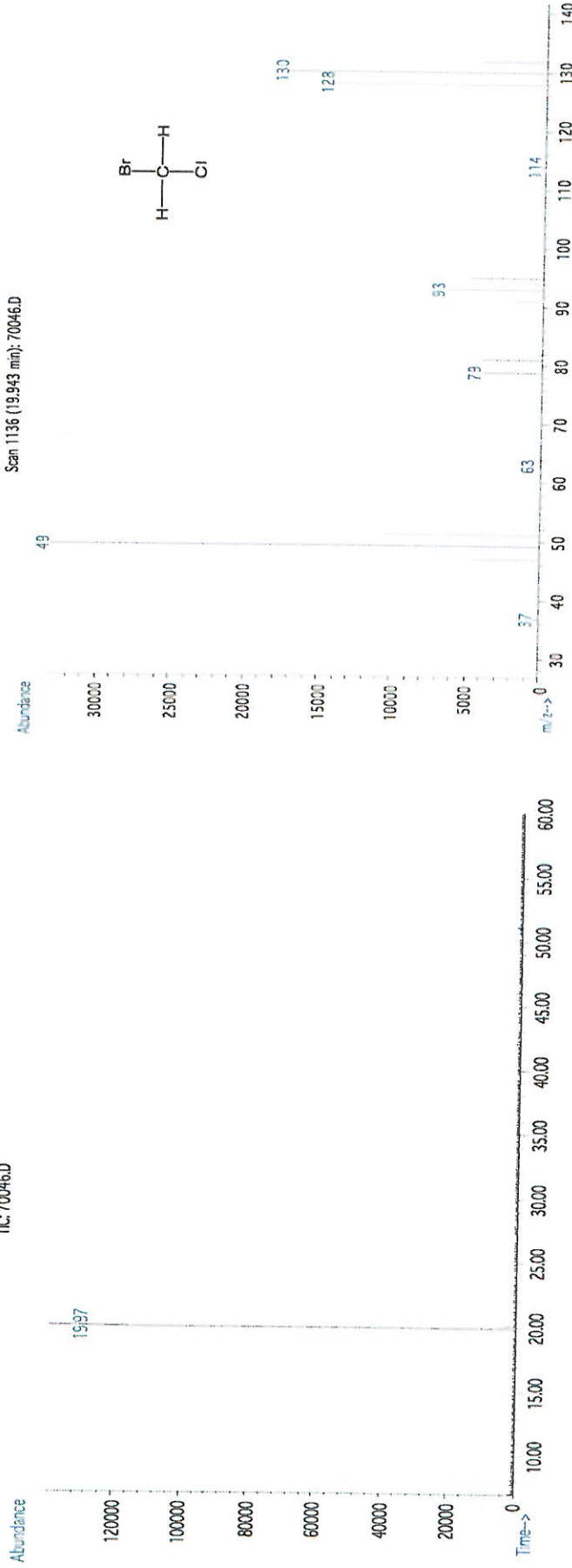
Formulated By:	Gabriel Helland	070122
DATE		
Reviewed By:	Pedro L. Rentas	070122
DATE		

SDS Information

Expanded Uncertainty (µg/mL) **5.7**
Actual Weight(g) **0.02540**
Actual Conc (µg/mL) **1004.1**
(Solvent Safety Info. On Attached pg.)
OSHA PEL (TWA) **LD50**

1. Bromochloromethane	46	AY01	1000	99	0.2	0.02530	0.02540	1004.1	5.7	74-97-5	200 ppm (1050mg/m ³ /8H)	ori-rat 5000mg/kg
Method GC/MSD-1.M: Column : (60m X 0.25mm X 1.5 µm) Temp 1 = 35°C (10min.), Temp 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector B= 200°C, Detector B = 220°C. Analyst:												
Candice Warren												

TIC: 70046.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).

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
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846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality



SHIPPING DOCUMENTS

CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net		Chemtech Project Number: Q1250	
COC Number:					
CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION	
COMPANY: Tetra Tech		PROJECT NAME: NWIRP Bethpage		BILL TO: SEE CONTRACT PO#	
ADDRESS: 4433 Corporation Lane Suite 300		PROJECT #: 112G08005-WE13 LOCATION: VPB-192		ADDRESS:	
CITY: Virginia Beach STATE: VA ZIP: 23462		PROJECT MANAGER: Ernie Wu		CITY: STATE: ZIP:	
ATTENTION: Ernie Wu		E-MAIL: ernie.wu@tetrattech.com		ATTENTION: PHONE:	
PHONE: 757-466-4901 FAX: 757-461-4148		PHONE: 757-466-4901 FAX: 757-461-4148			
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS	
FAX: 10 DAYS* HARD COPY: 10 DAYS* EDD 10 DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		☐ RESEULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ ☐ EDD Format _____		VOC(SW846-3260B) 1,4 Dioxane (8270 SIM) 1 2 3 4 5 6 7 8 9	
				PRESERVATIVES	
CHEMTECH SAMPLE ID		PROJECT SAMPLE IDENTIFICATION		SAMPLE MATRIX	
		SAMPLE TYPE		SAMPLE COLLECTION	
		DATE		TIME	
		# of Bottles			
		A			
		1 2 3 4 5 6 7 8 9			
		A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other			
1. BP-VPB-192-TB-20250127		QA		X	
2. BP-VPB-192-GW-420-422		AQ		X	
3. BP-VPB-192-GW-300-302		AQ		X	
4. BP-VPB-192-GW-320-322		AQ		X	
5. BP-VPB-192-GW-340-342		AQ		X	
6. BP-VPB-192-GW-360-362		AQ		X	
7. BP-VPB-192-DUP-20250128		AQ		X	
8. BP-VPB-192-GW-380-382		AQ		X	
9. BP-VPB-192-GW-400-402		AQ		X	
10. BP-VPB-192-GW-440-442		AQ		X	
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY					
RELINQUISHED BY SAMPLER		DATE/TIME		RECEIVED BY	
1. [Signature]		1/30/25 1530		1. [Signature] 1-30-25	
RELINQUISHED BY		DATE/TIME		RECEIVED BY	
2. [Signature]		1/30/25 1530		2. [Signature]	
RELINQUISHED BY		DATE/TIME		RECEIVED FOR LAB BY	
3. [Signature]		1/30/25 1530		3. [Signature]	
SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight		CHEMTECH: ☐ Picked Up ☐ Overnight		Shipment Complete ☐ YES ☐ NO	
Page 1 of 1					
WHITE - CHEMTECH COPY FOR RETURN TO CLIENT		YELLOW - CHEMTECH COPY		PINK - SAMPLER COPY	



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

Laboratory Certification

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1250 TETR06

Order Date : 1/31/2025 10:38:00 AM

Project Mgr :

Client Name : Tetra Tech NUS, Inc.

Project Name : CTO WE13

Report Type : Level 4

Client Contact : Ernie Wu

Receive DateTime : 1/30/2025 6:20:00 PM

EDD Type : ADAPT

Invoice Name : Tetra Tech NUS, Inc.

Purchase Order :

Hard Copy Date :

Invoice Contact : Ernie Wu

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1250-01	BP-VPB-192-TB-20250127	Water	01/27/2025	09:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1250-02	BP-VPB-192-GW-420-422	Water	01/29/2025	10:32					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1250-03	BP-VPB-192-GW-300-302	Water	01/27/2025	10:30					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1250-04	BP-VPB-192-GW-320-322	Water	01/27/2025	12:30					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1250-05	BP-VPB-192-GW-340-342	Water	01/27/2025	14:40					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1250-06	BP-VPB-192-GW-360-362	Water	01/28/2025	10:15					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1250-07	Q1250-06MS	Water	01/28/2025	10:15					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1250-08	Q1250-06MSD	Water	01/28/2025	10:15					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1250 TETR06

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Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1250-10	~~BP-VPB-GW-380-382~~ BP-VPB-192-GW-380-382	Water	01/28/2025	12:18	VOCMS Group1		8260-Low	10 Bus. Days	
Q1250-11	~~BP-VPB-GW-400-402~~ BP-VPB-192-GW-400-402	Water	01/28/2025	14:52	VOCMS Group1		8260-Low	10 Bus. Days	
Q1250-12	~~BP-VPB-GW-440-442~~ BP-VPB-192-GW-440-442	Water	01/29/2025	12:28	VOCMS Group1		8260-Low	10 Bus. Days	

Relinquished By :

Date / Time : 1-31-25 11:40

Received By :

Date / Time : 1-31-25 11:40

Storage Area : VOA Refridgerator Room

New Jersey Department of Environmental Protection

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample	
Laboratory: <u>Chemtech</u>	Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u>
~~Name~~	Title: <u>Sample Custodian</u>
Field Sample Seal No. <u>Q1256</u>	Date Broken <u>1/31/2025</u>
Case No.: <u>2173 Clarendon Brooklyn</u>	Military Time Seal Broken: <u>12:42:00</u>
	Analytical Parameter/Fraction <u>OCMS Group3</u>

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1256-01	SV1		
Q1256-02	IA1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
1/31	1430	Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

Distribution: White - Original (Sent With Report) Yellow - Contractor Archive Pink - Sample Custodian - Interim Copy