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

Cover Page

Order ID : Q3371

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number	Client Sample Number
Q3371-01	BP-VPB-184-TB-20251010
Q3371-02	BP-VPB-184-EB-20251016
Q3371-03	VPB184-HYD-20251010
Q3371-04	BP-VPB-184-GW-915-917
Q3371-05	BP-VPB-184-GW-920-922
Q3371-06	VPB184-HYD-20251016

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: 10/25/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NWIRP Bethpage 112G08005-WE13
Project Manager# Ernie Wu
Order ID # Q3371
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
6 Water samples were received on 10/16/2025.
B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis of VOC-TCLVOA-10 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries were met for all analysis.
The Internal Standards Areas were met for all analysis.
The Retention Times were met for all analysis.

The RPD were met for all analysis.
The Blank Spike met requirements for all compounds.
The Blank Spike Duplicate met requirements for all compounds.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.

The Continuous Calibration File ID VX048252.D met the requirements except for 4-Methyl-2-Pentanone is failing marginally low therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:
Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

The not QT review data is reported in the Miscellaneous.

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

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

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

Signature_____

284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

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 is 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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q3371 MATRIX: Water

METHOD: 8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements. The Continuous Calibration File ID VX048252.D met the requirements except for 4-Methyl-2-Pentanone is failing marginally low therefore no corrective action taken.			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range.			✓
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

ADDITIONAL COMMENTS:

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

The laboratory certifies that the all-electronic diskette deliverable exactly match the data Summary forms (i.e. Form Is)."

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

The not QT review data is reported in the Miscellaneous.

_____ _____
QA REVIEW Date

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q3371**

	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 Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **SOHIL JODHANI** **Date:** **10/25/2025**

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

LAB CHRONICLE

OrderID:	Q3371	**OrderDate:**	10/16/2025 4:13:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	D31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3371-01	**BP-VPB-184-TB-20251010**	**Water**			**10/10/25**			**10/16/25**
			VOC-TCLVOA-10	8260-Low			10/21/25	
Q3371-02	**BP-VPB-184-EB-20251016**	**Water**			**10/16/25**			**10/16/25**
			VOC-TCLVOA-10	8260-Low			10/21/25	
Q3371-03	**VPB184-HYD-20251010**	**Water**			**10/10/25**			**10/16/25**
			VOC-TCLVOA-10	8260-Low			10/21/25	
Q3371-04	**BP-VPB-184-GW-915-917**	**Water**			**10/15/25**			**10/16/25**
			VOC-TCLVOA-10	8260-Low			10/20/25	
Q3371-05	**BP-VPB-184-GW-920-922**	**Water**			**10/15/25**			**10/16/25**
			VOC-TCLVOA-10	8260-Low			10/20/25	
Q3371-06	**VPB184-HYD-20251016**	**Water**			**10/16/25**			**10/16/25**
			VOC-TCLVOA-10	8260-Low			10/21/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q3371

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**BP-VPB-184-EB-20251016**								
Q3371-02	BP-VPB-184-EB-2(	Water	Acetone	6.80		1.50	3.80	5.00	ug/L
			Total Voc :	6.80					
			Total Concentration:	6.80					
Client ID:	**BP-VPB-184-GW-915-917**								
Q3371-04	BP-VPB-184-GW-9	Water	Acetone	64.0		1.50	3.80	5.00	ug/L
Q3371-04	BP-VPB-184-GW-9	Water	Carbon Disulfide	0.36	J	0.21	0.75	1.00	ug/L
Q3371-04	BP-VPB-184-GW-9	Water	2-Butanone	12.5		0.98	2.50	5.00	ug/L
			Total Voc :	76.9					
			Total Concentration:	76.9					

QC
SUMMARY

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

Surrogate Summary

SDG No.: Q3371

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	High
Q3371-01	BP-VPB-184-TB-20251010	1,2-Dichloroethane-d4	50	52.4	105		81	118
		Dibromofluoromethane	50	46.8	94		80	119
		Toluene-d8	50	45.6	91		89	112
		4-Bromofluorobenzene	50	53.0	106		85	114
Q3371-02	BP-VPB-184-EB-20251016	1,2-Dichloroethane-d4	50	54.7	109		81	118
		Dibromofluoromethane	50	49.5	99		80	119
		Toluene-d8	50	47.2	94		89	112
		4-Bromofluorobenzene	50	55.2	110		85	114
Q3371-03	VPB184-HYD-20251010	1,2-Dichloroethane-d4	50	48.4	97		81	118
		Dibromofluoromethane	50	46.4	93		80	119
		Toluene-d8	50	44.9	90		89	112
		4-Bromofluorobenzene	50	50.7	101		85	114
Q3371-04	BP-VPB-184-GW-915-917	1,2-Dichloroethane-d4	50	51.0	102		81	118
		Dibromofluoromethane	50	48.4	97		80	119
		Toluene-d8	50	47.1	94		89	112
		4-Bromofluorobenzene	50	45.0	90		85	114
Q3371-05	BP-VPB-184-GW-920-922	1,2-Dichloroethane-d4	50	55.9	112		81	118
		Dibromofluoromethane	50	53.2	106		80	119
		Toluene-d8	50	51.4	103		89	112
		4-Bromofluorobenzene	50	48.7	97		85	114
Q3371-06	VPB184-HYD-20251016	1,2-Dichloroethane-d4	50	54.8	110		81	118
		Dibromofluoromethane	50	47.2	94		80	119
		Toluene-d8	50	46.8	94		89	112
		4-Bromofluorobenzene	50	55.5	111		85	114
VX1020WBL01	VX1020WBL01	1,2-Dichloroethane-d4	50	56.9	114		81	118
		Dibromofluoromethane	50	53.0	106		80	119
		Toluene-d8	50	51.2	102		89	112
		4-Bromofluorobenzene	50	52.1	104		85	114
VX1020WBS01	VX1020WBS01	1,2-Dichloroethane-d4	50	51.7	103		81	118
		Dibromofluoromethane	50	51.2	102		80	119
		Toluene-d8	50	51.9	104		89	112
		4-Bromofluorobenzene	50	51.1	102		85	114
VX1020WBSD0	VX1020WBSD01	1,2-Dichloroethane-d4	50	57.5	115		81	118
		Dibromofluoromethane	50	53.2	106		80	119
		Toluene-d8	50	51.9	104		89	112
		4-Bromofluorobenzene	50	52.1	104		85	114
VX1021WBL01	VX1021WBL01	1,2-Dichloroethane-d4	50	52.5	105		81	118
		Dibromofluoromethane	50	47.1	94		80	119
		Toluene-d8	50	46.4	93		89	112
		4-Bromofluorobenzene	50	52.6	105		85	114
VX1021WBS01	VX1021WBS01	1,2-Dichloroethane-d4	50	49.2	98		81	118
		Dibromofluoromethane	50	49.3	99		80	119
		Toluene-d8	50	47.8	96		89	112
		4-Bromofluorobenzene	50	49.7	99		85	114

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3371**	**Analytical Method:**	**SW8260-Low**
Client:	**Tetra Tech NUS, Inc.**	**Datafile :**	VX048240.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1020WBS01	Dichlorodifluoromethane	20	17.8	ug/L	89			32	152	
	Chloromethane	20	19.4	ug/L	97			50	139	
	Vinyl chloride	20	19.2	ug/L	96			58	137	
	Bromomethane	20	21.5	ug/L	108			53	141	
	Chloroethane	20	21.1	ug/L	106			60	138	
	Trichlorofluoromethane	20	18.7	ug/L	94			65	141	
	1,1,2-Trichlorotrifluoroethane	20	18.3	ug/L	92			70	136	
	1,1-Dichloroethene	20	19.3	ug/L	97			71	131	
	Acetone	100	85.7	ug/L	86			39	160	
	Carbon disulfide	20	17.9	ug/L	90			64	133	
	Methyl tert-butyl Ether	20	18.7	ug/L	94			71	124	
	Methyl Acetate	20	19.7	ug/L	99			56	136	
	Methylene Chloride	20	19.9	ug/L	100			74	124	
	trans-1,2-Dichloroethene	20	19.5	ug/L	98			75	124	
	1,1-Dichloroethane	20	18.8	ug/L	94			77	125	
	Cyclohexane	20	18.7	ug/L	94			71	130	
	2-Butanone	100	92.0	ug/L	92			56	143	
	Carbon Tetrachloride	20	17.6	ug/L	88			72	136	
	cis-1,2-Dichloroethene	20	19.1	ug/L	96			78	123	
	Bromochloromethane	20	21.4	ug/L	107			78	123	
	Chloroform	20	19.3	ug/L	97			79	124	
	1,1,1-Trichloroethane	20	18.8	ug/L	94			74	131	
	Methylcyclohexane	20	17.3	ug/L	86			72	132	
	Benzene	20	18.8	ug/L	94			79	120	
	1,2-Dichloroethane	20	18.8	ug/L	94			73	128	
	Trichloroethene	20	19.2	ug/L	96			79	123	
	1,2-Dichloropropane	20	19.4	ug/L	97			78	122	
	Bromodichloromethane	20	18.9	ug/L	95			79	125	
	4-Methyl-2-Pentanone	100	94.8	ug/L	95			67	130	
	Toluene	20	19.3	ug/L	97			80	121	
	t-1,3-Dichloropropene	20	18.9	ug/L	95			73	127	
	cis-1,3-Dichloropropene	20	19.0	ug/L	95			75	124	
	1,1,2-Trichloroethane	20	19.5	ug/L	98			80	119	
	2-Hexanone	100	94.6	ug/L	95			57	139	
	Dibromochloromethane	20	18.5	ug/L	93			74	126	
	1,2-Dibromoethane	20	19.1	ug/L	96			77	121	
	Tetrachloroethene	20	17.7	ug/L	89			74	129	
	Chlorobenzene	20	19.0	ug/L	95			82	118	
	Ethyl Benzene	20	18.5	ug/L	93			79	121	
	m/p-Xylenes	40	38.5	ug/L	96			80	121	
	o-Xylene	20	18.7	ug/L	94			78	122	
	Styrene	20	19.1	ug/L	96			78	123	
	Bromoform	20	18.6	ug/L	93			66	130	
	Isopropylbenzene	20	18.3	ug/L	92			72	131	
	1,1,2,2-Tetrachloroethane	20	19.0	ug/L	95			71	121	
	1,3-Dichlorobenzene	20	18.0	ug/L	90			80	119	
	1,4-Dichlorobenzene	20	17.9	ug/L	90			79	118	
	1,2-Dichlorobenzene	20	18.3	ug/L	92			80	119	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3371**	**Analytical Method:**	**SW8260-Low**
Client:	**Tetra Tech NUS, Inc.**	**Datafile :**	VX048240.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1020WBS01	1,2-Dibromo-3-Chloropropane	20	17.6	ug/L	88			62	128	
	1,2,4-Trichlorobenzene	20	16.1	ug/L	81			69	130	
	1,2,3-Trichlorobenzene	20	16.8	ug/L	84			69	129	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3371**	**Analytical Method:**	**SW8260-Low**
Client:	**Tetra Tech NUS, Inc.**	**Datafile :**	VX048247.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1020WBSD01	Dichlorodifluoromethane	20	17.4	ug/L	87	2		32	152	20
	Chloromethane	20	20.9	ug/L	104	7		50	139	20
	Vinyl chloride	20	19.4	ug/L	97	1		58	137	20
	Bromomethane	20	21.5	ug/L	108	0		53	141	20
	Chloroethane	20	19.9	ug/L	100	6		60	138	20
	Trichlorofluoromethane	20	18.3	ug/L	92	2		65	141	20
	1,1,2-Trichlorotrifluoroethane	20	17.7	ug/L	89	3		70	136	20
	1,1-Dichloroethene	20	18.3	ug/L	92	5		71	131	20
	Acetone	100	86.3	ug/L	86	0		39	160	20
	Carbon disulfide	20	17.2	ug/L	86	5		64	133	20
	Methyl tert-butyl Ether	20	20.4	ug/L	102	8		71	124	20
	Methyl Acetate	20	20.2	ug/L	101	2		56	136	20
	Methylene Chloride	20	21.7	ug/L	109	9		74	124	20
	trans-1,2-Dichloroethene	20	19.0	ug/L	95	3		75	124	20
	1,1-Dichloroethane	20	19.5	ug/L	98	4		77	125	20
	Cyclohexane	20	18.1	ug/L	91	3		71	130	20
	2-Butanone	100	98.7	ug/L	99	7		56	143	20
	Carbon Tetrachloride	20	17.1	ug/L	86	2		72	136	20
	cis-1,2-Dichloroethene	20	19.9	ug/L	100	4		78	123	20
	Bromochloromethane	20	23.6	ug/L	118	10		78	123	20
	Chloroform	20	20.7	ug/L	104	7		79	124	20
	1,1,1-Trichloroethane	20	18.8	ug/L	94	0		74	131	20
	Methylcyclohexane	20	16.4	ug/L	82	5		72	132	20
	Benzene	20	18.9	ug/L	95	1		79	120	20
	1,2-Dichloroethane	20	20.1	ug/L	101	7		73	128	20
	Trichloroethene	20	18.2	ug/L	91	5		79	123	20
	1,2-Dichloropropane	20	20.4	ug/L	102	5		78	122	20
	Bromodichloromethane	20	19.8	ug/L	99	4		79	125	20
	4-Methyl-2-Pentanone	100	100	ug/L	100	5		67	130	20
	Toluene	20	18.7	ug/L	94	3		80	121	20
	t-1,3-Dichloropropene	20	19.9	ug/L	100	5		73	127	20
	cis-1,3-Dichloropropene	20	19.4	ug/L	97	2		75	124	20
	1,1,2-Trichloroethane	20	21.1	ug/L	106	8		80	119	20
	2-Hexanone	100	100	ug/L	100	5		57	139	20
	Dibromochloromethane	20	20.9	ug/L	104	11		74	126	20
	1,2-Dibromoethane	20	21.4	ug/L	107	11		77	121	20
	Tetrachloroethene	20	17.0	ug/L	85	5		74	129	20
	Chlorobenzene	20	19.0	ug/L	95	0		82	118	20
	Ethyl Benzene	20	17.8	ug/L	89	4		79	121	20
	m/p-Xylenes	40	36.6	ug/L	92	4		80	121	20
	o-Xylene	20	18.4	ug/L	92	2		78	122	20
	Styrene	20	19.1	ug/L	96	0		78	123	20
	Bromoform	20	19.7	ug/L	99	6		66	130	20
	Isopropylbenzene	20	17.5	ug/L	88	4		72	131	20
	1,1,2,2-Tetrachloroethane	20	20.4	ug/L	102	7		71	121	20
	1,3-Dichlorobenzene	20	18.0	ug/L	90	0		80	119	20
	1,4-Dichlorobenzene	20	17.7	ug/L	89	1		79	118	20
	1,2-Dichlorobenzene	20	18.3	ug/L	92	0		80	119	20

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3371**	**Analytical Method:**	**SW8260-Low**
Client:	**Tetra Tech NUS, Inc.**	**Datafile :**	VX048247.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1020WBSD01	1,2-Dibromo-3-Chloropropane	20	18.5	ug/L	93	6		62	128	20
	1,2,4-Trichlorobenzene	20	16.5	ug/L	83	2		69	130	20
	1,2,3-Trichlorobenzene	20	17.0	ug/L	85	1		69	129	20

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3371**	**Analytical Method:**	**SW8260-Low**
Client:	**Tetra Tech NUS, Inc.**	**Datafile :**	VX048255.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1021WBS01	Dichlorodifluoromethane	20	16.8	ug/L	84			32	152	
	Chloromethane	20	17.8	ug/L	89			50	139	
	Vinyl chloride	20	17.6	ug/L	88			58	137	
	Bromomethane	20	19.3	ug/L	97			53	141	
	Chloroethane	20	18.9	ug/L	95			60	138	
	Trichlorofluoromethane	20	17.7	ug/L	89			65	141	
	1,1,2-Trichlorotrifluoroethane	20	17.6	ug/L	88			70	136	
	1,1-Dichloroethene	20	18.0	ug/L	90			71	131	
	Acetone	100	82.3	ug/L	82			39	160	
	Carbon disulfide	20	16.6	ug/L	83			64	133	
	Methyl tert-butyl Ether	20	17.6	ug/L	88			71	124	
	Methyl Acetate	20	17.5	ug/L	88			56	136	
	Methylene Chloride	20	19.1	ug/L	96			74	124	
	trans-1,2-Dichloroethene	20	17.9	ug/L	90			75	124	
	1,1-Dichloroethane	20	18.4	ug/L	92			77	125	
	Cyclohexane	20	19.2	ug/L	96			71	130	
	2-Butanone	100	85.2	ug/L	85			56	143	
	Carbon Tetrachloride	20	17.0	ug/L	85			72	136	
	cis-1,2-Dichloroethene	20	18.9	ug/L	95			78	123	
	Bromochloromethane	20	21.6	ug/L	108			78	123	
	Chloroform	20	18.8	ug/L	94			79	124	
	1,1,1-Trichloroethane	20	18.1	ug/L	91			74	131	
	Methylcyclohexane	20	17.0	ug/L	85			72	132	
	Benzene	20	18.5	ug/L	93			79	120	
	1,2-Dichloroethane	20	19.1	ug/L	96			73	128	
	Trichloroethene	20	18.1	ug/L	91			79	123	
	1,2-Dichloropropane	20	19.3	ug/L	97			78	122	
	Bromodichloromethane	20	18.6	ug/L	93			79	125	
	4-Methyl-2-Pentanone	100	86.9	ug/L	87			67	130	
	Toluene	20	18.8	ug/L	94			80	121	
	t-1,3-Dichloropropene	20	18.4	ug/L	92			73	127	
	cis-1,3-Dichloropropene	20	18.8	ug/L	94			75	124	
	1,1,2-Trichloroethane	20	19.1	ug/L	96			80	119	
	2-Hexanone	100	85.9	ug/L	86			57	139	
	Dibromochloromethane	20	18.1	ug/L	91			74	126	
	1,2-Dibromoethane	20	18.6	ug/L	93			77	121	
	Tetrachloroethene	20	16.9	ug/L	85			74	129	
	Chlorobenzene	20	18.0	ug/L	90			82	118	
	Ethyl Benzene	20	17.8	ug/L	89			79	121	
	m/p-Xylenes	40	36.8	ug/L	92			80	121	
	o-Xylene	20	18.1	ug/L	91			78	122	
	Styrene	20	18.8	ug/L	94			78	123	
	Bromoform	20	17.0	ug/L	85			66	130	
	Isopropylbenzene	20	17.1	ug/L	86			72	131	
	1,1,2,2-Tetrachloroethane	20	17.3	ug/L	86			71	121	
	1,3-Dichlorobenzene	20	17.2	ug/L	86			80	119	
	1,4-Dichlorobenzene	20	16.6	ug/L	83			79	118	
	1,2-Dichlorobenzene	20	17.2	ug/L	86			80	119	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3371**	**Analytical Method:**	**SW8260-Low**
Client:	**Tetra Tech NUS, Inc.**	**Datafile :**	VX048255.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1021WBS01	1,2-Dibromo-3-Chloropropane	20	14.2	ug/L	71			62	128	
	1,2,4-Trichlorobenzene	20	15.2	ug/L	76			69	130	
	1,2,3-Trichlorobenzene	20	15.5	ug/L	78			69	129	

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

VOLATILE METHOD BLANK SUMMARY

Client ID: VX1020WBL01

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG NO.: Q3371

Lab File ID: VX048239.D Lab Sample ID: VX1020WBL01

Date Analyzed: 10/20/2025 Time Analyzed: 15:23

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
VX1020WBS01	VX1020WBS01	VX048240.D	10/20/2025
BP-VPB-184-GW-915-917	Q3371-04	VX048245.D	10/20/2025
BP-VPB-184-GW-920-922	Q3371-05	VX048246.D	10/20/2025
VX1020WBSD01	VX1020WBSD01	VX048247.D	10/20/2025

COMMENTS:

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

VOLATILE METHOD BLANK SUMMARY

Client ID: VX1021WBL01

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG NO.: Q3371

Lab File ID: VX048254.D Lab Sample ID: VX1021WBL01

Date Analyzed: 10/21/2025 Time Analyzed: 09:40

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
VX1021WBS01	VX1021WBS01	VX048255.D	10/21/2025
VPB184-HYD-20251010	Q3371-03	VX048257.D	10/21/2025
BP-VPB-184-TB-20251010	Q3371-01	VX048258.D	10/21/2025
BP-VPB-184-EB-20251016	Q3371-02	VX048259.D	10/21/2025
VPB184-HYD-20251016	Q3371-06	VX048260.D	10/21/2025

COMMENTS:

Raw Data: **VX048226.D**

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: TETR06
Lab Code: ACE
SDG NO.: Q3371
Lab File ID: VX048226.D
BFB Injection Date: 10/20/2025
Instrument ID: MSVOA_X
BFB Injection Time: 08:15
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	17.7
75	30.0 - 60.0% of mass 95	50.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.3 (0.4) 1
174	50.0 - 100.0% of mass 95	76.5
175	5.0 - 9.0% of mass 174	5.8 (7.5) 1
176	95.0 - 101.0% of mass 174	73.8 (96.4) 1
177	5.0 - 9.0% of mass 176	4.8 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX048229.D	10/20/2025	10:59
VSTDICC020	VSTDICC020	VX048231.D	10/20/2025	11:40
VSTDICCC050	VSTDICCC050	VX048232.D	10/20/2025	12:01
VSTDICC100	VSTDICC100	VX048233.D	10/20/2025	12:22
VSTDICC150	VSTDICC150	VX048234.D	10/20/2025	12:43
VSTDICC005	VSTDICC005	VX048236.D	10/20/2025	13:49
VX1020WBL01	VX1020WBL01	VX048239.D	10/20/2025	15:23
VX1020WBS01	VX1020WBS01	VX048240.D	10/20/2025	15:50
BP-VPB-184-GW-915-917	Q3371-04	VX048245.D	10/20/2025	17:41
BP-VPB-184-GW-920-922	Q3371-05	VX048246.D	10/20/2025	18:02
VX1020WBSD01	VX1020WBSD01	VX048247.D	10/20/2025	18:22
VSTDCCC050EC	VSTDCCC050	VX048250.D	10/20/2025	19:25

Raw Data: **VX048251.D**

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: TETR06
Lab Code: ACE
SDG NO.: Q3371
Lab File ID: VX048251.D
BFB Injection Date: 10/21/2025
Instrument ID: MSVOA_X
BFB Injection Time: 08:12
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	18
75	30.0 - 60.0% of mass 95	50.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.6 (0.7) 1
174	50.0 - 100.0% of mass 95	75.8
175	5.0 - 9.0% of mass 174	5.5 (7.2) 1
176	95.0 - 101.0% of mass 174	72.8 (96.1) 1
177	5.0 - 9.0% of mass 176	5 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX048252.D	10/21/2025	08:43
VX1021WBL01	VX1021WBL01	VX048254.D	10/21/2025	09:40
VX1021WBS01	VX1021WBS01	VX048255.D	10/21/2025	10:06
VPB184-HYD-20251010	Q3371-03	VX048257.D	10/21/2025	10:54
BP-VPB-184-TB-20251010	Q3371-01	VX048258.D	10/21/2025	11:15
BP-VPB-184-EB-20251016	Q3371-02	VX048259.D	10/21/2025	11:35
VPB184-HYD-20251016	Q3371-06	VX048260.D	10/21/2025	11:56
VSTDCCC050EC	VSTDCCC050	VX048278.D	10/21/2025	18:09

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG NO.: Q3371

Lab File ID: VX048232.D Date Analyzed: 10/20/2025

Instrument ID: MSVOA_X Time Analyzed: 12:01

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	124491	5.54	201906	6.75	184494	10.04
UPPER LIMIT	248982	6.04	403812	7.25	368988	10.54
LOWER LIMIT	62245.5	5.04	100953	6.25	92247	9.54
EPA SAMPLE NO.						
BP-VPB-184-GW-915-917	107423	5.54	183824	6.75	169870	10.04
BP-VPB-184-GW-920-922	122446	5.54	210478	6.75	193818	10.04
VX1020WBL01	127705	5.53	221220	6.74	203730	10.04
VX1020WBS01	134660	5.54	221833	6.74	200515	10.04
VX1020WBSD01	114781	5.54	195841	6.75	183563	10.04

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.

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG NO.: Q3371

Lab File ID: VX048232.D Date Analyzed: 10/20/2025

Instrument ID: MSVOA_X Time Analyzed: 12:01

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	92693	12.01				
UPPER LIMIT	185386	12.51				
LOWER LIMIT	46346.5	11.51				
EPA SAMPLE NO.						
BP-VPB-184-GW-915-917	81048	12.01				
BP-VPB-184-GW-920-922	92863	12.01				
VX1020WBL01	106522	12.01				
VX1020WBS01	101575	12.01				
VX1020WBSD01	92655	12.01				

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.

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG NO.: Q3371

Lab File ID: VX048252.D Date Analyzed: 10/21/2025

Instrument ID: MSVOA_X Time Analyzed: 08:43

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	144122	5.53	227103	6.74	197016	10.04
UPPER LIMIT	288244	6.031	454206	7.238	394032	10.537
LOWER LIMIT	72061	5.031	113552	6.238	98508	9.537
EPA SAMPLE NO.						
BP-VPB-184-TB-20251010	104796	5.54	206666	6.75	215259	10.04
BP-VPB-184-EB-20251016	100347	5.54	196629	6.75	210531	10.04
VPB184-HYD-20251010	90641	5.54	171684	6.75	176825	10.04
VPB184-HYD-20251016	105728	5.54	214439	6.75	228141	10.04
VX1021WBL01	121915	5.53	240535	6.75	247603	10.04
VX1021WBS01	141199	5.54	230109	6.74	212342	10.04

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.

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG NO.: Q3371

Lab File ID: VX048252.D Date Analyzed: 10/21/2025

Instrument ID: MSVOA_X Time Analyzed: 08:43

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	96991	12.006				
UPPER LIMIT	193982	12.506				
LOWER LIMIT	48495.5	11.506				
EPA SAMPLE NO.						
BP-VPB-184-TB-20251010	110449	12.01				
BP-VPB-184-EB-20251016	109203	12.01				
VPB184-HYD-20251010	86166	12.01				
VPB184-HYD-20251016	117921	12.01				
VX1021WBL01	126551	12.01				
VX1021WBS01	110789	12.01				

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.

Alliance
TECHNICAL GROUP

SAMPLE DATA

Raw Data: **VX048258.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/10/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	10/16/25
Client Sample ID:	BP-VPB-184-TB-20251010	SDG No.:	Q3371
Lab Sample ID:	Q3371-01	Matrix:	Water
Analytical Method:	8260D Level : LOW	% Solid:	0
Sample Wt/Vol:	5 mL Final Vol: 5000 uL	Test:	VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS										
75-71-8	Dichlorodifluoromethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/21/25 11:15	VX102125
74-87-3	Chloromethane	0.50	U	1	0.32	0.50	1.00	ug/L	10/21/25 11:15	VX102125
75-01-4	Vinyl Chloride	0.75	U	1	0.26	0.75	1.00	ug/L	10/21/25 11:15	VX102125
74-83-9	Bromomethane	3.80	U	1	1.40	3.80	5.00	ug/L	10/21/25 11:15	VX102125
75-00-3	Chloroethane	0.75	U	1	0.47	0.75	1.00	ug/L	10/21/25 11:15	VX102125
75-69-4	Trichlorofluoromethane	0.50	U	1	0.33	0.50	1.00	ug/L	10/21/25 11:15	VX102125
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	1	0.25	0.50	1.00	ug/L	10/21/25 11:15	VX102125
75-35-4	1,1-Dichloroethene	0.75	U	1	0.23	0.75	1.00	ug/L	10/21/25 11:15	VX102125
67-64-1	Acetone	3.80	U	1	1.50	3.80	5.00	ug/L	10/21/25 11:15	VX102125
75-15-0	Carbon Disulfide	0.75	U	1	0.21	0.75	1.00	ug/L	10/21/25 11:15	VX102125
1634-04-4	Methyl tert-butyl Ether	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 11:15	VX102125
79-20-9	Methyl Acetate	0.75	U	1	0.27	0.75	1.00	ug/L	10/21/25 11:15	VX102125
75-09-2	Methylene Chloride	0.50	U	1	0.28	0.50	1.00	ug/L	10/21/25 11:15	VX102125
156-60-5	trans-1,2-Dichloroethene	0.50	U	1	0.23	0.50	1.00	ug/L	10/21/25 11:15	VX102125
75-34-3	1,1-Dichloroethane	0.50	U	1	0.23	0.50	1.00	ug/L	10/21/25 11:15	VX102125
110-82-7	Cyclohexane	2.50	U	1	1.50	2.50	5.00	ug/L	10/21/25 11:15	VX102125
78-93-3	2-Butanone	2.50	U	1	0.98	2.50	5.00	ug/L	10/21/25 11:15	VX102125
56-23-5	Carbon Tetrachloride	0.50	U	1	0.25	0.50	1.00	ug/L	10/21/25 11:15	VX102125
156-59-2	cis-1,2-Dichloroethene	0.75	U	1	0.19	0.75	1.00	ug/L	10/21/25 11:15	VX102125
74-97-5	Bromochloromethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/21/25 11:15	VX102125
67-66-3	Chloroform	0.50	U	1	0.25	0.50	1.00	ug/L	10/21/25 11:15	VX102125
71-55-6	1,1,1-Trichloroethane	0.50	U	1	0.20	0.50	1.00	ug/L	10/21/25 11:15	VX102125
108-87-2	Methylcyclohexane	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 11:15	VX102125
71-43-2	Benzene	0.50	U	1	0.15	0.50	1.00	ug/L	10/21/25 11:15	VX102125
107-06-2	1,2-Dichloroethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/21/25 11:15	VX102125
79-01-6	Trichloroethene	0.75	U	1	0.090	0.75	1.00	ug/L	10/21/25 11:15	VX102125
78-87-5	1,2-Dichloropropane	0.50	U	1	0.20	0.50	1.00	ug/L	10/21/25 11:15	VX102125
75-27-4	Bromodichloromethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/21/25 11:15	VX102125
108-10-1	4-Methyl-2-Pentanone	2.50	U	1	0.68	2.50	5.00	ug/L	10/21/25 11:15	VX102125
108-88-3	Toluene	0.50	U	1	0.14	0.50	1.00	ug/L	10/21/25 11:15	VX102125
10061-02-6	t-1,3-Dichloropropene	0.50	U	1	0.17	0.50	1.00	ug/L	10/21/25 11:15	VX102125
10061-01-5	cis-1,3-Dichloropropene	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 11:15	VX102125
79-00-5	1,1,2-Trichloroethane	0.50	U	1	0.21	0.50	1.00	ug/L	10/21/25 11:15	VX102125
591-78-6	2-Hexanone	2.50	U	1	0.89	2.50	5.00	ug/L	10/21/25 11:15	VX102125
124-48-1	Dibromochloromethane	0.50	U	1	0.18	0.50	1.00	ug/L	10/21/25 11:15	VX102125
106-93-4	1,2-Dibromoethane	0.50	U	1	0.15	0.50	1.00	ug/L	10/21/25 11:15	VX102125
127-18-4	Tetrachloroethene	0.50	U	1	0.23	0.50	1.00	ug/L	10/21/25 11:15	VX102125
108-90-7	Chlorobenzene	0.50	U	1	0.12	0.50	1.00	ug/L	10/21/25 11:15	VX102125
100-41-4	Ethyl Benzene	0.50	U	1	0.13	0.50	1.00	ug/L	10/21/25 11:15	VX102125
179601-23-1	m/p-Xylenes	1.00	U	1	0.24	1.00	2.00	ug/L	10/21/25 11:15	VX102125
95-47-6	o-Xylene	0.50	U	1	0.12	0.50	1.00	ug/L	10/21/25 11:15	VX102125
100-42-5	Styrene	0.50	U	1	0.15	0.50	1.00	ug/L	10/21/25 11:15	VX102125
75-25-2	Bromoform	0.50	U	1	0.19	0.50	1.00	ug/L	10/21/25 11:15	VX102125

Raw Data: **VX048258.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/10/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	10/16/25
Client Sample ID:	BP-VPB-184-TB-20251010	SDG No.:	Q3371
Lab Sample ID:	Q3371-01	Matrix:	Water
Analytical Method:	8260D Level : LOW	% Solid:	0
Sample Wt/Vol:	5 mL Final Vol: 5000 uL	Test:	VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.50	U	1	0.12	0.50	1.00	ug/L	10/21/25 11:15	VX102125
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	1	0.26	0.50	1.00	ug/L	10/21/25 11:15	VX102125
541-73-1	1,3-Dichlorobenzene	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 11:15	VX102125
106-46-7	1,4-Dichlorobenzene	0.50	U	1	0.19	0.50	1.00	ug/L	10/21/25 11:15	VX102125
95-50-1	1,2-Dichlorobenzene	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 11:15	VX102125
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	1	0.53	0.75	1.00	ug/L	10/21/25 11:15	VX102125
120-82-1	1,2,4-Trichlorobenzene	0.50	U	1	0.20	0.50	1.00	ug/L	10/21/25 11:15	VX102125
87-61-6	1,2,3-Trichlorobenzene	0.75	U	1	0.20	0.75	1.00	ug/L	10/21/25 11:15	VX102125
SURROGATES										
17060-07-0	1,2-Dichloroethane-d4	52.4			81 - 118		105%	SPK: 50		
1868-53-7	Dibromofluoromethane	46.8			80 - 119		94%	SPK: 50		
2037-26-5	Toluene-d8	45.6			89 - 112		91%	SPK: 50		
460-00-4	4-Bromofluorobenzene	53.0			85 - 114		106%	SPK: 50		
INTERNAL STANDARDS		**Area Count**								
363-72-4	Pentafluorobenzene	105000								
540-36-3	1,4-Difluorobenzene	207000								
3114-55-4	Chlorobenzene-d5	215000								
3855-82-1	1,4-Dichlorobenzene-d4	110000								
TENTATIVE IDENTIFIED COMPOUNDS										
75-43-4	Dichlorofluoromethane	N.D								

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

Sample Results: **VX048258.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048258.D
Acq On : 21 Oct 2025 11:15
Operator : JC/MD
Sample : Q3371-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-TB-20251010

Quant Time: Oct 24 04:25:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	104796	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	206666	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	215259	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	110449	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	77024	52.422	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 104.840%			
35) Dibromofluoromethane	5.373	113	66061	46.822	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.640%			
50) Toluene-d8	8.635	98	225480	45.594	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 91.180%#			
62) 4-Bromofluorobenzene	11.061	95	99785	53.039	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 106.080%			

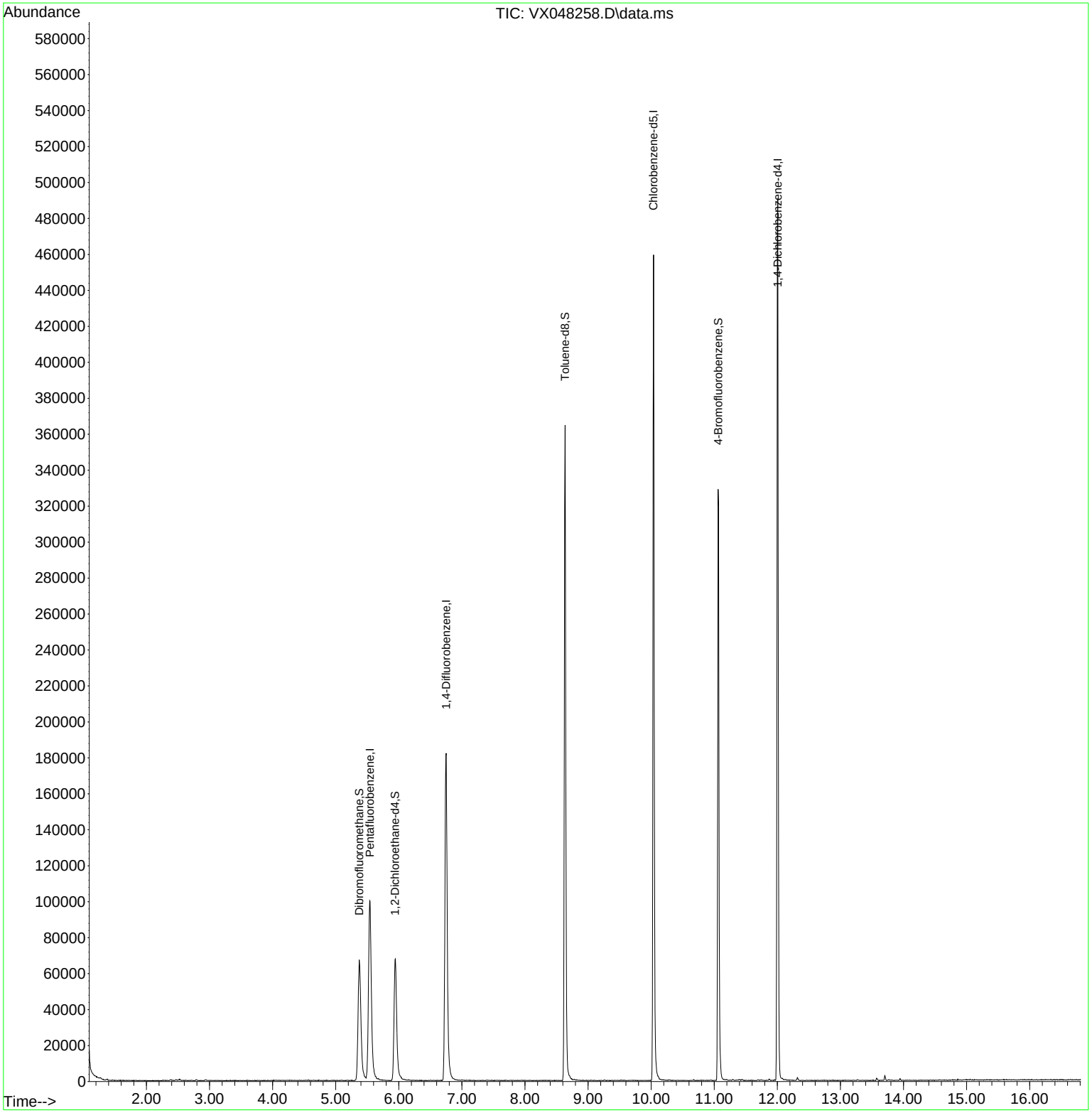
Target Compounds Qvalue

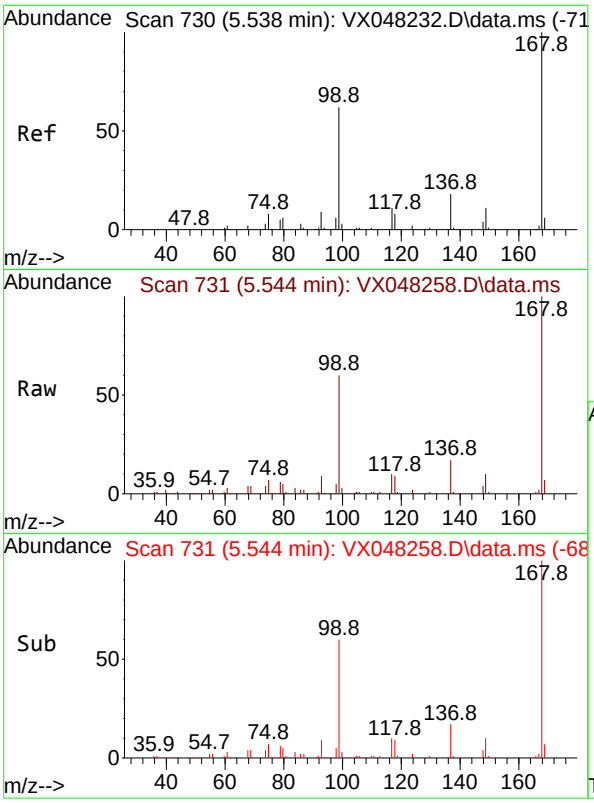
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048258.D
Acq On : 21 Oct 2025 11:15
Operator : JC/MD
Sample : Q3371-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-TB-20251010

Quant Time: Oct 24 04:25:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration



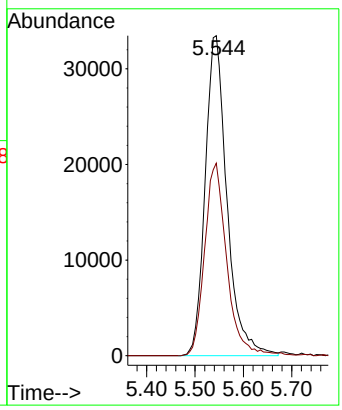


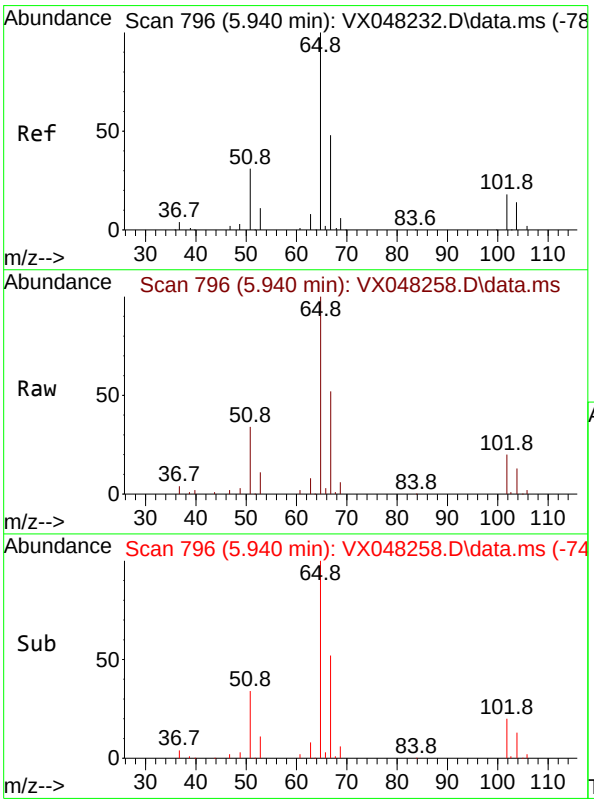
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048258.D
Acq: 21 Oct 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-TB-20251010

Tgt Ion:168 Resp: 104796

Ion	Ratio	Lower	Upper
168	100		
99	60.2	46.4	69.6

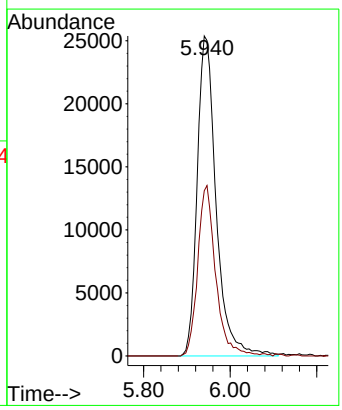


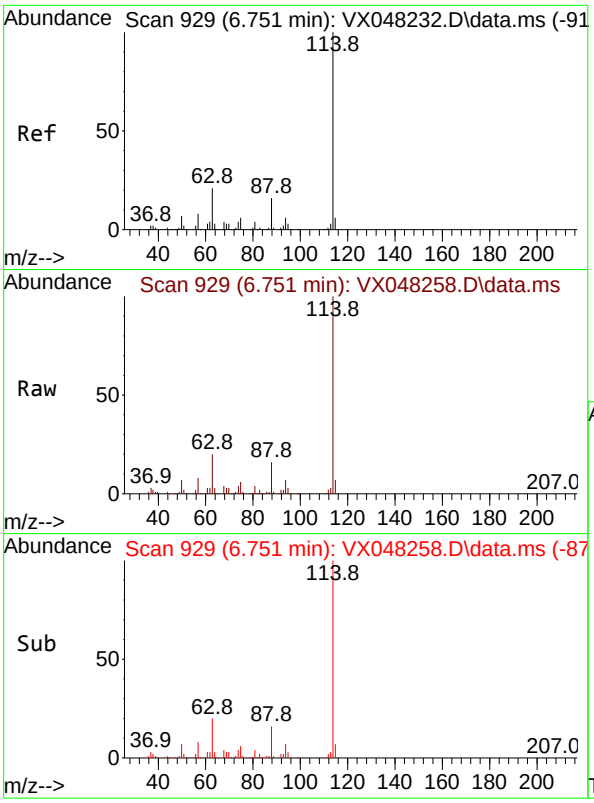


#33
1,2-Dichloroethane-d4
Concen: 52.422 ug/l
RT: 5.940 min Scan# 796
Delta R.T. 0.000 min
Lab File: VX048258.D
Acq: 21 Oct 2025 11:15

Tgt Ion: 65 Resp: 77024

Ion	Ratio	Lower	Upper
65	100		
67	50.4	0.0	105.0



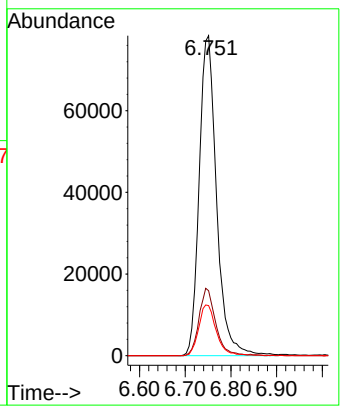


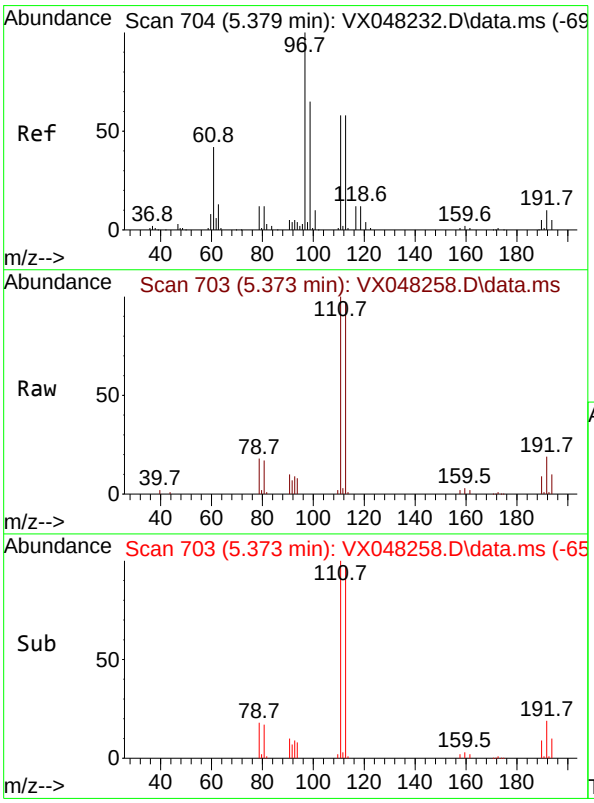
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX048258.D
Acq: 21 Oct 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-TB-20251010

Tgt Ion:114 Resp: 206666

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	43.2
88	15.7	0.0	33.6

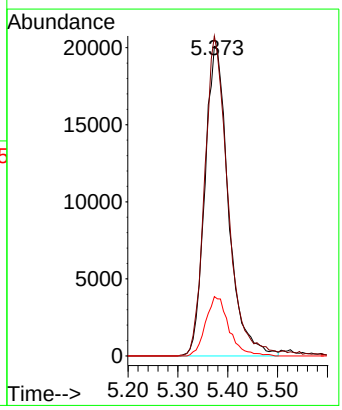


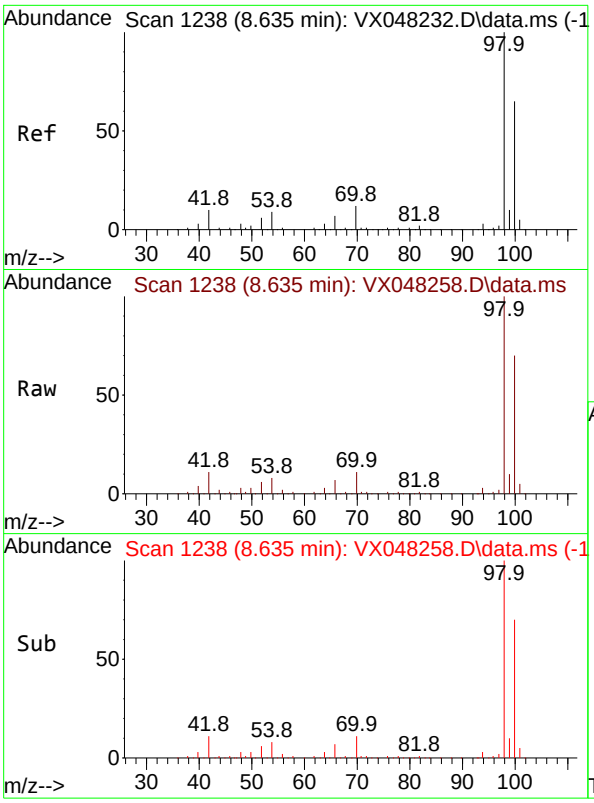


#35
Dibromofluoromethane
Concen: 46.822 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX048258.D
Acq: 21 Oct 2025 11:15

Tgt Ion:113 Resp: 66061

Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.2	123.4
192	18.9	15.1	22.7



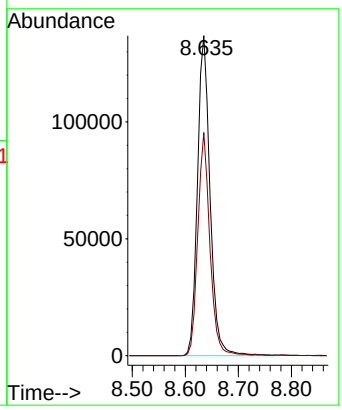


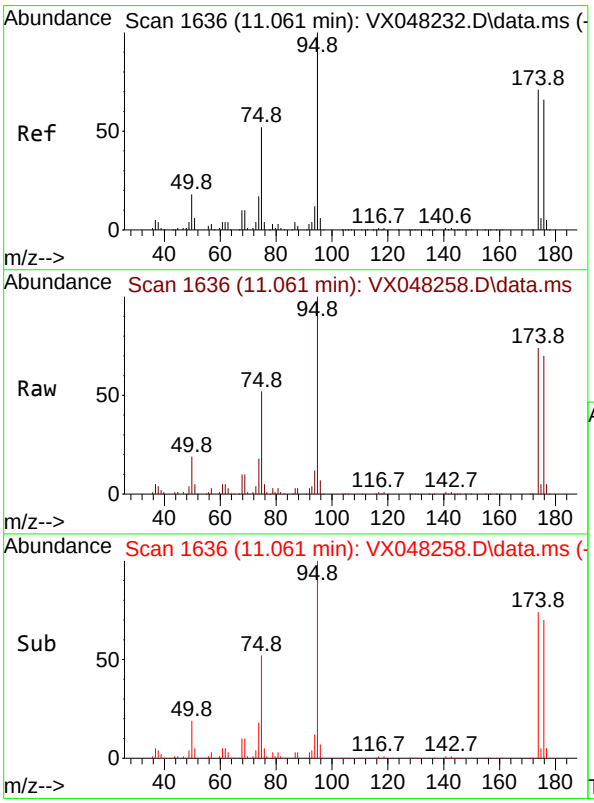
#50
Toluene-d8
Concen: 45.594 ug/l
RT: 8.635 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048258.D
Acq: 21 Oct 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-TB-20251010

Tgt Ion: 98 Resp: 225480

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.0	79.4

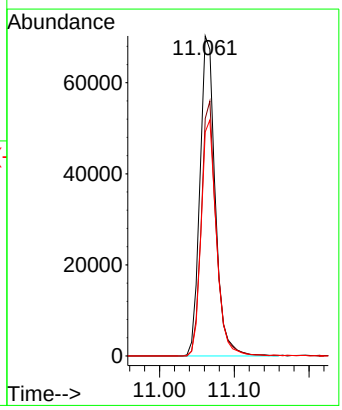


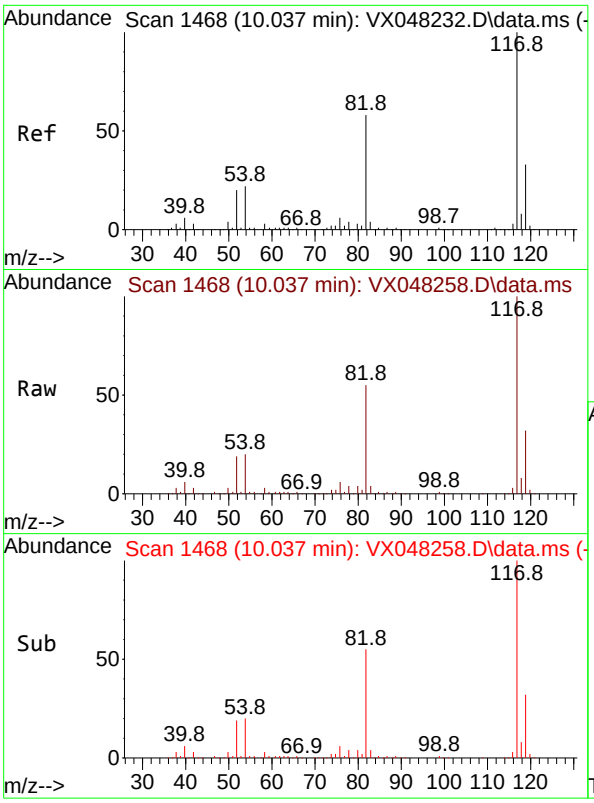


#62
4-Bromofluorobenzene
Concen: 53.039 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX048258.D
Acq: 21 Oct 2025 11:15

Tgt Ion: 95 Resp: 99785

Ion	Ratio	Lower	Upper
95	100		
174	77.8	0.0	147.8
176	74.0	0.0	142.8



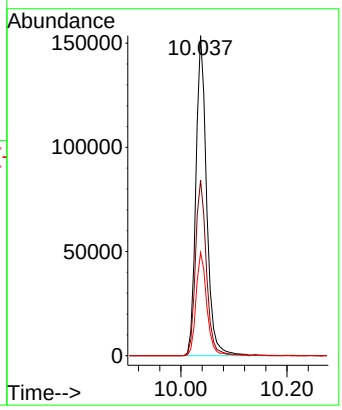


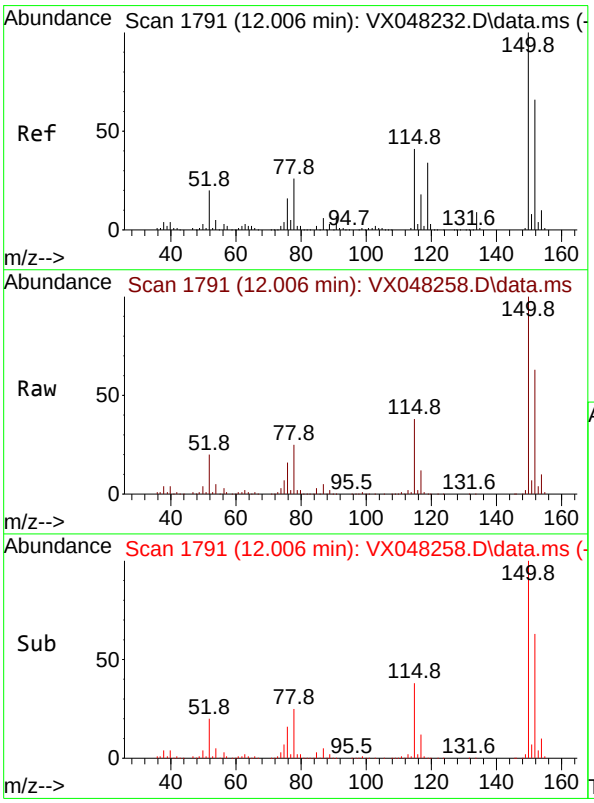
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048258.D
Acq: 21 Oct 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-TB-20251010

Tgt Ion:117 Resp: 215259

Ion	Ratio	Lower	Upper
117	100		
82	54.8	46.5	69.7
119	32.2	25.9	38.9

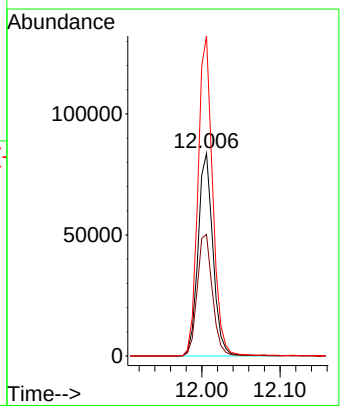




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX048258.D
Acq: 21 Oct 2025 11:15

Tgt Ion:152 Resp: 110449

Ion	Ratio	Lower	Upper
152	100		
115	61.7	43.1	129.4
150	156.0	0.0	353.0



Sample Results: **VX048258.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048258.D
Acq On : 21 Oct 2025 11:15
Operator : JC/MD
Sample : Q3371-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-TB-20251010

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\82X102025W.M
Title : SW846 8260

Signal : TIC: VX048258.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.373	691	703	721	rBV2	67103	215434	32.51%	6.004%
2	5.538	721	730	750	rVB	99345	310493	46.86%	8.654%
3	5.946	783	797	815	rBV	67801	202890	30.62%	5.655%
4	6.751	918	929	946	rBV	182045	477178	72.01%	13.300%
5	8.635	1230	1238	1253	rBV	364473	596925	90.08%	16.637%
6	10.037	1462	1468	1483	rBV	459156	649702	98.04%	18.108%
7	11.061	1631	1636	1650	rBV	328787	472636	71.32%	13.173%
8	12.006	1785	1791	1802	rBV	490400	662657	100.00%	18.469%

Sum of corrected areas: 3587915

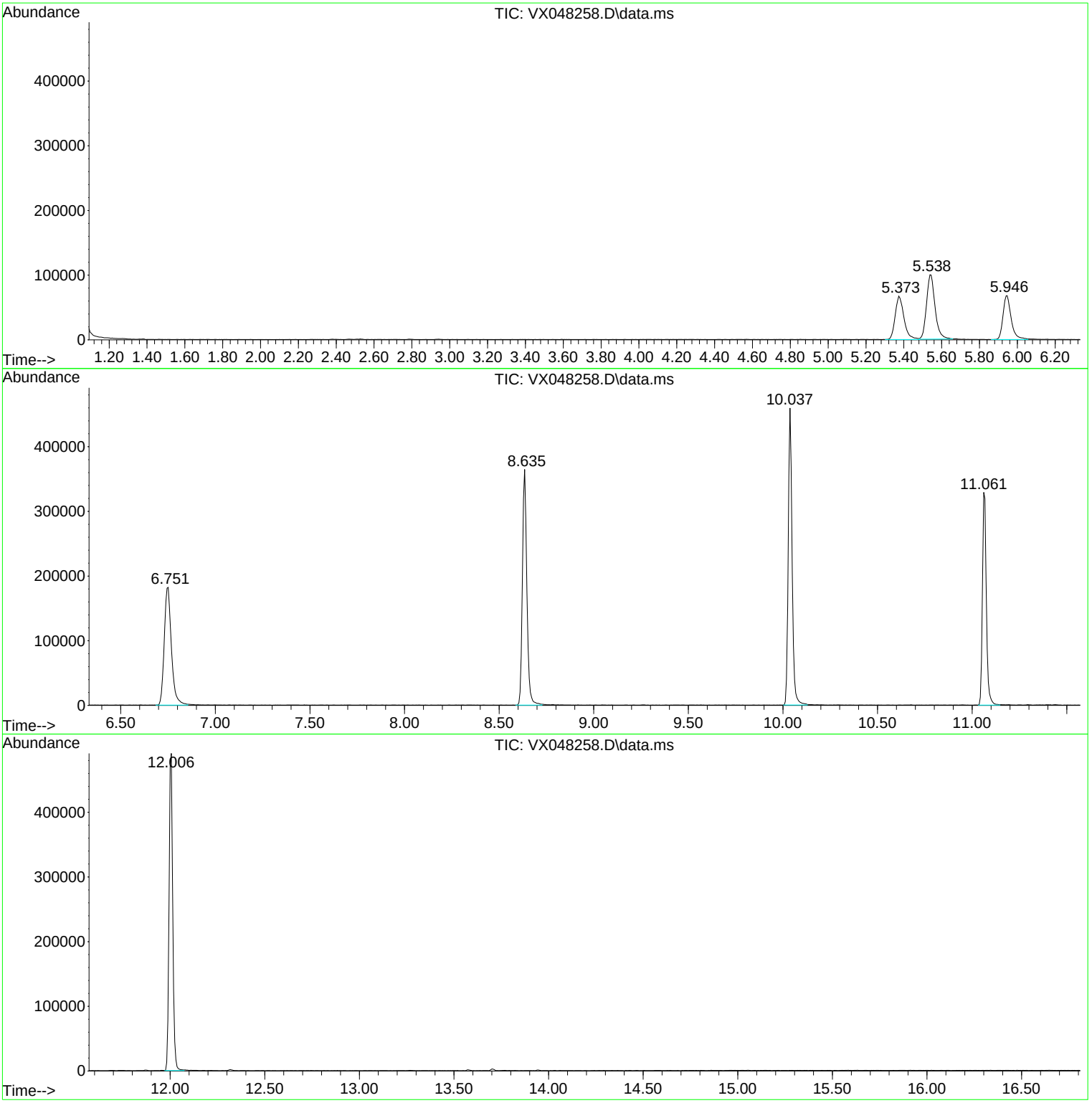
Sample Results: **VX048258.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048258.D
Acq On : 21 Oct 2025 11:15
Operator : JC/MD
Sample : Q3371-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-TB-20251010

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048258.D
Acq On : 21 Oct 2025 11:15
Operator : JC/MD
Sample : Q3371-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-TB-20251010

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Sample Results: **VX048258.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048258.D
Acq On : 21 Oct 2025 11:15
Operator : JC/MD
Sample : Q3371-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-TB-20251010

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260

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

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

Raw Data: **VX048259.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/16/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	10/16/25
Client Sample ID:	BP-VPB-184-EB-20251016	SDG No.:	Q3371
Lab Sample ID:	Q3371-02	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS										
75-71-8	Dichlorodifluoromethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/21/25 11:35	VX102125
74-87-3	Chloromethane	0.50	U	1	0.32	0.50	1.00	ug/L	10/21/25 11:35	VX102125
75-01-4	Vinyl Chloride	0.75	U	1	0.26	0.75	1.00	ug/L	10/21/25 11:35	VX102125
74-83-9	Bromomethane	3.80	U	1	1.40	3.80	5.00	ug/L	10/21/25 11:35	VX102125
75-00-3	Chloroethane	0.75	U	1	0.47	0.75	1.00	ug/L	10/21/25 11:35	VX102125
75-69-4	Trichlorofluoromethane	0.50	U	1	0.33	0.50	1.00	ug/L	10/21/25 11:35	VX102125
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	1	0.25	0.50	1.00	ug/L	10/21/25 11:35	VX102125
75-35-4	1,1-Dichloroethene	0.75	U	1	0.23	0.75	1.00	ug/L	10/21/25 11:35	VX102125
67-64-1	Acetone	6.80		1	1.50	3.80	5.00	ug/L	10/21/25 11:35	VX102125
75-15-0	Carbon Disulfide	0.75	U	1	0.21	0.75	1.00	ug/L	10/21/25 11:35	VX102125
1634-04-4	Methyl tert-butyl Ether	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 11:35	VX102125
79-20-9	Methyl Acetate	0.75	U	1	0.27	0.75	1.00	ug/L	10/21/25 11:35	VX102125
75-09-2	Methylene Chloride	0.50	U	1	0.28	0.50	1.00	ug/L	10/21/25 11:35	VX102125
156-60-5	trans-1,2-Dichloroethene	0.50	U	1	0.23	0.50	1.00	ug/L	10/21/25 11:35	VX102125
75-34-3	1,1-Dichloroethane	0.50	U	1	0.23	0.50	1.00	ug/L	10/21/25 11:35	VX102125
110-82-7	Cyclohexane	2.50	U	1	1.50	2.50	5.00	ug/L	10/21/25 11:35	VX102125
78-93-3	2-Butanone	2.50	U	1	0.98	2.50	5.00	ug/L	10/21/25 11:35	VX102125
56-23-5	Carbon Tetrachloride	0.50	U	1	0.25	0.50	1.00	ug/L	10/21/25 11:35	VX102125
156-59-2	cis-1,2-Dichloroethene	0.75	U	1	0.19	0.75	1.00	ug/L	10/21/25 11:35	VX102125
74-97-5	Bromochloromethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/21/25 11:35	VX102125
67-66-3	Chloroform	0.50	U	1	0.25	0.50	1.00	ug/L	10/21/25 11:35	VX102125
71-55-6	1,1,1-Trichloroethane	0.50	U	1	0.20	0.50	1.00	ug/L	10/21/25 11:35	VX102125
108-87-2	Methylcyclohexane	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 11:35	VX102125
71-43-2	Benzene	0.50	U	1	0.15	0.50	1.00	ug/L	10/21/25 11:35	VX102125
107-06-2	1,2-Dichloroethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/21/25 11:35	VX102125
79-01-6	Trichloroethene	0.75	U	1	0.090	0.75	1.00	ug/L	10/21/25 11:35	VX102125
78-87-5	1,2-Dichloropropane	0.50	U	1	0.20	0.50	1.00	ug/L	10/21/25 11:35	VX102125
75-27-4	Bromodichloromethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/21/25 11:35	VX102125
108-10-1	4-Methyl-2-Pentanone	2.50	U	1	0.68	2.50	5.00	ug/L	10/21/25 11:35	VX102125
108-88-3	Toluene	0.50	U	1	0.14	0.50	1.00	ug/L	10/21/25 11:35	VX102125
10061-02-6	t-1,3-Dichloropropene	0.50	U	1	0.17	0.50	1.00	ug/L	10/21/25 11:35	VX102125
10061-01-5	cis-1,3-Dichloropropene	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 11:35	VX102125
79-00-5	1,1,2-Trichloroethane	0.50	U	1	0.21	0.50	1.00	ug/L	10/21/25 11:35	VX102125
591-78-6	2-Hexanone	2.50	U	1	0.89	2.50	5.00	ug/L	10/21/25 11:35	VX102125
124-48-1	Dibromochloromethane	0.50	U	1	0.18	0.50	1.00	ug/L	10/21/25 11:35	VX102125
106-93-4	1,2-Dibromoethane	0.50	U	1	0.15	0.50	1.00	ug/L	10/21/25 11:35	VX102125
127-18-4	Tetrachloroethene	0.50	U	1	0.23	0.50	1.00	ug/L	10/21/25 11:35	VX102125
108-90-7	Chlorobenzene	0.50	U	1	0.12	0.50	1.00	ug/L	10/21/25 11:35	VX102125
100-41-4	Ethyl Benzene	0.50	U	1	0.13	0.50	1.00	ug/L	10/21/25 11:35	VX102125
179601-23-1	m/p-Xylenes	1.00	U	1	0.24	1.00	2.00	ug/L	10/21/25 11:35	VX102125
95-47-6	o-Xylene	0.50	U	1	0.12	0.50	1.00	ug/L	10/21/25 11:35	VX102125
100-42-5	Styrene	0.50	U	1	0.15	0.50	1.00	ug/L	10/21/25 11:35	VX102125
75-25-2	Bromoform	0.50	U	1	0.19	0.50	1.00	ug/L	10/21/25 11:35	VX102125

Raw Data: **VX048259.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/16/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	10/16/25
Client Sample ID:	BP-VPB-184-EB-20251016	SDG No.:	Q3371
Lab Sample ID:	Q3371-02	Matrix:	Water
Analytical Method:	8260D Level : LOW	% Solid:	0
Sample Wt/Vol:	5 mL Final Vol: 5000 uL	Test:	VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.50	U	1	0.12	0.50	1.00	ug/L	10/21/25 11:35	VX102125
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	1	0.26	0.50	1.00	ug/L	10/21/25 11:35	VX102125
541-73-1	1,3-Dichlorobenzene	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 11:35	VX102125
106-46-7	1,4-Dichlorobenzene	0.50	U	1	0.19	0.50	1.00	ug/L	10/21/25 11:35	VX102125
95-50-1	1,2-Dichlorobenzene	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 11:35	VX102125
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	1	0.53	0.75	1.00	ug/L	10/21/25 11:35	VX102125
120-82-1	1,2,4-Trichlorobenzene	0.50	U	1	0.20	0.50	1.00	ug/L	10/21/25 11:35	VX102125
87-61-6	1,2,3-Trichlorobenzene	0.75	U	1	0.20	0.75	1.00	ug/L	10/21/25 11:35	VX102125
SURROGATES										
17060-07-0	1,2-Dichloroethane-d4	54.7			81 - 118		109%	SPK: 50		
1868-53-7	Dibromofluoromethane	49.5			80 - 119		99%	SPK: 50		
2037-26-5	Toluene-d8	47.2			89 - 112		94%	SPK: 50		
460-00-4	4-Bromofluorobenzene	55.2			85 - 114		110%	SPK: 50		
INTERNAL STANDARDS		**Area Count**								
363-72-4	Pentafluorobenzene	100000								
540-36-3	1,4-Difluorobenzene	197000								
3114-55-4	Chlorobenzene-d5	211000								
3855-82-1	1,4-Dichlorobenzene-d4	109000								
TENTATIVE IDENTIFIED COMPOUNDS										
75-43-4	Dichlorofluoromethane	N.D								

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\VX102125\
Data File : VX048259.D
Acq On : 21 Oct 2025 11:35
Operator : JC/MD
Sample : Q3371-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20251016

Quant Time: Oct 24 04:26:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

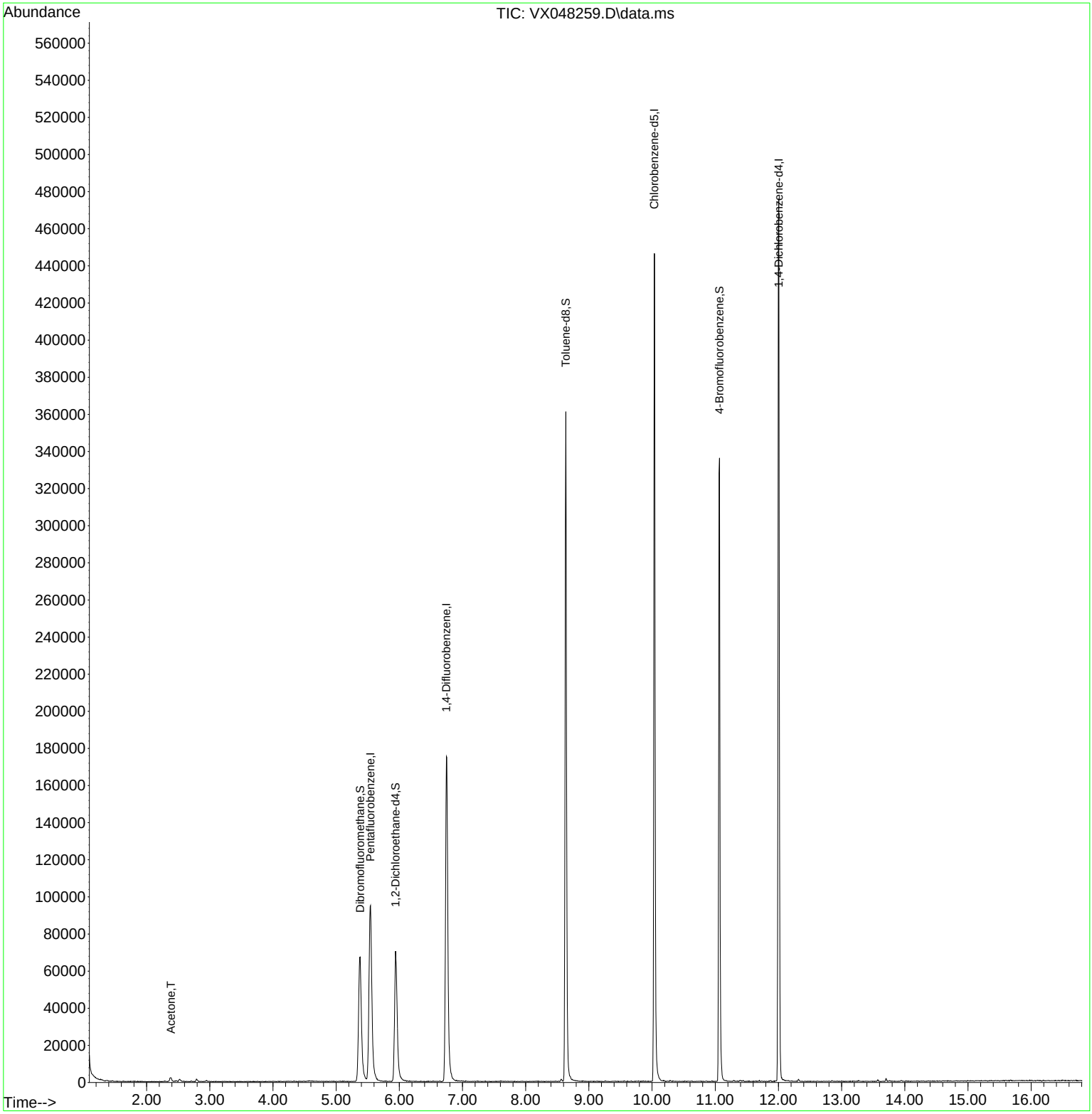
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	100347	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	196629	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	210531	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	109203	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	76981	54.715	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 109.440%			
35) Dibromofluoromethane	5.379	113	66409	49.471	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.940%			
50) Toluene-d8	8.634	98	222231	47.231	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 94.460%			
62) 4-Bromofluorobenzene	11.067	95	98871	55.236	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 110.480%			
Target Compounds						Qvalue
16) Acetone	2.386	43	3267	6.769	ug/l	91

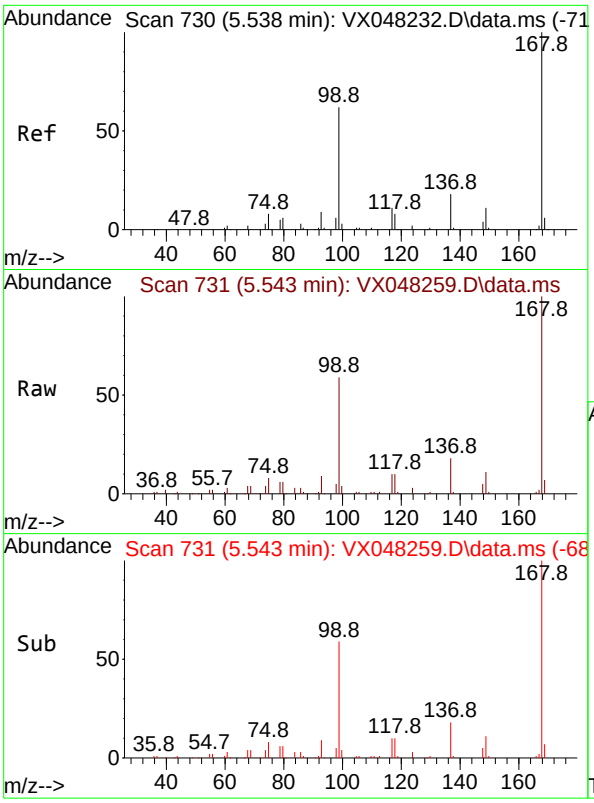
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048259.D
Acq On : 21 Oct 2025 11:35
Operator : JC/MD
Sample : Q3371-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20251016

Quant Time: Oct 24 04:26:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration



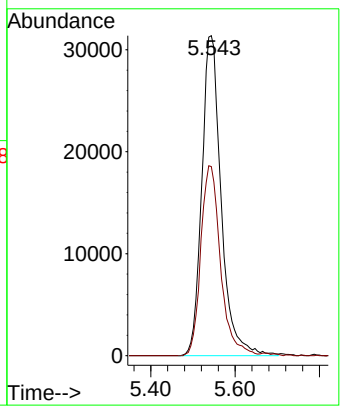


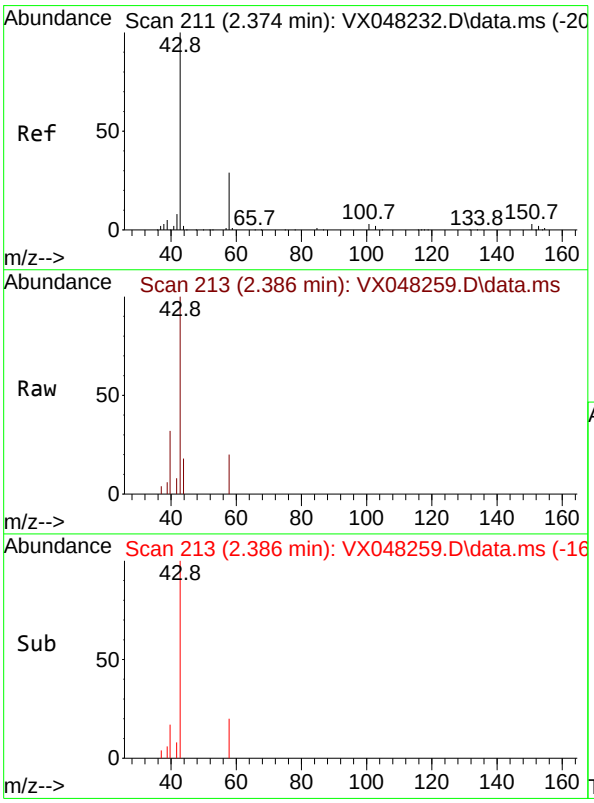
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048259.D
Acq: 21 Oct 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20251016

Tgt Ion:168 Resp: 100347

Ion	Ratio	Lower	Upper
168	100		
99	59.1	46.4	69.6

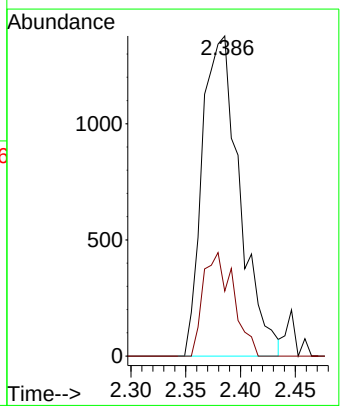


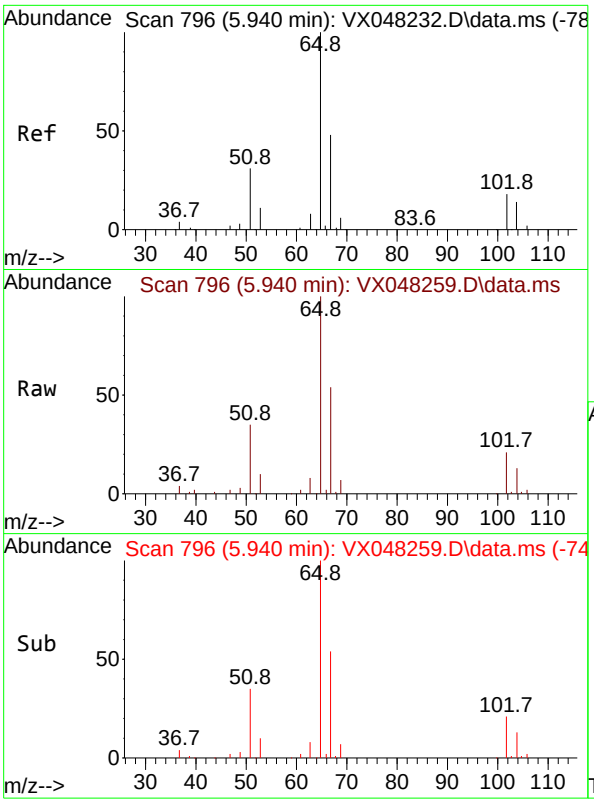


#16
Acetone
Concen: 6.769 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.012 min
Lab File: VX048259.D
Acq: 21 Oct 2025 11:35

Tgt Ion: 43 Resp: 3267

Ion	Ratio	Lower	Upper
43	100		
58	24.5	23.4	35.2



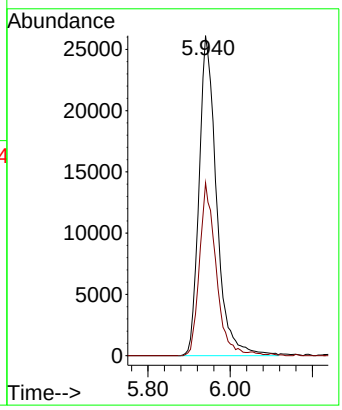


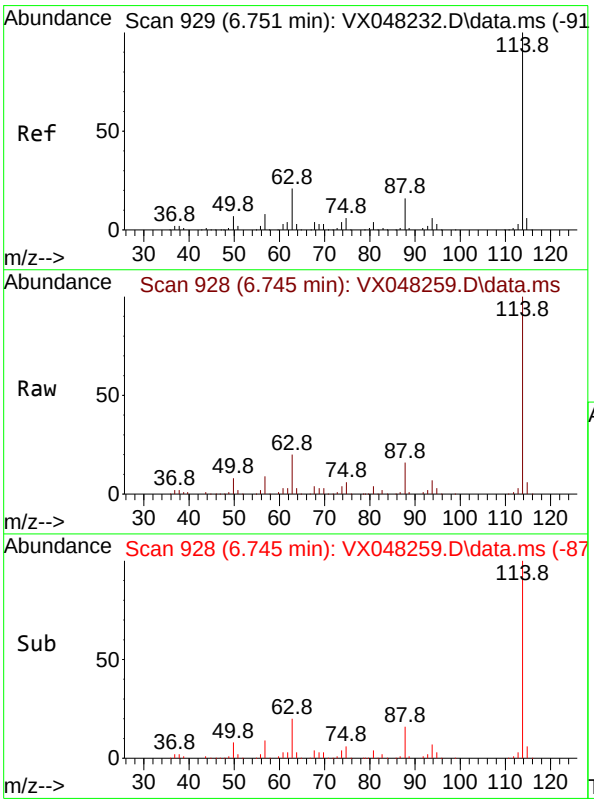
#33
1,2-Dichloroethane-d4
Concen: 54.715 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048259.D
Acq: 21 Oct 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20251016

Tgt Ion: 65 Resp: 76981

Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	105.0

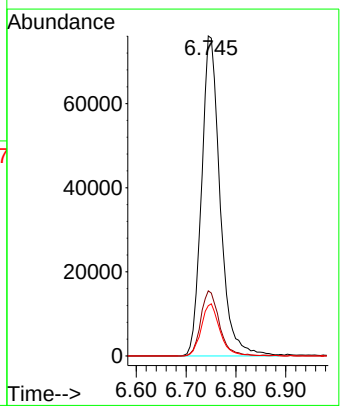


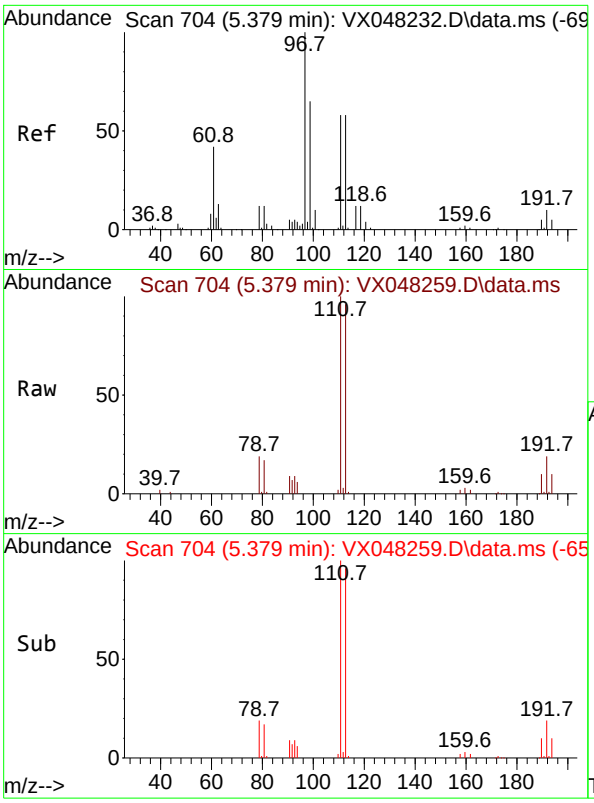


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX048259.D
Acq: 21 Oct 2025 11:35

Tgt Ion:114 Resp: 196629

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	43.2
88	15.7	0.0	33.6



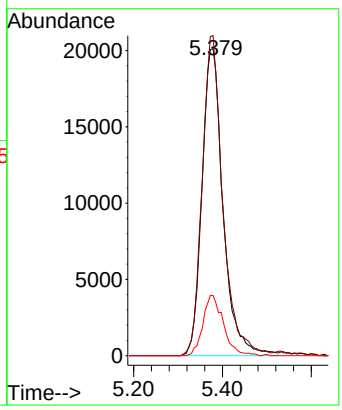


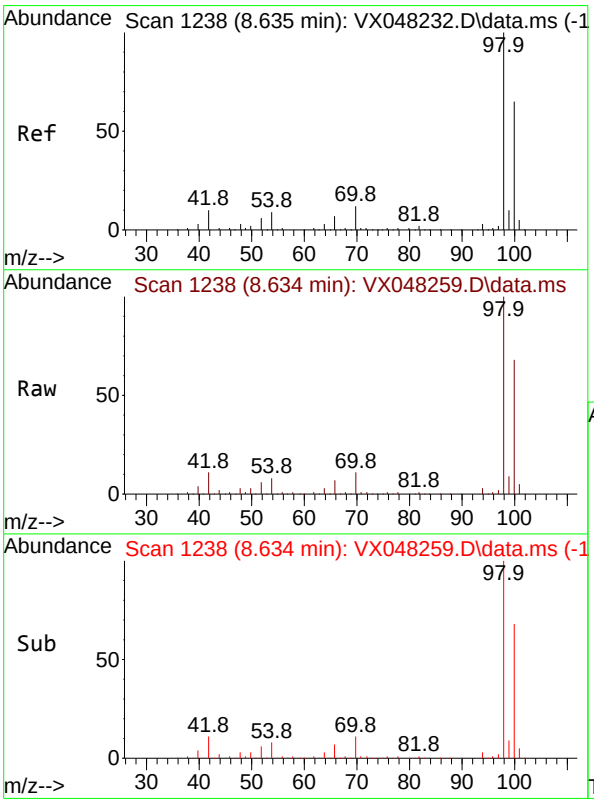
#35
Dibromofluoromethane
Concen: 49.471 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048259.D
Acq: 21 Oct 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20251016

Tgt Ion:113 Resp: 66409

Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.2	123.4
192	19.1	15.1	22.7

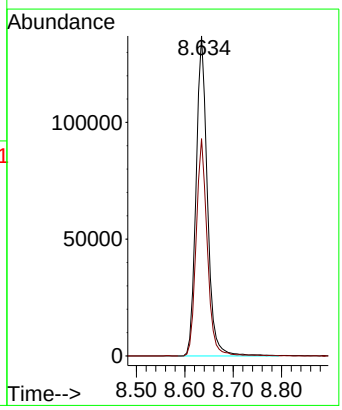


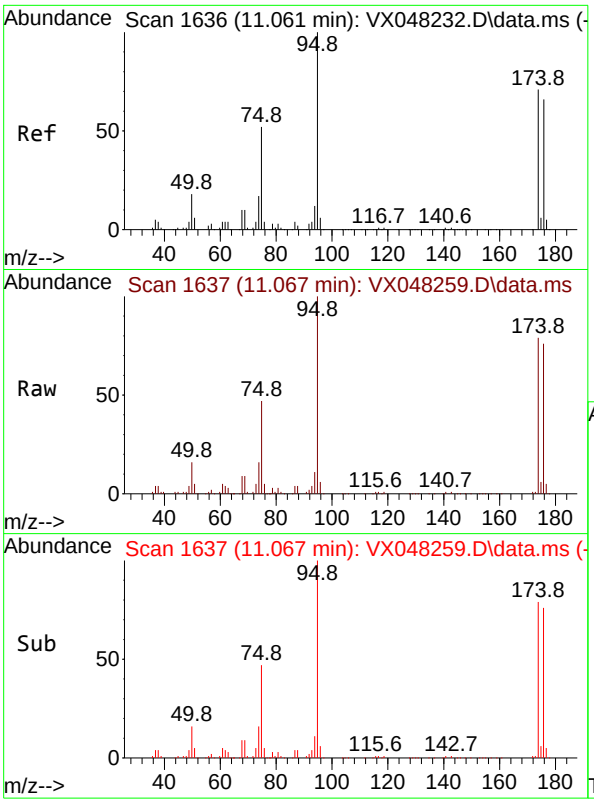


#50
Toluene-d8
Concen: 47.231 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048259.D
Acq: 21 Oct 2025 11:35

Tgt Ion: 98 Resp: 222231

Ion	Ratio	Lower	Upper
98	100		
100	67.1	53.0	79.4



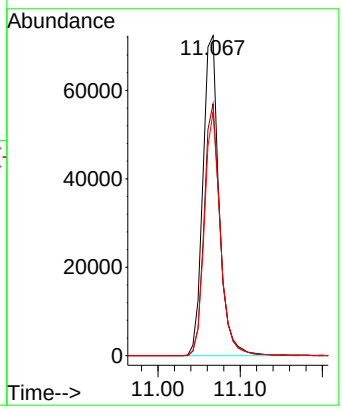


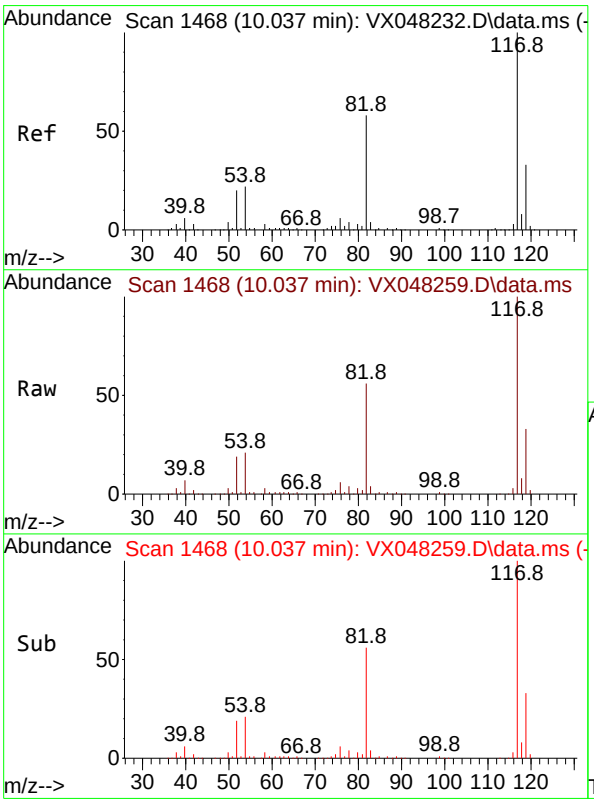
#62
4-Bromofluorobenzene
Concen: 55.236 ug/l
RT: 11.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048259.D
Acq: 21 Oct 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20251016

Tgt Ion: 95 Resp: 98871

Ion	Ratio	Lower	Upper
95	100		
174	78.2	0.0	147.8
176	75.5	0.0	142.8

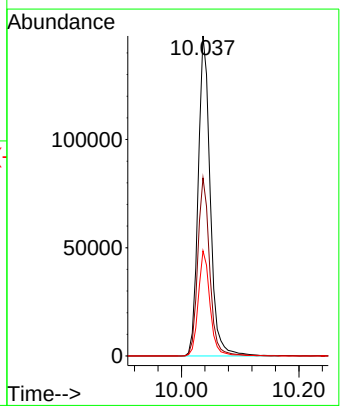


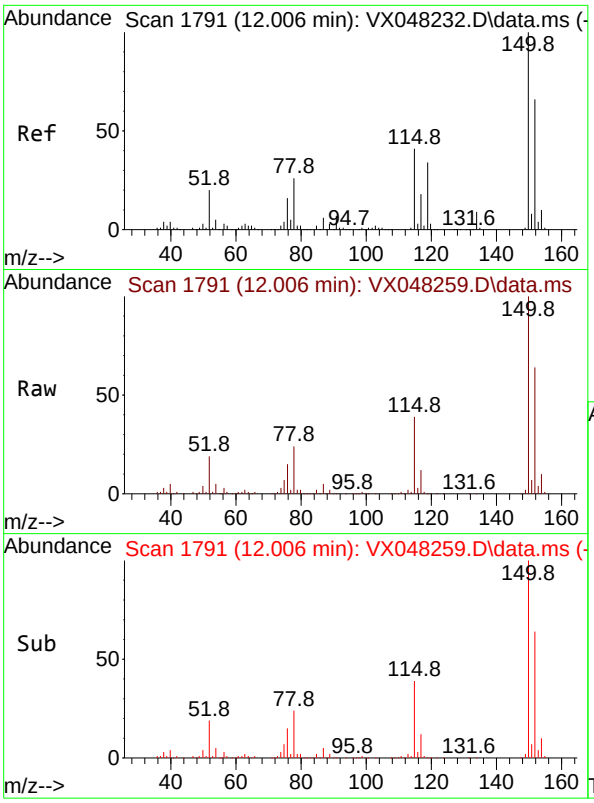


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048259.D
Acq: 21 Oct 2025 11:35

Tgt Ion:117 Resp: 210531

Ion	Ratio	Lower	Upper
117	100		
82	55.7	46.5	69.7
119	32.8	25.9	38.9



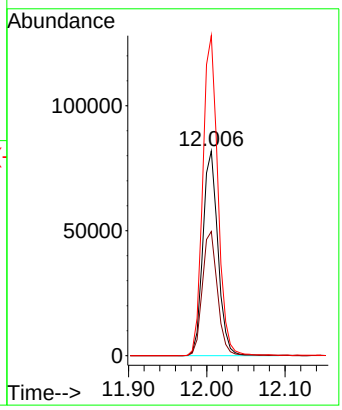


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048259.D
Acq: 21 Oct 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20251016

Tgt Ion:152 Resp: 109203

Ion	Ratio	Lower	Upper
152	100		
115	61.0	43.1	129.4
150	157.1	0.0	353.0



Sample Results: **VX048259.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048259.D
Acq On : 21 Oct 2025 11:35
Operator : JC/MD
Sample : Q3371-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20251016

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\82X102025W.M
Title : SW846 8260

Signal : TIC: VX048259.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	691	704	721	rBV2	67078	215978	33.12%	6.147%
2	5.543	721	731	749	rVB2	94156	295920	45.37%	8.423%
3	5.940	786	796	816	rBV2	70204	203928	31.27%	5.804%
4	6.745	915	928	953	rBV	175238	460538	70.61%	13.108%
5	8.634	1231	1238	1254	rBV	360686	584258	89.58%	16.630%
6	10.037	1462	1468	1487	rBV	445893	631764	96.87%	17.982%
7	11.067	1631	1637	1650	rBV	335818	468703	71.86%	13.341%
8	12.006	1785	1791	1802	rBV	475306	652201	100.00%	18.564%

Sum of corrected areas: 3513290

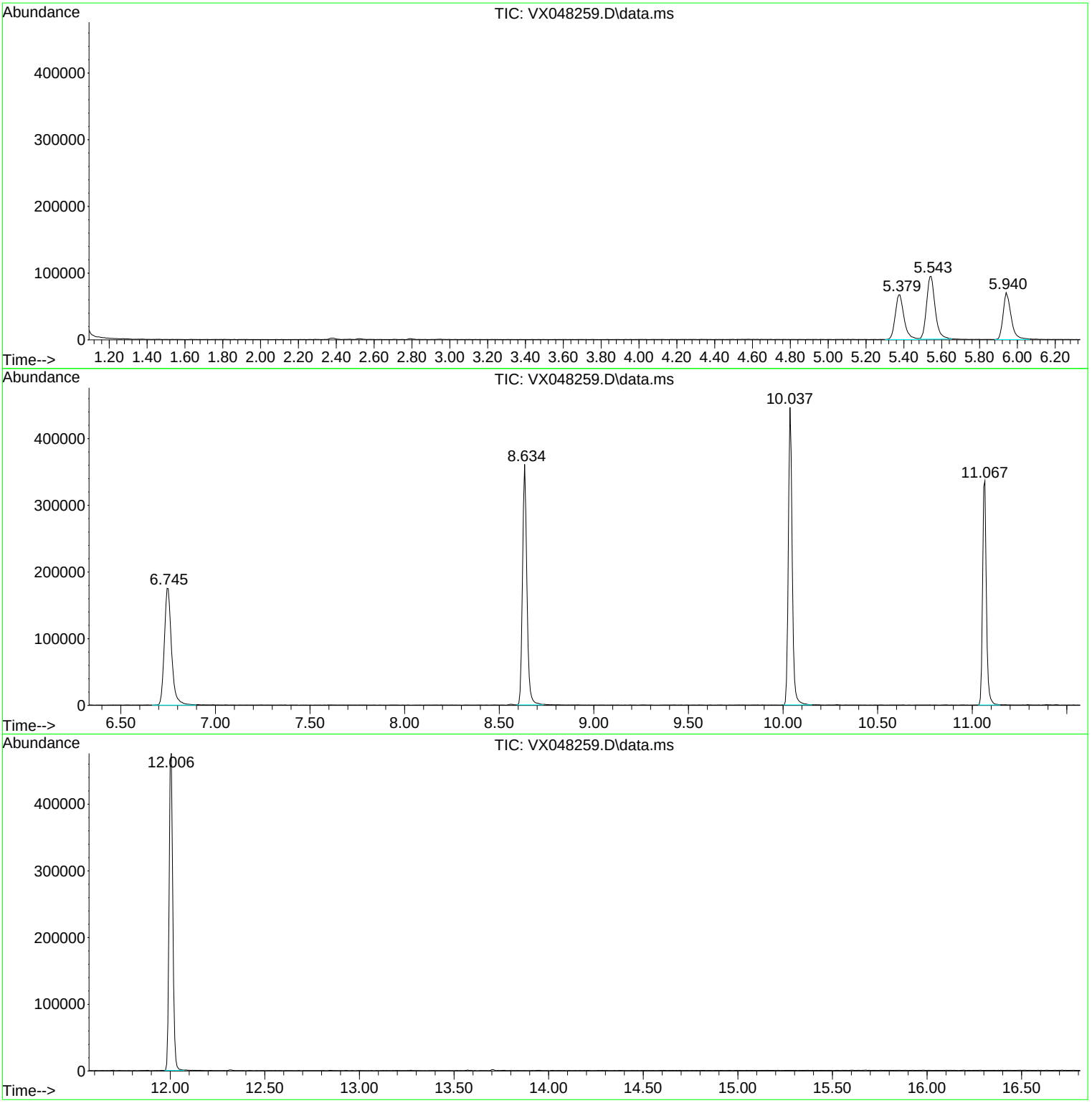
Sample Results: **VX048259.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048259.D
Acq On : 21 Oct 2025 11:35
Operator : JC/MD
Sample : Q3371-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20251016

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048259.D
Acq On : 21 Oct 2025 11:35
Operator : JC/MD
Sample : Q3371-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20251016

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.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\VX102125\
Data File : VX048259.D
Acq On : 21 Oct 2025 11:35
Operator : JC/MD
Sample : Q3371-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20251016

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260

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

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

Raw Data: **VX048257.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/10/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	10/16/25
Client Sample ID:	VPB184-HYD-20251010	SDG No.:	Q3371
Lab Sample ID:	Q3371-03	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS										
75-71-8	Dichlorodifluoromethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/21/25 10:54	VX102125
74-87-3	Chloromethane	0.50	U	1	0.32	0.50	1.00	ug/L	10/21/25 10:54	VX102125
75-01-4	Vinyl Chloride	0.75	U	1	0.26	0.75	1.00	ug/L	10/21/25 10:54	VX102125
74-83-9	Bromomethane	3.80	U	1	1.40	3.80	5.00	ug/L	10/21/25 10:54	VX102125
75-00-3	Chloroethane	0.75	U	1	0.47	0.75	1.00	ug/L	10/21/25 10:54	VX102125
75-69-4	Trichlorofluoromethane	0.50	U	1	0.33	0.50	1.00	ug/L	10/21/25 10:54	VX102125
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	1	0.25	0.50	1.00	ug/L	10/21/25 10:54	VX102125
75-35-4	1,1-Dichloroethene	0.75	U	1	0.23	0.75	1.00	ug/L	10/21/25 10:54	VX102125
67-64-1	Acetone	3.80	U	1	1.50	3.80	5.00	ug/L	10/21/25 10:54	VX102125
75-15-0	Carbon Disulfide	0.75	U	1	0.21	0.75	1.00	ug/L	10/21/25 10:54	VX102125
1634-04-4	Methyl tert-butyl Ether	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 10:54	VX102125
79-20-9	Methyl Acetate	0.75	U	1	0.27	0.75	1.00	ug/L	10/21/25 10:54	VX102125
75-09-2	Methylene Chloride	0.50	U	1	0.28	0.50	1.00	ug/L	10/21/25 10:54	VX102125
156-60-5	trans-1,2-Dichloroethene	0.50	U	1	0.23	0.50	1.00	ug/L	10/21/25 10:54	VX102125
75-34-3	1,1-Dichloroethane	0.50	U	1	0.23	0.50	1.00	ug/L	10/21/25 10:54	VX102125
110-82-7	Cyclohexane	2.50	U	1	1.50	2.50	5.00	ug/L	10/21/25 10:54	VX102125
78-93-3	2-Butanone	2.50	U	1	0.98	2.50	5.00	ug/L	10/21/25 10:54	VX102125
56-23-5	Carbon Tetrachloride	0.50	U	1	0.25	0.50	1.00	ug/L	10/21/25 10:54	VX102125
156-59-2	cis-1,2-Dichloroethene	0.75	U	1	0.19	0.75	1.00	ug/L	10/21/25 10:54	VX102125
74-97-5	Bromochloromethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/21/25 10:54	VX102125
67-66-3	Chloroform	0.50	U	1	0.25	0.50	1.00	ug/L	10/21/25 10:54	VX102125
71-55-6	1,1,1-Trichloroethane	0.50	U	1	0.20	0.50	1.00	ug/L	10/21/25 10:54	VX102125
108-87-2	Methylcyclohexane	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 10:54	VX102125
71-43-2	Benzene	0.50	U	1	0.15	0.50	1.00	ug/L	10/21/25 10:54	VX102125
107-06-2	1,2-Dichloroethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/21/25 10:54	VX102125
79-01-6	Trichloroethene	0.75	U	1	0.090	0.75	1.00	ug/L	10/21/25 10:54	VX102125
78-87-5	1,2-Dichloropropane	0.50	U	1	0.20	0.50	1.00	ug/L	10/21/25 10:54	VX102125
75-27-4	Bromodichloromethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/21/25 10:54	VX102125
108-10-1	4-Methyl-2-Pentanone	2.50	U	1	0.68	2.50	5.00	ug/L	10/21/25 10:54	VX102125
108-88-3	Toluene	0.50	U	1	0.14	0.50	1.00	ug/L	10/21/25 10:54	VX102125
10061-02-6	t-1,3-Dichloropropene	0.50	U	1	0.17	0.50	1.00	ug/L	10/21/25 10:54	VX102125
10061-01-5	cis-1,3-Dichloropropene	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 10:54	VX102125
79-00-5	1,1,2-Trichloroethane	0.50	U	1	0.21	0.50	1.00	ug/L	10/21/25 10:54	VX102125
591-78-6	2-Hexanone	2.50	U	1	0.89	2.50	5.00	ug/L	10/21/25 10:54	VX102125
124-48-1	Dibromochloromethane	0.50	U	1	0.18	0.50	1.00	ug/L	10/21/25 10:54	VX102125
106-93-4	1,2-Dibromoethane	0.50	U	1	0.15	0.50	1.00	ug/L	10/21/25 10:54	VX102125
127-18-4	Tetrachloroethene	0.50	U	1	0.23	0.50	1.00	ug/L	10/21/25 10:54	VX102125
108-90-7	Chlorobenzene	0.50	U	1	0.12	0.50	1.00	ug/L	10/21/25 10:54	VX102125
100-41-4	Ethyl Benzene	0.50	U	1	0.13	0.50	1.00	ug/L	10/21/25 10:54	VX102125
179601-23-1	m/p-Xylenes	1.00	U	1	0.24	1.00	2.00	ug/L	10/21/25 10:54	VX102125
95-47-6	o-Xylene	0.50	U	1	0.12	0.50	1.00	ug/L	10/21/25 10:54	VX102125
100-42-5	Styrene	0.50	U	1	0.15	0.50	1.00	ug/L	10/21/25 10:54	VX102125
75-25-2	Bromoform	0.50	U	1	0.19	0.50	1.00	ug/L	10/21/25 10:54	VX102125

Raw Data: **VX048257.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/10/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	10/16/25
Client Sample ID:	VPB184-HYD-20251010	SDG No.:	Q3371
Lab Sample ID:	Q3371-03	Matrix:	Water
Analytical Method:	8260D Level : LOW	% Solid:	0
Sample Wt/Vol:	5 mL Final Vol: 5000 uL	Test:	VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.50	U	1	0.12	0.50	1.00	ug/L	10/21/25 10:54	VX102125
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	1	0.26	0.50	1.00	ug/L	10/21/25 10:54	VX102125
541-73-1	1,3-Dichlorobenzene	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 10:54	VX102125
106-46-7	1,4-Dichlorobenzene	0.50	U	1	0.19	0.50	1.00	ug/L	10/21/25 10:54	VX102125
95-50-1	1,2-Dichlorobenzene	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 10:54	VX102125
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	1	0.53	0.75	1.00	ug/L	10/21/25 10:54	VX102125
120-82-1	1,2,4-Trichlorobenzene	0.50	U	1	0.20	0.50	1.00	ug/L	10/21/25 10:54	VX102125
87-61-6	1,2,3-Trichlorobenzene	0.75	U	1	0.20	0.75	1.00	ug/L	10/21/25 10:54	VX102125
SURROGATES										
17060-07-0	1,2-Dichloroethane-d4	48.4			81 - 118		97%	SPK: 50		
1868-53-7	Dibromofluoromethane	46.4			80 - 119		93%	SPK: 50		
2037-26-5	Toluene-d8	44.9			89 - 112		90%	SPK: 50		
460-00-4	4-Bromofluorobenzene	50.7			85 - 114		101%	SPK: 50		
INTERNAL STANDARDS		**Area Count**								
363-72-4	Pentafluorobenzene	90600								
540-36-3	1,4-Difluorobenzene	172000								
3114-55-4	Chlorobenzene-d5	177000								
3855-82-1	1,4-Dichlorobenzene-d4	86200								
TENTATIVE IDENTIFIED COMPOUNDS										
75-43-4	Dichlorofluoromethane	N.D								

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\VX102125\
Data File : VX048257.D
Acq On : 21 Oct 2025 10:54
Operator : JC/MD
Sample : Q3371-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251010

Quant Time: Oct 24 04:25:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	90641	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	171684	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	176825	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	86166	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	61446	48.350	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 96.700%			
35) Dibromofluoromethane	5.373	113	54394	46.408	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 92.820%			
50) Toluene-d8	8.634	98	184640	44.944	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 89.880%#			
62) 4-Bromofluorobenzene	11.061	95	79196	50.673	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 101.340%			

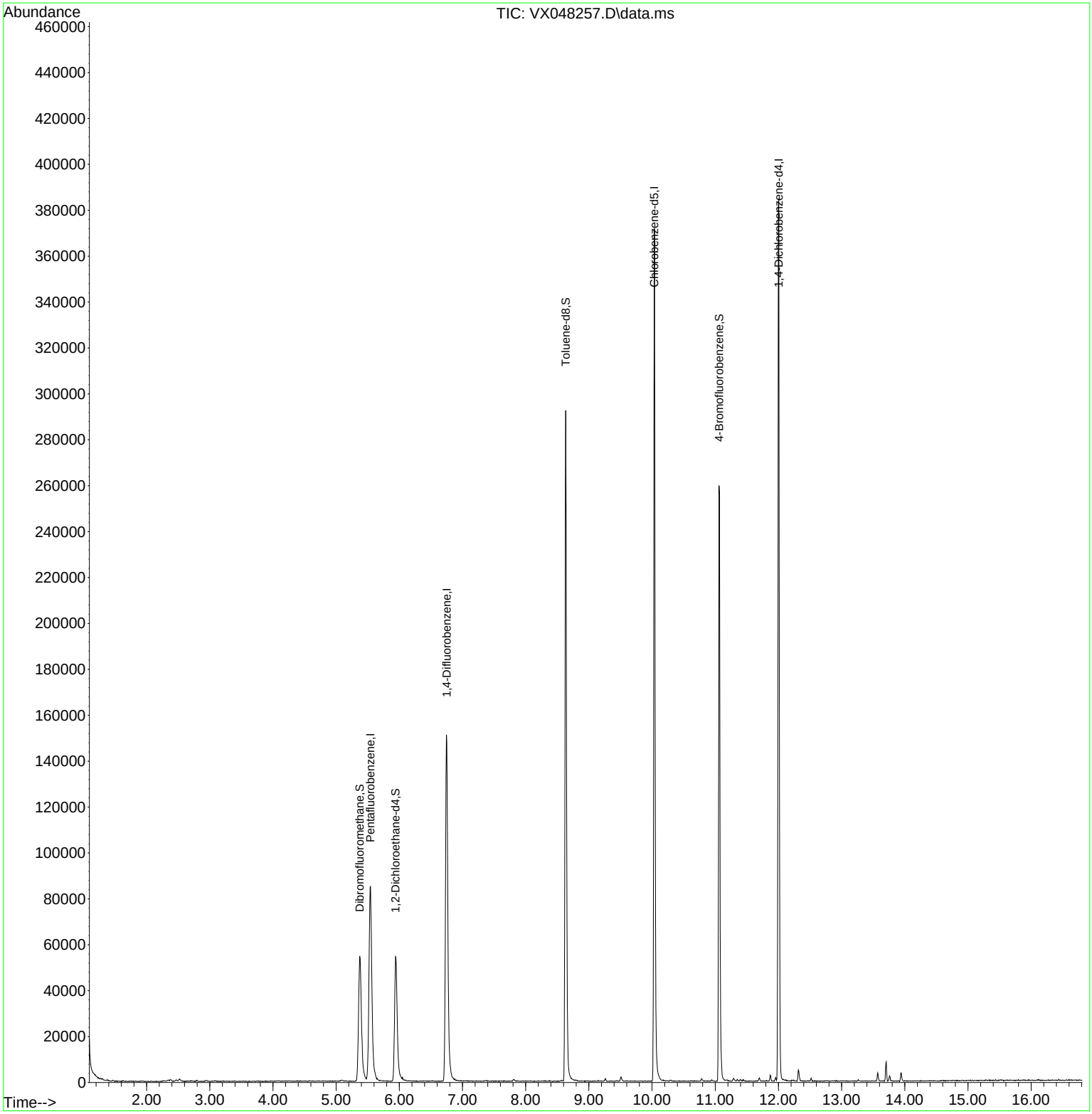
Target Compounds Qvalue

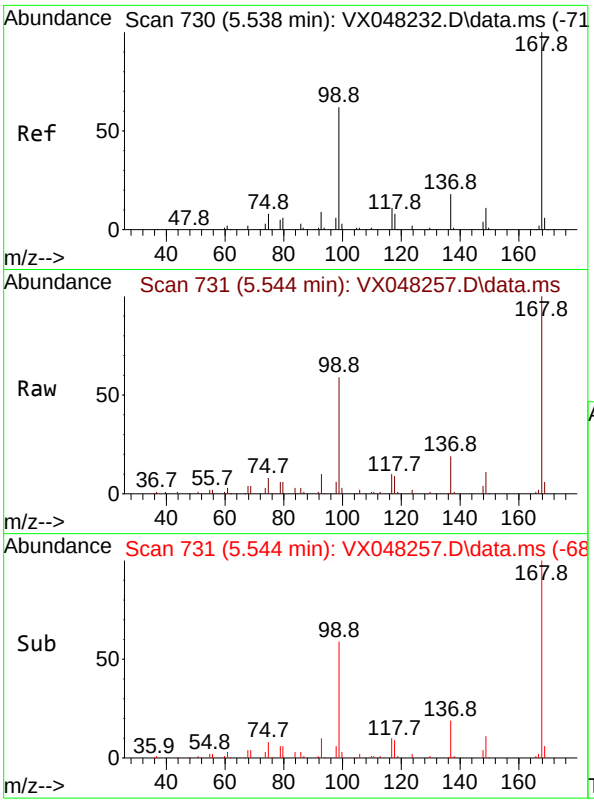
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048257.D
Acq On : 21 Oct 2025 10:54
Operator : JC/MD
Sample : Q3371-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251010

Quant Time: Oct 24 04:25:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration



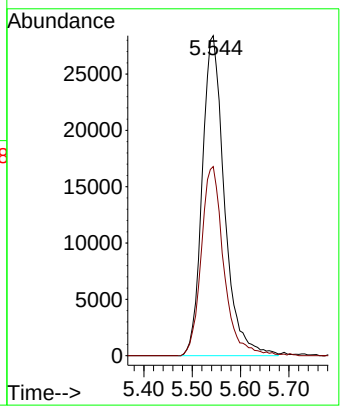


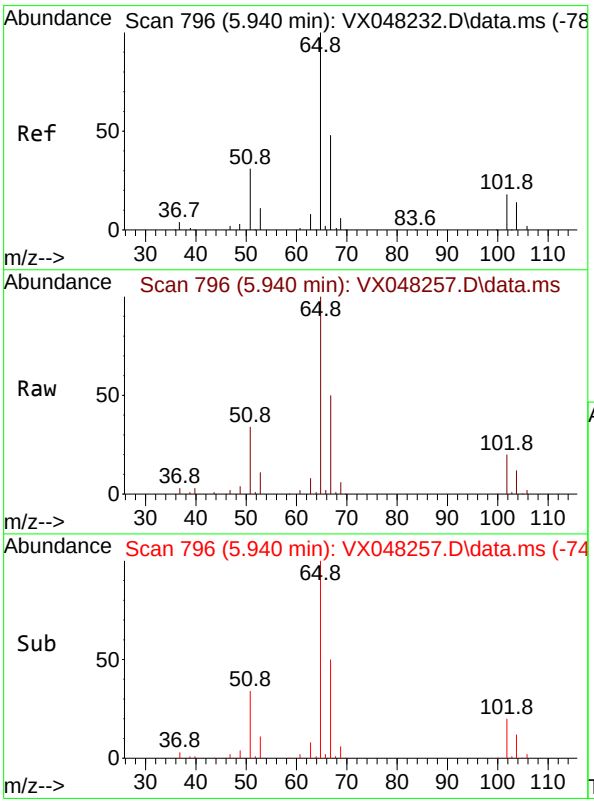
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048257.D
Acq: 21 Oct 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251010

Tgt Ion:168 Resp: 90641

Ion	Ratio	Lower	Upper
168	100		
99	59.1	46.4	69.6

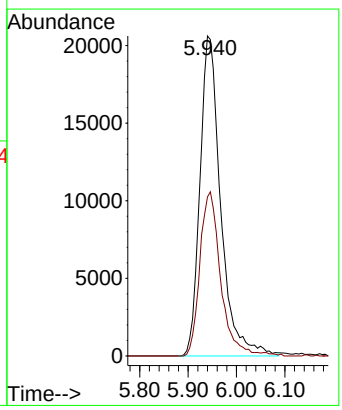


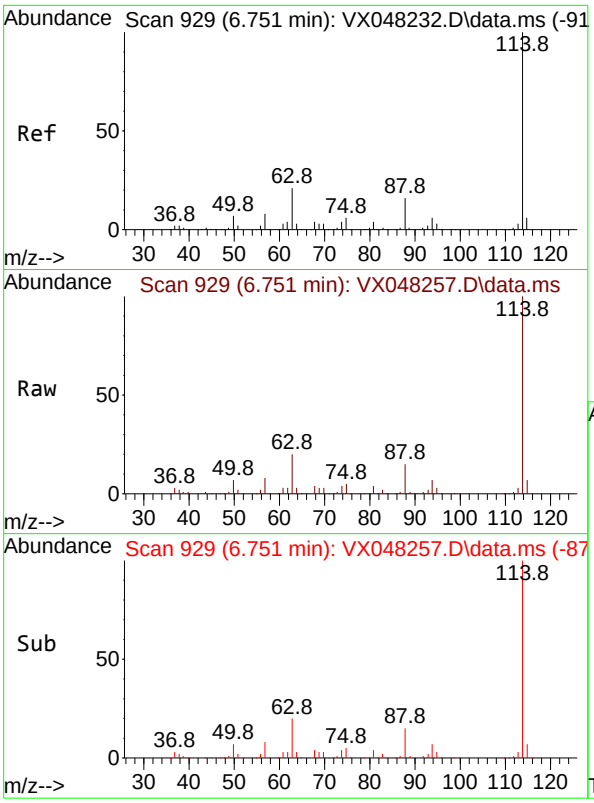


#33
1,2-Dichloroethane-d4
Concen: 48.350 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX048257.D
Acq: 21 Oct 2025 10:54

Tgt Ion: 65 Resp: 61446

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	105.0



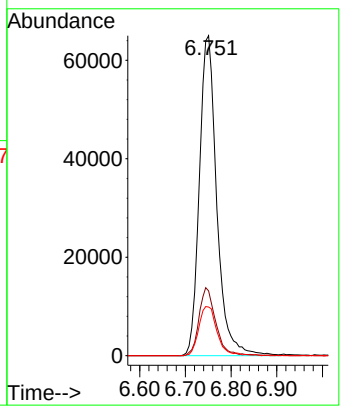


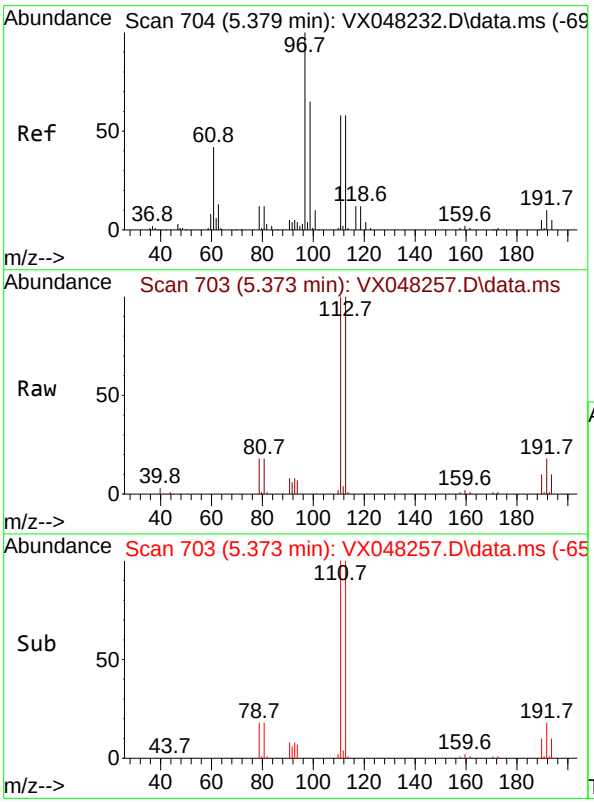
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX048257.D
Acq: 21 Oct 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251010

Tgt Ion:114 Resp: 171684

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	43.2
88	15.2	0.0	33.6

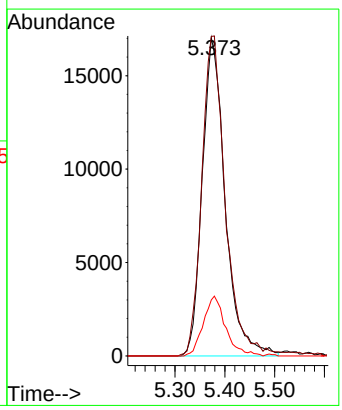


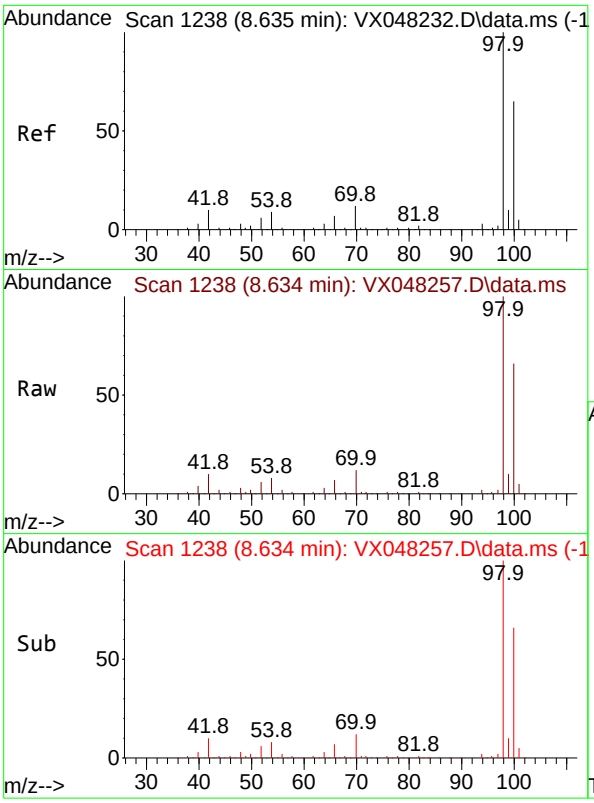


#35
Dibromofluoromethane
Concen: 46.408 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048257.D
Acq: 21 Oct 2025 10:54

Tgt Ion:113 Resp: 54394

Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.2	123.4
192	18.3	15.1	22.7



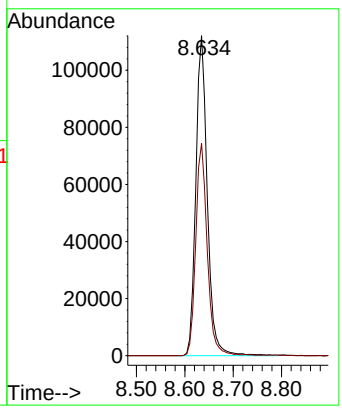


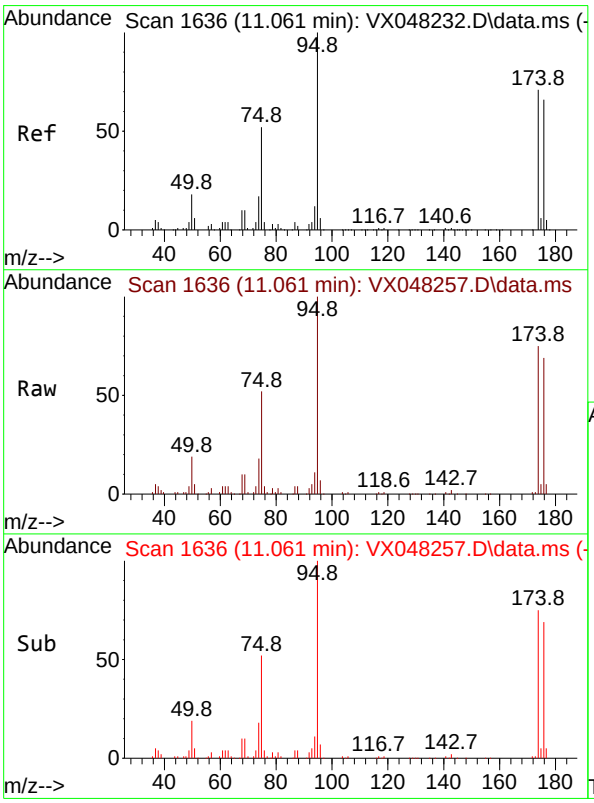
#50
Toluene-d8
Concen: 44.944 ug/l
RT: 8.634 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048257.D
Acq: 21 Oct 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251010

Tgt Ion: 98 Resp: 184640

Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.0	79.4

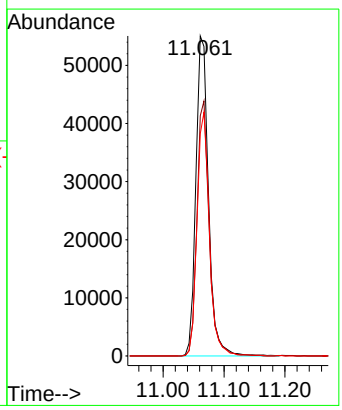


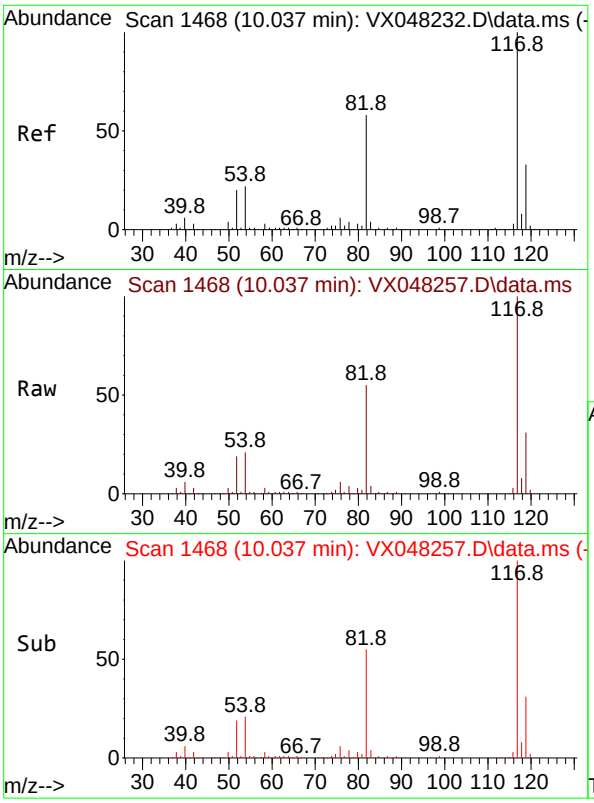


#62
4-Bromofluorobenzene
Concen: 50.673 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048257.D
Acq: 21 Oct 2025 10:54

Tgt Ion: 95 Resp: 79196

Ion	Ratio	Lower	Upper
95	100		
174	77.2	0.0	147.8
176	75.0	0.0	142.8



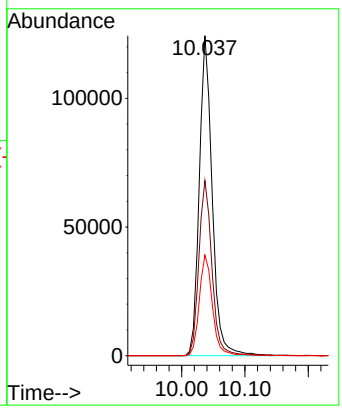


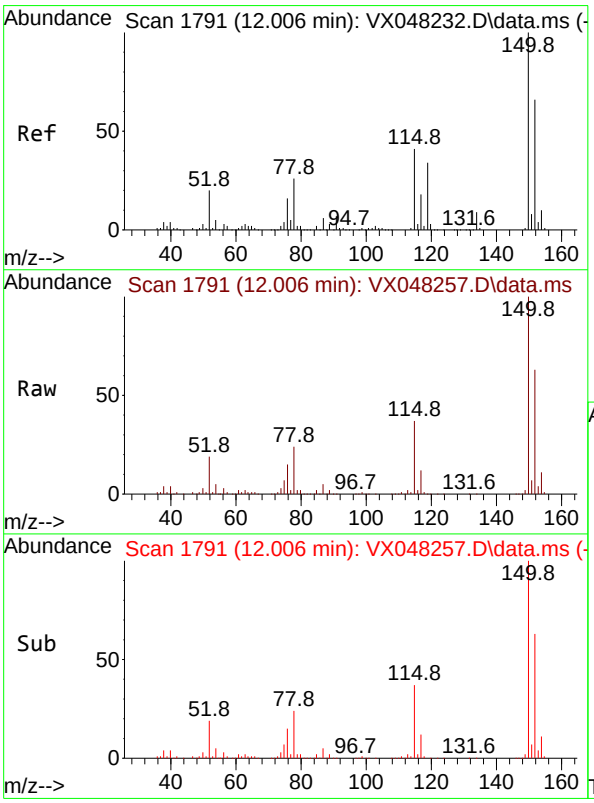
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048257.D
Acq: 21 Oct 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251010

Tgt Ion:117 Resp: 176825

Ion	Ratio	Lower	Upper
117	100		
82	54.7	46.5	69.7
119	31.4	25.9	38.9

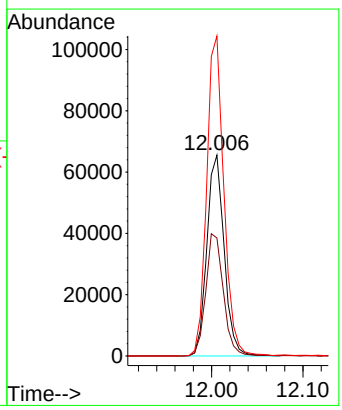




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048257.D
Acq: 21 Oct 2025 10:54

Tgt Ion:152 Resp: 86166

Ion	Ratio	Lower	Upper
152	100		
115	61.8	43.1	129.4
150	157.7	0.0	353.0



Sample Results: **VX048257.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048257.D
Acq On : 21 Oct 2025 10:54
Operator : JC/MD
Sample : Q3371-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251010

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\82X102025W.M
Title : SW846 8260

Signal : TIC: VX048257.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.373	694	703	720	rBV	54314	173522	32.34%	5.918%
2	5.544	720	731	747	rVV	83996	261784	48.79%	8.929%
3	5.940	787	796	813	rBV2	54249	160108	29.84%	5.461%
4	6.745	918	928	945	rBV	150945	394766	73.57%	13.464%
5	8.634	1232	1238	1254	rBV	292127	485001	90.39%	16.542%
6	10.037	1461	1468	1487	rBV	371619	536572	100.00%	18.301%
7	11.061	1631	1636	1650	rBV	259475	374365	69.77%	12.768%
8	12.006	1785	1791	1801	rBV	384125	522491	97.38%	17.820%
9	12.317	1838	1842	1847	rBV3	4962	7481	1.39%	0.255%
10	13.707	2065	2070	2073	rBV4	8411	10424	1.94%	0.356%
11	13.938	2105	2108	2115	rBV3	3789	5476	1.02%	0.187%

Sum of corrected areas: 2931990

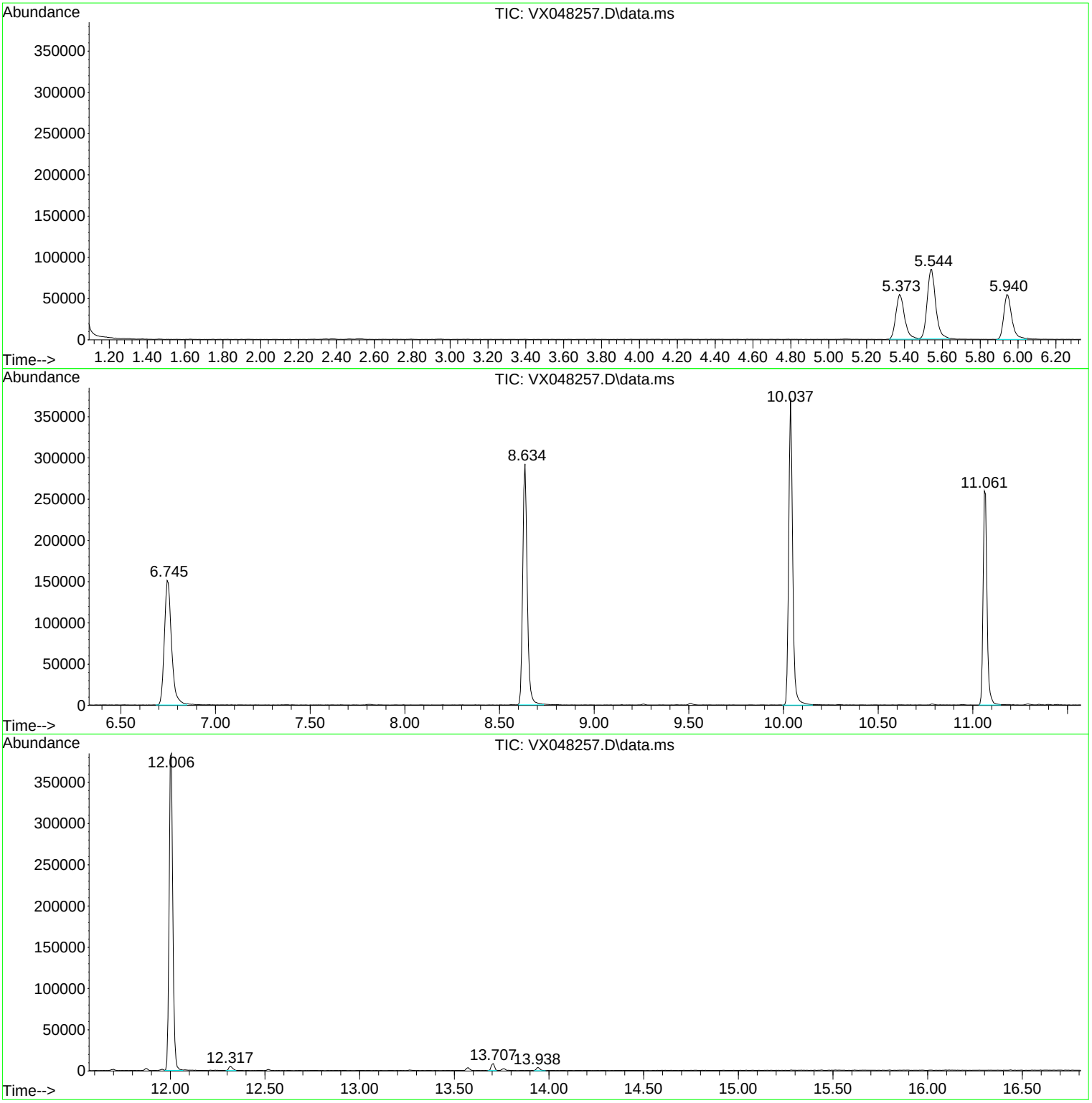
Sample Results: **VX048257.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048257.D
Acq On : 21 Oct 2025 10:54
Operator : JC/MD
Sample : Q3371-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251010

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048257.D
Acq On : 21 Oct 2025 10:54
Operator : JC/MD
Sample : Q3371-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251010

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Sample Results: **VX048257.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048257.D
Acq On : 21 Oct 2025 10:54
Operator : JC/MD
Sample : Q3371-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251010

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260

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

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

Raw Data: **VX048245.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/15/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	10/16/25
Client Sample ID:	BP-VPB-184-GW-915-917	SDG No.:	Q3371
Lab Sample ID:	Q3371-04	Matrix:	Water
Analytical Method:	8260D Level : LOW	% Solid:	0
Sample Wt/Vol:	5 mL Final Vol: 5000 uL	Test:	VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS										
75-71-8	Dichlorodifluoromethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/20/25 17:41	VX102025
74-87-3	Chloromethane	0.50	U	1	0.32	0.50	1.00	ug/L	10/20/25 17:41	VX102025
75-01-4	Vinyl Chloride	0.75	U	1	0.26	0.75	1.00	ug/L	10/20/25 17:41	VX102025
74-83-9	Bromomethane	3.80	U	1	1.40	3.80	5.00	ug/L	10/20/25 17:41	VX102025
75-00-3	Chloroethane	0.75	U	1	0.47	0.75	1.00	ug/L	10/20/25 17:41	VX102025
75-69-4	Trichlorofluoromethane	0.50	U	1	0.33	0.50	1.00	ug/L	10/20/25 17:41	VX102025
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	1	0.25	0.50	1.00	ug/L	10/20/25 17:41	VX102025
75-35-4	1,1-Dichloroethene	0.75	U	1	0.23	0.75	1.00	ug/L	10/20/25 17:41	VX102025
67-64-1	Acetone	64.0		1	1.50	3.80	5.00	ug/L	10/20/25 17:41	VX102025
75-15-0	Carbon Disulfide	0.36	J	1	0.21	0.75	1.00	ug/L	10/20/25 17:41	VX102025
1634-04-4	Methyl tert-butyl Ether	0.50	U	1	0.16	0.50	1.00	ug/L	10/20/25 17:41	VX102025
79-20-9	Methyl Acetate	0.75	U	1	0.27	0.75	1.00	ug/L	10/20/25 17:41	VX102025
75-09-2	Methylene Chloride	0.50	U	1	0.28	0.50	1.00	ug/L	10/20/25 17:41	VX102025
156-60-5	trans-1,2-Dichloroethene	0.50	U	1	0.23	0.50	1.00	ug/L	10/20/25 17:41	VX102025
75-34-3	1,1-Dichloroethane	0.50	U	1	0.23	0.50	1.00	ug/L	10/20/25 17:41	VX102025
110-82-7	Cyclohexane	2.50	U	1	1.50	2.50	5.00	ug/L	10/20/25 17:41	VX102025
78-93-3	2-Butanone	12.5		1	0.98	2.50	5.00	ug/L	10/20/25 17:41	VX102025
56-23-5	Carbon Tetrachloride	0.50	U	1	0.25	0.50	1.00	ug/L	10/20/25 17:41	VX102025
156-59-2	cis-1,2-Dichloroethene	0.75	U	1	0.19	0.75	1.00	ug/L	10/20/25 17:41	VX102025
74-97-5	Bromochloromethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/20/25 17:41	VX102025
67-66-3	Chloroform	0.50	U	1	0.25	0.50	1.00	ug/L	10/20/25 17:41	VX102025
71-55-6	1,1,1-Trichloroethane	0.50	U	1	0.20	0.50	1.00	ug/L	10/20/25 17:41	VX102025
108-87-2	Methylcyclohexane	0.50	U	1	0.16	0.50	1.00	ug/L	10/20/25 17:41	VX102025
71-43-2	Benzene	0.50	U	1	0.15	0.50	1.00	ug/L	10/20/25 17:41	VX102025
107-06-2	1,2-Dichloroethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/20/25 17:41	VX102025
79-01-6	Trichloroethene	0.75	U	1	0.090	0.75	1.00	ug/L	10/20/25 17:41	VX102025
78-87-5	1,2-Dichloropropane	0.50	U	1	0.20	0.50	1.00	ug/L	10/20/25 17:41	VX102025
75-27-4	Bromodichloromethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/20/25 17:41	VX102025
108-10-1	4-Methyl-2-Pentanone	2.50	U	1	0.68	2.50	5.00	ug/L	10/20/25 17:41	VX102025
108-88-3	Toluene	0.50	U	1	0.14	0.50	1.00	ug/L	10/20/25 17:41	VX102025
10061-02-6	t-1,3-Dichloropropene	0.50	U	1	0.17	0.50	1.00	ug/L	10/20/25 17:41	VX102025
10061-01-5	cis-1,3-Dichloropropene	0.50	U	1	0.16	0.50	1.00	ug/L	10/20/25 17:41	VX102025
79-00-5	1,1,2-Trichloroethane	0.50	U	1	0.21	0.50	1.00	ug/L	10/20/25 17:41	VX102025
591-78-6	2-Hexanone	2.50	U	1	0.89	2.50	5.00	ug/L	10/20/25 17:41	VX102025
124-48-1	Dibromochloromethane	0.50	U	1	0.18	0.50	1.00	ug/L	10/20/25 17:41	VX102025
106-93-4	1,2-Dibromoethane	0.50	U	1	0.15	0.50	1.00	ug/L	10/20/25 17:41	VX102025
127-18-4	Tetrachloroethene	0.50	U	1	0.23	0.50	1.00	ug/L	10/20/25 17:41	VX102025
108-90-7	Chlorobenzene	0.50	U	1	0.12	0.50	1.00	ug/L	10/20/25 17:41	VX102025
100-41-4	Ethyl Benzene	0.50	U	1	0.13	0.50	1.00	ug/L	10/20/25 17:41	VX102025
179601-23-1	m/p-Xylenes	1.00	U	1	0.24	1.00	2.00	ug/L	10/20/25 17:41	VX102025
95-47-6	o-Xylene	0.50	U	1	0.12	0.50	1.00	ug/L	10/20/25 17:41	VX102025
100-42-5	Styrene	0.50	U	1	0.15	0.50	1.00	ug/L	10/20/25 17:41	VX102025
75-25-2	Bromoform	0.50	U	1	0.19	0.50	1.00	ug/L	10/20/25 17:41	VX102025

Raw Data: **VX048245.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/15/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	10/16/25
Client Sample ID:	BP-VPB-184-GW-915-917	SDG No.:	Q3371
Lab Sample ID:	Q3371-04	Matrix:	Water
Analytical Method:	8260D Level : LOW	% Solid:	0
Sample Wt/Vol:	5 mL Final Vol: 5000 uL	Test:	VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.50	U	1	0.12	0.50	1.00	ug/L	10/20/25 17:41	VX102025
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	1	0.26	0.50	1.00	ug/L	10/20/25 17:41	VX102025
541-73-1	1,3-Dichlorobenzene	0.50	U	1	0.16	0.50	1.00	ug/L	10/20/25 17:41	VX102025
106-46-7	1,4-Dichlorobenzene	0.50	U	1	0.19	0.50	1.00	ug/L	10/20/25 17:41	VX102025
95-50-1	1,2-Dichlorobenzene	0.50	U	1	0.16	0.50	1.00	ug/L	10/20/25 17:41	VX102025
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	1	0.53	0.75	1.00	ug/L	10/20/25 17:41	VX102025
120-82-1	1,2,4-Trichlorobenzene	0.50	U	1	0.20	0.50	1.00	ug/L	10/20/25 17:41	VX102025
87-61-6	1,2,3-Trichlorobenzene	0.75	U	1	0.20	0.75	1.00	ug/L	10/20/25 17:41	VX102025
SURROGATES										
17060-07-0	1,2-Dichloroethane-d4	51.0			81 - 118		102%	SPK: 50		
1868-53-7	Dibromofluoromethane	48.4			80 - 119		97%	SPK: 50		
2037-26-5	Toluene-d8	47.1			89 - 112		94%	SPK: 50		
460-00-4	4-Bromofluorobenzene	45.0			85 - 114		90%	SPK: 50		
INTERNAL STANDARDS		**Area Count**								
363-72-4	Pentafluorobenzene	107000								
540-36-3	1,4-Difluorobenzene	184000								
3114-55-4	Chlorobenzene-d5	170000								
3855-82-1	1,4-Dichlorobenzene-d4	81000								
TENTATIVE IDENTIFIED COMPOUNDS										
75-43-4	Dichlorofluoromethane	N.D								

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

Sample Results: **VX048245.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048245.D
Acq On : 20 Oct 2025 17:41
Operator : JC/MD
Sample : Q3371-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-915-917

Quant Time: Oct 20 18:52:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

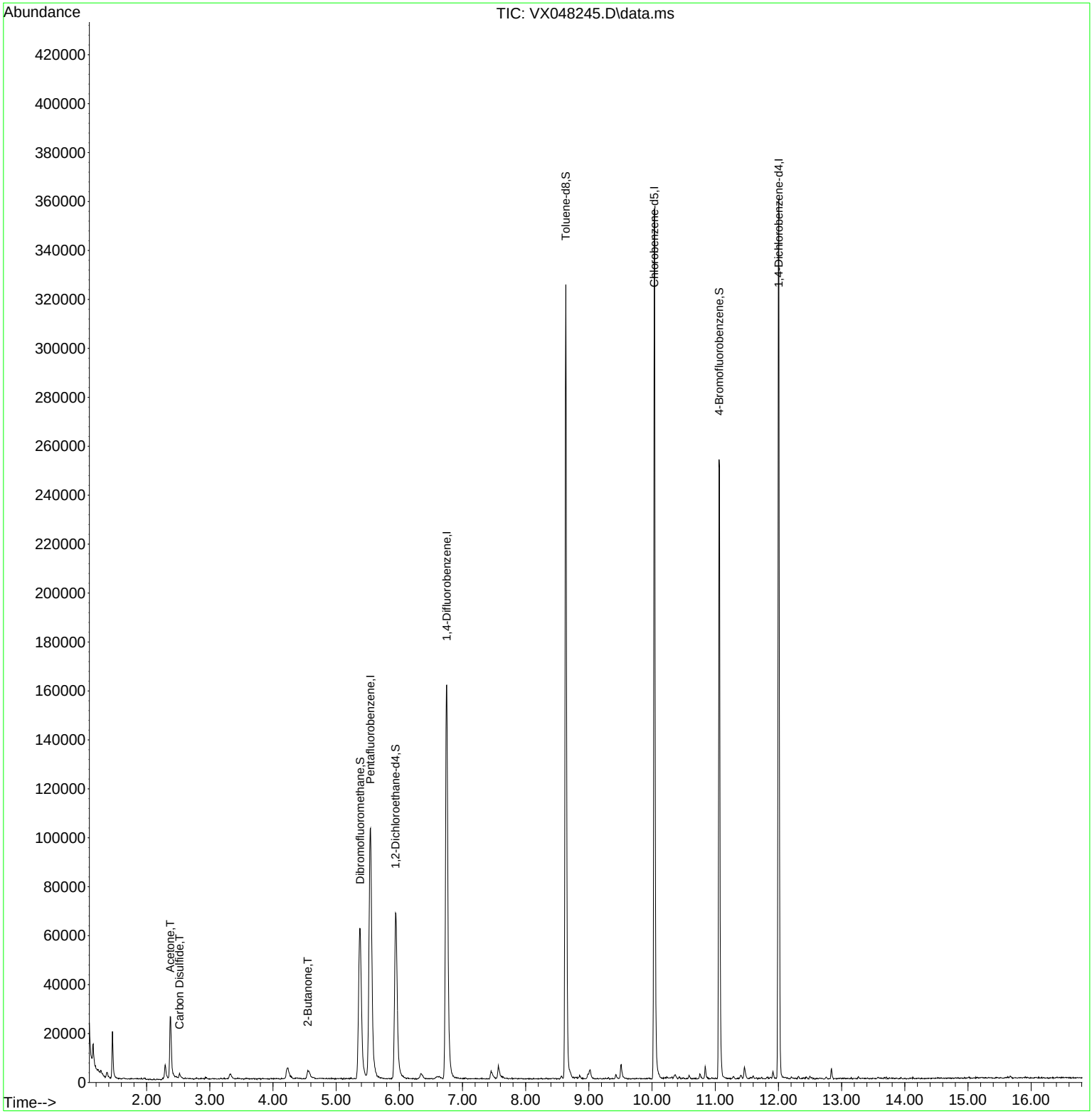
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	107423	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	183824	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	169870	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	81048	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	76776	50.975	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 101.960%			
35) Dibromofluoromethane	5.379	113	60761	48.417	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.840%			
50) Toluene-d8	8.635	98	207133	47.089	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 94.180%			
62) 4-Bromofluorobenzene	11.061	95	75303	45.000	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 90.000%			
Target Compounds						Qvalue
16) Acetone	2.373	43	33048	63.960	ug/l	98
17) Carbon Disulfide	2.520	76	1264	0.356	ug/l	97
25) 2-Butanone	4.550	43	8182	12.511	ug/l	98

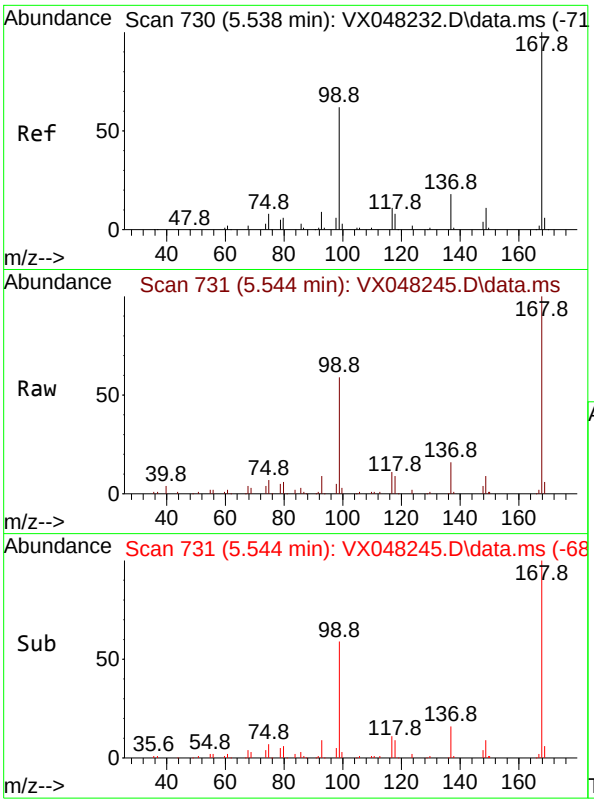
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048245.D
Acq On : 20 Oct 2025 17:41
Operator : JC/MD
Sample : Q3371-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-915-917

Quant Time: Oct 20 18:52:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration



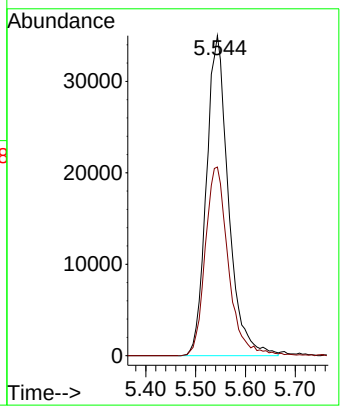


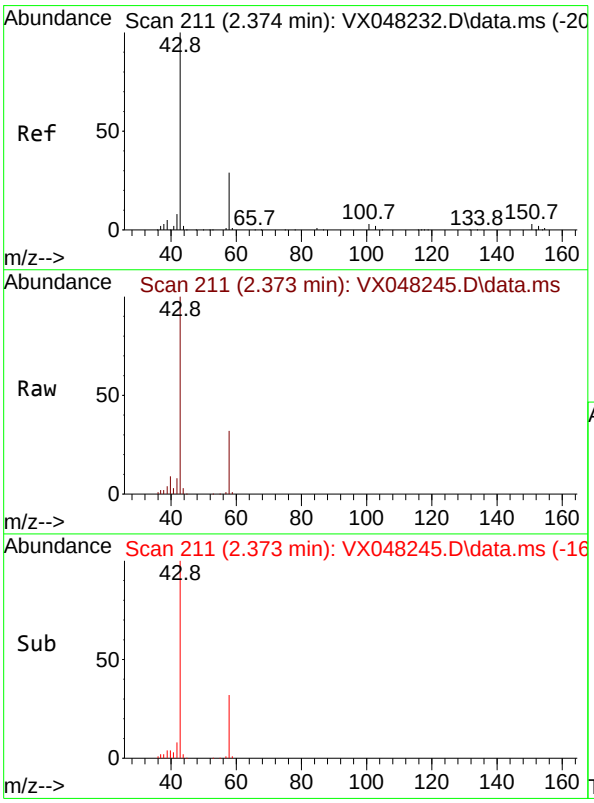
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048245.D
Acq: 20 Oct 2025 17:41

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-915-917

Tgt Ion:168 Resp: 107423

Ion	Ratio	Lower	Upper
168	100		
99	59.0	46.4	69.6

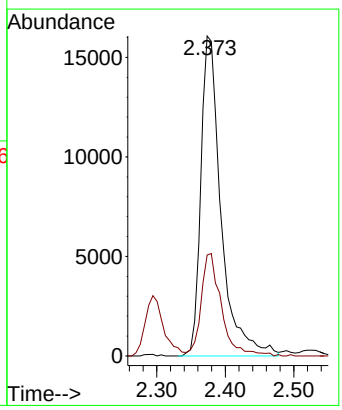


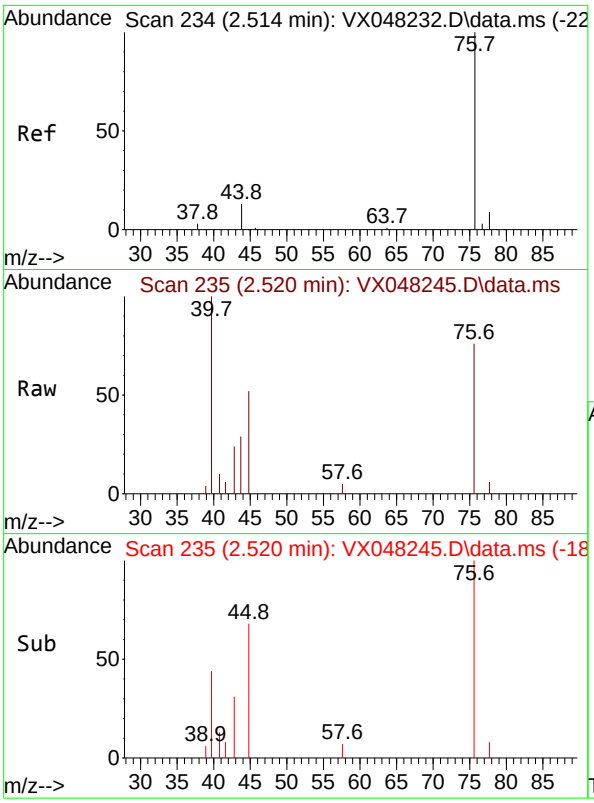


#16
Acetone
Concen: 63.960 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048245.D
Acq: 20 Oct 2025 17:41

Tgt Ion: 43 Resp: 33048

Ion	Ratio	Lower	Upper
43	100		
58	30.4	23.4	35.2



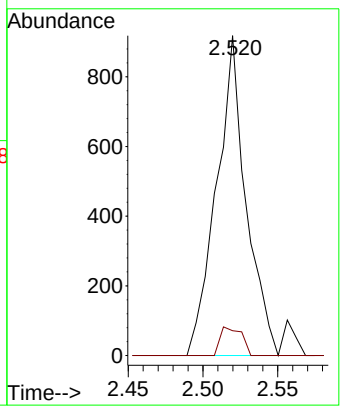


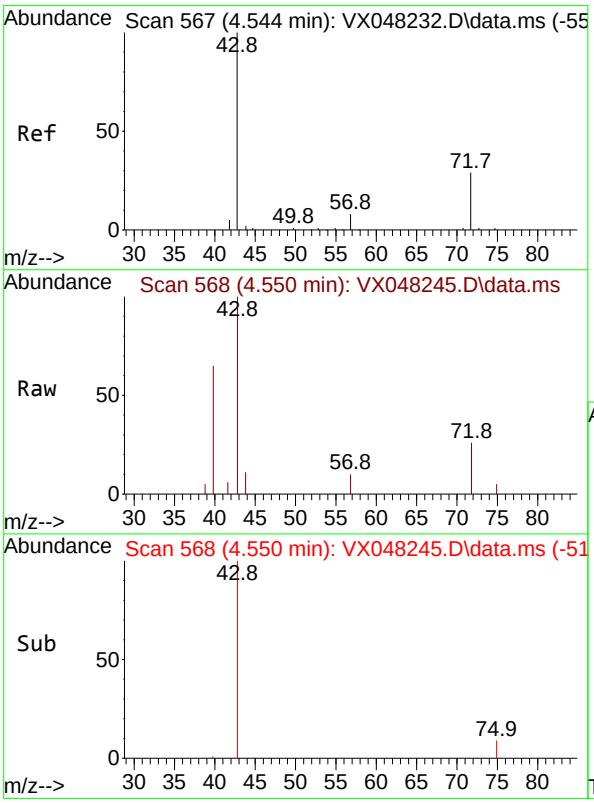
#17
Carbon Disulfide
Concen: 0.356 ug/l
RT: 2.520 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX048245.D
Acq: 20 Oct 2025 17:41

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-915-917

Tgt Ion: 76 Resp: 1264

Ion	Ratio	Lower	Upper
76	100		
78	7.7	7.1	10.7

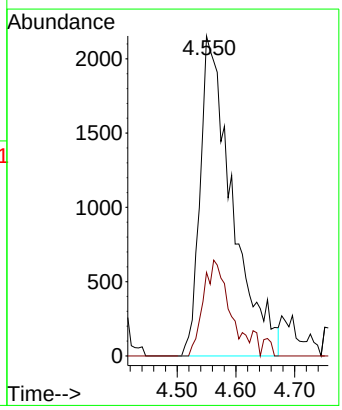


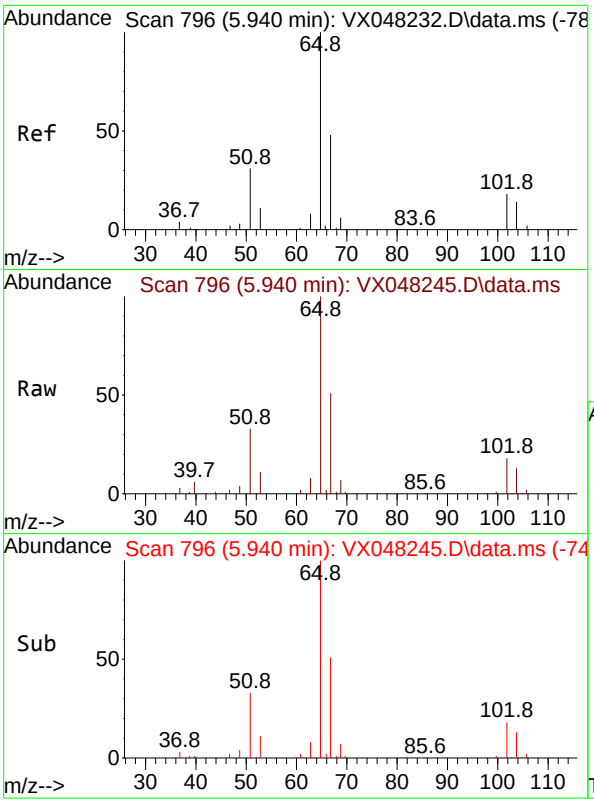


#25
2-Butanone
Concen: 12.511 ug/l
RT: 4.550 min Scan# 568
Delta R.T. 0.012 min
Lab File: VX048245.D
Acq: 20 Oct 2025 17:41

Tgt Ion: 43 Resp: 8182

Ion	Ratio	Lower	Upper
43	100		
72	26.1	19.9	29.9



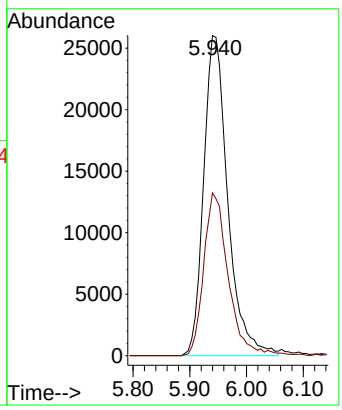


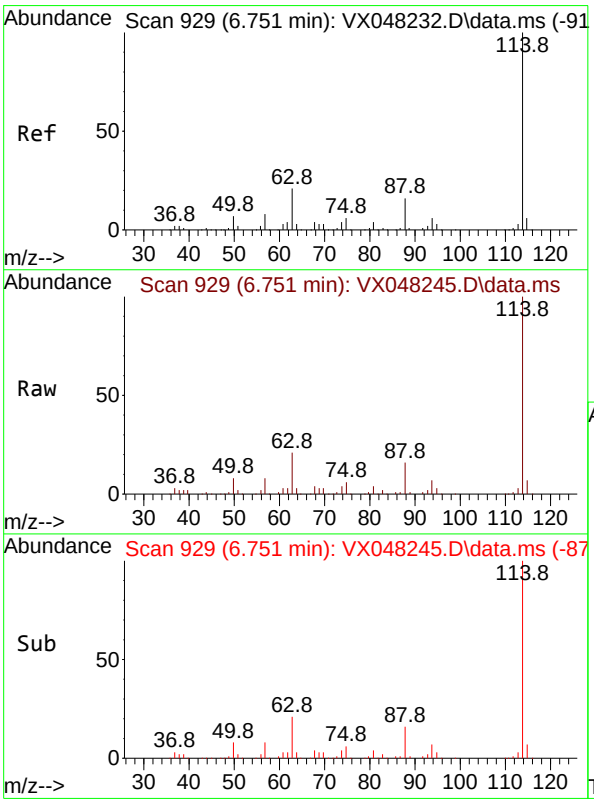
#33
1,2-Dichloroethane-d4
Concen: 50.975 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048245.D
Acq: 20 Oct 2025 17:41

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-915-917

Tgt Ion: 65 Resp: 76776

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	105.0

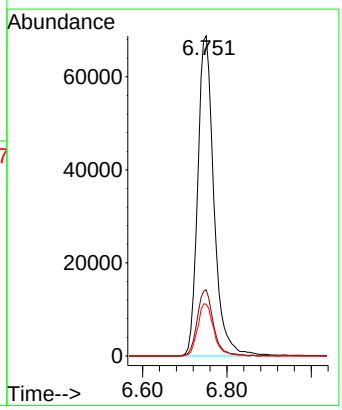


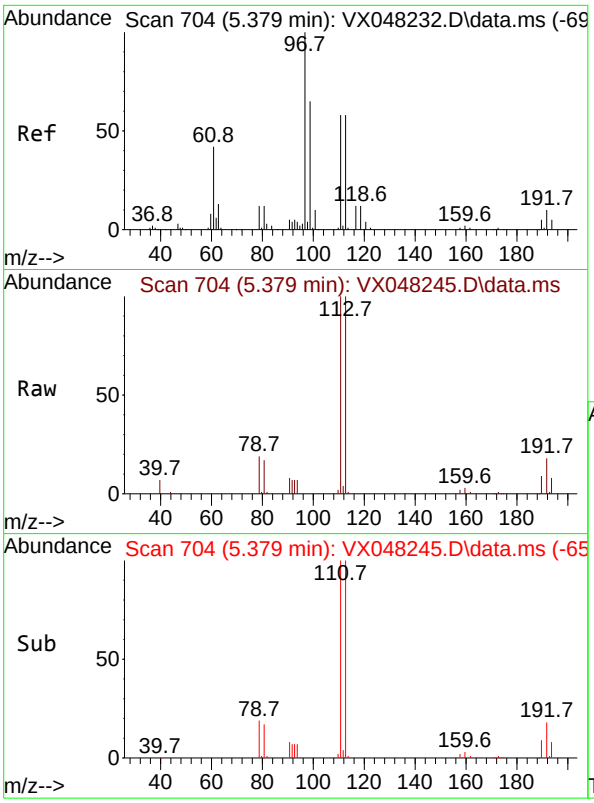


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX048245.D
Acq: 20 Oct 2025 17:41

Tgt Ion:114 Resp: 183824

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	43.2
88	16.2	0.0	33.6



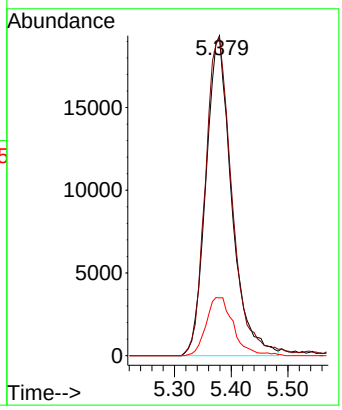


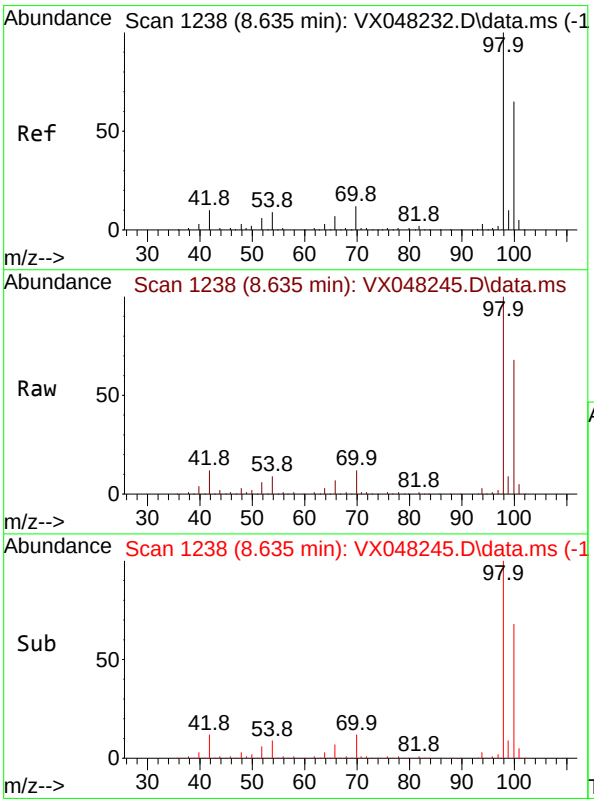
#35
Dibromofluoromethane
Concen: 48.417 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048245.D
Acq: 20 Oct 2025 17:41

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-915-917

Tgt Ion:113 Resp: 60761

Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.2	123.4
192	19.4	15.1	22.7

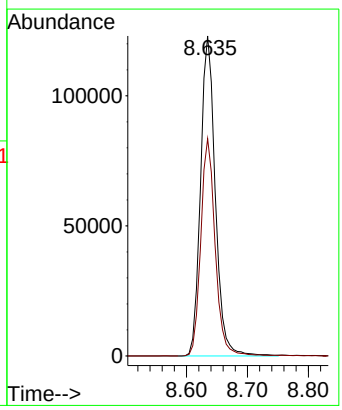


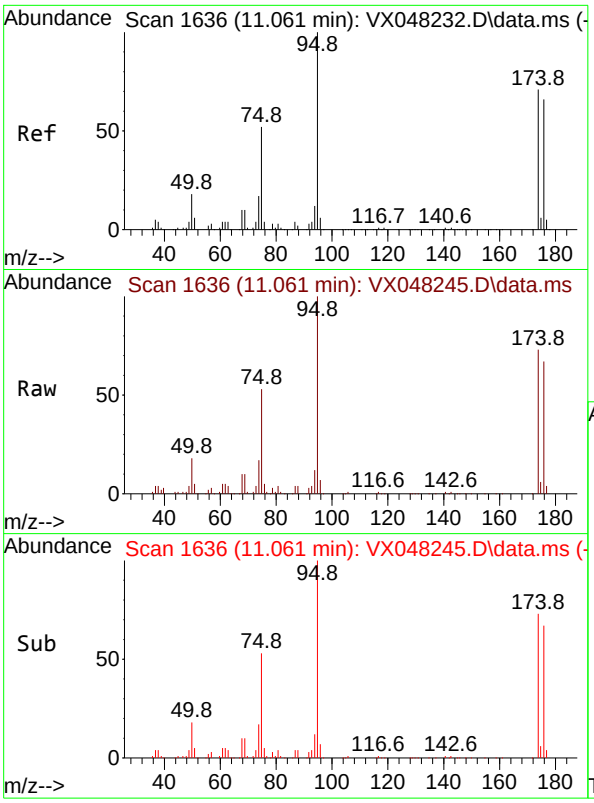


#50
Toluene-d8
Concen: 47.089 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048245.D
Acq: 20 Oct 2025 17:41

Tgt Ion: 98 Resp: 207133

Ion	Ratio	Lower	Upper
98	100		
100	66.2	53.0	79.4



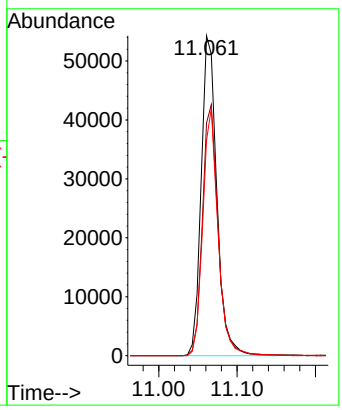


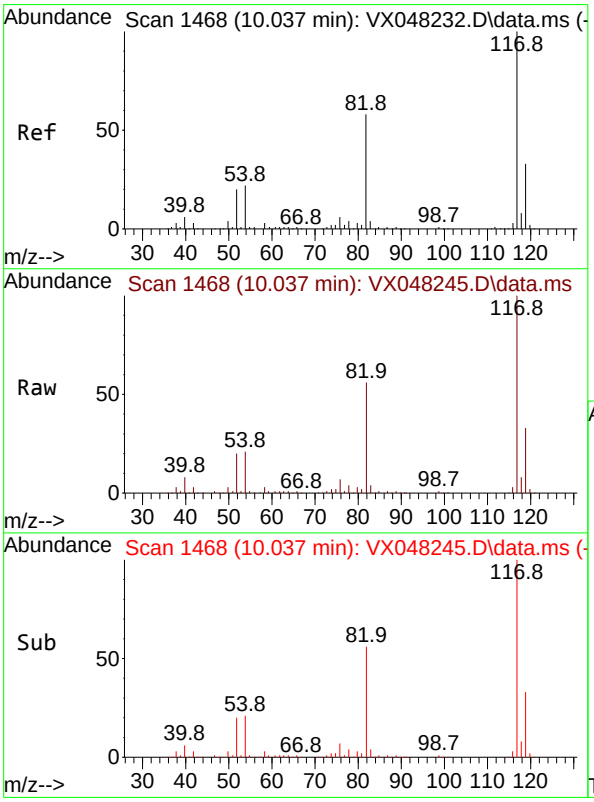
#62
4-Bromofluorobenzene
Concen: 45.000 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048245.D
Acq: 20 Oct 2025 17:41

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-915-917

Tgt Ion: 95 Resp: 75303

Ion	Ratio	Lower	Upper
95	100		
174	78.4	0.0	147.8
176	75.2	0.0	142.8

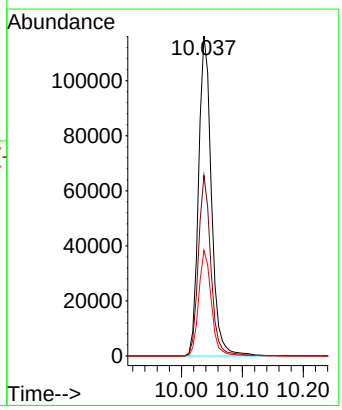


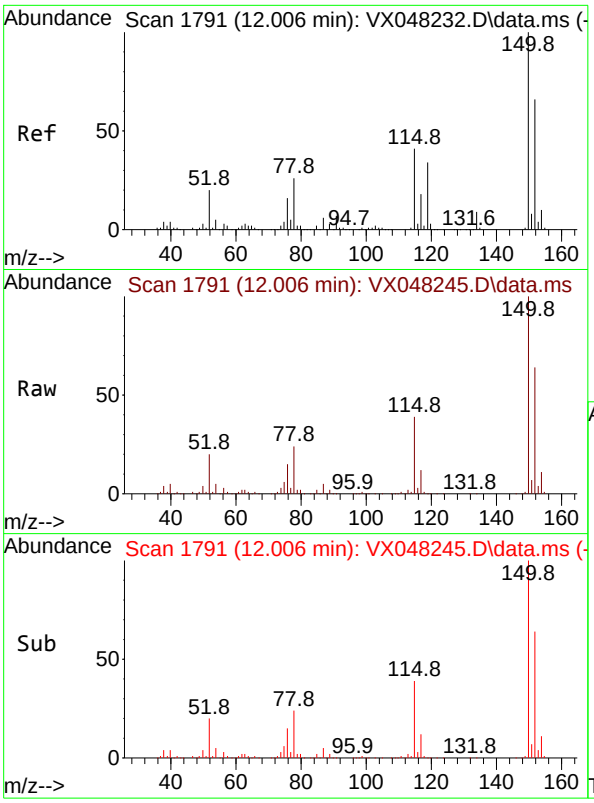


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048245.D
Acq: 20 Oct 2025 17:41

Tgt Ion:117 Resp: 169870

Ion	Ratio	Lower	Upper
117	100		
82	56.5	46.5	69.7
119	33.0	25.9	38.9



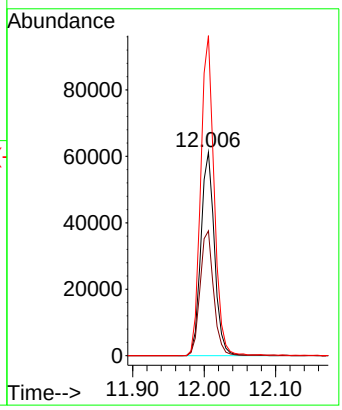


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048245.D
Acq: 20 Oct 2025 17:41

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-915-917

Tgt Ion:152 Resp: 81048

Ion	Ratio	Lower	Upper
152	100		
115	60.9	43.1	129.4
150	155.0	0.0	353.0



Sample Results: **VX048245.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048245.D
Acq On : 20 Oct 2025 17:41
Operator : JC/MD
Sample : Q3371-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-915-917

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\82X102025W.M
Title : SW846 8260

Signal : TIC: VX048245.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.154	8	11	22	rVB2	10787	18449	3.40%	0.571%
2	1.459	57	61	72	rVB	19085	24809	4.57%	0.767%
3	2.294	193	198	205	rBV	5668	9942	1.83%	0.307%
4	2.373	205	211	223	rVV	25048	49038	9.03%	1.516%
5	3.331	361	368	379	rVB3	2045	5916	1.09%	0.183%
6	4.233	507	516	530	rVB5	4501	15271	2.81%	0.472%
7	5.373	693	703	719	rBV4	61435	198445	36.55%	6.137%
8	5.544	720	731	748	rVB	101459	316289	58.26%	9.781%
9	5.940	786	796	815	rBV2	67813	203109	37.41%	6.281%
10	6.342	855	862	873	rBV4	2142	6317	1.16%	0.195%
11	6.751	919	929	945	rBV	160941	427254	78.70%	13.213%
12	7.452	1039	1044	1053	rBV3	3326	8731	1.61%	0.270%
13	7.568	1058	1063	1069	rBV3	5234	9929	1.83%	0.307%
14	8.635	1231	1238	1257	rBV	324332	542882	100.00%	16.788%
15	9.019	1297	1301	1308	rVB4	3575	7171	1.32%	0.222%
16	9.512	1376	1382	1392	rBV	5712	10511	1.94%	0.325%
17	10.037	1462	1468	1483	rBV	355730	513627	94.61%	15.884%
18	10.841	1594	1600	1610	rVB3	5102	7930	1.46%	0.245%
19	11.061	1631	1636	1653	rBV	253025	360097	66.33%	11.136%
20	11.463	1697	1702	1711	rVB3	4775	8472	1.56%	0.262%
21	12.006	1785	1791	1800	rBV	359468	483734	89.10%	14.959%
22	12.841	1924	1928	1933	rVB3	4224	5772	1.06%	0.178%

Sum of corrected areas: 3233695

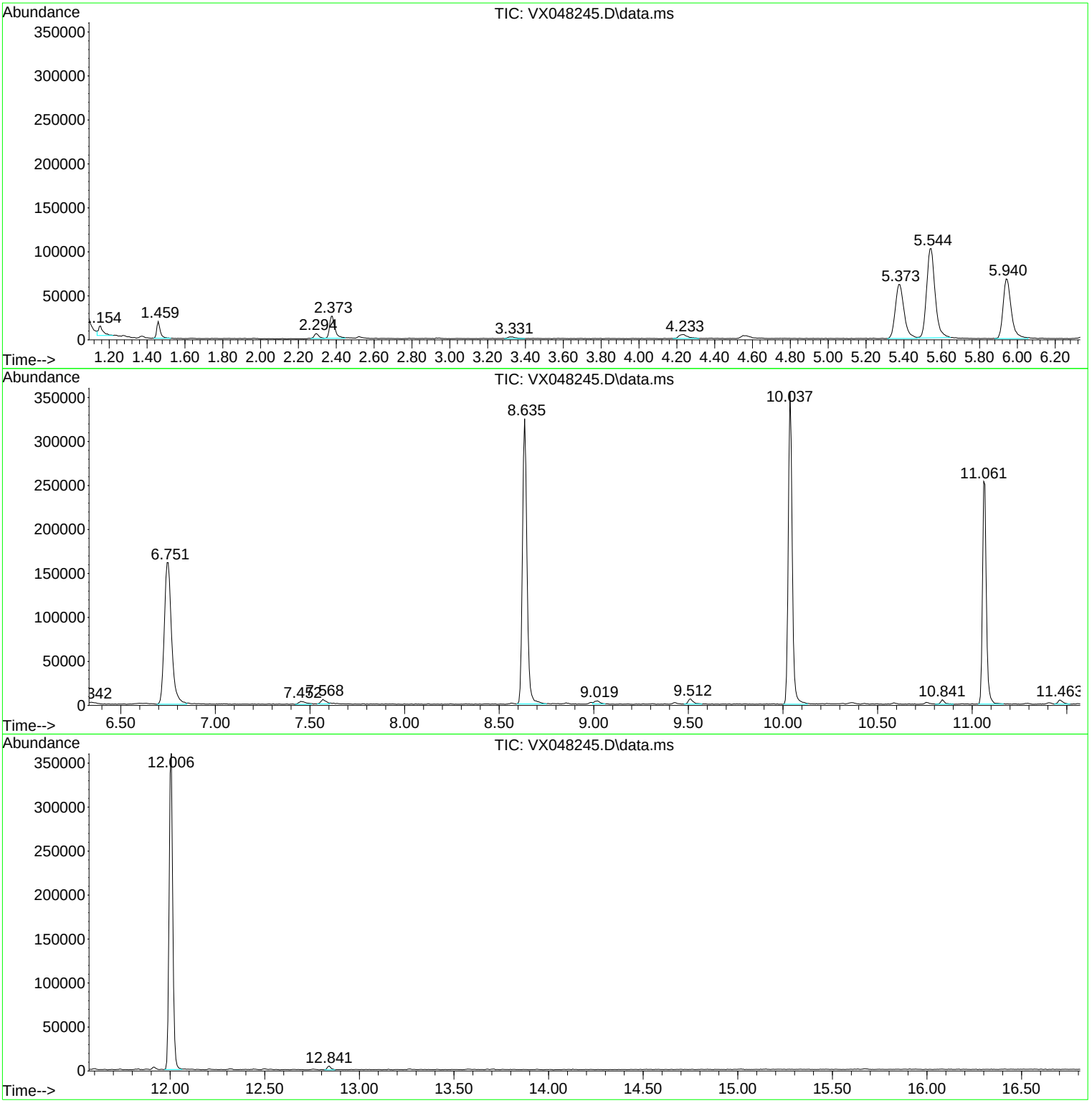
Sample Results: **VX048245.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048245.D
Acq On : 20 Oct 2025 17:41
Operator : JC/MD
Sample : Q3371-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-915-917

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VX048245.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048245.D
Acq On : 20 Oct 2025 17:41
Operator : JC/MD
Sample : Q3371-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-915-917

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Sample Results: **VX048245.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048245.D
Acq On : 20 Oct 2025 17:41
Operator : JC/MD
Sample : Q3371-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-915-917

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260

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

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

Raw Data: **VX048246.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/15/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	10/16/25
Client Sample ID:	BP-VPB-184-GW-920-922	SDG No.:	Q3371
Lab Sample ID:	Q3371-05	Matrix:	Water
Analytical Method:	8260D Level : LOW	% Solid:	0
Sample Wt/Vol:	5 mL Final Vol: 5000 uL	Test:	VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS										
75-71-8	Dichlorodifluoromethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/20/25 18:02	VX102025
74-87-3	Chloromethane	0.50	U	1	0.32	0.50	1.00	ug/L	10/20/25 18:02	VX102025
75-01-4	Vinyl Chloride	0.75	U	1	0.26	0.75	1.00	ug/L	10/20/25 18:02	VX102025
74-83-9	Bromomethane	3.80	U	1	1.40	3.80	5.00	ug/L	10/20/25 18:02	VX102025
75-00-3	Chloroethane	0.75	U	1	0.47	0.75	1.00	ug/L	10/20/25 18:02	VX102025
75-69-4	Trichlorofluoromethane	0.50	U	1	0.33	0.50	1.00	ug/L	10/20/25 18:02	VX102025
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	1	0.25	0.50	1.00	ug/L	10/20/25 18:02	VX102025
75-35-4	1,1-Dichloroethene	0.75	U	1	0.23	0.75	1.00	ug/L	10/20/25 18:02	VX102025
67-64-1	Acetone	3.80	U	1	1.50	3.80	5.00	ug/L	10/20/25 18:02	VX102025
75-15-0	Carbon Disulfide	0.75	U	1	0.21	0.75	1.00	ug/L	10/20/25 18:02	VX102025
1634-04-4	Methyl tert-butyl Ether	0.50	U	1	0.16	0.50	1.00	ug/L	10/20/25 18:02	VX102025
79-20-9	Methyl Acetate	0.75	U	1	0.27	0.75	1.00	ug/L	10/20/25 18:02	VX102025
75-09-2	Methylene Chloride	0.50	U	1	0.28	0.50	1.00	ug/L	10/20/25 18:02	VX102025
156-60-5	trans-1,2-Dichloroethene	0.50	U	1	0.23	0.50	1.00	ug/L	10/20/25 18:02	VX102025
75-34-3	1,1-Dichloroethane	0.50	U	1	0.23	0.50	1.00	ug/L	10/20/25 18:02	VX102025
110-82-7	Cyclohexane	2.50	U	1	1.50	2.50	5.00	ug/L	10/20/25 18:02	VX102025
78-93-3	2-Butanone	2.50	U	1	0.98	2.50	5.00	ug/L	10/20/25 18:02	VX102025
56-23-5	Carbon Tetrachloride	0.50	U	1	0.25	0.50	1.00	ug/L	10/20/25 18:02	VX102025
156-59-2	cis-1,2-Dichloroethene	0.75	U	1	0.19	0.75	1.00	ug/L	10/20/25 18:02	VX102025
74-97-5	Bromochloromethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/20/25 18:02	VX102025
67-66-3	Chloroform	0.50	U	1	0.25	0.50	1.00	ug/L	10/20/25 18:02	VX102025
71-55-6	1,1,1-Trichloroethane	0.50	U	1	0.20	0.50	1.00	ug/L	10/20/25 18:02	VX102025
108-87-2	Methylcyclohexane	0.50	U	1	0.16	0.50	1.00	ug/L	10/20/25 18:02	VX102025
71-43-2	Benzene	0.50	U	1	0.15	0.50	1.00	ug/L	10/20/25 18:02	VX102025
107-06-2	1,2-Dichloroethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/20/25 18:02	VX102025
79-01-6	Trichloroethene	0.75	U	1	0.090	0.75	1.00	ug/L	10/20/25 18:02	VX102025
78-87-5	1,2-Dichloropropane	0.50	U	1	0.20	0.50	1.00	ug/L	10/20/25 18:02	VX102025
75-27-4	Bromodichloromethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/20/25 18:02	VX102025
108-10-1	4-Methyl-2-Pentanone	2.50	U	1	0.68	2.50	5.00	ug/L	10/20/25 18:02	VX102025
108-88-3	Toluene	0.50	U	1	0.14	0.50	1.00	ug/L	10/20/25 18:02	VX102025
10061-02-6	t-1,3-Dichloropropene	0.50	U	1	0.17	0.50	1.00	ug/L	10/20/25 18:02	VX102025
10061-01-5	cis-1,3-Dichloropropene	0.50	U	1	0.16	0.50	1.00	ug/L	10/20/25 18:02	VX102025
79-00-5	1,1,2-Trichloroethane	0.50	U	1	0.21	0.50	1.00	ug/L	10/20/25 18:02	VX102025
591-78-6	2-Hexanone	2.50	U	1	0.89	2.50	5.00	ug/L	10/20/25 18:02	VX102025
124-48-1	Dibromochloromethane	0.50	U	1	0.18	0.50	1.00	ug/L	10/20/25 18:02	VX102025
106-93-4	1,2-Dibromoethane	0.50	U	1	0.15	0.50	1.00	ug/L	10/20/25 18:02	VX102025
127-18-4	Tetrachloroethene	0.50	U	1	0.23	0.50	1.00	ug/L	10/20/25 18:02	VX102025
108-90-7	Chlorobenzene	0.50	U	1	0.12	0.50	1.00	ug/L	10/20/25 18:02	VX102025
100-41-4	Ethyl Benzene	0.50	U	1	0.13	0.50	1.00	ug/L	10/20/25 18:02	VX102025
179601-23-1	m/p-Xylenes	1.00	U	1	0.24	1.00	2.00	ug/L	10/20/25 18:02	VX102025
95-47-6	o-Xylene	0.50	U	1	0.12	0.50	1.00	ug/L	10/20/25 18:02	VX102025
100-42-5	Styrene	0.50	U	1	0.15	0.50	1.00	ug/L	10/20/25 18:02	VX102025
75-25-2	Bromoform	0.50	U	1	0.19	0.50	1.00	ug/L	10/20/25 18:02	VX102025

Raw Data: **VX048246.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/15/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	10/16/25
Client Sample ID:	BP-VPB-184-GW-920-922	SDG No.:	Q3371
Lab Sample ID:	Q3371-05	Matrix:	Water
Analytical Method:	8260D Level : LOW	% Solid:	0
Sample Wt/Vol:	5 mL Final Vol: 5000 uL	Test:	VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.50	U	1	0.12	0.50	1.00	ug/L	10/20/25 18:02	VX102025
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	1	0.26	0.50	1.00	ug/L	10/20/25 18:02	VX102025
541-73-1	1,3-Dichlorobenzene	0.50	U	1	0.16	0.50	1.00	ug/L	10/20/25 18:02	VX102025
106-46-7	1,4-Dichlorobenzene	0.50	U	1	0.19	0.50	1.00	ug/L	10/20/25 18:02	VX102025
95-50-1	1,2-Dichlorobenzene	0.50	U	1	0.16	0.50	1.00	ug/L	10/20/25 18:02	VX102025
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	1	0.53	0.75	1.00	ug/L	10/20/25 18:02	VX102025
120-82-1	1,2,4-Trichlorobenzene	0.50	U	1	0.20	0.50	1.00	ug/L	10/20/25 18:02	VX102025
87-61-6	1,2,3-Trichlorobenzene	0.75	U	1	0.20	0.75	1.00	ug/L	10/20/25 18:02	VX102025
SURROGATES										
17060-07-0	1,2-Dichloroethane-d4	55.9			81 - 118		112%	SPK: 50		
1868-53-7	Dibromofluoromethane	53.2			80 - 119		106%	SPK: 50		
2037-26-5	Toluene-d8	51.4			89 - 112		103%	SPK: 50		
460-00-4	4-Bromofluorobenzene	48.7			85 - 114		97%	SPK: 50		
INTERNAL STANDARDS		**Area Count**								
363-72-4	Pentafluorobenzene	122000								
540-36-3	1,4-Difluorobenzene	210000								
3114-55-4	Chlorobenzene-d5	194000								
3855-82-1	1,4-Dichlorobenzene-d4	92900								
TENTATIVE IDENTIFIED COMPOUNDS										
75-43-4	Dichlorofluoromethane	N.D								

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

Sample Results: **VX048246.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048246.D
Acq On : 20 Oct 2025 18:02
Operator : JC/MD
Sample : Q3371-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-920-922

Quant Time: Oct 20 18:54:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	122446	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	210478	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	193818	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	92863	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	95954	55.892	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 111.780%			
35) Dibromofluoromethane	5.373	113	76505	53.242	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.480%			
50) Toluene-d8	8.635	98	258724	51.369	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 102.740%			
62) 4-Bromofluorobenzene	11.061	95	93348	48.719	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 97.440%			

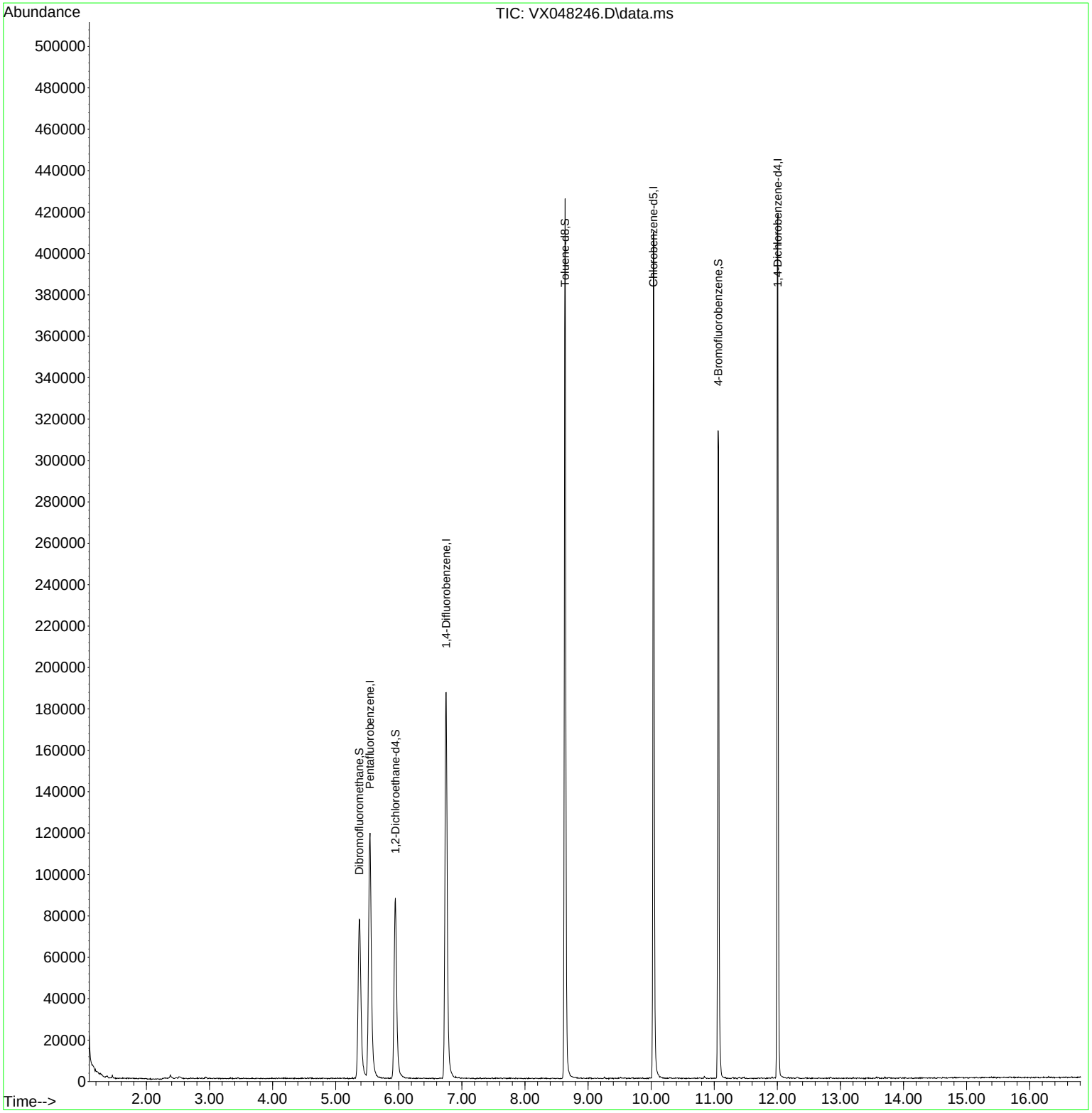
Target Compounds Qvalue

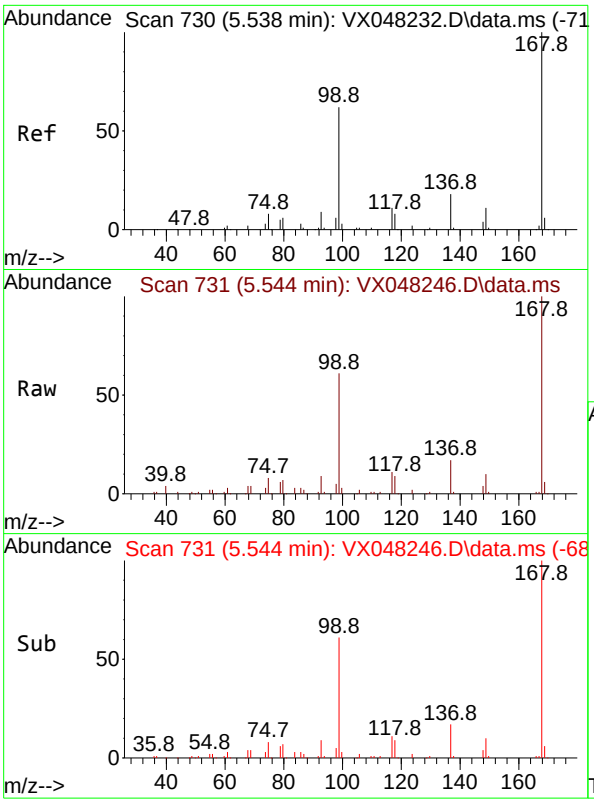
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048246.D
Acq On : 20 Oct 2025 18:02
Operator : JC/MD
Sample : Q3371-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-920-922

Quant Time: Oct 20 18:54:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration



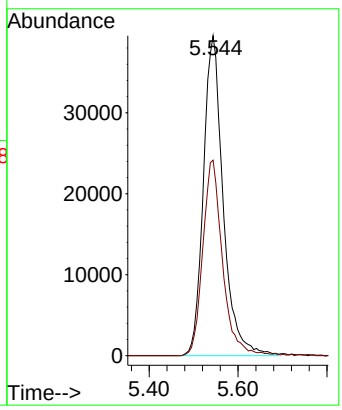


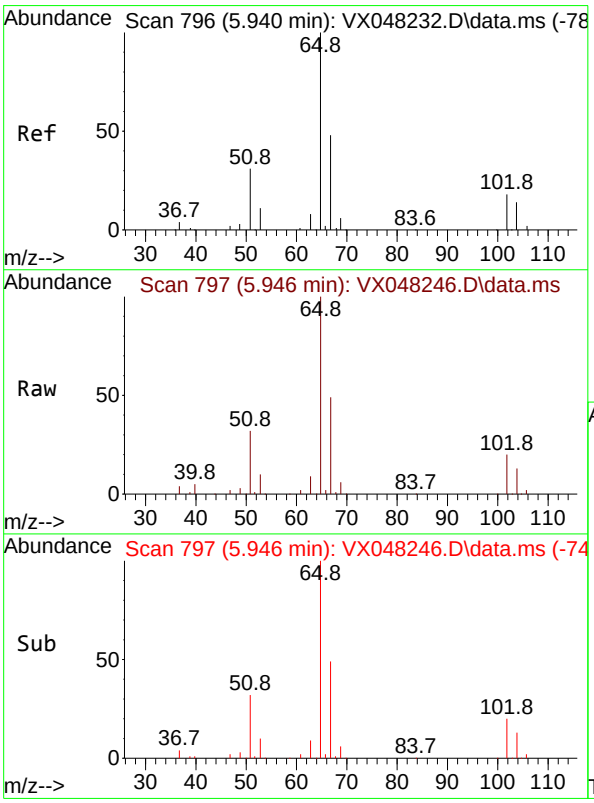
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048246.D
Acq: 20 Oct 2025 18:02

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-920-922

Tgt Ion:168 Resp: 122446

Ion	Ratio	Lower	Upper
168	100		
99	61.1	46.4	69.6

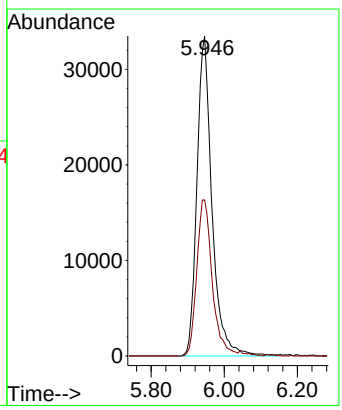


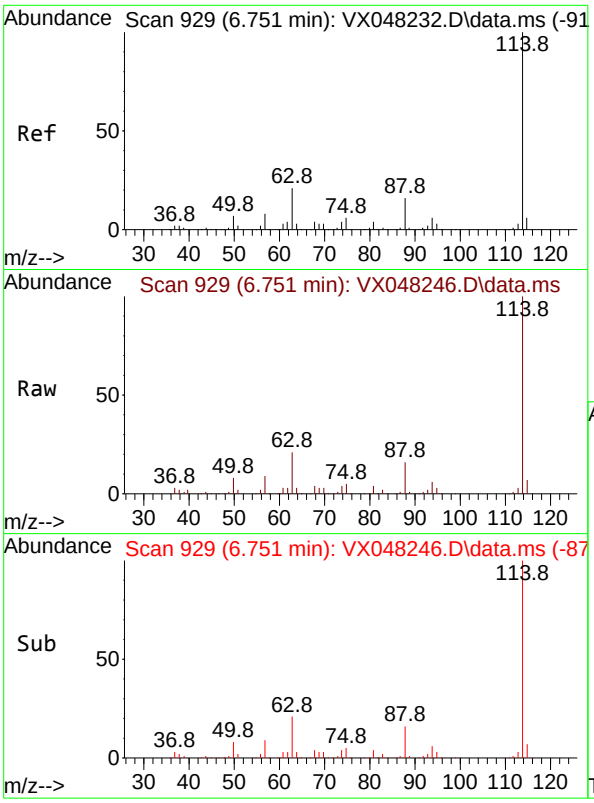


#33
1,2-Dichloroethane-d4
Concen: 55.892 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX048246.D
Acq: 20 Oct 2025 18:02

Tgt Ion: 65 Resp: 95954

Ion	Ratio	Lower	Upper
65	100		
67	50.0	0.0	105.0



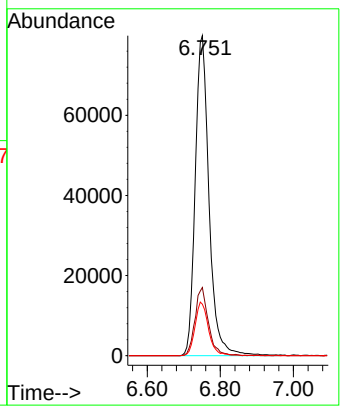


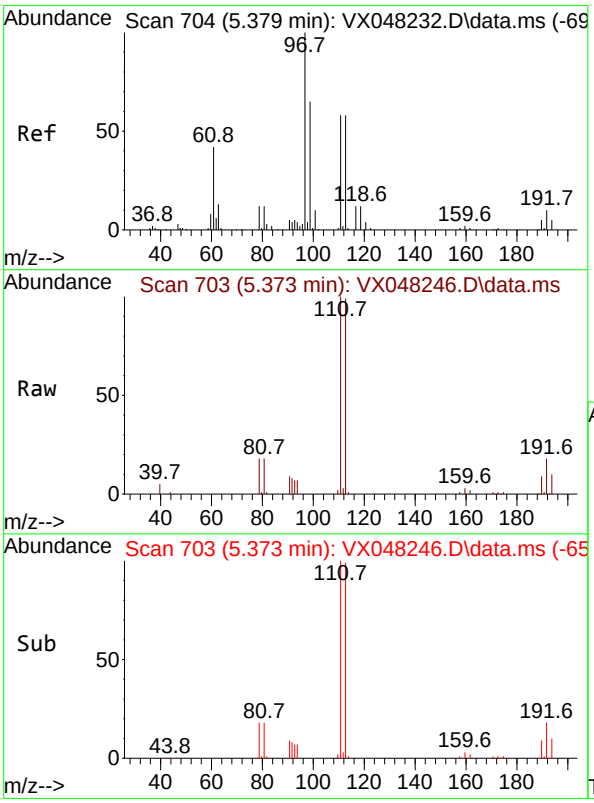
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX048246.D
Acq: 20 Oct 2025 18:02

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-920-922

Tgt Ion:114 Resp: 210478

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	43.2
88	16.1	0.0	33.6

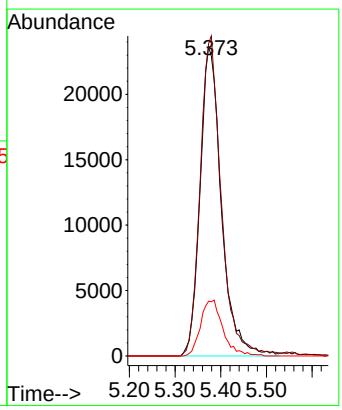


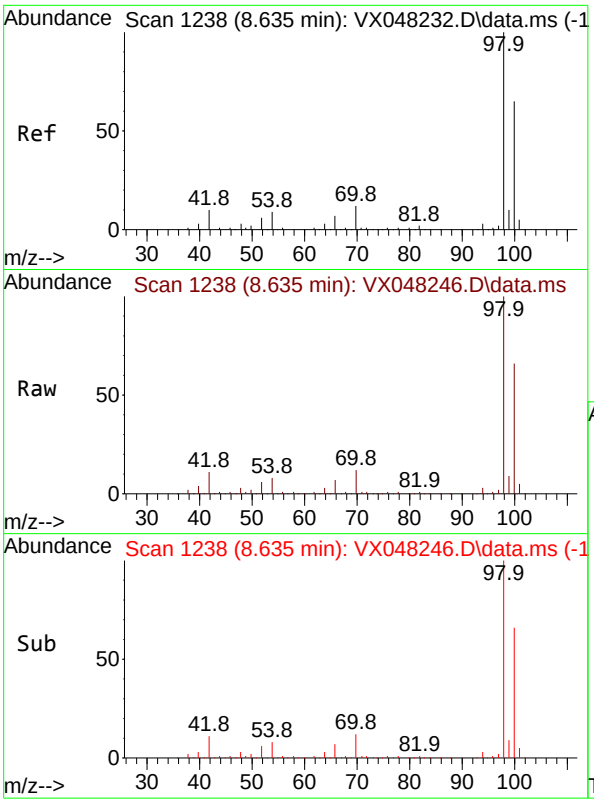


#35
Dibromofluoromethane
Concen: 53.242 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX048246.D
Acq: 20 Oct 2025 18:02

Tgt Ion:113 Resp: 76505

Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.2	123.4
192	18.9	15.1	22.7



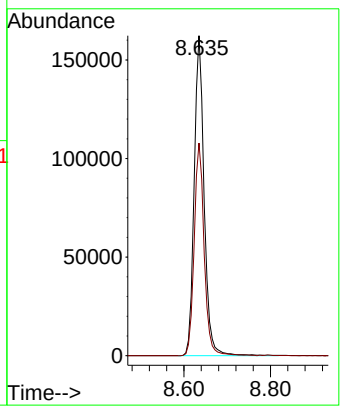


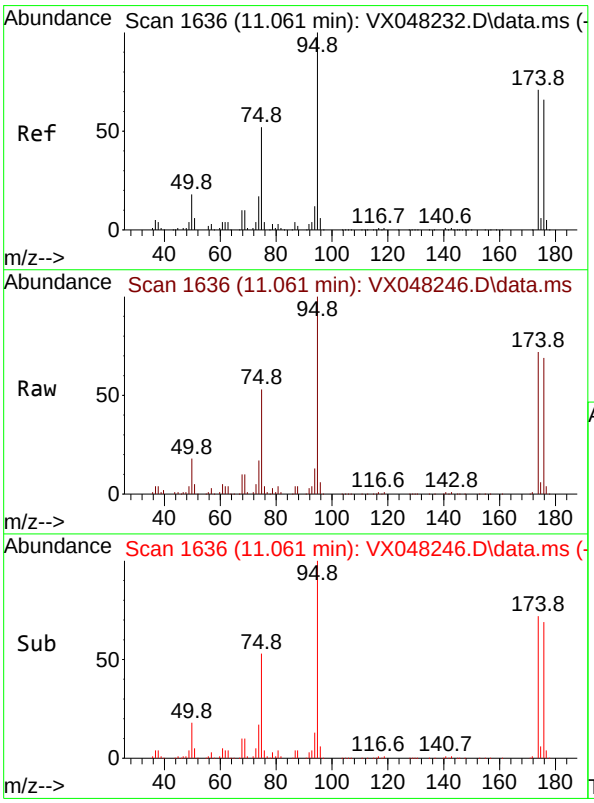
#50
Toluene-d8
Concen: 51.369 ug/l
RT: 8.635 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048246.D
Acq: 20 Oct 2025 18:02

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-920-922

Tgt Ion: 98 Resp: 258724

Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.0	79.4

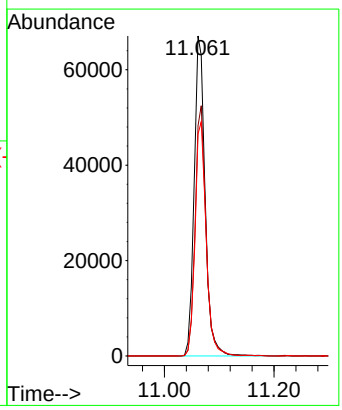


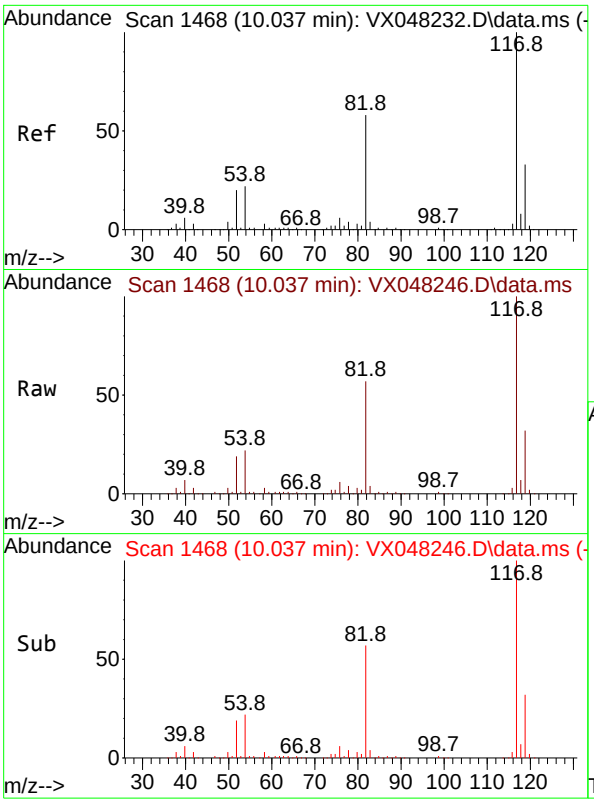


#62
4-Bromofluorobenzene
Concen: 48.719 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX048246.D
Acq: 20 Oct 2025 18:02

Tgt Ion: 95 Resp: 93348

Ion	Ratio	Lower	Upper
95	100		
174	77.3	0.0	147.8
176	74.7	0.0	142.8



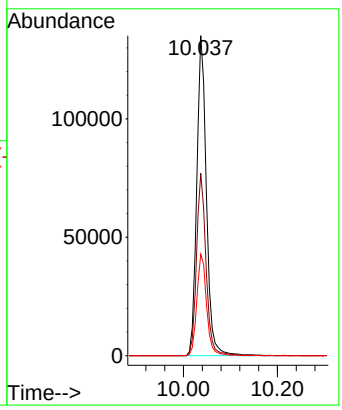


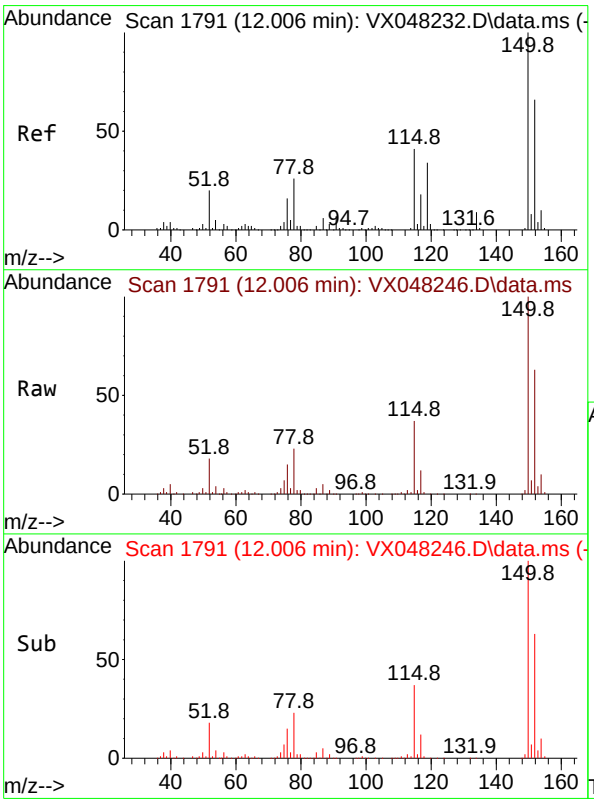
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048246.D
Acq: 20 Oct 2025 18:02

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-920-922

Tgt Ion:117 Resp: 193818

Ion	Ratio	Lower	Upper
117	100		
82	57.0	46.5	69.7
119	31.7	25.9	38.9

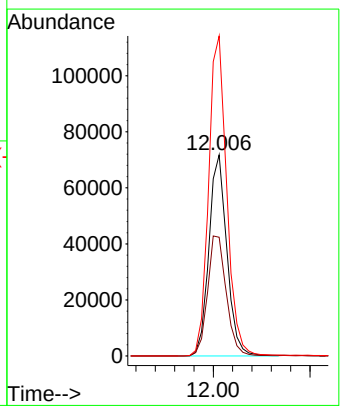




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX048246.D
Acq: 20 Oct 2025 18:02

Tgt Ion:152 Resp: 92863

Ion	Ratio	Lower	Upper
152	100		
115	62.2	43.1	129.4
150	160.4	0.0	353.0



Sample Results: **VX048246.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048246.D
Acq On : 20 Oct 2025 18:02
Operator : JC/MD
Sample : Q3371-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-920-922

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\82X102025W.M
Title : SW846 8260

Signal : TIC: VX048246.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.373	693	703	721	rBV2	76839	248308	36.25%	6.844%
2	5.544	721	731	748	rVB	117408	358773	52.38%	9.888%
3	5.946	786	797	820	rBV	87205	253256	36.97%	6.980%
4	6.751	919	929	951	rBV	186428	490796	71.65%	13.527%
5	8.635	1228	1238	1262	rBV	425120	684983	100.00%	18.879%
6	10.037	1463	1468	1484	rBV	408769	586611	85.64%	16.168%
7	11.061	1631	1636	1650	rBV	312923	443926	64.81%	12.235%
8	12.006	1785	1791	1802	rBV	417063	561540	81.98%	15.477%

Sum of corrected areas: 3628193

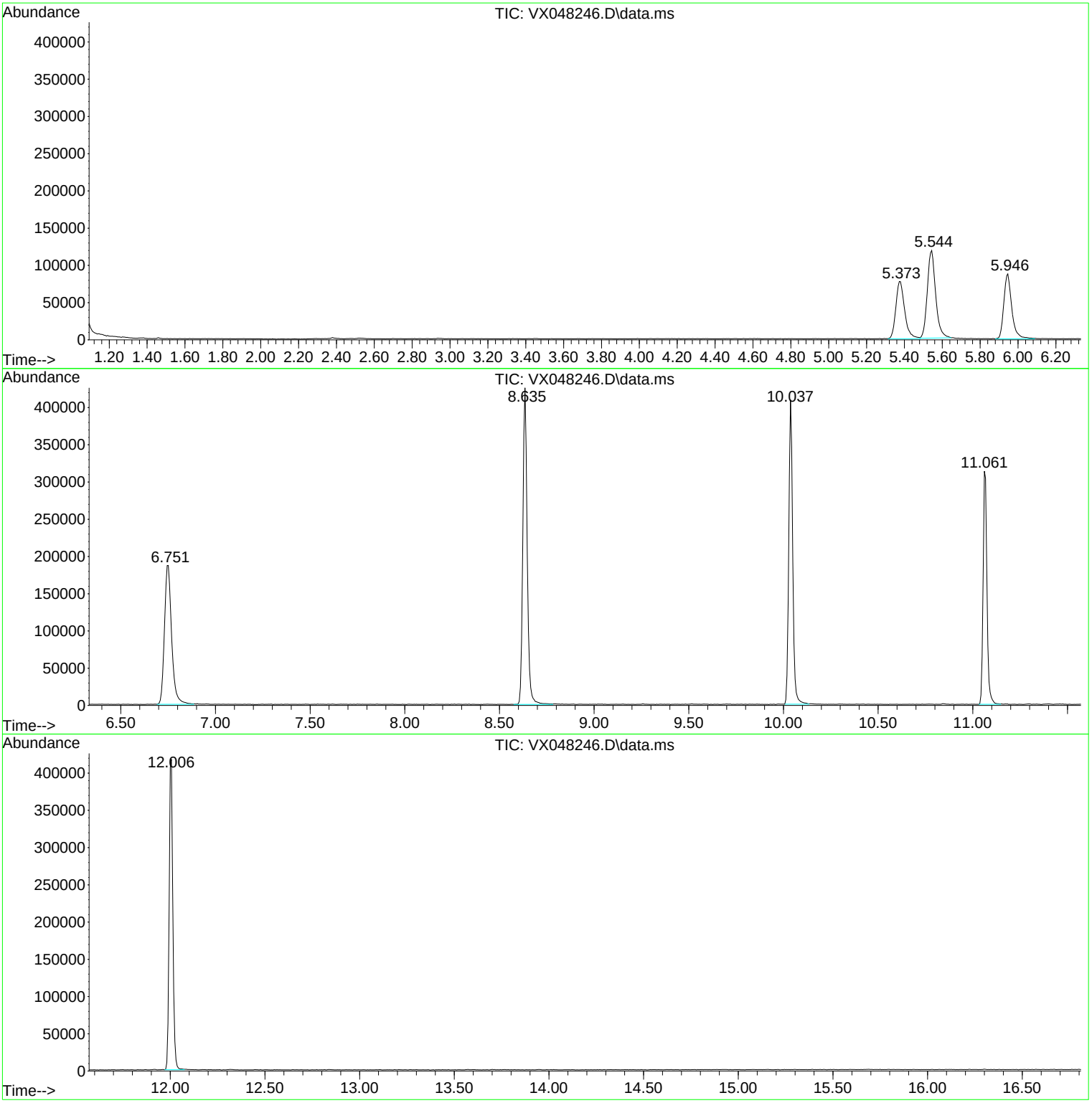
Sample Results: **VX048246.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048246.D
Acq On : 20 Oct 2025 18:02
Operator : JC/MD
Sample : Q3371-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-920-922

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VX048246.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048246.D
Acq On : 20 Oct 2025 18:02
Operator : JC/MD
Sample : Q3371-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-920-922

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Sample Results: **VX048246.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048246.D
Acq On : 20 Oct 2025 18:02
Operator : JC/MD
Sample : Q3371-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-920-922

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260

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

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

Raw Data: **VX048260.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/16/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	10/16/25
Client Sample ID:	VPB184-HYD-20251016	SDG No.:	Q3371
Lab Sample ID:	Q3371-06	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS										
75-71-8	Dichlorodifluoromethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/21/25 11:56	VX102125
74-87-3	Chloromethane	0.50	U	1	0.32	0.50	1.00	ug/L	10/21/25 11:56	VX102125
75-01-4	Vinyl Chloride	0.75	U	1	0.26	0.75	1.00	ug/L	10/21/25 11:56	VX102125
74-83-9	Bromomethane	3.80	U	1	1.40	3.80	5.00	ug/L	10/21/25 11:56	VX102125
75-00-3	Chloroethane	0.75	U	1	0.47	0.75	1.00	ug/L	10/21/25 11:56	VX102125
75-69-4	Trichlorofluoromethane	0.50	U	1	0.33	0.50	1.00	ug/L	10/21/25 11:56	VX102125
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	1	0.25	0.50	1.00	ug/L	10/21/25 11:56	VX102125
75-35-4	1,1-Dichloroethene	0.75	U	1	0.23	0.75	1.00	ug/L	10/21/25 11:56	VX102125
67-64-1	Acetone	3.80	U	1	1.50	3.80	5.00	ug/L	10/21/25 11:56	VX102125
75-15-0	Carbon Disulfide	0.75	U	1	0.21	0.75	1.00	ug/L	10/21/25 11:56	VX102125
1634-04-4	Methyl tert-butyl Ether	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 11:56	VX102125
79-20-9	Methyl Acetate	0.75	U	1	0.27	0.75	1.00	ug/L	10/21/25 11:56	VX102125
75-09-2	Methylene Chloride	0.50	U	1	0.28	0.50	1.00	ug/L	10/21/25 11:56	VX102125
156-60-5	trans-1,2-Dichloroethene	0.50	U	1	0.23	0.50	1.00	ug/L	10/21/25 11:56	VX102125
75-34-3	1,1-Dichloroethane	0.50	U	1	0.23	0.50	1.00	ug/L	10/21/25 11:56	VX102125
110-82-7	Cyclohexane	2.50	U	1	1.50	2.50	5.00	ug/L	10/21/25 11:56	VX102125
78-93-3	2-Butanone	2.50	U	1	0.98	2.50	5.00	ug/L	10/21/25 11:56	VX102125
56-23-5	Carbon Tetrachloride	0.50	U	1	0.25	0.50	1.00	ug/L	10/21/25 11:56	VX102125
156-59-2	cis-1,2-Dichloroethene	0.75	U	1	0.19	0.75	1.00	ug/L	10/21/25 11:56	VX102125
74-97-5	Bromochloromethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/21/25 11:56	VX102125
67-66-3	Chloroform	0.50	U	1	0.25	0.50	1.00	ug/L	10/21/25 11:56	VX102125
71-55-6	1,1,1-Trichloroethane	0.50	U	1	0.20	0.50	1.00	ug/L	10/21/25 11:56	VX102125
108-87-2	Methylcyclohexane	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 11:56	VX102125
71-43-2	Benzene	0.50	U	1	0.15	0.50	1.00	ug/L	10/21/25 11:56	VX102125
107-06-2	1,2-Dichloroethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/21/25 11:56	VX102125
79-01-6	Trichloroethene	0.75	U	1	0.090	0.75	1.00	ug/L	10/21/25 11:56	VX102125
78-87-5	1,2-Dichloropropane	0.50	U	1	0.20	0.50	1.00	ug/L	10/21/25 11:56	VX102125
75-27-4	Bromodichloromethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/21/25 11:56	VX102125
108-10-1	4-Methyl-2-Pentanone	2.50	U	1	0.68	2.50	5.00	ug/L	10/21/25 11:56	VX102125
108-88-3	Toluene	0.50	U	1	0.14	0.50	1.00	ug/L	10/21/25 11:56	VX102125
10061-02-6	t-1,3-Dichloropropene	0.50	U	1	0.17	0.50	1.00	ug/L	10/21/25 11:56	VX102125
10061-01-5	cis-1,3-Dichloropropene	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 11:56	VX102125
79-00-5	1,1,2-Trichloroethane	0.50	U	1	0.21	0.50	1.00	ug/L	10/21/25 11:56	VX102125
591-78-6	2-Hexanone	2.50	U	1	0.89	2.50	5.00	ug/L	10/21/25 11:56	VX102125
124-48-1	Dibromochloromethane	0.50	U	1	0.18	0.50	1.00	ug/L	10/21/25 11:56	VX102125
106-93-4	1,2-Dibromoethane	0.50	U	1	0.15	0.50	1.00	ug/L	10/21/25 11:56	VX102125
127-18-4	Tetrachloroethene	0.50	U	1	0.23	0.50	1.00	ug/L	10/21/25 11:56	VX102125
108-90-7	Chlorobenzene	0.50	U	1	0.12	0.50	1.00	ug/L	10/21/25 11:56	VX102125
100-41-4	Ethyl Benzene	0.50	U	1	0.13	0.50	1.00	ug/L	10/21/25 11:56	VX102125
179601-23-1	m/p-Xylenes	1.00	U	1	0.24	1.00	2.00	ug/L	10/21/25 11:56	VX102125
95-47-6	o-Xylene	0.50	U	1	0.12	0.50	1.00	ug/L	10/21/25 11:56	VX102125
100-42-5	Styrene	0.50	U	1	0.15	0.50	1.00	ug/L	10/21/25 11:56	VX102125
75-25-2	Bromoform	0.50	U	1	0.19	0.50	1.00	ug/L	10/21/25 11:56	VX102125

Raw Data: **VX048260.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/16/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	10/16/25
Client Sample ID:	VPB184-HYD-20251016	SDG No.:	Q3371
Lab Sample ID:	Q3371-06	Matrix:	Water
Analytical Method:	8260D Level : LOW	% Solid:	0
Sample Wt/Vol:	5 mL Final Vol: 5000 uL	Test:	VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.50	U	1	0.12	0.50	1.00	ug/L	10/21/25 11:56	VX102125
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	1	0.26	0.50	1.00	ug/L	10/21/25 11:56	VX102125
541-73-1	1,3-Dichlorobenzene	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 11:56	VX102125
106-46-7	1,4-Dichlorobenzene	0.50	U	1	0.19	0.50	1.00	ug/L	10/21/25 11:56	VX102125
95-50-1	1,2-Dichlorobenzene	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 11:56	VX102125
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	1	0.53	0.75	1.00	ug/L	10/21/25 11:56	VX102125
120-82-1	1,2,4-Trichlorobenzene	0.50	U	1	0.20	0.50	1.00	ug/L	10/21/25 11:56	VX102125
87-61-6	1,2,3-Trichlorobenzene	0.75	U	1	0.20	0.75	1.00	ug/L	10/21/25 11:56	VX102125
SURROGATES										
17060-07-0	1,2-Dichloroethane-d4	54.8			81 - 118		110%	SPK: 50		
1868-53-7	Dibromofluoromethane	47.2			80 - 119		94%	SPK: 50		
2037-26-5	Toluene-d8	46.8			89 - 112		94%	SPK: 50		
460-00-4	4-Bromofluorobenzene	55.5			85 - 114		111%	SPK: 50		
INTERNAL STANDARDS		**Area Count**								
363-72-4	Pentafluorobenzene	106000								
540-36-3	1,4-Difluorobenzene	214000								
3114-55-4	Chlorobenzene-d5	228000								
3855-82-1	1,4-Dichlorobenzene-d4	118000								
TENTATIVE IDENTIFIED COMPOUNDS										
75-43-4	Dichlorofluoromethane	N.D								

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

Sample Results: **VX048260.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048260.D
Acq On : 21 Oct 2025 11:56
Operator : JC/MD
Sample : Q3371-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251016

Quant Time: Oct 24 04:26:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	105728	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	214439	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	228141	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	117921	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	81298	54.843	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 109.680%			
35) Dibromofluoromethane	5.373	113	69132	47.223	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.440%			
50) Toluene-d8	8.635	98	240280	46.826	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 93.660%			
62) 4-Bromofluorobenzene	11.061	95	108316	55.487	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 110.980%			

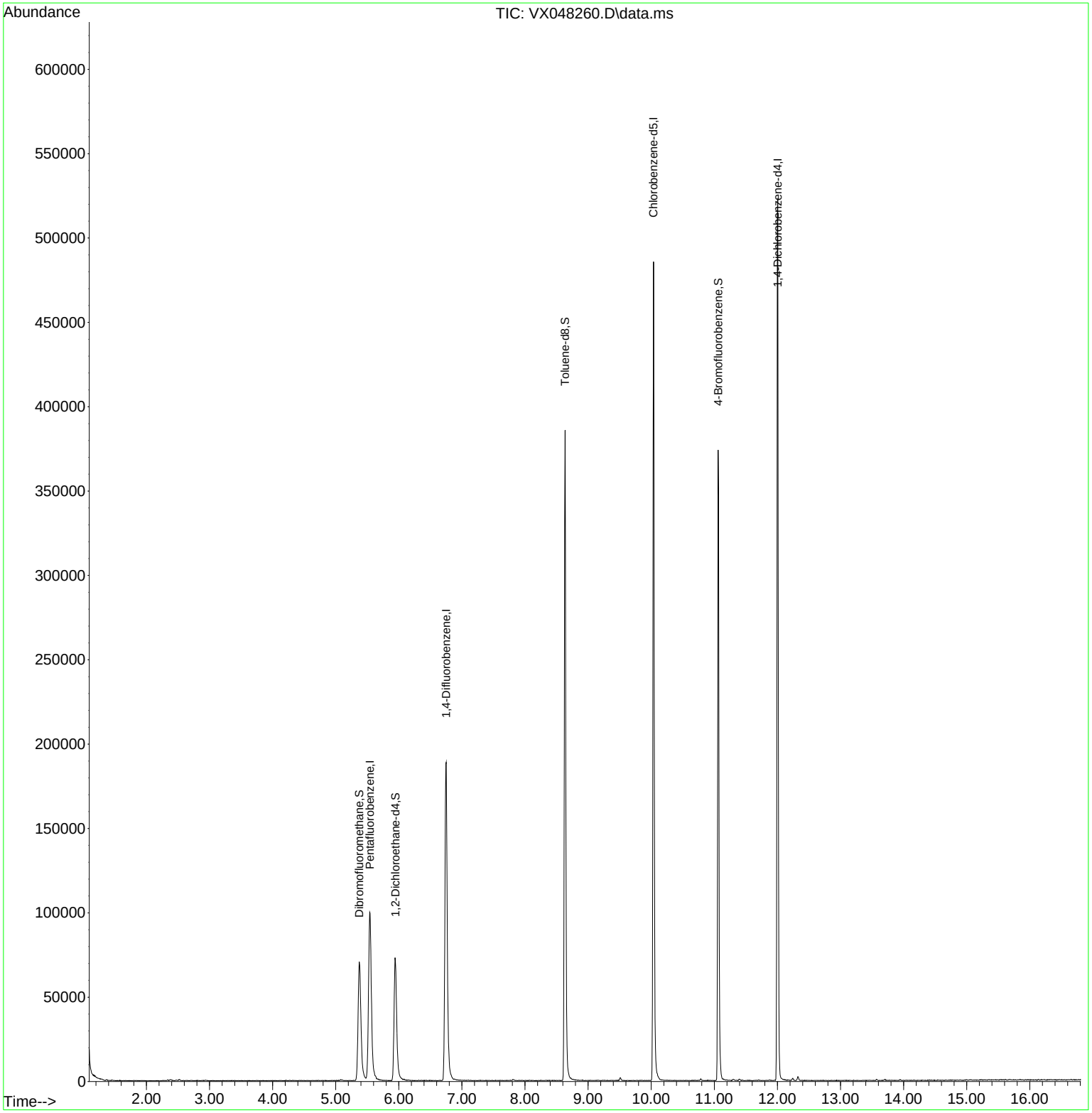
Target Compounds Qvalue

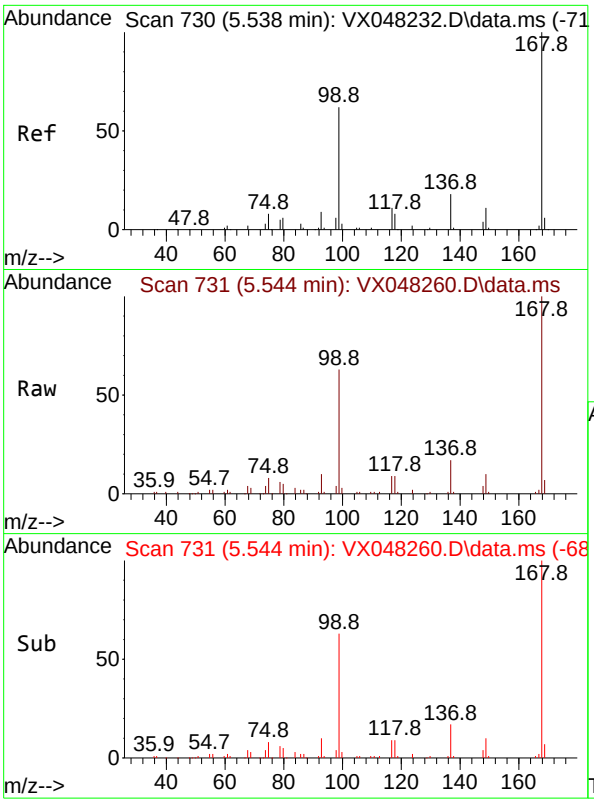
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048260.D
Acq On : 21 Oct 2025 11:56
Operator : JC/MD
Sample : Q3371-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251016

Quant Time: Oct 24 04:26:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration



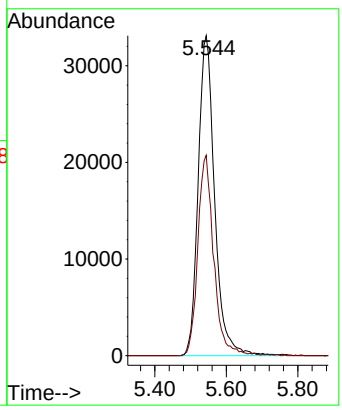


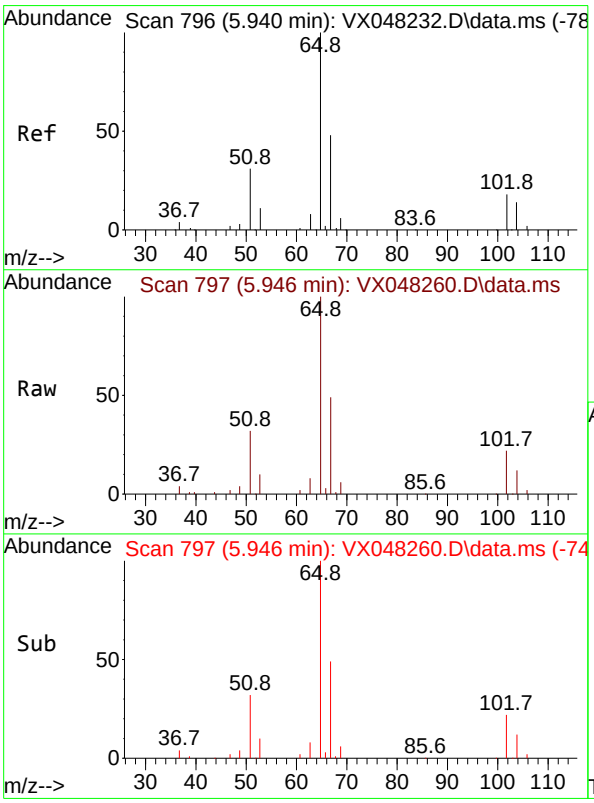
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048260.D
Acq: 21 Oct 2025 11:56

Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251016

Tgt Ion:168 Resp: 105728

Ion	Ratio	Lower	Upper
168	100		
99	62.6	46.4	69.6

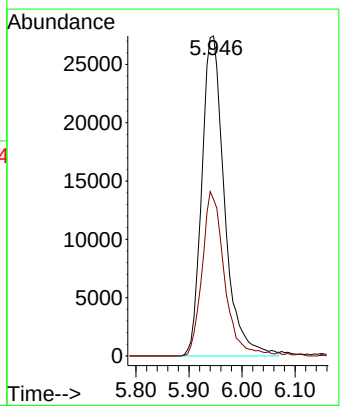


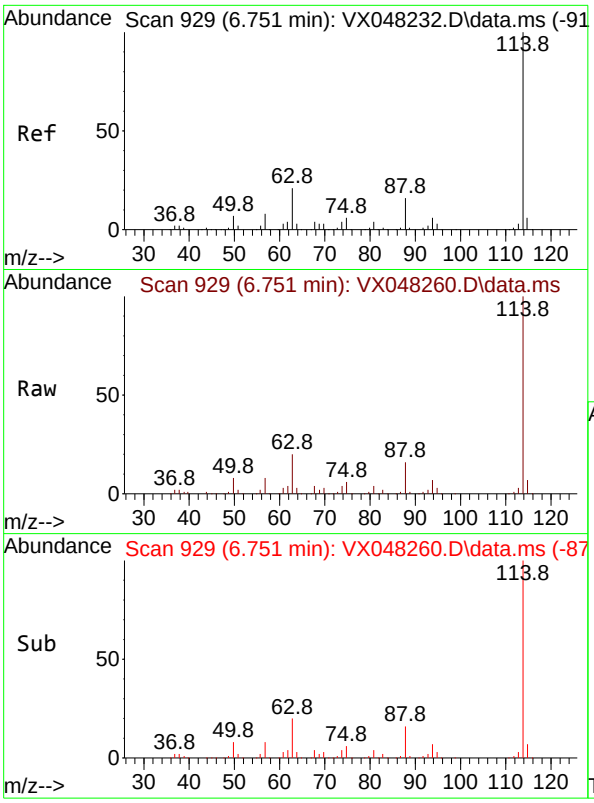


#33
1,2-Dichloroethane-d4
Concen: 54.843 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX048260.D
Acq: 21 Oct 2025 11:56

Tgt Ion: 65 Resp: 81298

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	105.0



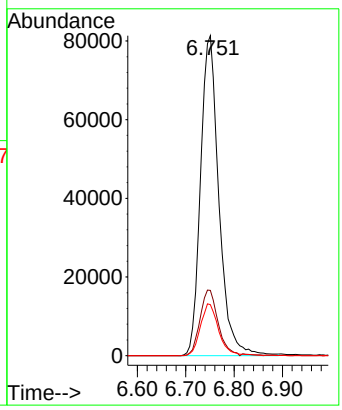


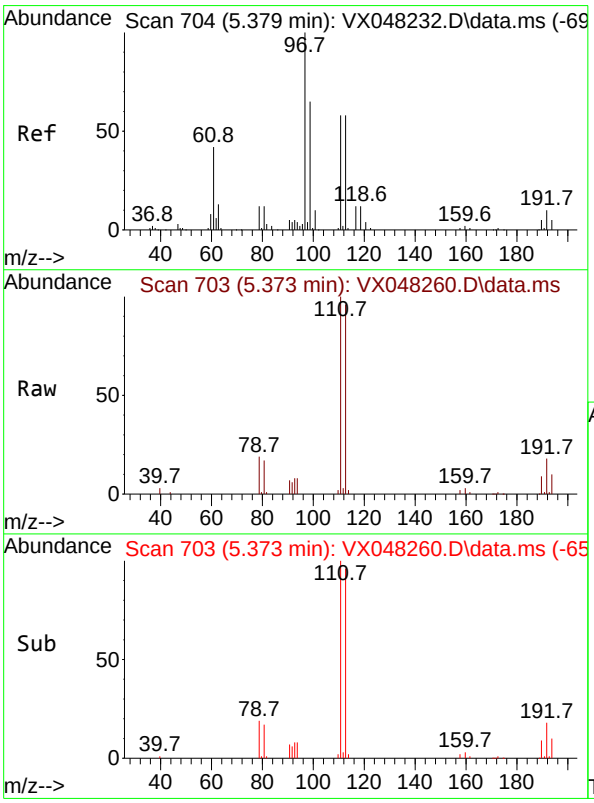
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX048260.D
Acq: 21 Oct 2025 11:56

Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251016

Tgt Ion:114 Resp: 214439

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	43.2
88	15.9	0.0	33.6

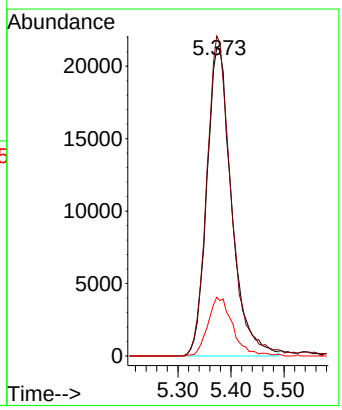


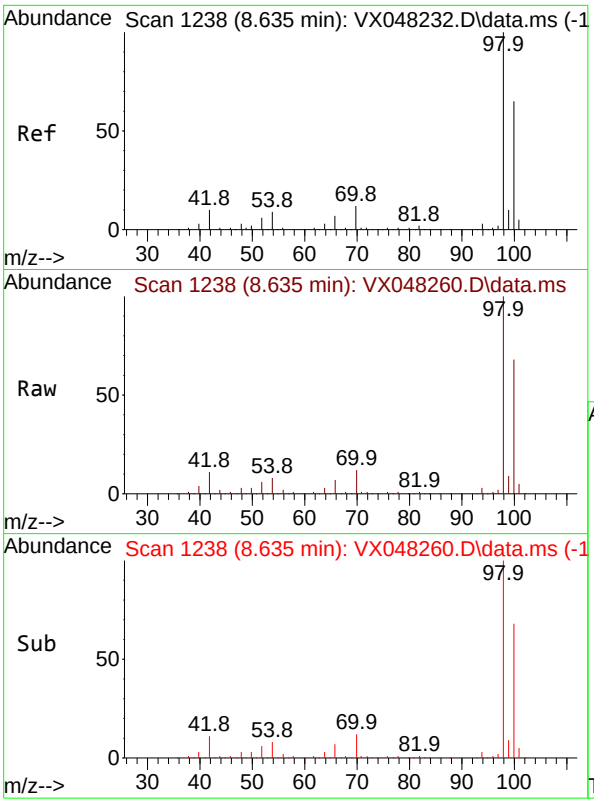


#35
Dibromofluoromethane
Concen: 47.223 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048260.D
Acq: 21 Oct 2025 11:56

Tgt Ion:113 Resp: 69132

Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.2	123.4
192	19.1	15.1	22.7



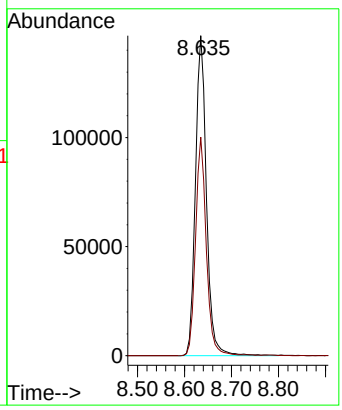


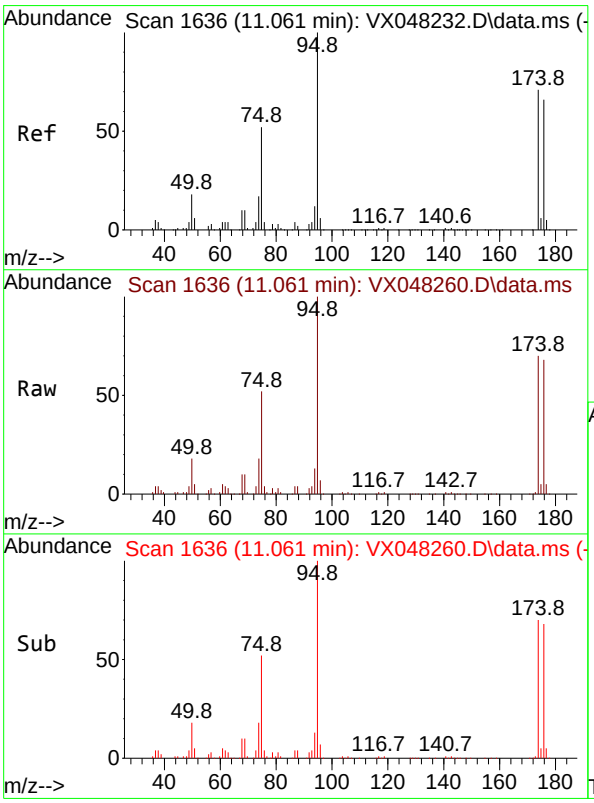
#50
Toluene-d8
Concen: 46.826 ug/l
RT: 8.635 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048260.D
Acq: 21 Oct 2025 11:56

Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251016

Tgt Ion: 98 Resp: 240280

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.0	79.4

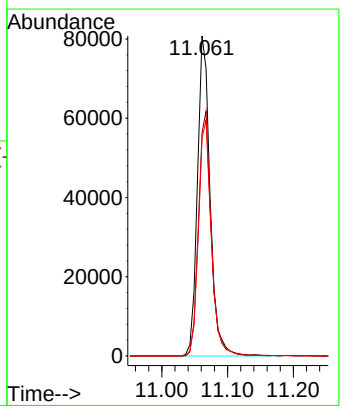


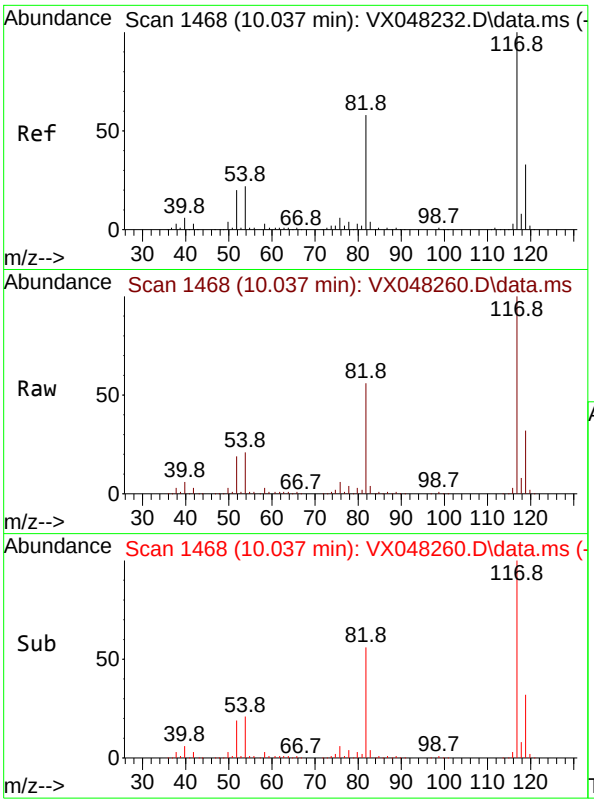


#62
4-Bromofluorobenzene
Concen: 55.487 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048260.D
Acq: 21 Oct 2025 11:56

Tgt Ion: 95 Resp: 108316

Ion	Ratio	Lower	Upper
95	100		
174	76.8	0.0	147.8
176	74.7	0.0	142.8



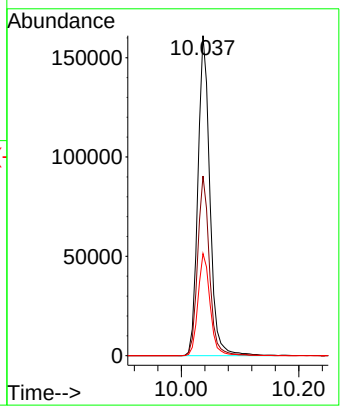


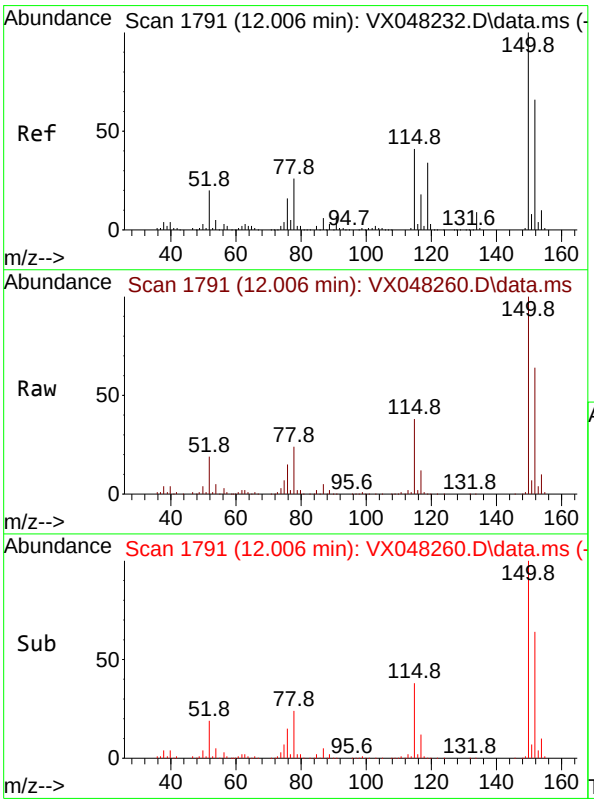
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048260.D
Acq: 21 Oct 2025 11:56

Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251016

Tgt Ion:117 Resp: 228141

Ion	Ratio	Lower	Upper
117	100		
82	56.2	46.5	69.7
119	31.9	25.9	38.9

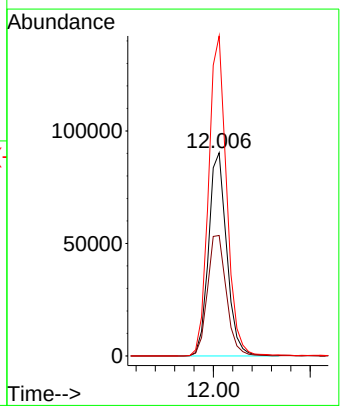




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048260.D
Acq: 21 Oct 2025 11:56

Tgt Ion:152 Resp: 117921

Ion	Ratio	Lower	Upper
152	100		
115	61.9	43.1	129.4
150	156.6	0.0	353.0



Sample Results: **VX048260.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048260.D
Acq On : 21 Oct 2025 11:56
Operator : JC/MD
Sample : Q3371-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251016

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\82X102025W.M
Title : SW846 8260

Signal : TIC: VX048260.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.373	693	703	720	rBV3	70369	224208	31.75%	5.936%
2	5.538	720	730	748	rVB	98953	308056	43.62%	8.156%
3	5.940	786	796	816	rBV	72986	214397	30.36%	5.677%
4	6.751	918	929	948	rBV	188634	496982	70.37%	13.159%
5	8.635	1231	1238	1252	rBV	385385	629446	89.13%	16.666%
6	10.037	1462	1468	1486	rBV	485271	688662	97.51%	18.234%
7	11.061	1631	1636	1648	rBV	373652	508884	72.06%	13.474%
8	12.006	1785	1791	1806	rBV	522637	706226	100.00%	18.699%

Sum of corrected areas: 3776861

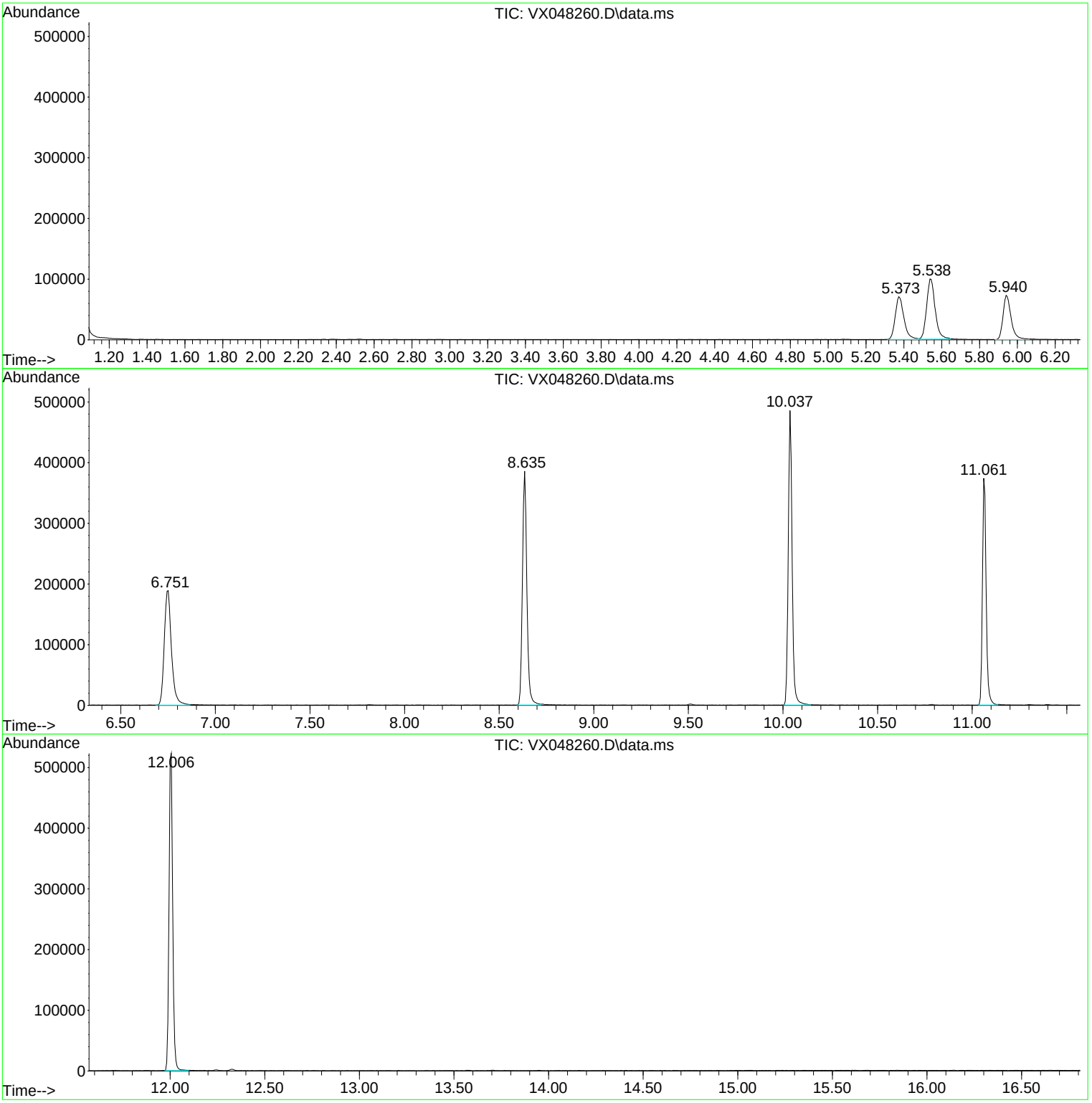
Sample Results: **VX048260.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048260.D
Acq On : 21 Oct 2025 11:56
Operator : JC/MD
Sample : Q3371-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251016

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VX048260.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048260.D
Acq On : 21 Oct 2025 11:56
Operator : JC/MD
Sample : Q3371-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251016

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.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\VX102125\
Data File : VX048260.D
Acq On : 21 Oct 2025 11:56
Operator : JC/MD
Sample : Q3371-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251016

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260

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

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

CALIBRATION SUMMARY

Raw Data

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG No.: Q3371

Instrument ID: MSVOA_X Calibration Date(s): 10/20/2025 10/20/2025

Heated Purge: (Y/N) N Calibration Time(s): 10:59 13:49

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

LAB FILE ID: RRF001 = VX048229.D RRF020 = VX048231.D RRF050 = VX048232.D
RRF100 = VX048233.D RRF150 = VX048234.D RRF005 = VX048236.D

COMPOUND	RRF001	RRF020	RRF050	RRF100	RRF150	RRF005	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.522	0.513	0.483	0.540	0.504	0.522	0.514	3.7
Chloromethane	0.506	0.468	0.449	0.476	0.471	0.508	0.480	4.8
Vinyl Chloride	0.447	0.437	0.416	0.462	0.445	0.458	0.444	3.7
Bromomethane		0.323	0.282	0.280	0.276	0.346	0.302	10.4
Chloroethane	0.233	0.277	0.247	0.282	0.267	0.261	0.261	7.2
Trichlorofluoromethane	0.776	0.874	0.807	0.907	0.869	0.880	0.852	5.8
1,1,2-Trichlorotrifluoroethane	0.512	0.540	0.501	0.583	0.549	0.553	0.540	5.5
1,1-Dichloroethene	0.515	0.548	0.485	0.558	0.531	0.514	0.525	5
Acetone	0.300	0.250	0.202	0.221	0.206	0.262	0.240	15.7
Carbon Disulfide	2.034	1.612	1.442	1.617	1.532	1.689	1.654	12.4
Methyl tert-butyl Ether	1.894	1.909	1.704	1.817	1.764	1.657	1.791	5.7
Methyl Acetate	0.514	0.551	0.466	0.514	0.504	0.464	0.502	6.6
Methylene Chloride	0.555	0.651	0.552	0.597	0.567	0.595	0.586	6.4
trans-1,2-Dichloroethene	0.587	0.585	0.535	0.592	0.558	0.603	0.577	4.4
1,1-Dichloroethane	1.116	1.085	0.977	1.055	1.019	1.054	1.051	4.6
Cyclohexane		0.894	0.821	0.926	0.866	0.843	0.870	4.8
2-Butanone	0.311	0.329	0.281	0.301	0.290	0.315	0.304	5.7
Carbon Tetrachloride	0.650	0.594	0.553	0.604	0.567	0.622	0.599	5.9
cis-1,2-Dichloroethene	0.682	0.700	0.626	0.695	0.661	0.673	0.673	4
Bromochloromethane	0.388	0.404	0.441	0.462	0.452	0.469	0.436	7.5
Chloroform	1.147	1.208	1.046	1.127	1.067	1.143	1.123	5.2
1,1,1-Trichloroethane	1.049	1.085	0.973	1.055	1.007	1.041	1.035	3.8
Methylcyclohexane	0.551	0.548	0.540	0.626	0.582	0.590	0.573	5.7
Benzene	1.493	1.480	1.301	1.426	1.347	1.405	1.409	5.3
1,2-Dichloroethane	0.529	0.566	0.500	0.528	0.496	0.499	0.520	5.2
Trichloroethene	0.400	0.373	0.348	0.380	0.363	0.366	0.372	4.7
1,2-Dichloropropane	0.309	0.362	0.321	0.347	0.333	0.337	0.335	5.5
Bromodichloromethane	0.570	0.592	0.538	0.573	0.538	0.567	0.563	3.8
4-Methyl-2-Pentanone	0.366	0.422	0.377	0.384	0.362	0.374	0.381	5.7
Toluene	0.881	0.944	0.862	0.910	0.849	0.925	0.895	4.2

* 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.

Raw Data

Alliance TECHNICAL GROUP

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance | Contract: TETR06

Lab Code: ACE | SDG No.: Q3371

Instrument ID: MSVOA_X | Calibration Date(s): 10/20/2025 10/20/2025

Heated Purge: (Y/N) N | Calibration Time(s): 10:59 13:49

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

LAB FILE ID: RRF001 = VX048229.D RRF020 = VX048231.D RRF050 = VX048232.D
RRF100 = VX048233.D RRF150 = VX048234.D RRF005 = VX048236.D

COMPOUND	RRF001	RRF020	RRF050	RRF100	RRF150	RRF005	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.477	0.582	0.545	0.574	0.553	0.526	0.543	7
cis-1,3-Dichloropropene	0.582	0.604	0.572	0.615	0.585	0.556	0.586	3.7
1,1,2-Trichloroethane	0.318	0.357	0.321	0.333	0.313	0.355	0.333	5.8
2-Hexanone	0.231	0.298	0.267	0.271	0.256	0.271	0.266	8.3
Dibromochloromethane	0.482	0.476	0.425	0.442	0.418	0.441	0.447	5.9
1,2-Dibromoethane	0.346	0.393	0.342	0.359	0.336	0.353	0.355	5.7
Tetrachloroethene	0.418	0.378	0.328	0.370	0.361	0.385	0.373	7.9
Chlorobenzene	1.149	1.159	1.045	1.148	1.102	1.145	1.125	3.9
Ethyl Benzene	1.905	1.954	1.825	2.008	1.922	1.876	1.915	3.3
m/p-Xylenes	0.647	0.750	0.687	0.750	0.707	0.727	0.712	5.6
o-Xylene	0.652	0.712	0.664	0.723	0.686	0.684	0.687	3.9
Styrene	1.054	1.236	1.143	1.247	1.173	1.165	1.170	6
Bromoform	0.338	0.350	0.308	0.335	0.326	0.325	0.330	4.3
Isopropylbenzene	3.618	3.656	3.430	3.875	3.754	3.579	3.652	4.2
1,1,2,2-Tetrachloroethane	0.988	1.065	0.946	1.018	0.992	0.974	0.997	4.1
1,3-Dichlorobenzene	1.863	1.742	1.550	1.747	1.707	1.750	1.726	5.9
1,4-Dichlorobenzene	2.143	1.803	1.577	1.724	1.710	1.772	1.788	10.6
1,2-Dichlorobenzene	1.803	1.631	1.494	1.619	1.588	1.590	1.621	6.3
1,2-Dibromo-3-Chloropropane	0.167	0.219	0.195	0.224	0.223	0.187	0.202	11.5
1,2,4-Trichlorobenzene	1.441	0.975	0.959	1.114	1.094	0.994	1.096	16.5
1,2,3-Trichlorobenzene	1.154	0.942	0.909	1.050	1.033	0.947	1.006	9
1,2-Dichloroethane-d4		0.709	0.682	0.690	0.698	0.725	0.701	2.4
Dibromofluoromethane		0.345	0.330	0.346	0.348	0.338	0.341	2.2
Toluene-d8		1.185	1.185	1.196	1.195	1.221	1.196	1.2
4-Bromofluorobenzene		0.445	0.444	0.446	0.441	0.500	0.455	5.5

* 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.

Response Factor Report MSVOA_X2

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X102025W.M
Title : SW846 8260
Last Update : Mon Oct 20 14:13:59 2025
Response Via : Initial Calibration

Calibration Files
1 =VX048229.D 5 =VX048236.D 20 =VX048231.D 50 =VX048232.D 100 =VX048233.D 150 =VX048234.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.522	0.522	0.513	0.483	0.540	0.504	0.514	3.74
3)	P	Chloromethane	0.506	0.508	0.468	0.449	0.476	0.471	0.480	4.81
4)	C	Vinyl Chloride	0.447	0.458	0.437	0.416	0.462	0.445	0.444	3.69#
5)	T	Bromomethane		0.346	0.323	0.282	0.280	0.276	0.302	10.42
6)	T	Chloroethane	0.233	0.261	0.277	0.247	0.282	0.267	0.261	7.16
7)	T	Trichlorofluor...	0.776	0.880	0.874	0.807	0.907	0.869	0.852	5.83
8)	T	Diethyl Ether	0.231	0.237	0.257	0.223	0.248	0.242	0.240	5.06
9)	T	1,1,2-Trichlor...	0.512	0.553	0.540	0.501	0.583	0.549	0.540	5.48
10)	T	Methyl Iodide		0.569	0.636	0.663	0.781	0.742	0.678	12.47
11)	T	Tert butyl alc...		0.087	0.069	0.062	0.067	0.064	0.070	14.22
12)	CM	1,1-Dichloroet...	0.515	0.514	0.548	0.485	0.558	0.531	0.525	5.03#
13)	T	Acrolein		0.079	0.063	0.065	0.074	0.073	0.071	9.21
14)	T	Allyl chloride	0.897	0.833	0.909	0.805	0.911	0.874	0.872	5.00
15)	T	Acrylonitrile	0.255	0.245	0.267	0.239	0.254	0.246	0.251	3.89
16)	T	Acetone	0.300	0.262	0.250	0.202	0.221	0.206	0.240	15.70
17)	T	Carbon Disulfide	2.034	1.689	1.612	1.442	1.617	1.532	1.654	12.36
18)	T	Methyl Acetate	0.514	0.464	0.551	0.466	0.514	0.504	0.502	6.56
19)	T	Methyl tert-bu...	1.894	1.657	1.909	1.704	1.817	1.764	1.791	5.66
20)	T	Methylene Chlo...	0.555	0.595	0.651	0.552	0.597	0.567	0.586	6.36
21)	T	trans-1,2-Dich...	0.587	0.603	0.585	0.535	0.592	0.558	0.577	4.38
22)	T	Diisopropyl ether	1.697	1.701	1.881	1.662	1.787	1.701	1.738	4.69
23)	T	Vinyl Acetate	1.261	1.326	1.521	1.348	1.466	1.408	1.389	6.90
24)	P	1,1-Dichloroet...	1.116	1.054	1.085	0.977	1.055	1.019	1.051	4.64
25)	T	2-Butanone		0.311	0.315	0.329	0.281	0.301	0.290	0.304	5.70
26)	T	2,2-Dichloropr...	1.002	0.945	0.973	0.876	0.973	0.924	0.949	4.69
27)	T	cis-1,2-Dichlo...	0.682	0.673	0.700	0.626	0.695	0.661	0.673	4.03
28)	T	Bromochloromet...	0.388	0.469	0.404	0.441	0.462	0.452	0.436	7.52
29)	T	Tetrahydrofuran	0.178	0.183	0.198	0.171	0.184	0.180	0.182	5.00
30)	C	Chloroform	1.147	1.143	1.208	1.046	1.127	1.067	1.123	5.22#
31)	T	Cyclohexane		0.843	0.894	0.821	0.926	0.866	0.870	4.76
32)	T	1,1,1-Trichlor...	1.049	1.041	1.085	0.973	1.055	1.007	1.035	3.83
33)	S	1,2-Dichloroet...		0.725	0.709	0.682	0.690	0.698	0.701	2.40
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.338	0.345	0.330	0.346	0.348	0.341	2.17
36)	T	1,1-Dichloropr...	0.562	0.475	0.491	0.433	0.490	0.460	0.485	8.96
37)	T	Ethyl Acetate	0.459	0.396	0.396	0.368	0.410	0.384	0.402	7.71
38)	T	Carbon Tetrach...	0.650	0.622	0.594	0.553	0.604	0.567	0.599	5.95
39)	T	Methylcyclohexane	0.551	0.590	0.548	0.540	0.626	0.582	0.573	5.73
40)	TM	Benzene	1.493	1.405	1.480	1.301	1.426	1.347	1.409	5.30
41)	T	Methacrylonitrile	0.192	0.198	0.237	0.205	0.223	0.213	0.211	7.85
42)	TM	1,2-Dichloroet...	0.529	0.499	0.566	0.500	0.528	0.496	0.520	5.23
43)	T	Isopropyl Acetate	0.659	0.612	0.709	0.635	0.682	0.665	0.661	5.16
44)	TM	Trichloroethene	0.400	0.366	0.373	0.348	0.380	0.363	0.372	4.73
45)	C	1,2-Dichloropr...	0.309	0.337	0.362	0.321	0.347	0.333	0.335	5.54#
46)	T	Dibromomethane	0.267	0.264	0.277	0.247	0.261	0.249	0.261	4.35
47)	T	Bromodichlorom...	0.570	0.567	0.592	0.538	0.573	0.538	0.563	3.79
48)	T	Methyl methacr...	0.332	0.300	0.356	0.322	0.350	0.340	0.333	6.07
49)	T	1,4-Dioxane	0.003	0.004	0.005	0.004	0.005	0.005	0.004	12.99
50)	S	Toluene-d8		1.221	1.185	1.185	1.195	1.195	1.196	1.22
51)	T	4-Methyl-2-Pen...	0.366	0.374	0.422	0.377	0.384	0.362	0.381	5.71
52)	CM	Toluene	0.881	0.925	0.944	0.861	0.910	0.849	0.895	4.15#
53)	T	t-1,3-Dichloro...	0.477	0.526	0.582	0.545	0.574	0.553	0.543	7.02
54)	T	cis-1,3-Dichlo...	0.582	0.556	0.604	0.572	0.615	0.585	0.586	3.67
55)	T	1,1,2-Trichlor...	0.318	0.355	0.357	0.321	0.333	0.313	0.333	5.78
56)	T	Ethyl methacry...	0.418	0.451	0.536	0.490	0.524	0.502	0.487	9.17

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X102025W.M

57)	T	1,3-Dichloropr...	0.563	0.572	0.614	0.548	0.572	0.541	0.568	4.51
58)	T	2-Chloroethyl ...	0.154	0.182	0.269	0.260	0.269	0.260	0.232	21.93
59)	T	2-Hexanone	0.231	0.271	0.298	0.267	0.271	0.256	0.266	8.30
60)	T	Dibromochlorom...	0.482	0.441	0.476	0.425	0.442	0.418	0.447	5.89
61)	T	1,2-Dibromoethane	0.346	0.353	0.393	0.342	0.359	0.336	0.355	5.72
62)	S	4-Bromofluorob...		0.500	0.445	0.444	0.446	0.441	0.455	5.51
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.418	0.385	0.378	0.328	0.370	0.361	0.373	7.92
65)	PM	Chlorobenzene	1.149	1.145	1.159	1.045	1.148	1.102	1.125	3.89
66)	T	1,1,1,2-Tetrac...	0.422	0.405	0.423	0.390	0.430	0.409	0.413	3.53
67)	C	Ethyl Benzene	1.905	1.876	1.954	1.825	2.008	1.922	1.915	3.30#
68)	T	m/p-Xylenes	0.647	0.727	0.750	0.687	0.750	0.707	0.712	5.60
69)	T	o-Xylene	0.652	0.684	0.712	0.664	0.723	0.686	0.687	3.93
70)	T	Styrene	1.054	1.165	1.236	1.143	1.247	1.173	1.170	5.98
71)	P	Bromoform	0.338	0.325	0.350	0.308	0.335	0.326	0.330	4.27
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.618	3.579	3.656	3.430	3.875	3.754	3.652	4.17
74)	T	N-amyl acetate	1.229	1.150	1.339	1.248	1.415	1.392	1.295	7.97
75)	P	1,1,2,2-Tetrac...	0.988	0.974	1.065	0.946	1.018	0.992	0.997	4.08
76)	T	1,2,3-Trichlor...	0.929	0.767	0.822	0.735	0.810	0.802	0.811	8.14
77)	T	Bromobenzene	0.940	0.897	0.930	0.858	0.953	0.916	0.916	3.73
78)	T	n-propylbenzene	4.000	4.169	4.255	4.017	4.544	4.385	4.228	5.02
79)	T	2-Chlorotoluene	2.575	2.512	2.615	2.397	2.693	2.590	2.564	3.92
80)	T	1,3,5-Trimethy...	2.988	2.889	3.079	2.861	3.222	3.094	3.022	4.53
81)	T	trans-1,4-Dich...		0.287	0.330	0.316	0.366	0.368	0.333	10.35
82)	T	4-Chlorotoluene	3.097	2.958	3.119	2.883	3.143	3.059	3.043	3.34
83)	T	tert-Butylbenzene	3.128	3.047	3.086	2.915	3.282	3.173	3.105	3.98
84)	T	1,2,4-Trimethy...	2.791	2.991	3.077	2.864	3.247	3.126	3.016	5.61
85)	T	sec-Butylbenzene	3.789	3.690	3.683	3.476	3.969	3.809	3.736	4.39
86)	T	p-Isopropyltol...	3.342	3.222	3.159	2.986	3.399	3.265	3.229	4.53
87)	T	1,3-Dichlorobe...	1.863	1.750	1.742	1.550	1.747	1.707	1.726	5.86
88)	T	1,4-Dichlorobe...	2.143	1.772	1.803	1.577	1.724	1.710	1.788	10.65
89)	T	n-Butylbenzene	3.328	2.869	2.807	2.622	3.073	2.936	2.939	8.22
90)	T	Hexachloroethane	0.680	0.647	0.621	0.569	0.664	0.645	0.638	6.11
91)	T	1,2-Dichlorobe...	1.803	1.590	1.631	1.494	1.619	1.588	1.621	6.25
92)	T	1,2-Dibromo-3-...	0.167	0.187	0.219	0.195	0.224	0.223	0.202	11.51
93)	T	1,2,4-Trichlor...	1.441	0.994	0.975	0.959	1.114	1.094	1.096	16.47
94)	T	Hexachlorobuta...	0.953	0.482	0.399	0.373	0.426	0.409	0.507	43.70
95)	T	Naphthalene	2.942	2.473	2.880	2.776	3.171	3.181	2.904	9.14
96)	T	1,2,3-Trichlor...	1.154	0.947	0.942	0.909	1.050	1.033	1.006	9.04

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048229.D
Acq On : 20 Oct 2025 10:59
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 12:42:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 12:35:14 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.544	168	117157	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.745	114	193186	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.037	117	177252	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	86943	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 78 - 117		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 92 - 112		Recovery =	0.000%#			
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l		
Spiked Amount 50.000	Range 83 - 123		Recovery =	0.000%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.173	85	1223	0.995	ug/l		82
3) Chloromethane	1.301	50	1186	0.796	ug/l	#	62
4) Vinyl Chloride	1.380	62	1048	0.668	ug/l		92
6) Chloroethane	1.697	64	545	0.546	ug/l		91
7) Trichlorofluoromethane	1.898	101	1819	0.738	ug/l		98
8) Diethyl Ether	2.142	74	542	0.645	ug/l		81
9) 1,1,2-Trichlorotrifluo...	2.337	101	1199	0.864	ug/l		89
12) 1,1-Dichloroethene	2.325	96	1207	0.889	ug/l		88
14) Allyl chloride	2.666	41	2101	0.860	ug/l		96
15) Acrylonitrile	3.069	53	2984	5.171	ug/l		97
16) Acetone	2.380	43	3519	5.684	ug/l		98
17) Carbon Disulfide	2.520	76	4767	1.141	ug/l	#	92
18) Methyl Acetate	2.703	43	1204	0.955	ug/l	#	85
19) Methyl tert-butyl Ether	3.111	73	4437	1.085	ug/l		100
20) Methylene Chloride	2.794	84	1301	0.863	ug/l	#	76
21) trans-1,2-Dichloroethene	3.099	96	1376	0.980	ug/l		96
22) Diisopropyl ether	3.745	45	3977	0.832	ug/l	#	26
23) Vinyl Acetate	3.727	43	14769	4.131	ug/l		95
24) 1,1-Dichloroethane	3.611	63	2615	0.964	ug/l		97
25) 2-Butanone	4.574	43	3638	5.043	ug/l		98
26) 2,2-Dichloropropane	4.465	77	2347	1.012	ug/l		84
27) cis-1,2-Dichloroethene	4.489	96	1598	0.959	ug/l		94
28) Bromochloromethane	4.879	49	908	0.726	ug/l	#	69
29) Tetrahydrofuran	5.007	42	2088	4.929	ug/l	#	73
30) Chloroform	5.093	83	2688	0.941	ug/l		97
32) 1,1,1-Trichloroethane	5.379	97	2459	1.048	ug/l	#	50
36) 1,1-Dichloropropene	5.696	75	2173	1.151	ug/l	#	62
37) Ethyl Acetate	4.727	43	1772m	1.174	ug/l		
38) Carbon Tetrachloride	5.672	117	2513m	1.159	ug/l		
39) Methylcyclohexane	7.373	83	2128	0.999	ug/l		94
40) Benzene	6.032	78	5767	1.028	ug/l	#	89
41) Methacrylonitrile	4.916	41	741m	0.917	ug/l		
42) 1,2-Dichloroethane	6.080	62	2044	1.017	ug/l		87
43) Isopropyl Acetate	6.336	43	2548	1.006	ug/l	#	85
44) Trichloroethene	7.117	130	1547	1.094	ug/l		83
45) 1,2-Dichloropropane	7.422	63	1195	0.842	ug/l		96

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048229.D
Acq On : 20 Oct 2025 10:59
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 12:42:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 12:35:14 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Dibromomethane	7.574	93	1032	1.011	ug/l		95
47) Bromodichloromethane	7.812	83	2204	0.999	ug/l	#	79
48) Methyl methacrylate	7.684	41	1283	0.989	ug/l		95
49) 1,4-Dioxane	7.665	88	255	21.840	ug/l	#	34
51) 4-Methyl-2-Pentanone	8.562	43	7066	5.011	ug/l		91
52) Toluene	8.708	92	3403	1.010	ug/l		95
53) t-1,3-Dichloropropene	8.970	75	1844	0.892	ug/l	#	74
54) cis-1,3-Dichloropropene	8.360	75	2250	0.998	ug/l		90
55) 1,1,2-Trichloroethane	9.147	97	1229	0.977	ug/l	#	85
56) Ethyl methacrylate	9.104	69	1616	0.945	ug/l		96
57) 1,3-Dichloropropane	9.299	76	2174	0.989	ug/l		93
58) 2-Chloroethyl Vinyl ether	8.232	63	2970	3.381	ug/l		100
59) 2-Hexanone	9.421	43	4456	4.518	ug/l		92
60) Dibromochloromethane	9.507	129	1862	1.183	ug/l		95
61) 1,2-Dibromoethane	9.598	107	1338	1.037	ug/l		98
64) Tetrachloroethene	9.257	164	1482	1.192	ug/l		92
65) Chlorobenzene	10.067	112	4073	1.051	ug/l		90
66) 1,1,1,2-Tetrachloroethane	10.147	131	1495	1.070	ug/l	#	66
67) Ethyl Benzene	10.177	91	6752	1.016	ug/l		97
68) m/p-Xylenes	10.287	106	4589	1.854	ug/l		90
69) o-Xylene	10.628	106	2313	0.993	ug/l		99
70) Styrene	10.640	104	3737	0.932	ug/l		96
71) Bromoform	10.787	173	1198	1.168	ug/l	#	99
73) Isopropylbenzene	10.945	105	6291	1.040	ug/l		93
74) N-amyl acetate	10.829	43	2137	0.947	ug/l	#	90
75) 1,1,2,2-Tetrachloroethane	11.195	83	1718	1.003	ug/l		90
76) 1,2,3-Trichloropropane	11.220	75	1615m	1.216	ug/l		
77) Bromobenzene	11.183	156	1635	1.080	ug/l		91
78) n-propylbenzene	11.287	91	6956	0.949	ug/l		94
79) 2-Chlorotoluene	11.348	91	4477	1.010	ug/l		97
80) 1,3,5-Trimethylbenzene	11.433	105	5196	1.047	ug/l		97
82) 4-Chlorotoluene	11.439	91	5385	1.034	ug/l		99
83) tert-Butylbenzene	11.695	119	5439	1.085	ug/l		91
84) 1,2,4-Trimethylbenzene	11.738	105	4854	0.982	ug/l		99
85) sec-Butylbenzene	11.872	105	6589	1.075	ug/l		99
86) p-Isopropyltoluene	11.994	119	5812	1.125	ug/l		91
87) 1,3-Dichlorobenzene	11.951	146	3239	1.145	ug/l		96
88) 1,4-Dichlorobenzene	12.024	146	3727m	1.270	ug/l		
89) n-Butylbenzene	12.317	91	5787	1.202	ug/l		98
90) Hexachloroethane	12.518	117	1182	1.084	ug/l		77
91) 1,2-Dichlorobenzene	12.317	146	3135	1.172	ug/l		96
92) 1,2-Dibromo-3-Chloropr...	12.933	75	290	0.926	ug/l		79
93) 1,2,4-Trichlorobenzene	13.573	180	2505	1.587	ug/l		90
94) Hexachlorobutadiene	13.707	225	1658	2.724	ug/l		97
95) Naphthalene	13.762	128	5116	1.230	ug/l		98
96) 1,2,3-Trichlorobenzene	13.945	180	2006	1.377	ug/l		100

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

ICAL Form

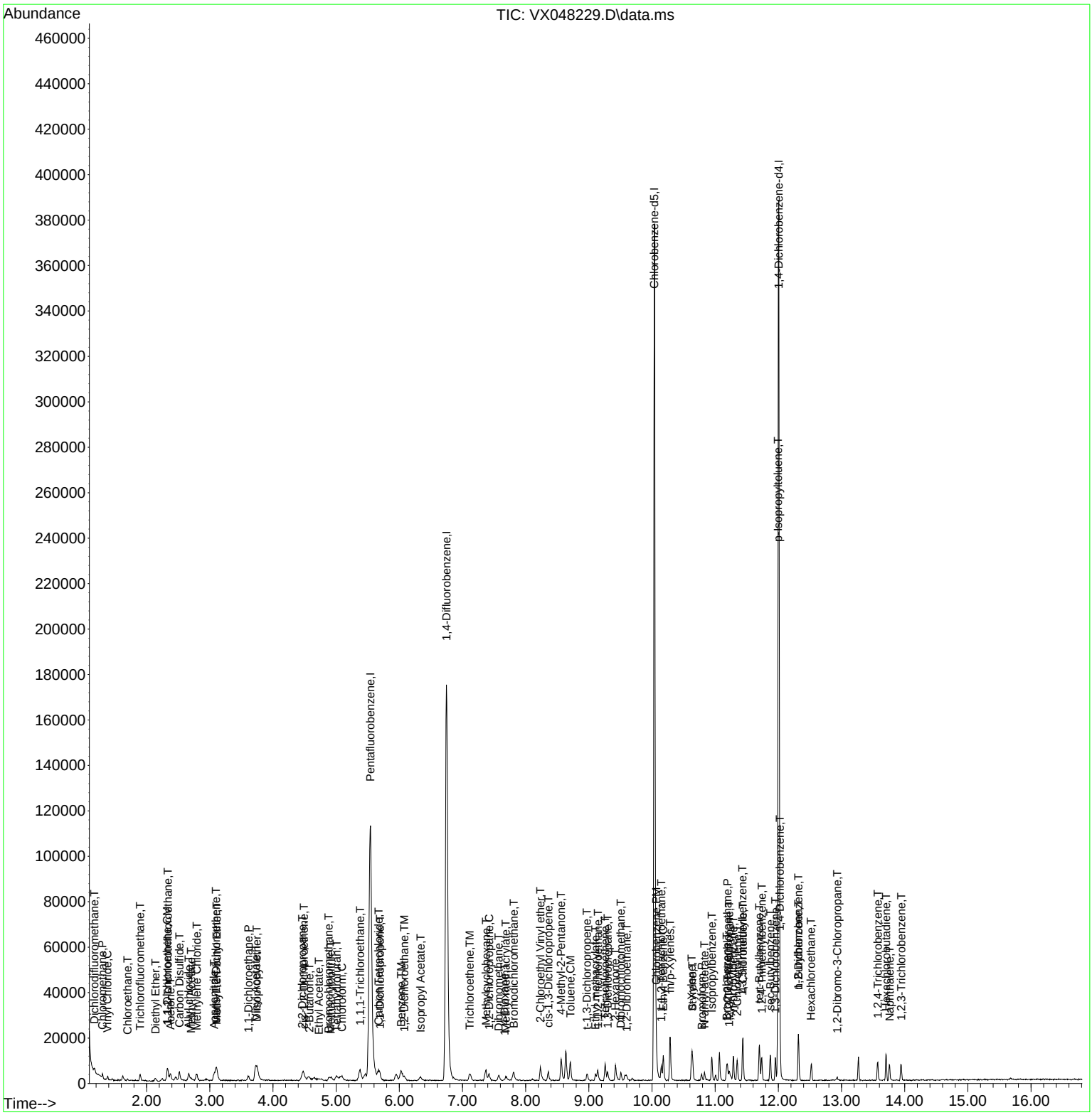
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048229.D
Acq On : 20 Oct 2025 10:59
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

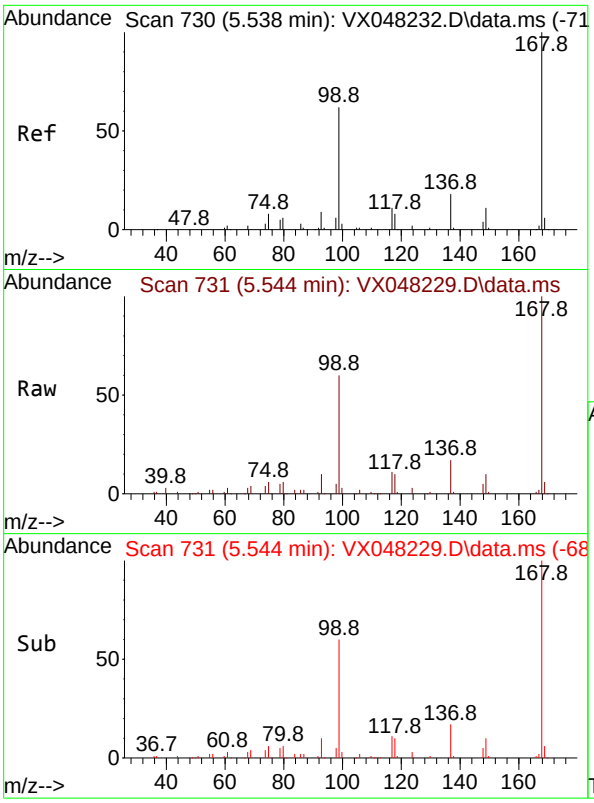
Quant Time: Oct 20 12:42:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 12:35:14 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

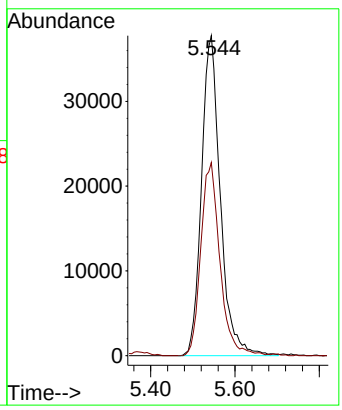




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:168 Resp: 11715

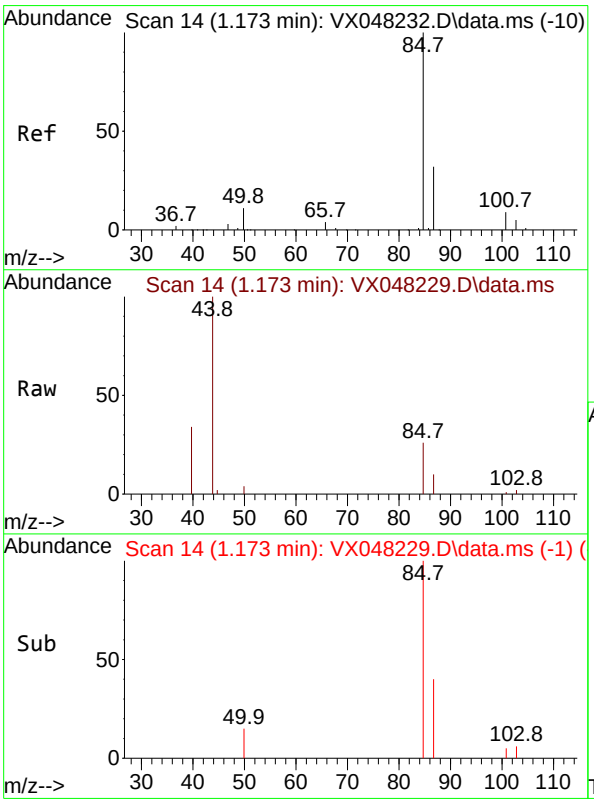
Ion	Ratio	Lower	Upper
168	100		
99	60.3	46.4	69.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

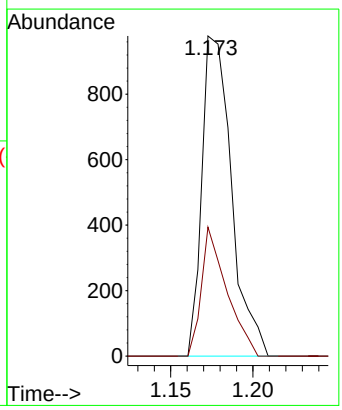
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

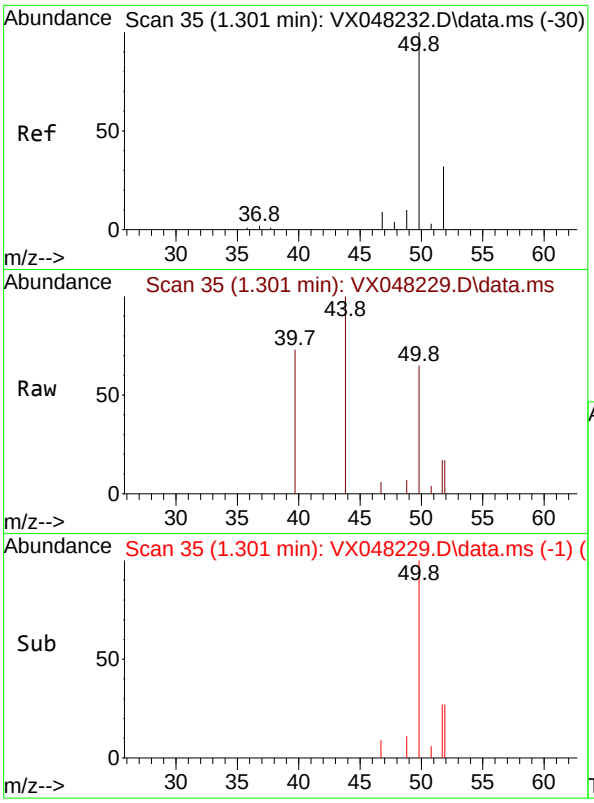


#2
Dichlorodifluoromethane
Concen: 0.995 ug/l
RT: 1.173 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 85 Resp: 1223

Ion	Ratio	Lower	Upper
85	100		
87	40.3	15.3	45.9

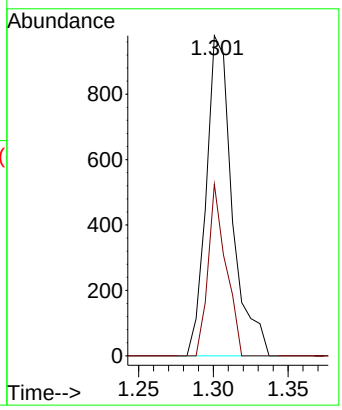




#3
Chloromethane
Concen: 0.796 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 50 Resp: 118

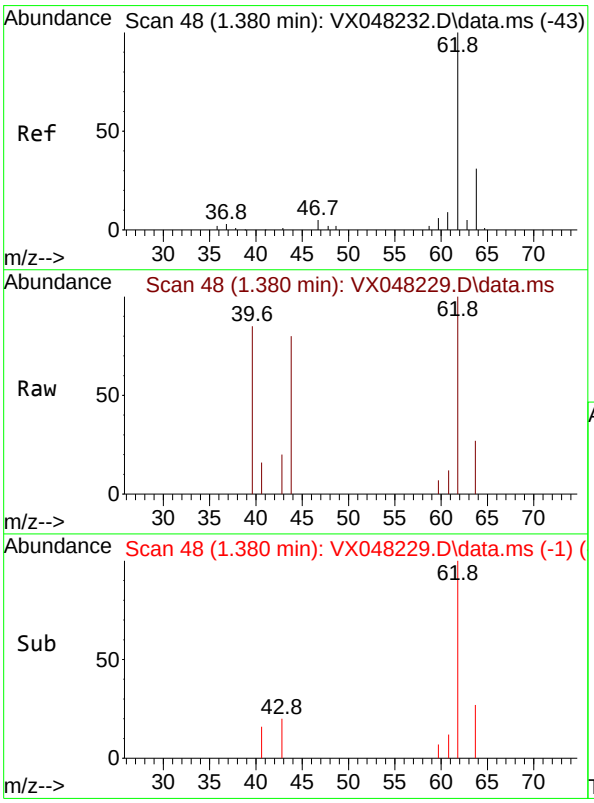
Ion	Ratio	Lower	Upper
50	100		
52	53.6	25.9	38.9#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

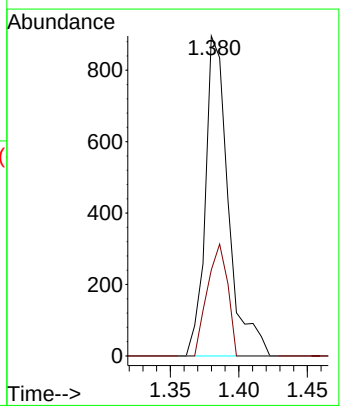
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

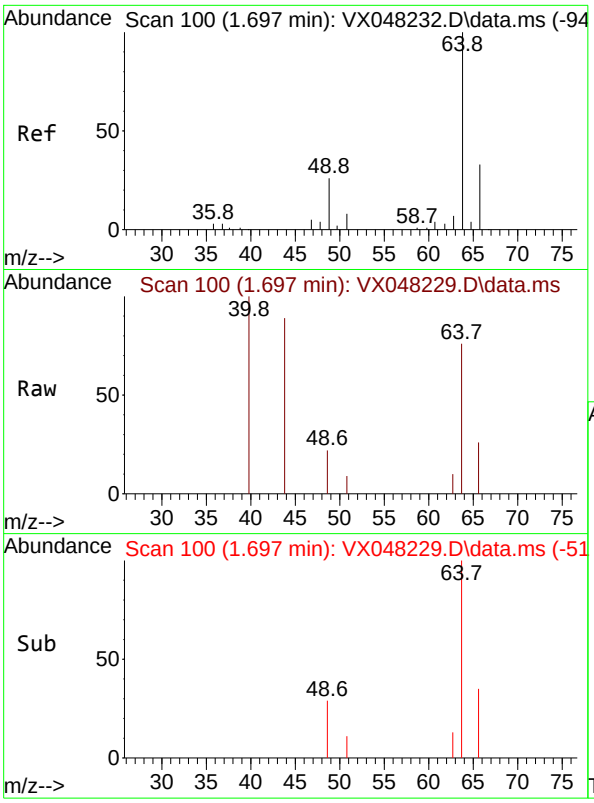


#4
Vinyl Chloride
Concen: 0.668 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 62 Resp: 1048

Ion	Ratio	Lower	Upper
62	100		
64	26.9	25.1	37.7





#6
Chloroethane
Concen: 0.546 ug/l
RT: 1.697 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

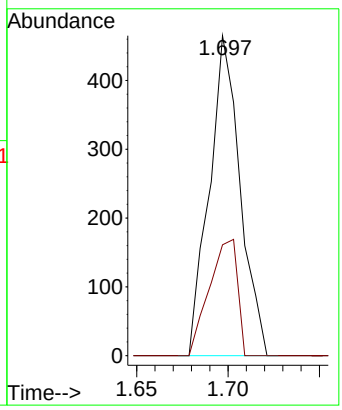
Tgt Ion: 64 Resp: 54

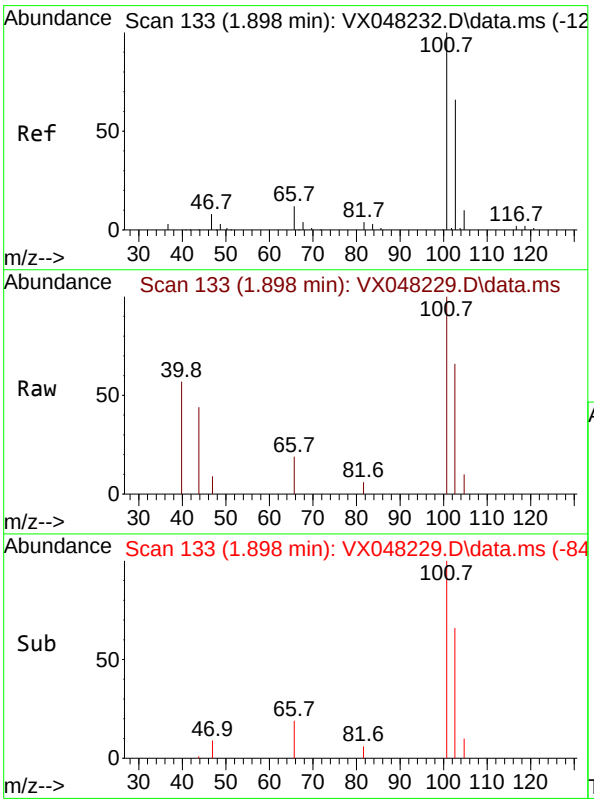
Ion	Ratio	Lower	Upper
64	100		
66	34.6	23.9	35.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

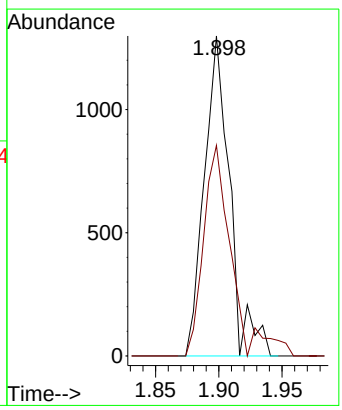


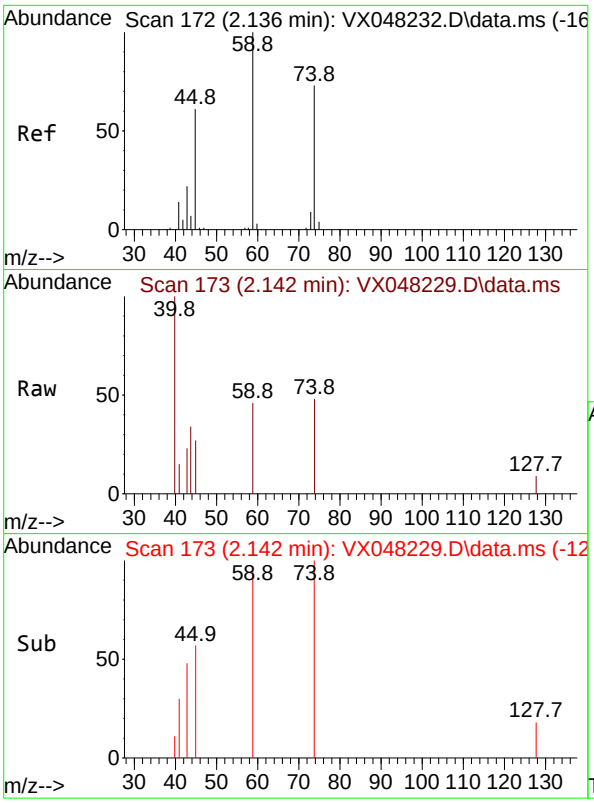


#7
Trichlorofluoromethane
Concen: 0.738 ug/l
RT: 1.898 min Scan# 133
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:101 Resp: 1819

Ion	Ratio	Lower	Upper
101	100		
103	65.8	51.6	77.4





#8
Diethyl Ether
Concen: 0.645 ug/l
RT: 2.142 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

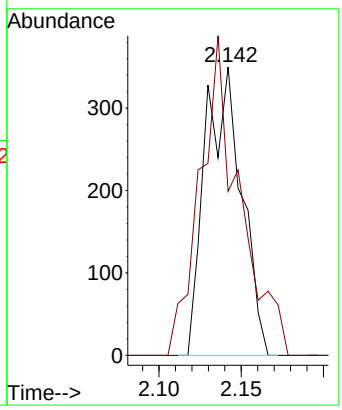
Tgt Ion: 74 Resp: 54

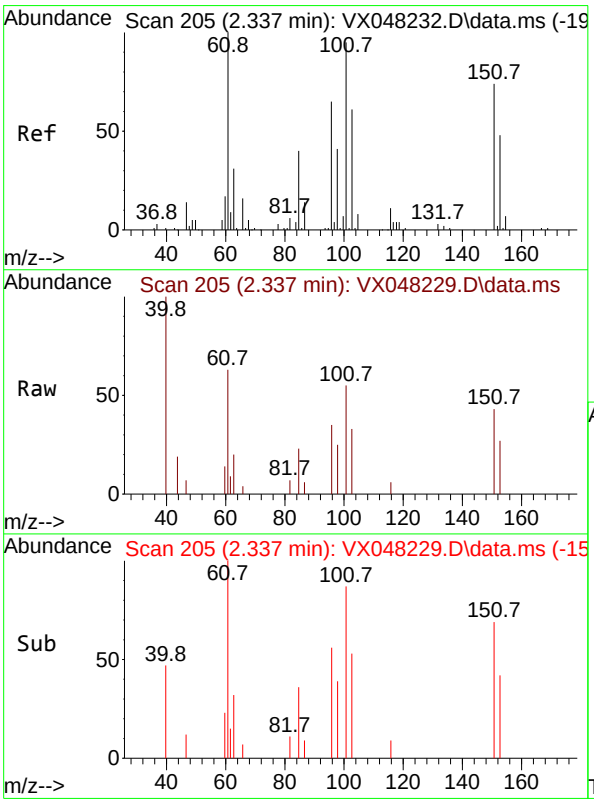
Ion	Ratio	Lower	Upper
74	100		
45	118.5	50.0	149.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

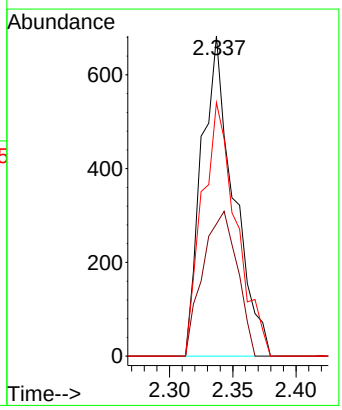


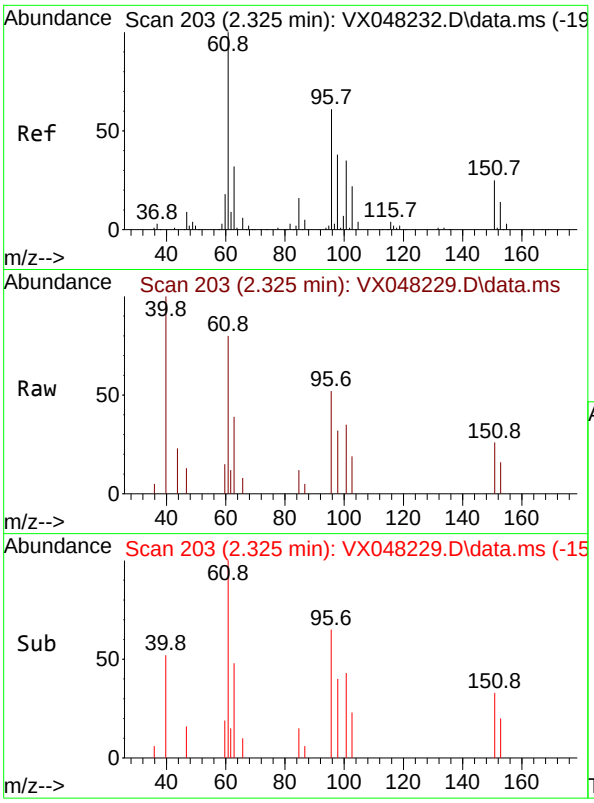


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.864 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:101 Resp: 1199

Ion	Ratio	Lower	Upper
101	100		
85	48.9	35.6	53.4
151	84.2	58.0	87.0

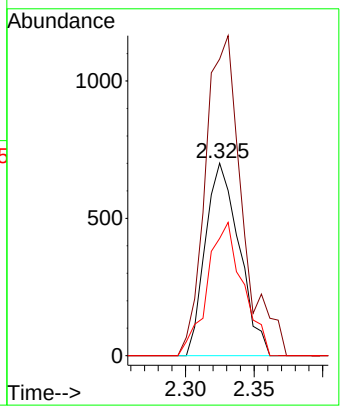




#12
1,1-Dichloroethene
Concen: 0.889 ug/l
RT: 2.325 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 96 Resp: 120

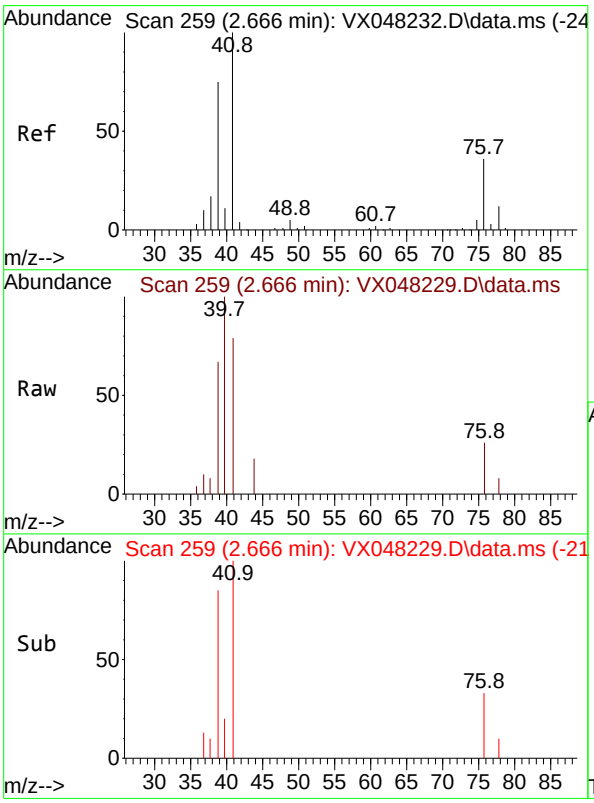
Ion	Ratio	Lower	Upper
96	100		
61	154.1	139.0	208.6
98	60.9	52.4	78.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

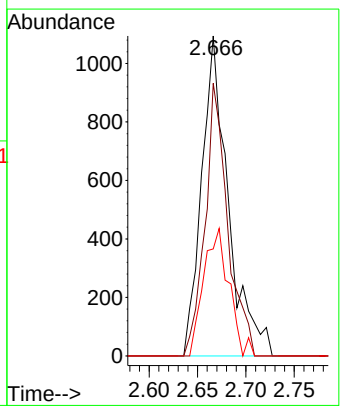
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

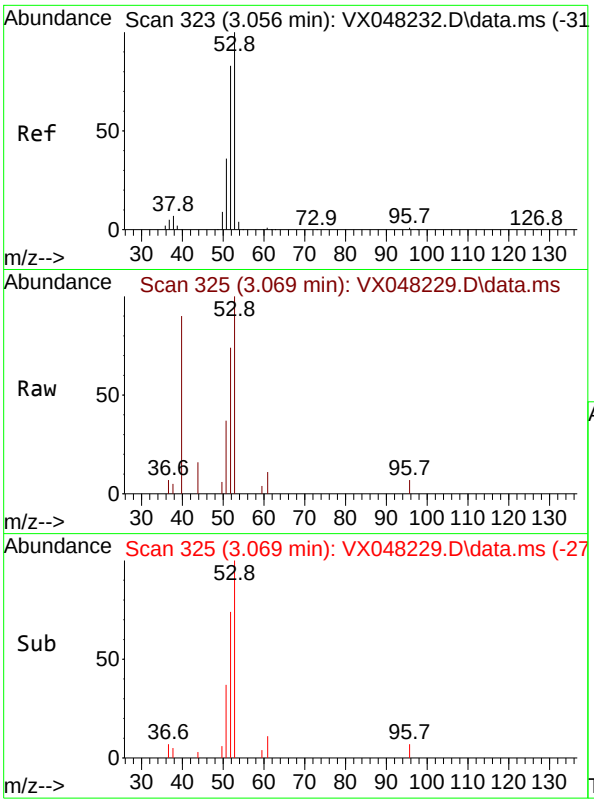


#14
Allyl chloride
Concen: 0.860 ug/l
RT: 2.666 min Scan# 259
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 41 Resp: 2101

Ion	Ratio	Lower	Upper
41	100		
39	72.1	56.0	84.0
76	37.8	27.5	41.3

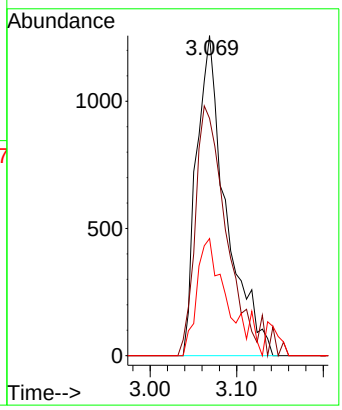




#15
Acrylonitrile
Concen: 5.171 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 53 Resp: 298

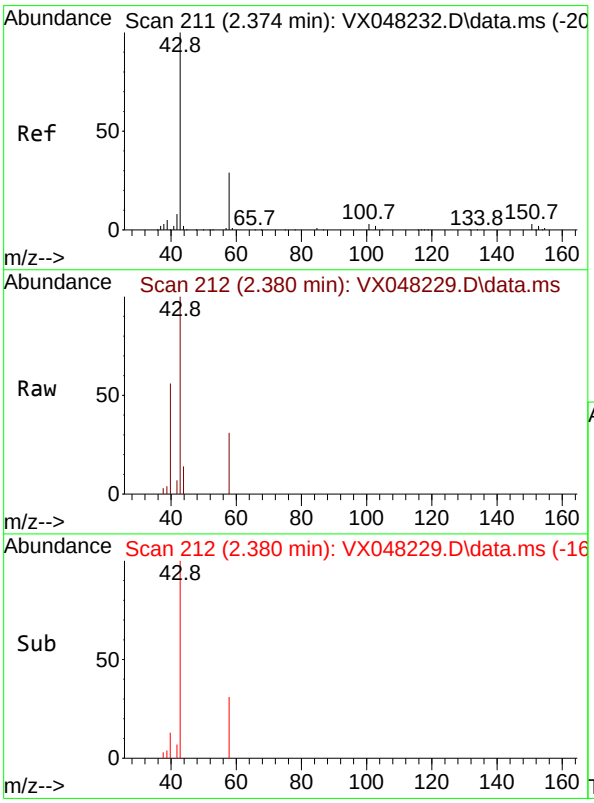
Ion	Ratio	Lower	Upper
53	100		
52	80.3	66.1	99.1
51	37.8	29.0	43.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

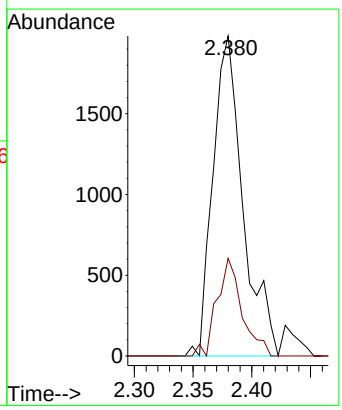
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

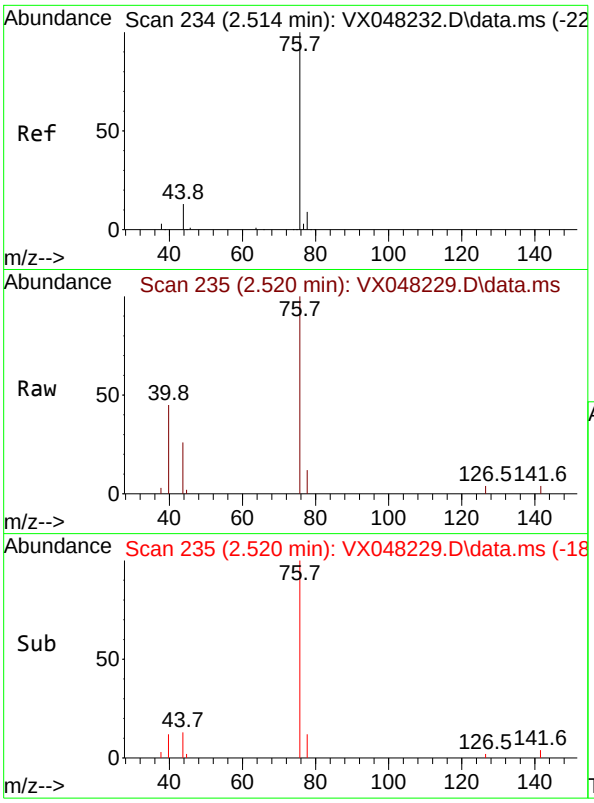


#16
Acetone
Concen: 5.684 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 43 Resp: 3519

Ion	Ratio	Lower	Upper
43	100		
58	30.5	23.4	35.2





#17
Carbon Disulfide
Concen: 1.141 ug/l
RT: 2.520 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

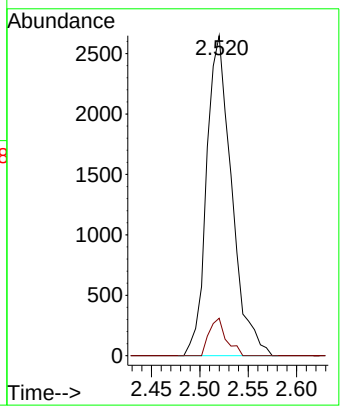
Tgt Ion: 76 Resp: 476

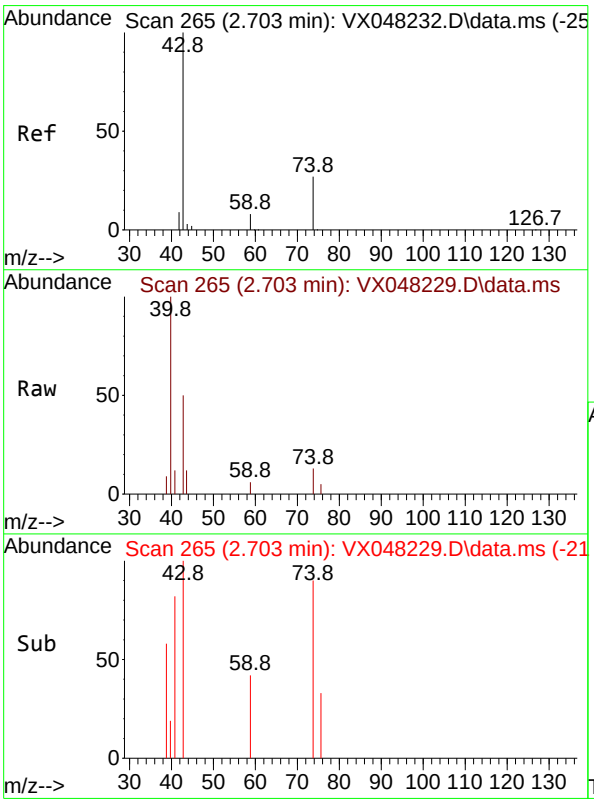
Ion	Ratio	Lower	Upper
76	100		
78	11.7	7.1	10.7#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

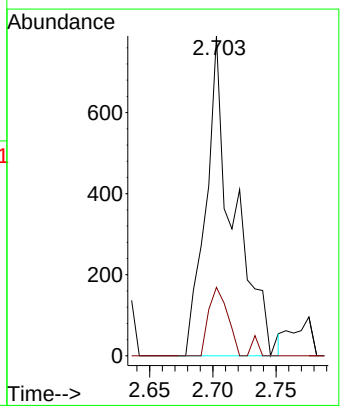


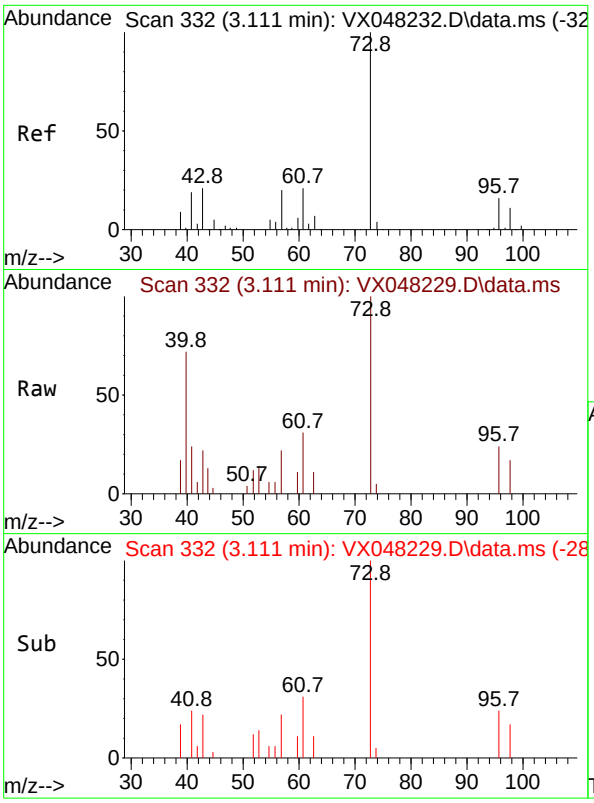


#18
Methyl Acetate
Concen: 0.955 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 43 Resp: 1204

Ion	Ratio	Lower	Upper
43	100		
74	14.6	17.5	26.3#

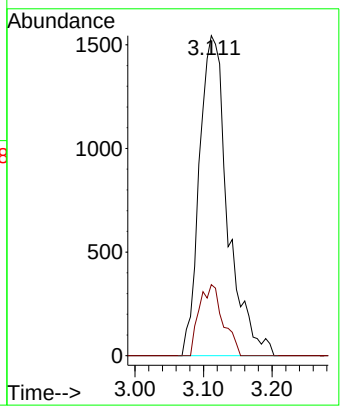




#19
Methyl tert-butyl Ether
Concen: 1.085 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 73 Resp: 443

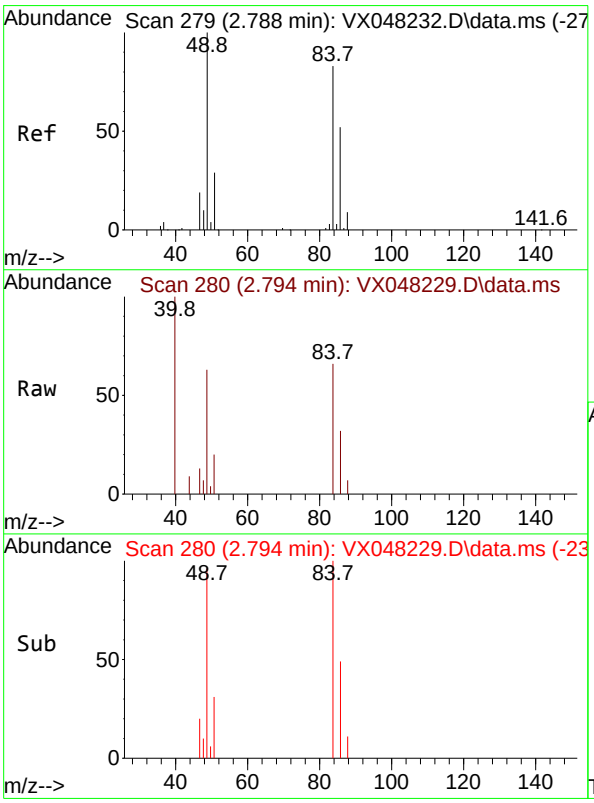
Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

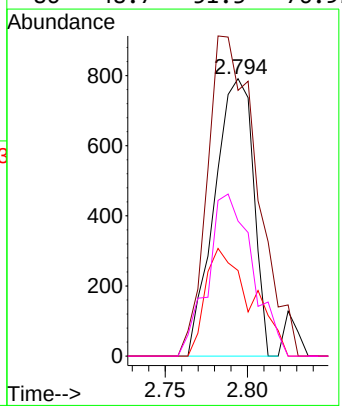
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

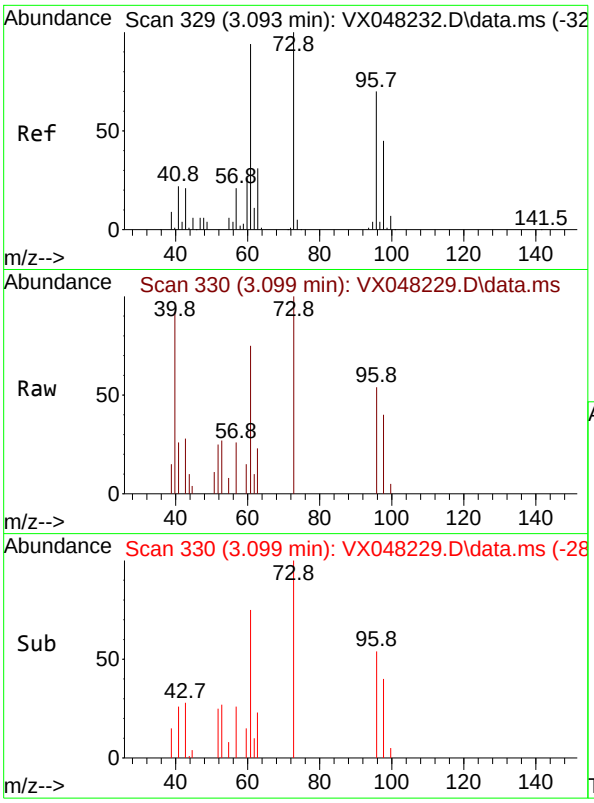


#20
Methylene Chloride
Concen: 0.863 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 84 Resp: 1301

Ion	Ratio	Lower	Upper
84	100		
49	95.8	104.1	156.1#
51	30.8	31.3	46.9#
86	48.7	51.3	76.9#





#21
trans-1,2-Dichloroethene
Concen: 0.980 ug/l
RT: 3.099 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

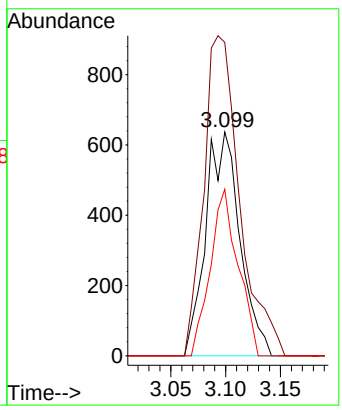
Tgt Ion: 96 Resp: 137

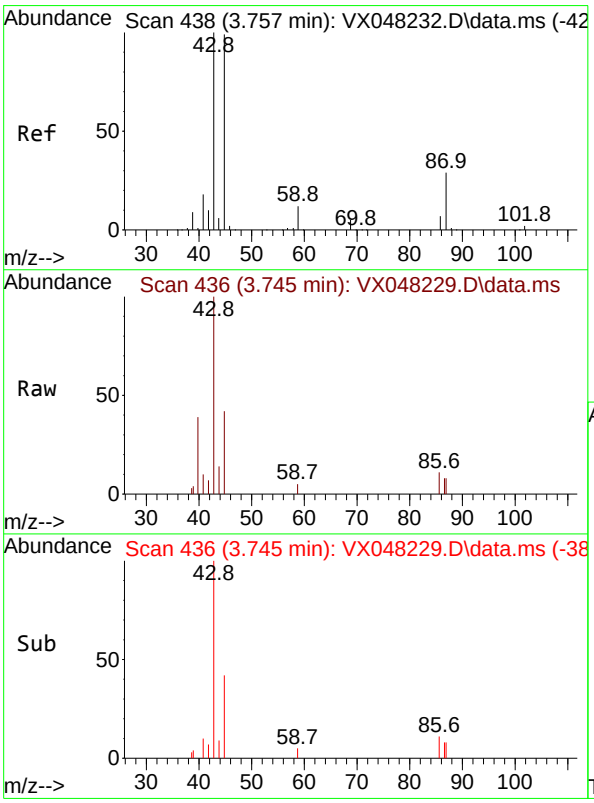
Ion	Ratio	Lower	Upper
96	100		
61	140.0	111.9	167.9
98	74.4	51.2	76.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

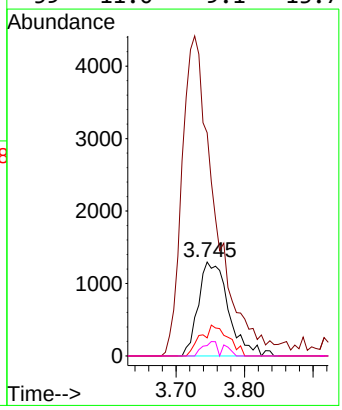


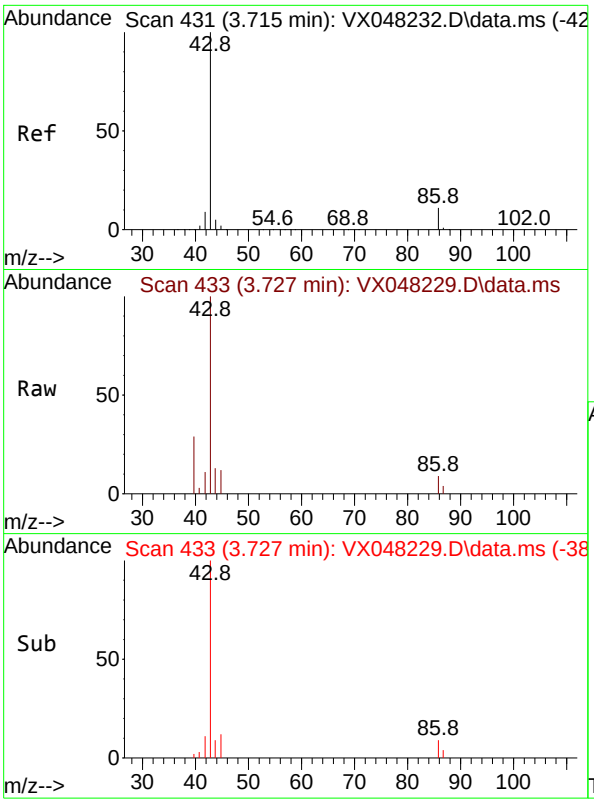


#22
Diisopropyl ether
Concen: 0.832 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 45 Resp: 3977

Ion	Ratio	Lower	Upper
45	100		
43	213.9	89.8	134.8#
87	19.2	20.6	31.0#
59	11.0	9.1	13.7





#23
Vinyl Acetate
Concen: 4.131 ug/l
RT: 3.727 min Scan# 4
Delta R.T. 0.012 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

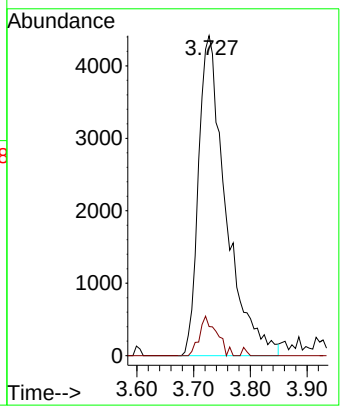
Tgt Ion: 43 Resp: 1476

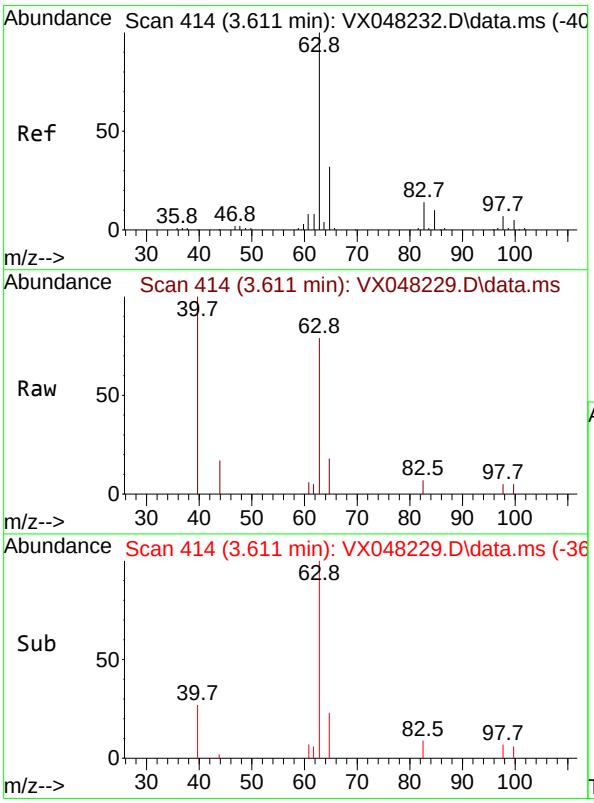
Ion	Ratio	Lower	Upper
43	100		
86	11.8	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

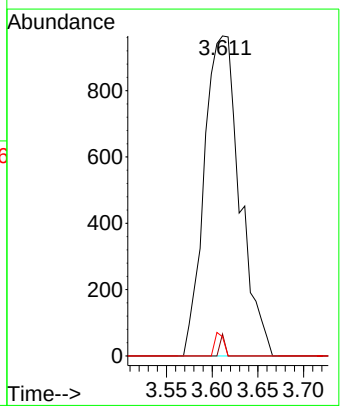


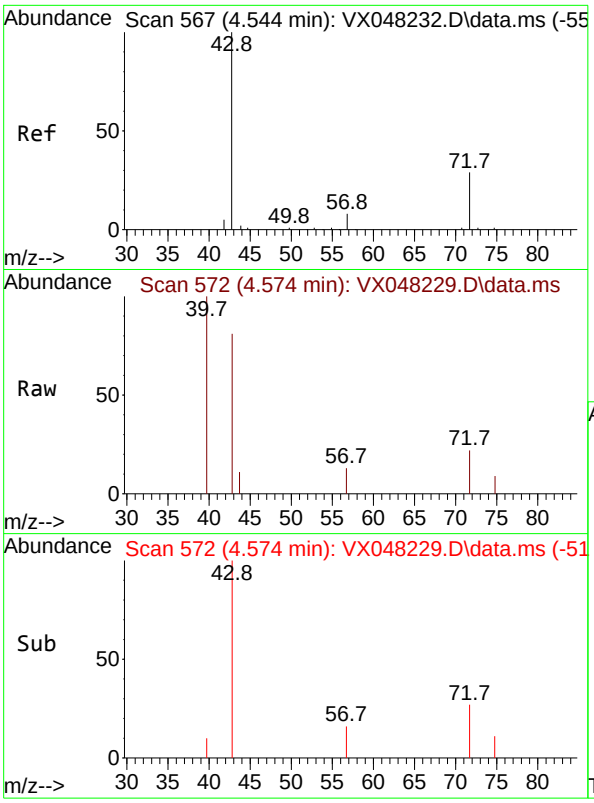


#24
1,1-Dichloroethane
Concen: 0.964 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 63 Resp: 2615

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.5	10.6
100	6.0	2.1	6.3

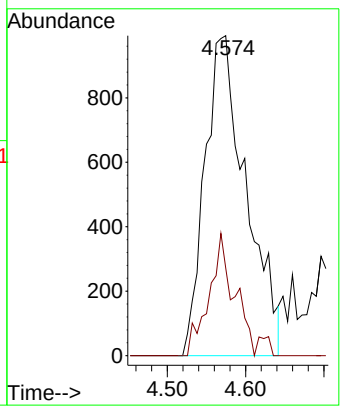




#25
2-Butanone
Concen: 5.043 ug/l
RT: 4.574 min Scan# 5
Delta R.T. 0.037 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 43 Resp: 363

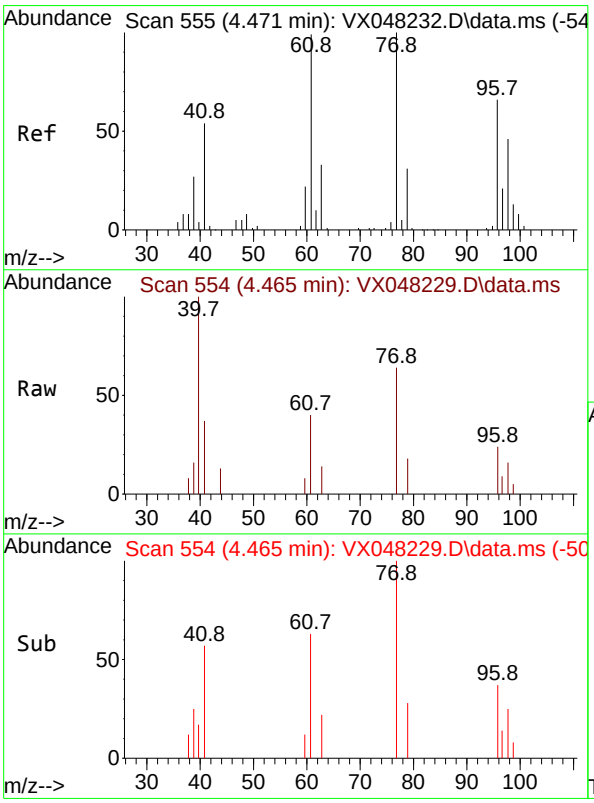
Ion	Ratio	Lower	Upper
43	100		
72	24.0	19.9	29.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

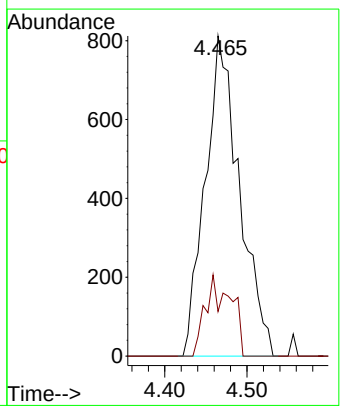
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

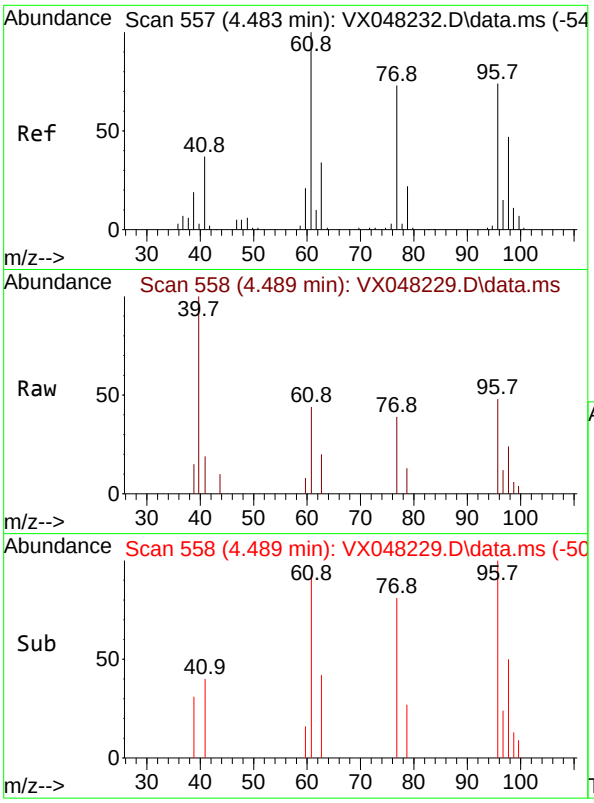


#26
2,2-Dichloropropane
Concen: 1.012 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 77 Resp: 2347

Ion	Ratio	Lower	Upper
77	100		
97	14.3	11.1	33.3

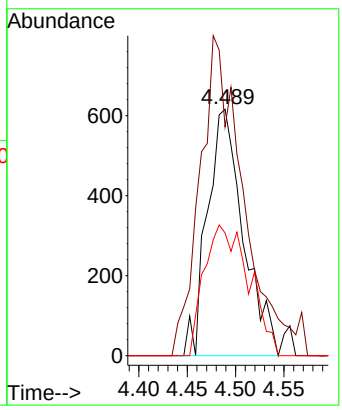




#27
cis-1,2-Dichloroethene
Concen: 0.959 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 96 Resp: 159

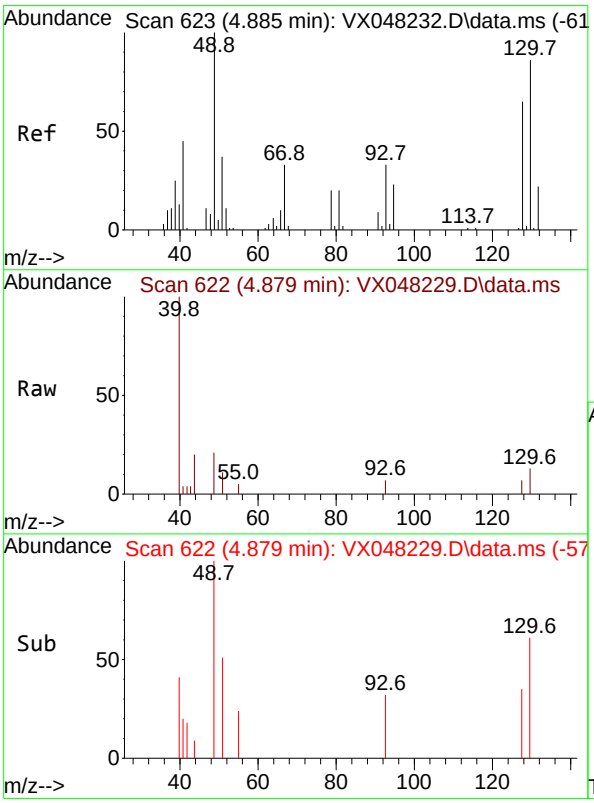
Ion	Ratio	Lower	Upper
96	100		
61	156.9	0.0	294.2
98	65.8	0.0	128.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

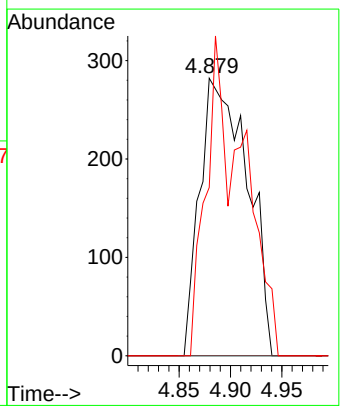
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

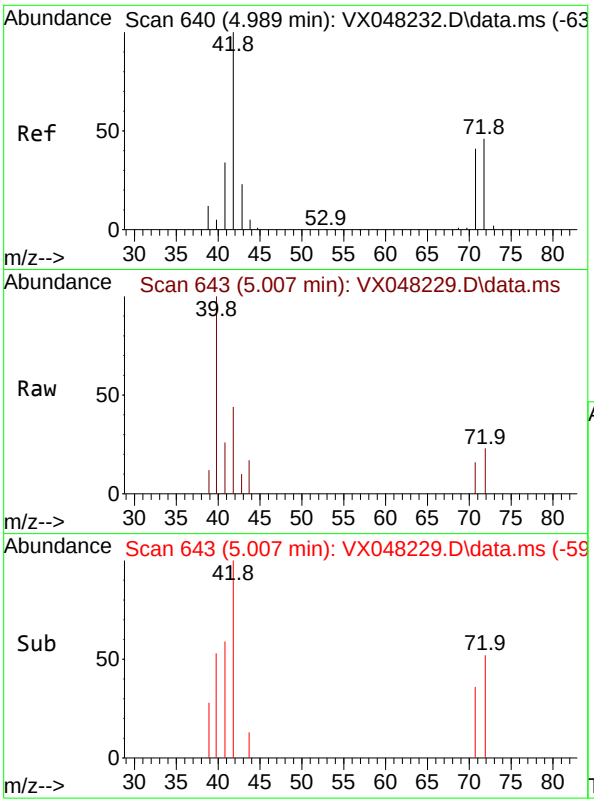


#28
Bromochloromethane
Concen: 0.726 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 49 Resp: 908

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.4
130	47.0	59.3	88.9#

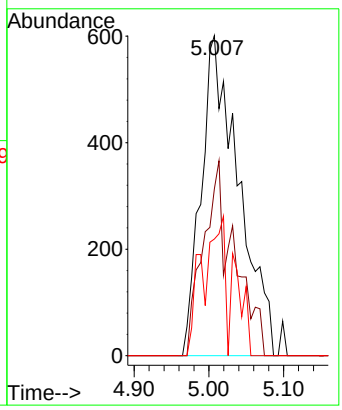




#29
Tetrahydrofuran
Concen: 4.929 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.018 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 42 Resp: 208

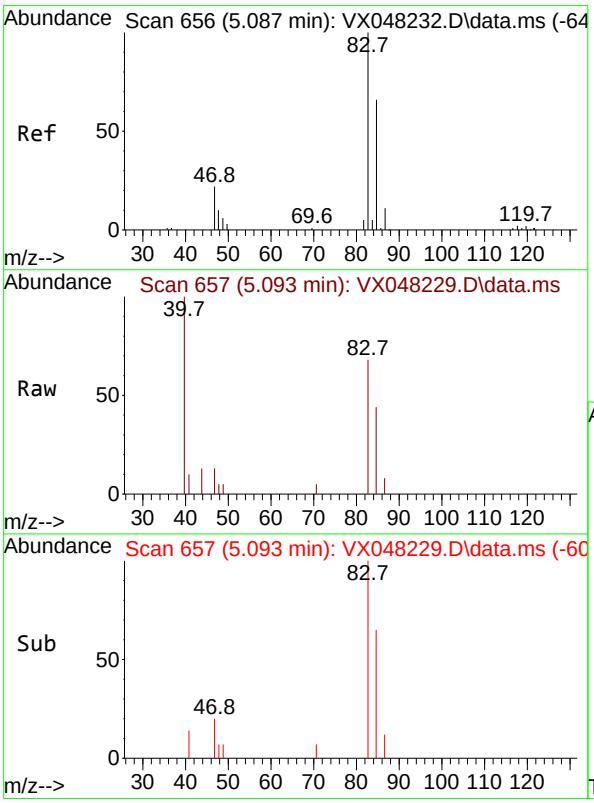
Ion	Ratio	Lower	Upper
42	100		
72	34.1	35.3	52.9#
71	16.2	32.2	48.4#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

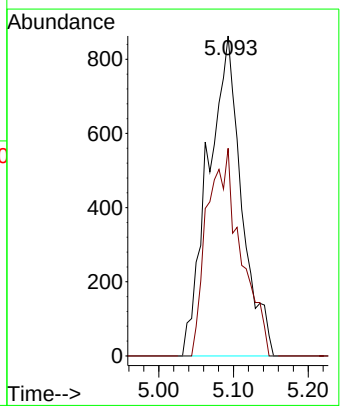
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

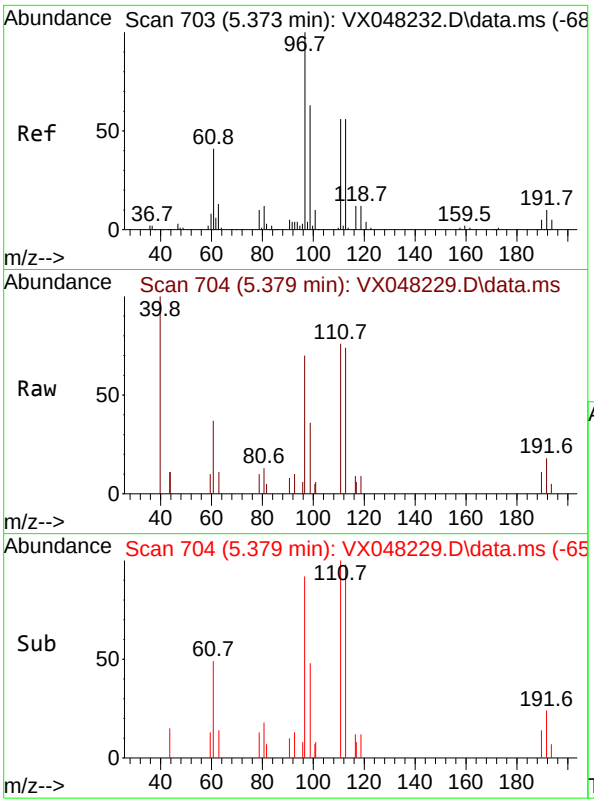


#30
Chloroform
Concen: 0.941 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.012 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 83 Resp: 2688

Ion	Ratio	Lower	Upper
83	100		
85	64.9	50.1	75.1





#32
1,1,1-Trichloroethane
Concen: 1.048 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

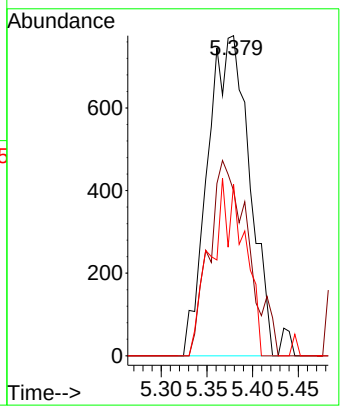
Tgt Ion: 97 Resp: 245

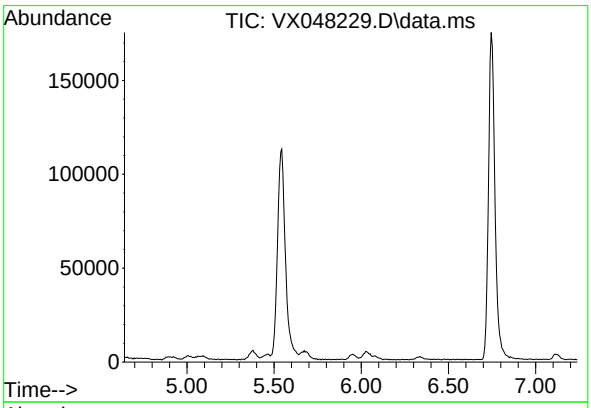
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.7	77.5#
61	44.9	34.8	52.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



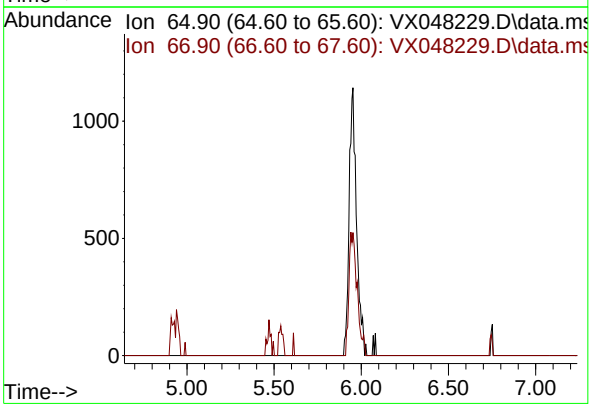


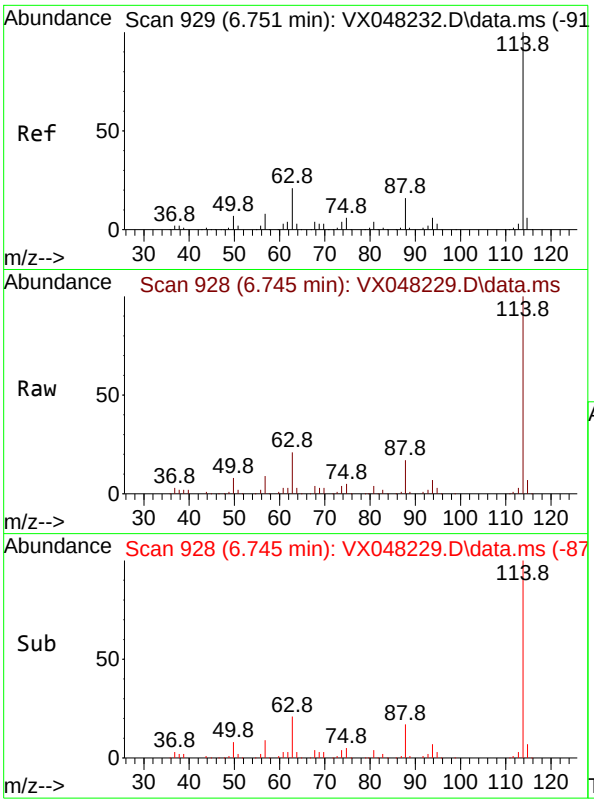
#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 5.94 min

Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 65

Sig	Exp Ratio
65	100
67	52.5





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

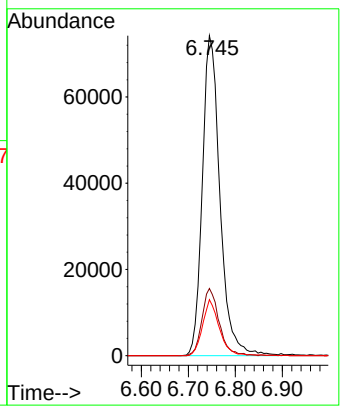
Tgt Ion:114 Resp: 19318

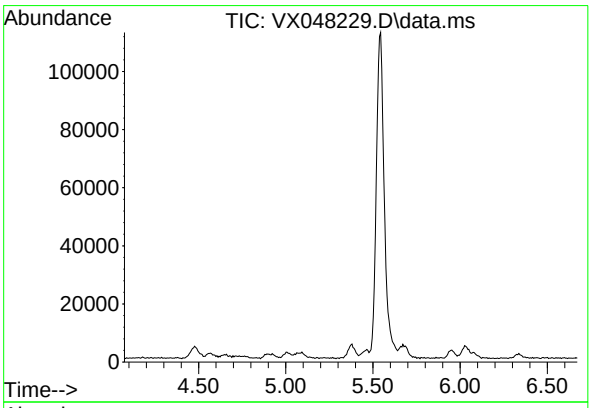
Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	43.2
88	17.5	0.0	33.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



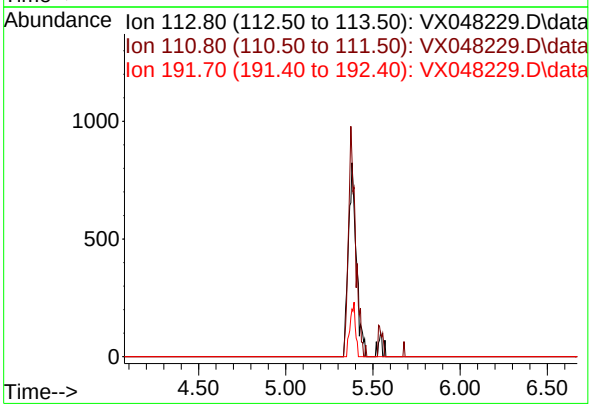


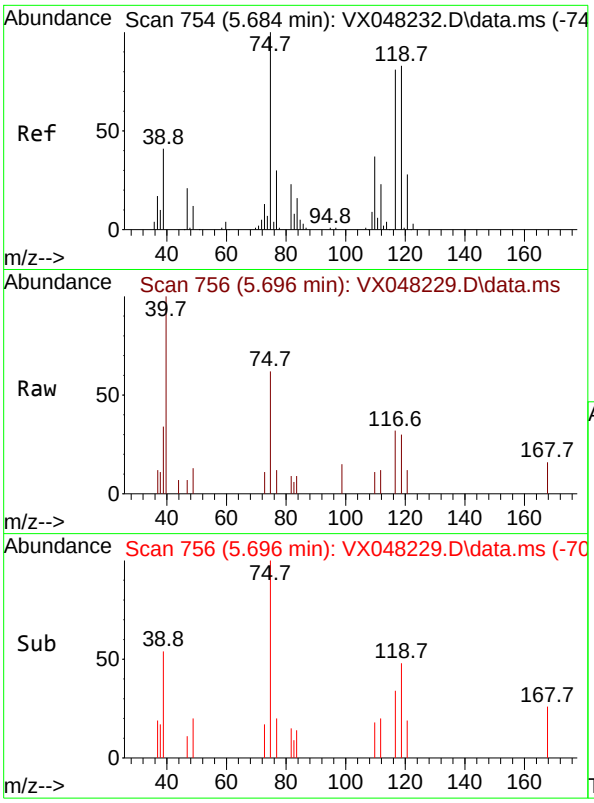
#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 5.37 min

Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 113

Sig	Exp Ratio
113	100
111	102.8
192	18.9

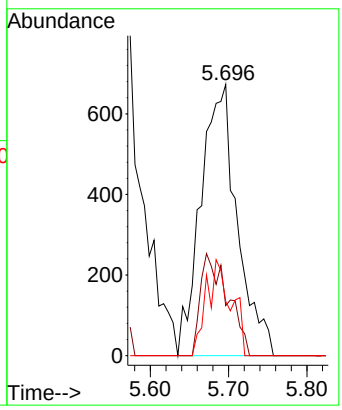




#36
1,1-Dichloropropene
Concen: 1.151 ug/l
RT: 5.696 min Scan# 7
Delta R.T. 0.012 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 75 Resp: 217

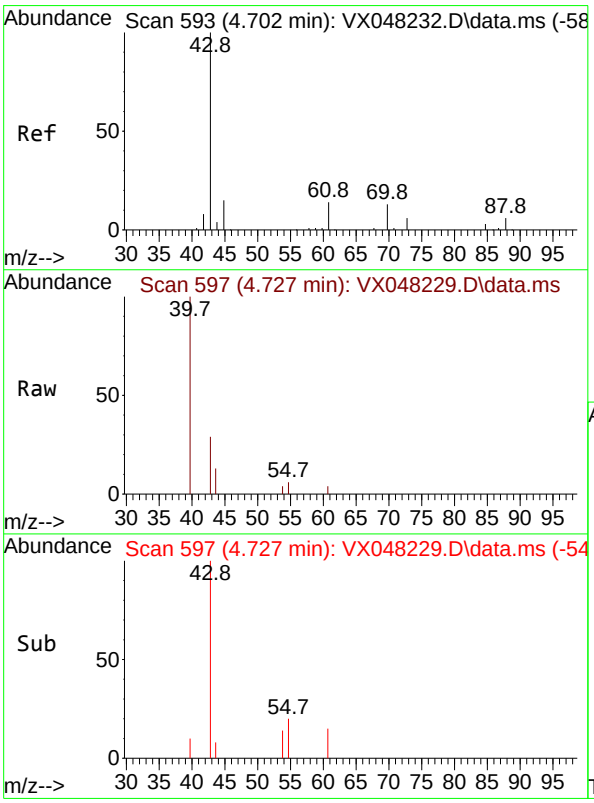
Ion	Ratio	Lower	Upper
75	100		
110	0.0	17.7	53.1#
77	23.9	24.3	36.5#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

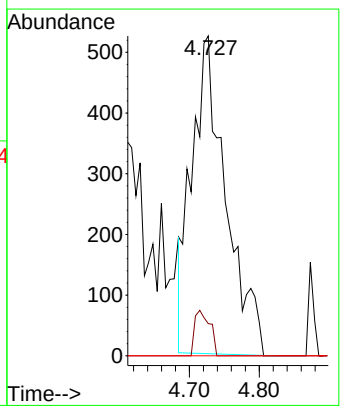
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

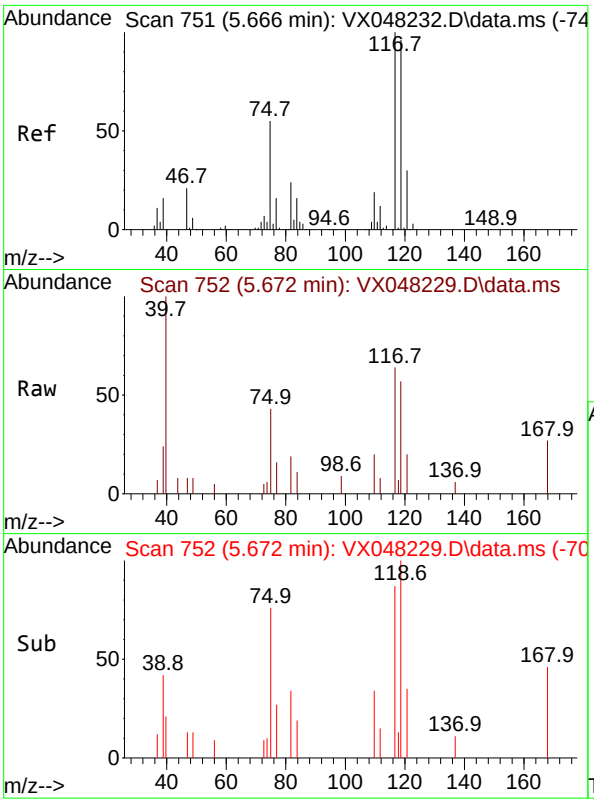


#37
Ethyl Acetate
Concen: 1.174 ug/l m
RT: 4.727 min Scan# 597
Delta R.T. 0.031 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 43 Resp: 1772

Ion	Ratio	Lower	Upper
43	100		
61	6.4	10.6	15.8#
70	0.0	7.8	11.6#

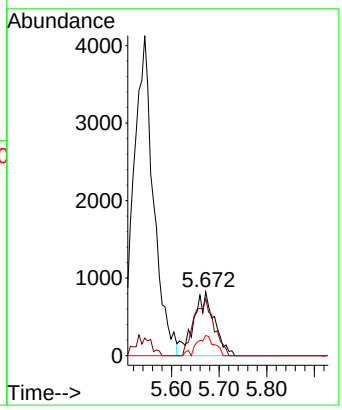




#38
Carbon Tetrachloride
Concen: 1.159 ug/l m
RT: 5.672 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:117 Resp: 251

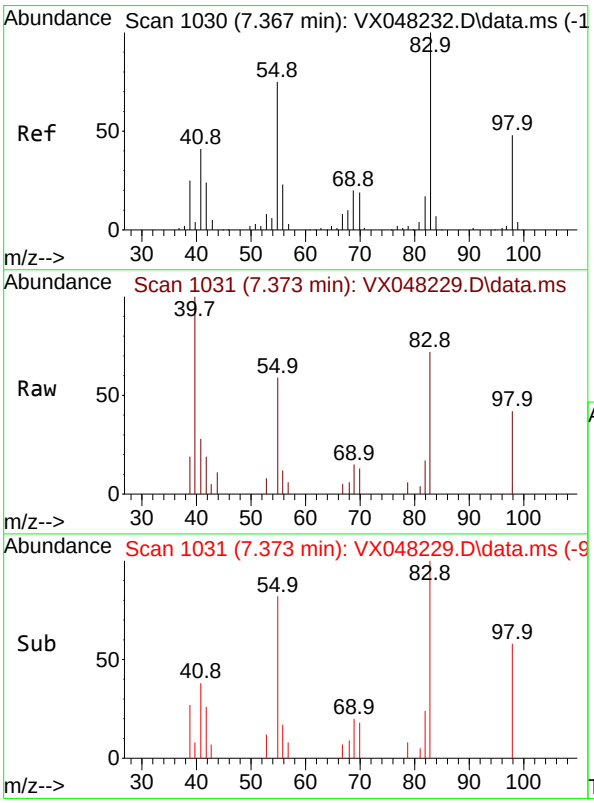
Ion	Ratio	Lower	Upper
117	100		
119	89.4	77.2	115.8
121	31.5	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

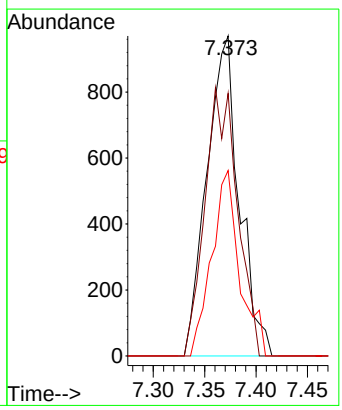
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

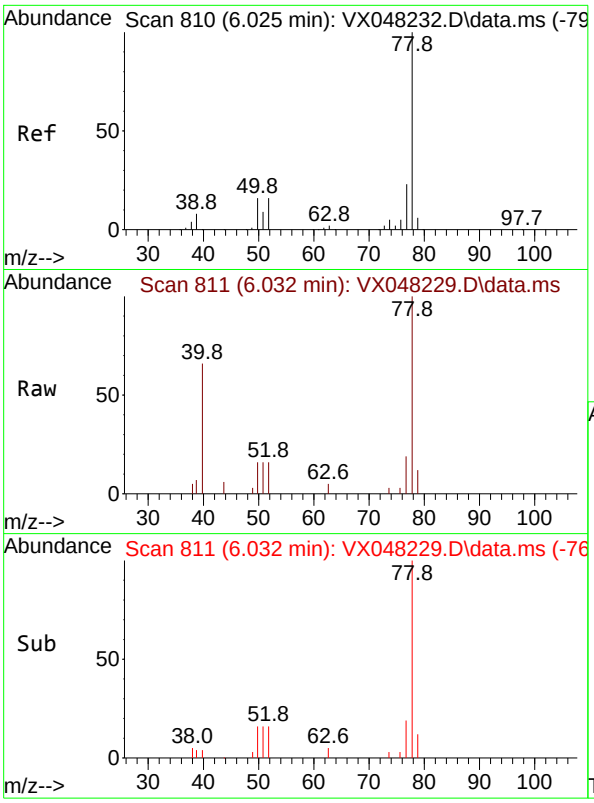


#39
Methylcyclohexane
Concen: 0.999 ug/l
RT: 7.373 min Scan# 1031
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 83 Resp: 2128

Ion	Ratio	Lower	Upper
83	100		
55	82.1	66.2	99.2
98	57.9	38.9	58.3





#40
Benzene
Concen: 1.028 ug/l
RT: 6.032 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

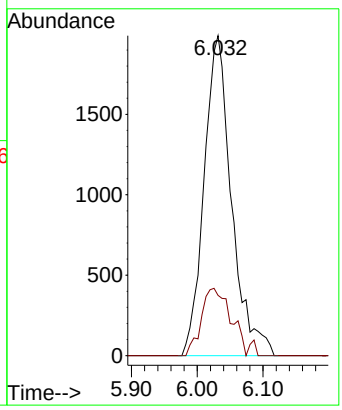
Tgt Ion: 78 Resp: 576

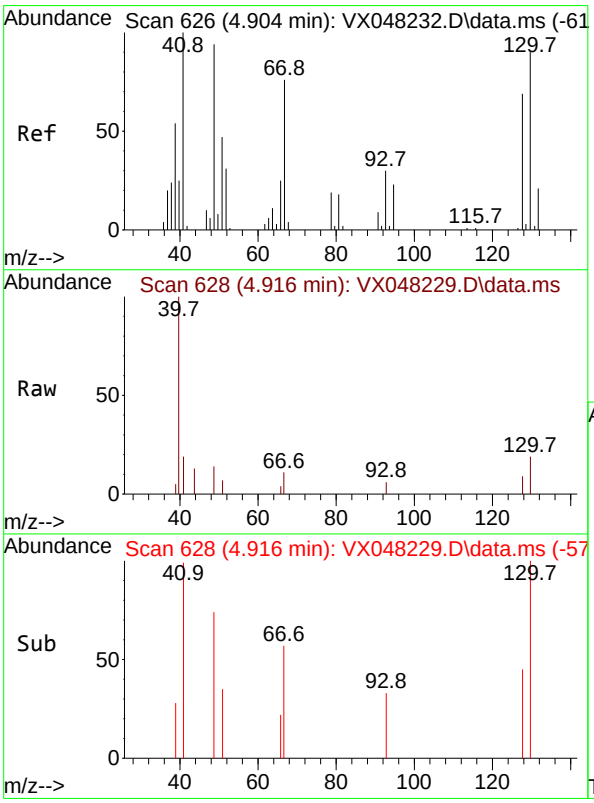
Ion	Ratio	Lower	Upper
78	100		
77	18.9	19.3	28.9#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

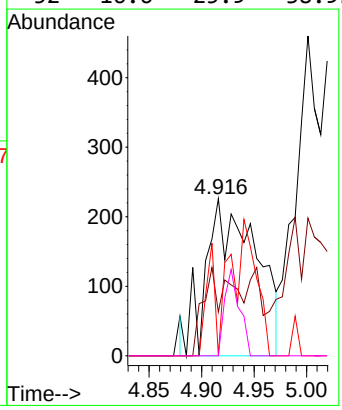


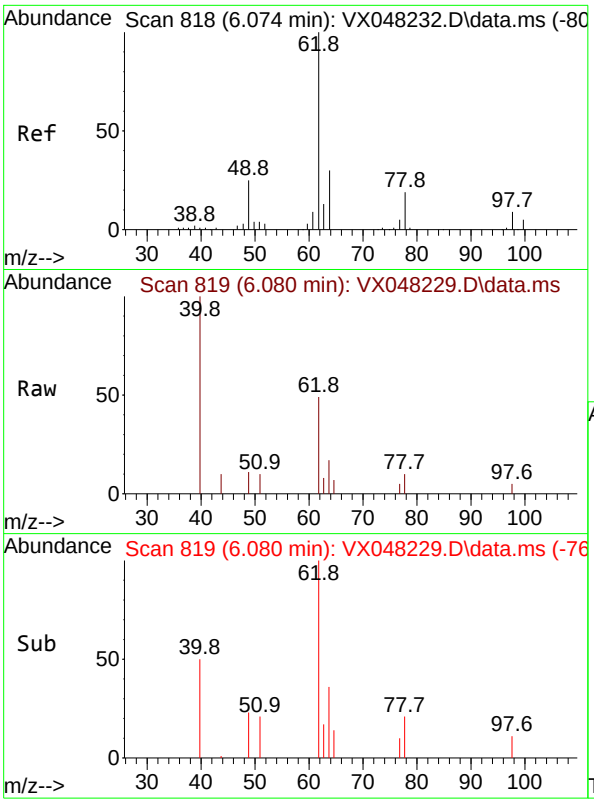


#41
Methacrylonitrile
Concen: 0.917 ug/l m
RT: 4.916 min Scan# 628
Delta R.T. 0.012 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 41 Resp: 741

Ion	Ratio	Lower	Upper
41	100		
39	17.0	44.0	66.0#
67	12.3	58.7	88.1#
52	16.6	25.9	38.9#





#42
1,2-Dichloroethane
Concen: 1.017 ug/l
RT: 6.080 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

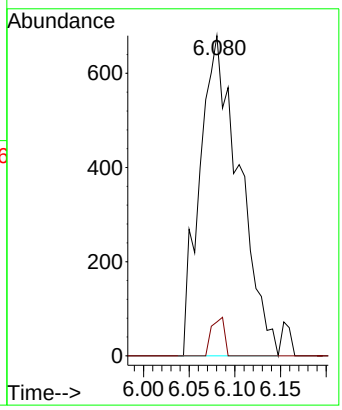
Tgt Ion: 62 Resp: 204

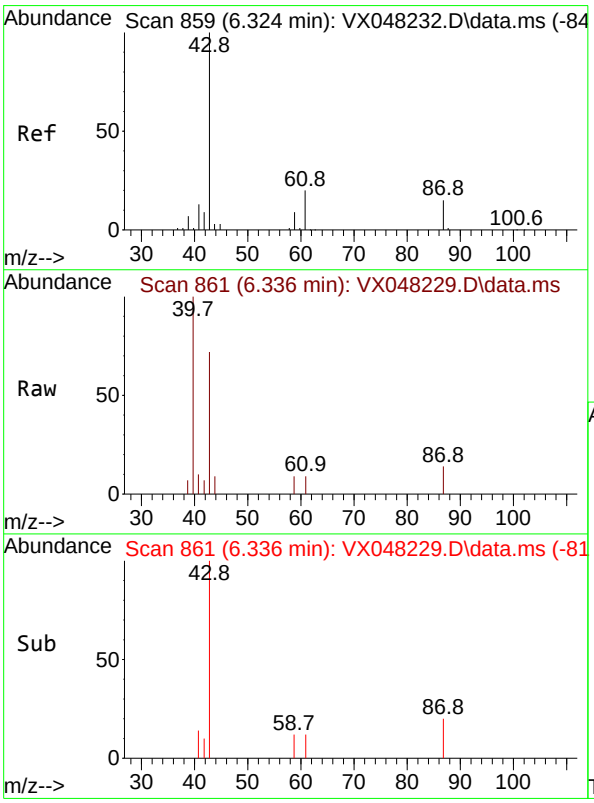
Ion	Ratio	Lower	Upper
62	100		
98	3.9	0.0	17.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

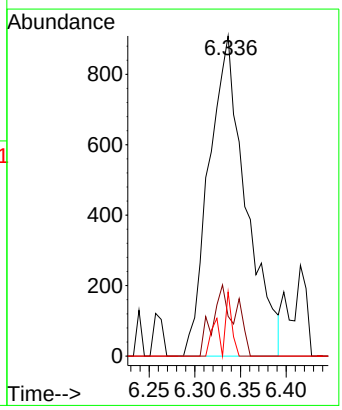


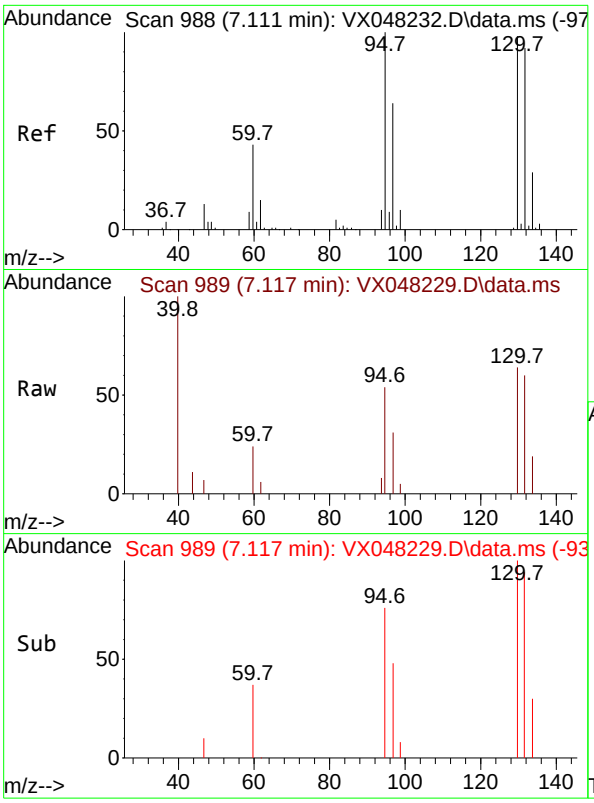


#43
Isopropyl Acetate
Concen: 1.006 ug/l
RT: 6.336 min Scan# 861
Delta R.T. 0.012 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 43 Resp: 2548

Ion	Ratio	Lower	Upper
43	100		
61	13.8	14.9	22.3#
87	3.4	9.4	14.2#

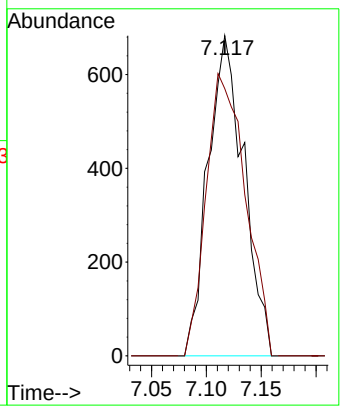




#44
Trichloroethene
Concen: 1.094 ug/l
RT: 7.117 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:130 Resp: 154

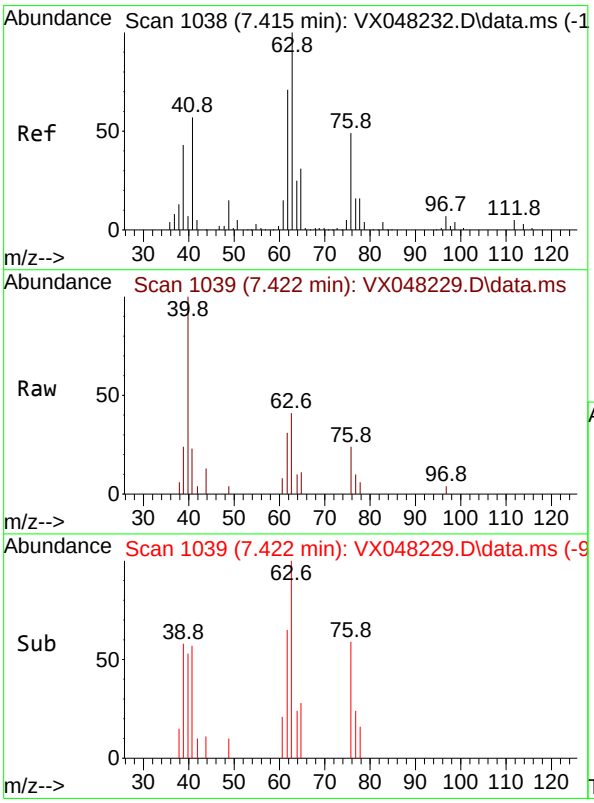
Ion	Ratio	Lower	Upper
130	100		
95	83.5	0.0	200.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

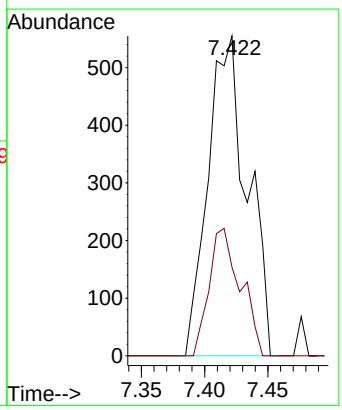
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

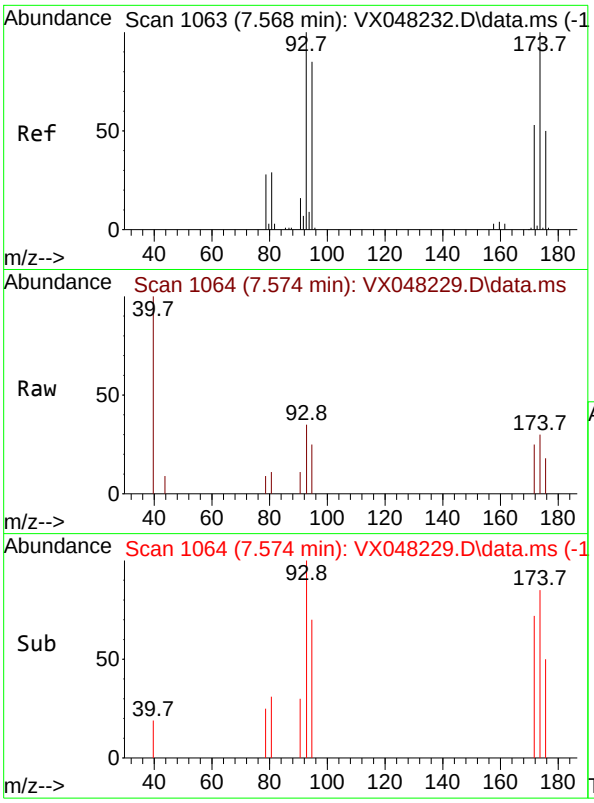


#45
1,2-Dichloropropane
Concen: 0.842 ug/l
RT: 7.422 min Scan# 1039
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 63 Resp: 1195

Ion	Ratio	Lower	Upper
63	100		
65	27.7	24.1	36.1

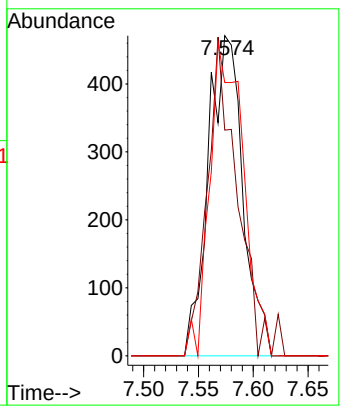




#46
Dibromomethane
Concen: 1.011 ug/l
RT: 7.574 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 93 Resp: 103

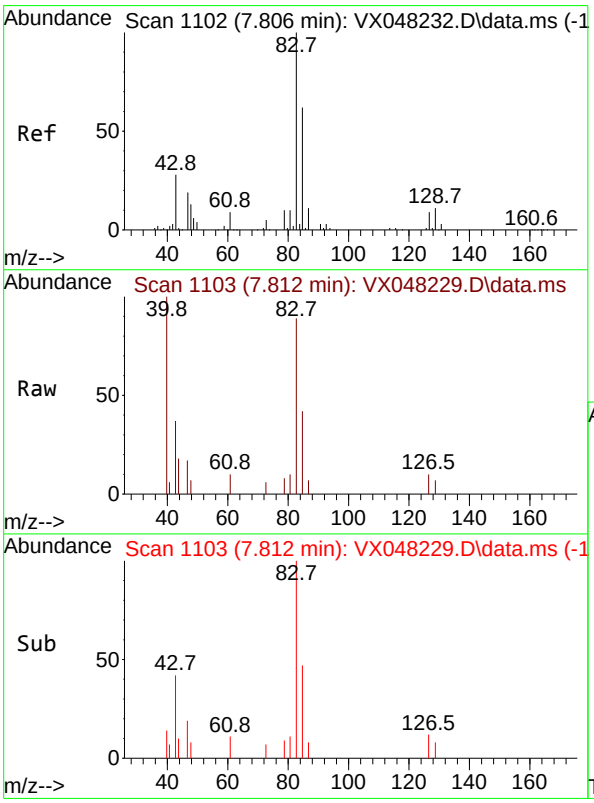
Ion	Ratio	Lower	Upper
93	100		
95	86.4	65.9	98.9
174	95.3	71.7	107.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

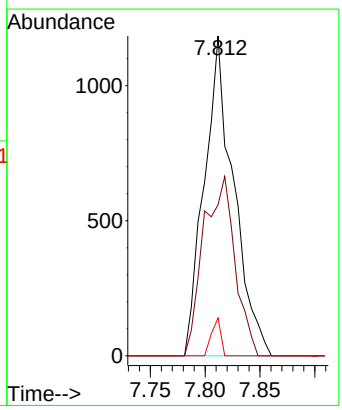
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

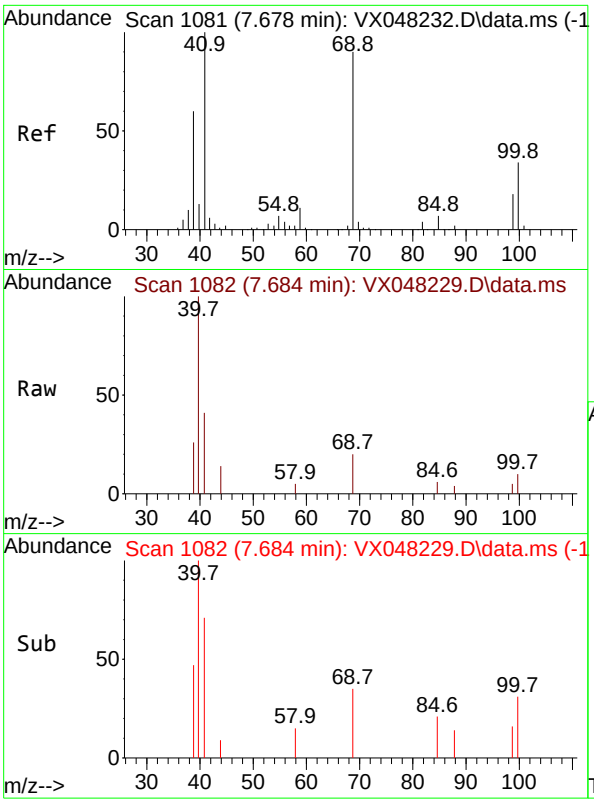


#47
Bromodichloromethane
Concen: 0.999 ug/l
RT: 7.812 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 83 Resp: 2204

Ion	Ratio	Lower	Upper
83	100		
85	47.2	52.2	78.4#
127	11.8	7.3	10.9#





#48
Methyl methacrylate
Concen: 0.989 ug/l
RT: 7.684 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

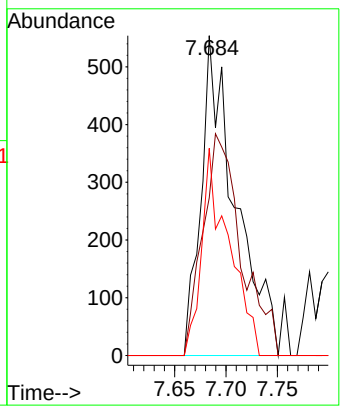
Tgt Ion: 41 Resp: 128

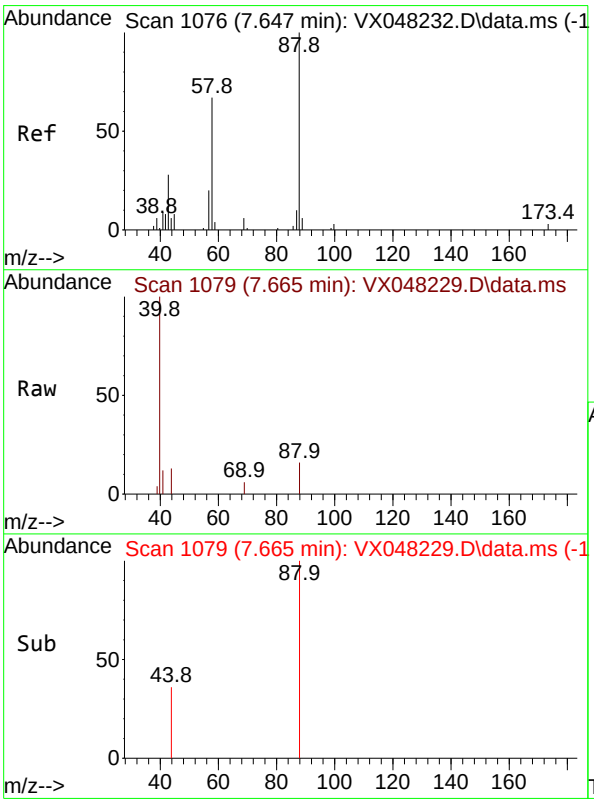
Ion	Ratio	Lower	Upper
41	100		
69	77.6	63.4	95.0
39	51.7	47.1	70.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

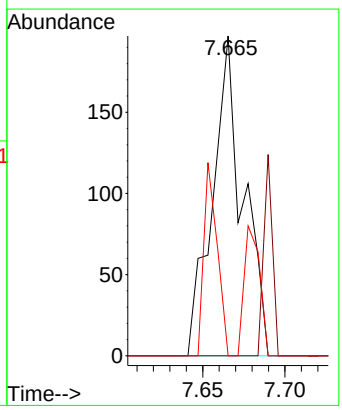


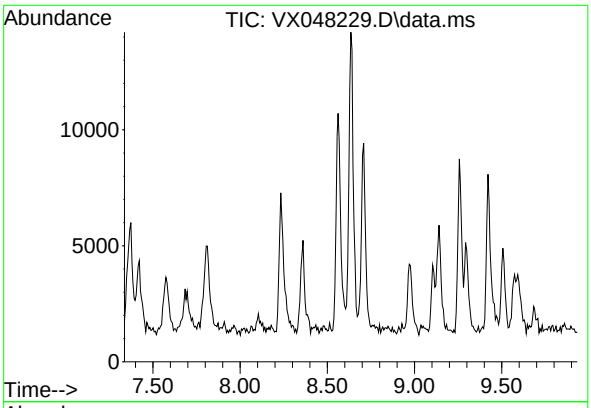


#49
1,4-Dioxane
Concen: 21.840 ug/l
RT: 7.665 min Scan# 1079
Delta R.T. 0.024 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 88 Resp: 255

Ion	Ratio	Lower	Upper
88	100		
43	0.0	35.0	52.4#
58	20.8	61.9	92.9#





#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 8.63 min

Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

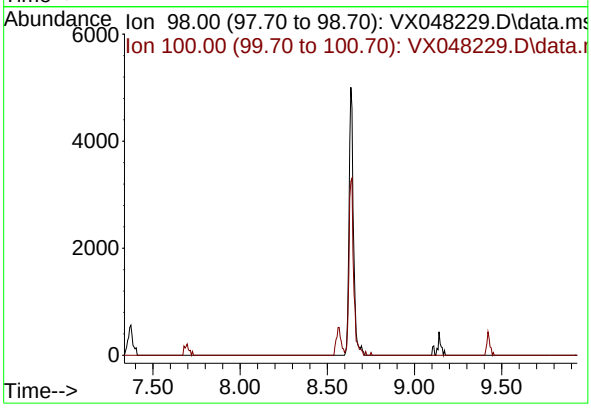
Tgt Ion: 98

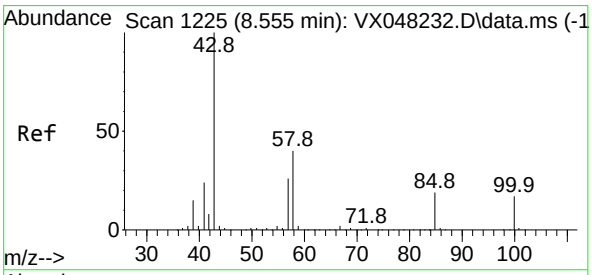
Sig	Exp Ratio
98	100
100	66.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

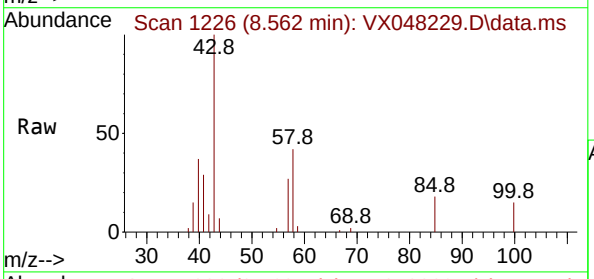


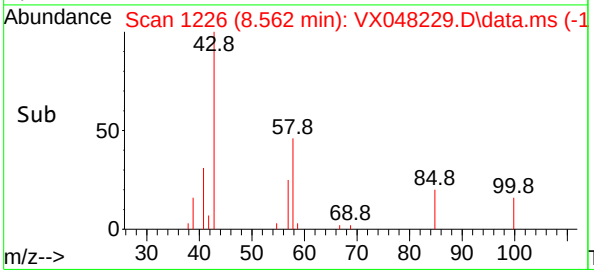


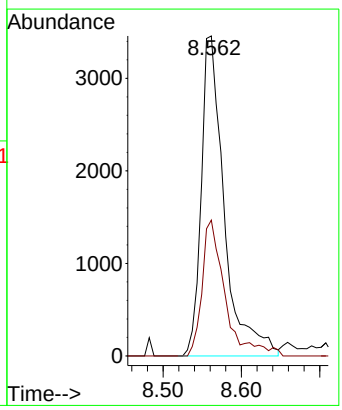
#51
4-Methyl-2-Pentanone
Concen: 5.011 ug/l
RT: 8.562 min Scan# 1226
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

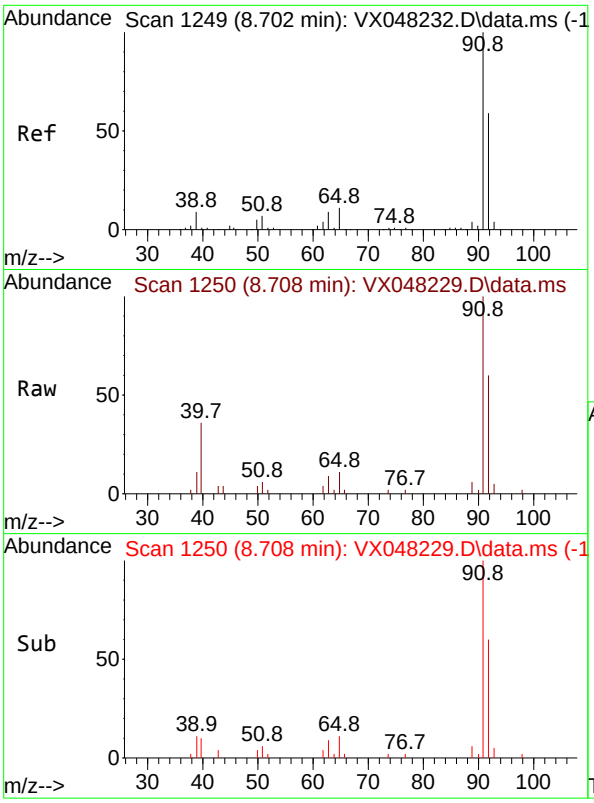
Tgt Ion: 43 Resp: 7066

Ion	Ratio	Lower	Upper
43	100		
58	42.1	29.5	44.3





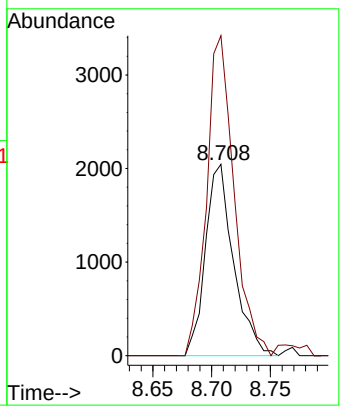




#52
Toluene
Concen: 1.010 ug/l
RT: 8.708 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 92 Resp: 340

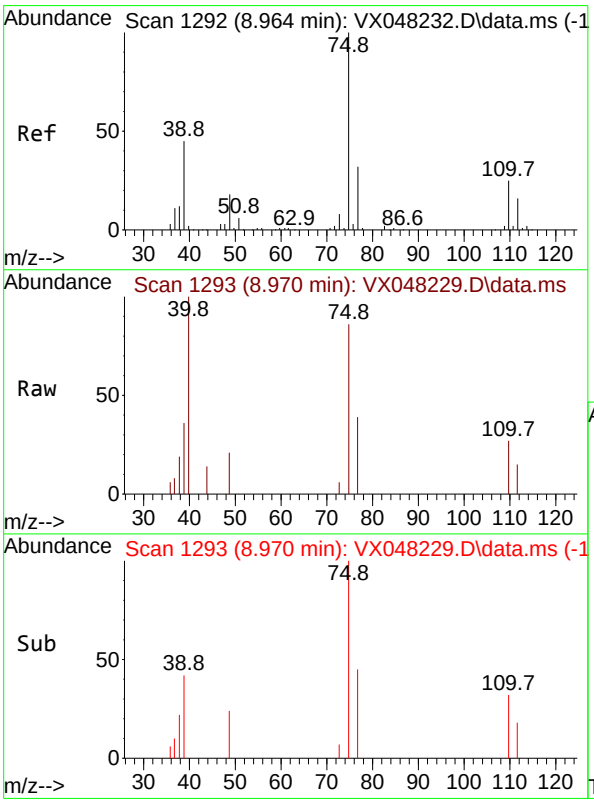
Ion	Ratio	Lower	Upper
92	100		
91	162.8	136.1	204.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

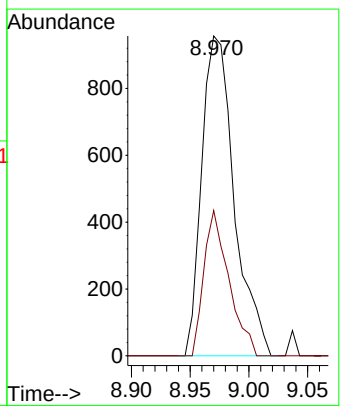
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

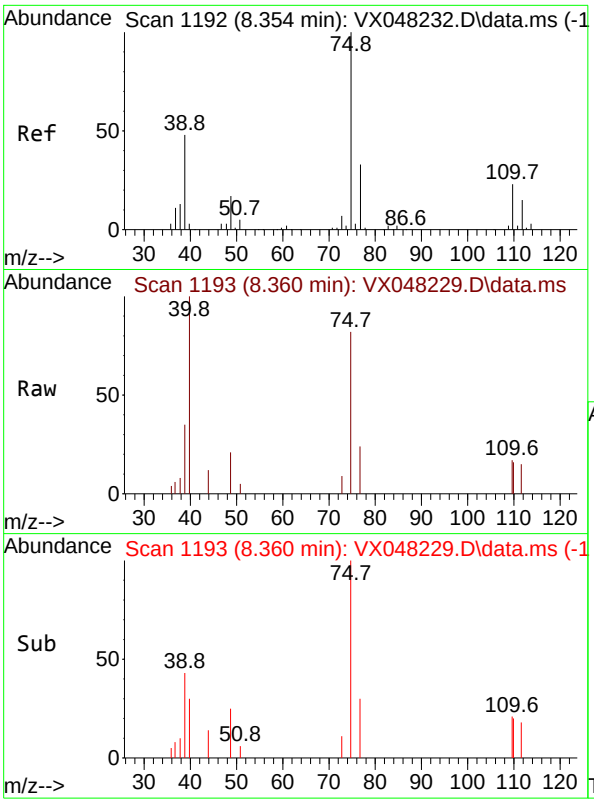


#53
t-1,3-Dichloropropene
Concen: 0.892 ug/l
RT: 8.970 min Scan# 1293
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 75 Resp: 1844

Ion	Ratio	Lower	Upper
75	100		
77	45.5	25.0	37.6#

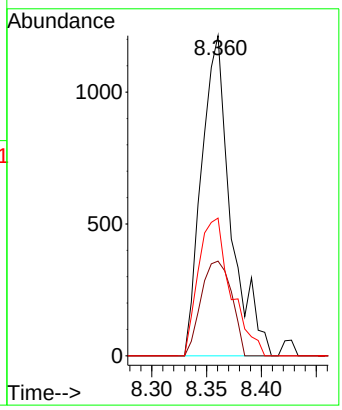




#54
cis-1,3-Dichloropropene
Concen: 0.998 ug/l
RT: 8.360 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 75 Resp: 225

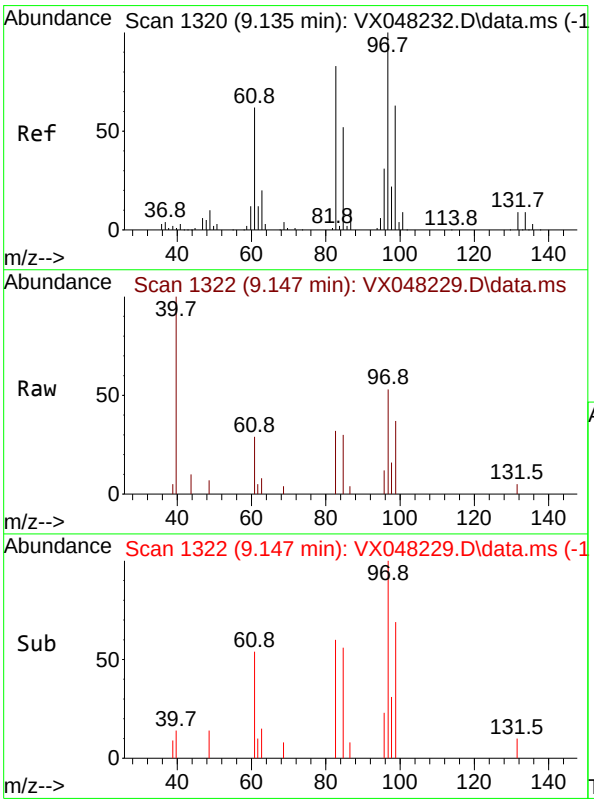
Ion	Ratio	Lower	Upper
75	100		
77	29.6	24.9	37.3
39	43.0	42.6	64.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

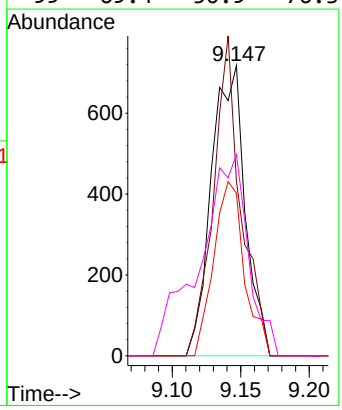
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

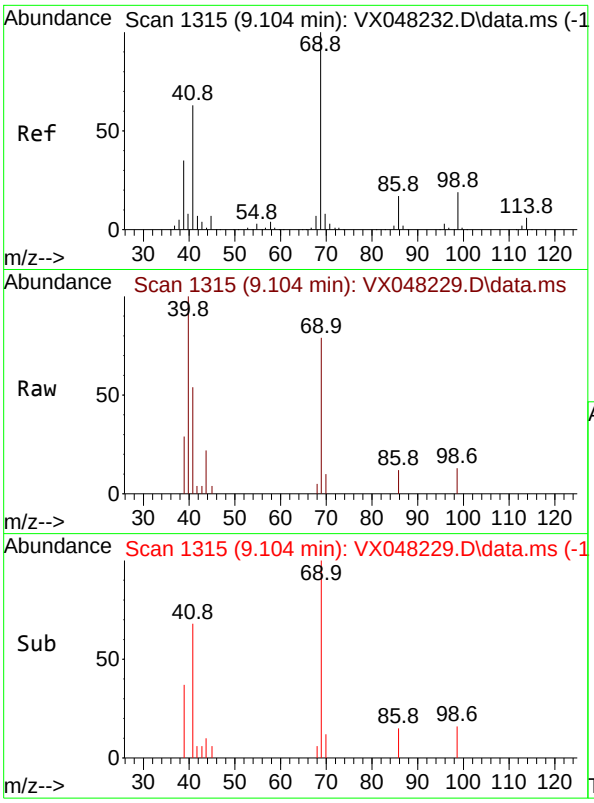


#55
1,1,2-Trichloroethane
Concen: 0.977 ug/l
RT: 9.147 min Scan# 1322
Delta R.T. 0.012 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 97 Resp: 1229

Ion	Ratio	Lower	Upper
97	100		
83	60.2	70.6	105.8#
85	56.0	45.0	67.6
99	69.4	50.9	76.3

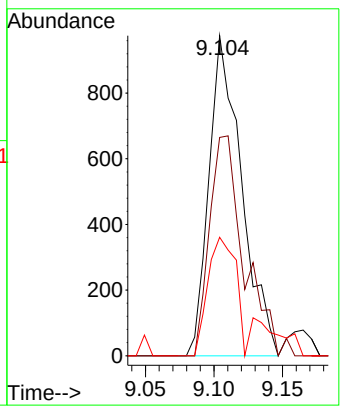




#56
Ethyl methacrylate
Concen: 0.945 ug/l
RT: 9.104 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 69 Resp: 161

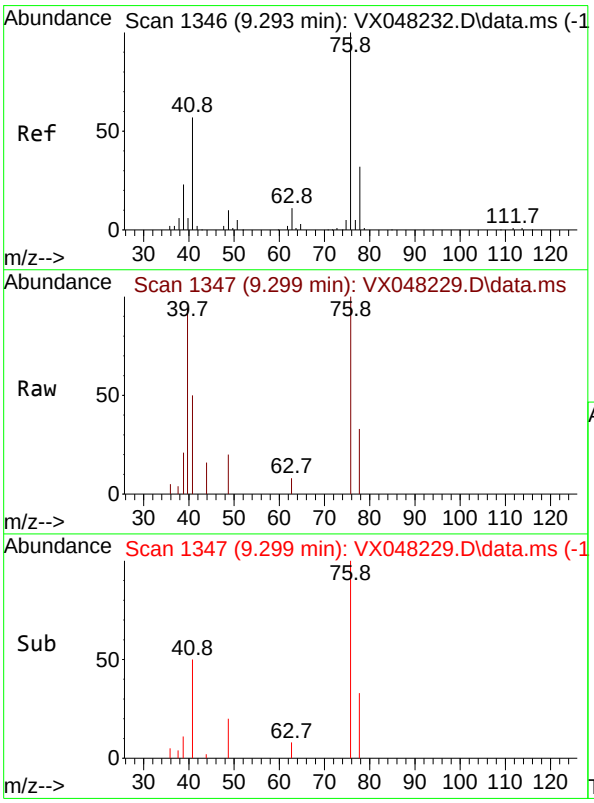
Ion	Ratio	Lower	Upper
69	100		
41	73.0	56.0	84.0
39	36.5	31.6	47.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

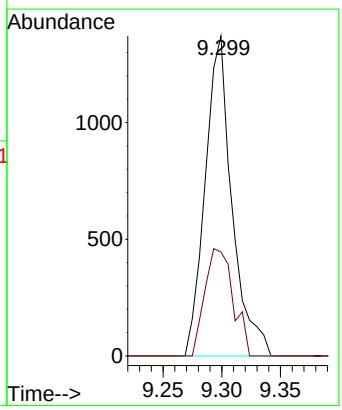
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

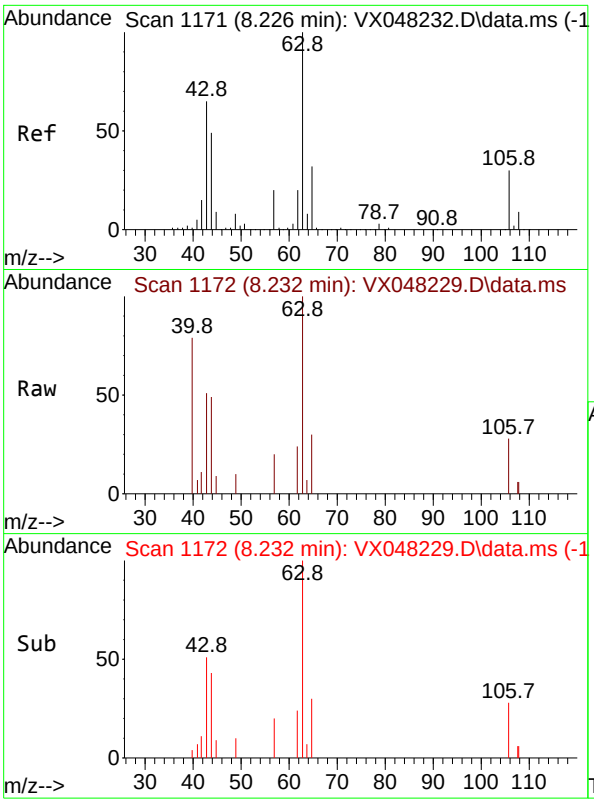


#57
1,3-Dichloropropane
Concen: 0.989 ug/l
RT: 9.299 min Scan# 1347
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 76 Resp: 2174

Ion	Ratio	Lower	Upper
76	100		
78	35.5	25.4	38.0





#58
2-Chloroethyl Vinyl ether
Concen: 3.381 ug/l
RT: 8.232 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

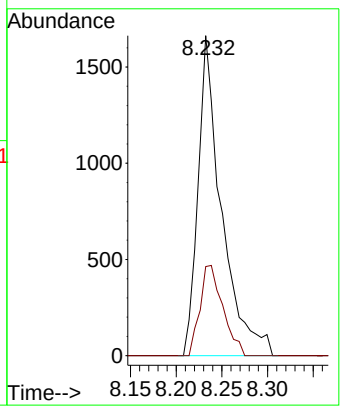
Tgt Ion: 63 Resp: 297

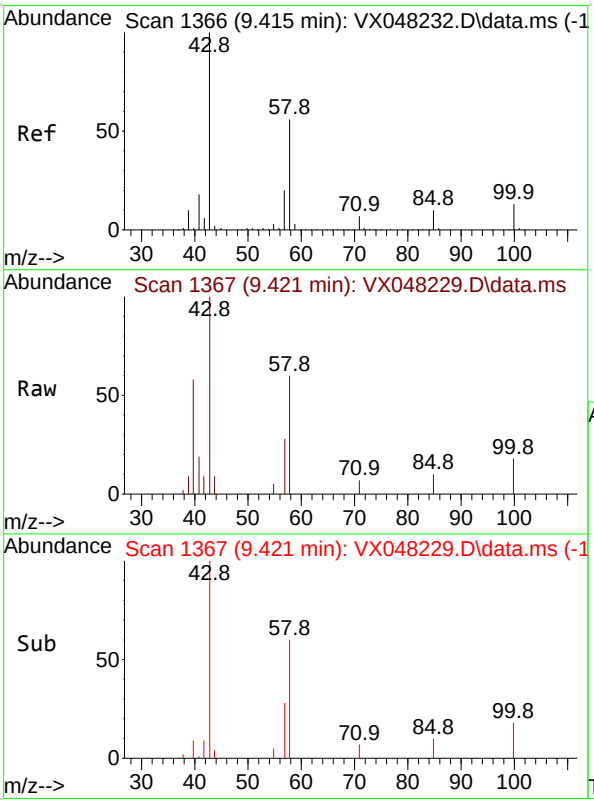
Ion	Ratio	Lower	Upper
63	100		
106	27.5	22.2	33.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

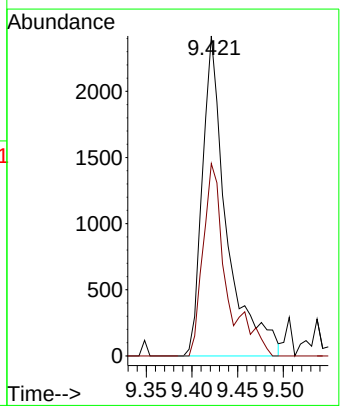


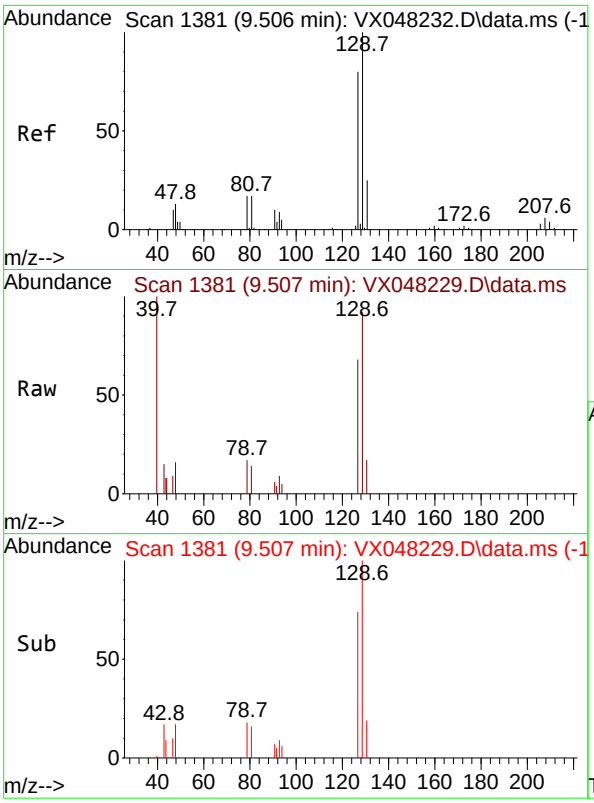


#59
2-Hexanone
Concen: 4.518 ug/l
RT: 9.421 min Scan# 1367
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 43 Resp: 4456

Ion	Ratio	Lower	Upper
43	100		
58	58.1	26.3	78.8





#60
Dibromochloromethane
Concen: 1.183 ug/l
RT: 9.507 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

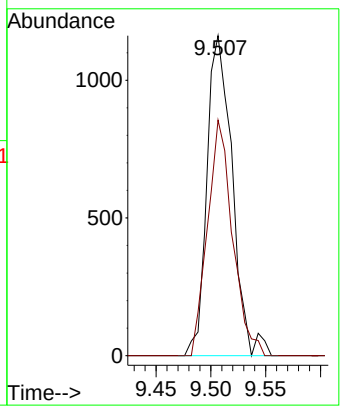
Tgt Ion:129 Resp: 186

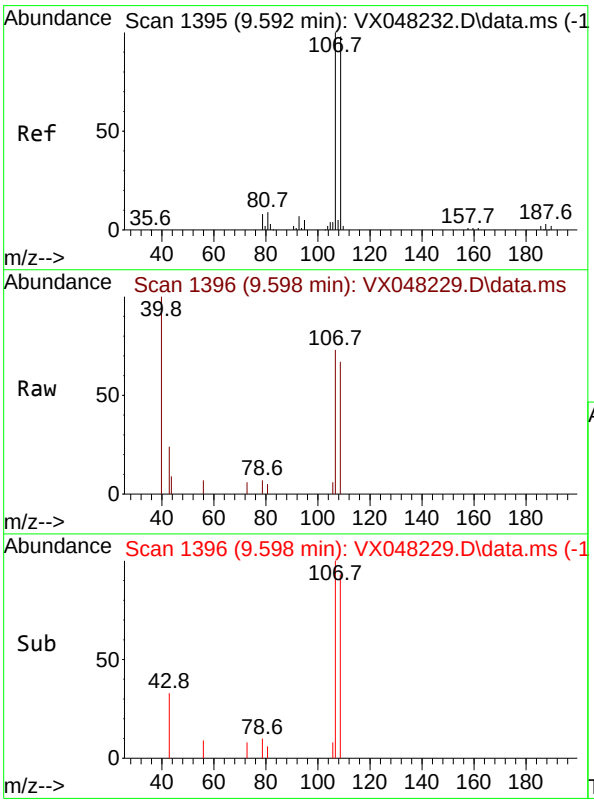
Ion	Ratio	Lower	Upper
129	100		
127	72.9	38.6	115.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

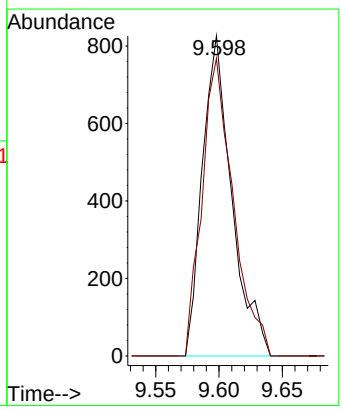


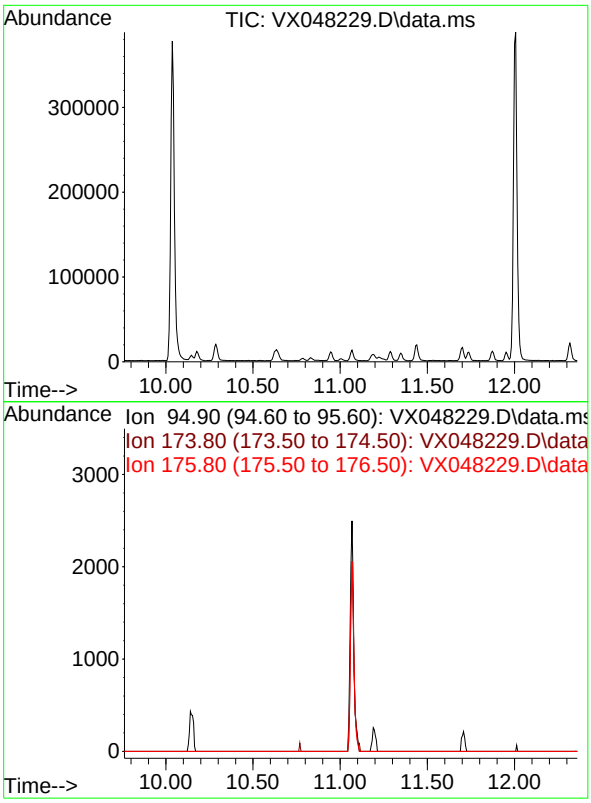


#61
1,2-Dibromoethane
Concen: 1.037 ug/l
RT: 9.598 min Scan# 1396
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:107 Resp: 1338

Ion	Ratio	Lower	Upper
107	100		
109	98.6	77.0	115.4





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 11.06 min

Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

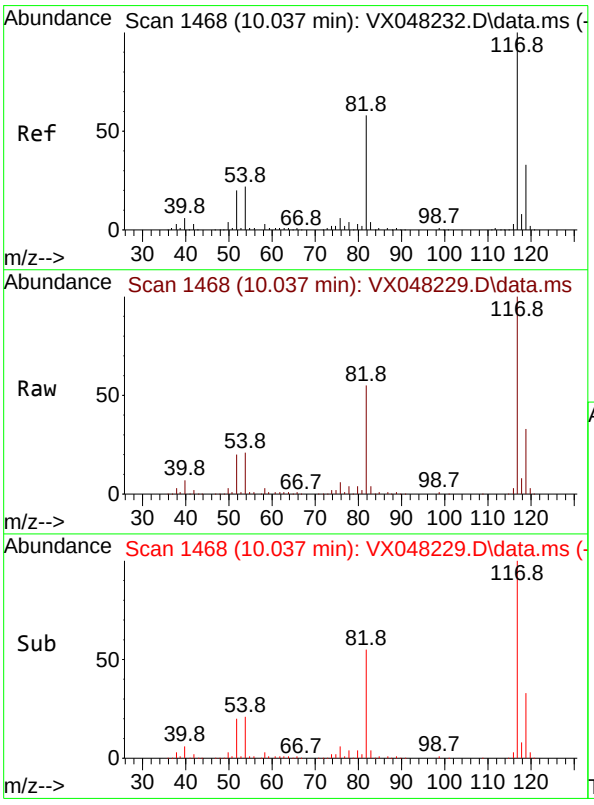
Tgt Ion: 95

Sig	Exp Ratio
95	100
174	73.9
176	71.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

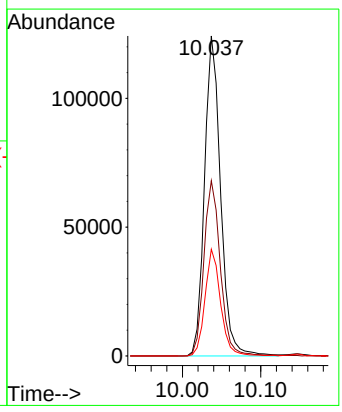
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

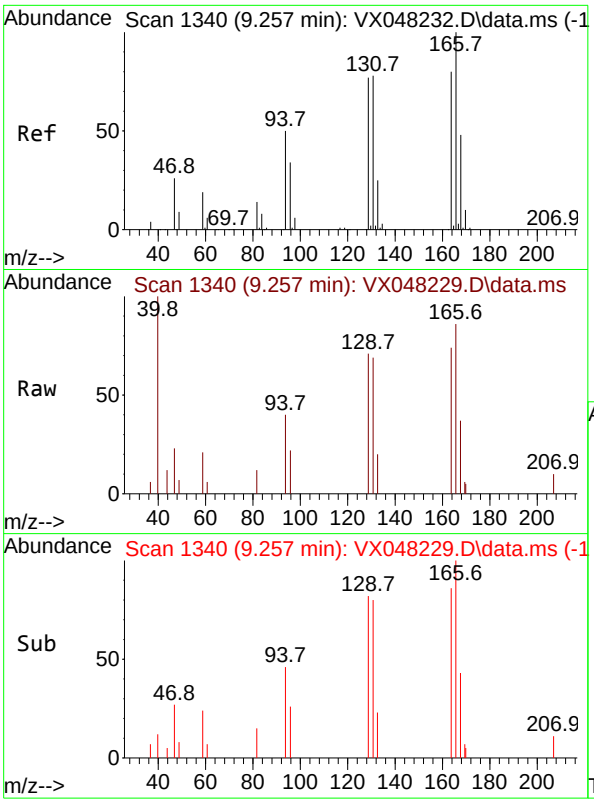


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:117 Resp: 177252

Ion	Ratio	Lower	Upper
117	100		
82	54.8	46.5	69.7
119	33.3	25.9	38.9

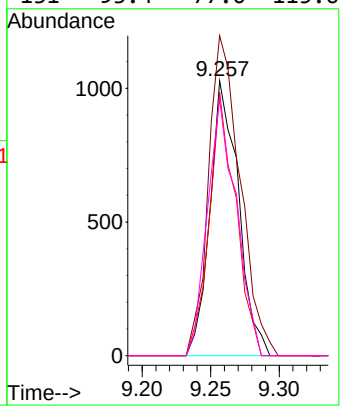




#64
Tetrachloroethene
Concen: 1.192 ug/l
RT: 9.257 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:164 Resp: 148

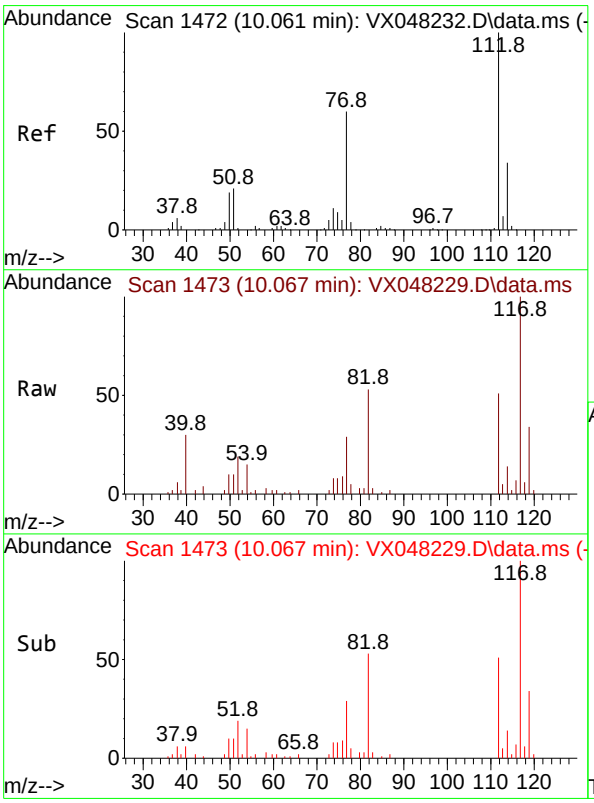
Ion	Ratio	Lower	Upper
164	100		
166	116.4	104.5	156.7
129	95.9	81.8	122.6
131	93.4	77.0	115.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

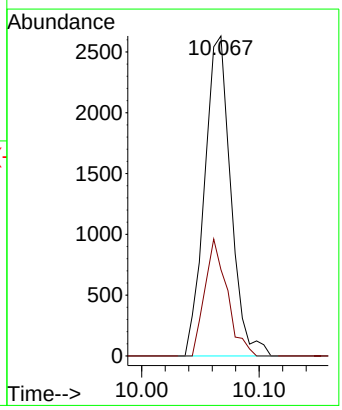
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

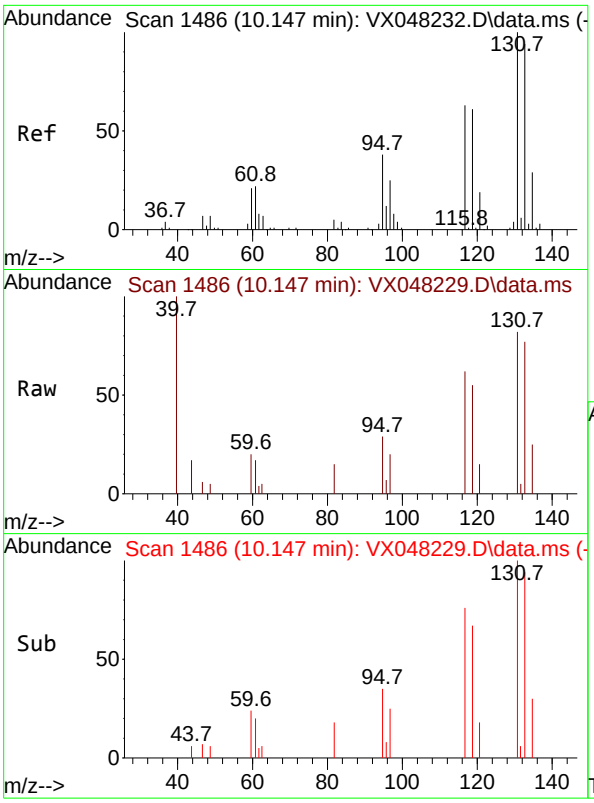


#65
Chlorobenzene
Concen: 1.051 ug/l
RT: 10.067 min Scan# 1473
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:112 Resp: 4073

Ion	Ratio	Lower	Upper
112	100		
114	27.0	26.2	39.2





#66
1,1,1,2-Tetrachloroethane
Concen: 1.070 ug/l
RT: 10.147 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

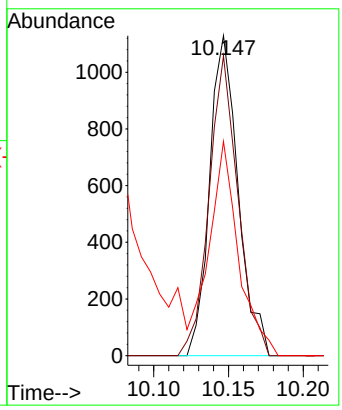
Tgt Ion:131 Resp: 149

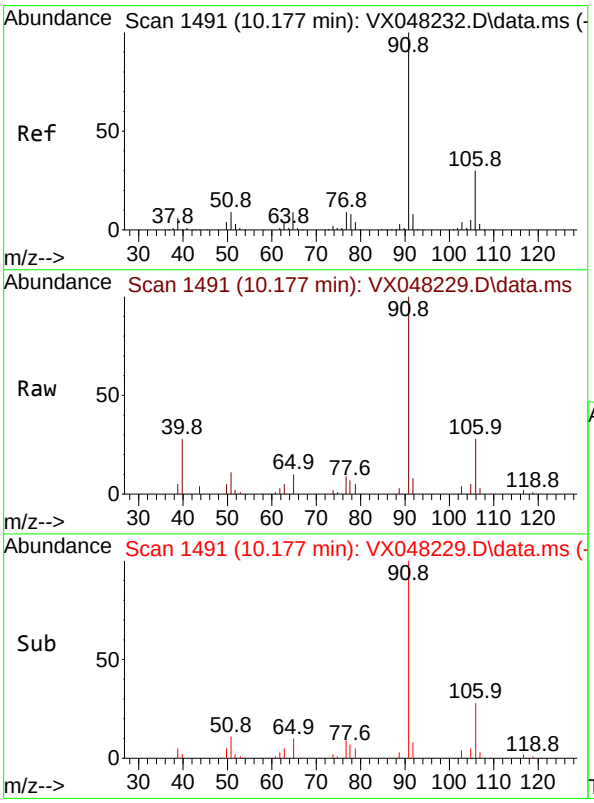
Ion	Ratio	Lower	Upper
131	100		
133	95.1	47.6	142.8
119	0.0	32.5	97.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

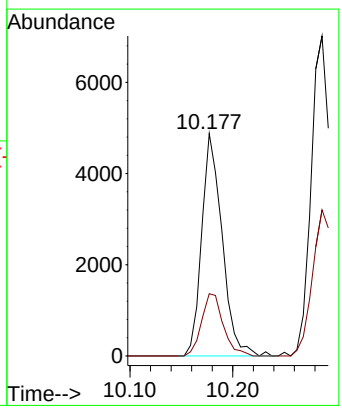


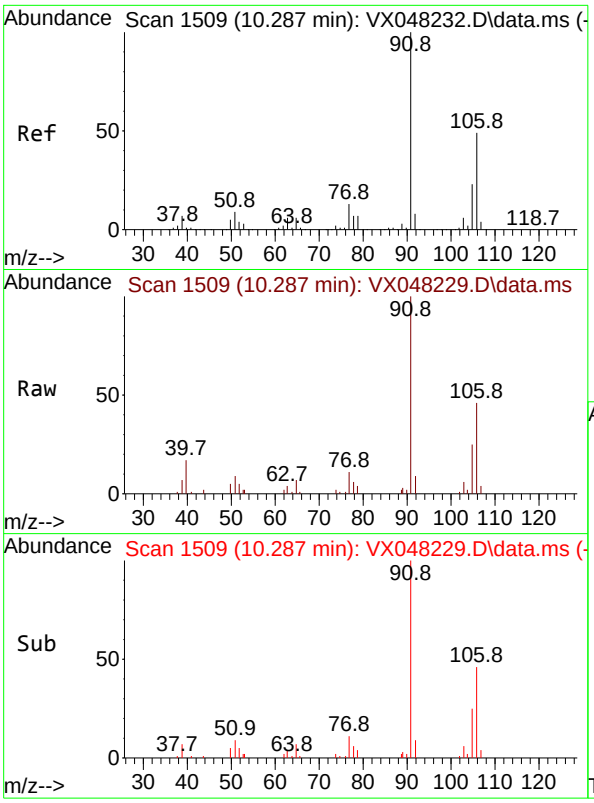


#67
Ethyl Benzene
Concen: 1.016 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 91 Resp: 6752

Ion	Ratio	Lower	Upper
91	100		
106	28.0	23.8	35.6





#68
m/p-Xylenes
Concen: 1.854 ug/l
RT: 10.287 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

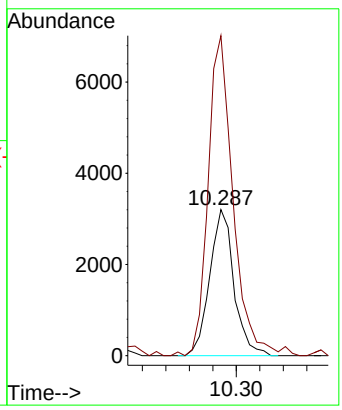
Tgt Ion:106 Resp: 458

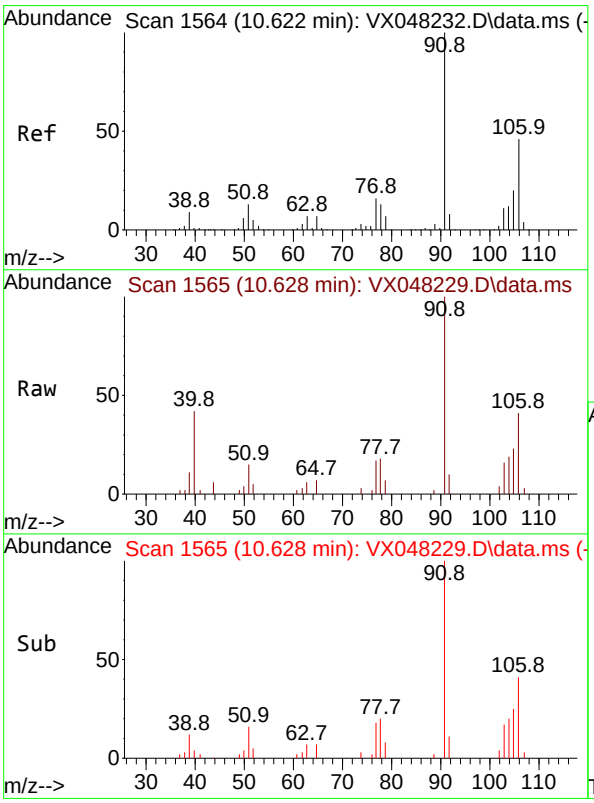
Ion	Ratio	Lower	Upper
106	100		
91	225.6	167.9	251.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

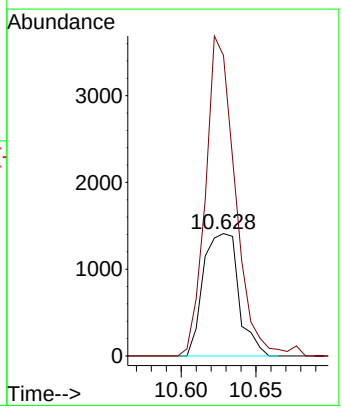


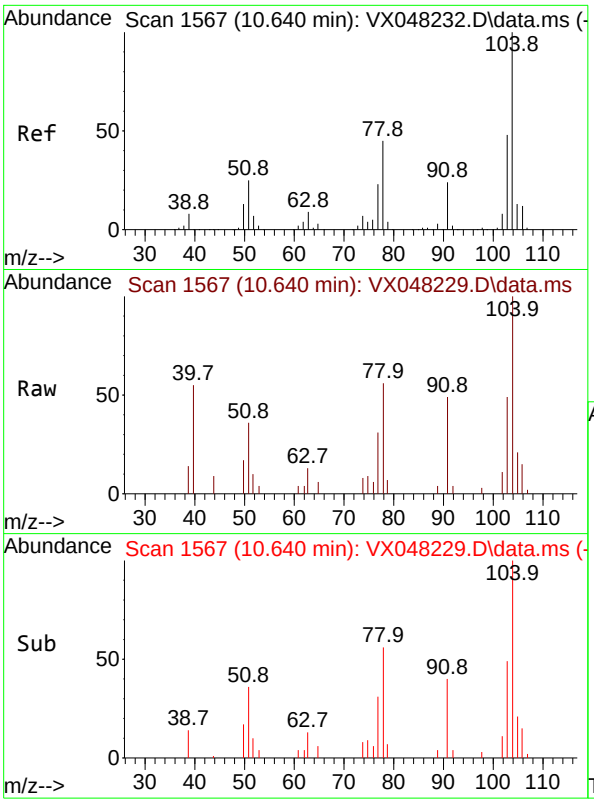


#69
o-Xylene
Concen: 0.993 ug/l
RT: 10.628 min Scan# 1565
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:106 Resp: 2313

Ion	Ratio	Lower	Upper
106	100		
91	221.2	111.3	333.9

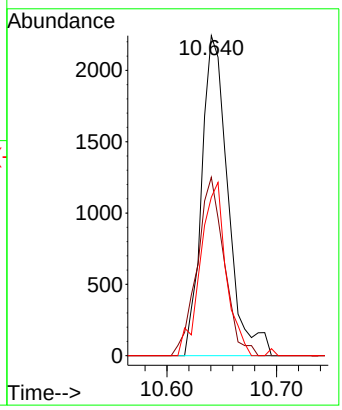




#70
Styrene
Concen: 0.932 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:104 Resp: 373

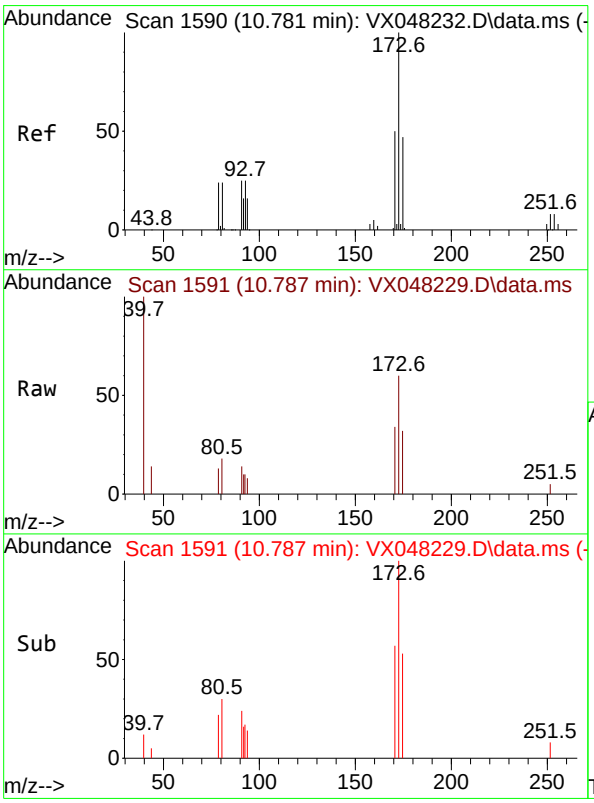
Ion	Ratio	Lower	Upper
104	100		
78	57.1	42.2	63.4
103	52.6	43.0	64.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

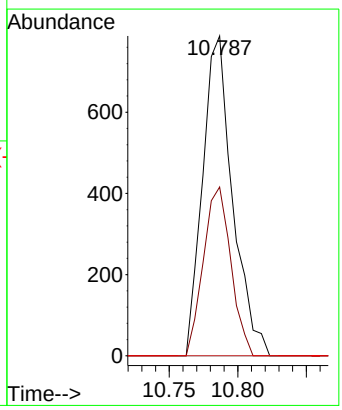
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

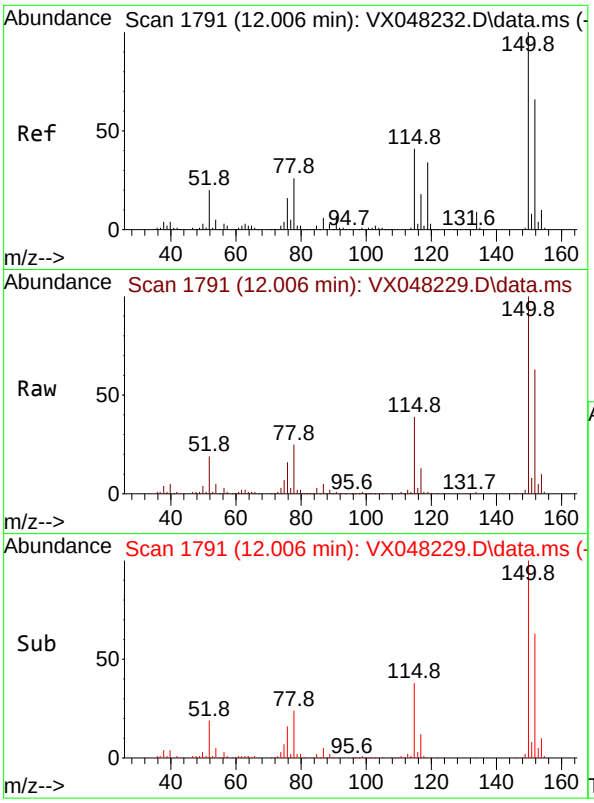


#71
Bromoform
Concen: 1.168 ug/l
RT: 10.787 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:173 Resp: 1198

Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.0	72.0
254	0.0	0.0	0.0

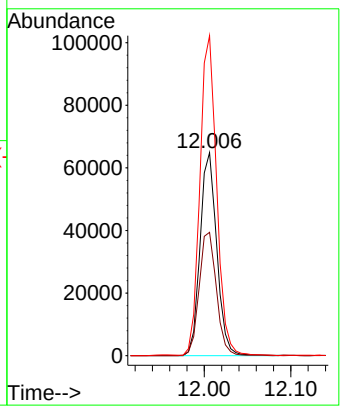




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:152 Resp: 8694

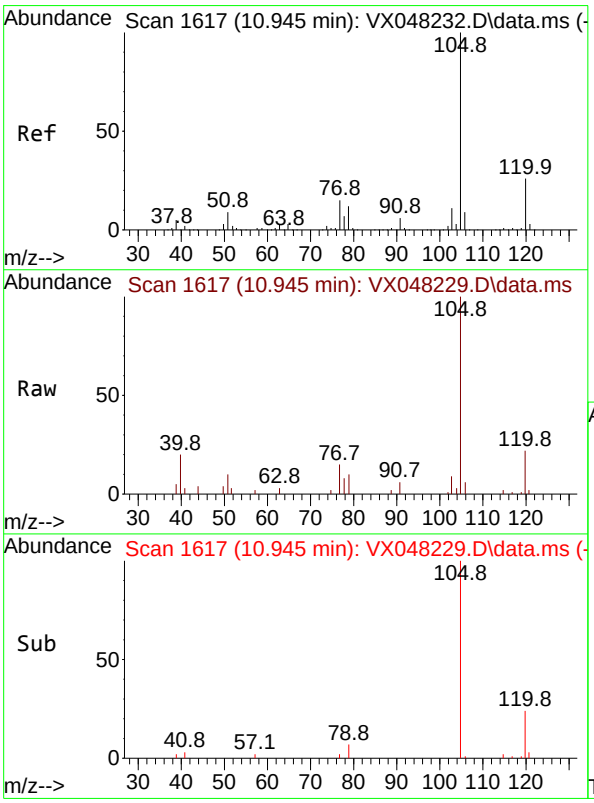
Ion	Ratio	Lower	Upper
152	100		
115	63.0	43.1	129.4
150	158.2	0.0	353.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

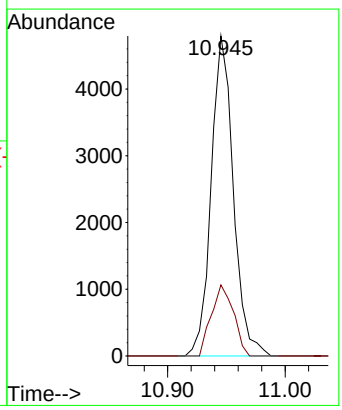
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

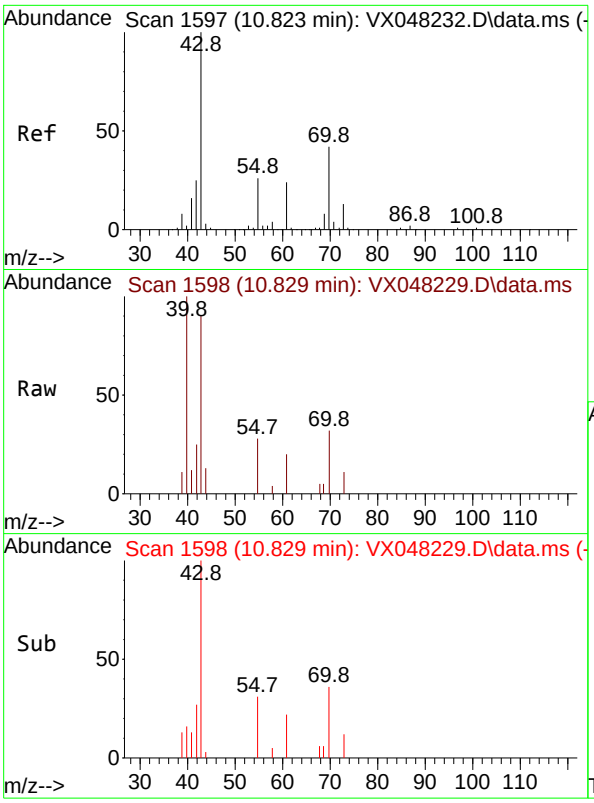


#73
Isopropylbenzene
Concen: 1.040 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:105 Resp: 6291

Ion	Ratio	Lower	Upper
105	100		
120	22.2	13.0	38.9

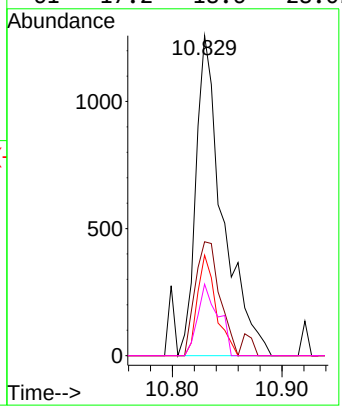




#74
N-amyl acetate
Concen: 0.947 ug/l
RT: 10.829 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 43 Resp: 213

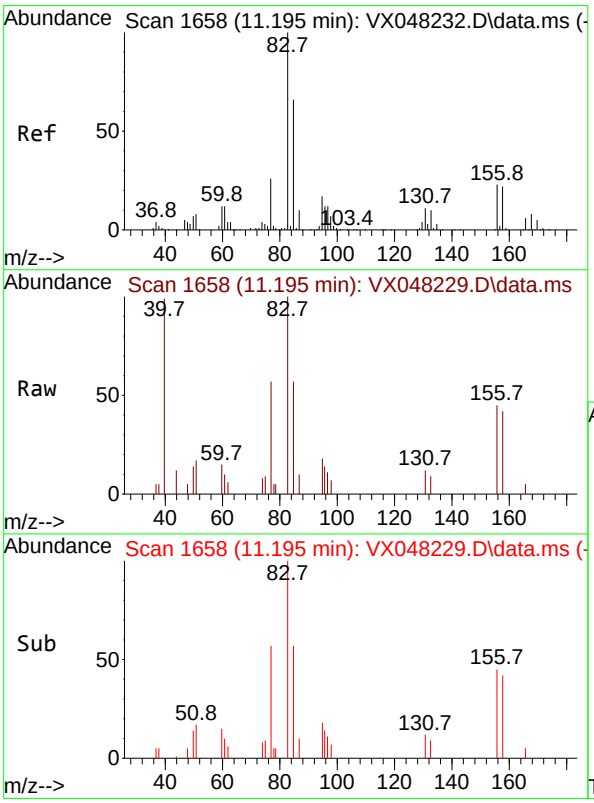
Ion	Ratio	Lower	Upper
43	100		
70	32.8	32.2	48.2
55	22.0	19.1	28.7
61	17.2	18.6	28.0#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

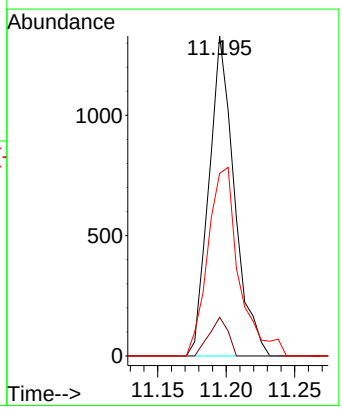
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

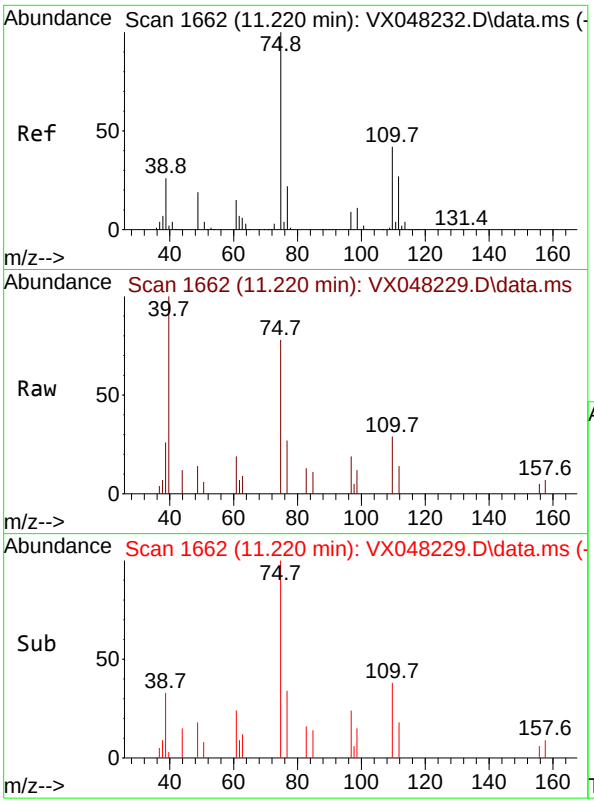


#75
1,1,2,2-Tetrachloroethane
Concen: 1.003 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 83 Resp: 1718

Ion	Ratio	Lower	Upper
83	100		
131	8.9	4.8	14.4
85	72.1	31.9	95.7





#76
1,2,3-Trichloropropane
Concen: 1.216 ug/l m
RT: 11.220 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

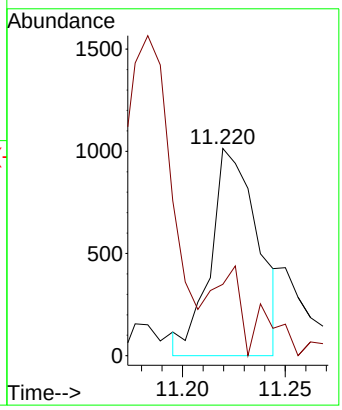
Tgt Ion: 75 Resp: 161

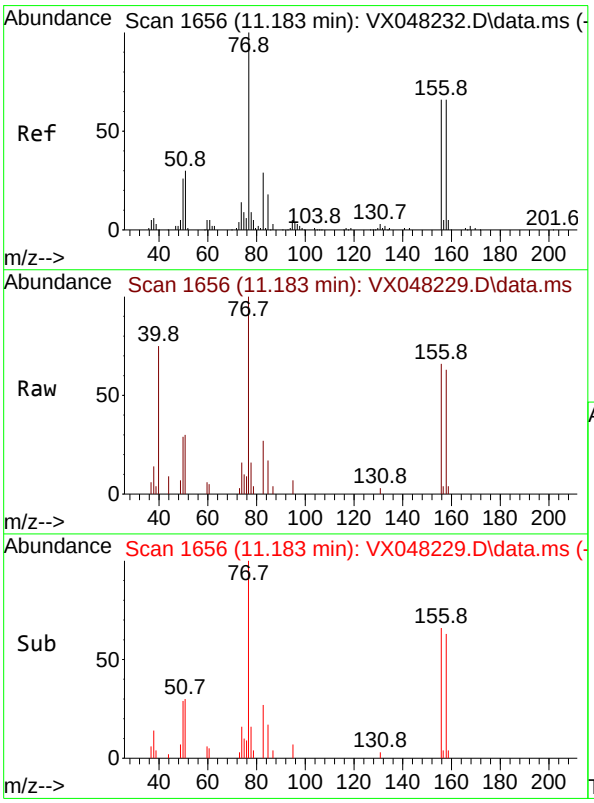
Ion	Ratio	Lower	Upper
75	100		
77	40.2	22.4	67.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

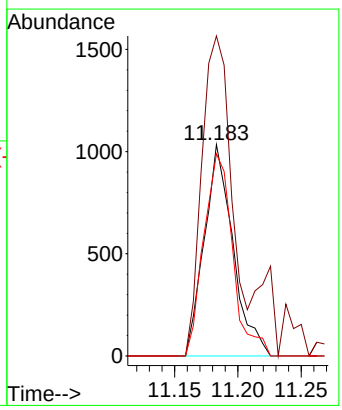


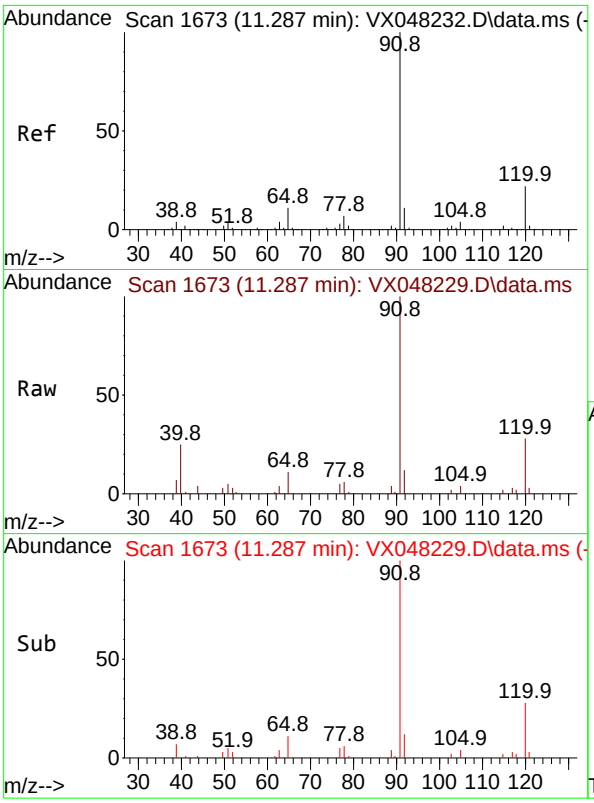


#77
Bromobenzene
Concen: 1.080 ug/l
RT: 11.183 min Scan# 1656
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:156 Resp: 1635

Ion	Ratio	Lower	Upper
156	100		
77	155.2	87.0	261.0
158	96.4	47.8	143.4





#78
n-propylbenzene
Concen: 0.949 ug/l
RT: 11.287 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

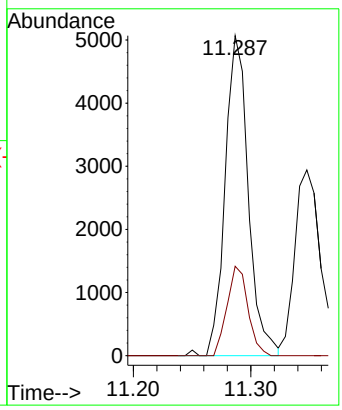
Tgt Ion: 91 Resp: 695

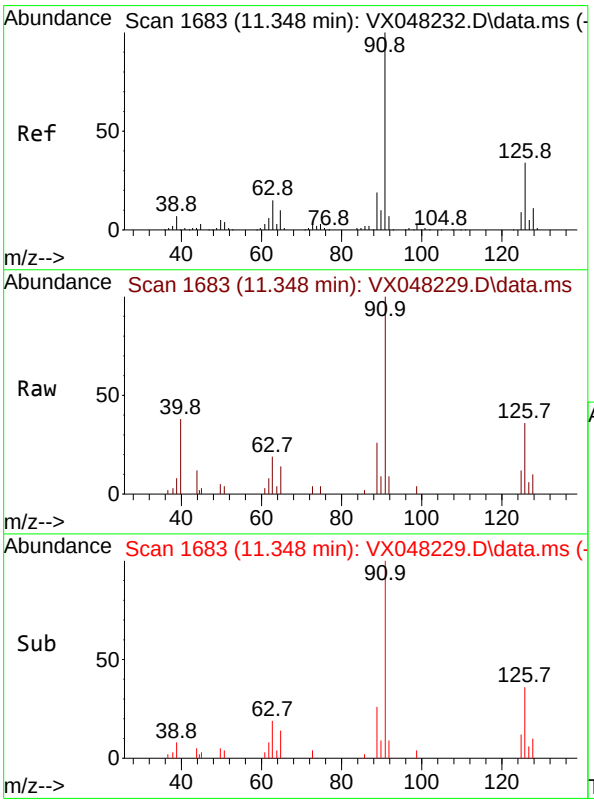
Ion	Ratio	Lower	Upper
91	100		
120	25.2	11.1	33.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

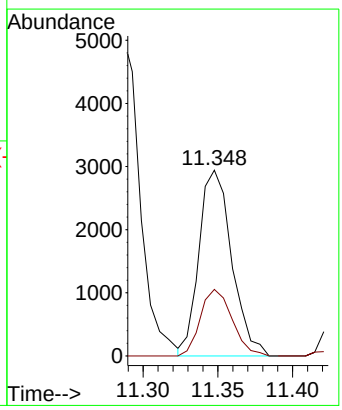


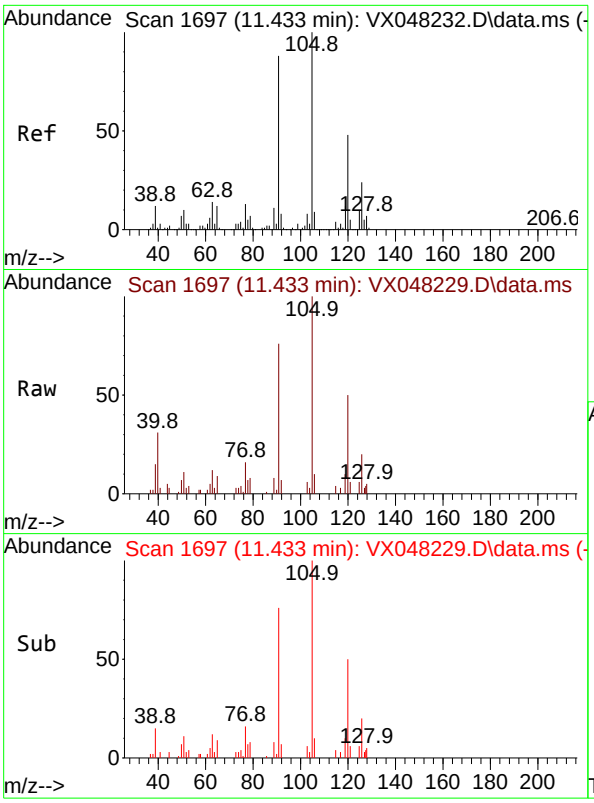


#79
2-Chlorotoluene
Concen: 1.010 ug/l
RT: 11.348 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 91 Resp: 4477

Ion	Ratio	Lower	Upper
91	100		
126	34.8	16.4	49.4





#80
1,3,5-Trimethylbenzene
Concen: 1.047 ug/l
RT: 11.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

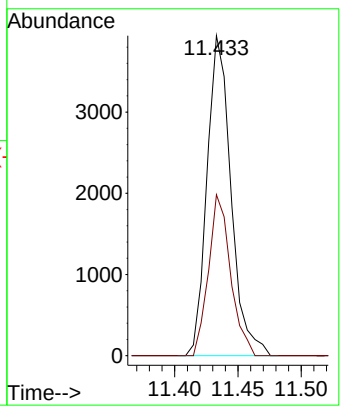
Tgt Ion:105 Resp: 519

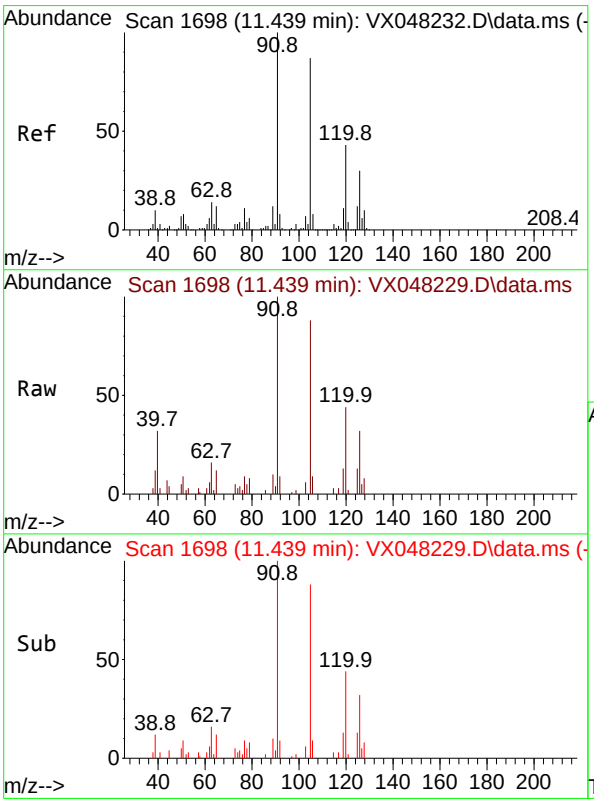
Ion	Ratio	Lower	Upper
105	100		
120	46.2	24.0	72.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

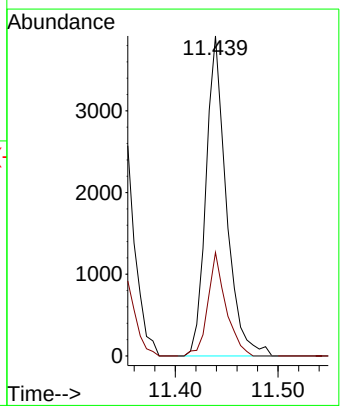


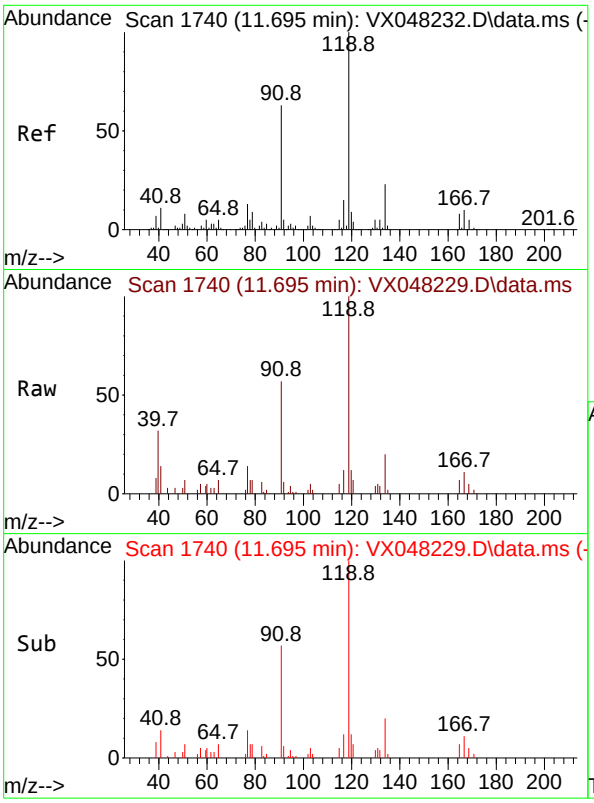


#82
4-Chlorotoluene
Concen: 1.034 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 91 Resp: 5385

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.1	42.4





#83
tert-Butylbenzene
Concen: 1.085 ug/l
RT: 11.695 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

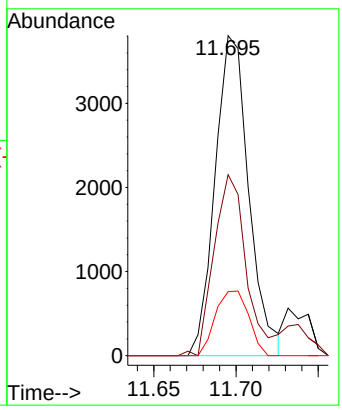
Tgt Ion:119 Resp: 543

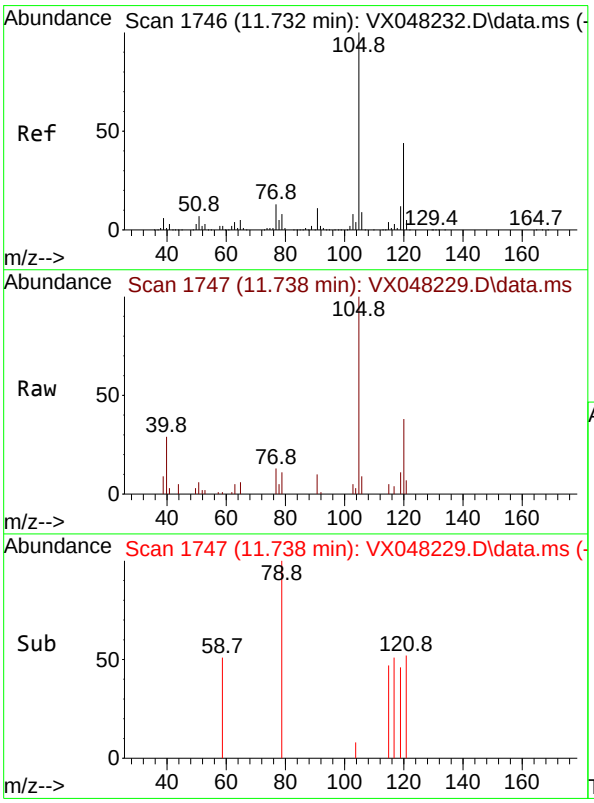
Ion	Ratio	Lower	Upper
119	100		
91	53.0	30.3	91.0
134	19.9	11.4	34.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

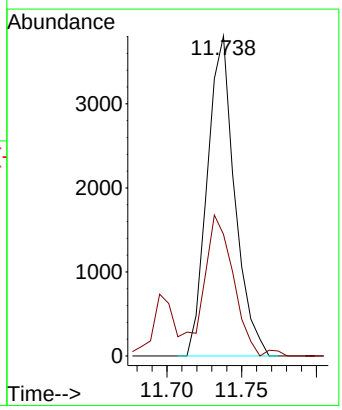


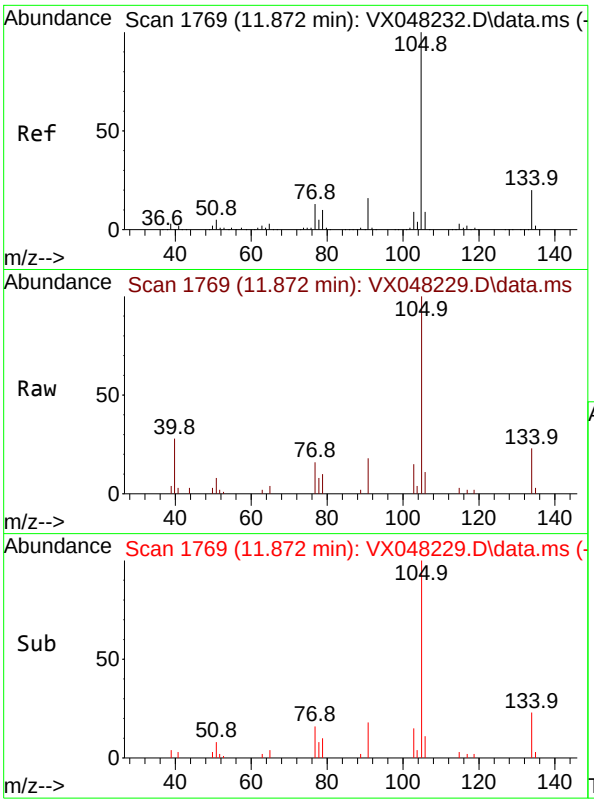


#84
1,2,4-Trimethylbenzene
Concen: 0.982 ug/l
RT: 11.738 min Scan# 1747
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:105 Resp: 4854

Ion	Ratio	Lower	Upper
105	100		
120	43.9	22.1	66.5





#85
sec-Butylbenzene
Concen: 1.075 ug/l
RT: 11.872 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

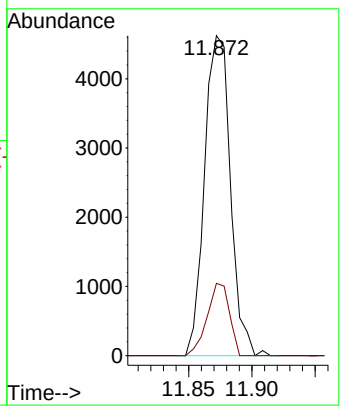
Tgt Ion:105 Resp: 658

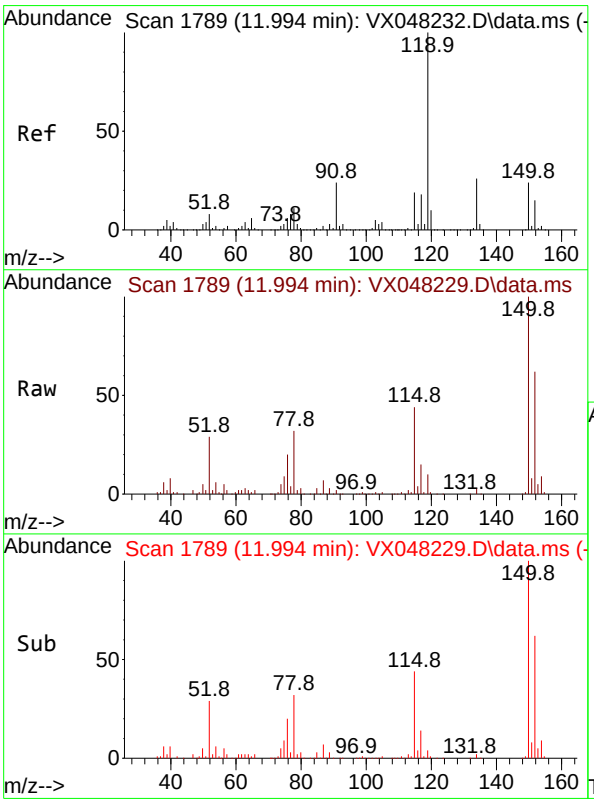
Ion	Ratio	Lower	Upper
105	100		
134	19.4	10.1	30.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

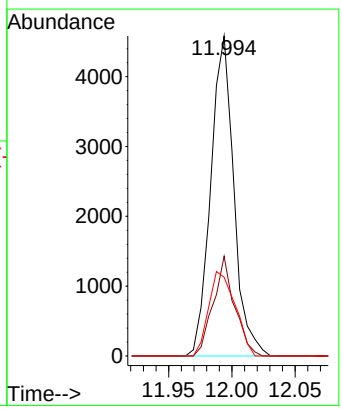


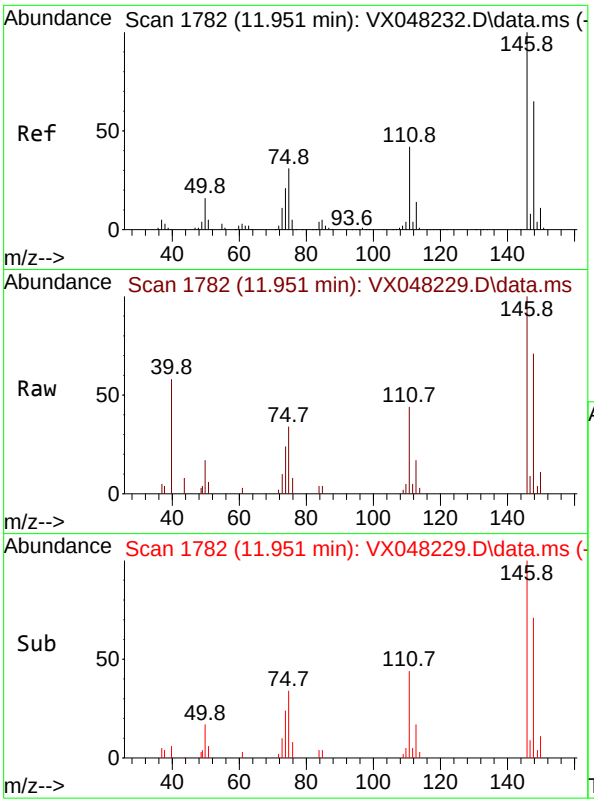


#86
p-Isopropyltoluene
Concen: 1.125 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:119 Resp: 5812

Ion	Ratio	Lower	Upper
119	100		
134	28.8	13.0	39.0
91	30.5	12.1	36.3

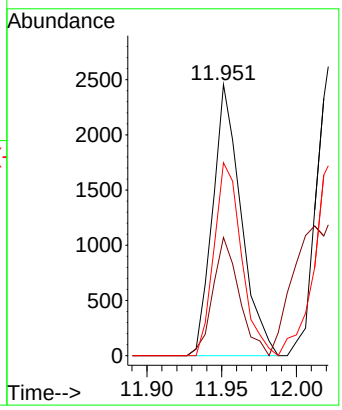




#87
1,3-Dichlorobenzene
Concen: 1.145 ug/l
RT: 11.951 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:146 Resp: 323

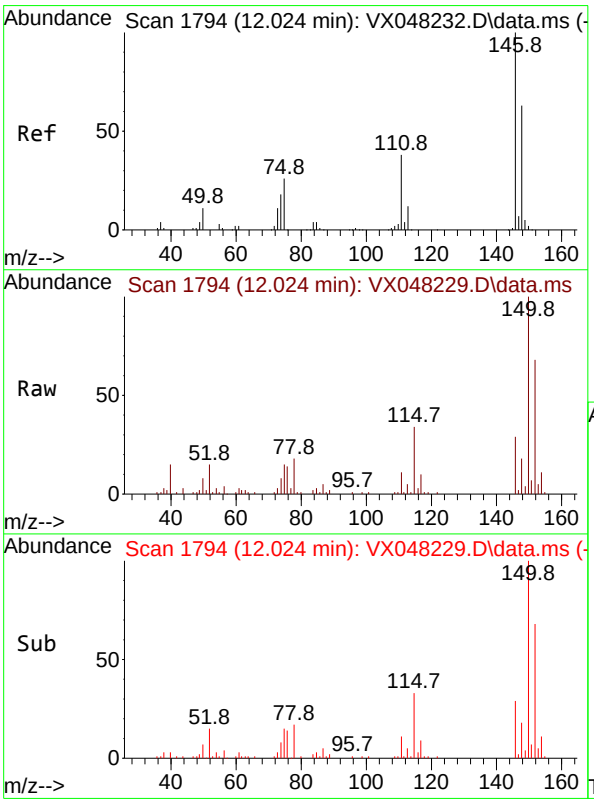
Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.4	61.2
148	68.9	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

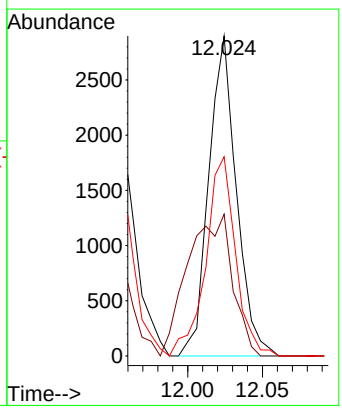
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

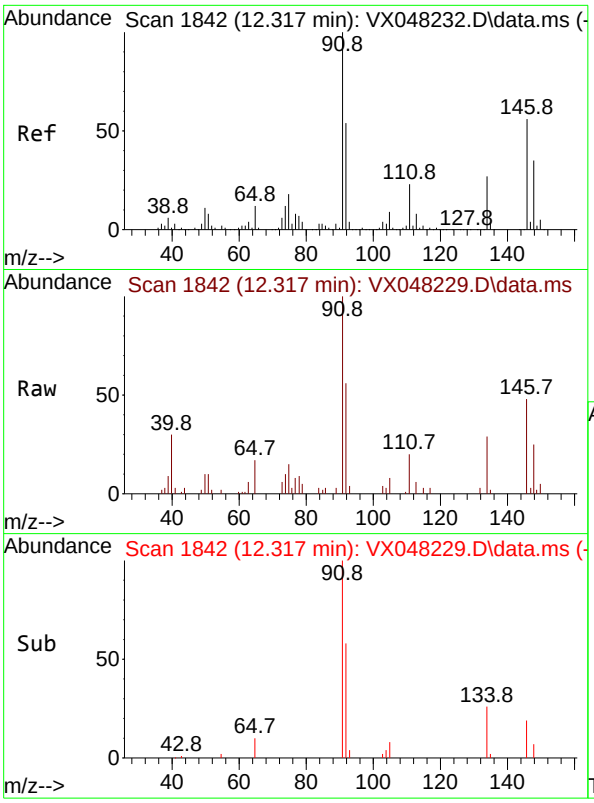


#88
1,4-Dichlorobenzene
Concen: 1.270 ug/l m
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:146 Resp: 3727

Ion	Ratio	Lower	Upper
146	100		
111	35.2	20.1	60.2
148	59.9	31.8	95.3

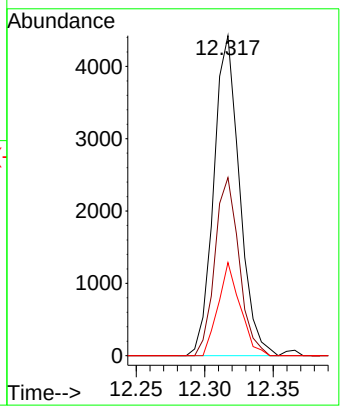




#89
n-Butylbenzene
Concen: 1.202 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 91 Resp: 578

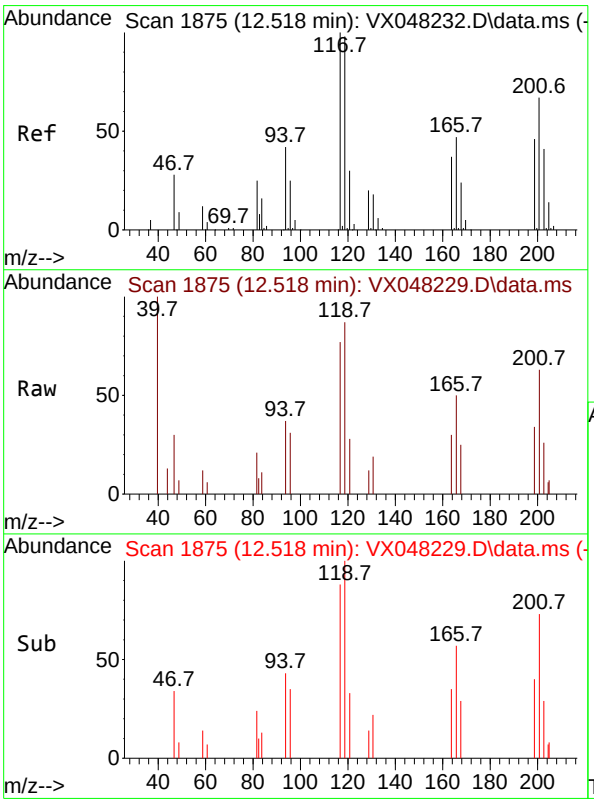
Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.9	80.6
134	24.9	12.7	38.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

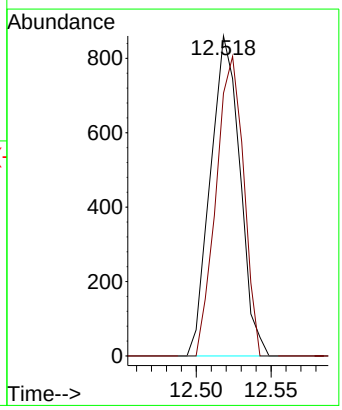
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

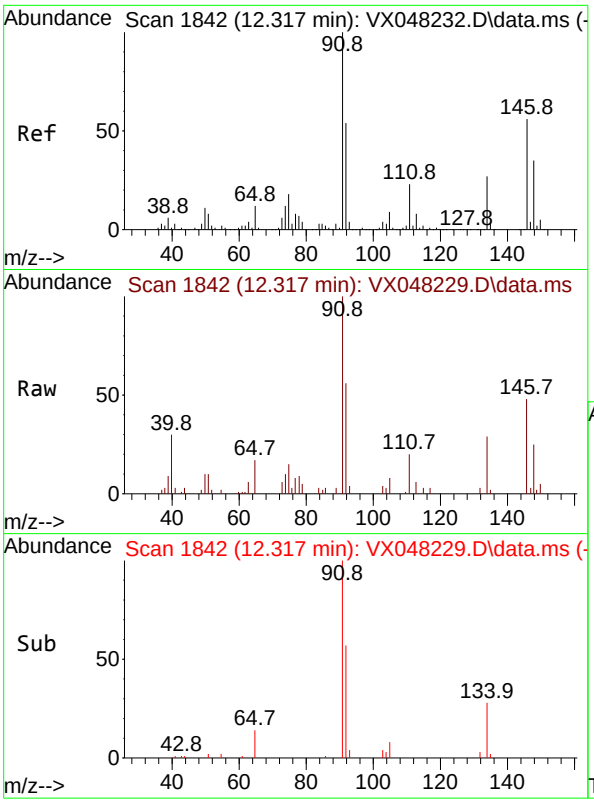


#90
Hexachloroethane
Concen: 1.084 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:117 Resp: 1182

Ion	Ratio	Lower	Upper
117	100		
201	87.1	34.1	102.2

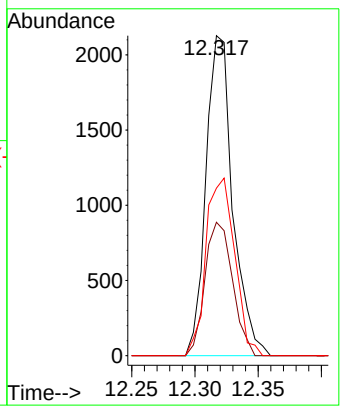




#91
1,2-Dichlorobenzene
Concen: 1.172 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:146 Resp: 313

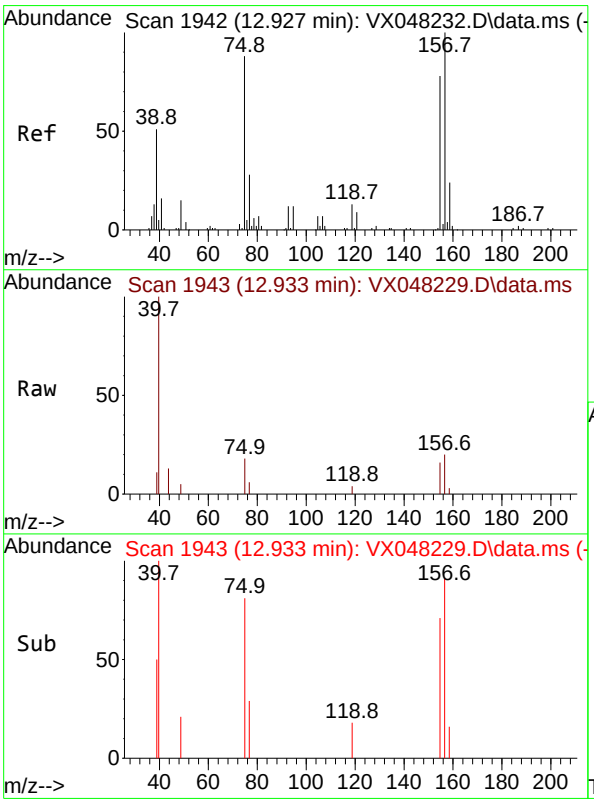
Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.9	65.5
148	59.5	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

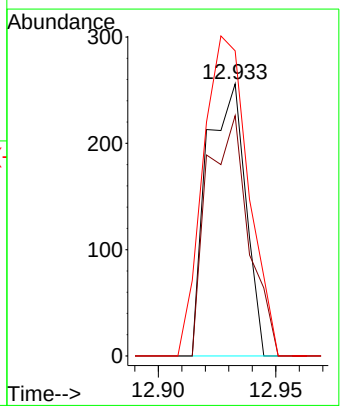
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

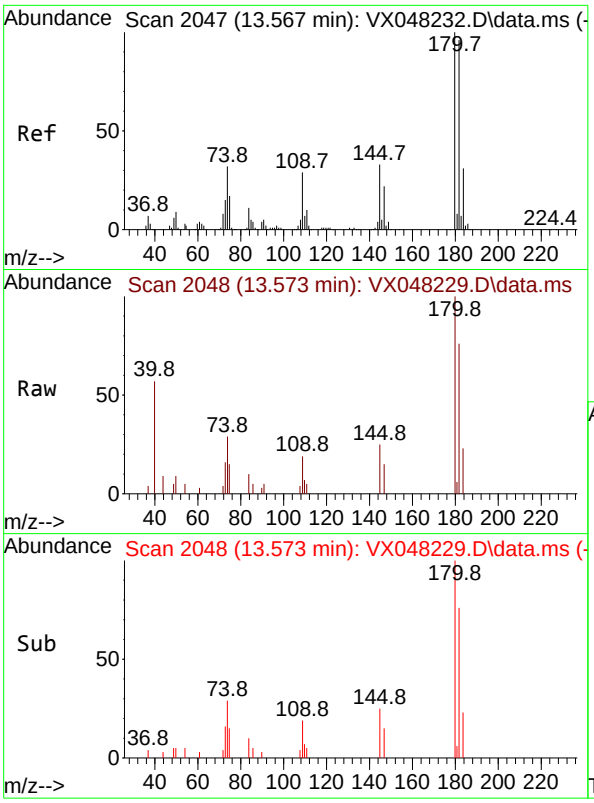


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.926 ug/l
RT: 12.933 min Scan# 1943
Delta R.T. 0.012 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 75 Resp: 290

Ion	Ratio	Lower	Upper
75	100		
155	95.2	42.8	128.4
157	139.0	54.2	162.6

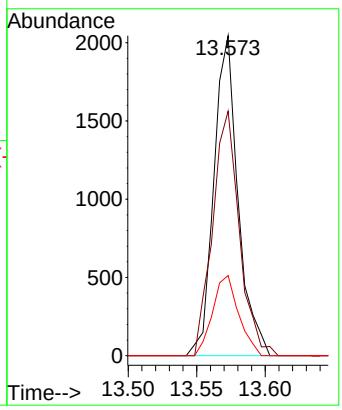




#93
1,2,4-Trichlorobenzene
Concen: 1.587 ug/l
RT: 13.573 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:180 Resp: 250

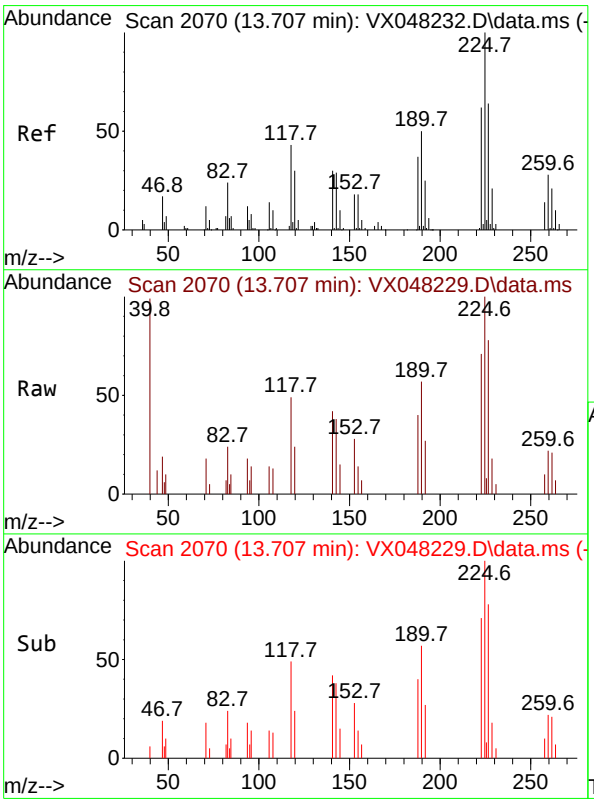
Ion	Ratio	Lower	Upper
180	100		
182	84.5	47.3	142.0
145	27.1	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

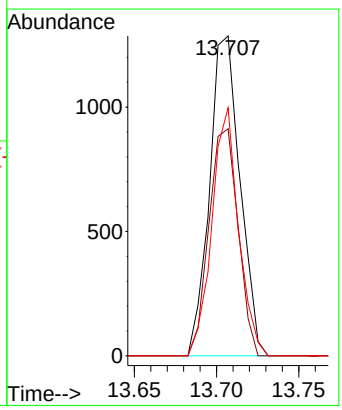
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

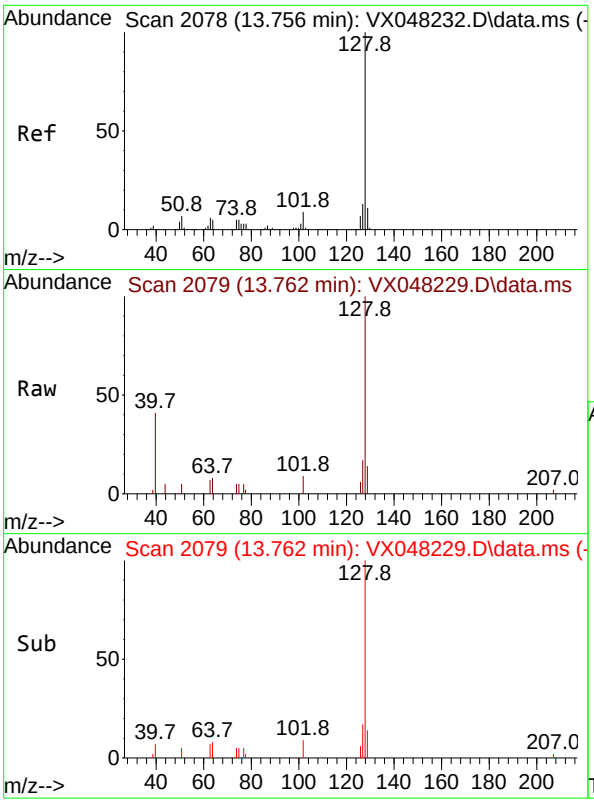


#94
Hexachlorobutadiene
Concen: 2.724 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:225 Resp: 1658

Ion	Ratio	Lower	Upper
225	100		
223	67.8	32.6	97.7
227	67.7	32.5	97.4

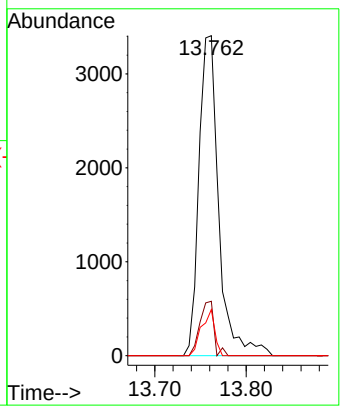




#95
Naphthalene
Concen: 1.230 ug/l
RT: 13.762 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:128 Resp: 511

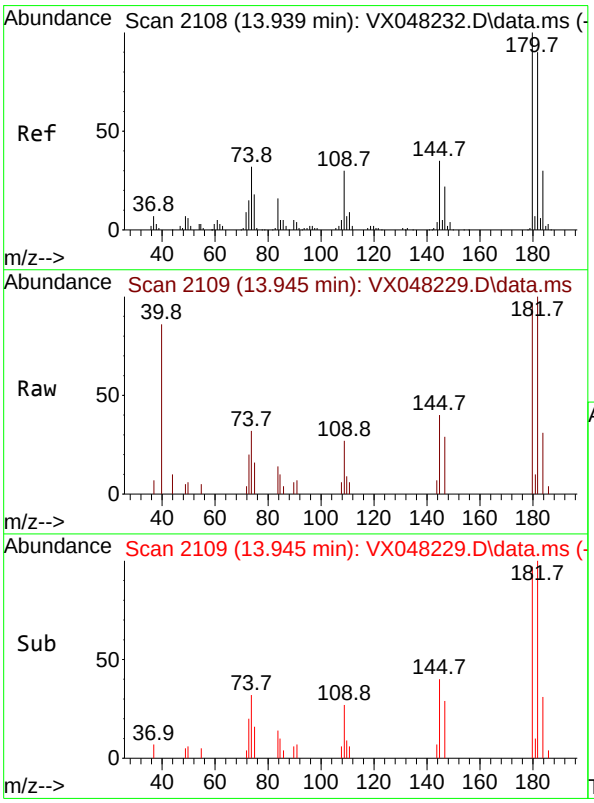
Ion	Ratio	Lower	Upper
128	100		
127	12.1	10.2	15.4
129	9.7	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

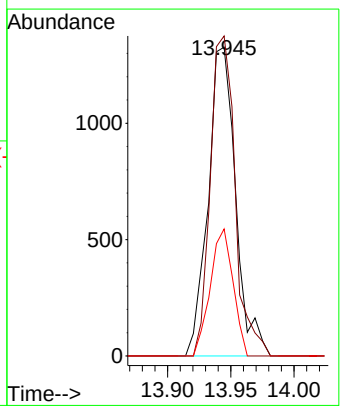
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 1.377 ug/l
RT: 13.945 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:180 Resp: 2006

Ion	Ratio	Lower	Upper
180	100		
182	93.5	46.6	139.7
145	34.1	16.9	50.7



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048231.D
Acq On : 20 Oct 2025 11:40
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 12:37:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 12:35:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	119626	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	195028	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	178975	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	90972	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	33936	18.312	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	36.620%#		
35) Dibromofluoromethane	5.373	113	26897	19.872	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	39.740%#		
50) Toluene-d8	8.635	98	92476	18.965	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	37.920%#		
62) 4-Bromofluorobenzene	11.061	95	34724	19.551	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	39.100%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	24524	19.532	ug/l	98
3) Chloromethane	1.300	50	22401	14.727	ug/l	100
4) Vinyl Chloride	1.380	62	20913	13.048	ug/l	94
5) Bromomethane	1.617	94	15473	14.517	ug/l	100
6) Chloroethane	1.697	64	13249	12.990	ug/l	93
7) Trichlorofluoromethane	1.898	101	41824	16.625	ug/l	98
8) Diethyl Ether	2.136	74	12293	14.325	ug/l	87
9) 1,1,2-Trichlorotrifluo...	2.337	101	25843	18.229	ug/l	96
10) Methyl Iodide	2.459	142	30452	17.934	ug/l	99
11) Tert butyl alcohol	2.947	59	16521	134.353	ug/l	100
12) 1,1-Dichloroethene	2.325	96	26209	18.907	ug/l	92
13) Acrolein	2.239	56	15157	58.651	ug/l	99
14) Allyl chloride	2.666	41	43494	17.443	ug/l	98
15) Acrylonitrile	3.056	53	63931	108.499	ug/l	97
16) Acetone	2.373	43	59884	94.723	ug/l	96
17) Carbon Disulfide	2.520	76	77142	18.087	ug/l	98
18) Methyl Acetate	2.703	43	26374	20.482	ug/l	92
19) Methyl tert-butyl Ether	3.111	73	91349	21.877	ug/l	100
20) Methylene Chloride	2.794	84	31157	20.231	ug/l	88
21) trans-1,2-Dichloroethene	3.093	96	28001	19.525	ug/l	94
22) Diisopropyl ether	3.751	45	90030	18.439	ug/l	87
23) Vinyl Acetate	3.715	43	364009	99.706	ug/l	98
24) 1,1-Dichloroethane	3.605	63	51927	18.746	ug/l	98
25) 2-Butanone	4.544	43	78643	106.774	ug/l	95
26) 2,2-Dichloropropane	4.465	77	46568	19.669	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	33508	19.688	ug/l	98
28) Bromochloromethane	4.891	49	19339	15.146	ug/l	90
29) Tetrahydrofuran	4.995	42	47457	109.718	ug/l	94
30) Chloroform	5.080	83	57780	19.813	ug/l	99
31) Cyclohexane	5.464	56	42796	18.882	ug/l	95
32) 1,1,1-Trichloroethane	5.373	97	51929	21.672	ug/l	98
36) 1,1-Dichloropropene	5.684	75	38270	20.071	ug/l	99
37) Ethyl Acetate	4.702	43	30904	20.280	ug/l #	95
38) Carbon Tetrachloride	5.666	117	46323	21.166	ug/l	98
39) Methylcyclohexane	7.366	83	42776	19.897	ug/l	94
40) Benzene	6.025	78	115488	20.398	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048231.D
Acq On : 20 Oct 2025 11:40
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 12:37:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 12:35:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	18461	22.621	ug/l		97
42) 1,2-Dichloroethane	6.074	62	44176	21.778	ug/l		100
43) Isopropyl Acetate	6.324	43	55317	21.625	ug/l		96
44) Trichloroethene	7.110	130	29108	20.399	ug/l		90
45) 1,2-Dichloropropane	7.421	63	28242	19.709	ug/l		97
46) Dibromomethane	7.568	93	21605	20.955	ug/l		92
47) Bromodichloromethane	7.805	83	46221	20.743	ug/l		100
48) Methyl methacrylate	7.677	41	27751	21.193	ug/l		94
49) 1,4-Dioxane	7.647	88	7620	646.470	ug/l		91
51) 4-Methyl-2-Pentanone	8.555	43	164708	115.713	ug/l		94
52) Toluene	8.702	92	73623	21.635	ug/l		98
53) t-1,3-Dichloropropene	8.964	75	45416	21.756	ug/l		99
54) cis-1,3-Dichloropropene	8.354	75	47130	20.713	ug/l		96
55) 1,1,2-Trichloroethane	9.134	97	27884	21.961	ug/l		98
56) Ethyl methacrylate	9.104	69	41809	24.210	ug/l		93
57) 1,3-Dichloropropane	9.293	76	47896	21.591	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.226	63	104883	118.278	ug/l		96
59) 2-Hexanone	9.415	43	116268	116.777	ug/l		95
60) Dibromochloromethane	9.506	129	37127	23.361	ug/l		98
61) 1,2-Dibromoethane	9.598	107	30639	23.533	ug/l		96
64) Tetrachloroethene	9.256	164	27043	21.550	ug/l		89
65) Chlorobenzene	10.061	112	83004	21.211	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.146	131	30278	21.471	ug/l		98
67) Ethyl Benzene	10.177	91	139895	20.852	ug/l		98
68) m/p-Xylenes	10.287	106	107377	42.962	ug/l		100
69) o-Xylene	10.622	106	50950	21.655	ug/l		98
70) Styrene	10.640	104	88481	21.848	ug/l		99
71) Bromoform	10.780	173	25027	24.168	ug/l	#	100
73) Isopropylbenzene	10.945	105	133034	21.025	ug/l		99
74) N-amyl acetate	10.829	43	48726	20.642	ug/l		96
75) 1,1,2,2-Tetrachloroethane	11.195	83	38748	21.616	ug/l		98
76) 1,2,3-Trichloropropane	11.219	75	29913m	21.533	ug/l		
77) Bromobenzene	11.183	156	33843	21.374	ug/l		95
78) n-propylbenzene	11.286	91	154839	20.180	ug/l		98
79) 2-Chlorotoluene	11.347	91	95156	20.526	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	112057	21.575	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	12001	21.154	ug/l		94
82) 4-Chlorotoluene	11.439	91	113495	20.833	ug/l		98
83) tert-Butylbenzene	11.695	119	112305	21.403	ug/l		97
84) 1,2,4-Trimethylbenzene	11.732	105	111976	21.652	ug/l		100
85) sec-Butylbenzene	11.872	105	134014	20.891	ug/l		100
86) p-Isopropyltoluene	11.994	119	114969	21.263	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	63377	21.403	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	65612	21.375	ug/l		99
89) n-Butylbenzene	12.317	91	102140	20.281	ug/l		99
90) Hexachloroethane	12.518	117	22609	19.811	ug/l		94
91) 1,2-Dichlorobenzene	12.317	146	59345	21.212	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	7983	24.372	ug/l		94
93) 1,2,4-Trichlorobenzene	13.567	180	35465	21.473	ug/l		98
94) Hexachlorobutadiene	13.707	225	14529	22.810	ug/l		98
95) Naphthalene	13.756	128	104803	24.073	ug/l		99
96) 1,2,3-Trichlorobenzene	13.945	180	34276	22.493	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048231.D
Acq On : 20 Oct 2025 11:40
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 12:37:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 12:35:14 2025
Response via : Initial Calibration

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

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

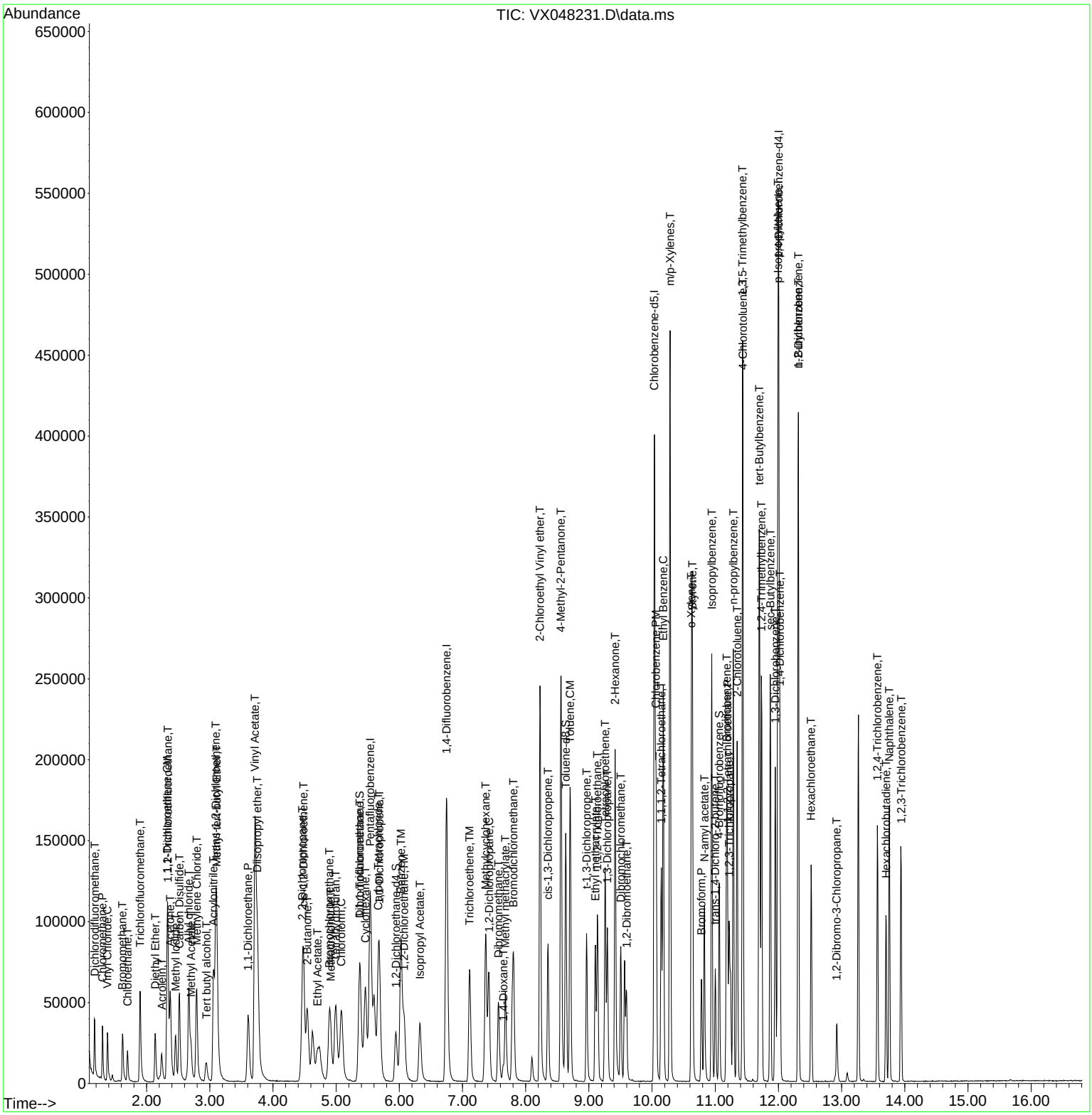
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048231.D
Acq On : 20 Oct 2025 11:40
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

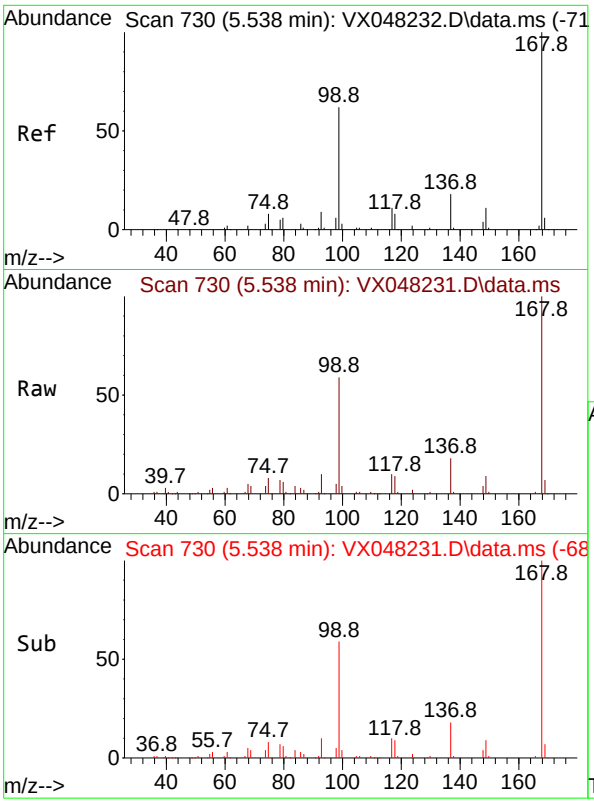
Quant Time: Oct 20 12:37:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 12:35:14 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

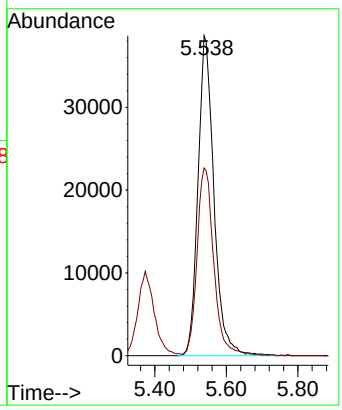




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:168 Resp: 11962

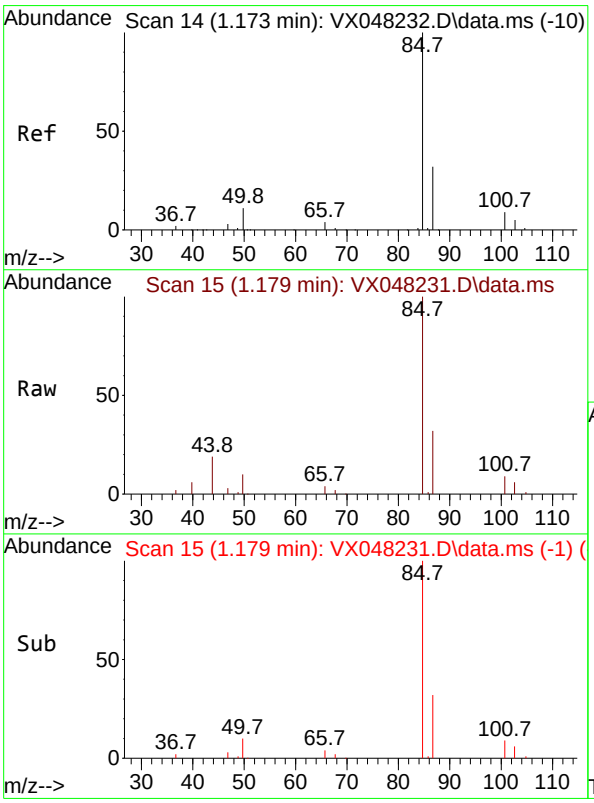
Ion	Ratio	Lower	Upper
168	100		
99	58.7	46.4	69.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

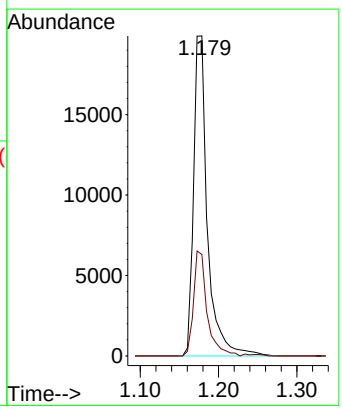
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

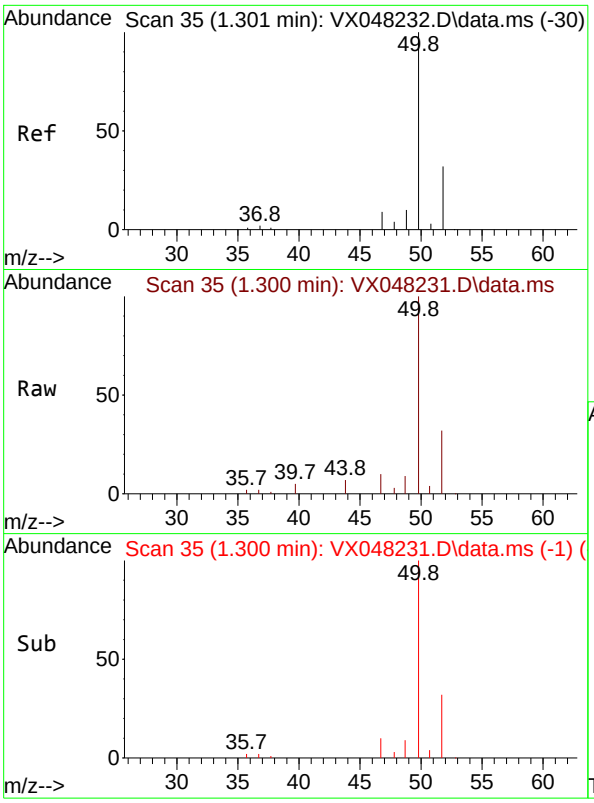


#2
Dichlorodifluoromethane
Concen: 19.532 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 85 Resp: 24524

Ion	Ratio	Lower	Upper
85	100		
87	31.7	15.3	45.9

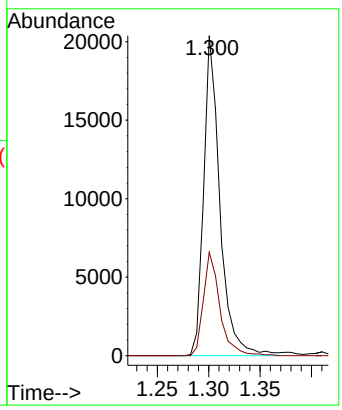




#3
Chloromethane
Concen: 14.727 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 50 Resp: 2240

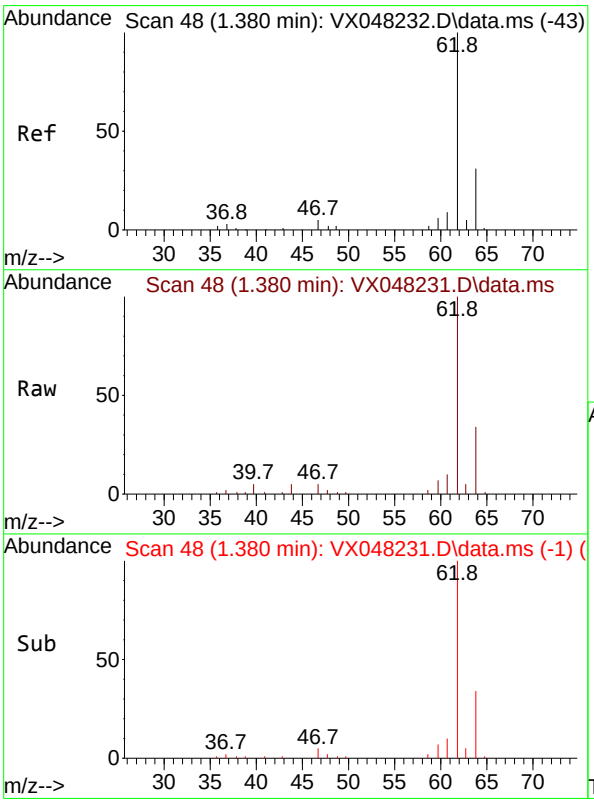
Ion	Ratio	Lower	Upper
50	100		
52	32.3	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

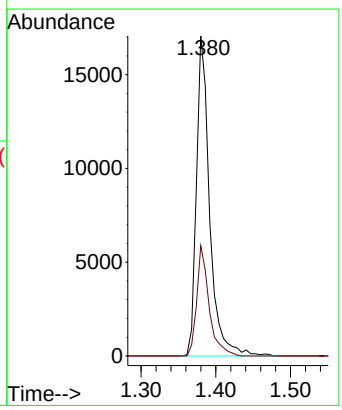
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

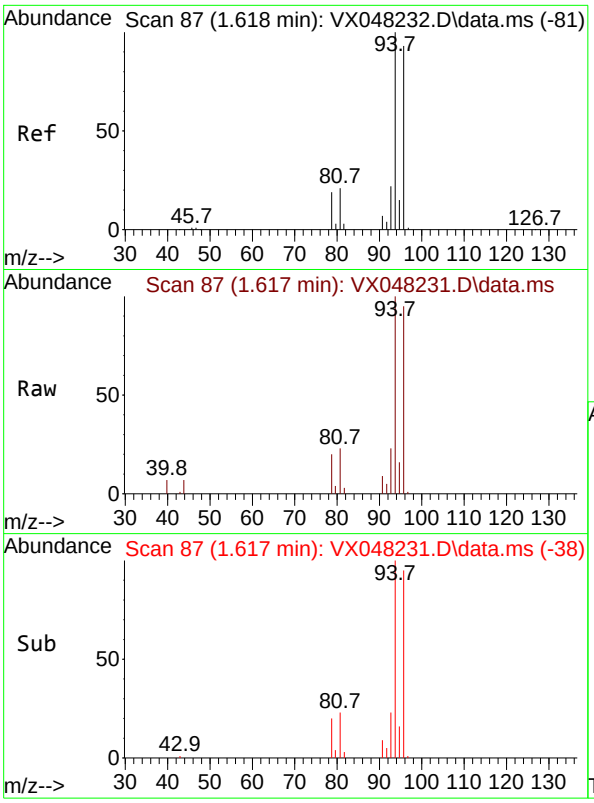


#4
Vinyl Chloride
Concen: 13.048 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 62 Resp: 20913

Ion	Ratio	Lower	Upper
62	100		
64	34.5	25.1	37.7

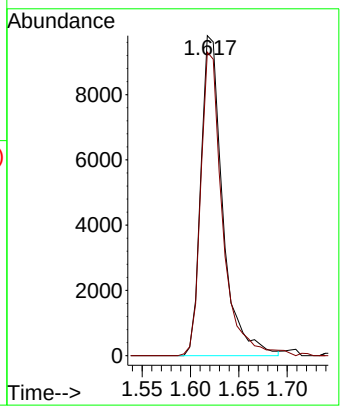




#5
Bromomethane
Concen: 14.517 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 94 Resp: 1547

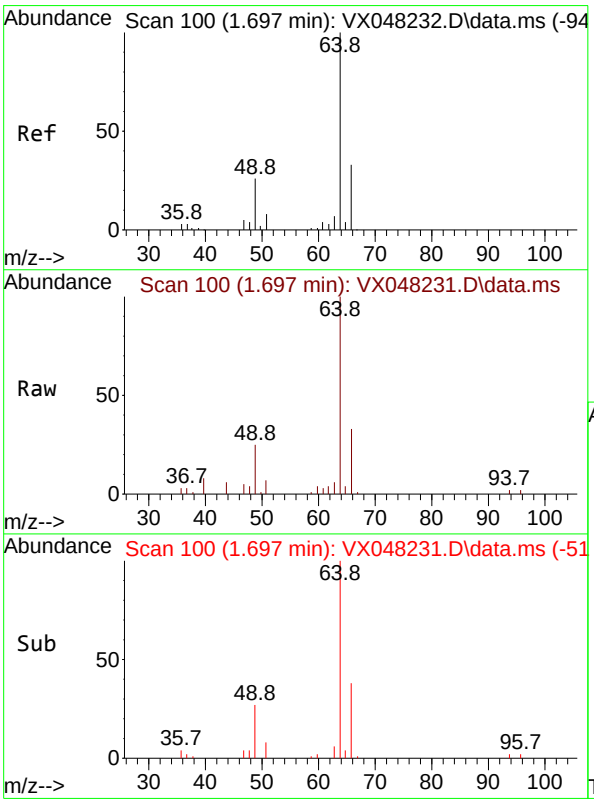
Ion	Ratio	Lower	Upper
94	100		
96	94.8	76.0	114.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

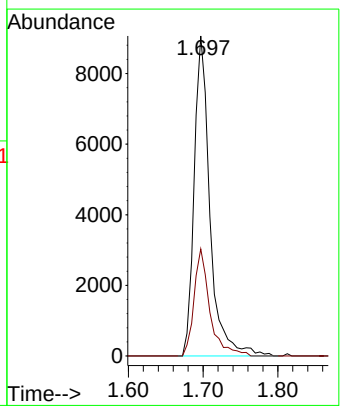
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

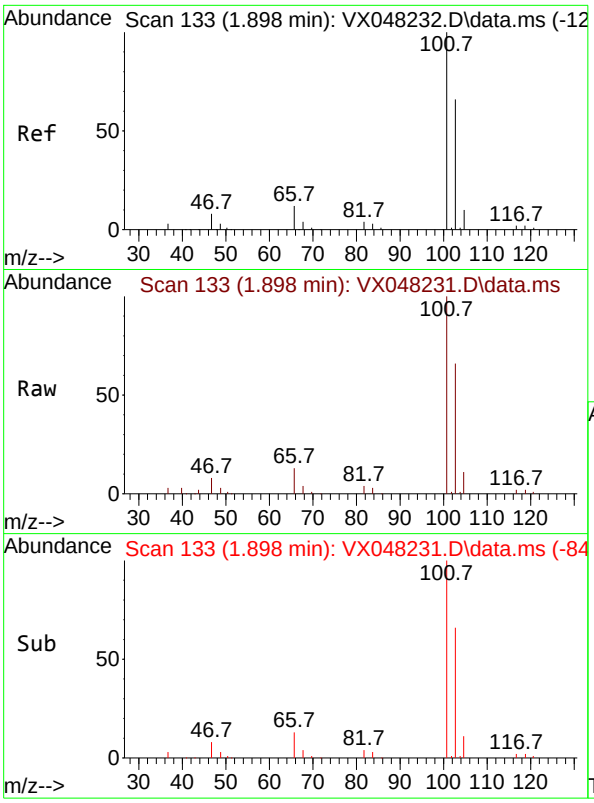


#6
Chloroethane
Concen: 12.990 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 64 Resp: 13249

Ion	Ratio	Lower	Upper
64	100		
66	33.4	23.9	35.9

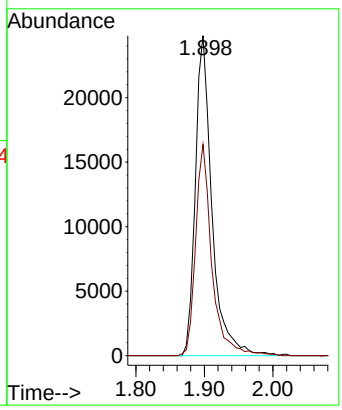




#7
Trichlorofluoromethane
Concen: 16.625 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:101 Resp: 4182

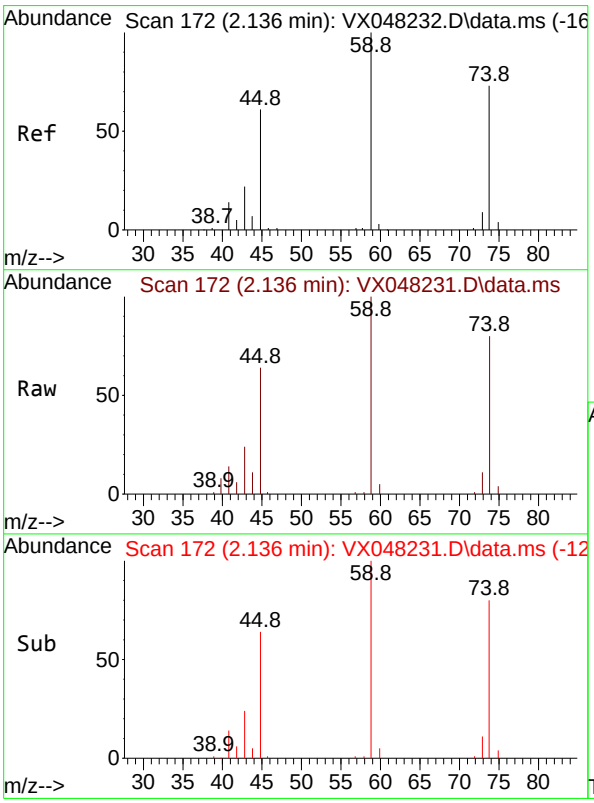
Ion	Ratio	Lower	Upper
101	100		
103	66.0	51.6	77.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

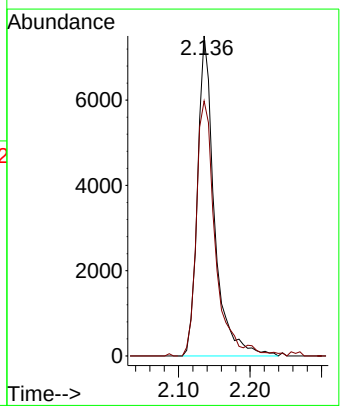
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

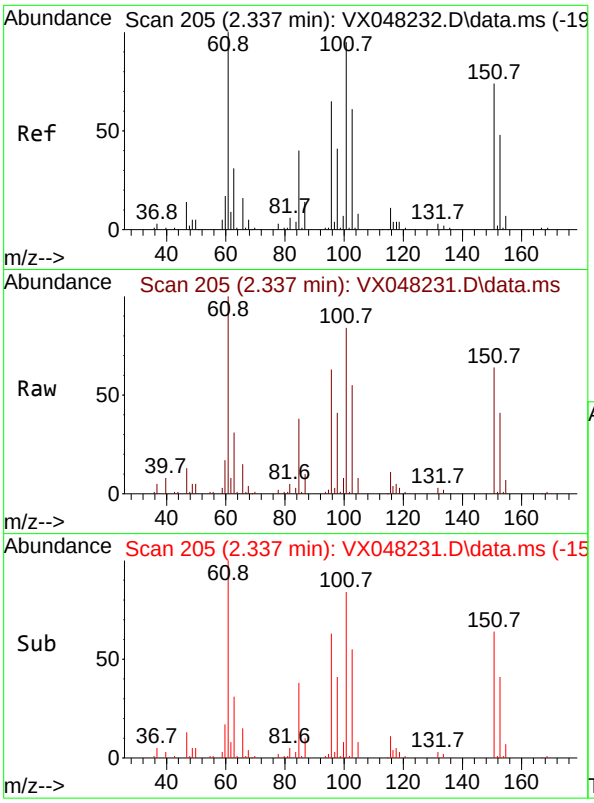


#8
Diethyl Ether
Concen: 14.325 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 74 Resp: 12293

Ion	Ratio	Lower	Upper
74	100		
45	86.6	50.0	149.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.229 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

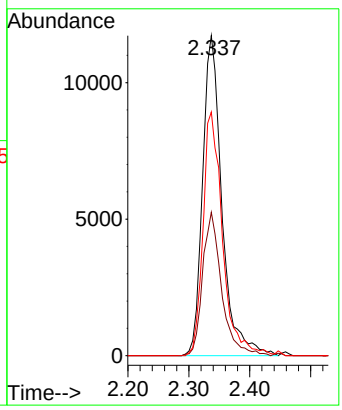
Tgt Ion:101 Resp: 2584

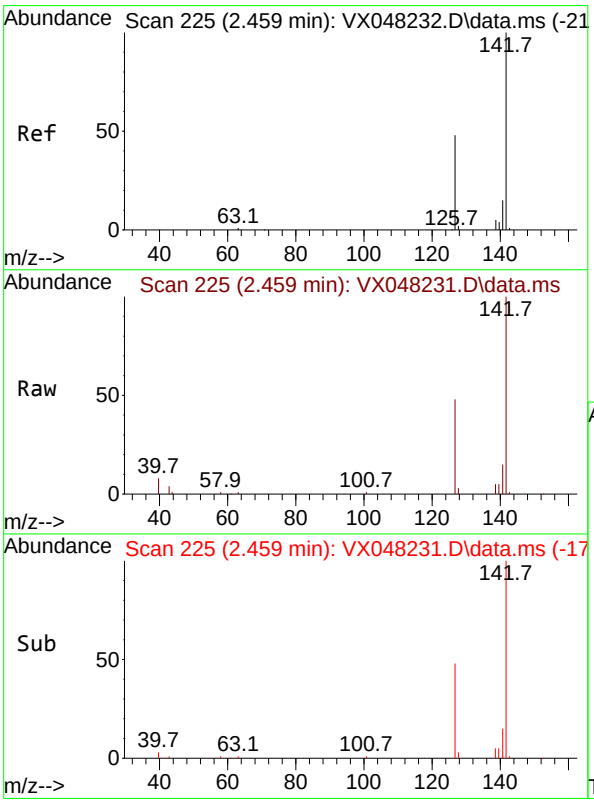
Ion	Ratio	Lower	Upper
101	100		
85	44.1	35.6	53.4
151	76.9	58.0	87.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

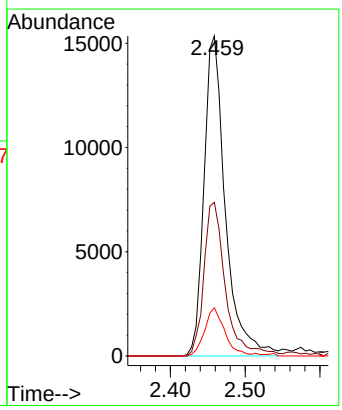


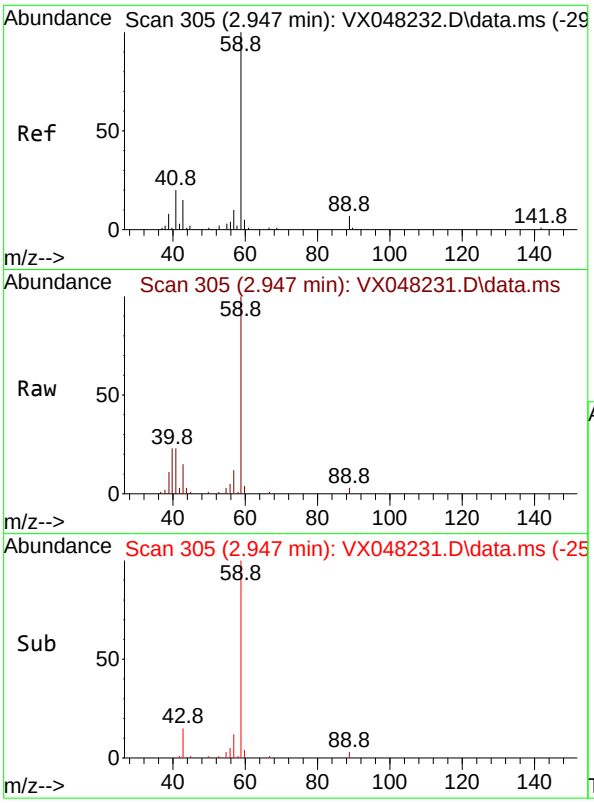


#10
Methyl Iodide
Concen: 17.934 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:142 Resp: 30452

Ion	Ratio	Lower	Upper
142	100		
127	48.4	38.5	57.7
141	14.2	11.6	17.4

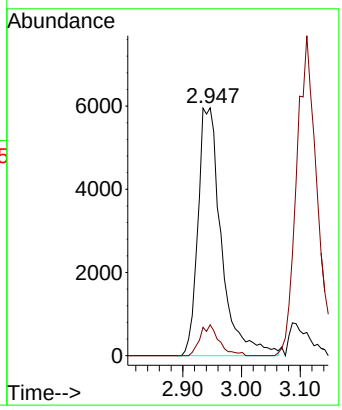




#11
Tert butyl alcohol
Concen: 134.353 ug/l
RT: 2.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 59 Resp: 1652

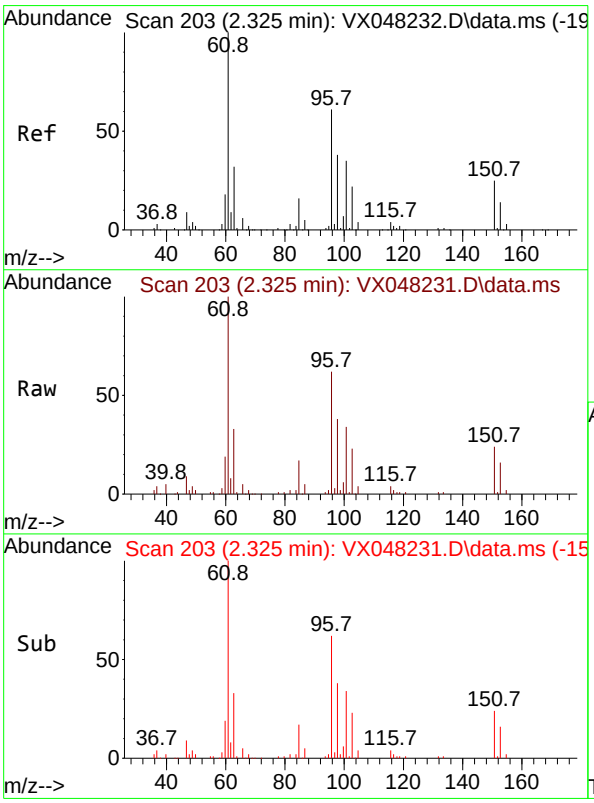
Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.2	12.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

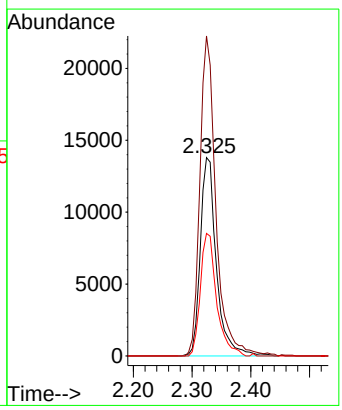
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

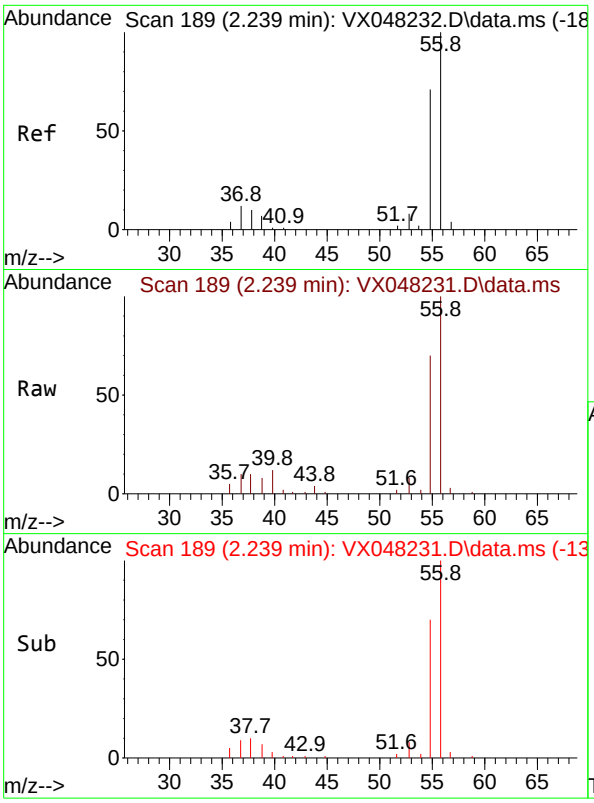


#12
1,1-Dichloroethene
Concen: 18.907 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 96 Resp: 26209

Ion	Ratio	Lower	Upper
96	100		
61	161.3	139.0	208.6
98	61.7	52.4	78.6

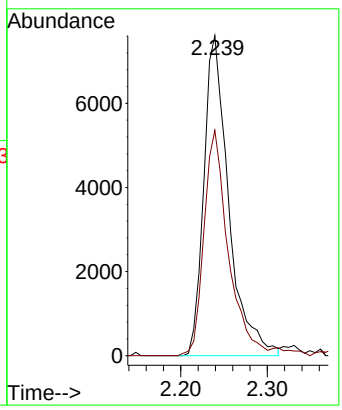




#13
Acrolein
Concen: 58.651 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 56 Resp: 1515

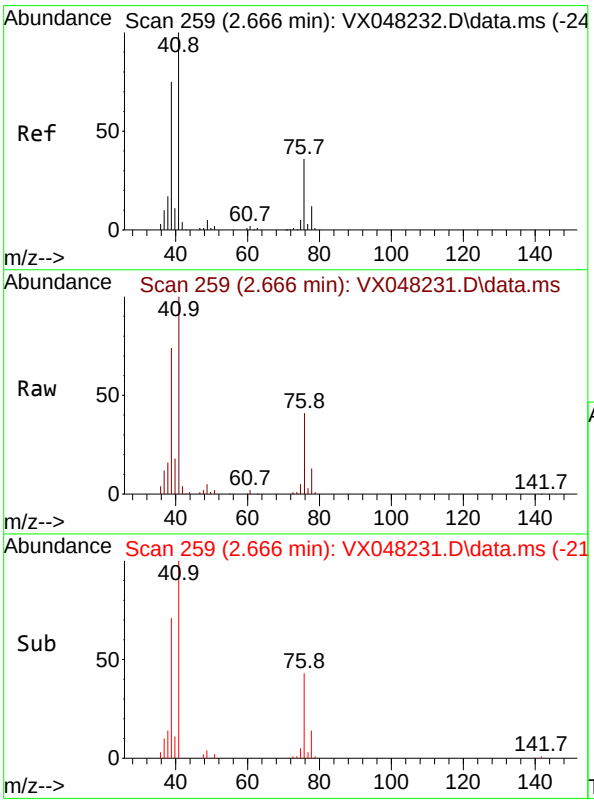
Ion	Ratio	Lower	Upper
56	100		
55	70.8	56.1	84.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

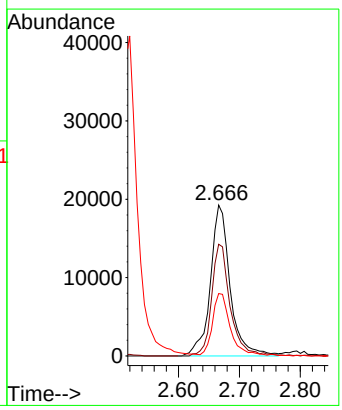
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

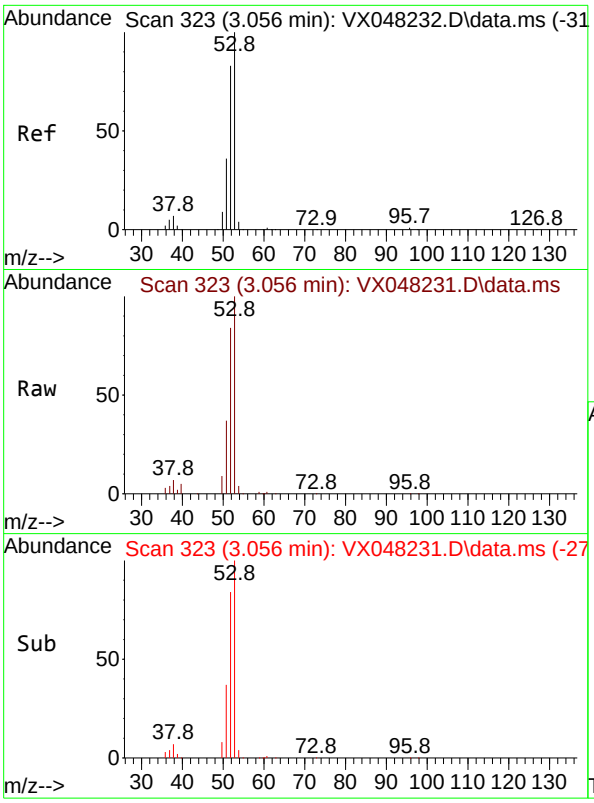


#14
Allyl chloride
Concen: 17.443 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 41 Resp: 43494

Ion	Ratio	Lower	Upper
41	100		
39	69.2	56.0	84.0
76	36.0	27.5	41.3

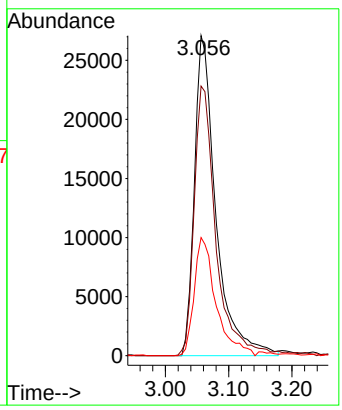




#15
Acrylonitrile
Concen: 108.499 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 53 Resp: 6393

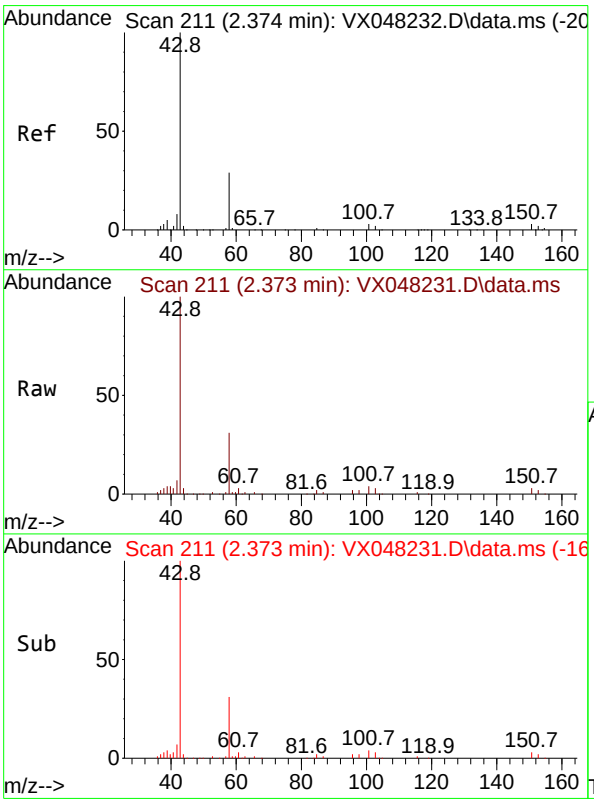
Ion	Ratio	Lower	Upper
53	100		
52	86.2	66.1	99.1
51	37.4	29.0	43.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

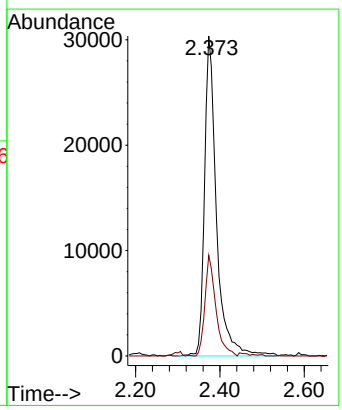
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

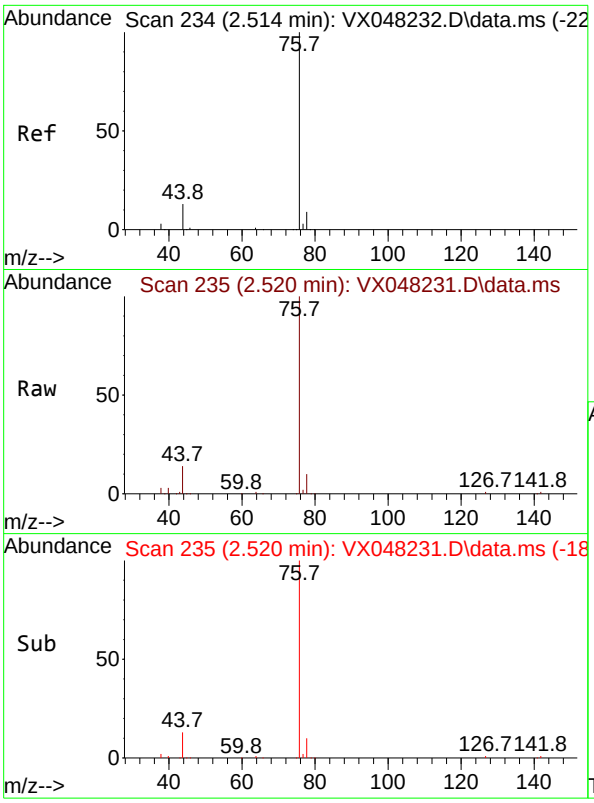


#16
Acetone
Concen: 94.723 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 43 Resp: 59884

Ion	Ratio	Lower	Upper
43	100		
58	31.3	23.4	35.2

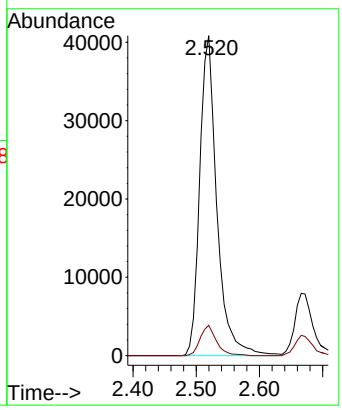




#17
Carbon Disulfide
Concen: 18.087 ug/l
RT: 2.520 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 76 Resp: 7714

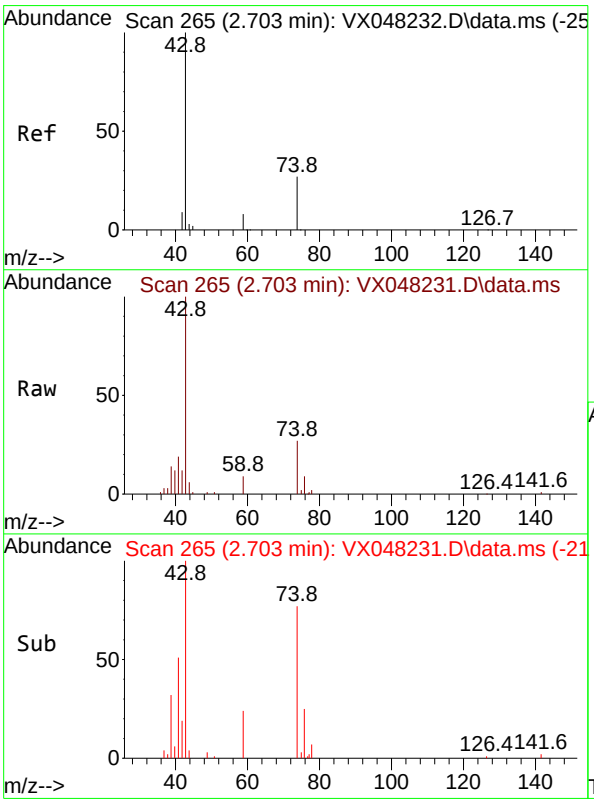
Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.1	10.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

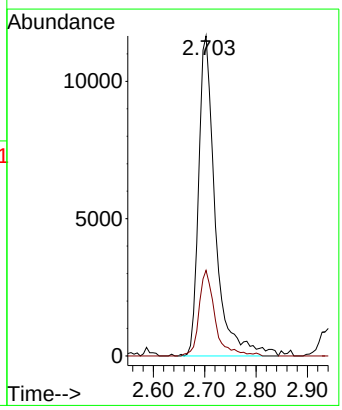
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

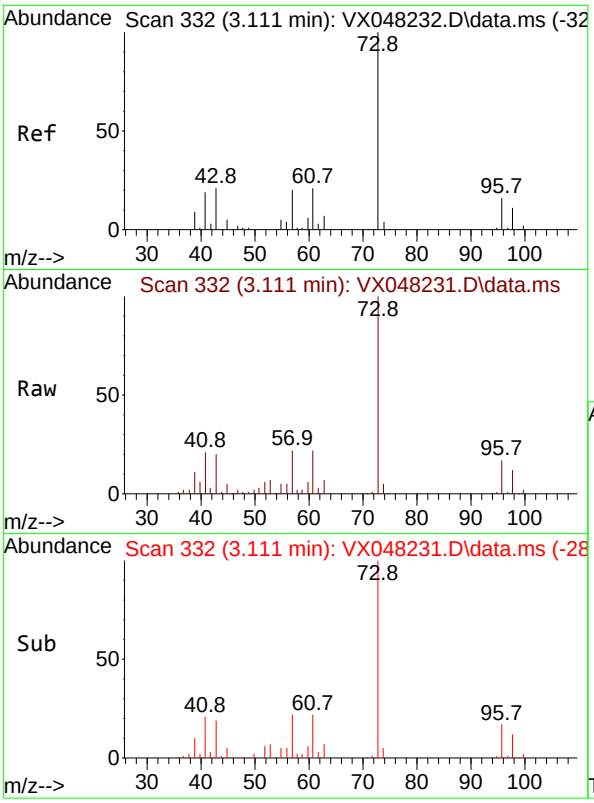


#18
Methyl Acetate
Concen: 20.482 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 43 Resp: 26374

Ion	Ratio	Lower	Upper
43	100		
74	25.7	17.5	26.3

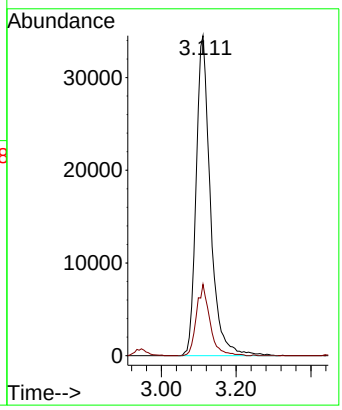




#19
Methyl tert-butyl Ether
Concen: 21.877 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 73 Resp: 9134

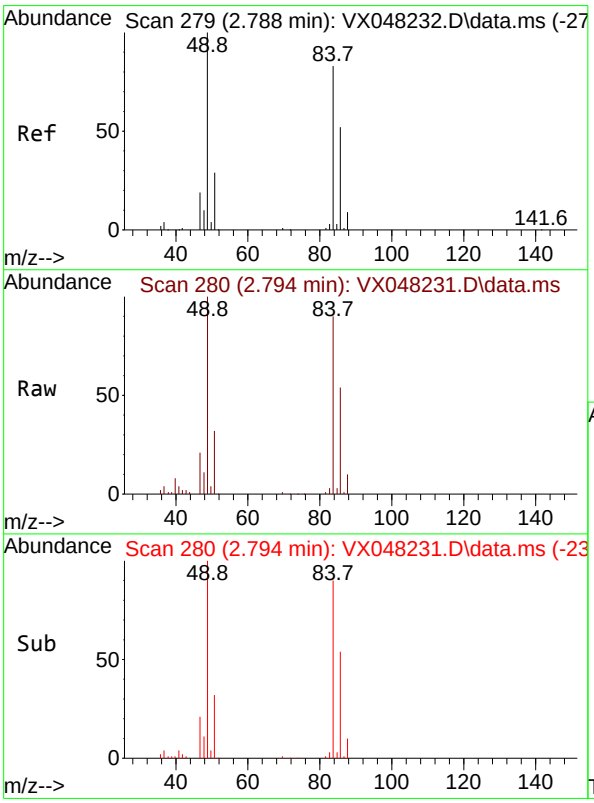
Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

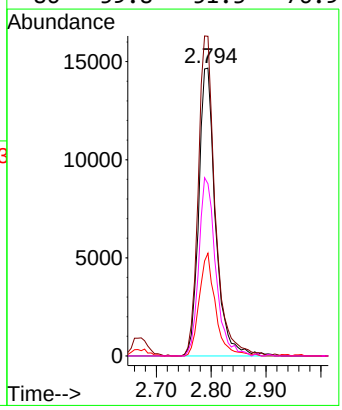
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

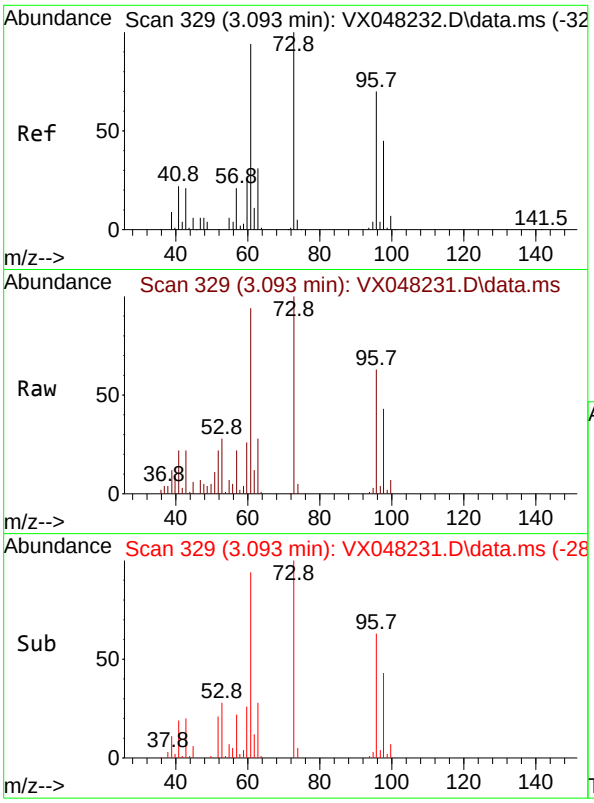


#20
Methylene Chloride
Concen: 20.231 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 84 Resp: 31157

Ion	Ratio	Lower	Upper
84	100		
49	111.1	104.1	156.1
51	35.7	31.3	46.9
86	59.8	51.3	76.9





#21
trans-1,2-Dichloroethene
Concen: 19.525 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

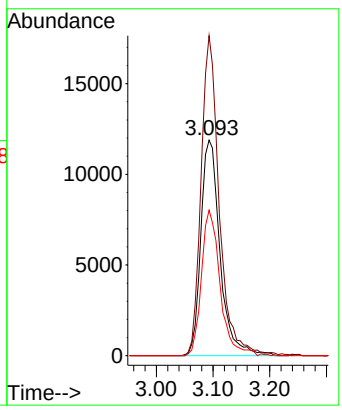
Tgt Ion: 96 Resp: 2800

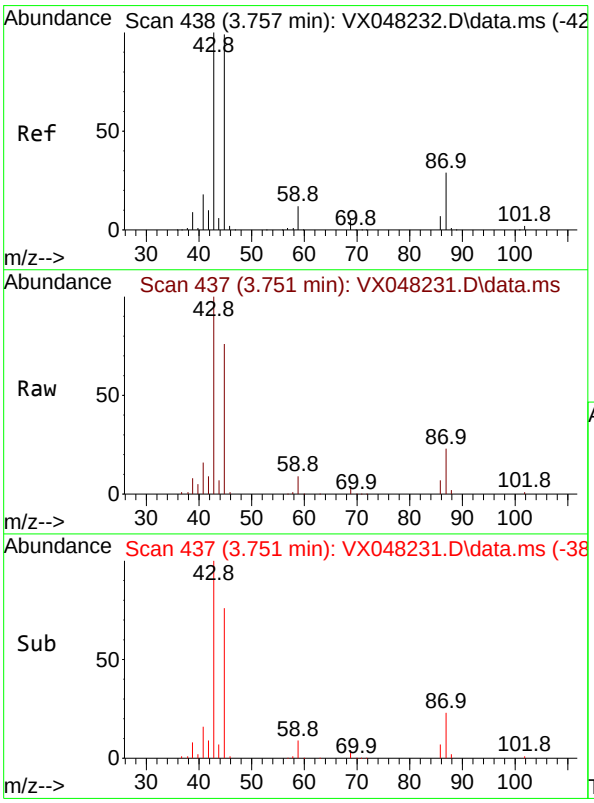
Ion	Ratio	Lower	Upper
96	100		
61	148.5	111.9	167.9
98	67.5	51.2	76.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

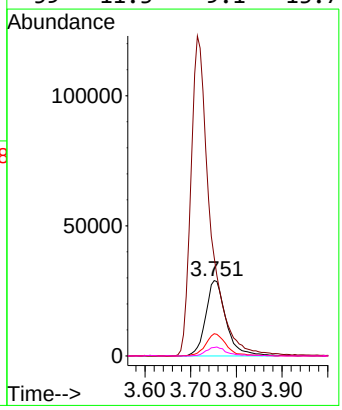


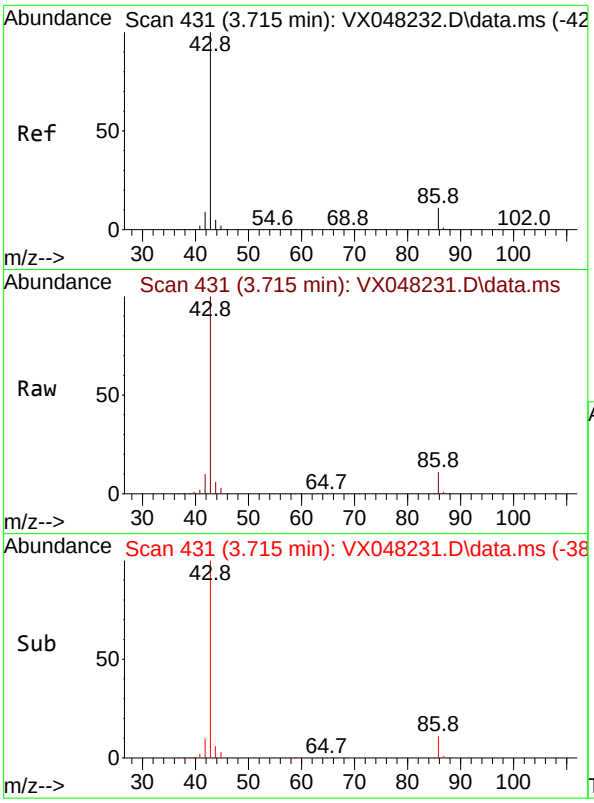


#22
Diisopropyl ether
Concen: 18.439 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 45 Resp: 90030

Ion	Ratio	Lower	Upper
45	100		
43	129.3	89.8	134.8
87	29.6	20.6	31.0
59	11.3	9.1	13.7





#23
Vinyl Acetate
Concen: 99.706 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

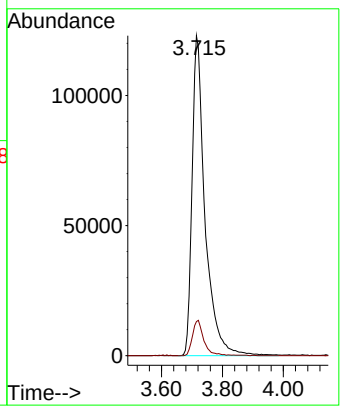
Tgt Ion: 43 Resp: 364009

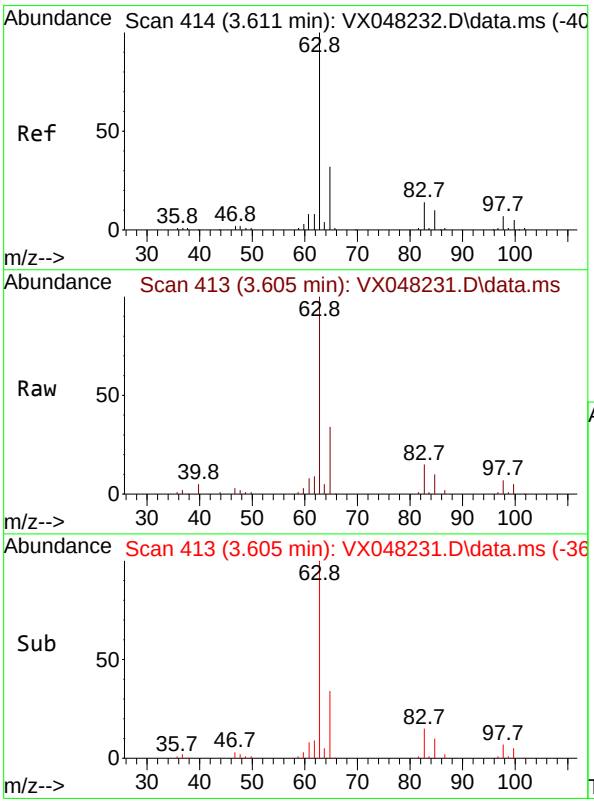
Ion	Ratio	Lower	Upper
43	100		
86	10.6	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

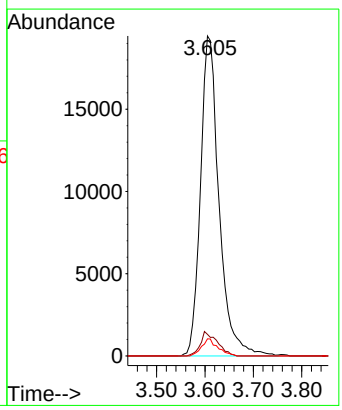


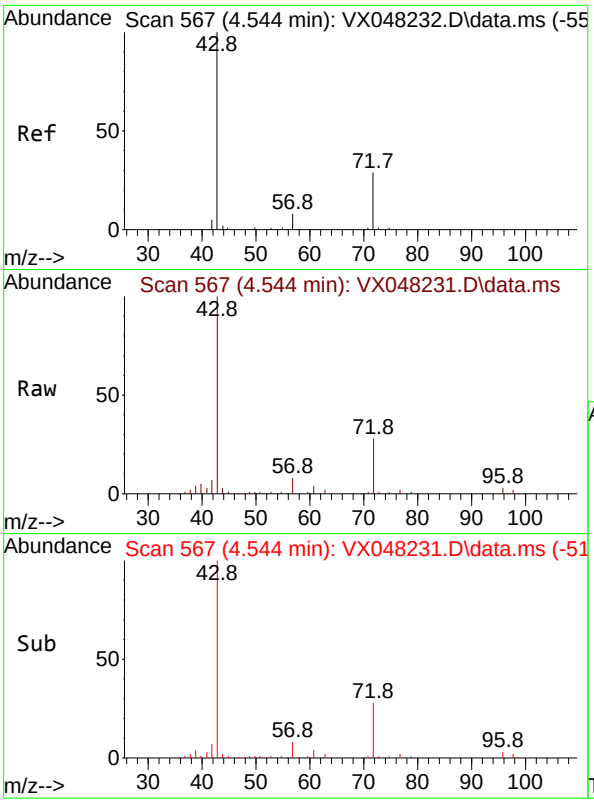


#24
1,1-Dichloroethane
Concen: 18.746 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 63 Resp: 51927

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.5	10.6
100	5.4	2.1	6.3





#25
2-Butanone
Concen: 106.774 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

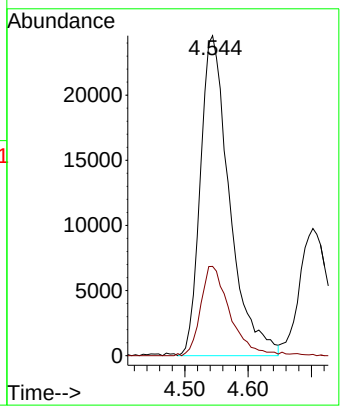
Tgt Ion: 43 Resp: 7864

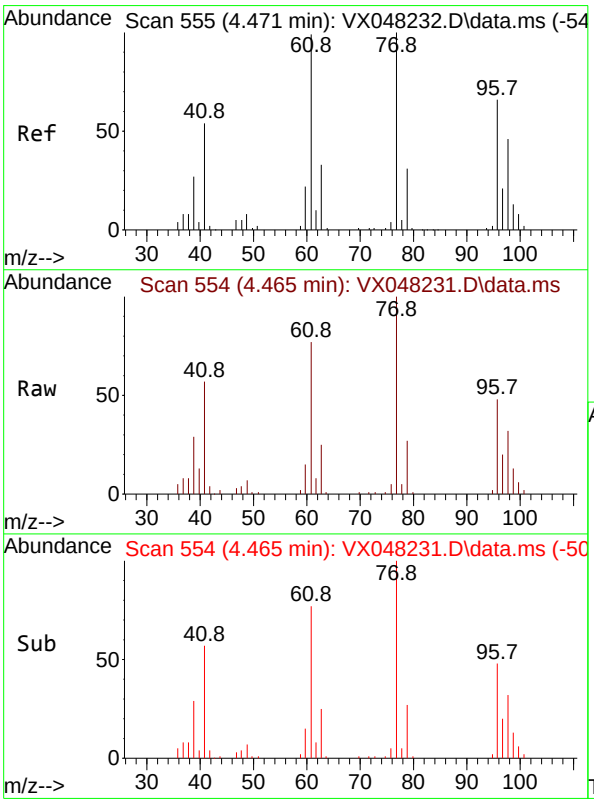
Ion	Ratio	Lower	Upper
43	100		
72	27.6	19.9	29.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

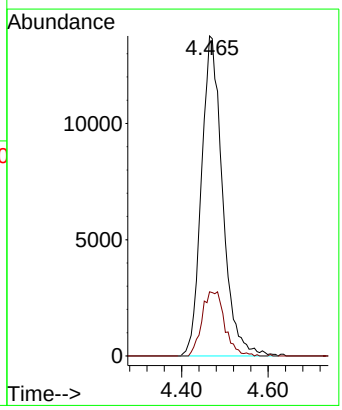


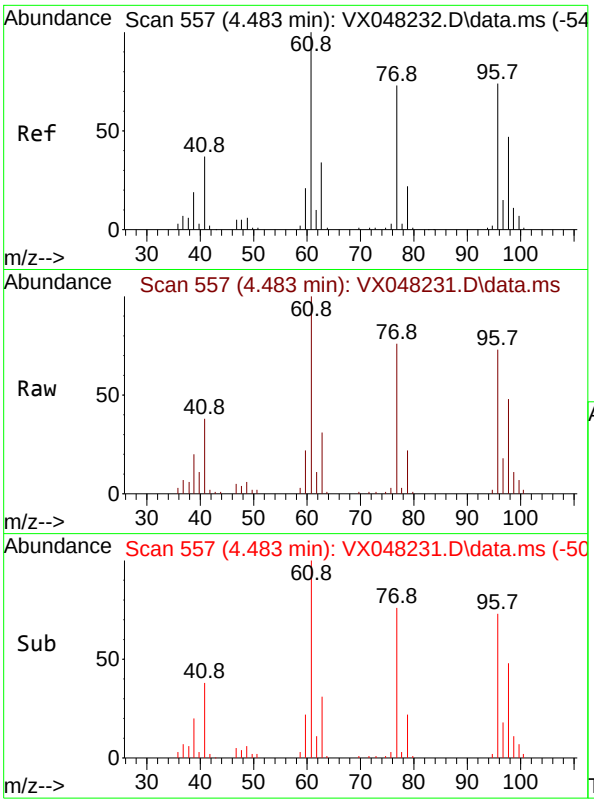


#26
2,2-Dichloropropane
Concen: 19.669 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 77 Resp: 46568

Ion	Ratio	Lower	Upper
77	100		
97	21.7	11.1	33.3





#27
cis-1,2-Dichloroethene
Concen: 19.688 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

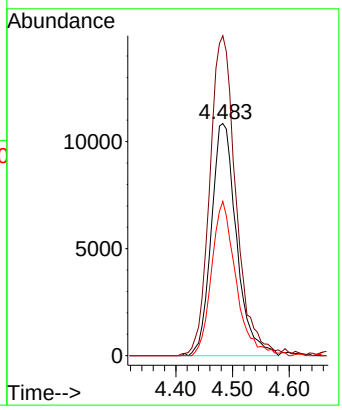
Tgt Ion: 96 Resp: 3350

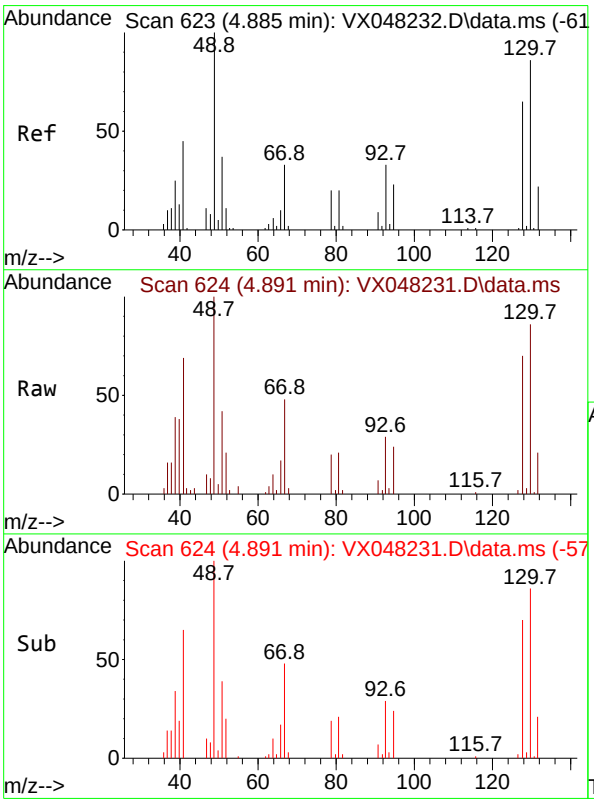
Ion	Ratio	Lower	Upper
96	100		
61	143.9	0.0	294.2
98	64.3	0.0	128.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

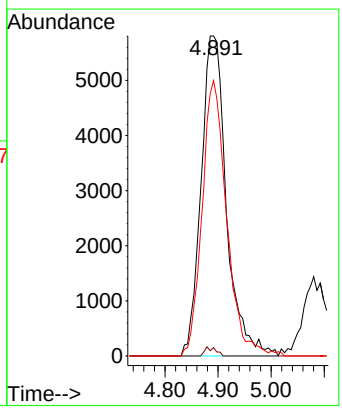


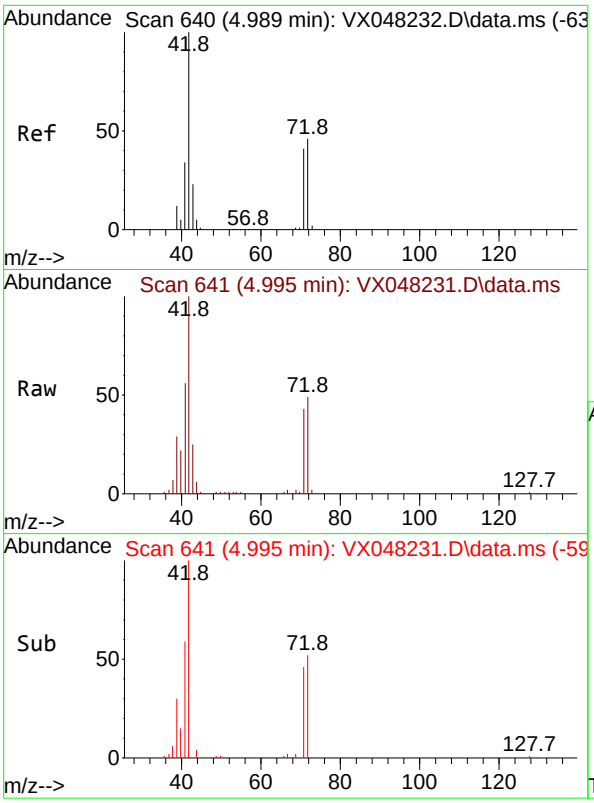


#28
Bromochloromethane
Concen: 15.146 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 49 Resp: 19339

Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	4.4
130	82.7	59.3	88.9





#29
Tetrahydrofuran
Concen: 109.718 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

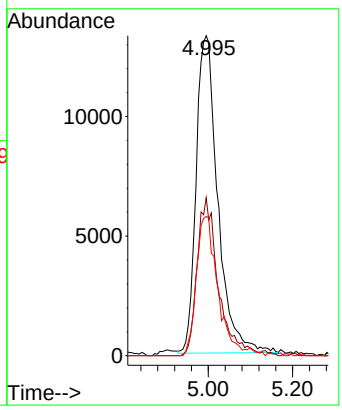
Tgt Ion: 42 Resp: 4745

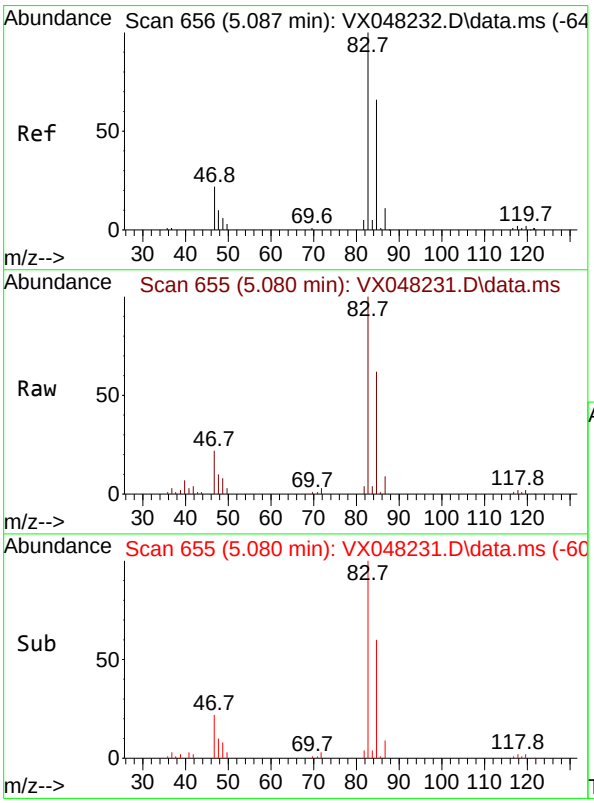
Ion	Ratio	Lower	Upper
42	100		
72	48.5	35.3	52.9
71	43.2	32.2	48.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

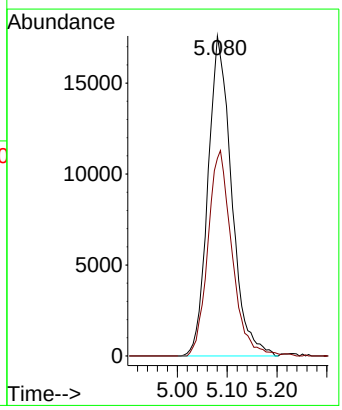


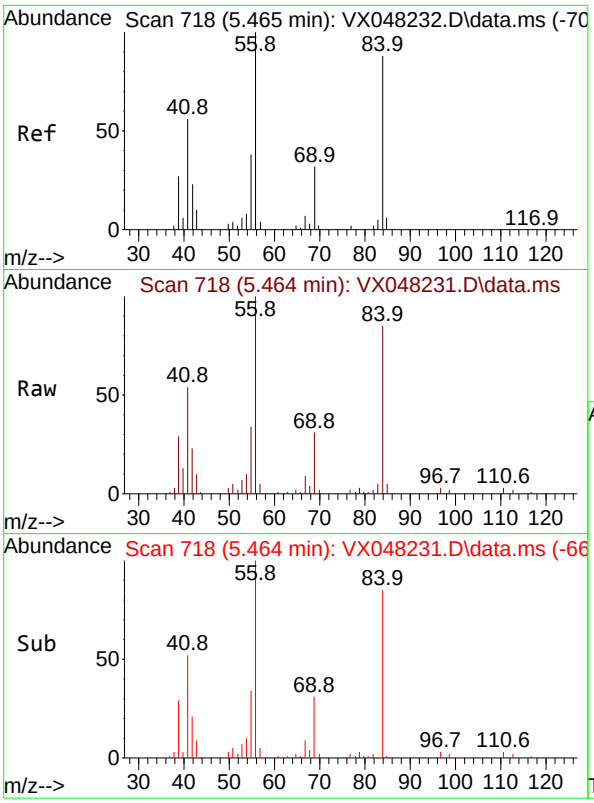


#30
Chloroform
Concen: 19.813 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 83 Resp: 57780

Ion	Ratio	Lower	Upper
83	100		
85	63.1	50.1	75.1





#31
Cyclohexane
Concen: 18.882 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

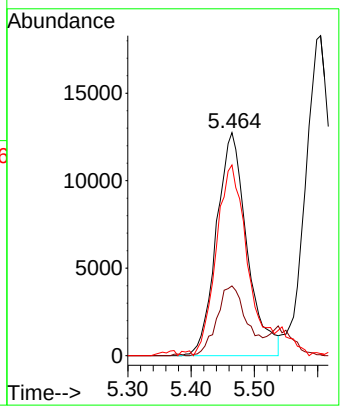
Tgt Ion: 56 Resp: 4279

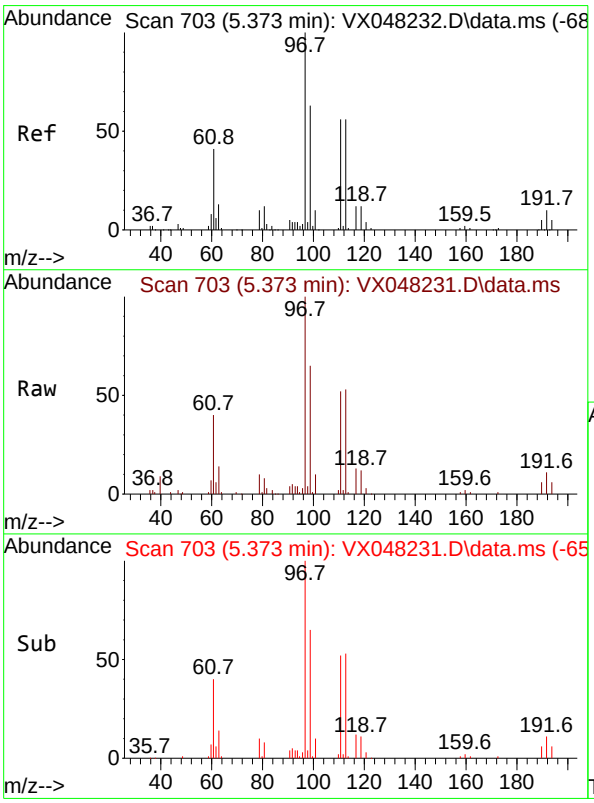
Ion	Ratio	Lower	Upper
56	100		
69	30.6	23.0	34.6
84	85.5	64.6	97.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

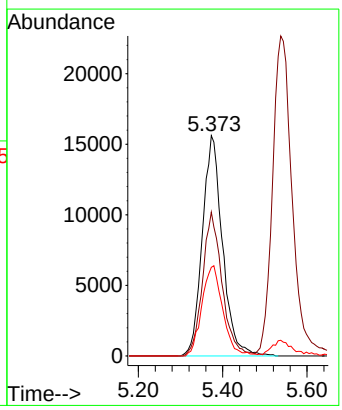


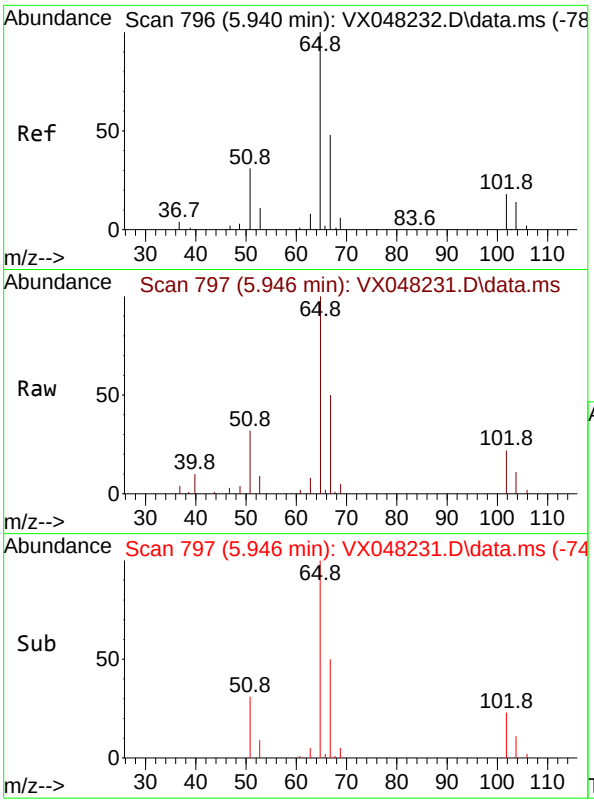


#32
1,1,1-Trichloroethane
Concen: 21.672 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 97 Resp: 51929

Ion	Ratio	Lower	Upper
97	100		
99	63.0	51.7	77.5
61	42.4	34.8	52.2

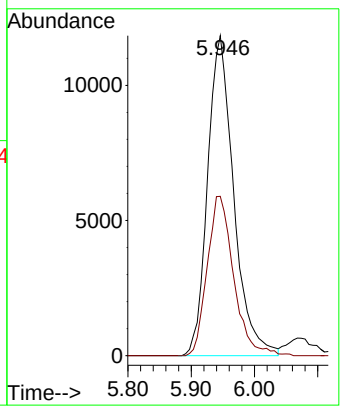




#33
1,2-Dichloroethane-d4
Concen: 18.312 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 65 Resp: 3393

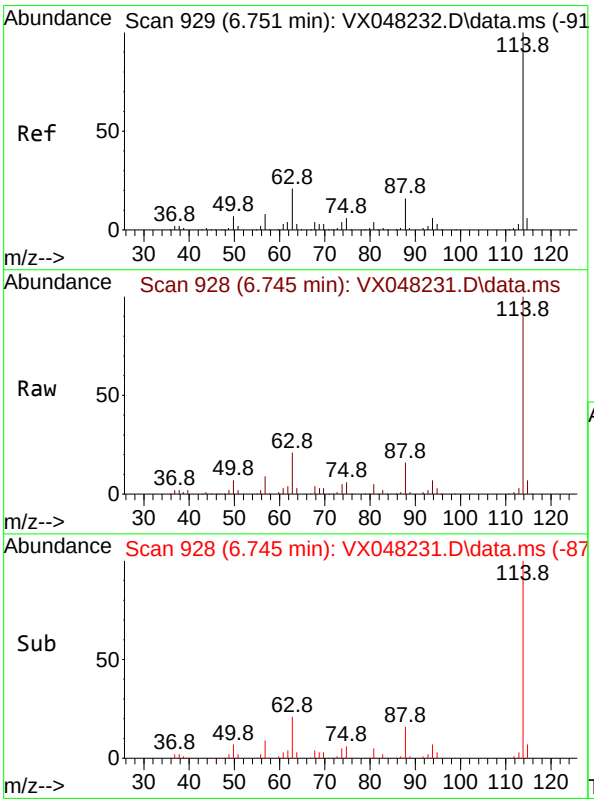
Ion	Ratio	Lower	Upper
65	100		
67	50.6	0.0	105.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

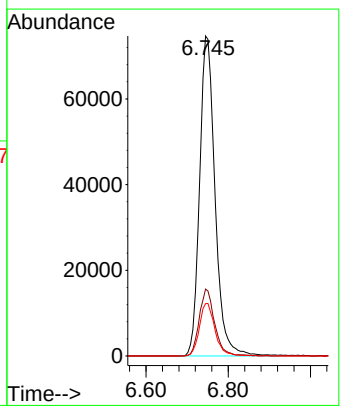
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

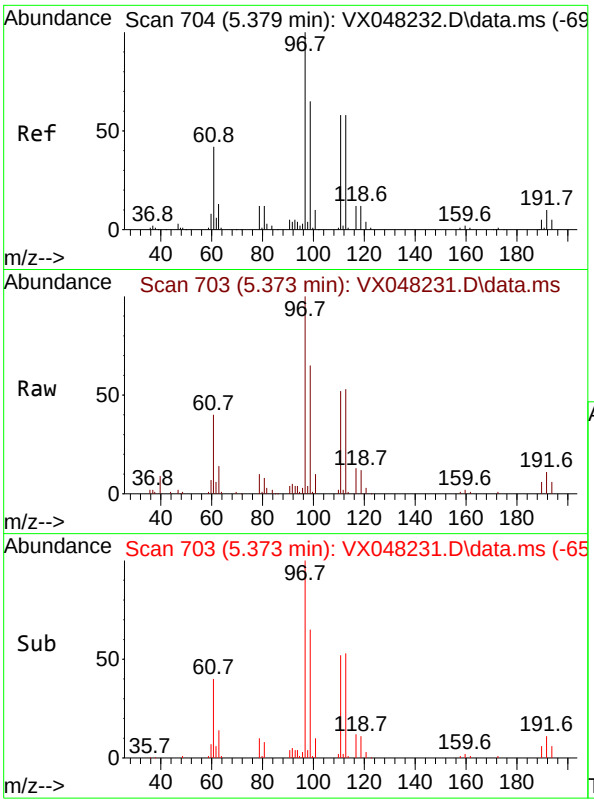


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:114 Resp: 195028

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	43.2
88	16.4	0.0	33.6

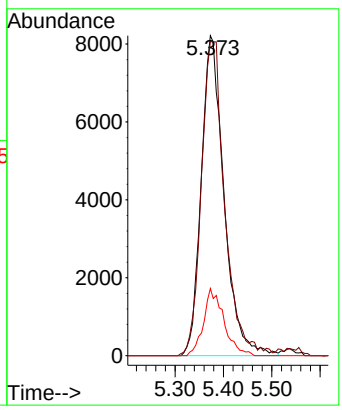




#35
Dibromofluoromethane
Concen: 19.872 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:113 Resp: 2689

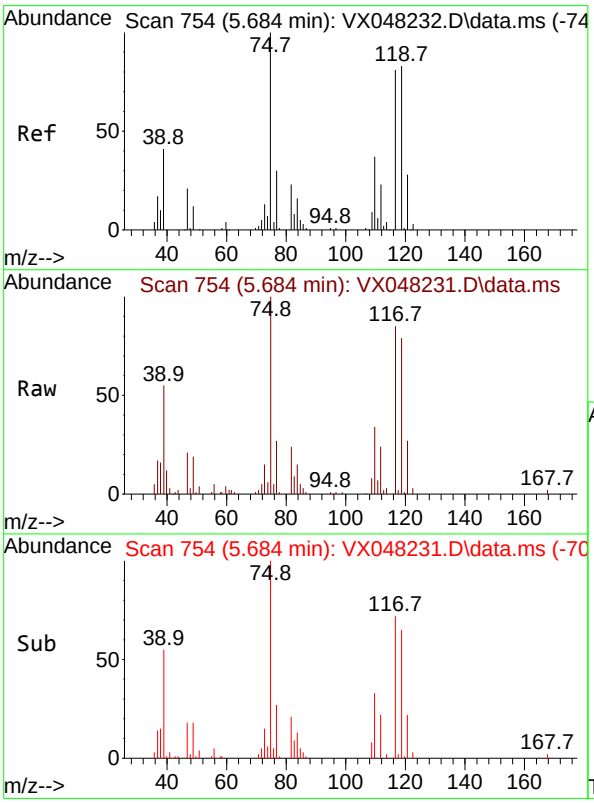
Ion	Ratio	Lower	Upper
113	100		
111	100.7	82.2	123.4
192	18.8	15.1	22.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

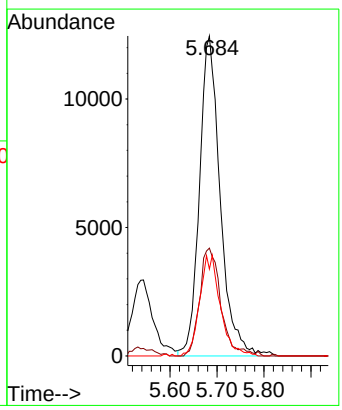
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

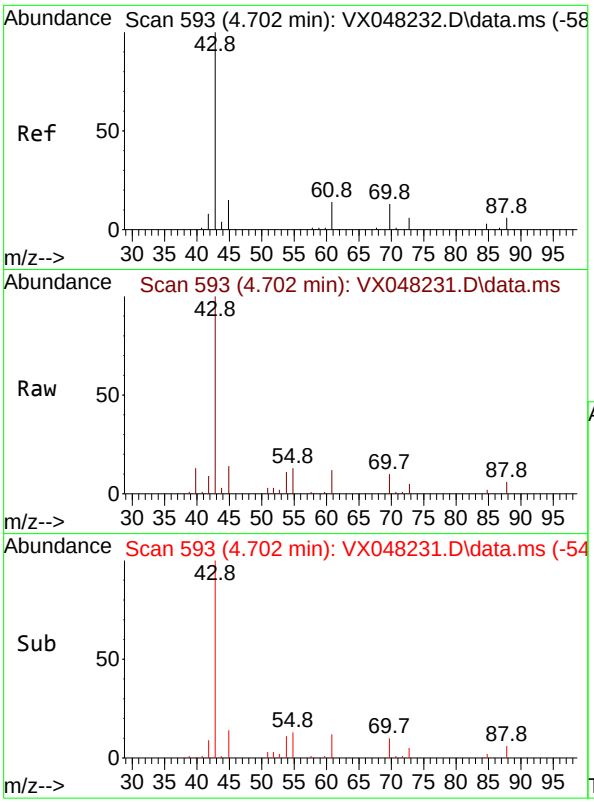


#36
1,1-Dichloropropene
Concen: 20.071 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 75 Resp: 38270

Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.7	53.1
77	31.1	24.3	36.5

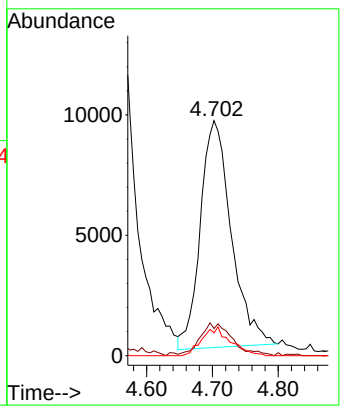




#37
Ethyl Acetate
Concen: 20.280 ug/l
RT: 4.702 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 43 Resp: 3090

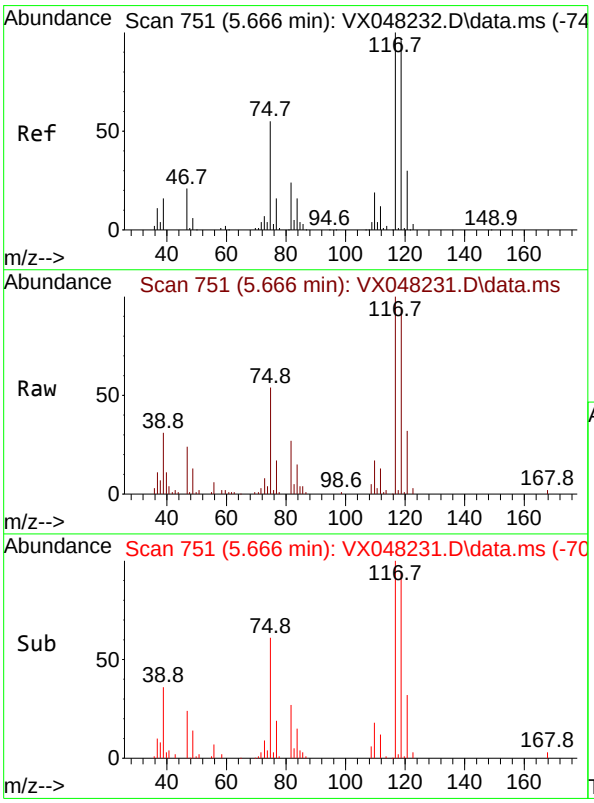
Ion	Ratio	Lower	Upper
43	100		
61	14.8	10.6	15.8
70	11.7	7.8	11.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

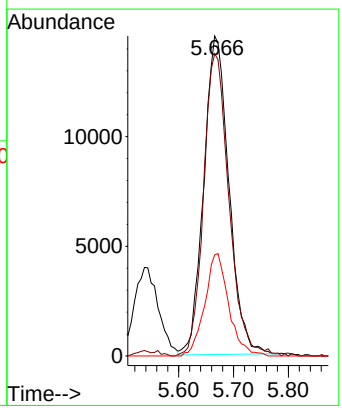
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

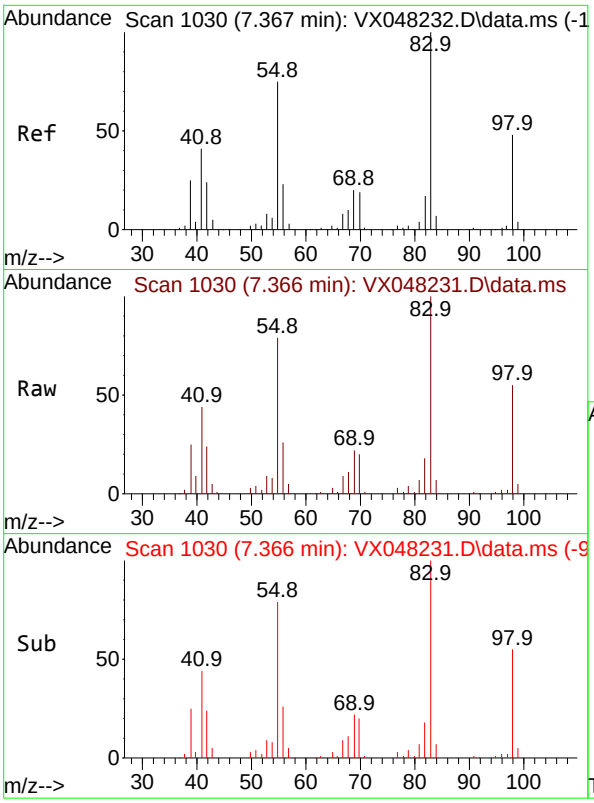


#38
Carbon Tetrachloride
Concen: 21.166 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:117 Resp: 46323

Ion	Ratio	Lower	Upper
117	100		
119	94.7	77.2	115.8
121	31.8	24.8	37.2

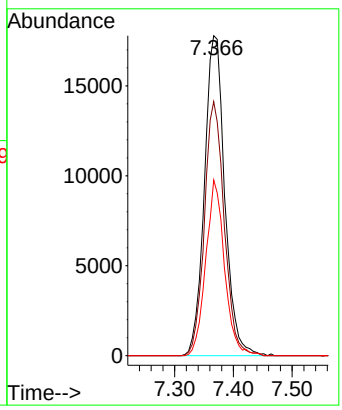




#39
Methylcyclohexane
Concen: 19.897 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 83 Resp: 4277

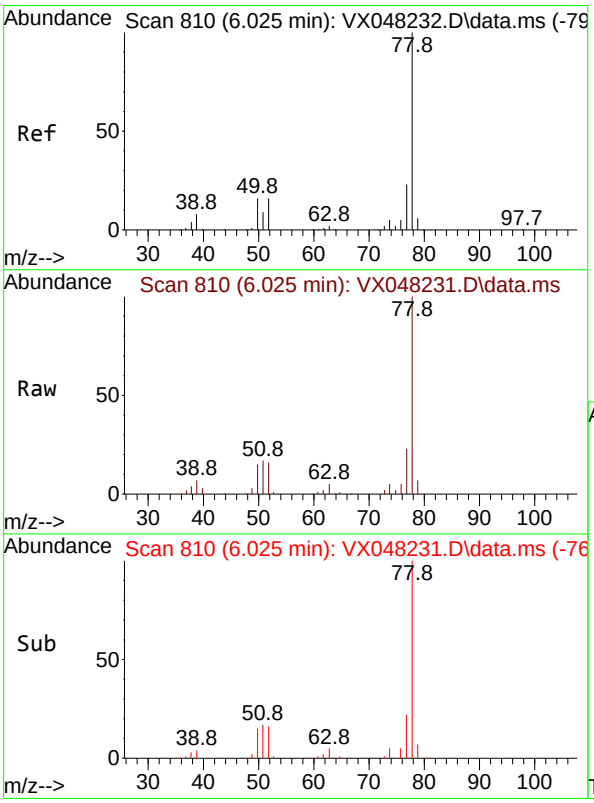
Ion	Ratio	Lower	Upper
83	100		
55	79.4	66.2	99.2
98	54.9	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

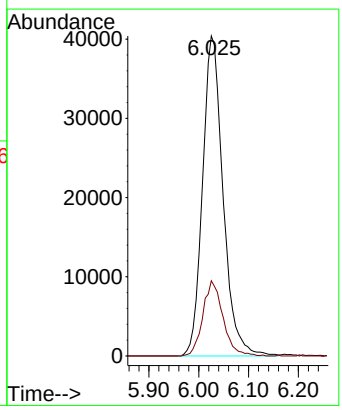
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

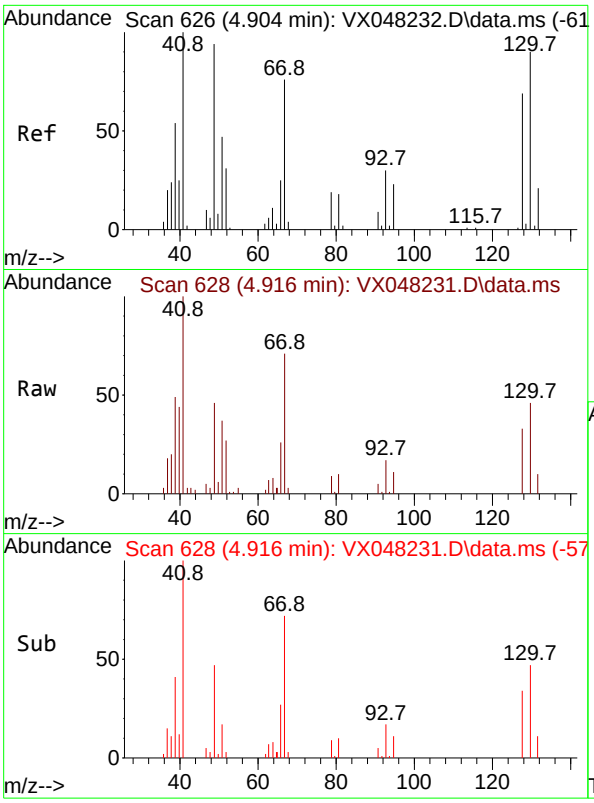


#40
Benzene
Concen: 20.398 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 78 Resp: 115488

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.3	28.9

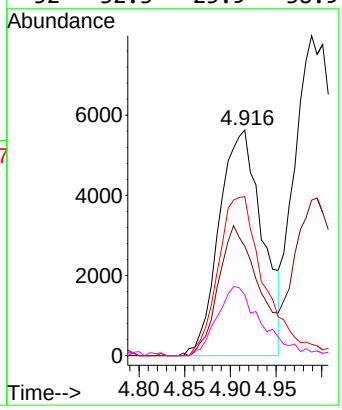




#41
Methacrylonitrile
Concen: 22.621 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.012 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 41 Resp: 1846

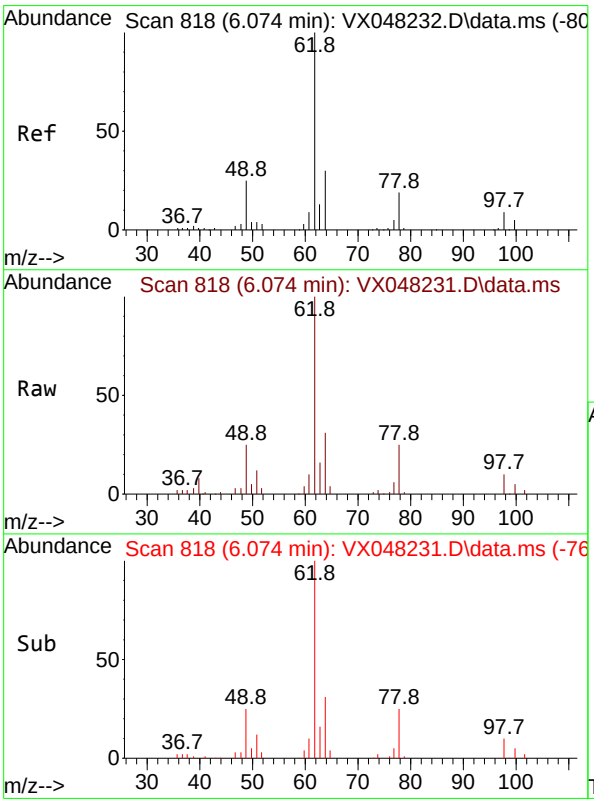
Ion	Ratio	Lower	Upper
41	100		
39	53.4	44.0	66.0
67	76.9	58.7	88.1
52	32.3	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

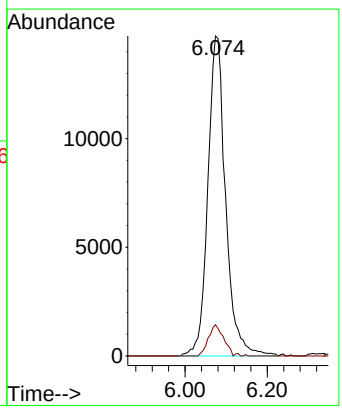
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

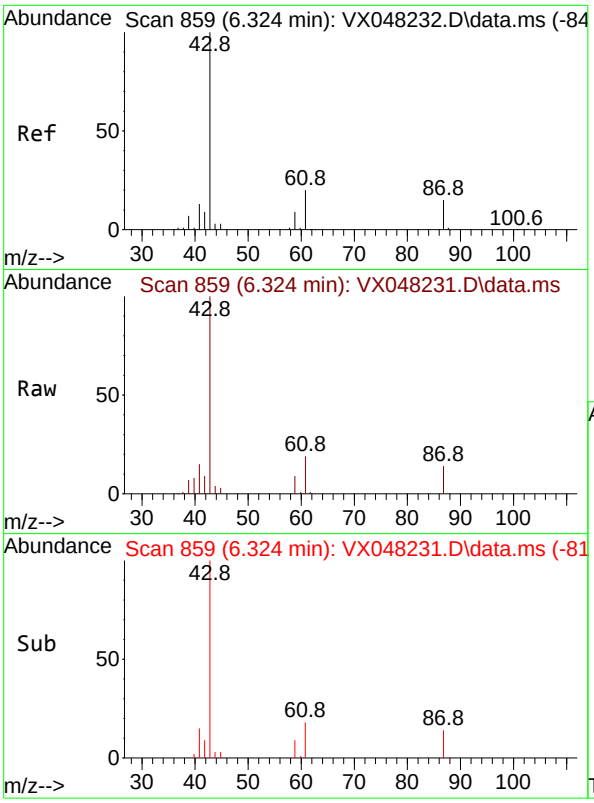


#42
1,2-Dichloroethane
Concen: 21.778 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 62 Resp: 44176

Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	17.2

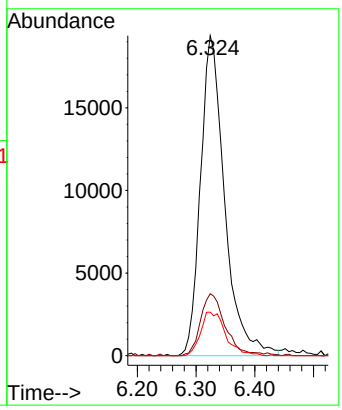




#43
Isopropyl Acetate
Concen: 21.625 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 43 Resp: 5531

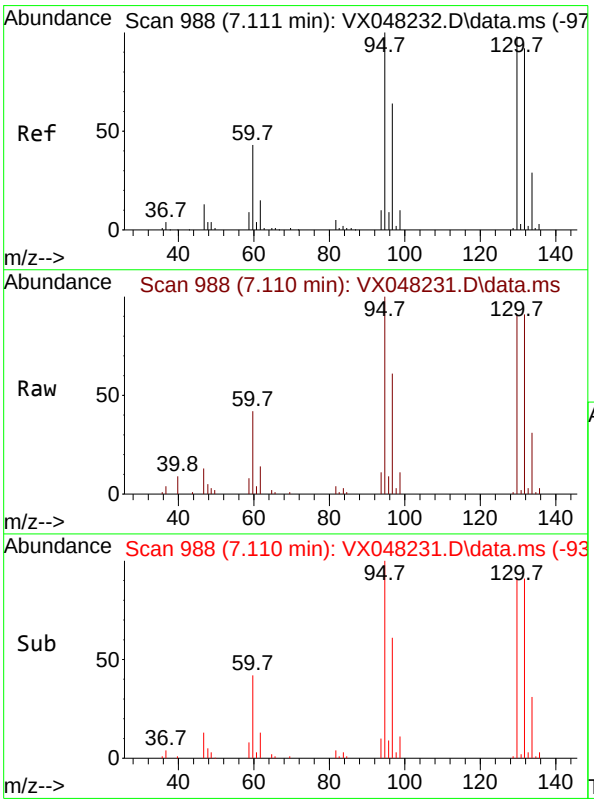
Ion	Ratio	Lower	Upper
43	100		
61	19.9	14.9	22.3
87	14.1	9.4	14.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

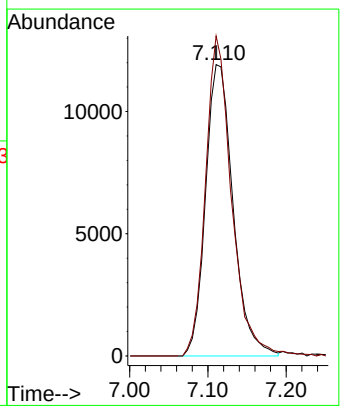
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

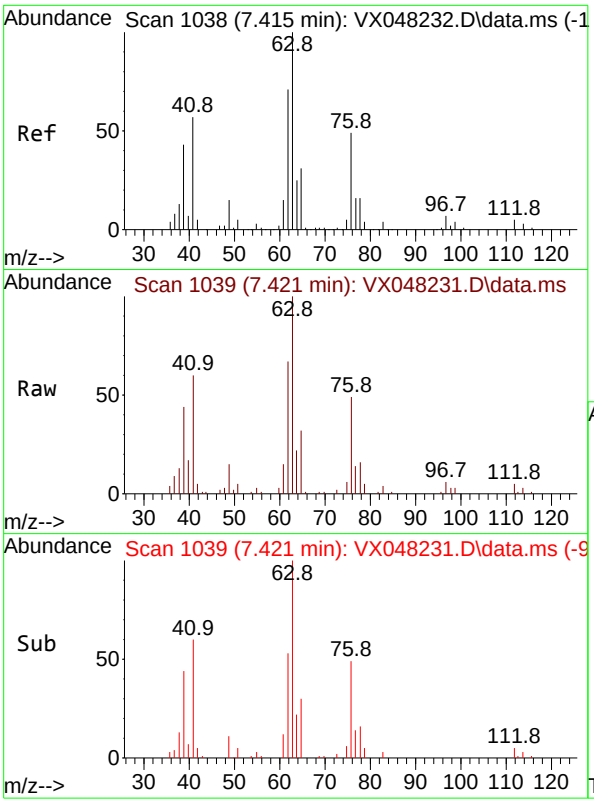


#44
Trichloroethene
Concen: 20.399 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:130 Resp: 29108

Ion	Ratio	Lower	Upper
130	100		
95	109.8	0.0	200.6

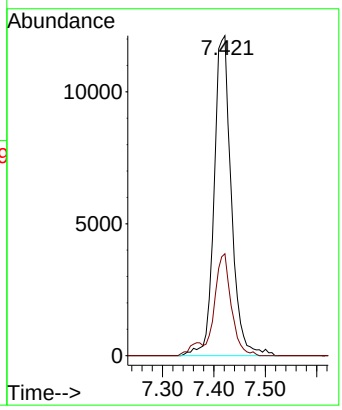




#45
1,2-Dichloropropane
Concen: 19.709 ug/l
RT: 7.421 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 63 Resp: 2824

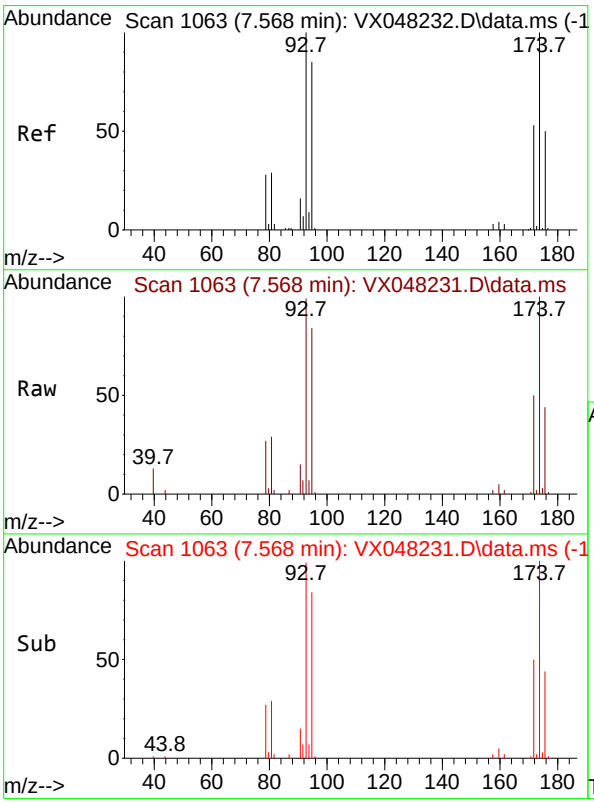
Ion	Ratio	Lower	Upper
63	100		
65	31.8	24.1	36.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

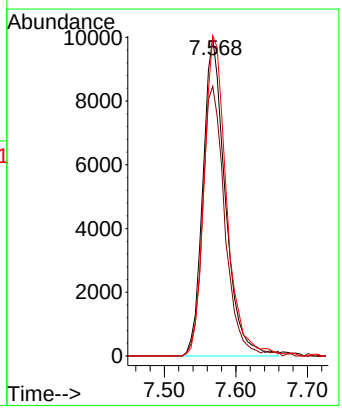
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

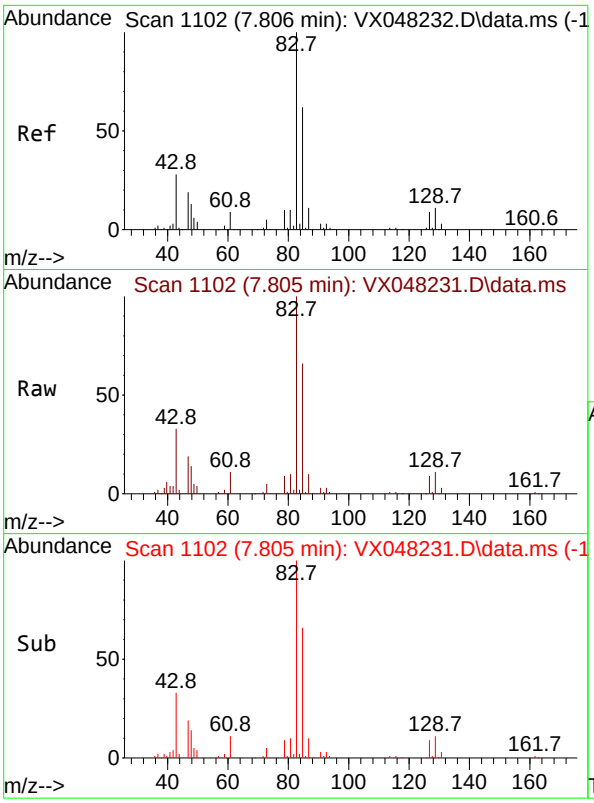


#46
Dibromomethane
Concen: 20.955 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 93 Resp: 21605

Ion	Ratio	Lower	Upper
93	100		
95	84.4	65.9	98.9
174	101.4	71.7	107.5

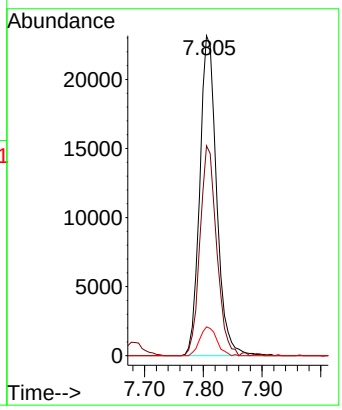




#47
Bromodichloromethane
Concen: 20.743 ug/l
RT: 7.805 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 83 Resp: 4622

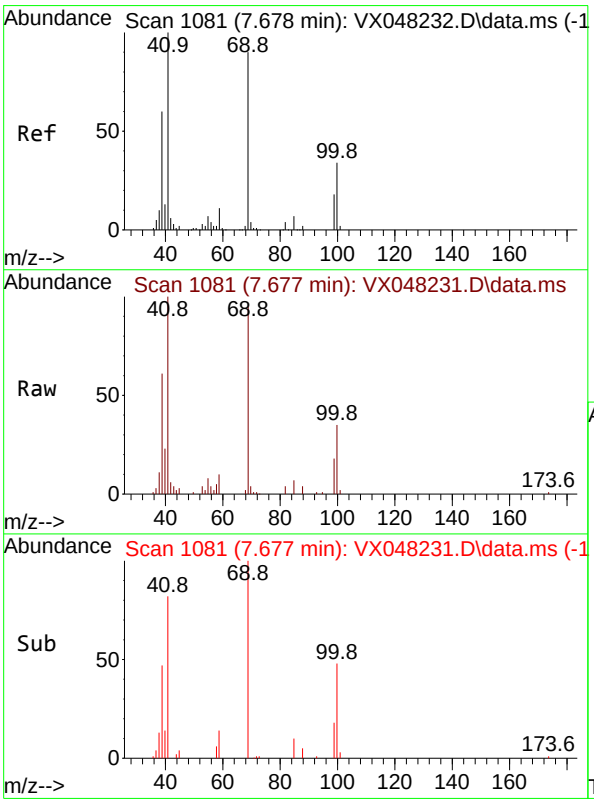
Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.2	78.4
127	9.0	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

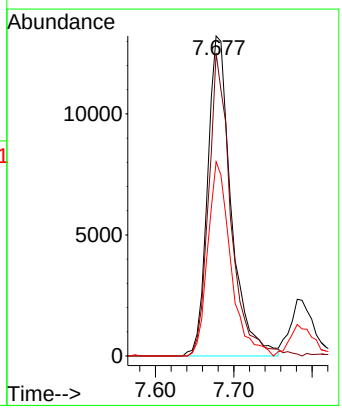
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

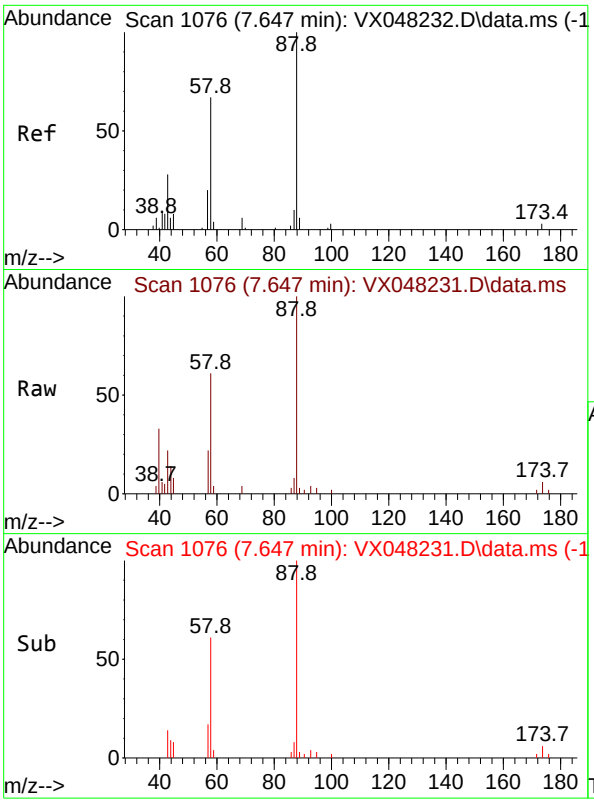


#48
Methyl methacrylate
Concen: 21.193 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 41 Resp: 27751

Ion	Ratio	Lower	Upper
41	100		
69	88.6	63.4	95.0
39	58.7	47.1	70.7

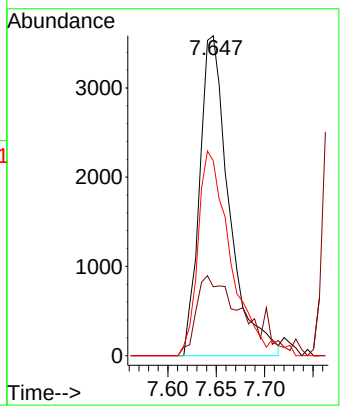




#49
1,4-Dioxane
Concen: 646.470 ug/l
RT: 7.647 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 88 Resp: 762

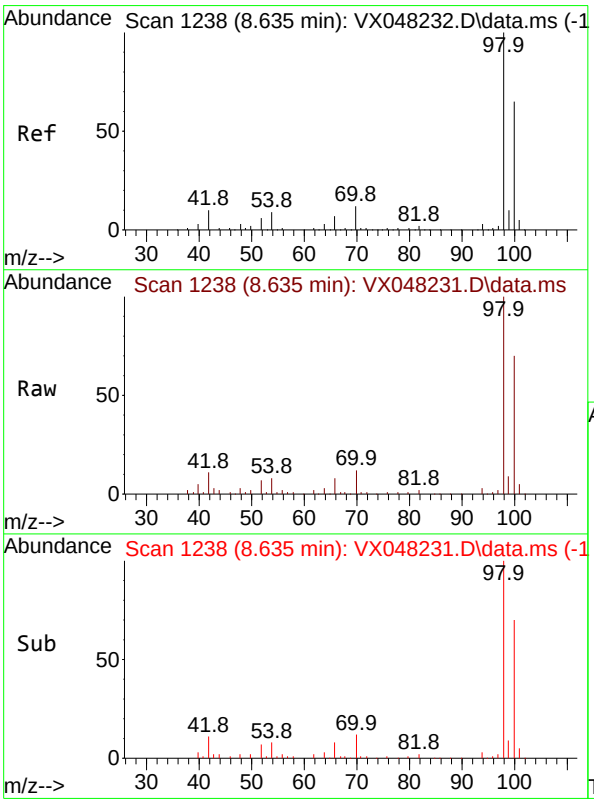
Ion	Ratio	Lower	Upper
88	100		
43	35.0	35.0	52.4
58	71.5	61.9	92.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

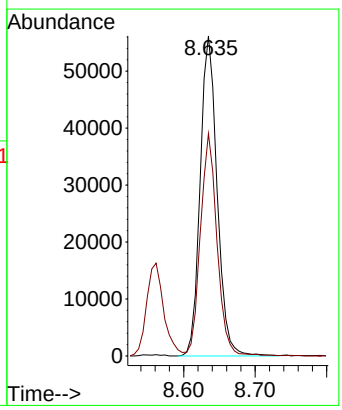
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

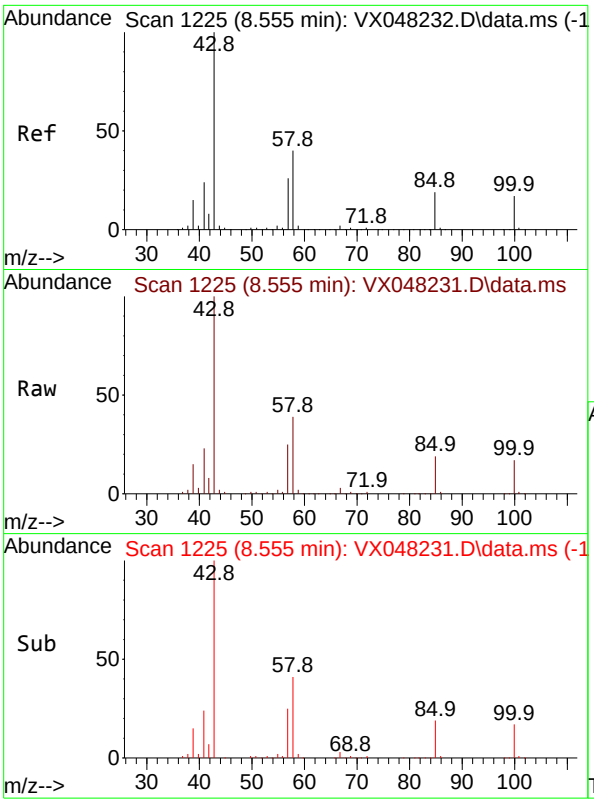


#50
Toluene-d8
Concen: 18.965 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 98 Resp: 92476

Ion	Ratio	Lower	Upper
98	100		
100	67.8	53.0	79.4





#51
4-Methyl-2-Pentanone
Concen: 115.713 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

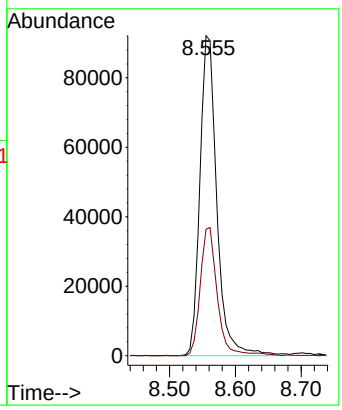
Tgt Ion: 43 Resp: 16470

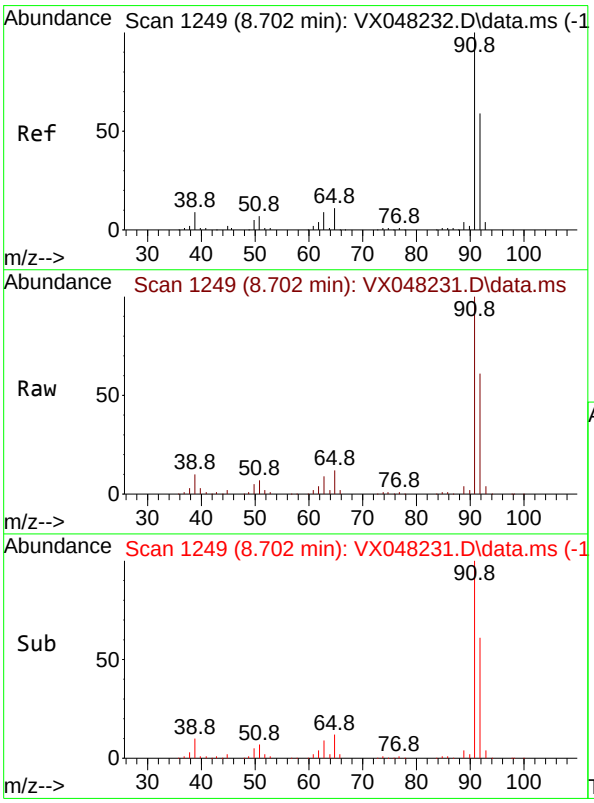
Ion	Ratio	Lower	Upper
43	100		
58	40.3	29.5	44.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

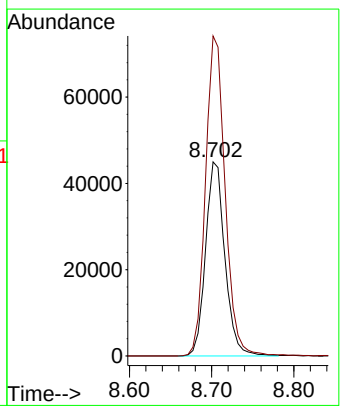


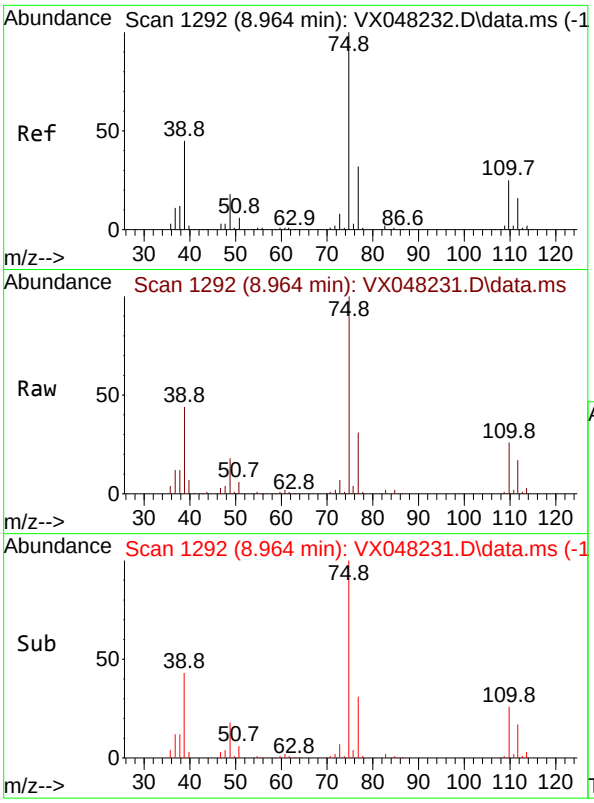


#52
Toluene
Concen: 21.635 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 92 Resp: 73623

Ion	Ratio	Lower	Upper
92	100		
91	167.2	136.1	204.1

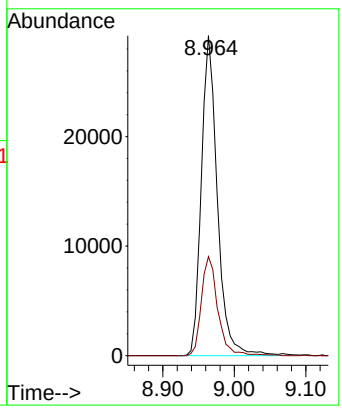




#53
t-1,3-Dichloropropene
Concen: 21.756 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 75 Resp: 4541

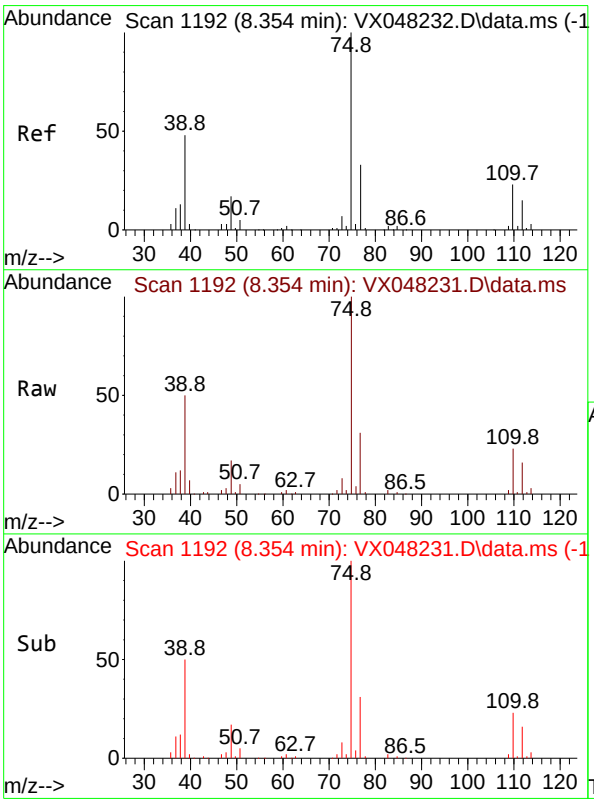
Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

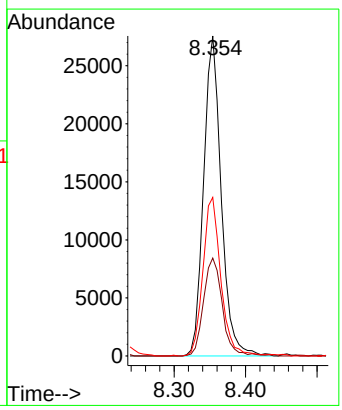
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

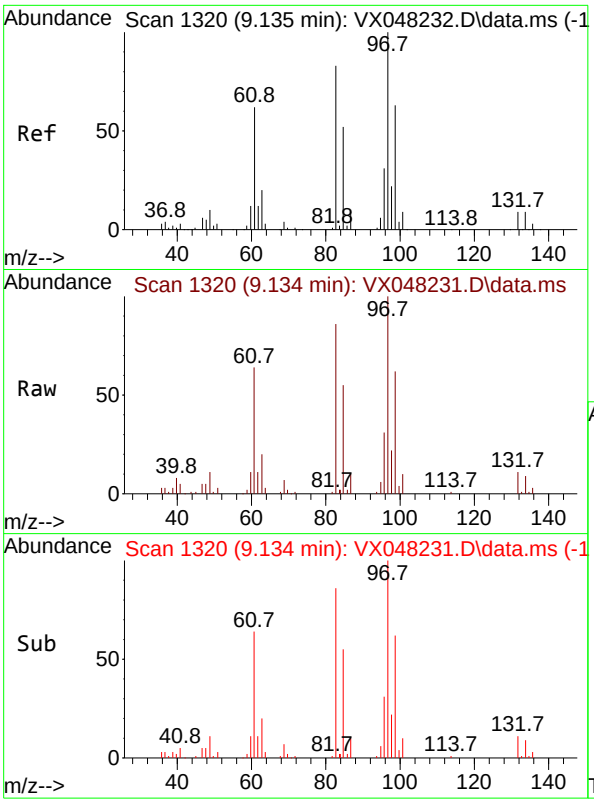


#54
cis-1,3-Dichloropropene
Concen: 20.713 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 75 Resp: 47130

Ion	Ratio	Lower	Upper
75	100		
77	30.6	24.9	37.3
39	49.5	42.6	64.0

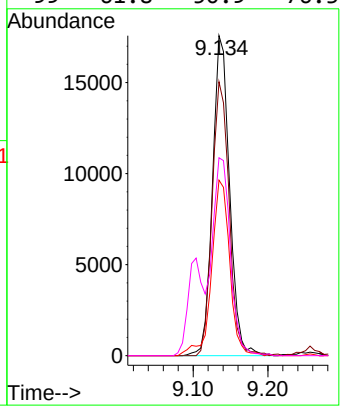




#55
1,1,2-Trichloroethane
Concen: 21.961 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 97 Resp: 2788

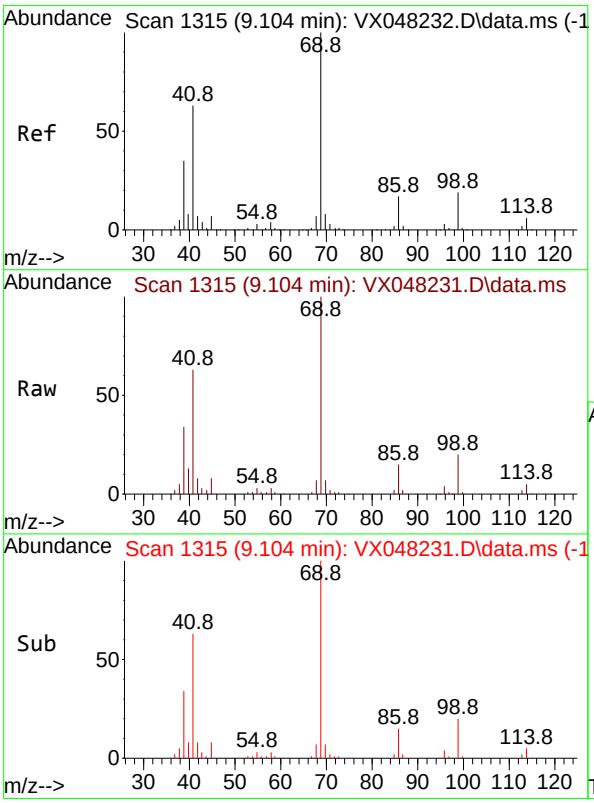
Ion	Ratio	Lower	Upper
97	100		
83	85.6	70.6	105.8
85	54.9	45.0	67.6
99	61.8	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

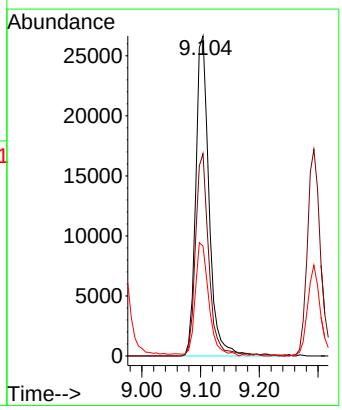
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

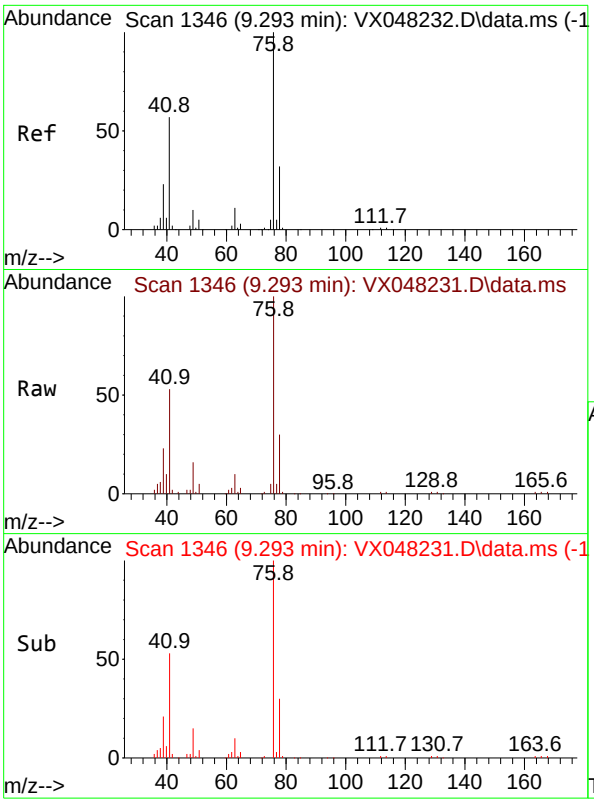


#56
Ethyl methacrylate
Concen: 24.210 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 69 Resp: 41809

Ion	Ratio	Lower	Upper
69	100		
41	63.2	56.0	84.0
39	36.3	31.6	47.4





#57
1,3-Dichloropropane
Concen: 21.591 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

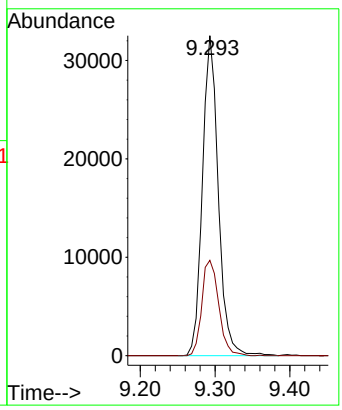
Tgt Ion: 76 Resp: 4789

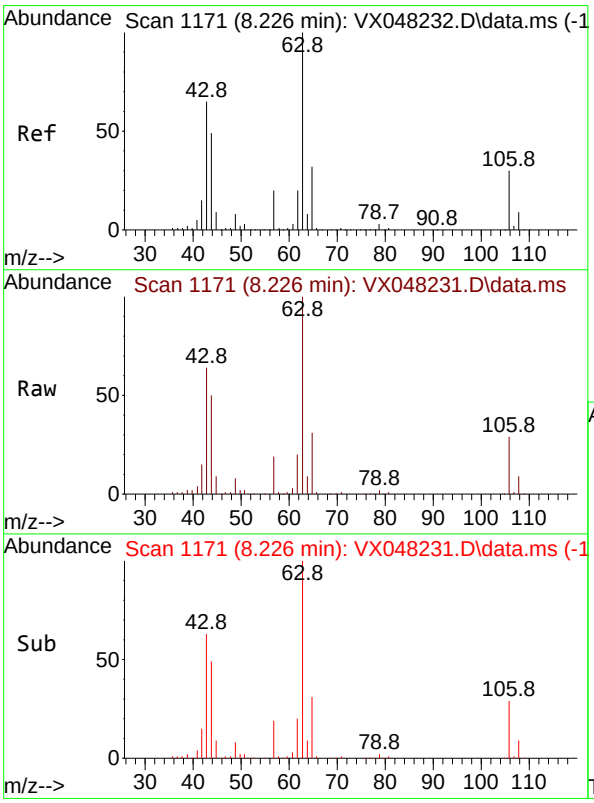
Ion	Ratio	Lower	Upper
76	100		
78	31.7	25.4	38.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

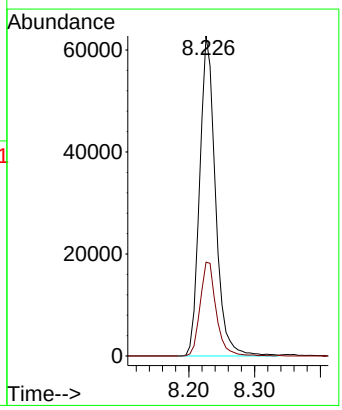


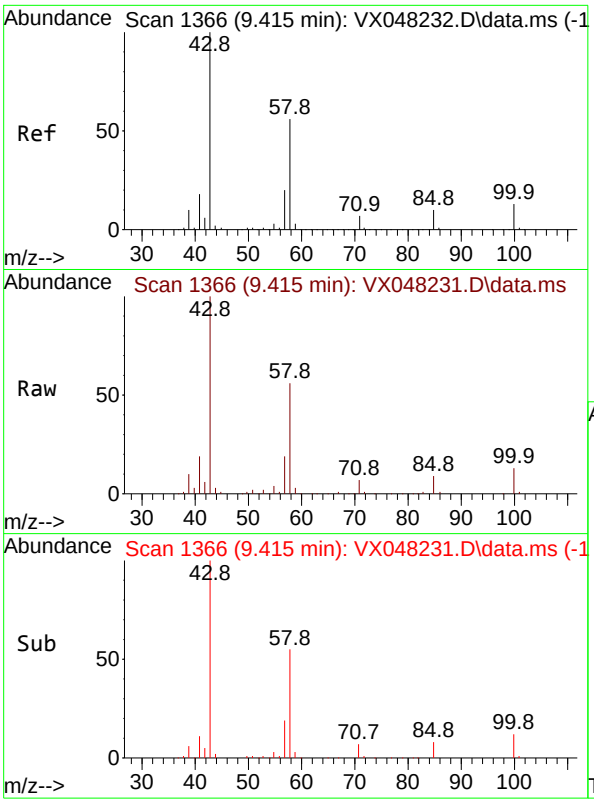


#58
2-Chloroethyl Vinyl ether
Concen: 118.278 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 63 Resp: 104883

Ion	Ratio	Lower	Upper
63	100		
106	29.7	22.2	33.2





#59
2-Hexanone
Concen: 116.777 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

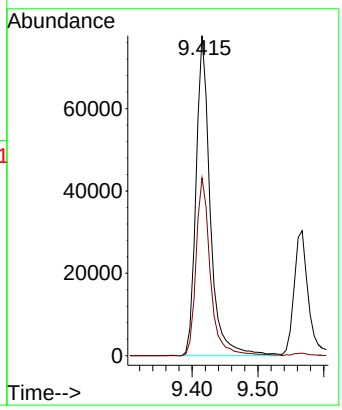
Tgt Ion: 43 Resp: 11626

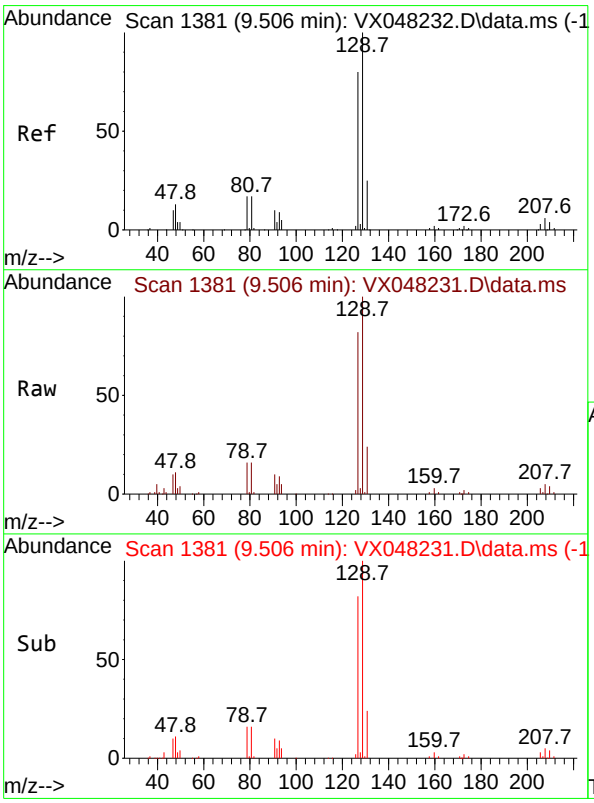
Ion	Ratio	Lower	Upper
43	100		
58	56.1	26.3	78.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

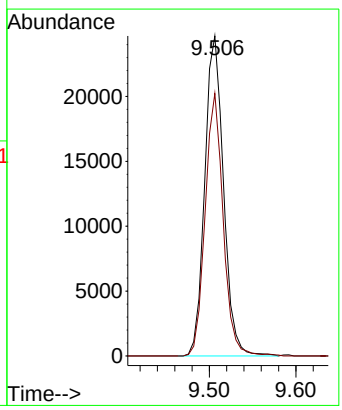


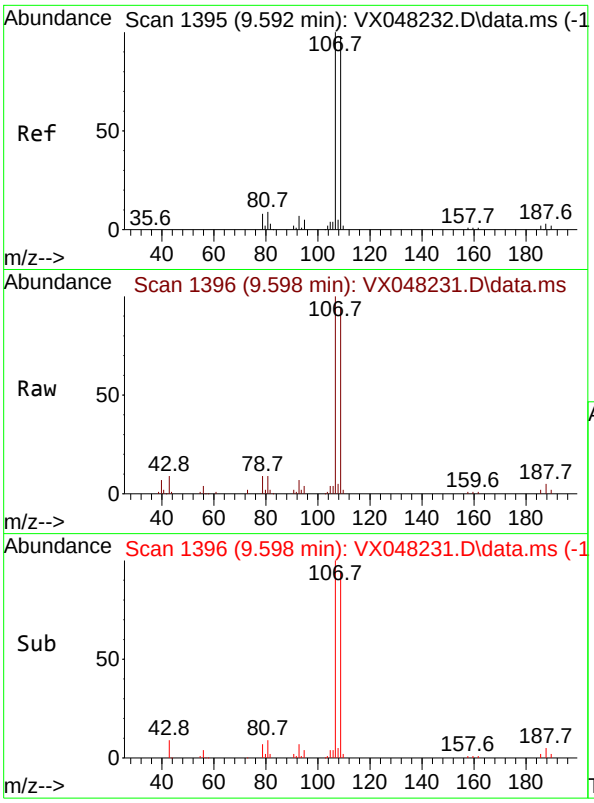


#60
Dibromochloromethane
Concen: 23.361 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:129 Resp: 37127

Ion	Ratio	Lower	Upper
129	100		
127	78.9	38.6	115.7





#61
1,2-Dibromoethane
Concen: 23.533 ug/l
RT: 9.598 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

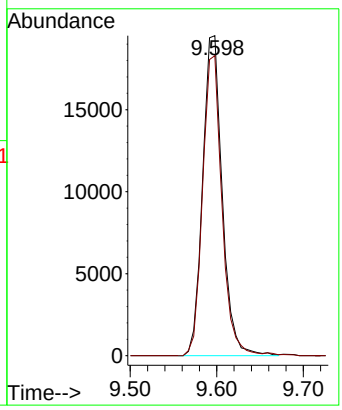
Tgt Ion:107 Resp: 3063

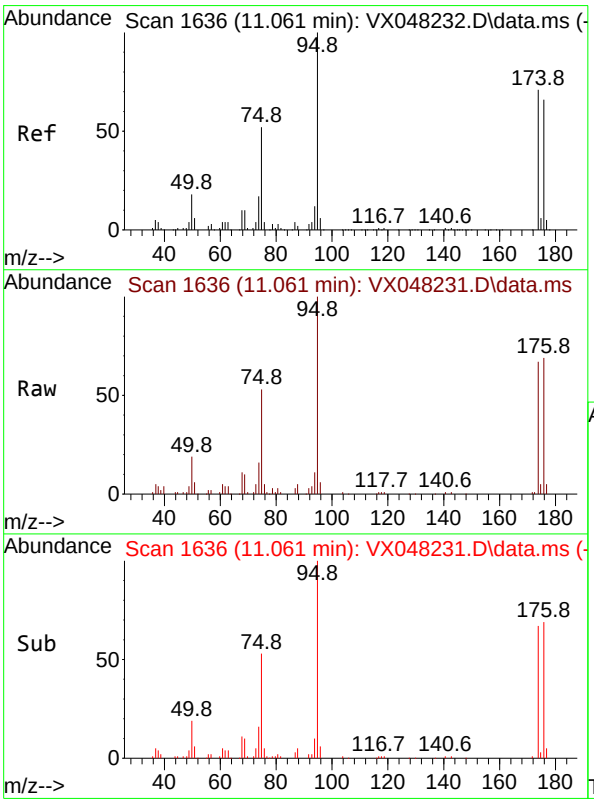
Ion	Ratio	Lower	Upper
107	100		
109	92.2	77.0	115.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

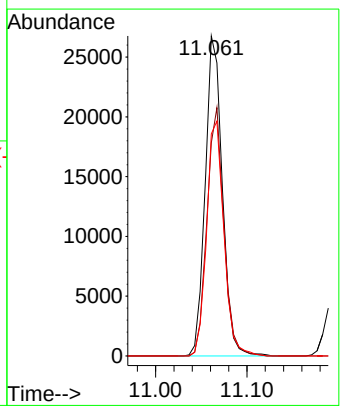


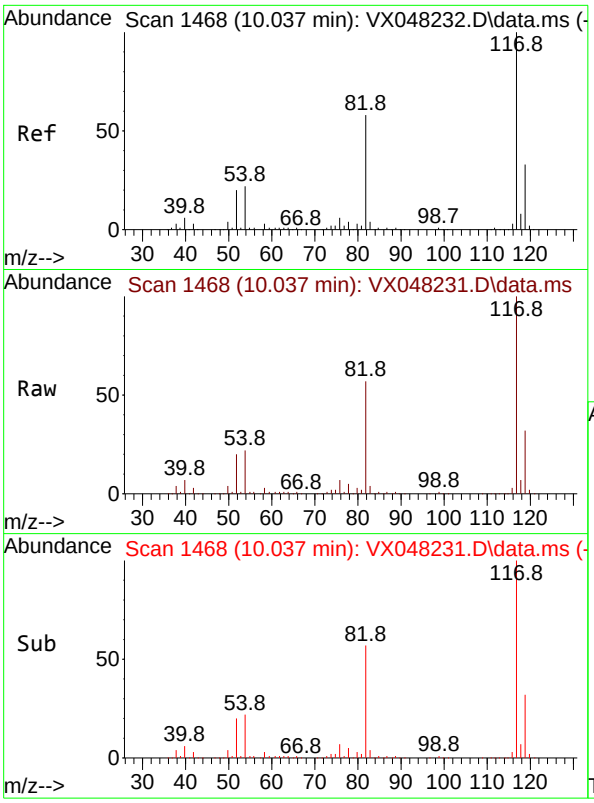


#62
4-Bromofluorobenzene
Concen: 19.551 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 95 Resp: 34724

Ion	Ratio	Lower	Upper
95	100		
174	76.8	0.0	147.8
176	74.3	0.0	142.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

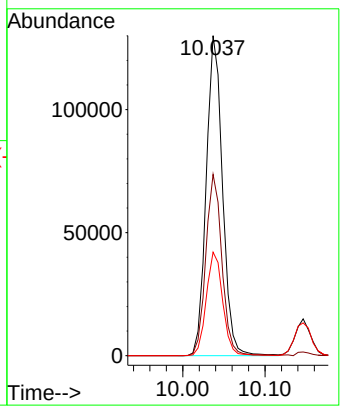
Tgt Ion:117 Resp: 17897

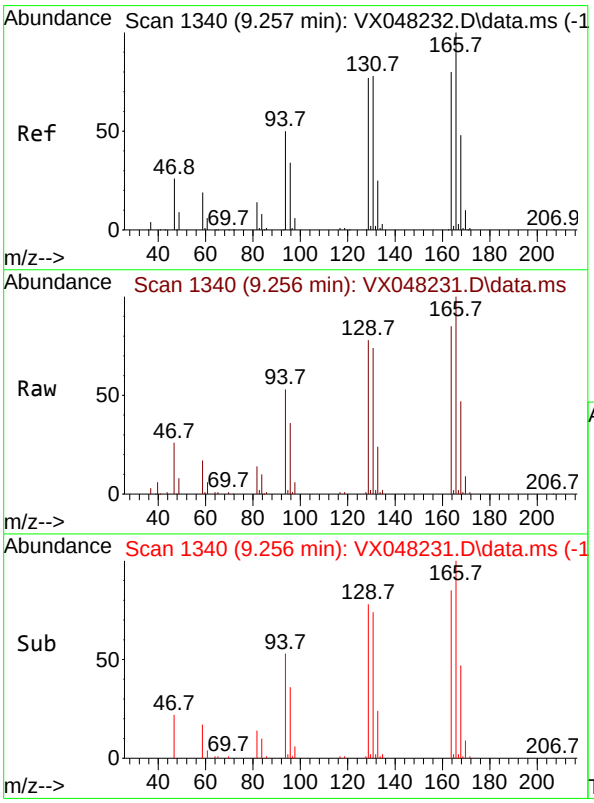
Ion	Ratio	Lower	Upper
117	100		
82	56.6	46.5	69.7
119	32.4	25.9	38.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

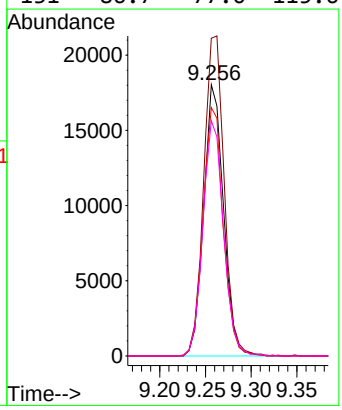


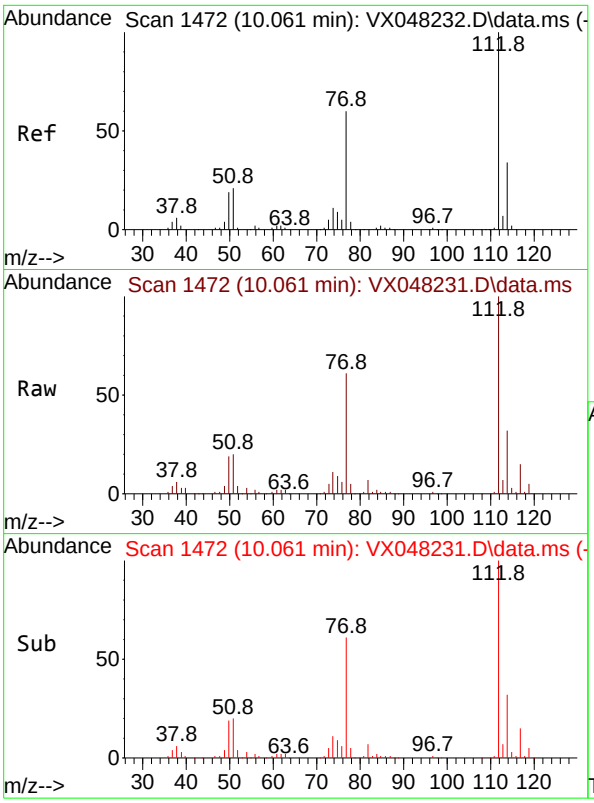


#64
Tetrachloroethene
Concen: 21.550 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:164 Resp: 27043

Ion	Ratio	Lower	Upper
164	100		
166	117.2	104.5	156.7
129	91.6	81.8	122.6
131	86.7	77.0	115.6

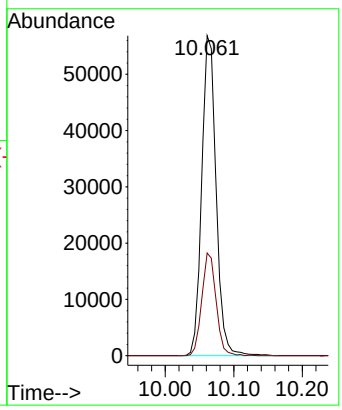




#65
Chlorobenzene
Concen: 21.211 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:112 Resp: 8300

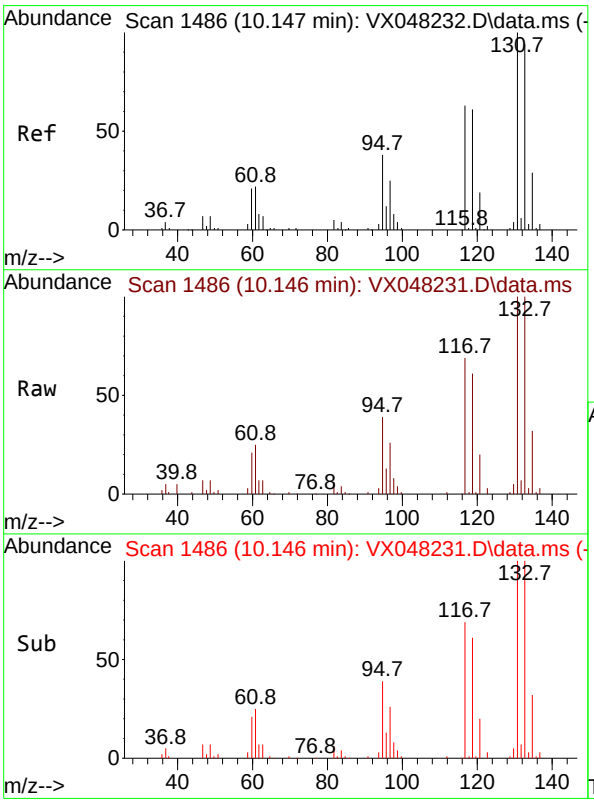
Ion	Ratio	Lower	Upper
112	100		
114	32.1	26.2	39.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

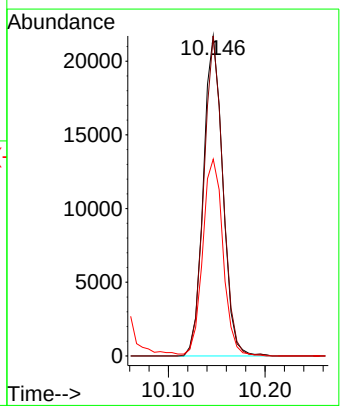
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

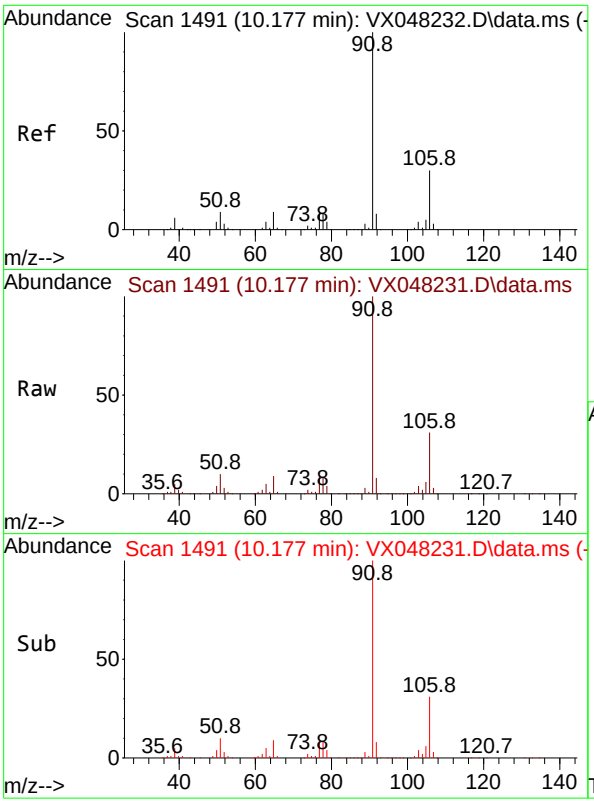


#66
1,1,1,2-Tetrachloroethane
Concen: 21.471 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:131 Resp: 30278

Ion	Ratio	Lower	Upper
131	100		
133	98.2	47.6	142.8
119	64.5	32.5	97.5





#67
Ethyl Benzene
Concen: 20.852 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

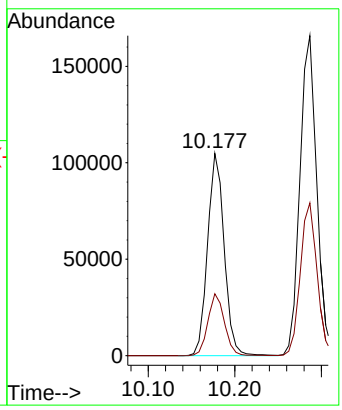
Tgt Ion: 91 Resp: 13989

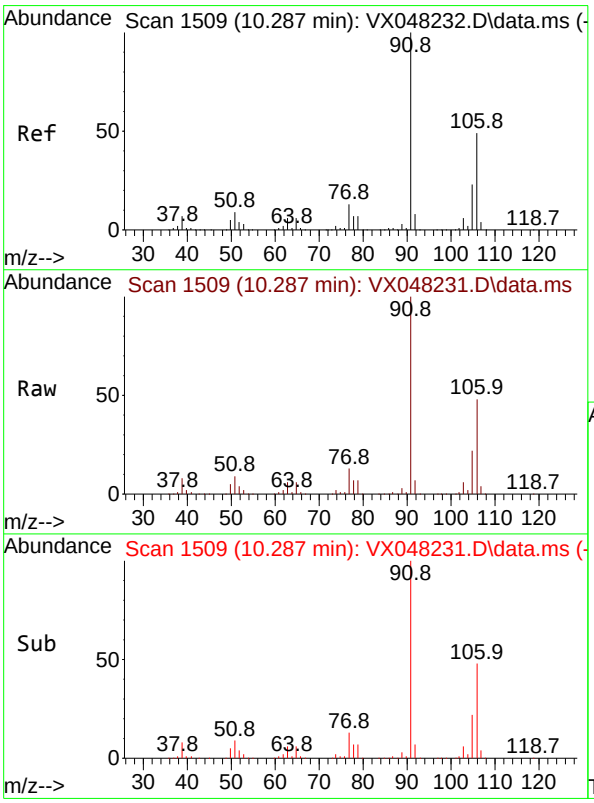
Ion	Ratio	Lower	Upper
91	100		
106	30.6	23.8	35.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

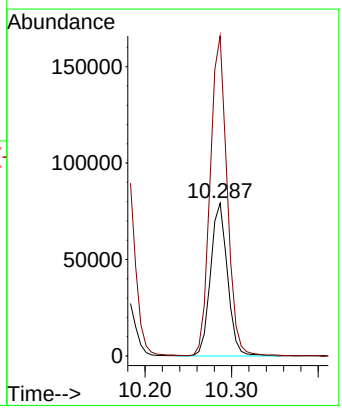


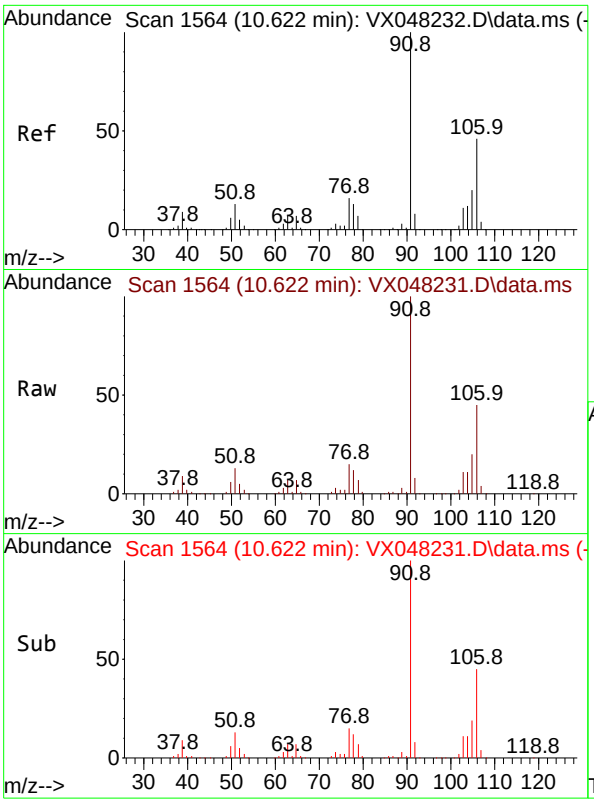


#68
m/p-Xylenes
Concen: 42.962 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:106 Resp: 107377

Ion	Ratio	Lower	Upper
106	100		
91	209.9	167.9	251.9





#69
o-Xylene
Concen: 21.655 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

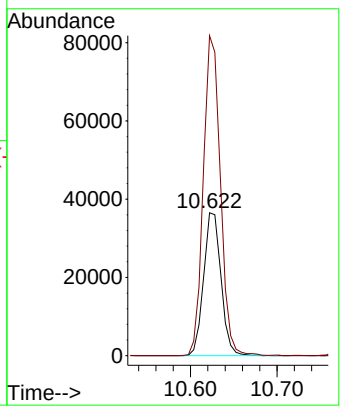
Tgt Ion:106 Resp: 5095

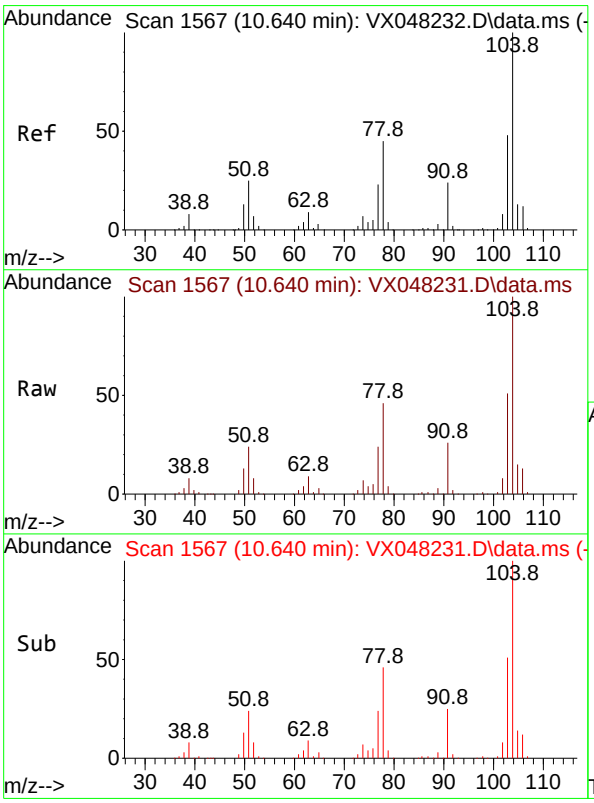
Ion	Ratio	Lower	Upper
106	100		
91	220.1	111.3	333.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

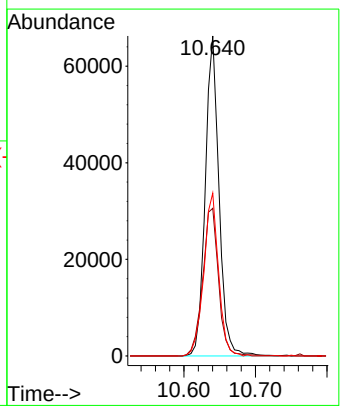


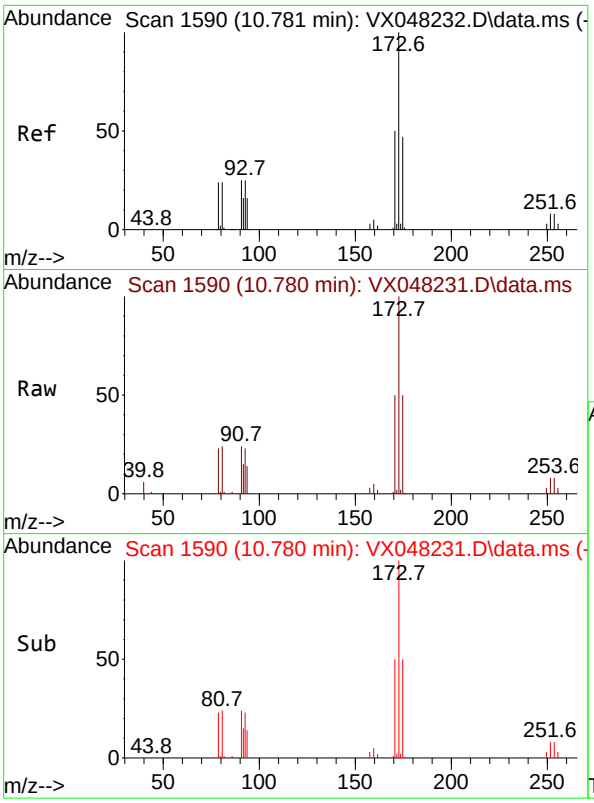


#70
Styrene
Concen: 21.848 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:104 Resp: 88481

Ion	Ratio	Lower	Upper
104	100		
78	53.5	42.2	63.4
103	54.7	43.0	64.4

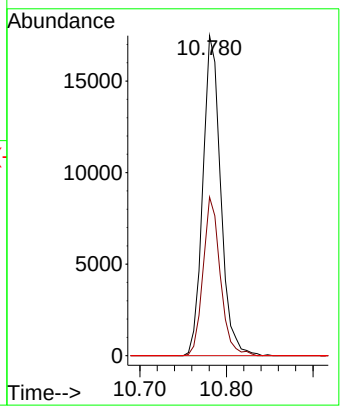




#71
Bromoform
Concen: 24.168 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:173 Resp: 2502

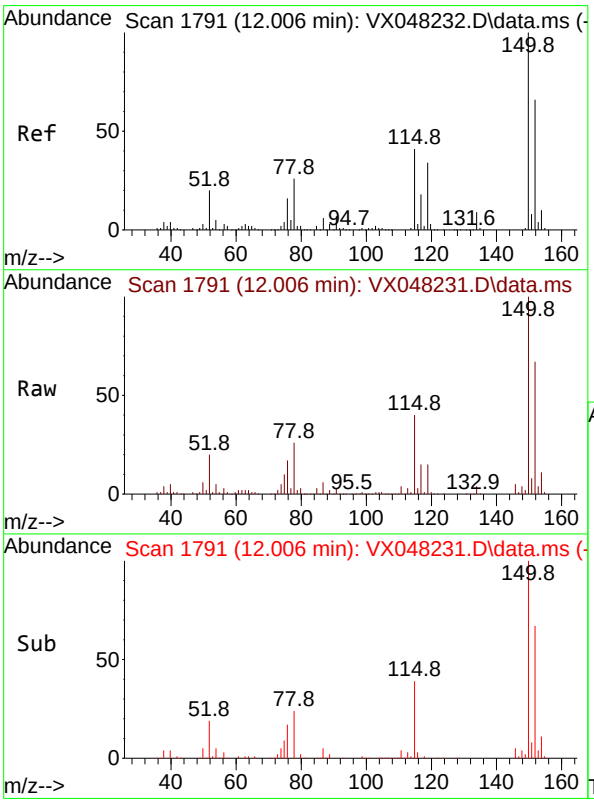
Ion	Ratio	Lower	Upper
173	100		
175	47.8	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

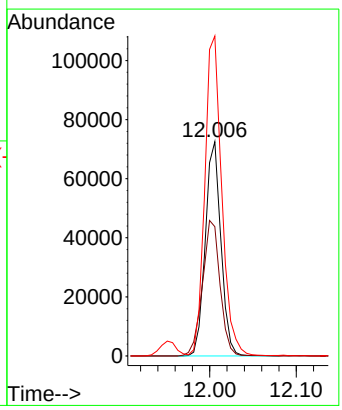
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

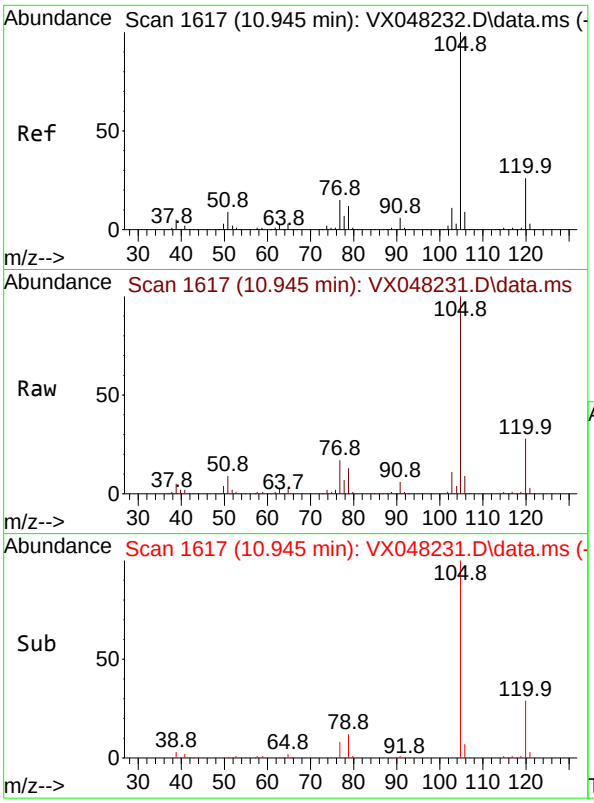


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:152 Resp: 90972

Ion	Ratio	Lower	Upper
152	100		
115	71.1	43.1	129.4
150	161.6	0.0	353.0





#73
Isopropylbenzene
Concen: 21.025 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

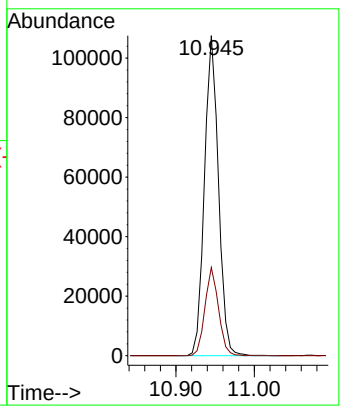
Tgt Ion:105 Resp: 13303

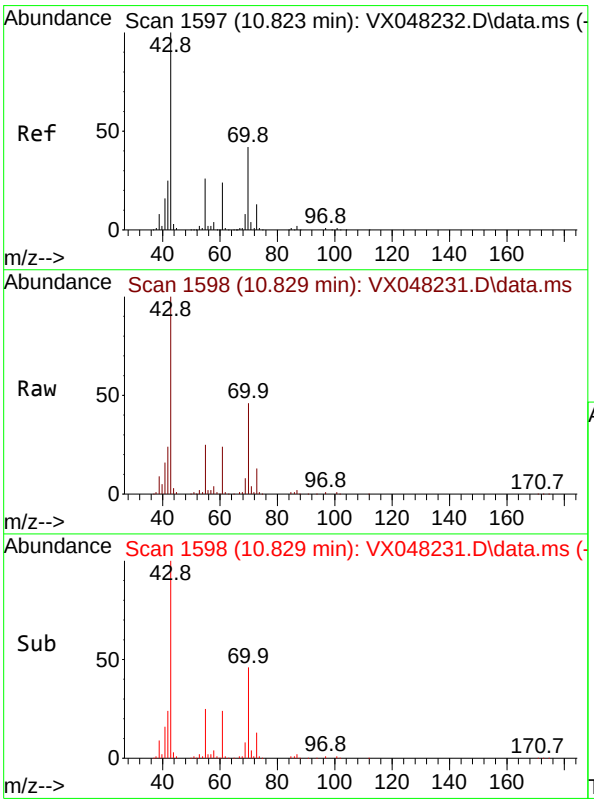
Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.0	38.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

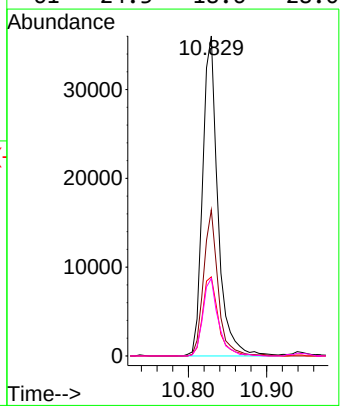


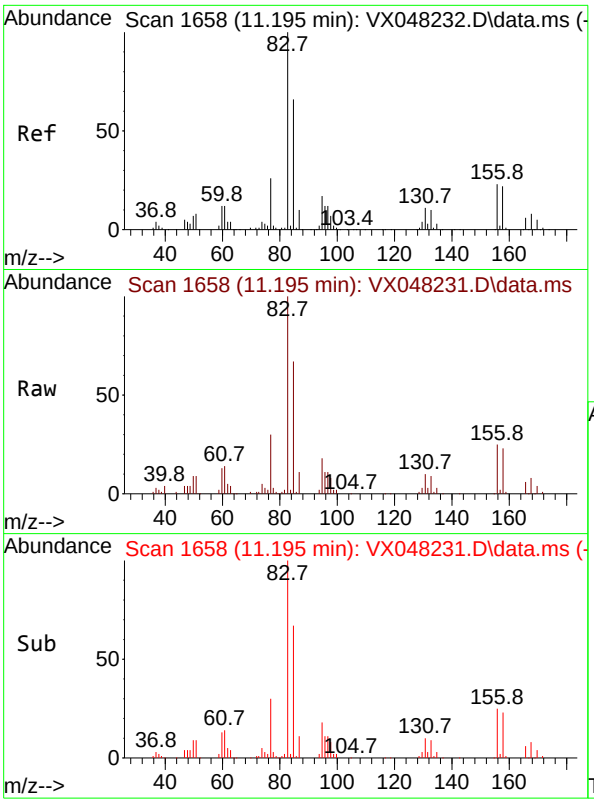


#74
N-amyl acetate
Concen: 20.642 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 43 Resp: 48726

Ion	Ratio	Lower	Upper
43	100		
70	43.4	32.2	48.2
55	25.5	19.1	28.7
61	24.3	18.6	28.0





#75
1,1,2,2-Tetrachloroethane
Concen: 21.616 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

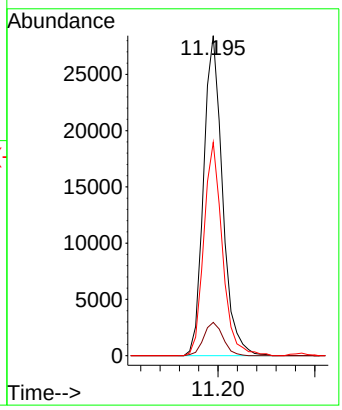
Tgt Ion: 83 Resp: 3874

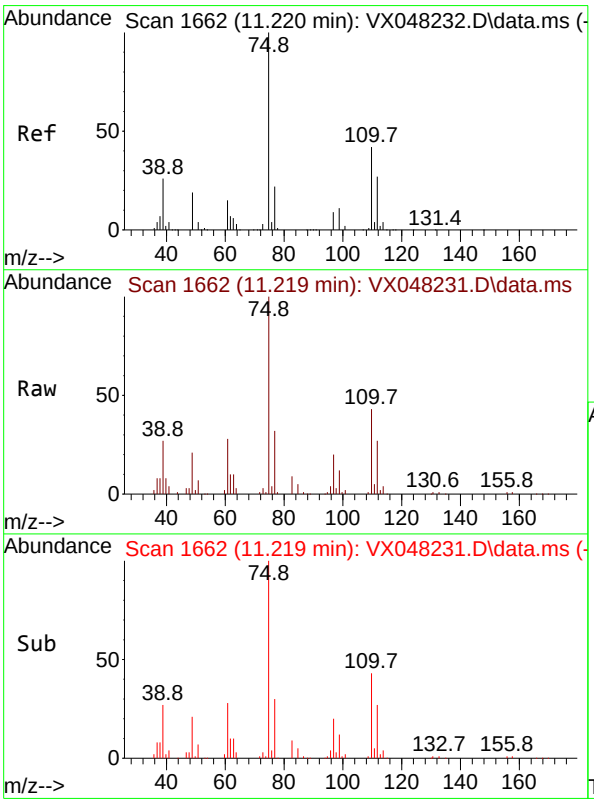
Ion	Ratio	Lower	Upper
83	100		
131	10.6	4.8	14.4
85	65.2	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

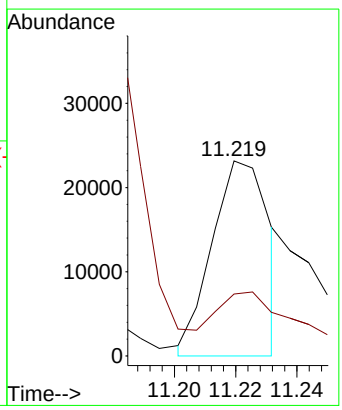


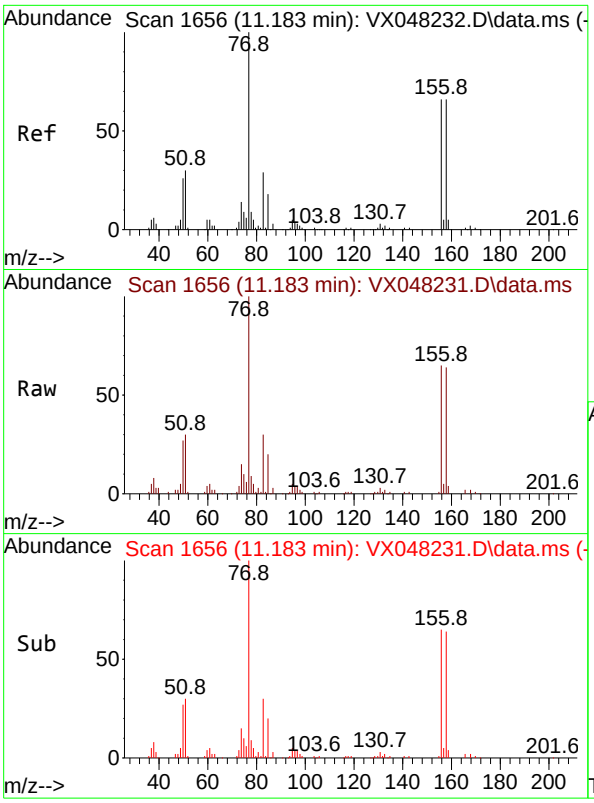


#76
1,2,3-Trichloropropane
Concen: 21.533 ug/l m
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 75 Resp: 29913

Ion	Ratio	Lower	Upper
75	100		
77	46.2	22.4	67.2





#77
Bromobenzene
Concen: 21.374 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

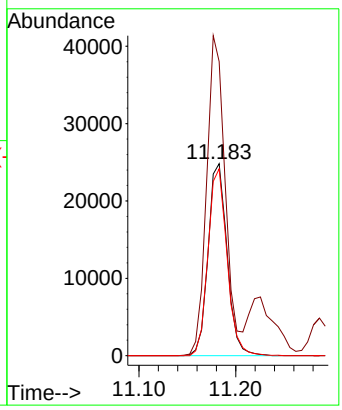
Tgt Ion:156 Resp: 3384

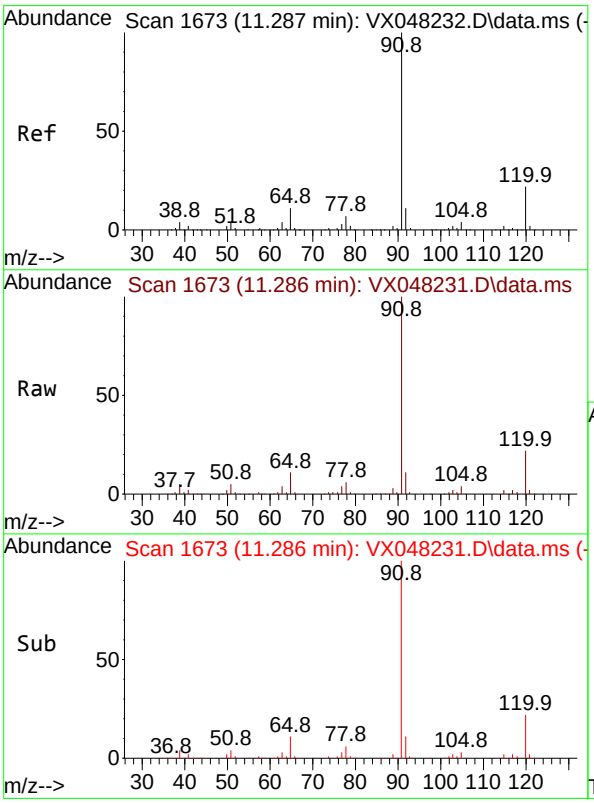
Ion	Ratio	Lower	Upper
156	100		
77	164.0	87.0	261.0
158	97.7	47.8	143.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

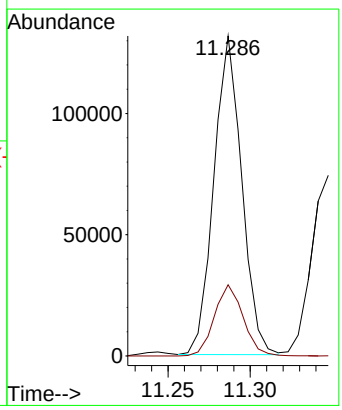


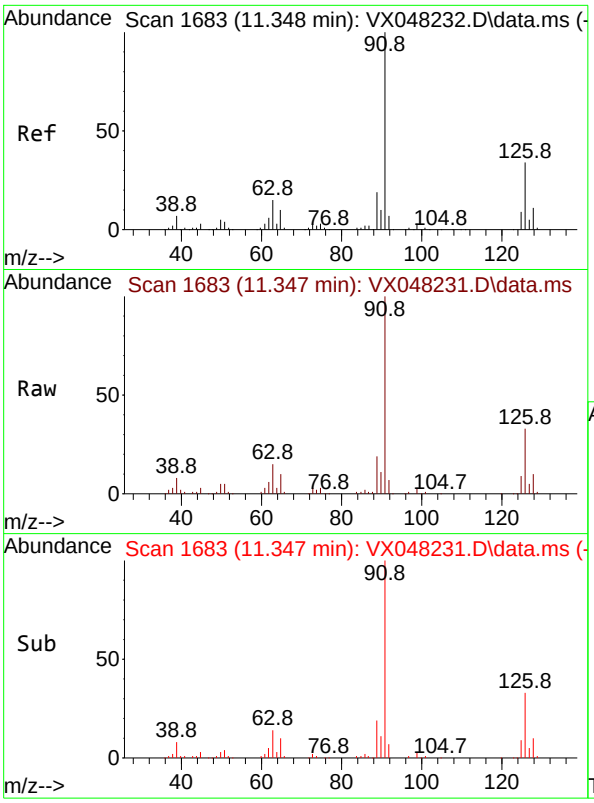


#78
n-propylbenzene
Concen: 20.180 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 91 Resp: 154839

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.1	33.1

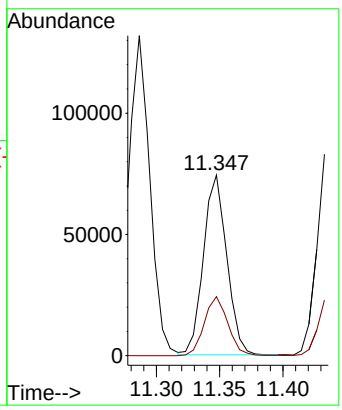




#79
2-Chlorotoluene
Concen: 20.526 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 91 Resp: 9515

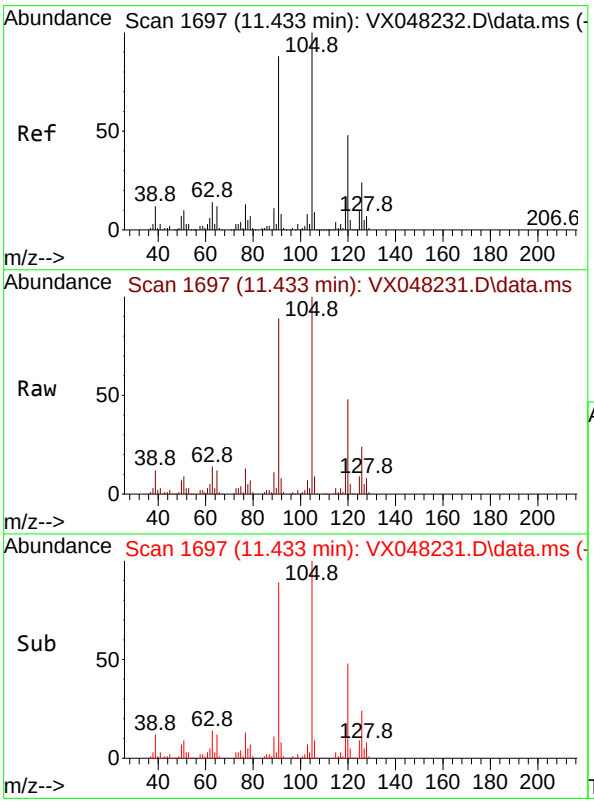
Ion	Ratio	Lower	Upper
91	100		
126	33.3	16.4	49.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

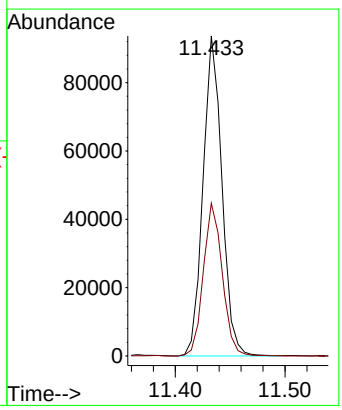
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

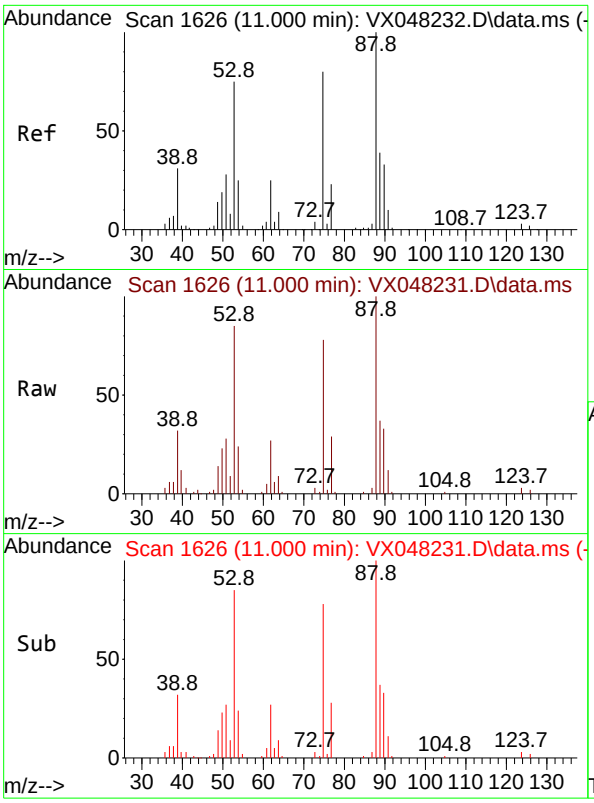


#80
1,3,5-Trimethylbenzene
Concen: 21.575 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:105 Resp: 112057

Ion	Ratio	Lower	Upper
105	100		
120	47.9	24.0	72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 21.154 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

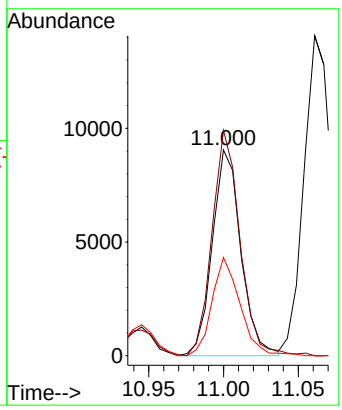
Tgt Ion: 75 Resp: 1200

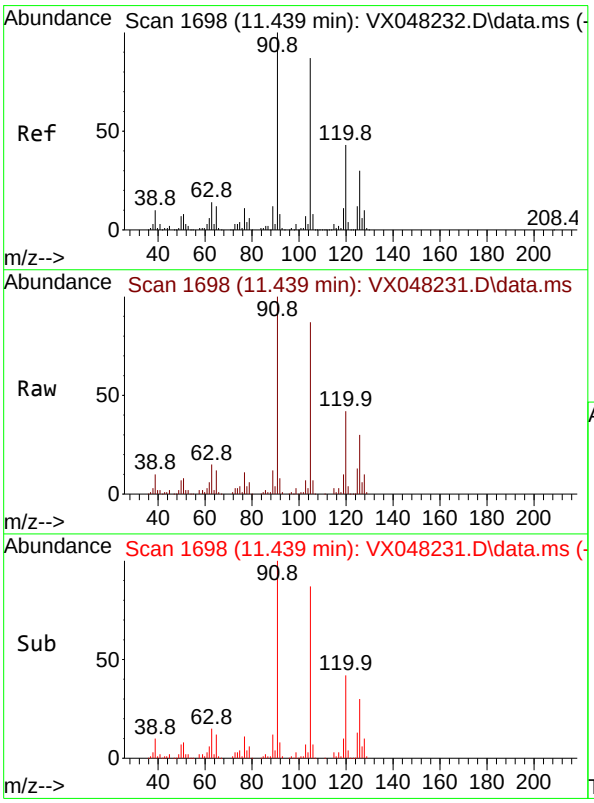
Ion	Ratio	Lower	Upper
75	100		
53	107.3	79.5	119.3
89	46.9	36.8	55.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

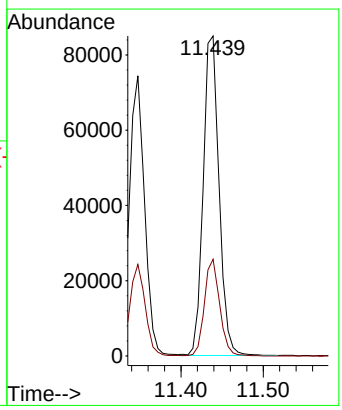


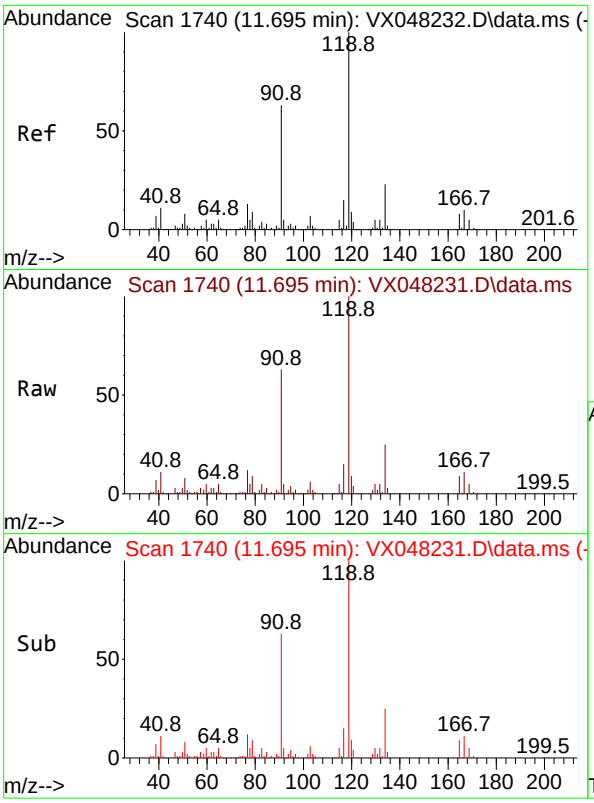


#82
4-Chlorotoluene
Concen: 20.833 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 91 Resp: 113495

Ion	Ratio	Lower	Upper
91	100		
126	29.3	14.1	42.4

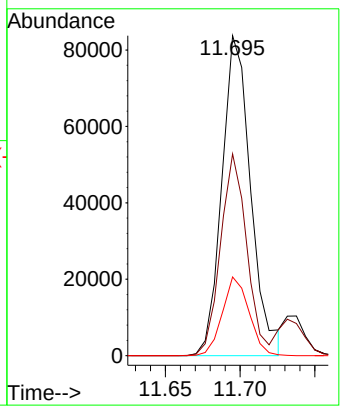




#83
tert-Butylbenzene
Concen: 21.403 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:119 Resp: 11230

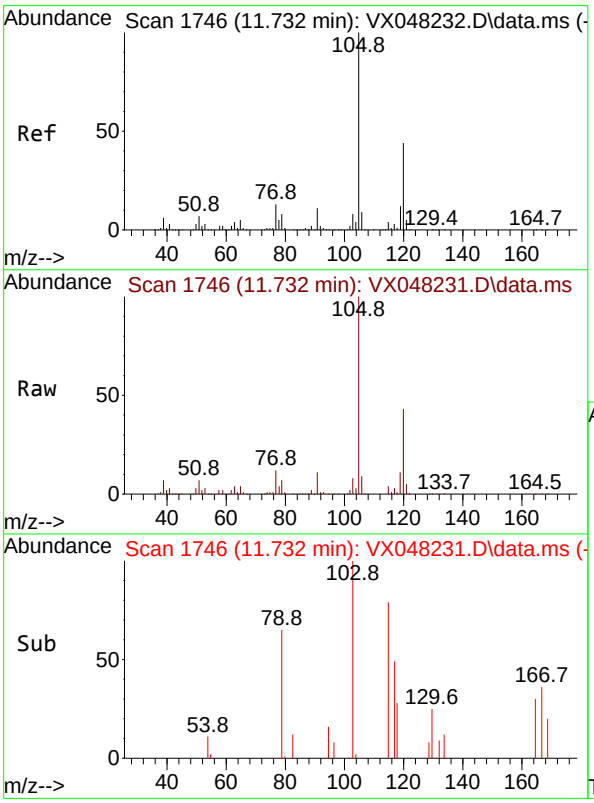
Ion	Ratio	Lower	Upper
119	100		
91	57.4	30.3	91.0
134	22.8	11.4	34.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

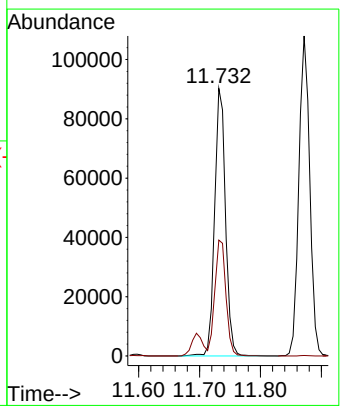
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

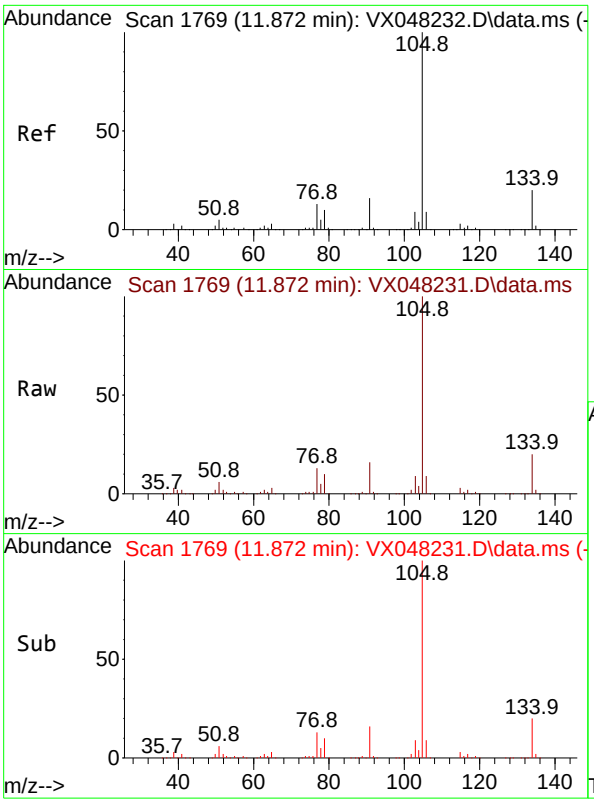


#84
1,2,4-Trimethylbenzene
Concen: 21.652 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:105 Resp: 111976

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.1	66.5

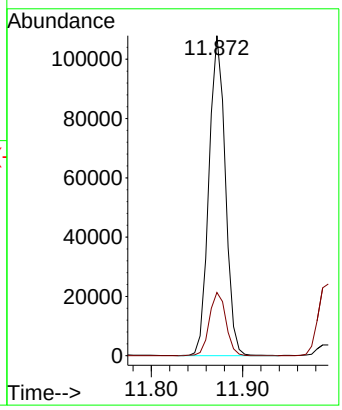




#85
sec-Butylbenzene
Concen: 20.891 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:105 Resp: 13401

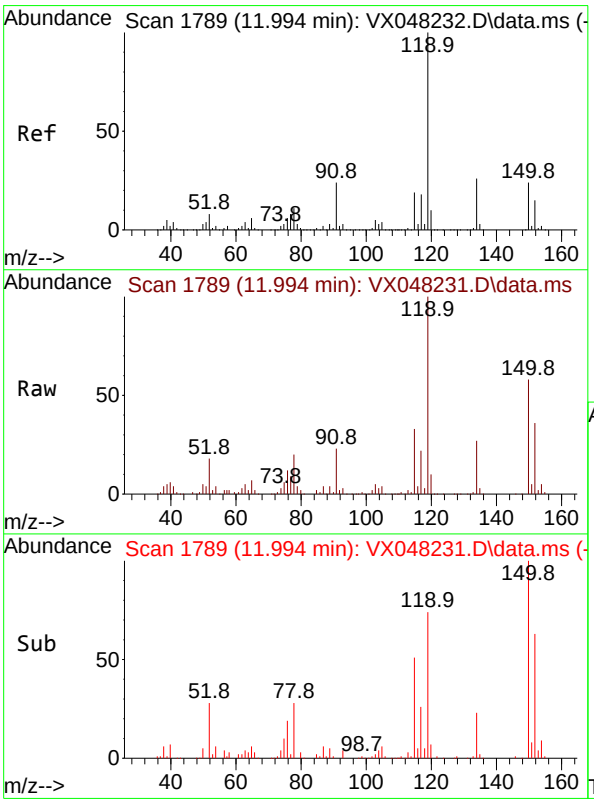
Ion	Ratio	Lower	Upper
105	100		
134	20.0	10.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

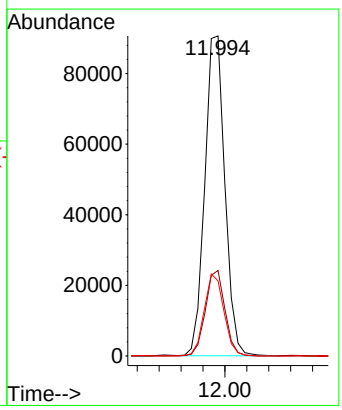
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

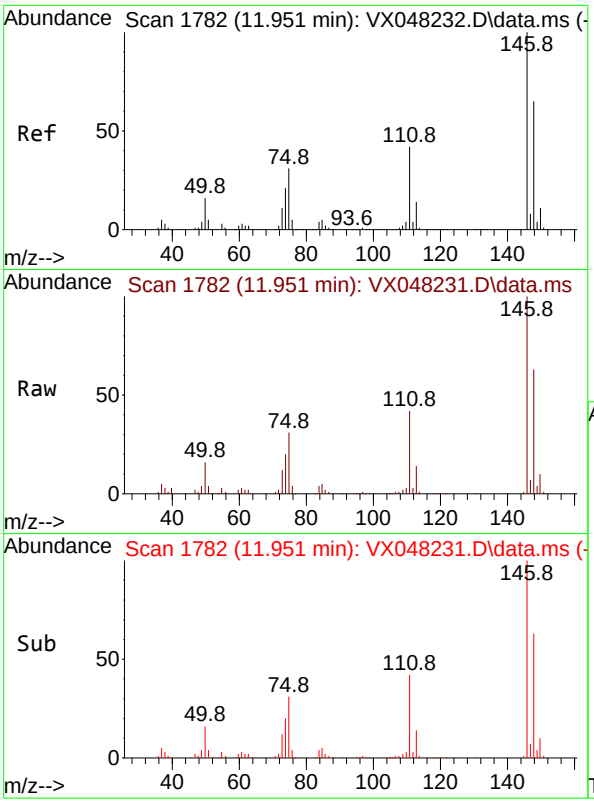


#86
p-Isopropyltoluene
Concen: 21.263 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:119 Resp: 114969

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.0	39.0
91	25.1	12.1	36.3

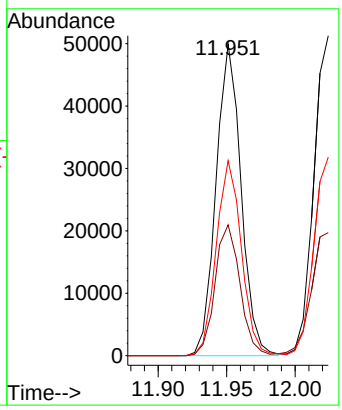




#87
1,3-Dichlorobenzene
Concen: 21.403 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:146 Resp: 6337

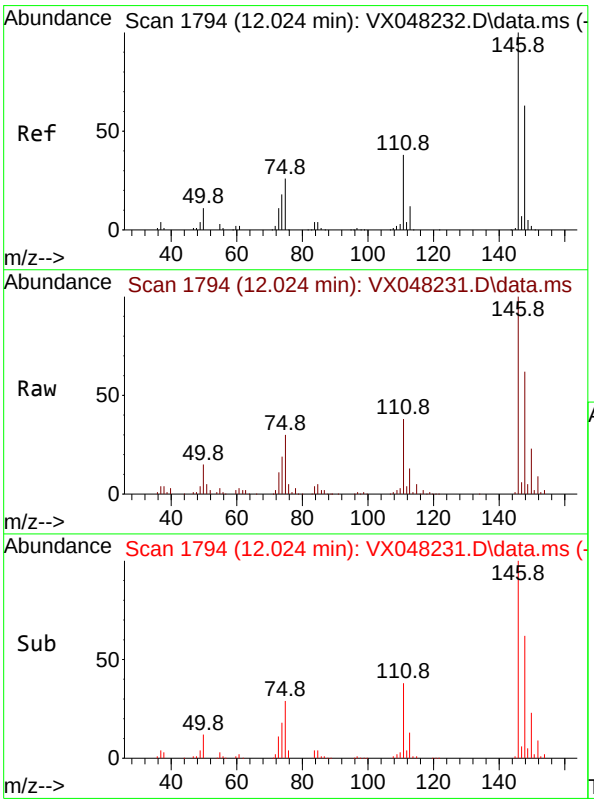
Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.4	61.2
148	63.1	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

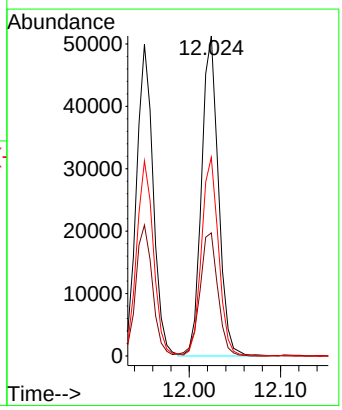
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

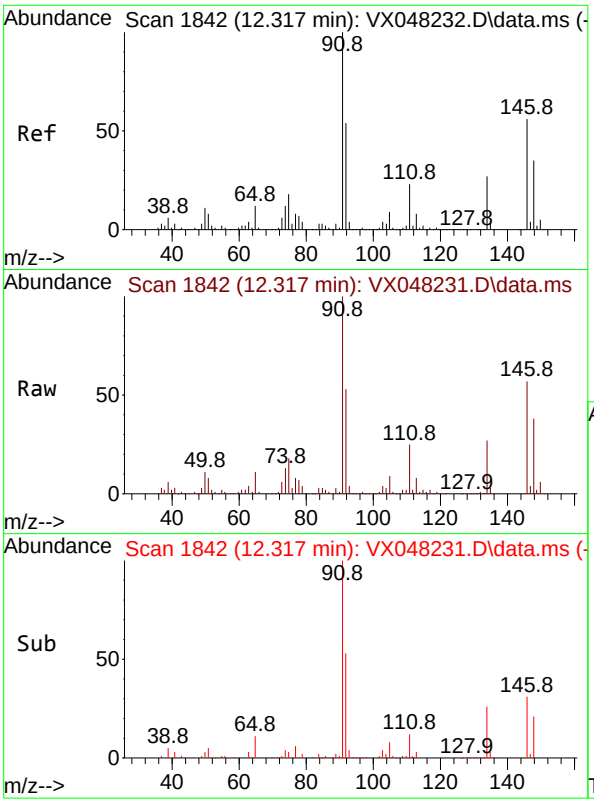


#88
1,4-Dichlorobenzene
Concen: 21.375 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:146 Resp: 65612

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.1	60.2
148	62.6	31.8	95.3





#89
n-Butylbenzene
Concen: 20.281 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

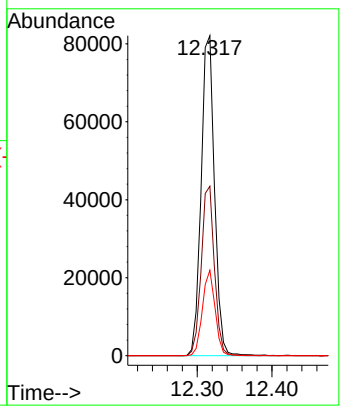
Tgt Ion: 91 Resp: 10214

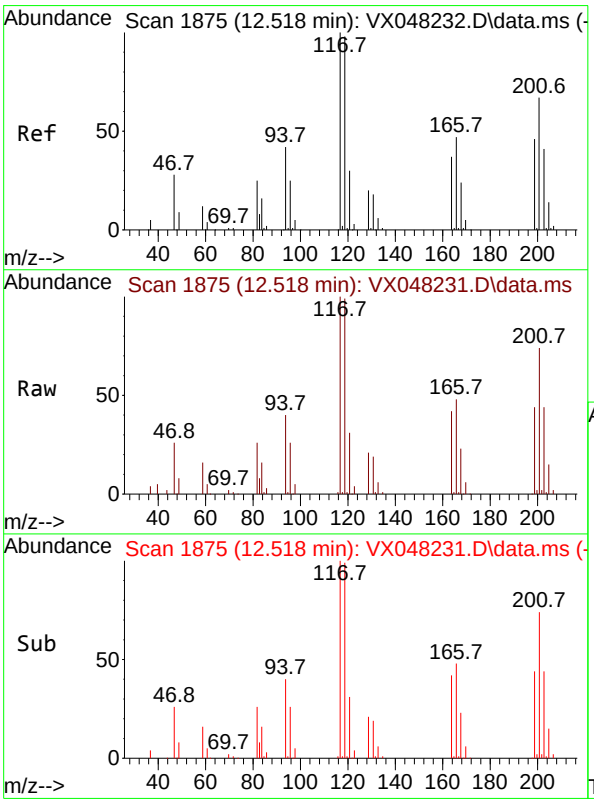
Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.9	80.6
134	25.2	12.7	38.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

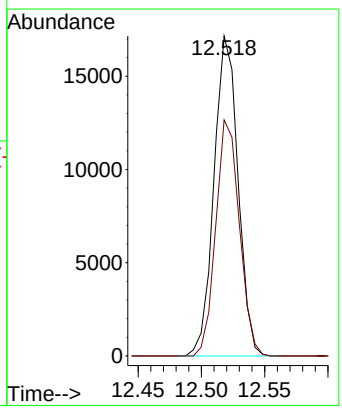


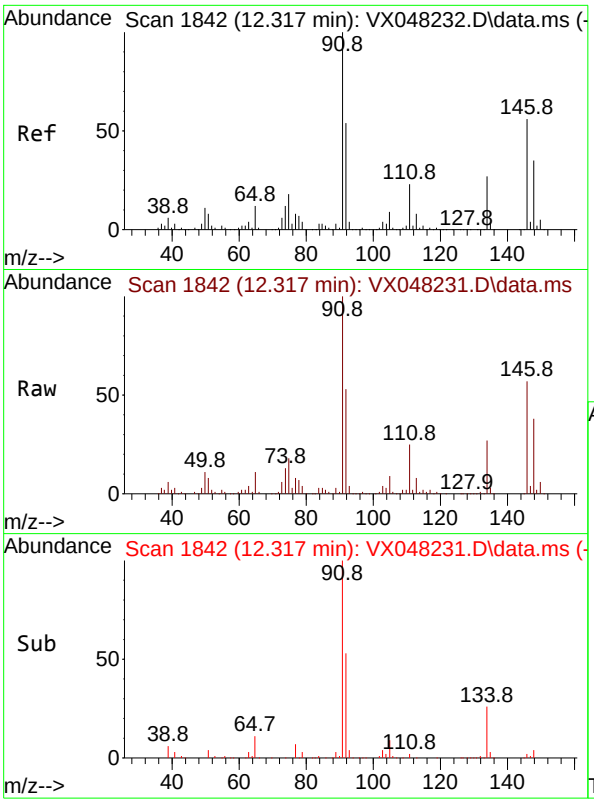


#90
Hexachloroethane
Concen: 19.811 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:117 Resp: 22609

Ion	Ratio	Lower	Upper
117	100		
201	72.6	34.1	102.2

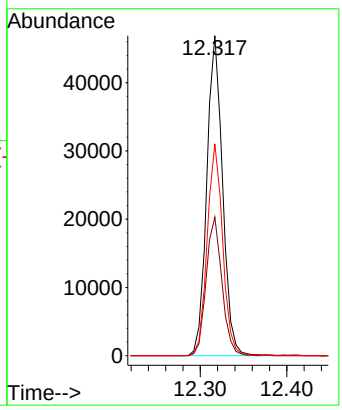




#91
1,2-Dichlorobenzene
Concen: 21.212 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:146 Resp: 5934

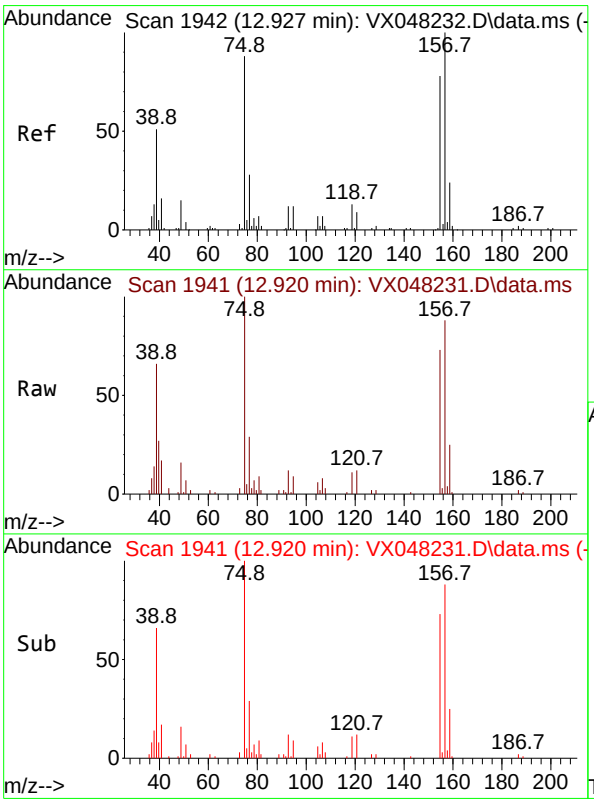
Ion	Ratio	Lower	Upper
146	100		
111	43.2	21.9	65.5
148	64.9	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

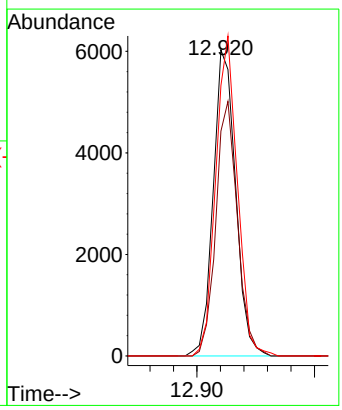
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

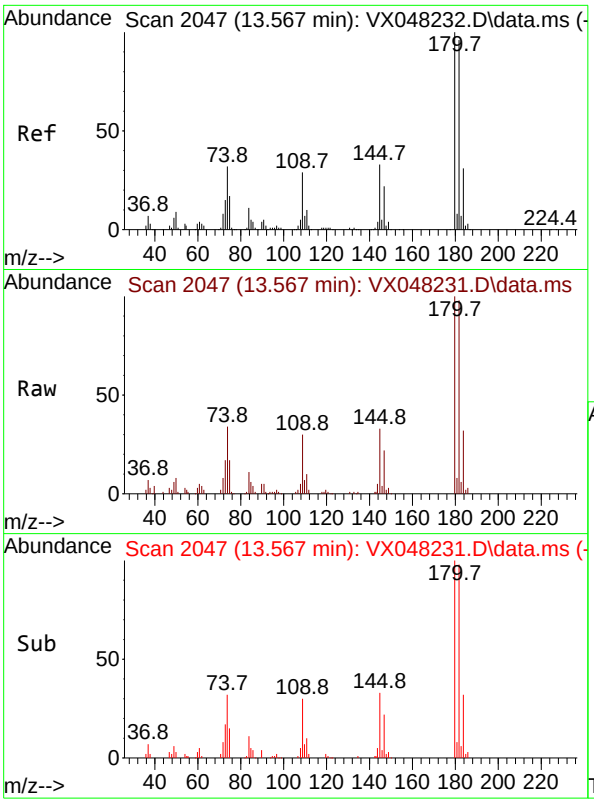


#92
1,2-Dibromo-3-Chloropropane
Concen: 24.372 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 75 Resp: 7983

Ion	Ratio	Lower	Upper
75	100		
155	80.3	42.8	128.4
157	101.4	54.2	162.6

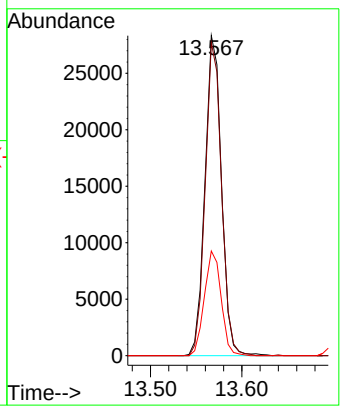




#93
1,2,4-Trichlorobenzene
Concen: 21.473 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:180 Resp: 3546

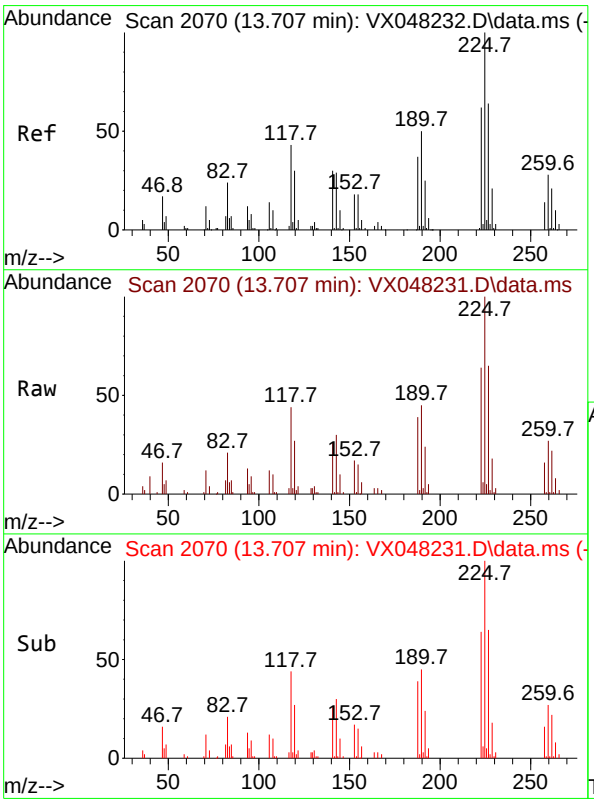
Ion	Ratio	Lower	Upper
180	100		
182	96.3	47.3	142.0
145	33.2	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

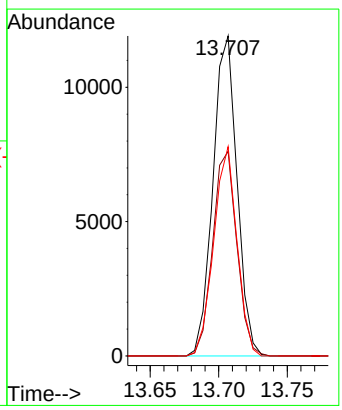
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

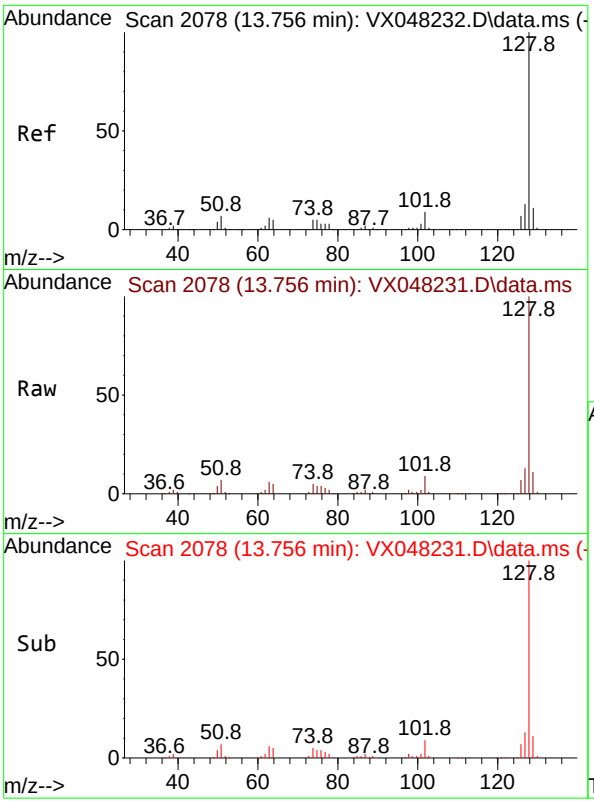


#94
Hexachlorobutadiene
Concen: 22.810 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:225 Resp: 14529

Ion	Ratio	Lower	Upper
225	100		
223	64.3	32.6	97.7
227	63.2	32.5	97.4





#95
Naphthalene
Concen: 24.073 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

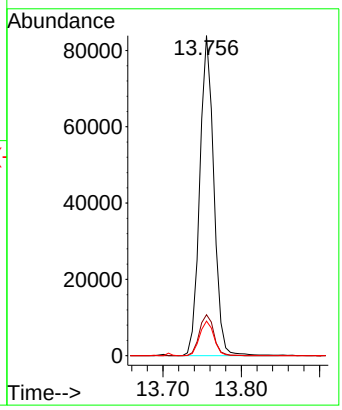
Tgt Ion:128 Resp: 10480

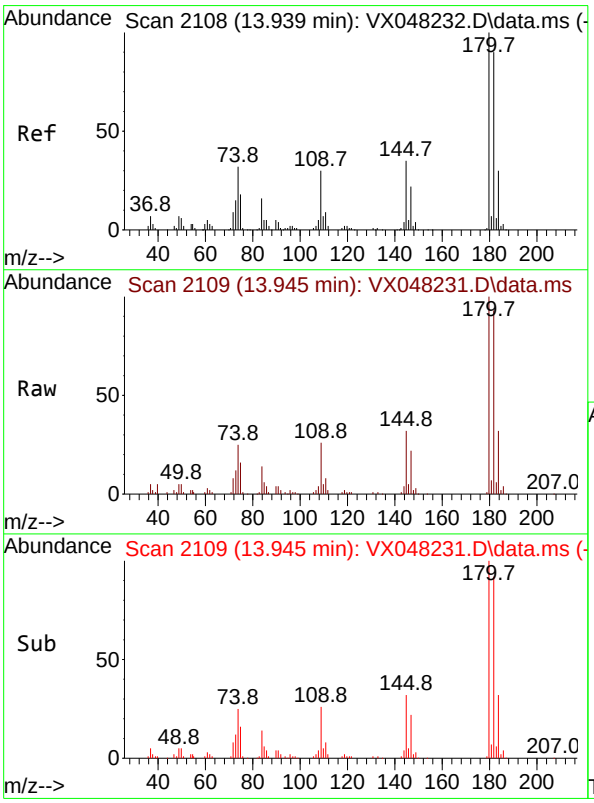
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.2	15.4
129	11.0	8.6	12.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

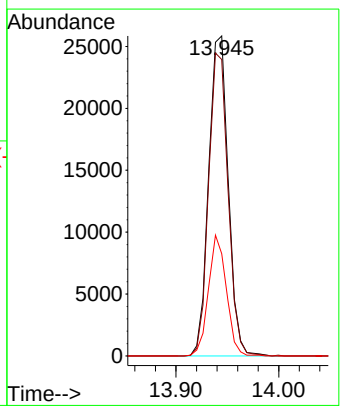




#96
1,2,3-Trichlorobenzene
Concen: 22.493 ug/l
RT: 13.945 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:180 Resp: 34276

Ion	Ratio	Lower	Upper
180	100		
182	94.0	46.6	139.7
145	34.6	16.9	50.7



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048232.D
Acq On : 20 Oct 2025 12:01
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 12:35:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 12:35:14 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	124491	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	201906	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	184494	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	92693	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	84951	44.048	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 88.100%			
35) Dibromofluoromethane	5.379	113	66593	47.523	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.040%			
50) Toluene-d8	8.635	98	239295	47.402	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 94.800%			
62) 4-Bromofluorobenzene	11.061	95	89579	48.719	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 97.440%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	60172	46.052	ug/l	98
3) Chloromethane	1.301	50	55934	35.336	ug/l	100
4) Vinyl Chloride	1.380	62	51819	31.067	ug/l	99
5) Bromomethane	1.618	94	35101	31.646	ug/l	98
6) Chloroethane	1.697	64	30718	28.940	ug/l	95
7) Trichlorofluoromethane	1.898	101	100423	38.358	ug/l	99
8) Diethyl Ether	2.136	74	27723	31.044	ug/l	87
9) 1,1,2-Trichlorotrifluo...	2.337	101	62391	42.290	ug/l	95
10) Methyl Iodide	2.459	142	82552	46.716	ug/l	99
11) Tert butyl alcohol	2.947	59	38534	301.123	ug/l	99
12) 1,1-Dichloroethene	2.325	96	60330	41.821	ug/l	94
13) Acrolein	2.239	56	40536	150.726	ug/l	100
14) Allyl chloride	2.666	41	100234	38.627	ug/l	97
15) Acrylonitrile	3.056	53	149009	243.004	ug/l	100
16) Acetone	2.374	43	126003	191.520	ug/l	100
17) Carbon Disulfide	2.514	76	179492	40.440	ug/l	99
18) Methyl Acetate	2.703	43	58071	43.336	ug/l	91
19) Methyl tert-butyl Ether	3.111	73	212092	48.809	ug/l	96
20) Methylene Chloride	2.788	84	68663	42.841	ug/l	94
21) trans-1,2-Dichloroethene	3.093	96	66608	44.631	ug/l	96
22) Diisopropyl ether	3.757	45	206901	40.720	ug/l	91
23) Vinyl Acetate	3.715	43	839370	220.927	ug/l	97
24) 1,1-Dichloroethane	3.611	63	121657	42.204	ug/l	99
25) 2-Butanone	4.544	43	175075	228.411	ug/l	93
26) 2,2-Dichloropropane	4.471	77	109062	44.264	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	77911	43.988	ug/l	98
28) Bromochloromethane	4.885	49	54919	41.331	ug/l	85
29) Tetrahydrofuran	4.989	42	106381	236.335	ug/l	93
30) Chloroform	5.087	83	130274	42.925	ug/l	96
31) Cyclohexane	5.465	56	102251	43.351	ug/l	92
32) 1,1,1-Trichloroethane	5.373	97	121090	48.560	ug/l	99
36) 1,1-Dichloropropene	5.684	75	87493	44.323	ug/l	98
37) Ethyl Acetate	4.702	43	74261	47.073	ug/l	97
38) Carbon Tetrachloride	5.666	117	111708	49.302	ug/l	98
39) Methylcyclohexane	7.367	83	109077	49.008	ug/l	94
40) Benzene	6.025	78	262745	44.825	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048232.D
Acq On : 20 Oct 2025 12:01
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 12:35:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 12:35:14 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.904	41	41293	48.874	ug/l		96
42) 1,2-Dichloroethane	6.074	62	100937	48.064	ug/l		99
43) Isopropyl Acetate	6.324	43	128290	48.444	ug/l		96
44) Trichloroethene	7.111	130	70313	47.597	ug/l		98
45) 1,2-Dichloropropane	7.415	63	64895	43.746	ug/l		99
46) Dibromomethane	7.568	93	49874	46.726	ug/l		94
47) Bromodichloromethane	7.806	83	108671	47.107	ug/l		97
48) Methyl methacrylate	7.678	41	65057	47.990	ug/l		94
49) 1,4-Dioxane	7.647	88	17905	1467.288	ug/l		90
51) 4-Methyl-2-Pentanone	8.555	43	380665	258.320	ug/l		95
52) Toluene	8.702	92	173942	49.373	ug/l		100
53) t-1,3-Dichloropropene	8.964	75	109960	50.880	ug/l		99
54) cis-1,3-Dichloropropene	8.354	75	115534	49.046	ug/l		93
55) 1,1,2-Trichloroethane	9.135	97	64737	49.248	ug/l		96
56) Ethyl methacrylate	9.104	69	98851	55.290	ug/l		94
57) 1,3-Dichloropropane	9.293	76	110709	48.206	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	262387	285.817	ug/l		95
59) 2-Hexanone	9.415	43	269143	261.113	ug/l		96
60) Dibromochloromethane	9.506	129	85760	52.123	ug/l		98
61) 1,2-Dibromoethane	9.592	107	69022	51.208	ug/l		99
64) Tetrachloroethene	9.257	164	60510	46.776	ug/l		96
65) Chlorobenzene	10.061	112	192841	47.805	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.147	131	71930	49.482	ug/l		98
67) Ethyl Benzene	10.177	91	336660	48.680	ug/l		99
68) m/p-Xylenes	10.287	106	253662	98.455	ug/l		100
69) o-Xylene	10.622	106	122582	50.542	ug/l		98
70) Styrene	10.640	104	210861	50.508	ug/l		100
71) Bromoform	10.781	173	56874	53.279	ug/l	#	100
73) Isopropylbenzene	10.945	105	317974	49.321	ug/l		100
74) N-amyl acetate	10.823	43	115683	48.098	ug/l		96
75) 1,1,2,2-Tetrachloroethane	11.195	83	87705	48.020	ug/l		99
76) 1,2,3-Trichloropropane	11.220	75	68104m	48.115	ug/l		
77) Bromobenzene	11.183	156	79543	49.303	ug/l		94
78) n-propylbenzene	11.287	91	372312	47.621	ug/l		98
79) 2-Chlorotoluene	11.348	91	222217	47.045	ug/l		98
80) 1,3,5-Trimethylbenzene	11.433	105	265174	50.108	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	29295	50.678	ug/l		98
82) 4-Chlorotoluene	11.439	91	267236	48.142	ug/l		98
83) tert-Butylbenzene	11.695	119	270202	50.539	ug/l		96
84) 1,2,4-Trimethylbenzene	11.732	105	265485	50.381	ug/l		99
85) sec-Butylbenzene	11.872	105	322219	49.298	ug/l		100
86) p-Isopropyltoluene	11.994	119	276821	50.246	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	143699	47.627	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	146196	46.744	ug/l		99
89) n-Butylbenzene	12.317	91	243063	47.367	ug/l		99
90) Hexachloroethane	12.518	117	52735	45.350	ug/l		96
91) 1,2-Dichlorobenzene	12.317	146	138489	48.582	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.927	75	18059	54.111	ug/l		99
93) 1,2,4-Trichlorobenzene	13.567	180	88920	52.839	ug/l		99
94) Hexachlorobutadiene	13.707	225	34615	53.334	ug/l		97
95) Naphthalene	13.756	128	257281	57.999	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	84279	54.281	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048232.D
Acq On : 20 Oct 2025 12:01
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 12:35:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 12:35:14 2025
Response via : Initial Calibration

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

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

ICAL Form

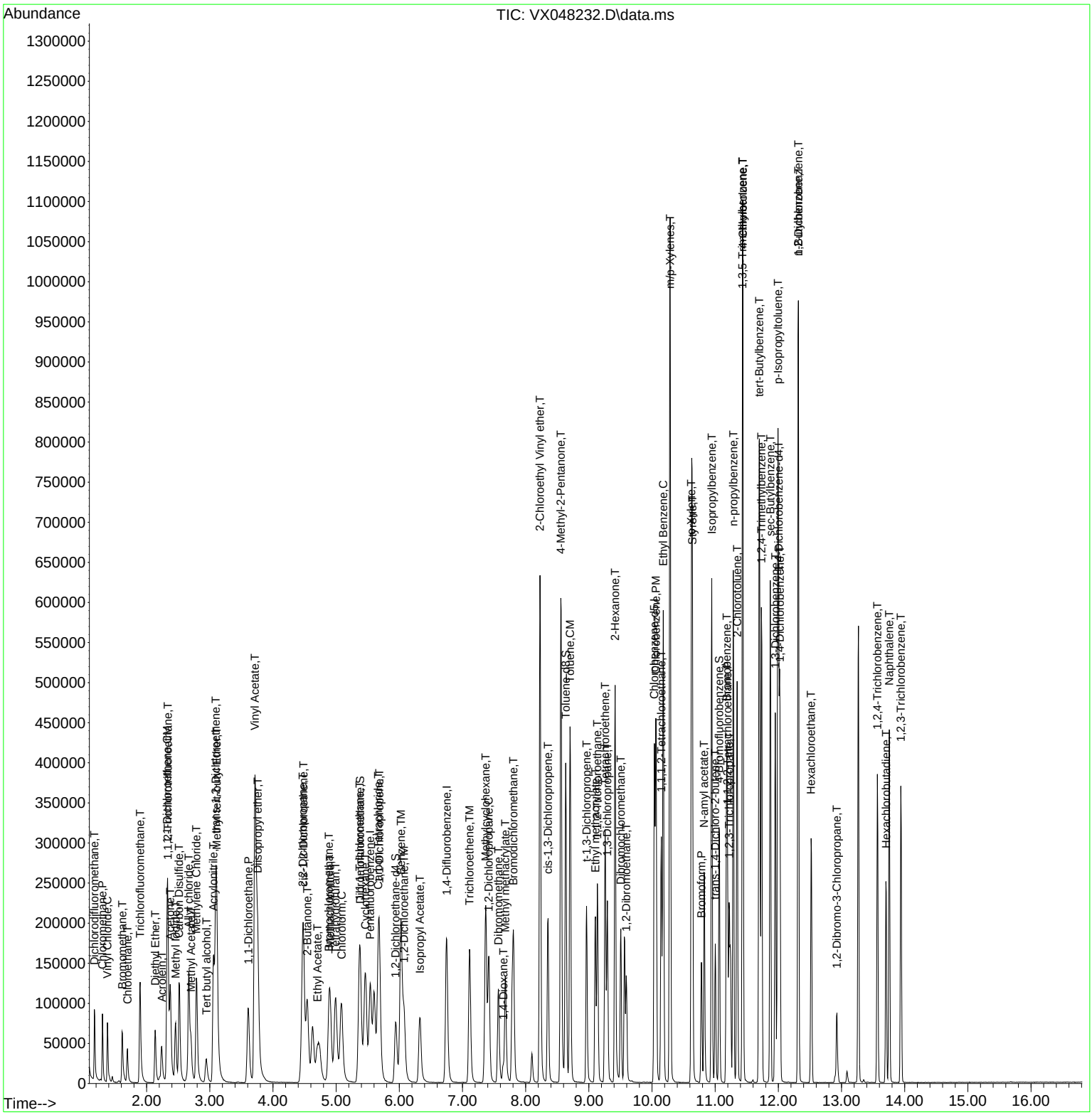
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048232.D
Acq On : 20 Oct 2025 12:01
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

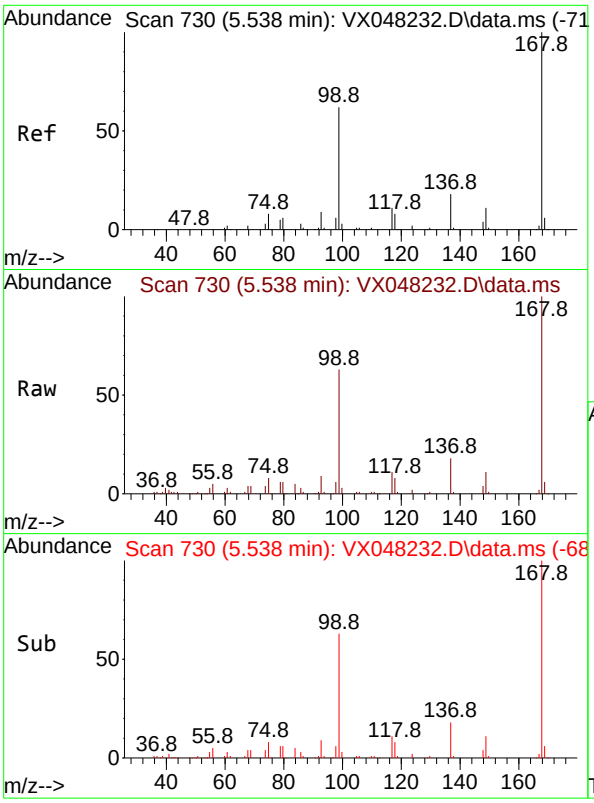
Quant Time: Oct 20 12:35:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 12:35:14 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

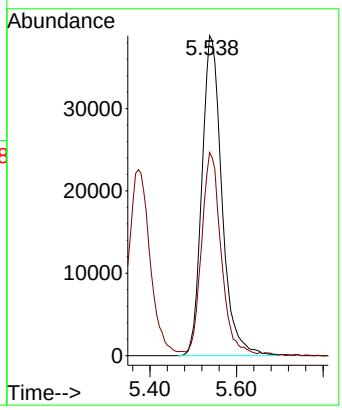




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:168 Resp: 12449

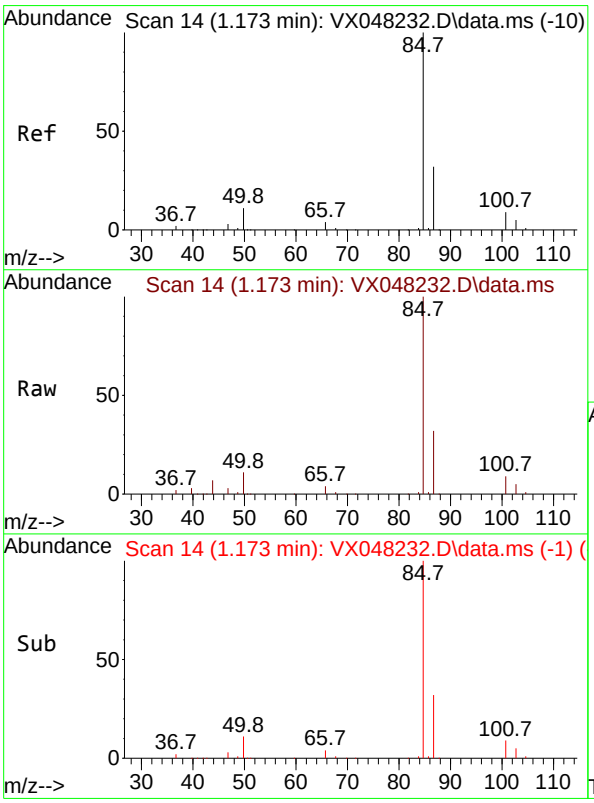
Ion	Ratio	Lower	Upper
168	100		
99	63.3	46.4	69.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

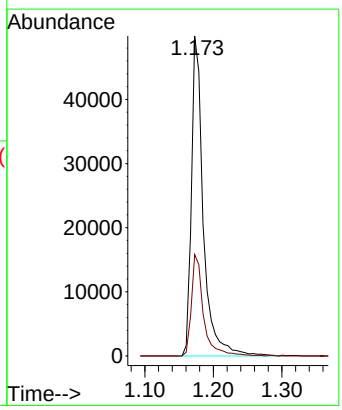
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

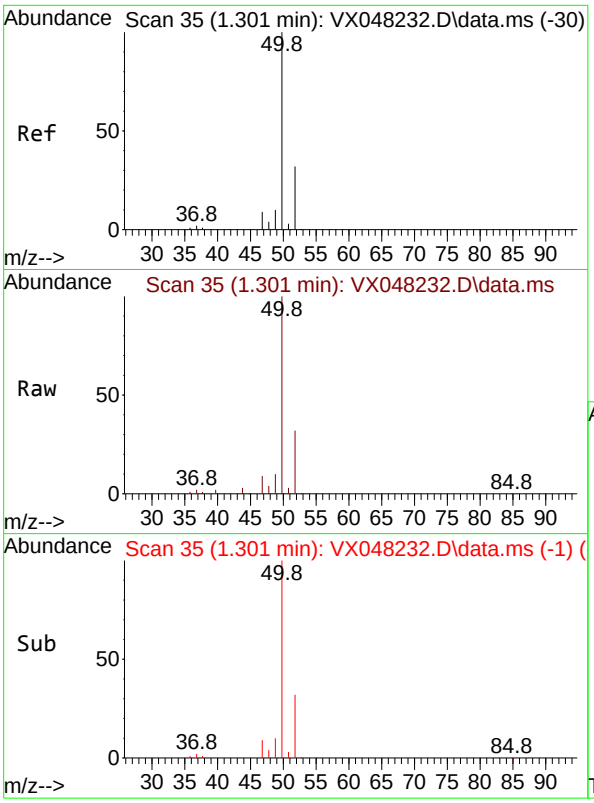


#2
Dichlorodifluoromethane
Concen: 46.052 ug/l
RT: 1.173 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 85 Resp: 60172

Ion	Ratio	Lower	Upper
85	100		
87	31.7	15.3	45.9

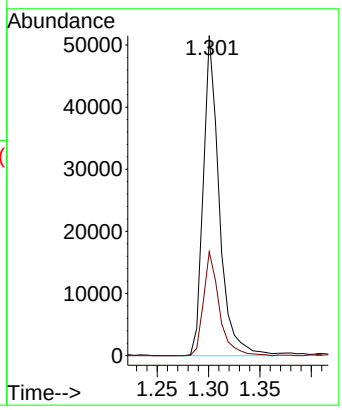




#3
Chloromethane
Concen: 35.336 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 50 Resp: 5593

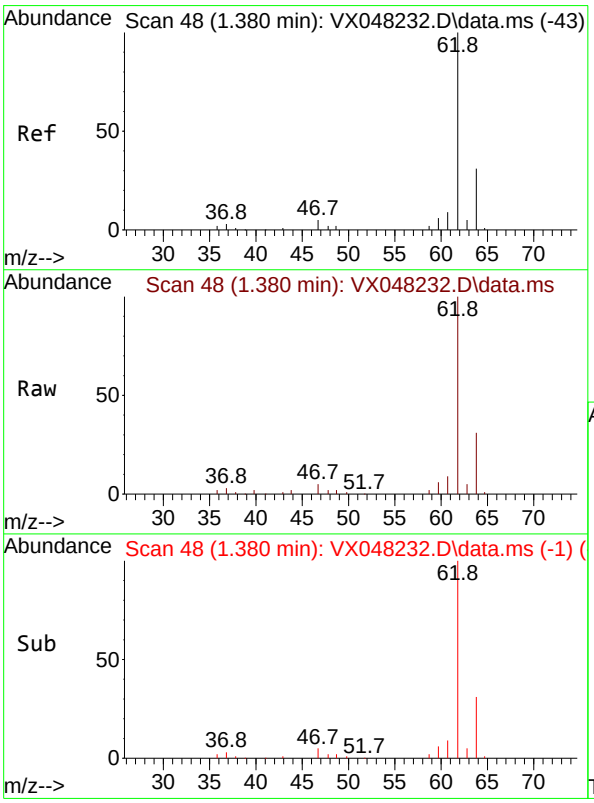
Ion	Ratio	Lower	Upper
50	100		
52	32.5	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

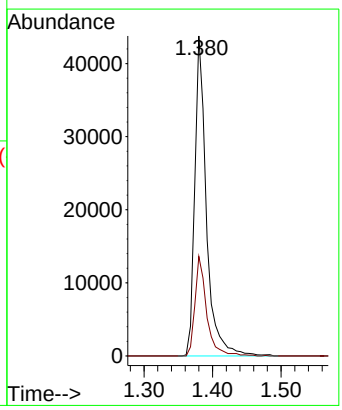
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

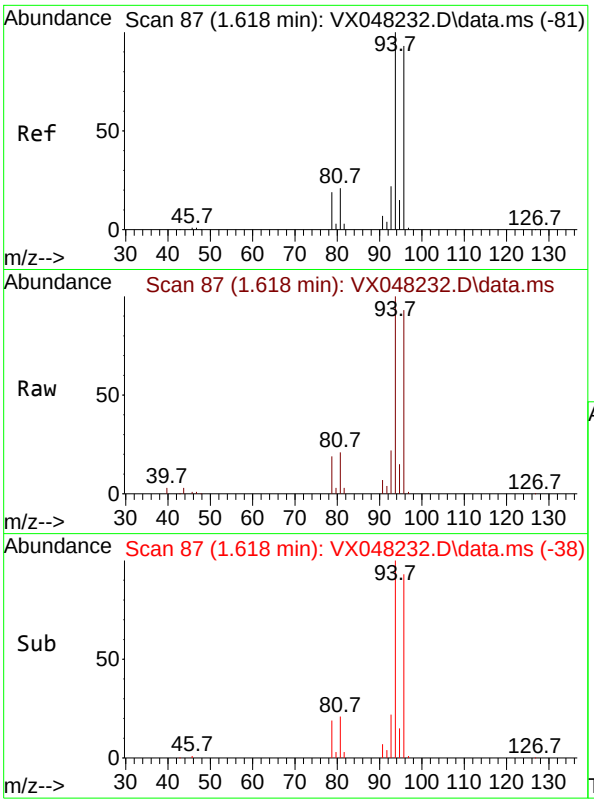


#4
Vinyl Chloride
Concen: 31.067 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 62 Resp: 51819

Ion	Ratio	Lower	Upper
62	100		
64	31.1	25.1	37.7

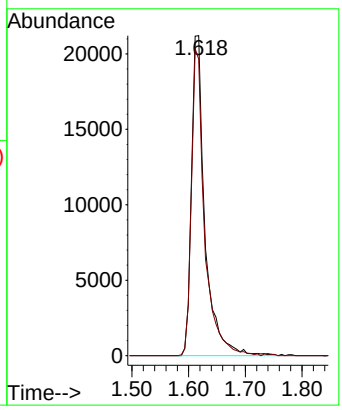




#5
Bromomethane
Concen: 31.646 ug/l
RT: 1.618 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 94 Resp: 3510

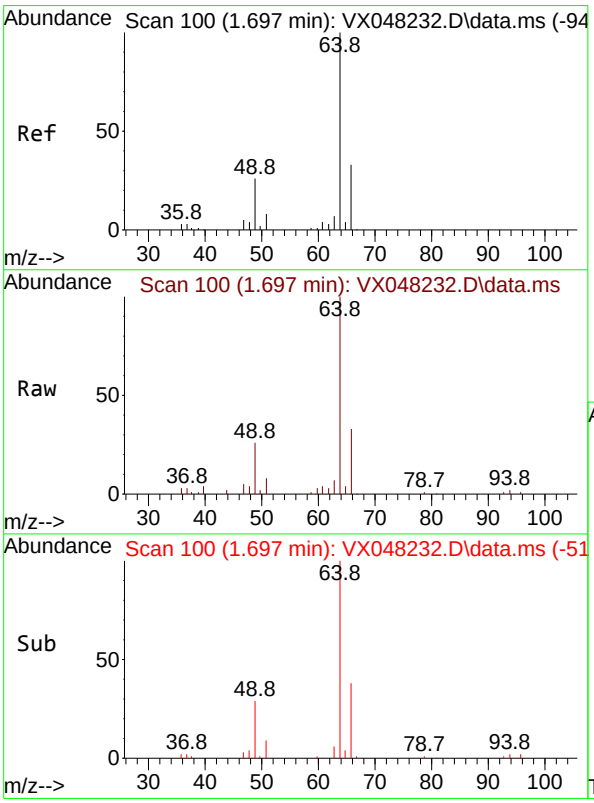
Ion	Ratio	Lower	Upper
94	100		
96	92.7	76.0	114.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

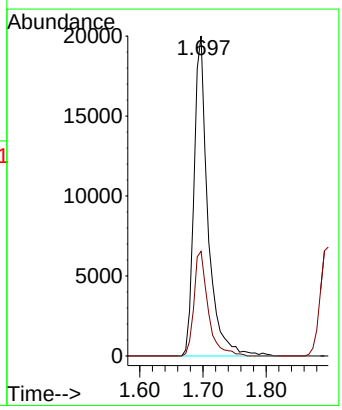
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

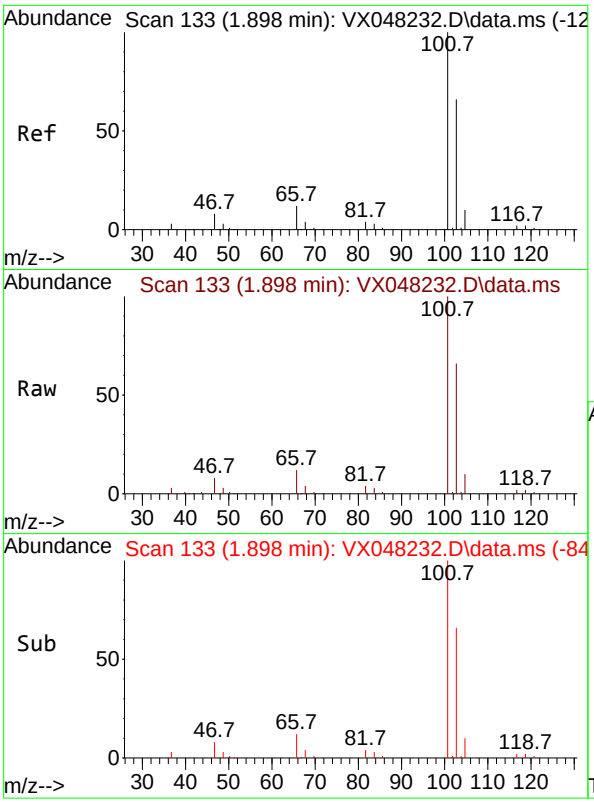


#6
Chloroethane
Concen: 28.940 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 64 Resp: 30718

Ion	Ratio	Lower	Upper
64	100		
66	32.7	23.9	35.9





#7
Trichlorofluoromethane
Concen: 38.358 ug/l
RT: 1.898 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

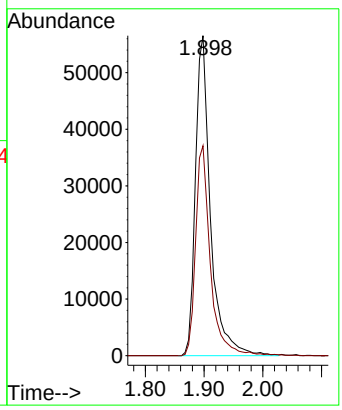
Tgt Ion:101 Resp: 10042

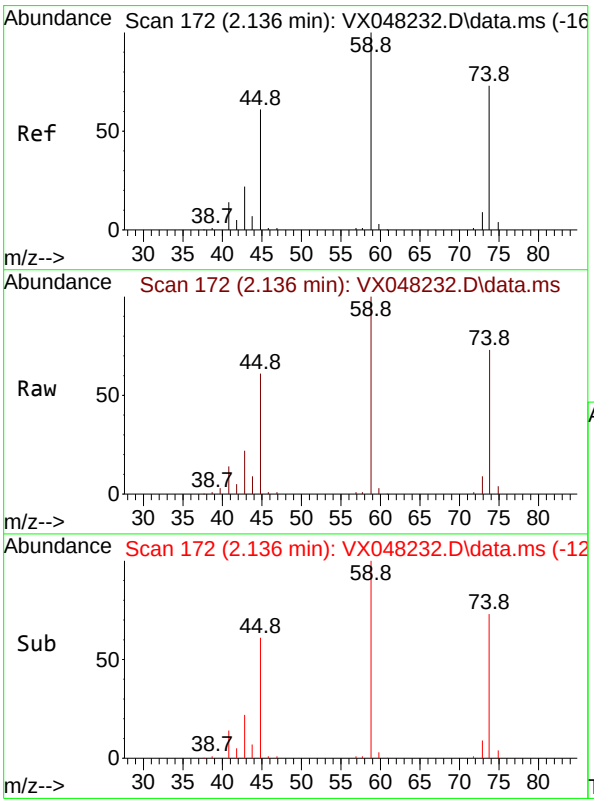
Ion	Ratio	Lower	Upper
101	100		
103	65.6	51.6	77.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

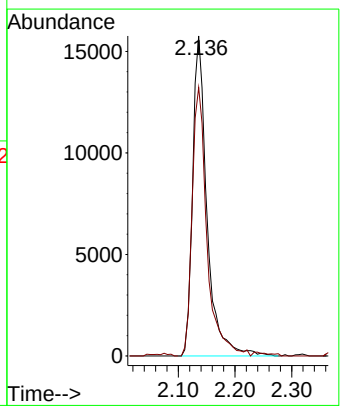


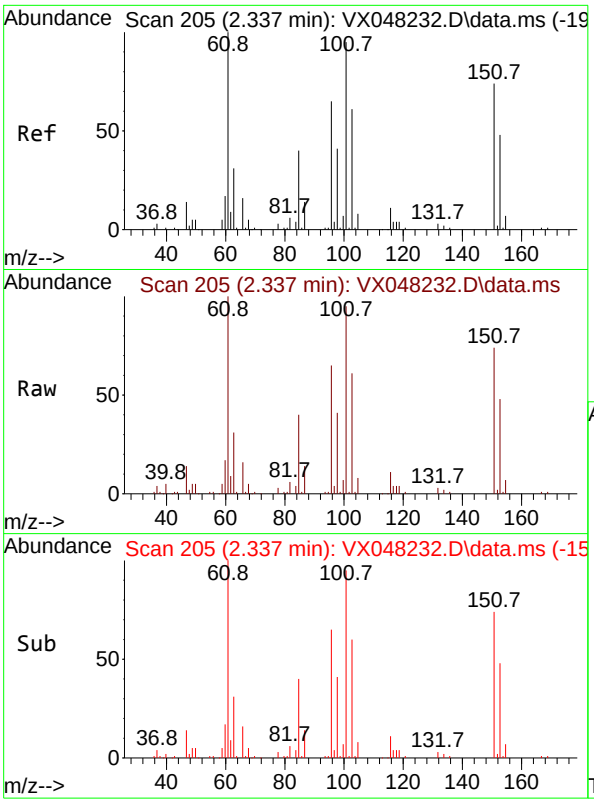


#8
Diethyl Ether
Concen: 31.044 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 74 Resp: 27723

Ion	Ratio	Lower	Upper
74	100		
45	86.5	50.0	149.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 42.290 ug/l
RT: 2.337 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

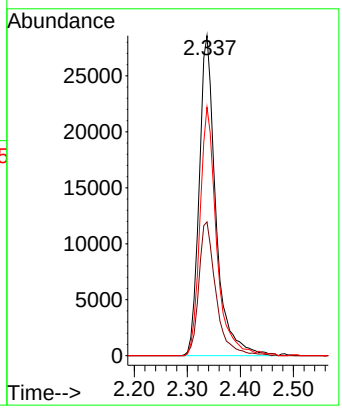
Tgt Ion:101 Resp: 6239

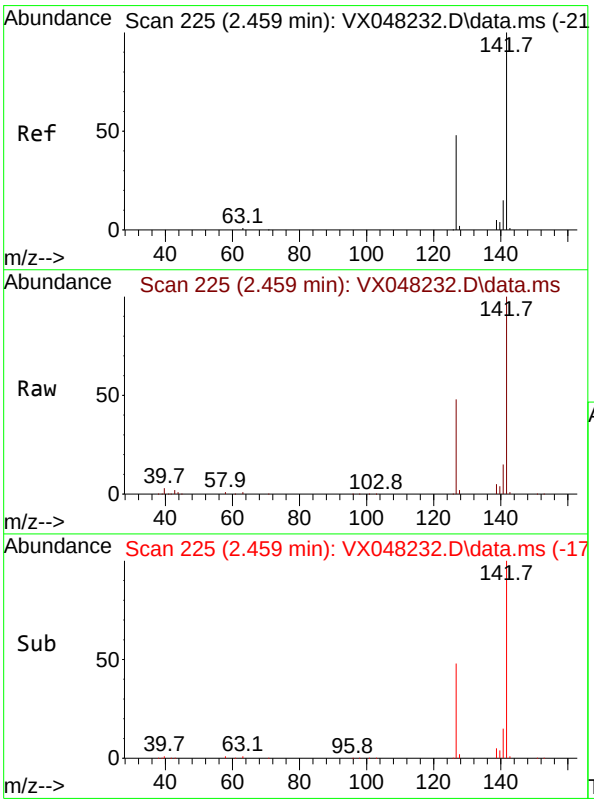
Ion	Ratio	Lower	Upper
101	100		
85	43.2	35.6	53.4
151	77.9	58.0	87.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

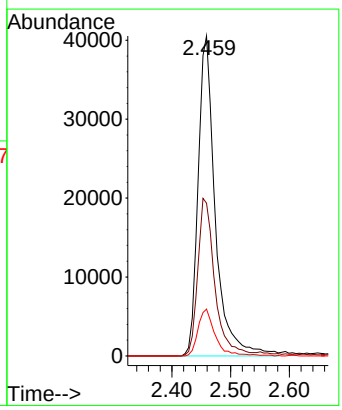


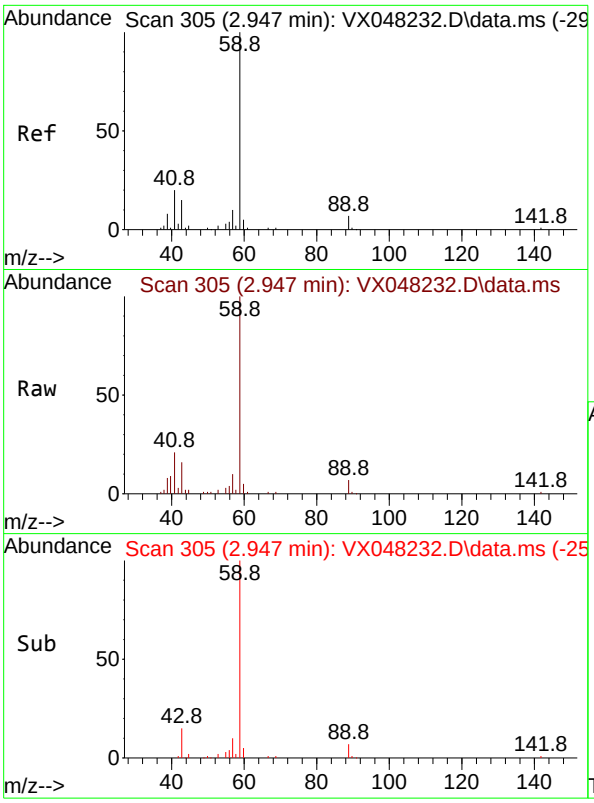


#10
Methyl Iodide
Concen: 46.716 ug/l
RT: 2.459 min Scan# 225
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:142 Resp: 82552

Ion	Ratio	Lower	Upper
142	100		
127	48.9	38.5	57.7
141	14.7	11.6	17.4

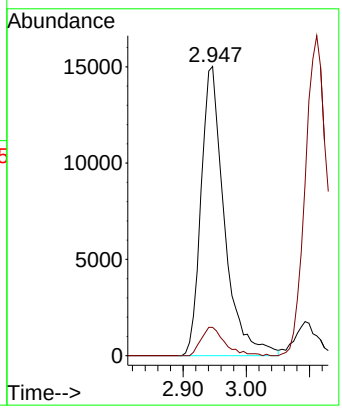




#11
Tert butyl alcohol
Concen: 301.123 ug/l
RT: 2.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 59 Resp: 3853

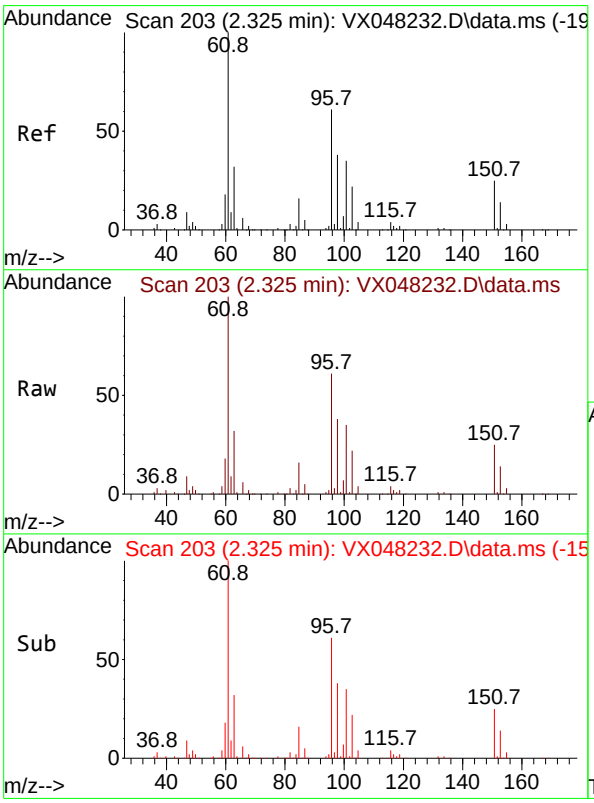
Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.2	12.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

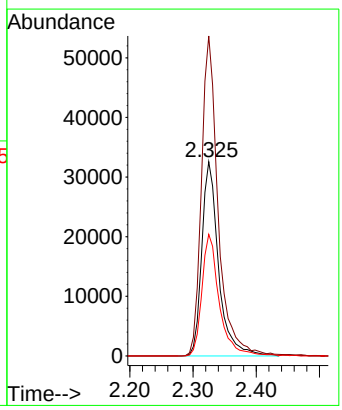
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

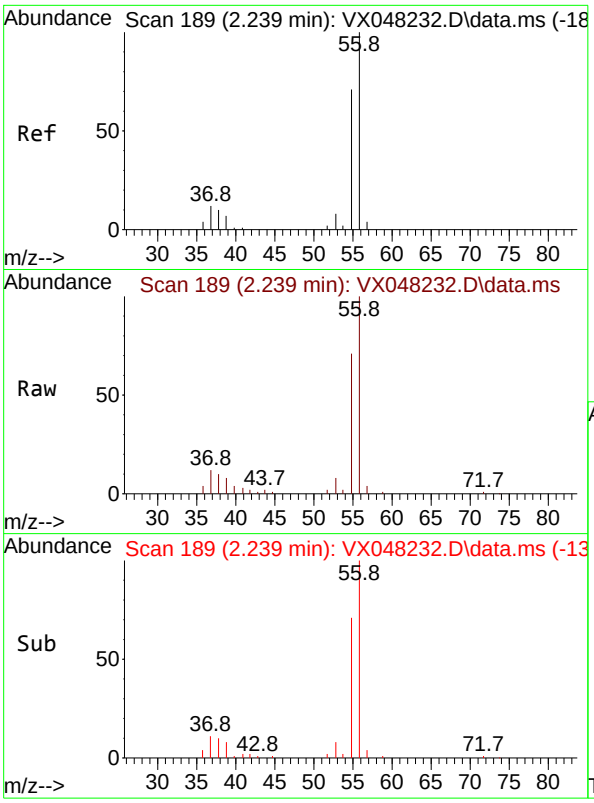


#12
1,1-Dichloroethene
Concen: 41.821 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 96 Resp: 60330

Ion	Ratio	Lower	Upper
96	100		
61	164.7	139.0	208.6
98	62.6	52.4	78.6

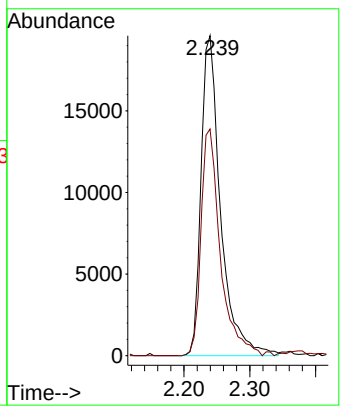




#13
Acrolein
Concen: 150.726 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 56 Resp: 4053

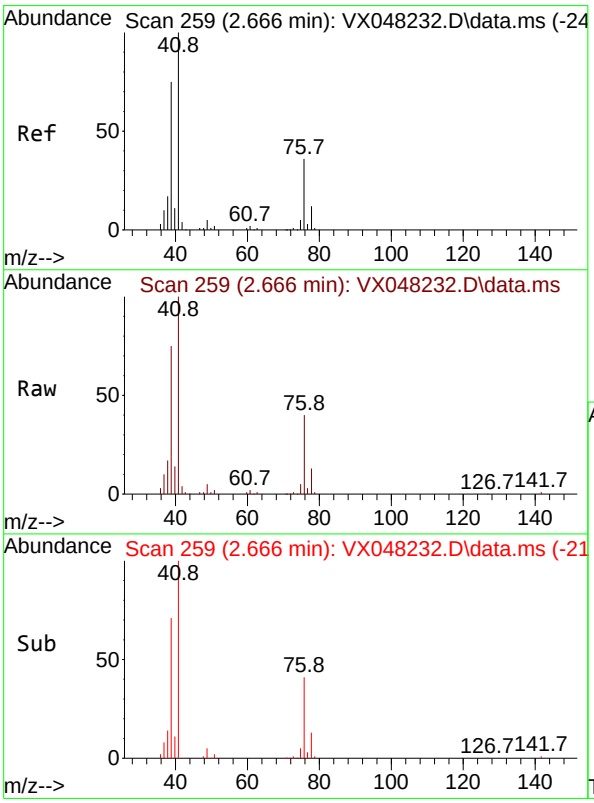
Ion	Ratio	Lower	Upper
56	100		
55	69.8	56.1	84.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

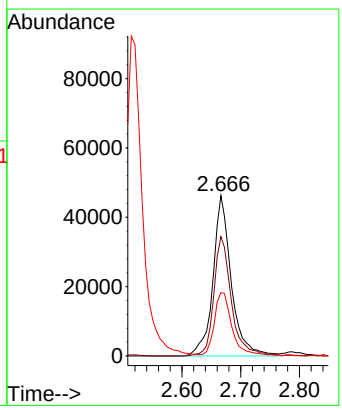
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

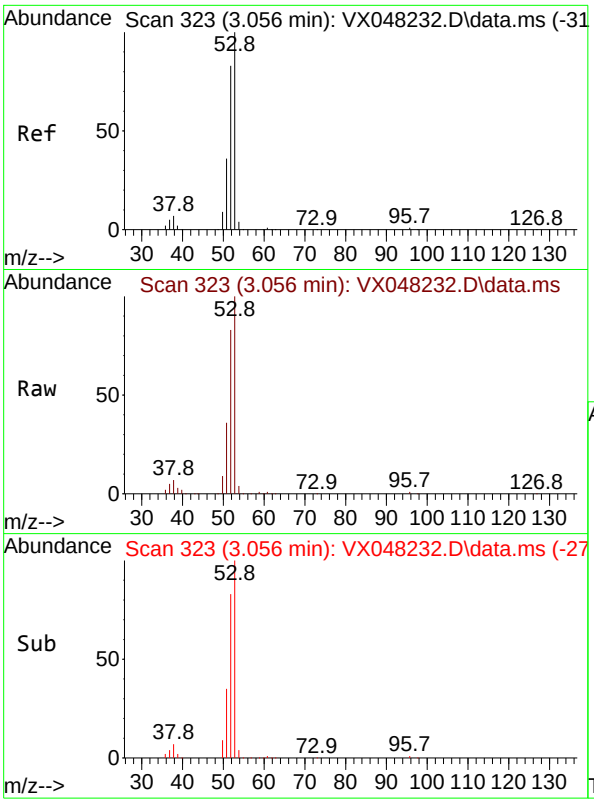


#14
Allyl chloride
Concen: 38.627 ug/l
RT: 2.666 min Scan# 259
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 41 Resp: 100234

Ion	Ratio	Lower	Upper
41	100		
39	71.0	56.0	84.0
76	38.6	27.5	41.3

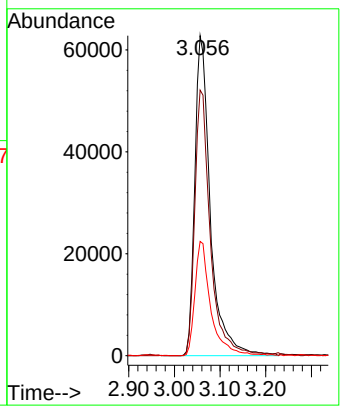




#15
Acrylonitrile
Concen: 243.004 ug/l
RT: 3.056 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 53 Resp: 14900

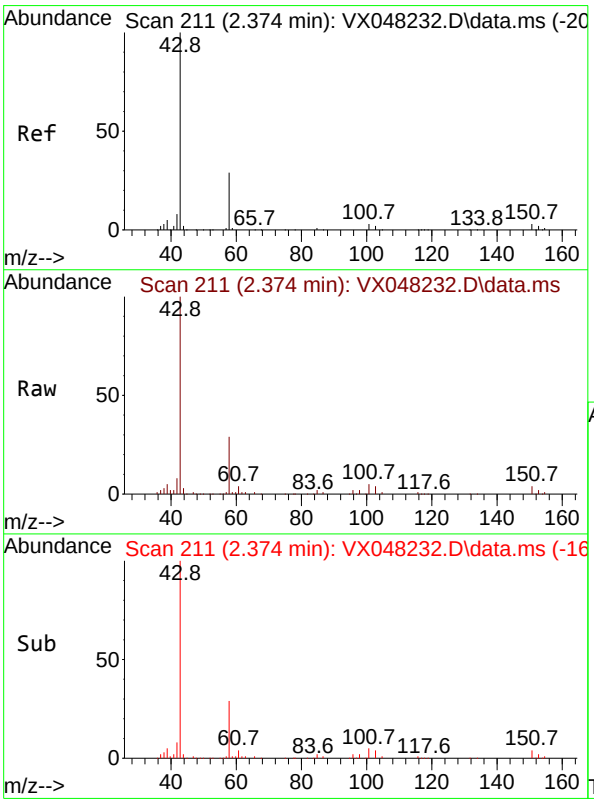
Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.1	99.1
51	36.6	29.0	43.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

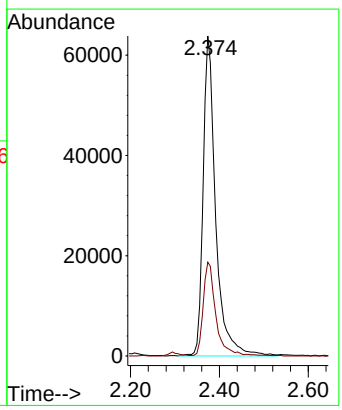
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

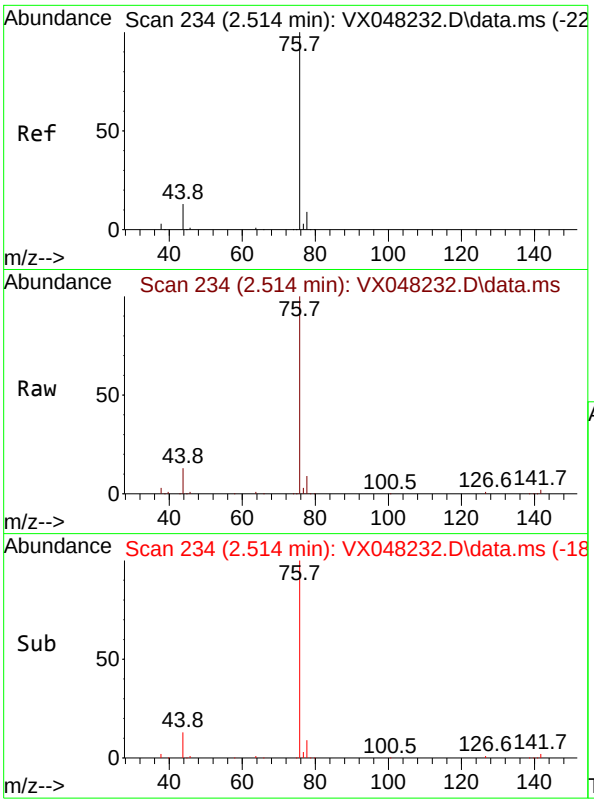


#16
Acetone
Concen: 191.520 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 43 Resp: 126003

Ion	Ratio	Lower	Upper
43	100		
58	29.2	23.4	35.2





#17
Carbon Disulfide
Concen: 40.440 ug/l
RT: 2.514 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

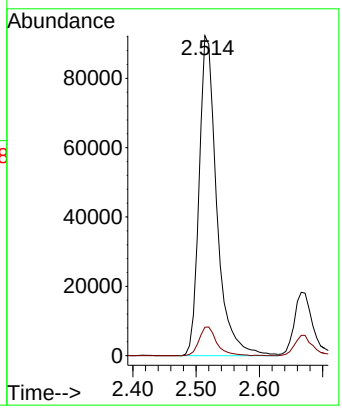
Tgt Ion: 76 Resp: 17949

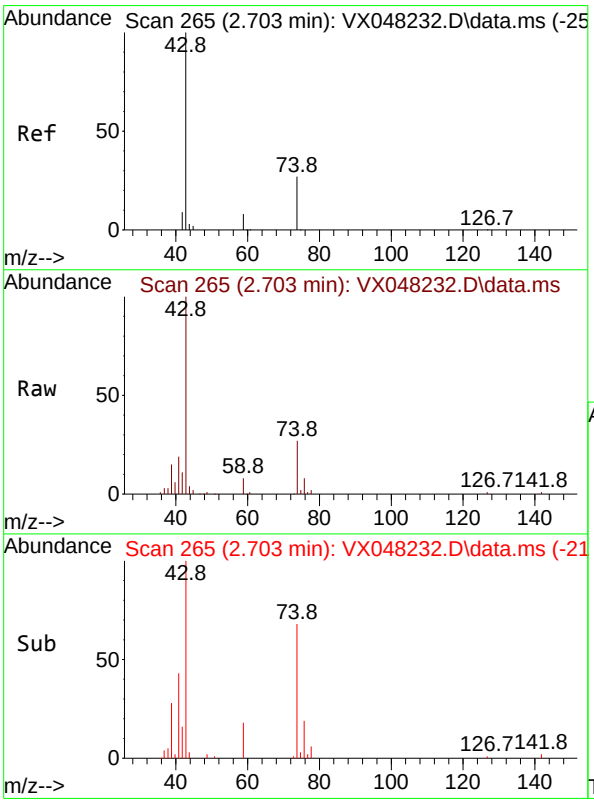
Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.1	10.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

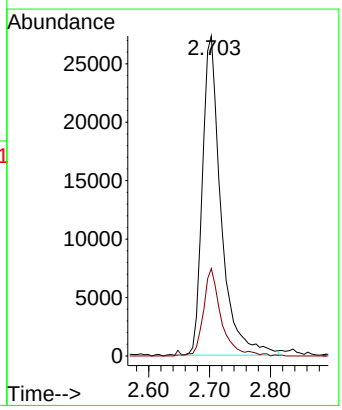


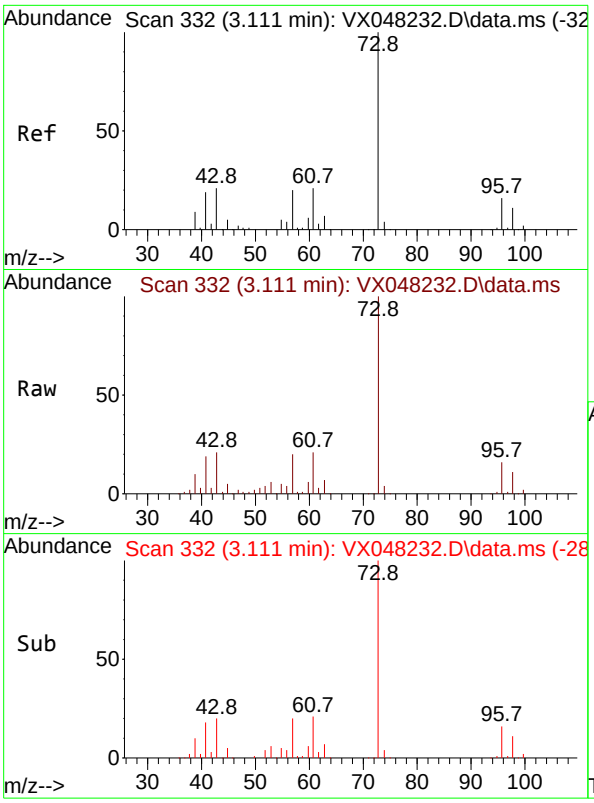


#18
Methyl Acetate
Concen: 43.336 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 43 Resp: 58071

Ion	Ratio	Lower	Upper
43	100		
74	26.0	17.5	26.3

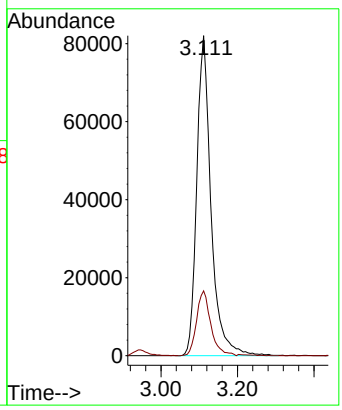




#19
Methyl tert-butyl Ether
Concen: 48.809 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 73 Resp: 21209

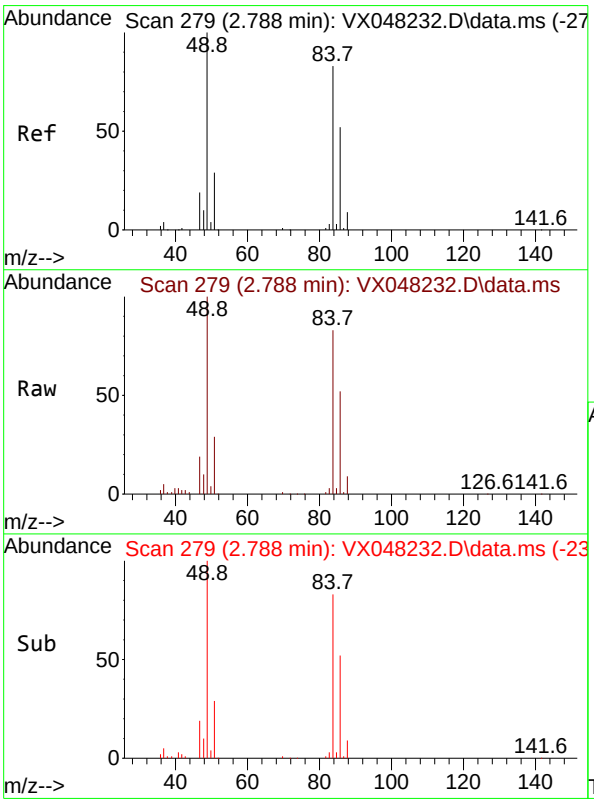
Ion	Ratio	Lower	Upper
73	100		
57	20.3	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

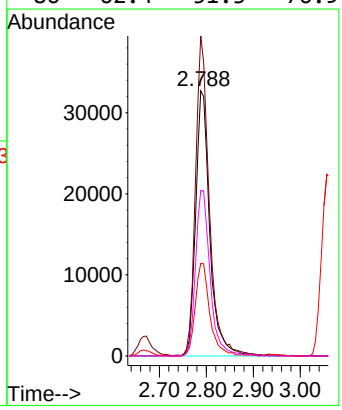
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

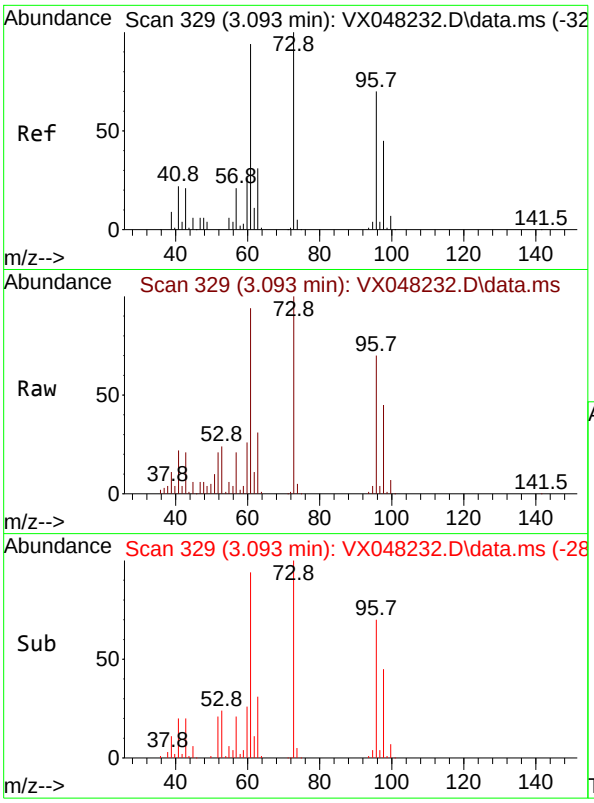


#20
Methylene Chloride
Concen: 42.841 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 84 Resp: 68663

Ion	Ratio	Lower	Upper
84	100		
49	120.4	104.1	156.1
51	35.0	31.3	46.9
86	62.4	51.3	76.9

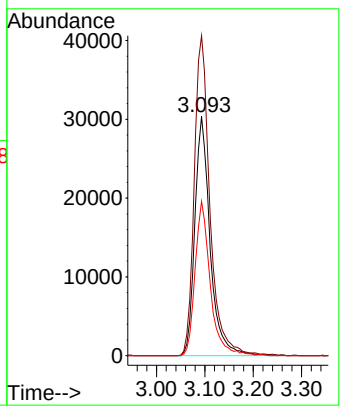




#21
trans-1,2-Dichloroethene
Concen: 44.631 ug/l
RT: 3.093 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 96 Resp: 6660

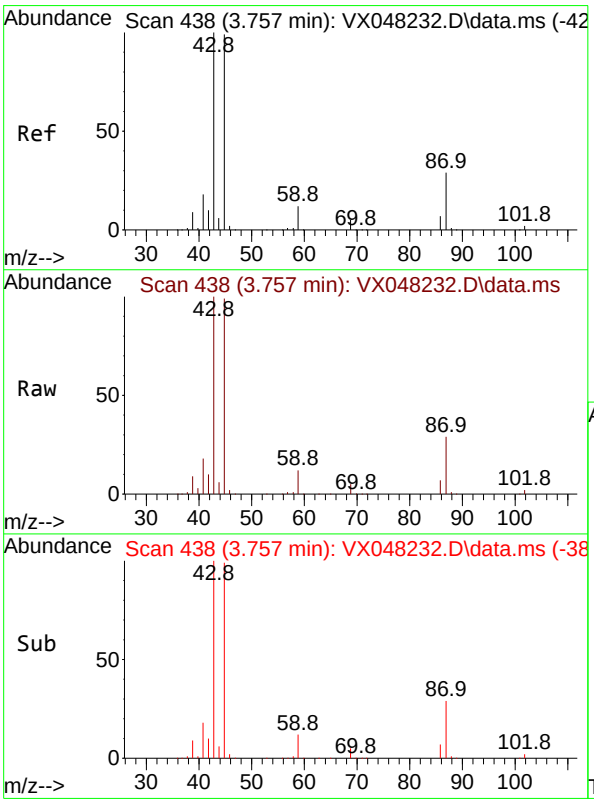
Ion	Ratio	Lower	Upper
96	100		
61	133.8	111.9	167.9
98	64.5	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

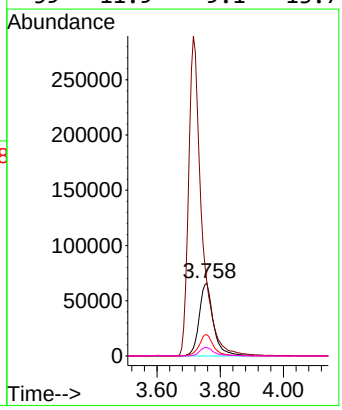
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

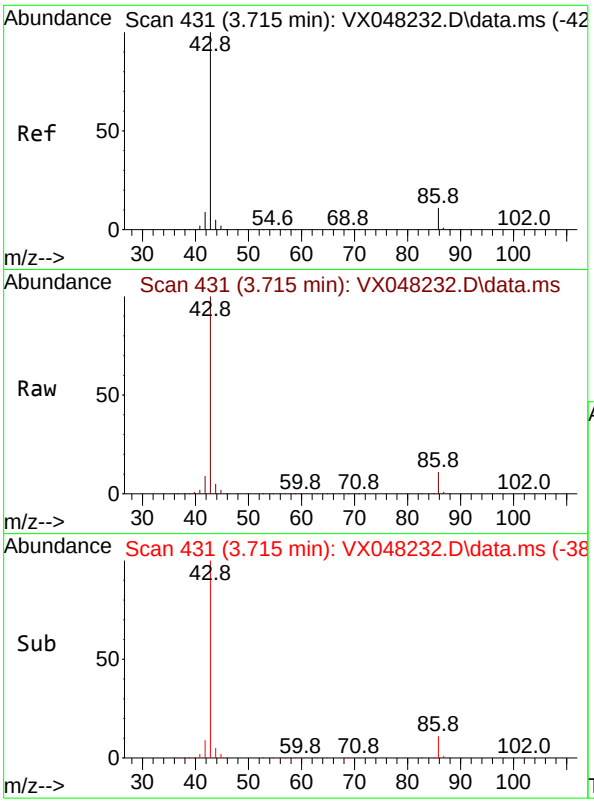


#22
Diisopropyl ether
Concen: 40.720 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 45 Resp: 206901

Ion	Ratio	Lower	Upper
45	100		
43	101.1	89.8	134.8
87	29.3	20.6	31.0
59	11.9	9.1	13.7





#23
Vinyl Acetate
Concen: 220.927 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

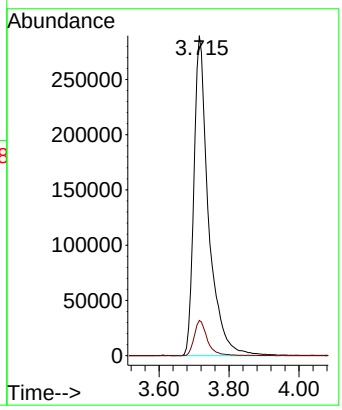
Tgt Ion: 43 Resp: 83937

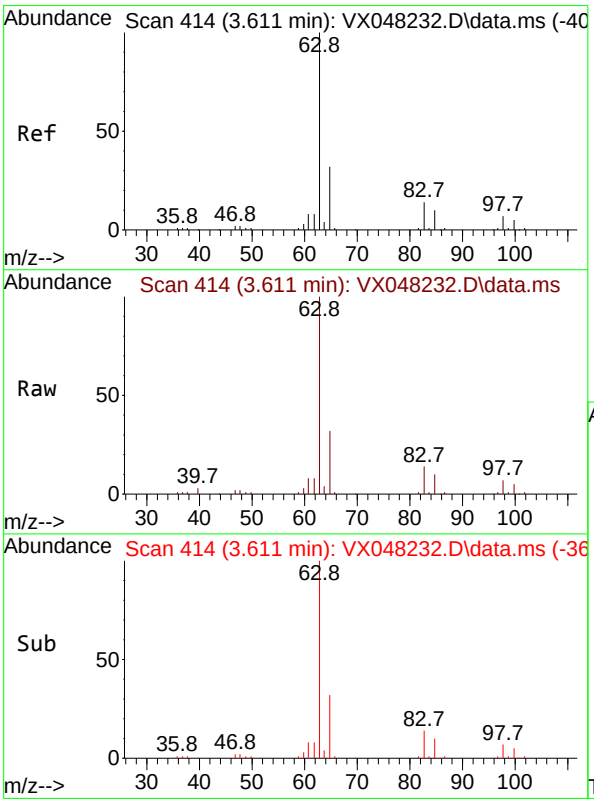
Ion	Ratio	Lower	Upper
43	100		
86	11.0	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

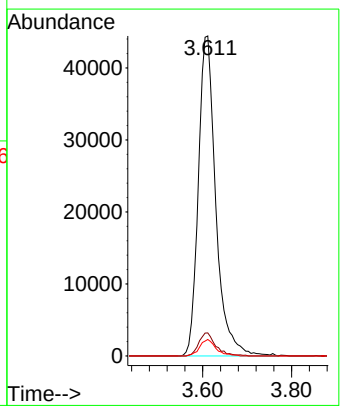


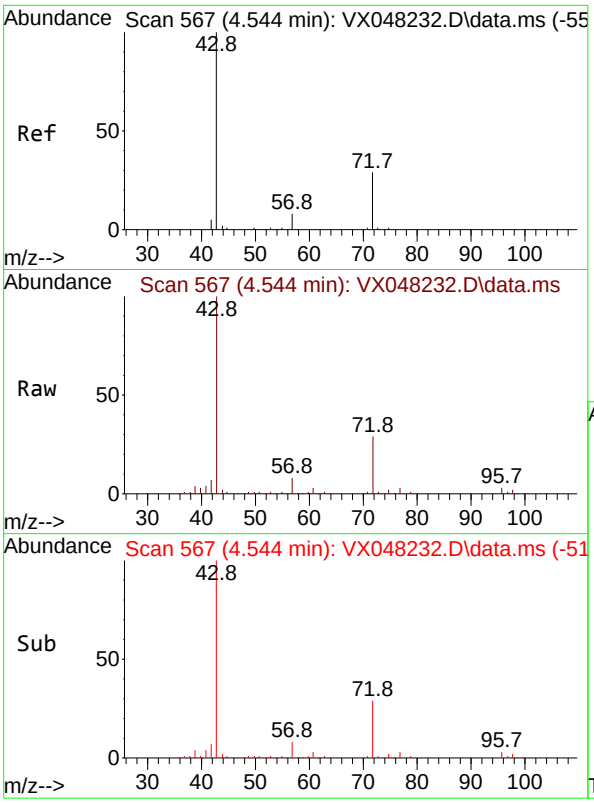


#24
1,1-Dichloroethane
Concen: 42.204 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 63 Resp: 121657

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.5	10.6
100	5.1	2.1	6.3





#25
2-Butanone
Concen: 228.411 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

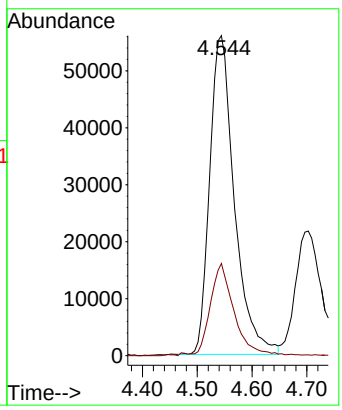
Tgt Ion: 43 Resp: 17507

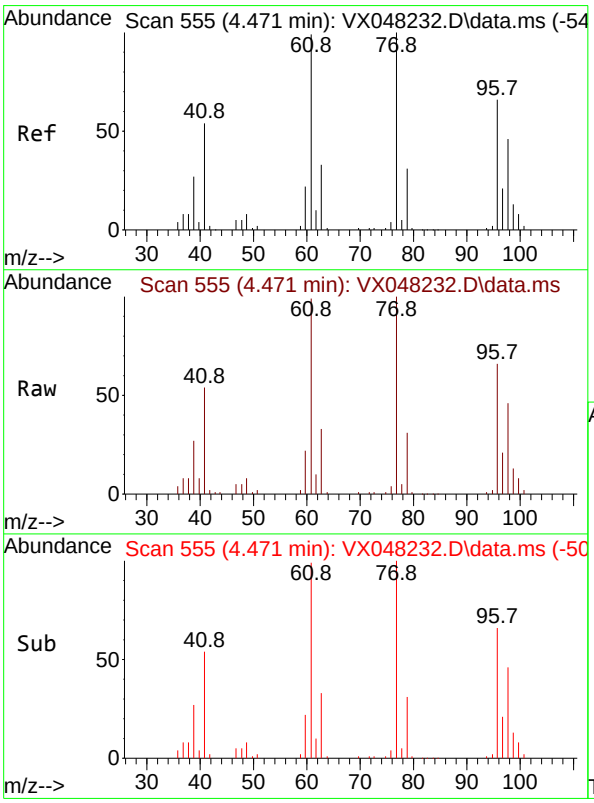
Ion	Ratio	Lower	Upper
43	100		
72	28.6	19.9	29.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

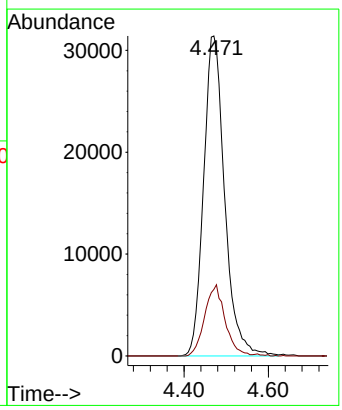


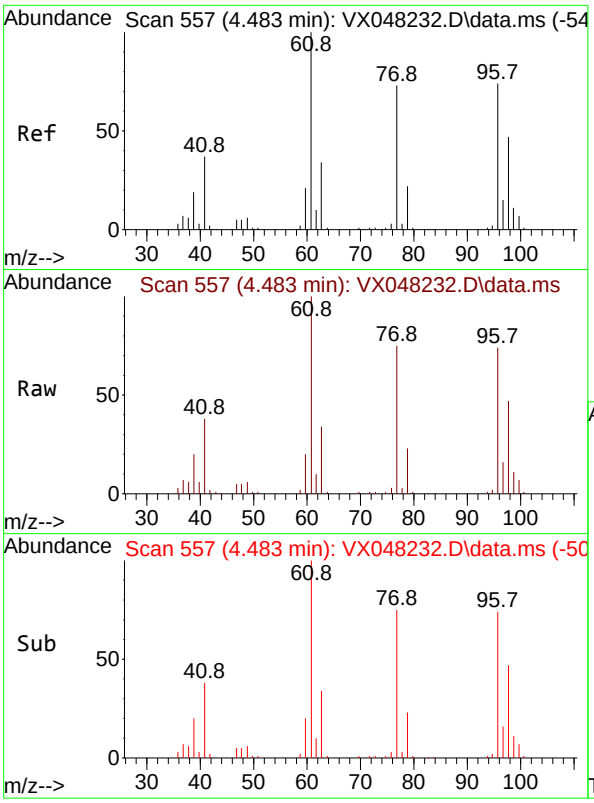


#26
2,2-Dichloropropane
Concen: 44.264 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 77 Resp: 109062

Ion	Ratio	Lower	Upper
77	100		
97	21.5	11.1	33.3





#27
cis-1,2-Dichloroethene
Concen: 43.988 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

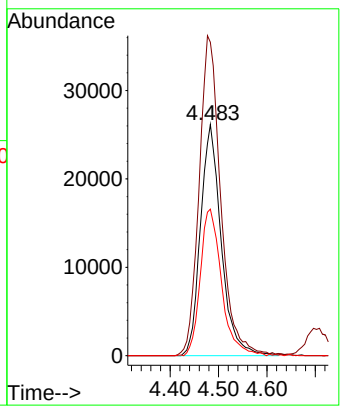
Tgt Ion: 96 Resp: 7791

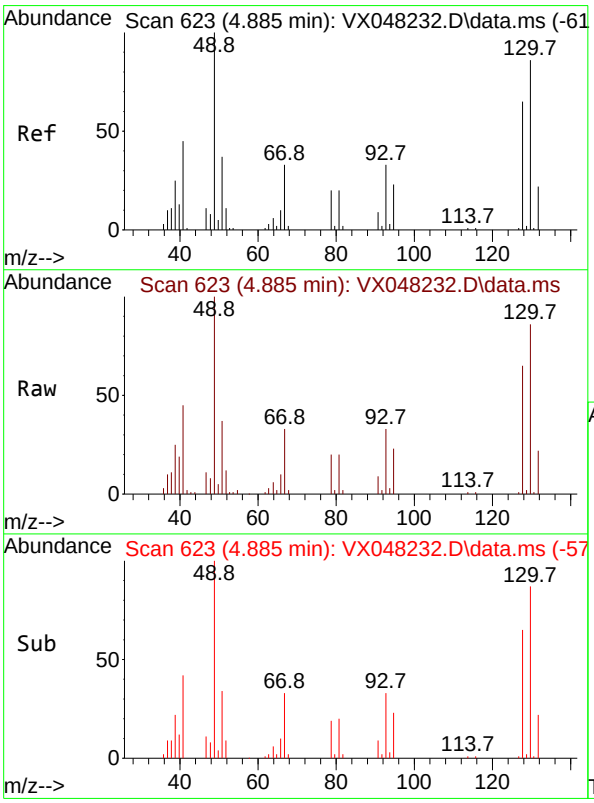
Ion	Ratio	Lower	Upper
96	100		
61	144.4	0.0	294.2
98	64.9	0.0	128.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

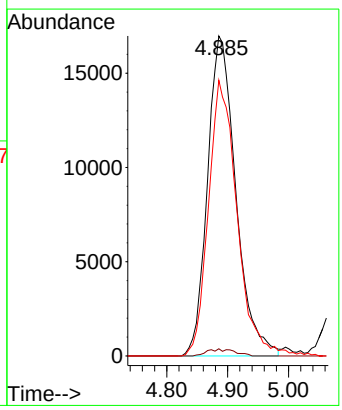


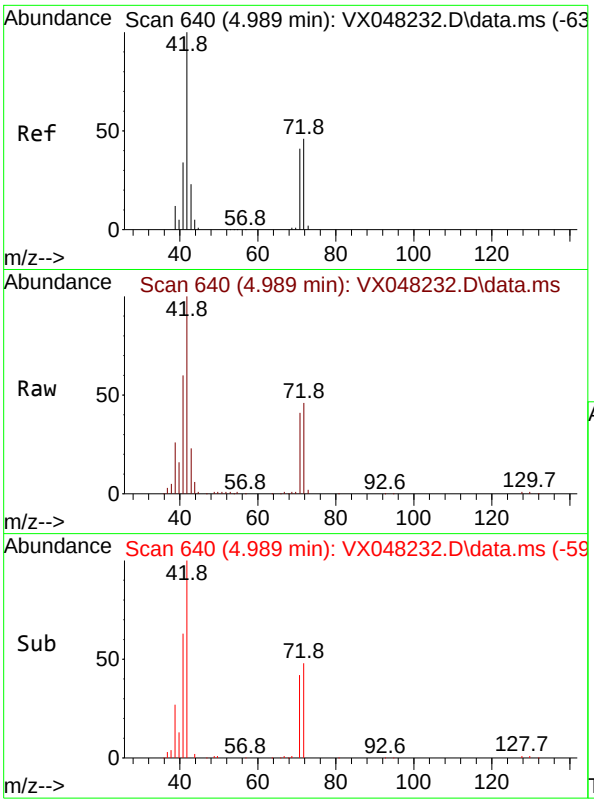


#28
Bromochloromethane
Concen: 41.331 ug/l
RT: 4.885 min Scan# 623
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 49 Resp: 54919

Ion	Ratio	Lower	Upper
49	100		
129	0.8	0.0	4.4
130	86.9	59.3	88.9





#29
Tetrahydrofuran
Concen: 236.335 ug/l
RT: 4.989 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

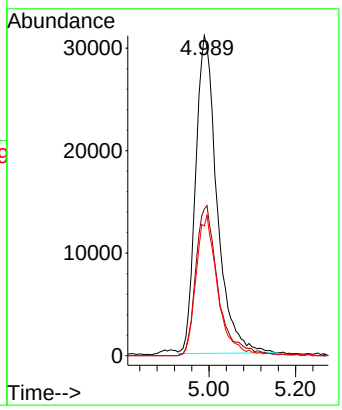
Tgt Ion: 42 Resp: 10638

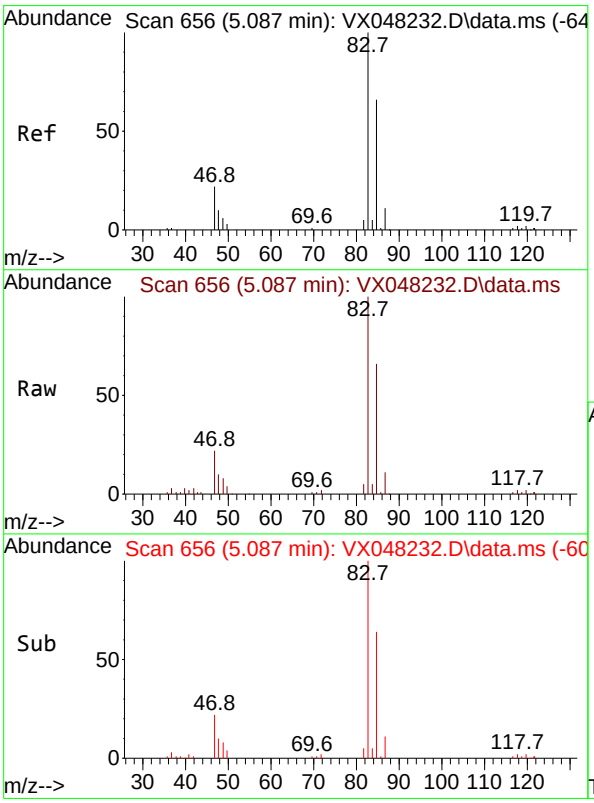
Ion	Ratio	Lower	Upper
42	100		
72	49.2	35.3	52.9
71	44.3	32.2	48.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

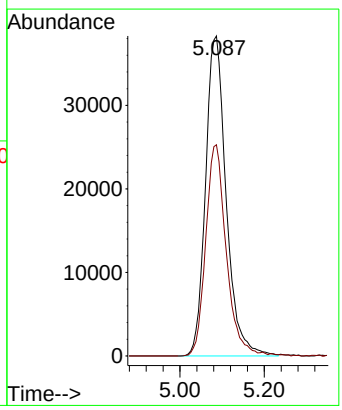


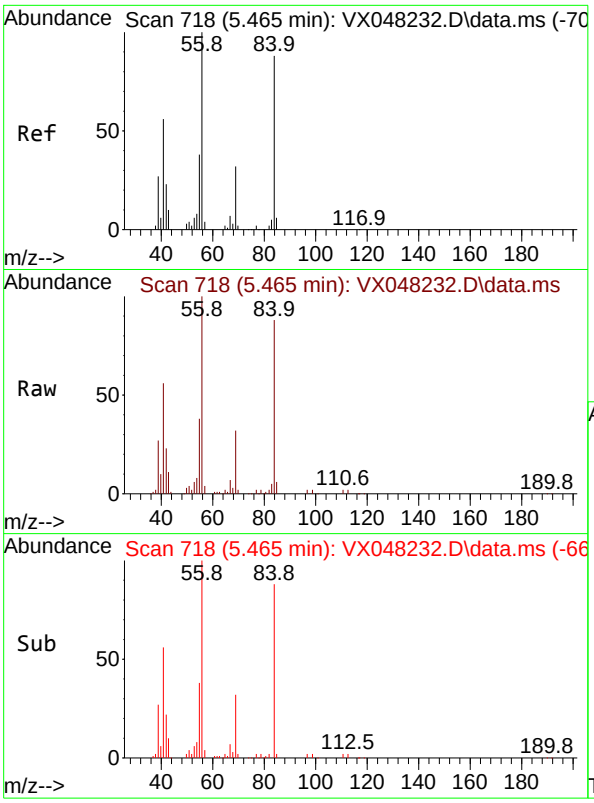


#30
Chloroform
Concen: 42.925 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 83 Resp: 130274

Ion	Ratio	Lower	Upper
83	100		
85	66.0	50.1	75.1

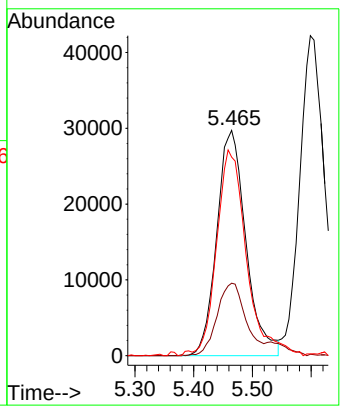




#31
Cyclohexane
Concen: 43.351 ug/l
RT: 5.465 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 56 Resp: 10225

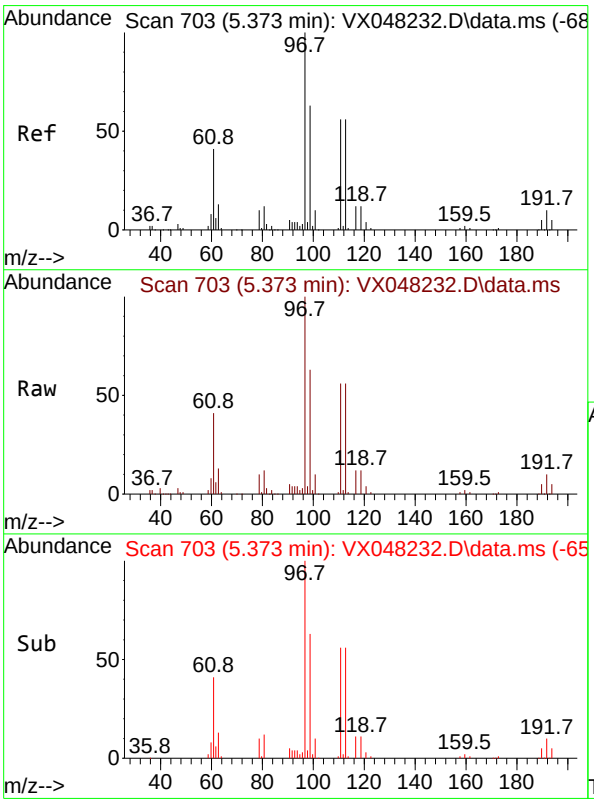
Ion	Ratio	Lower	Upper
56	100		
69	32.2	23.0	34.6
84	87.9	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

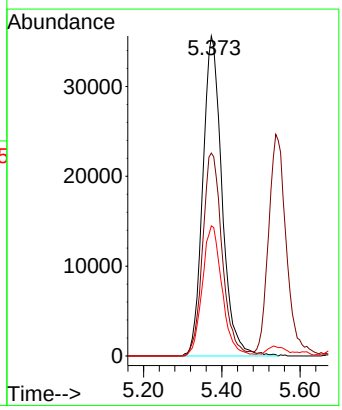
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

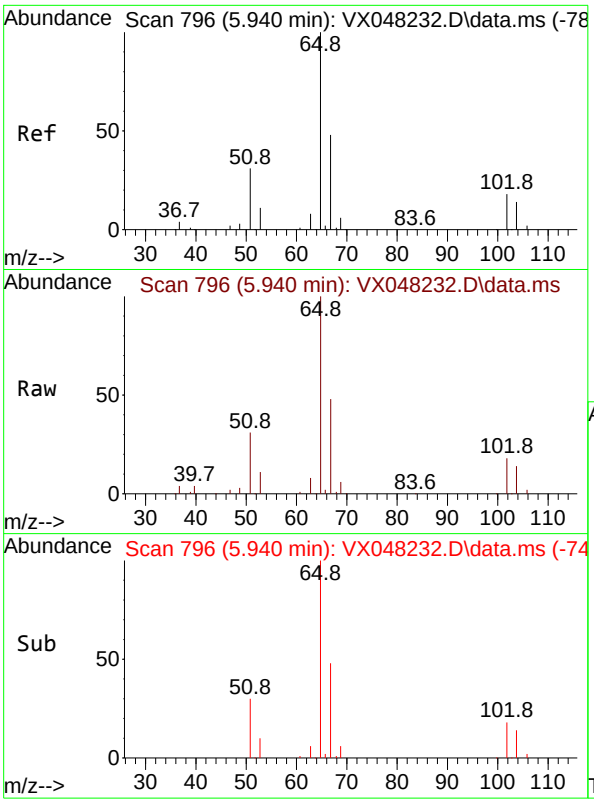


#32
1,1,1-Trichloroethane
Concen: 48.560 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 97 Resp: 121090

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.7	77.5
61	41.8	34.8	52.2

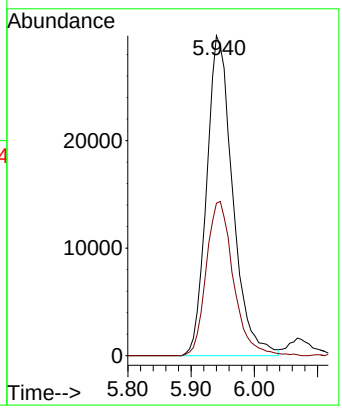




#33
1,2-Dichloroethane-d4
Concen: 44.048 ug/l
RT: 5.940 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 65 Resp: 8495

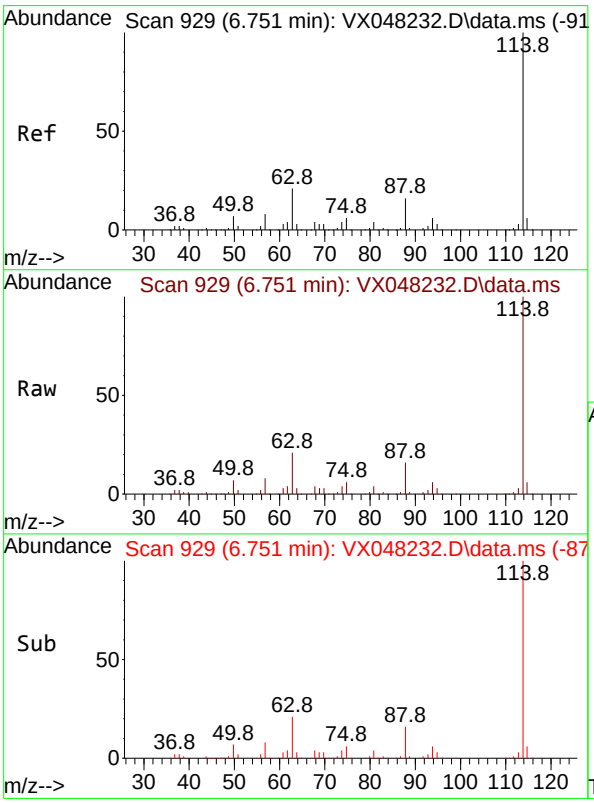
Ion	Ratio	Lower	Upper
65	100		
67	50.4	0.0	105.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

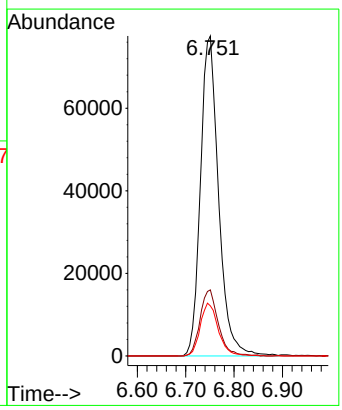
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

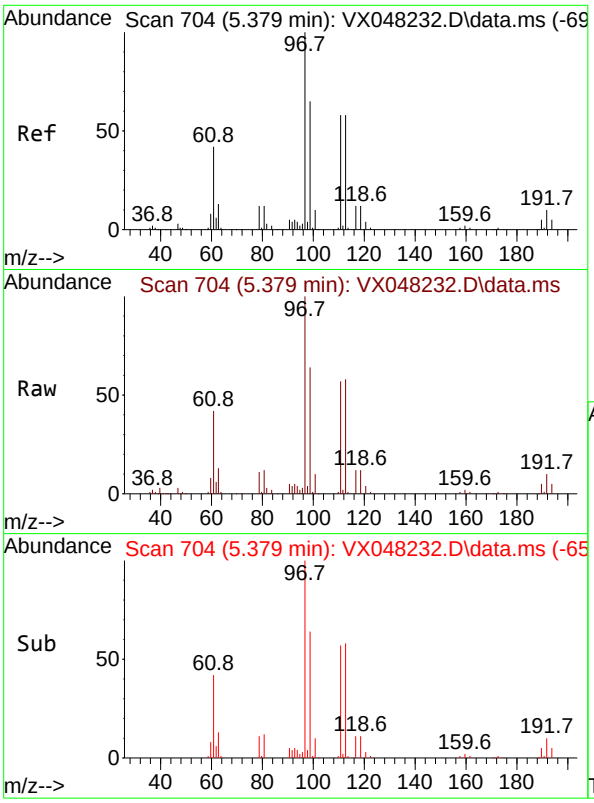


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:114 Resp: 201906

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	43.2
88	15.7	0.0	33.6

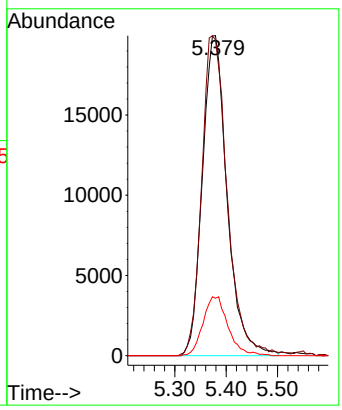




#35
Dibromofluoromethane
Concen: 47.523 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:113 Resp: 6659

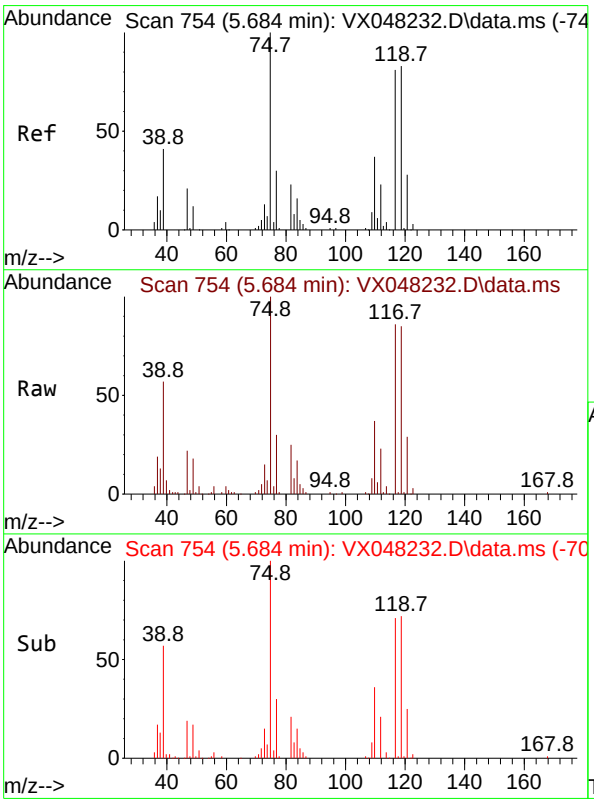
Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.2	123.4
192	18.7	15.1	22.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

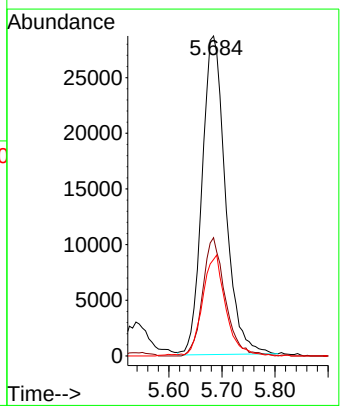
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

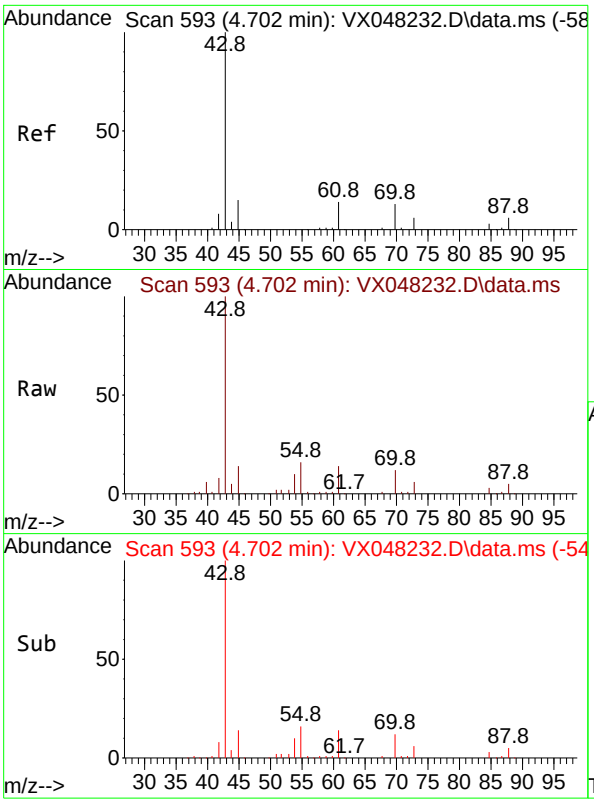


#36
1,1-Dichloropropene
Concen: 44.323 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 75 Resp: 87493

Ion	Ratio	Lower	Upper
75	100		
110	35.9	17.7	53.1
77	31.7	24.3	36.5

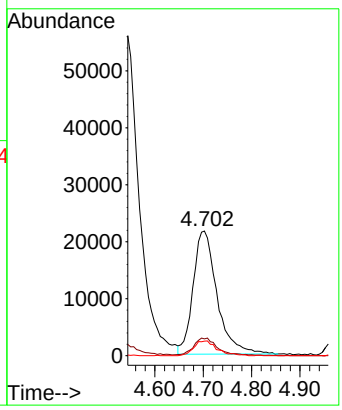




#37
Ethyl Acetate
Concen: 47.073 ug/l
RT: 4.702 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 43 Resp: 7426

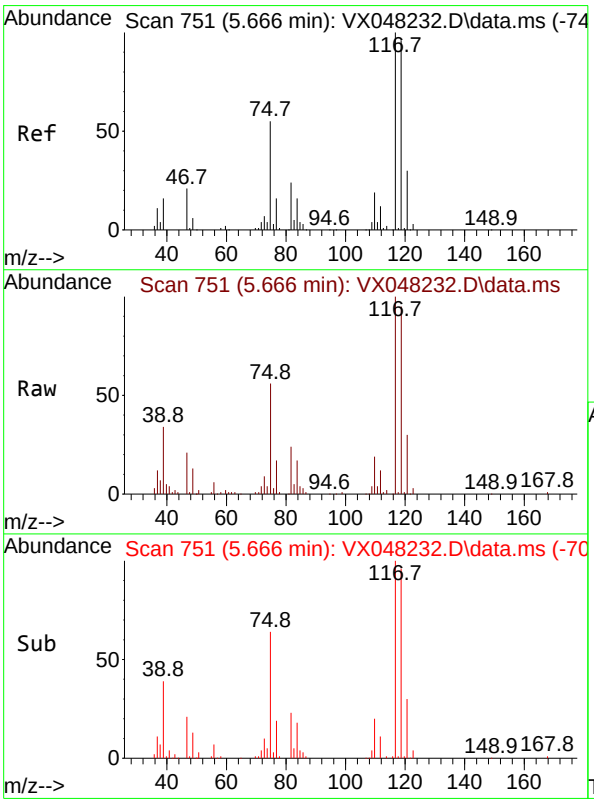
Ion	Ratio	Lower	Upper
43	100		
61	14.0	10.6	15.8
70	11.6	7.8	11.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

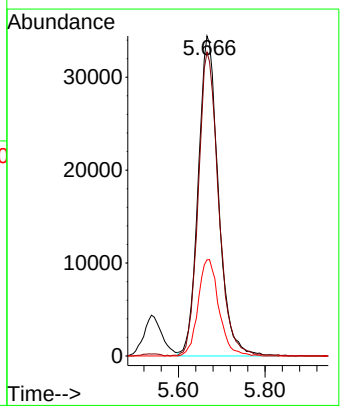
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

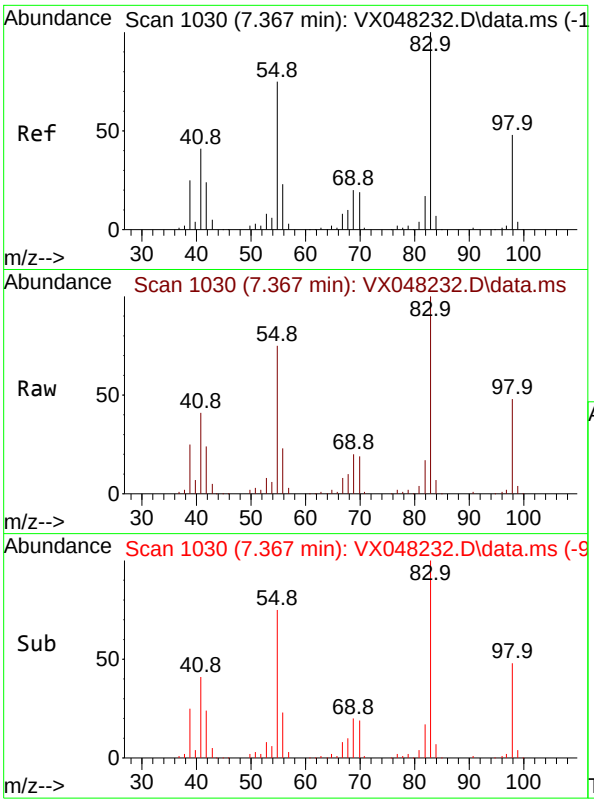


#38
Carbon Tetrachloride
Concen: 49.302 ug/l
RT: 5.666 min Scan# 751
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:117 Resp: 111708

Ion	Ratio	Lower	Upper
117	100		
119	94.8	77.2	115.8
121	30.1	24.8	37.2

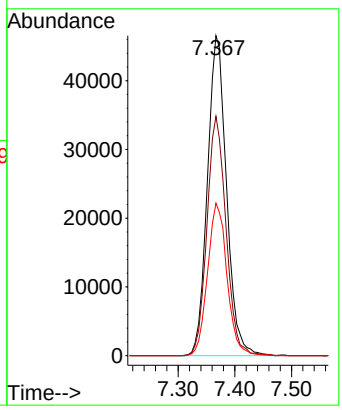




#39
Methylcyclohexane
Concen: 49.008 ug/l
RT: 7.367 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 83 Resp: 10907

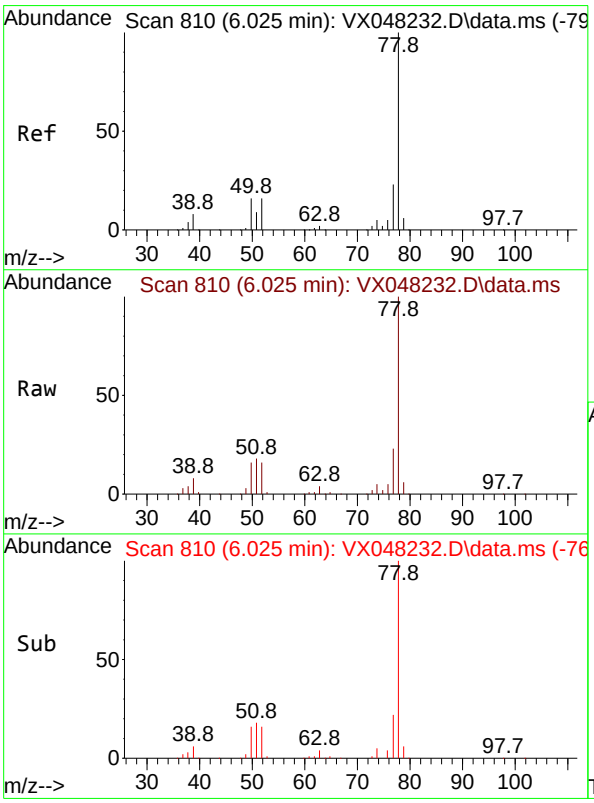
Ion	Ratio	Lower	Upper
83	100		
55	74.8	66.2	99.2
98	47.6	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

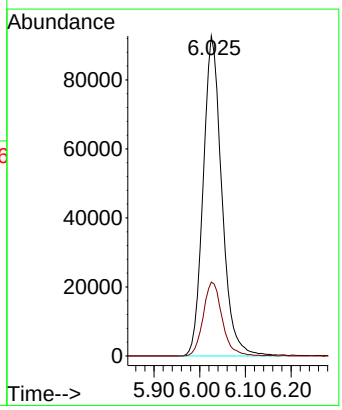
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

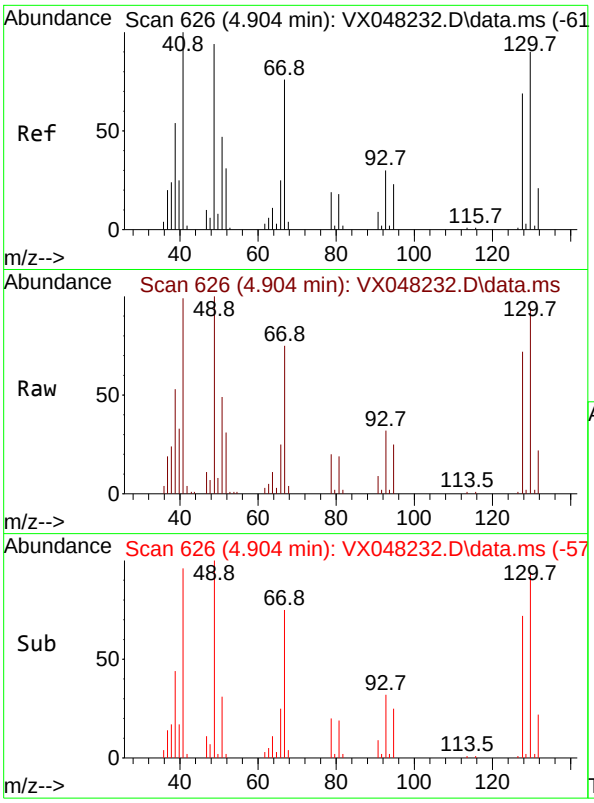


#40
Benzene
Concen: 44.825 ug/l
RT: 6.025 min Scan# 810
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 78 Resp: 262745

Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.3	28.9

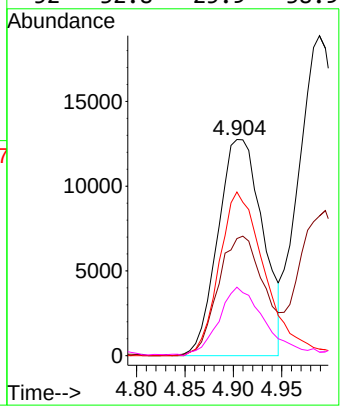




#41
Methacrylonitrile
Concen: 48.874 ug/l
RT: 4.904 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 41 Resp: 4129

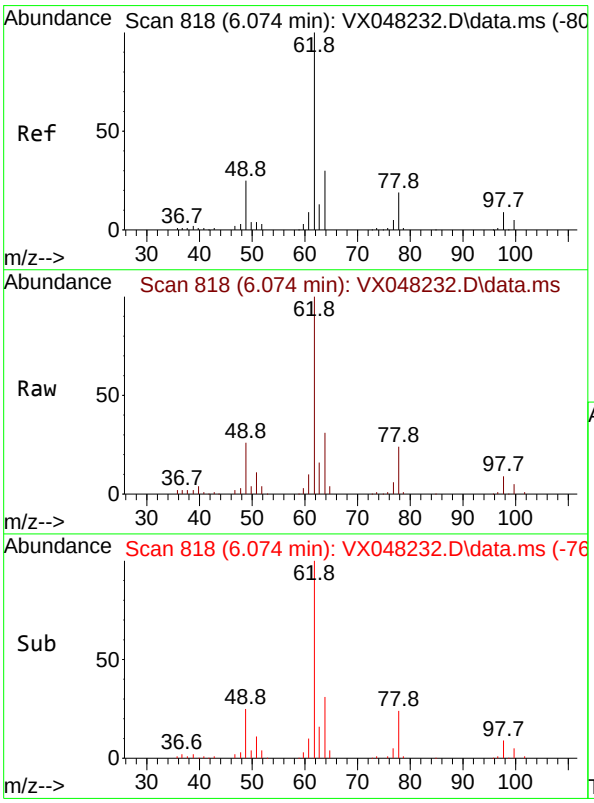
Ion	Ratio	Lower	Upper
41	100		
39	56.1	44.0	66.0
67	78.6	58.7	88.1
52	32.8	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

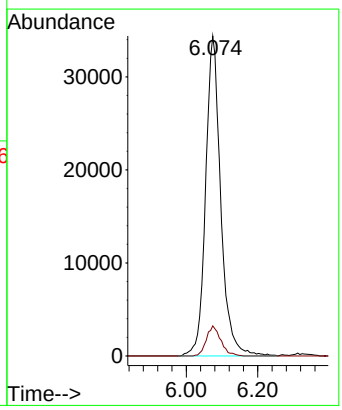
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

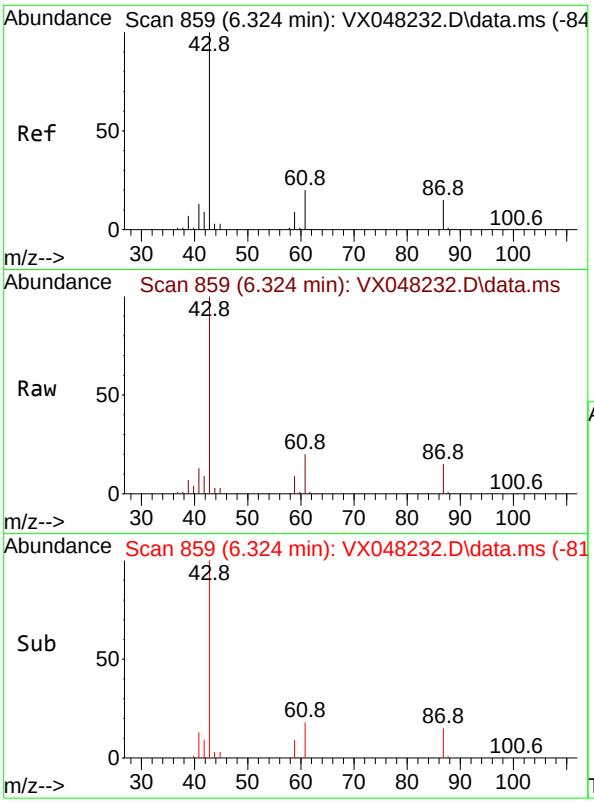


#42
1,2-Dichloroethane
Concen: 48.064 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 62 Resp: 100937

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	17.2

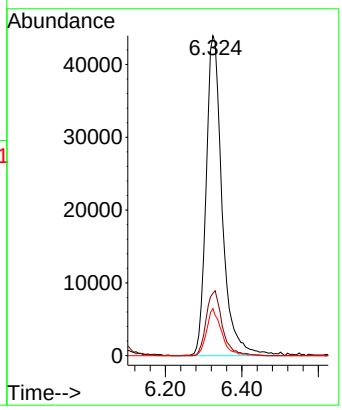




#43
Isopropyl Acetate
Concen: 48.444 ug/l
RT: 6.324 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 43 Resp: 12829

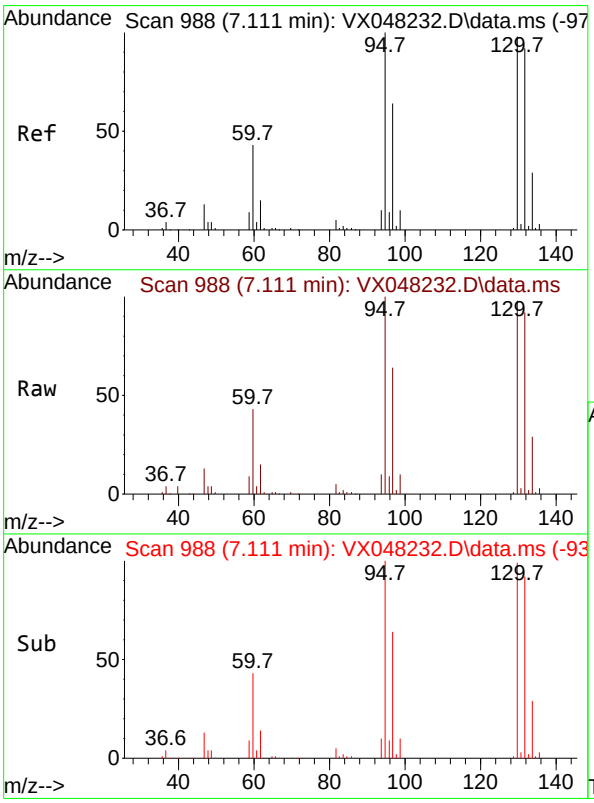
Ion	Ratio	Lower	Upper
43	100		
61	20.3	14.9	22.3
87	13.7	9.4	14.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

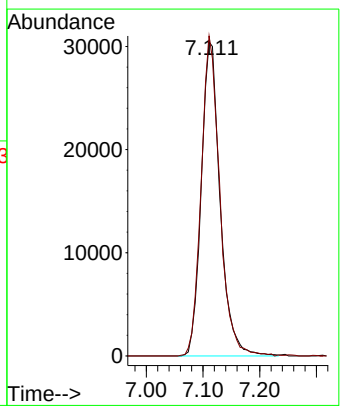
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

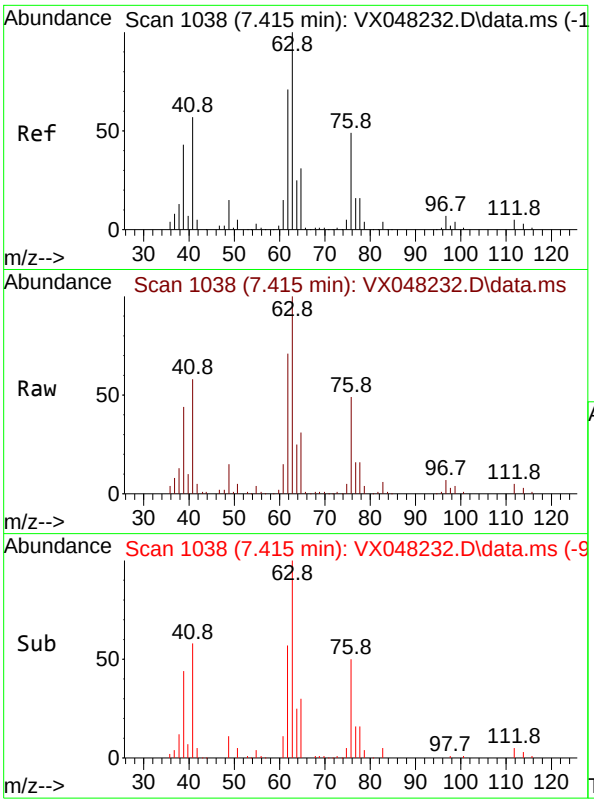


#44
Trichloroethene
Concen: 47.597 ug/l
RT: 7.111 min Scan# 988
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:130 Resp: 70313

Ion	Ratio	Lower	Upper
130	100		
95	101.9	0.0	200.6

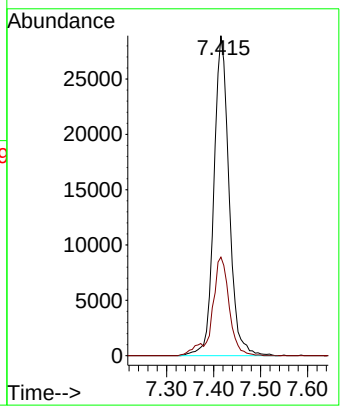




#45
1,2-Dichloropropane
Concen: 43.746 ug/l
RT: 7.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 63 Resp: 6489

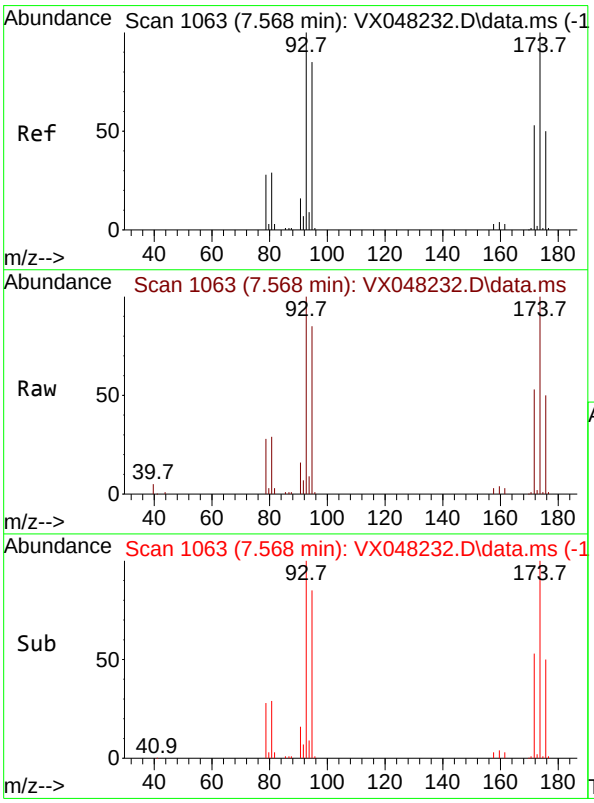
Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.1	36.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

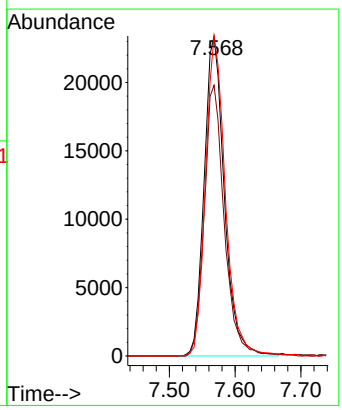
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

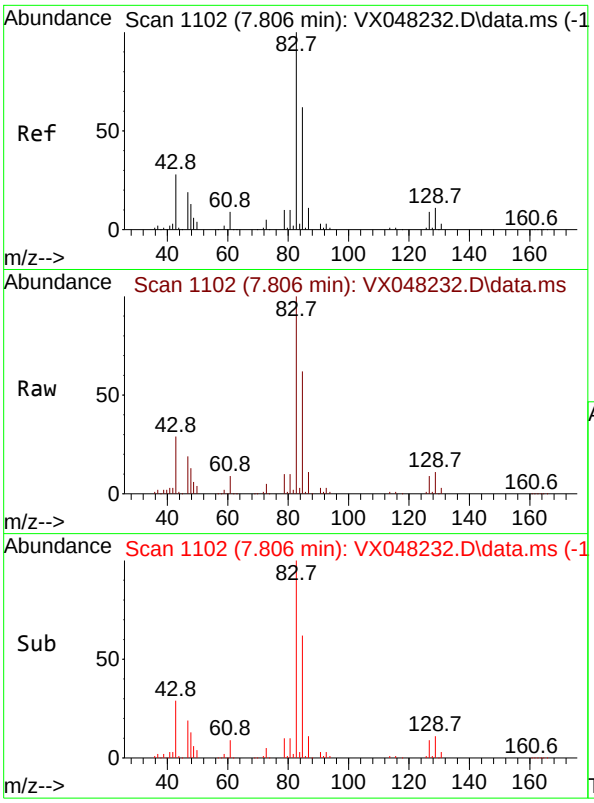


#46
Dibromomethane
Concen: 46.726 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 93 Resp: 49874

Ion	Ratio	Lower	Upper
93	100		
95	84.1	65.9	98.9
174	98.7	71.7	107.5

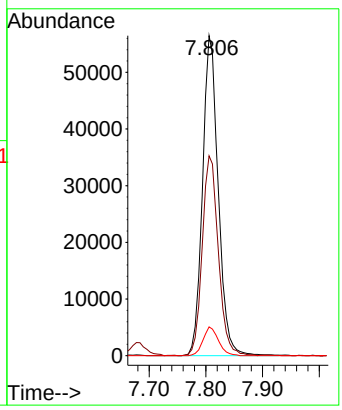




#47
Bromodichloromethane
Concen: 47.107 ug/l
RT: 7.806 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 83 Resp: 10867

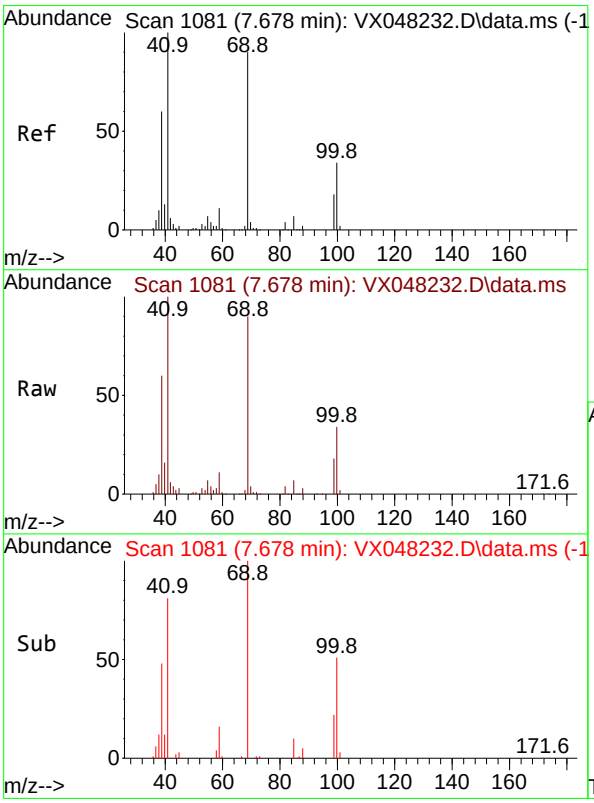
Ion	Ratio	Lower	Upper
83	100		
85	62.4	52.2	78.4
127	9.0	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

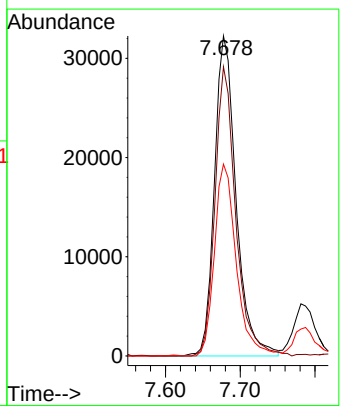
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

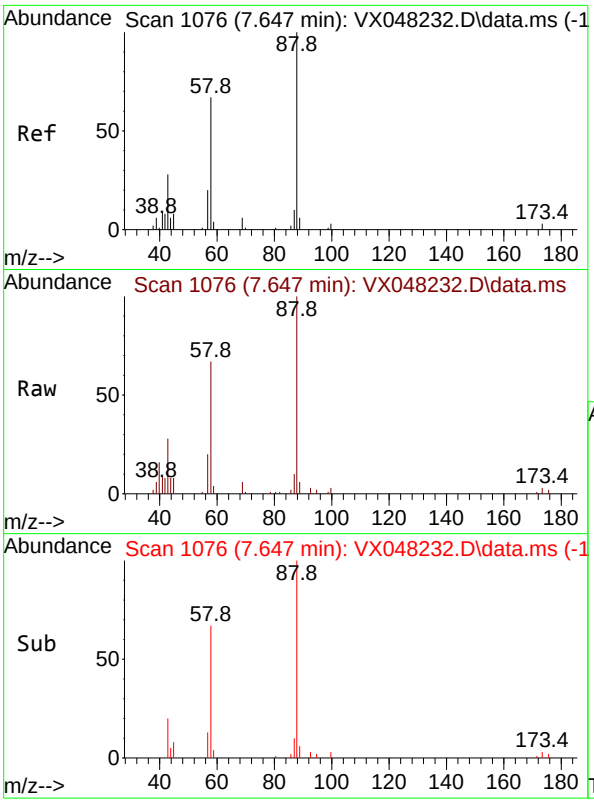


#48
Methyl methacrylate
Concen: 47.990 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 41 Resp: 65057

Ion	Ratio	Lower	Upper
41	100		
69	86.8	63.4	95.0
39	60.5	47.1	70.7





#49
1,4-Dioxane
Concen: 1467.288 ug/l
RT: 7.647 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

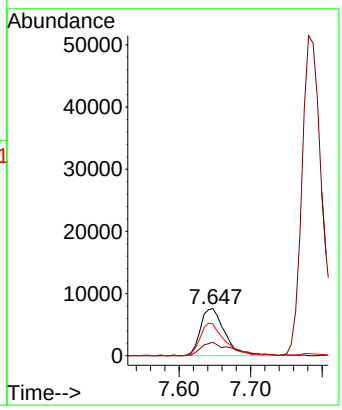
Tgt Ion: 88 Resp: 1790

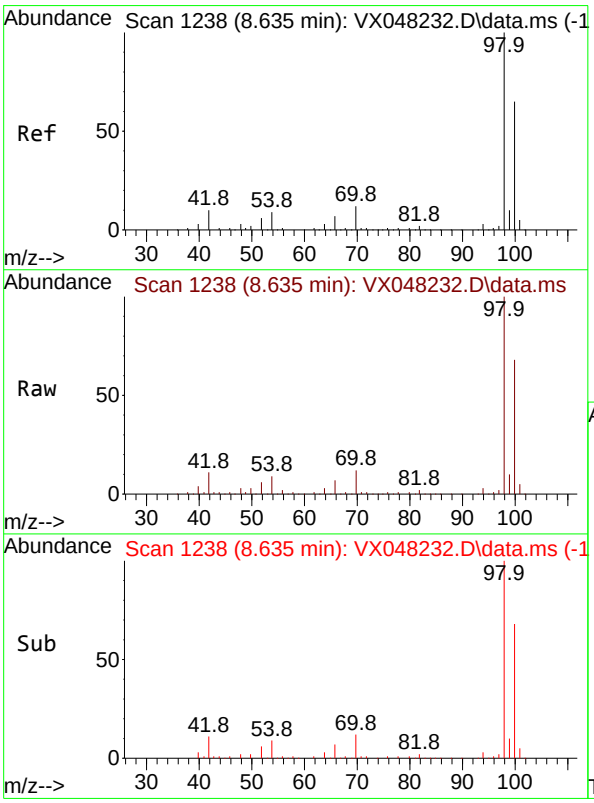
Ion	Ratio	Lower	Upper
88	100		
43	37.1	35.0	52.4
58	69.5	61.9	92.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

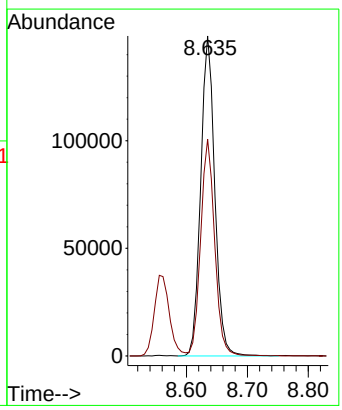


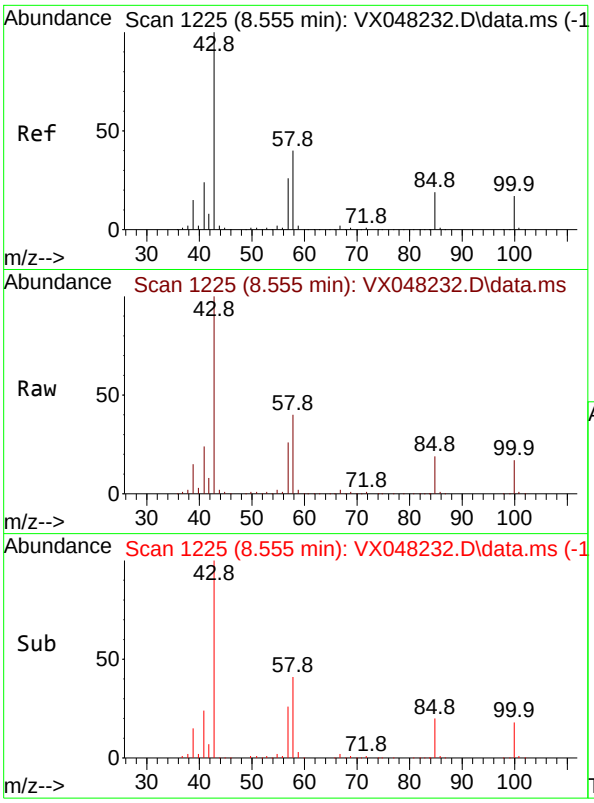


#50
Toluene-d8
Concen: 47.402 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 98 Resp: 239295

Ion	Ratio	Lower	Upper
98	100		
100	67.2	53.0	79.4





#51
4-Methyl-2-Pentanone
Concen: 258.320 ug/l
RT: 8.555 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

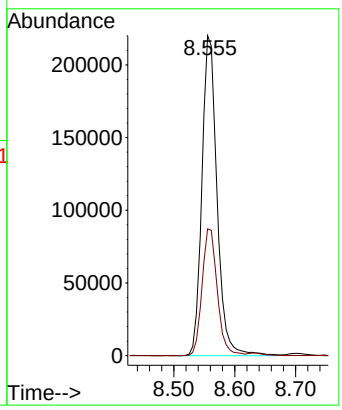
Tgt Ion: 43 Resp: 38066

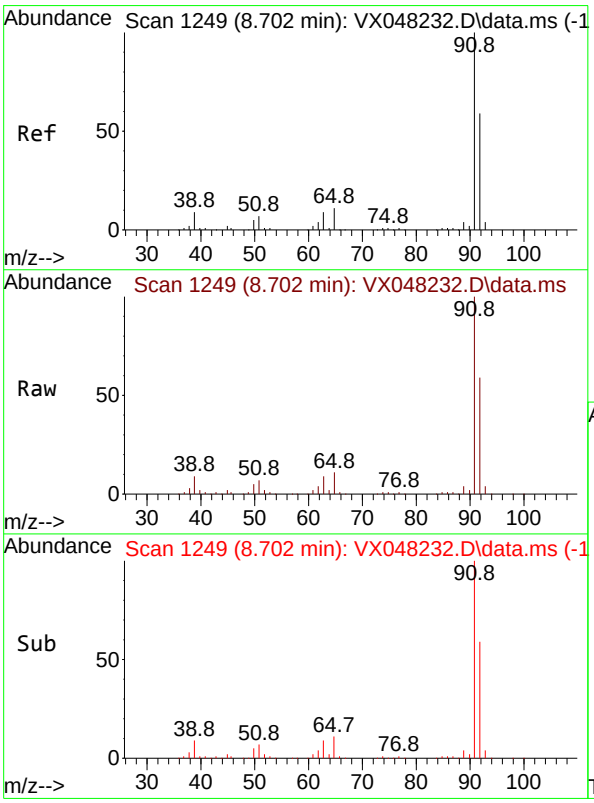
Ion	Ratio	Lower	Upper
43	100		
58	39.8	29.5	44.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

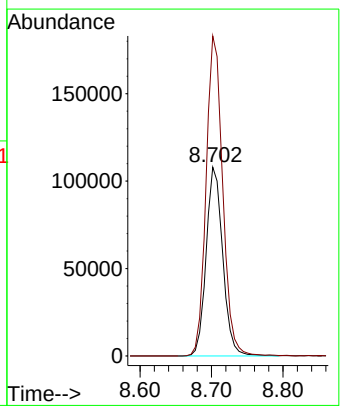


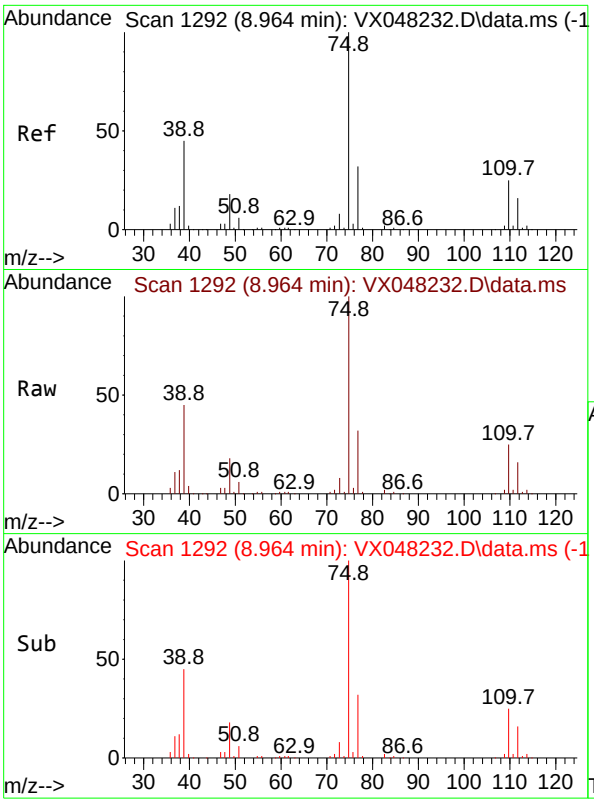


#52
Toluene
Concen: 49.373 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 92 Resp: 173942

Ion	Ratio	Lower	Upper
92	100		
91	169.6	136.1	204.1

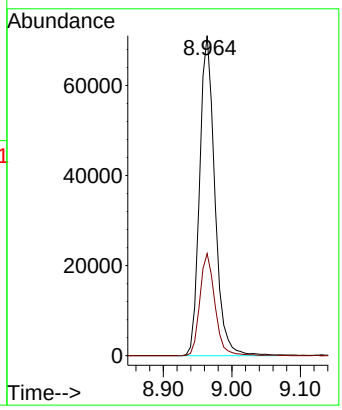




#53
t-1,3-Dichloropropene
Concen: 50.880 ug/l
RT: 8.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 75 Resp: 10996

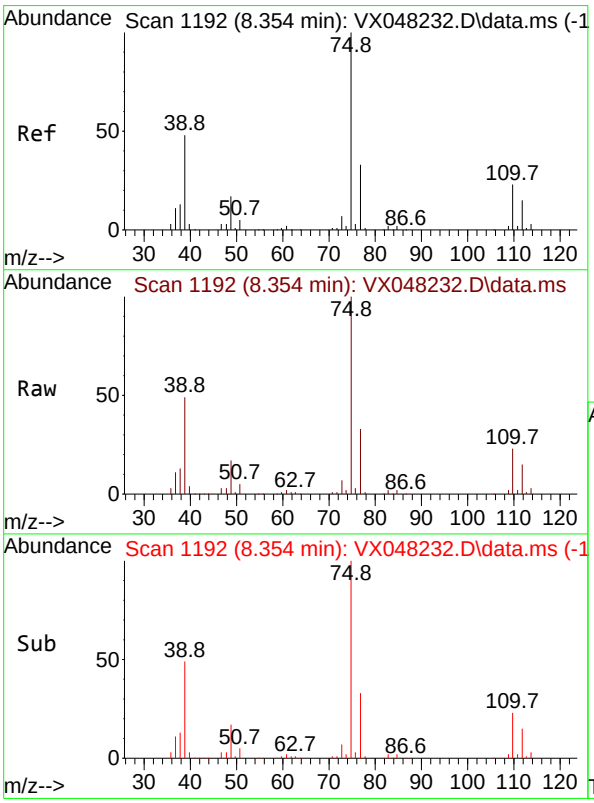
Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

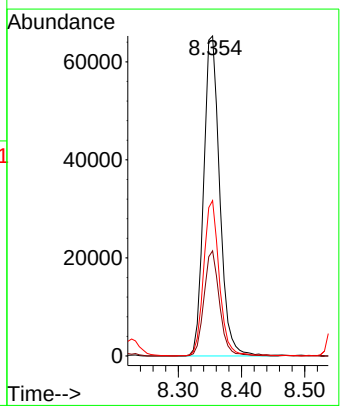
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

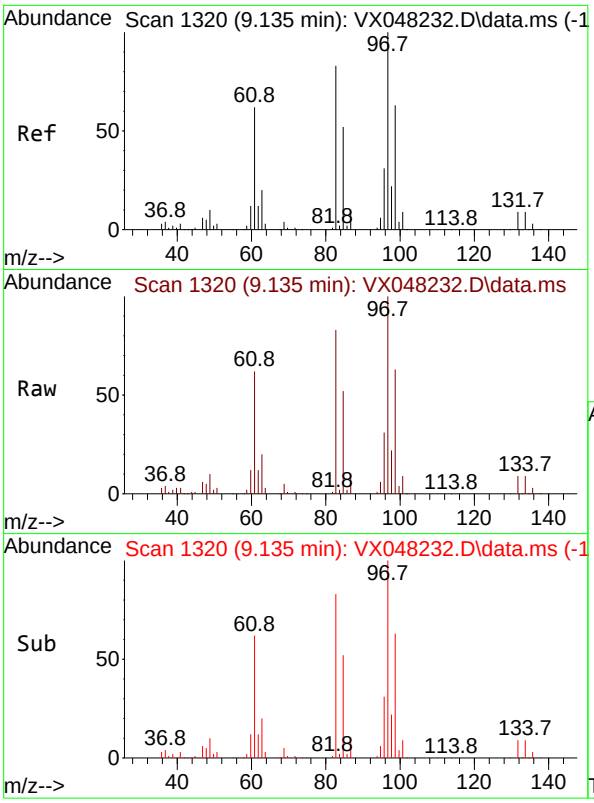


#54
cis-1,3-Dichloropropene
Concen: 49.046 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 75 Resp: 115534

Ion	Ratio	Lower	Upper
75	100		
77	32.8	24.9	37.3
39	46.7	42.6	64.0

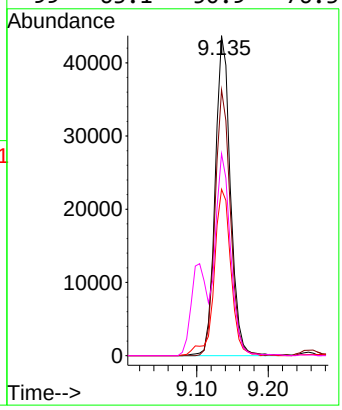




#55
1,1,2-Trichloroethane
Concen: 49.248 ug/l
RT: 9.135 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 97 Resp: 6473

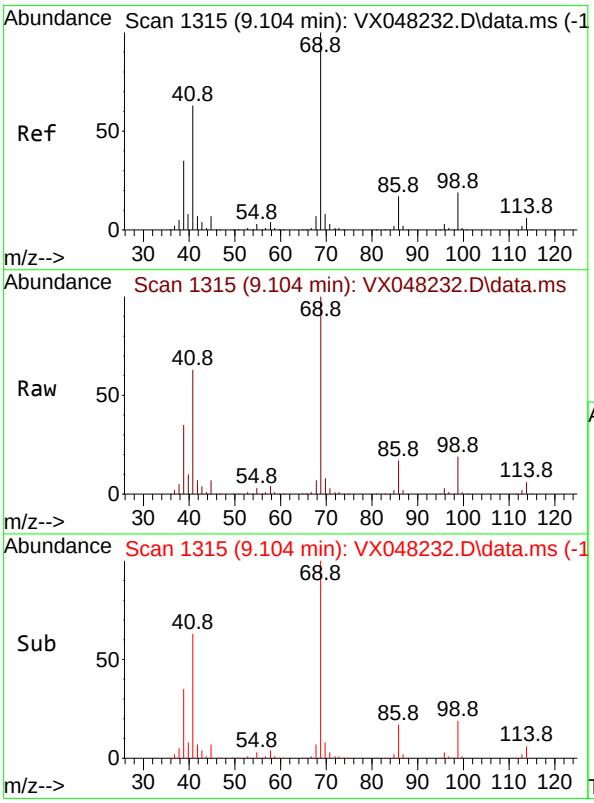
Ion	Ratio	Lower	Upper
97	100		
83	83.0	70.6	105.8
85	52.0	45.0	67.6
99	63.1	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

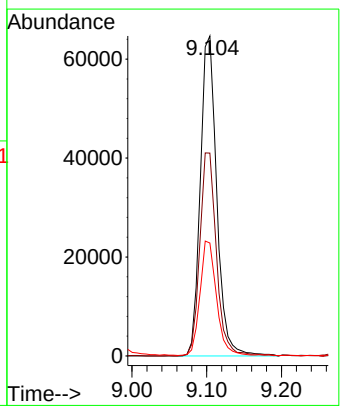
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

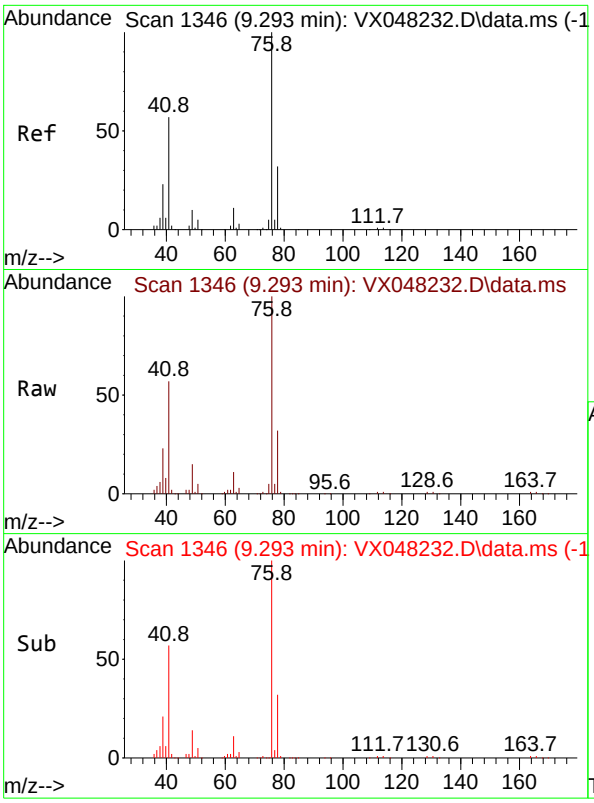


#56
Ethyl methacrylate
Concen: 55.290 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 69 Resp: 98851

Ion	Ratio	Lower	Upper
69	100		
41	64.4	56.0	84.0
39	35.9	31.6	47.4





#57
1,3-Dichloropropane
Concen: 48.206 ug/l
RT: 9.293 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

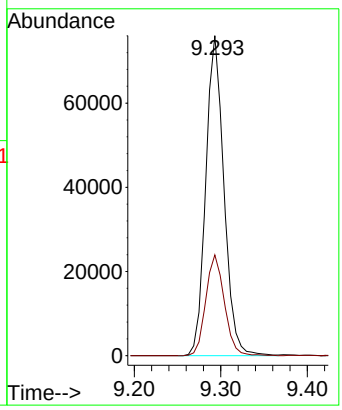
Tgt Ion: 76 Resp: 11070

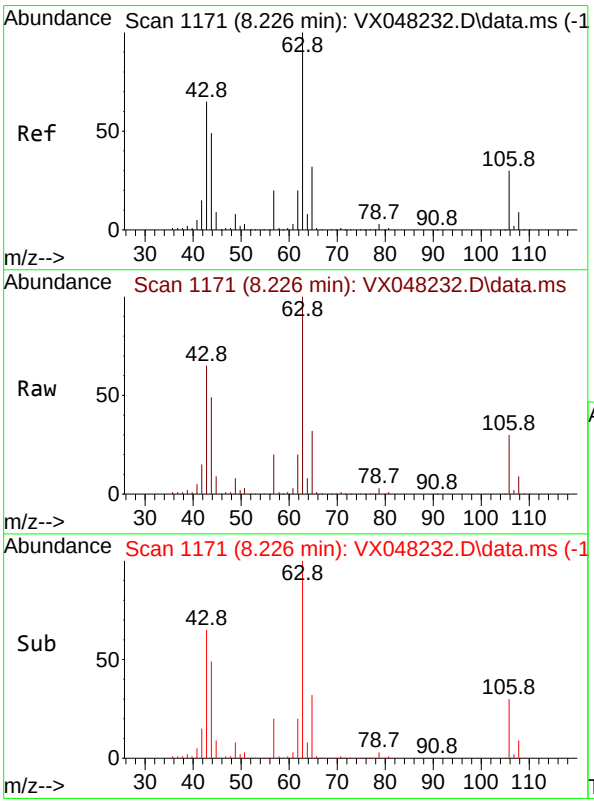
Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.4	38.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

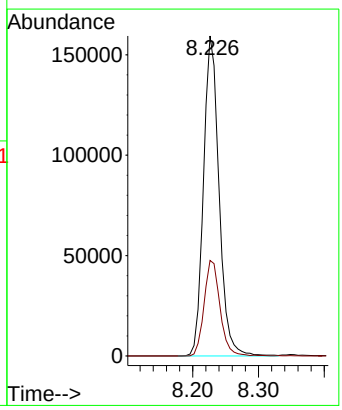


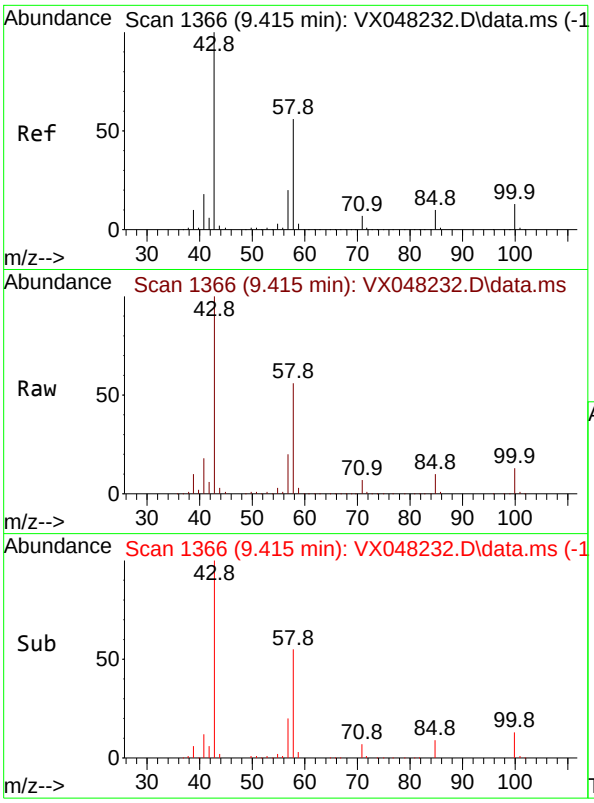


#58
2-Chloroethyl Vinyl ether
Concen: 285.817 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 63 Resp: 262387

Ion	Ratio	Lower	Upper
63	100		
106	30.6	22.2	33.2





#59
2-Hexanone
Concen: 261.113 ug/l
RT: 9.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

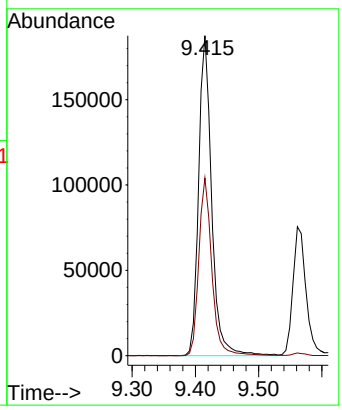
Tgt Ion: 43 Resp: 26914

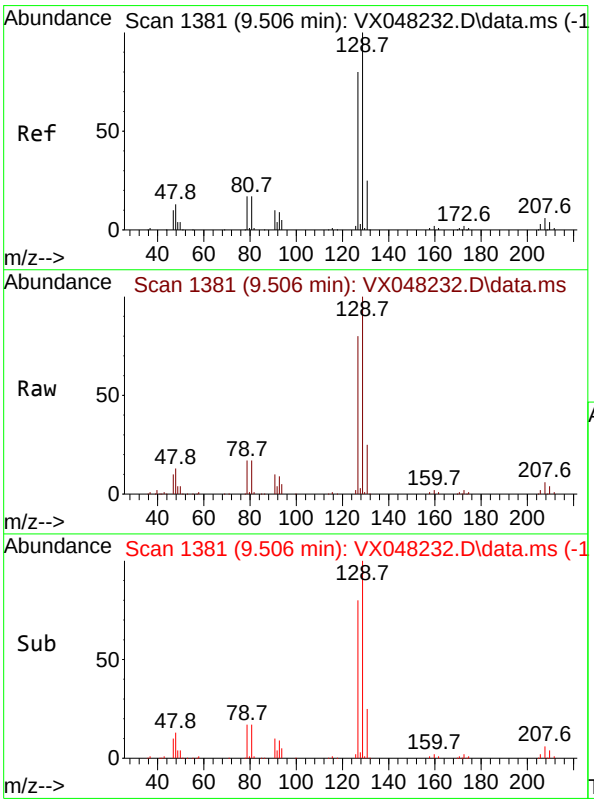
Ion	Ratio	Lower	Upper
43	100		
58	55.6	26.3	78.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

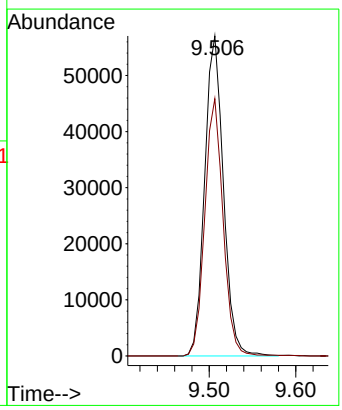


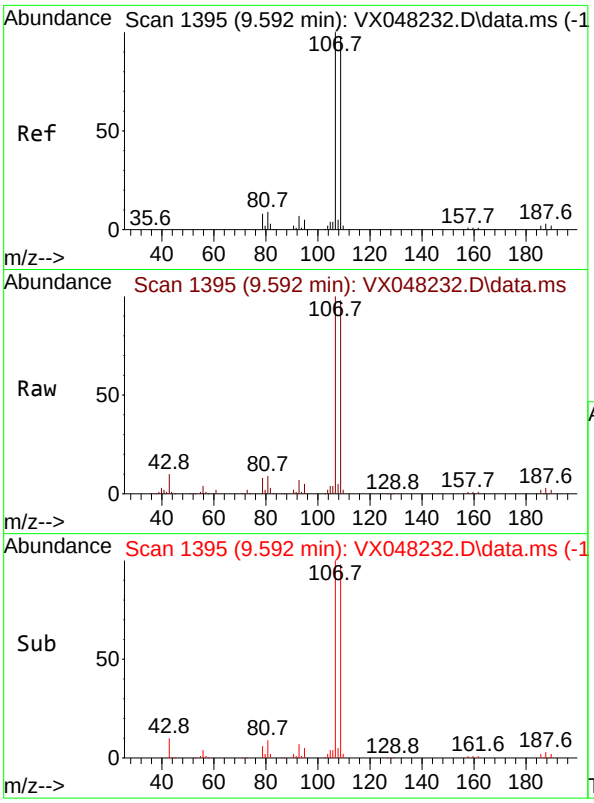


#60
Dibromochloromethane
Concen: 52.123 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:129 Resp: 85760

Ion	Ratio	Lower	Upper
129	100		
127	78.4	38.6	115.7





#61
1,2-Dibromoethane
Concen: 51.208 ug/l
RT: 9.592 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

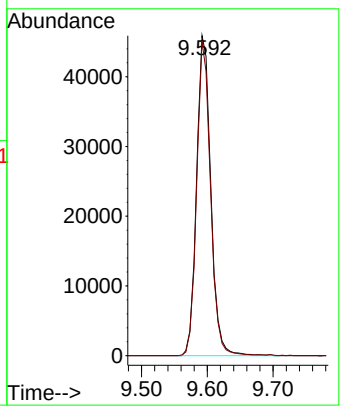
Tgt Ion:107 Resp: 6902

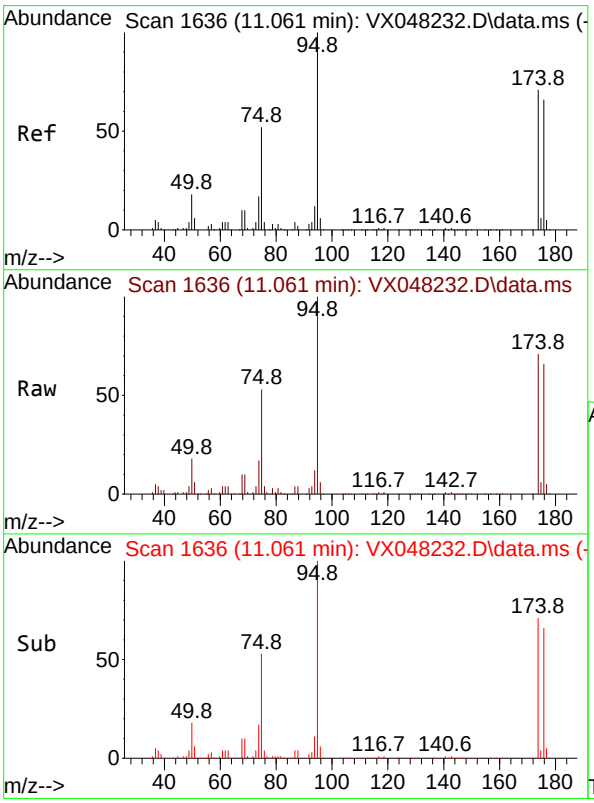
Ion	Ratio	Lower	Upper
107	100		
109	95.5	77.0	115.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

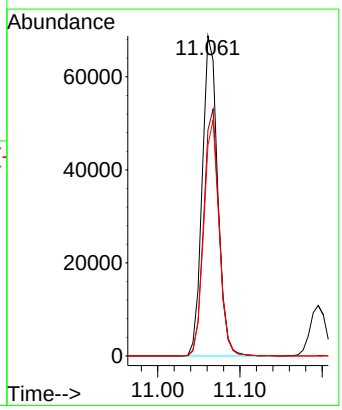


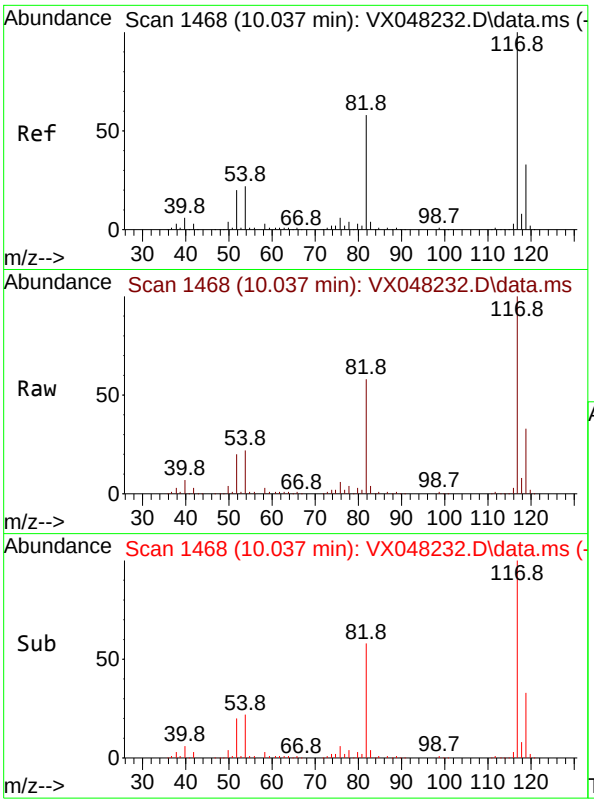


#62
4-Bromofluorobenzene
Concen: 48.719 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 95 Resp: 89579

Ion	Ratio	Lower	Upper
95	100		
174	77.3	0.0	147.8
176	73.3	0.0	142.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

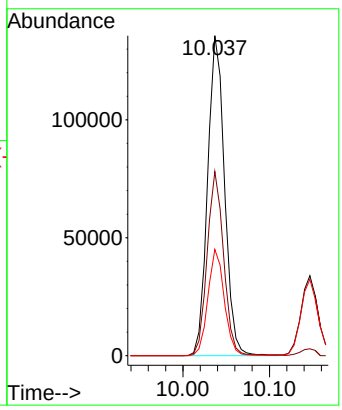
Tgt Ion:117 Resp: 18449

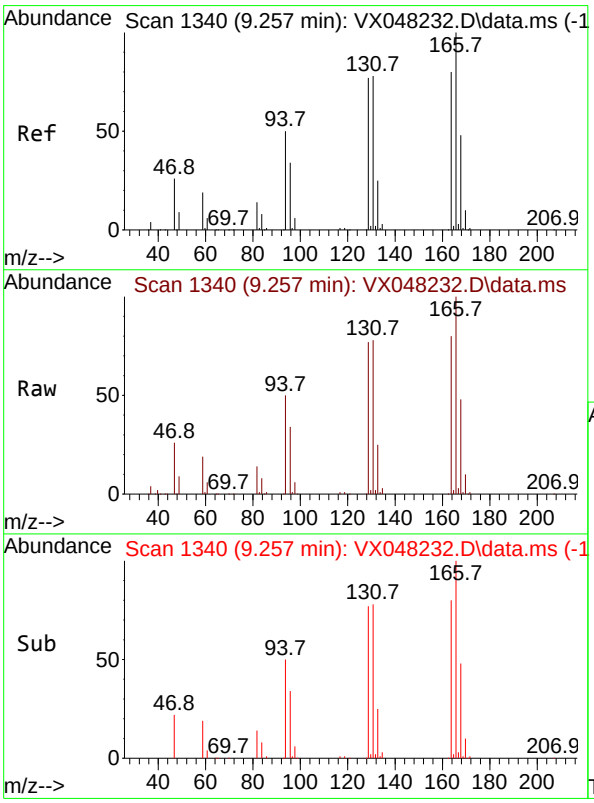
Ion	Ratio	Lower	Upper
117	100		
82	57.6	46.5	69.7
119	33.2	25.9	38.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

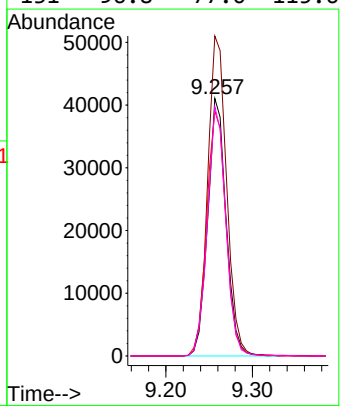


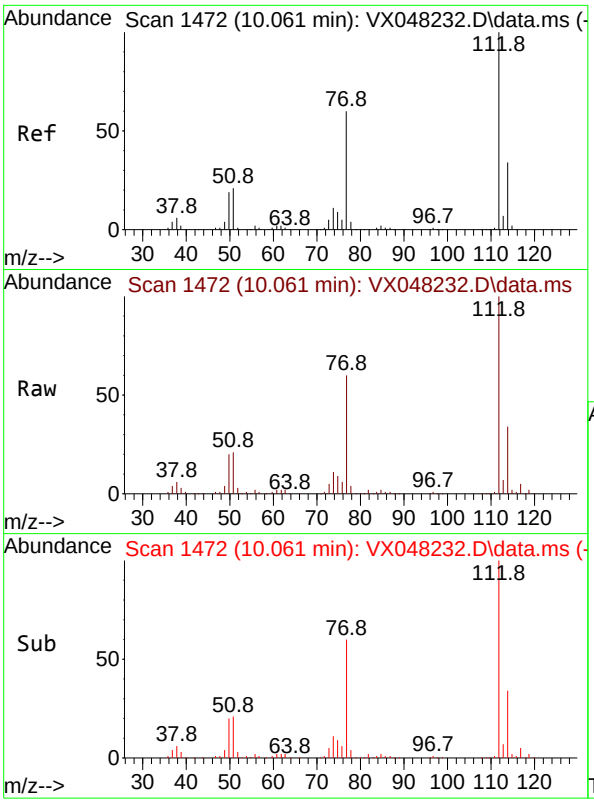


#64
Tetrachloroethene
Concen: 46.776 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:164 Resp: 60510

Ion	Ratio	Lower	Upper
164	100		
166	124.3	104.5	156.7
129	95.1	81.8	122.6
131	96.8	77.0	115.6

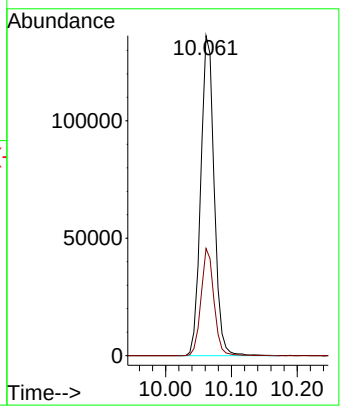




#65
Chlorobenzene
Concen: 47.805 ug/l
RT: 10.061 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:112 Resp: 19284

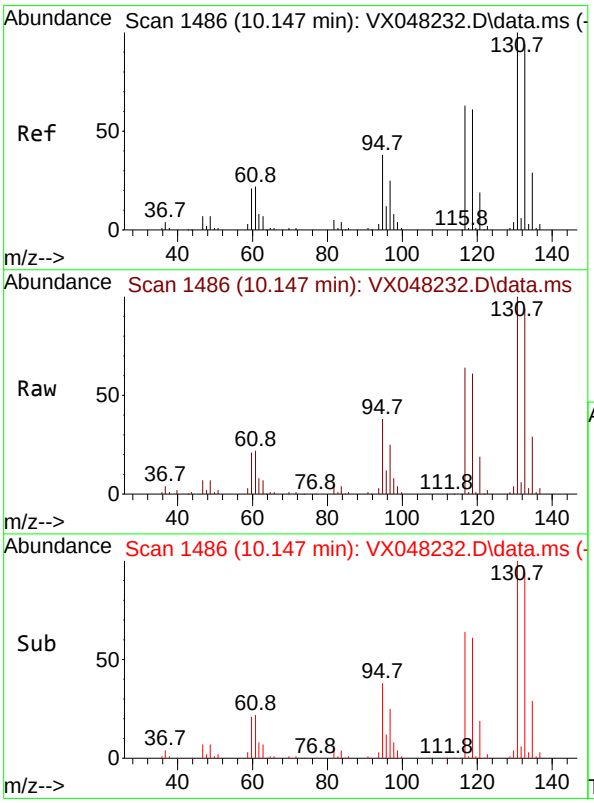
Ion	Ratio	Lower	Upper
112	100		
114	33.5	26.2	39.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

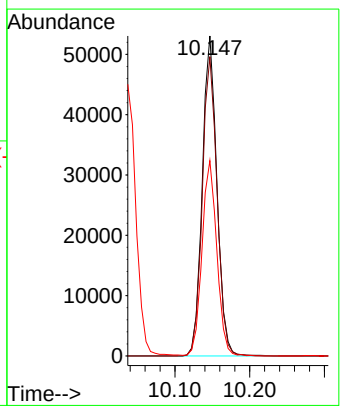
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

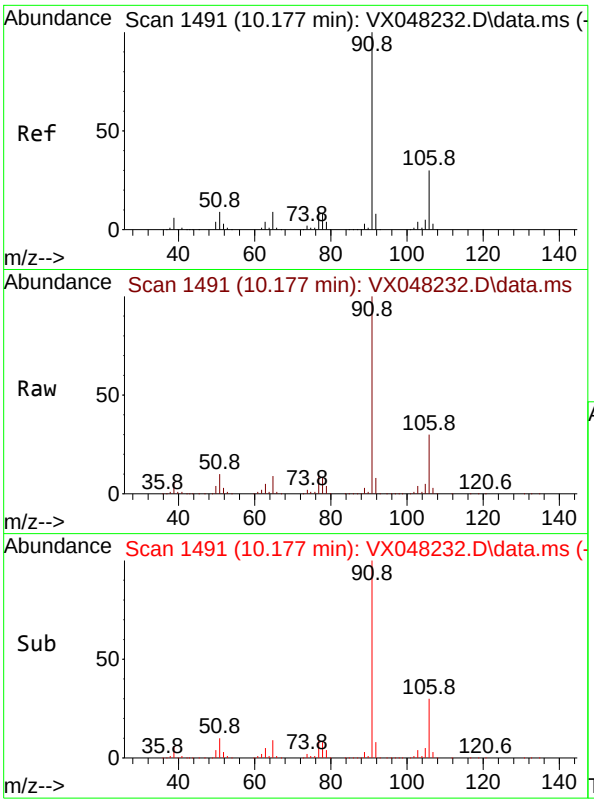


#66
1,1,1,2-Tetrachloroethane
Concen: 49.482 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:131 Resp: 71930

Ion	Ratio	Lower	Upper
131	100		
133	94.7	47.6	142.8
119	62.0	32.5	97.5





#67
Ethyl Benzene
Concen: 48.680 ug/l
RT: 10.177 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

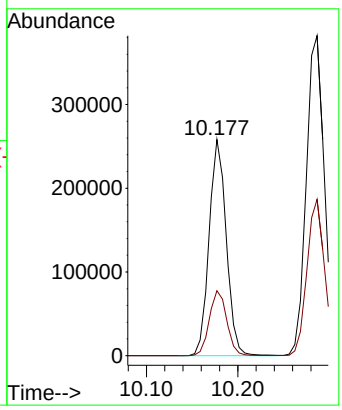
Tgt Ion: 91 Resp: 33666

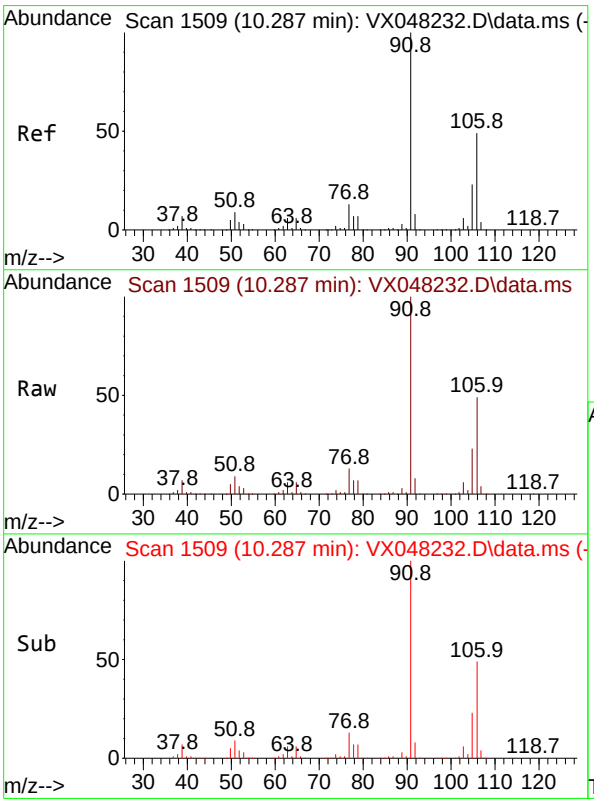
Ion	Ratio	Lower	Upper
91	100		
106	30.1	23.8	35.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

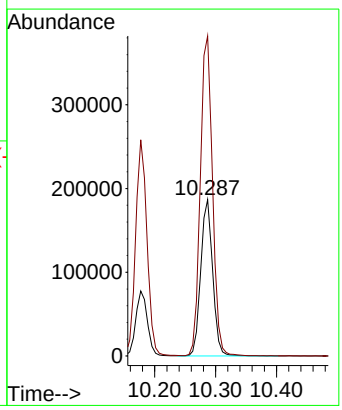


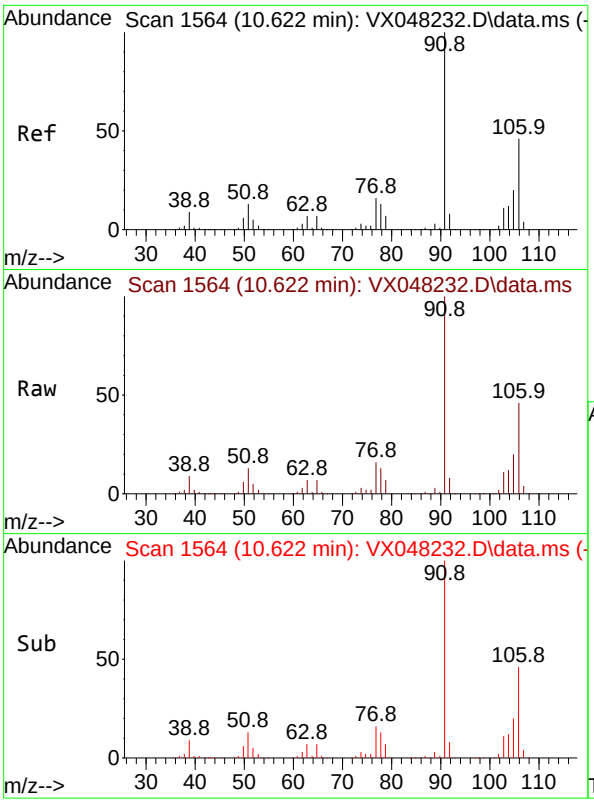


#68
m/p-Xylenes
Concen: 98.455 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:106 Resp: 253662

Ion	Ratio	Lower	Upper
106	100		
91	209.1	167.9	251.9

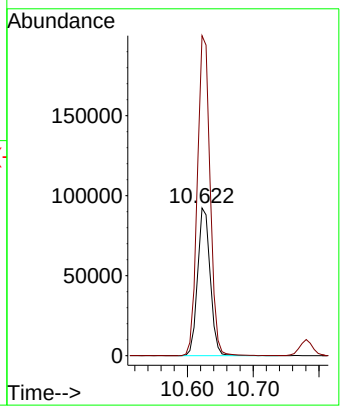




#69
o-Xylene
Concen: 50.542 ug/l
RT: 10.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:106 Resp: 12258

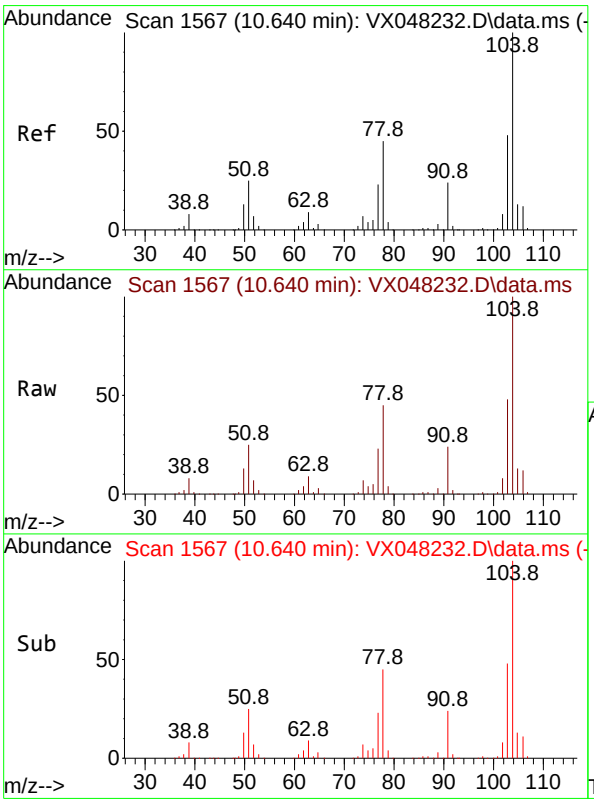
Ion	Ratio	Lower	Upper
106	100		
91	219.2	111.3	333.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

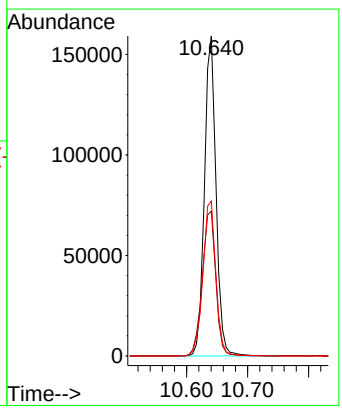
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

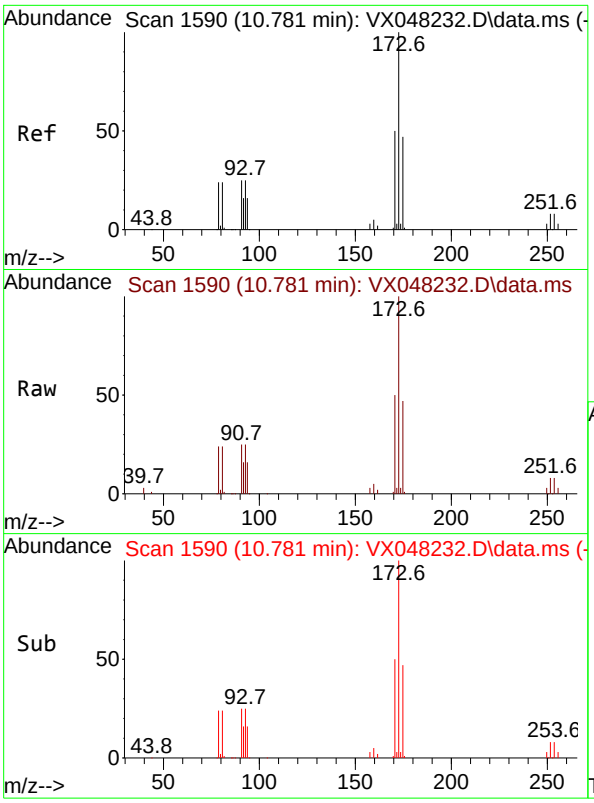


#70
Styrene
Concen: 50.508 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:104 Resp: 210861

Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.2	63.4
103	54.4	43.0	64.4

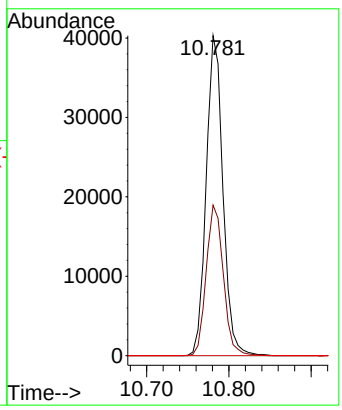




#71
Bromoform
Concen: 53.279 ug/l
RT: 10.781 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:173 Resp: 5687

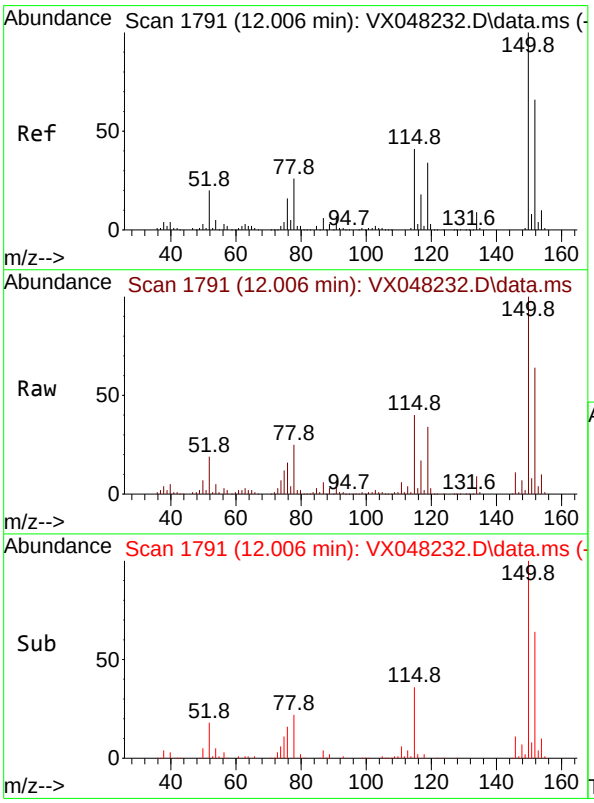
Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

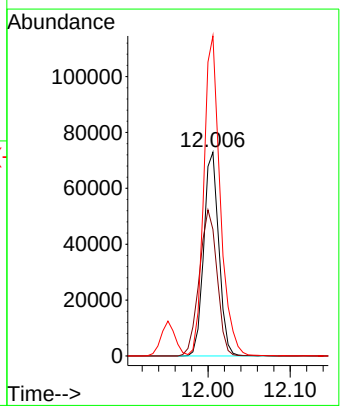
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

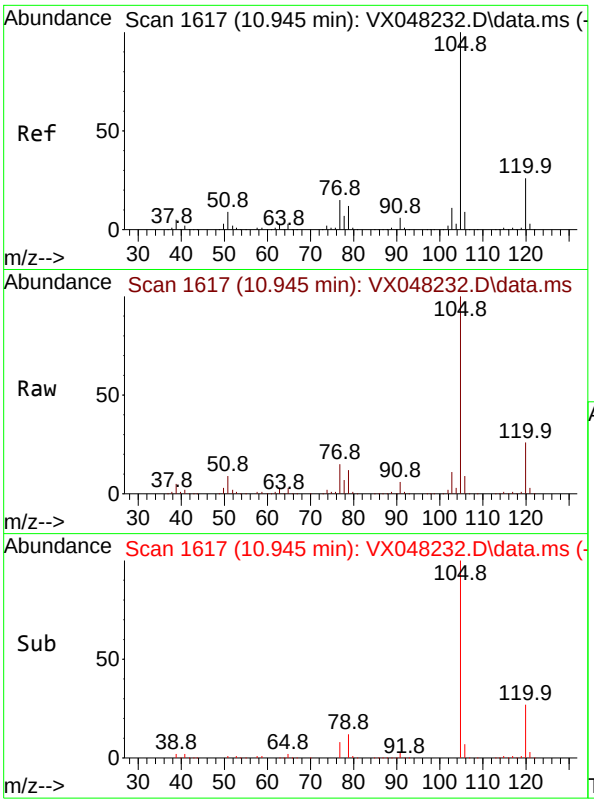


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:152 Resp: 92693

Ion	Ratio	Lower	Upper
152	100		
115	84.9	43.1	129.4
150	171.1	0.0	353.0





#73
Isopropylbenzene
Concen: 49.321 ug/l
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

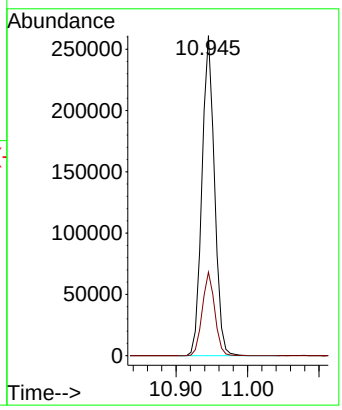
Tgt Ion:105 Resp: 31797

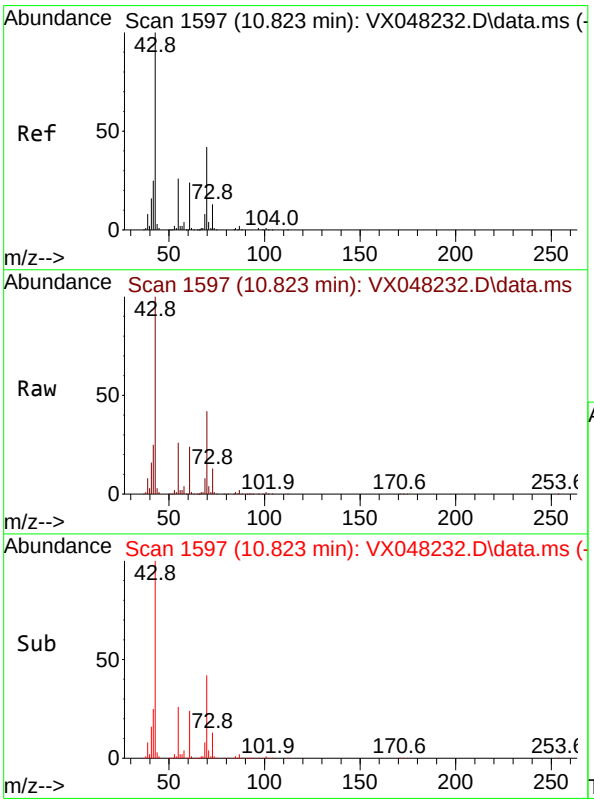
Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.0	38.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

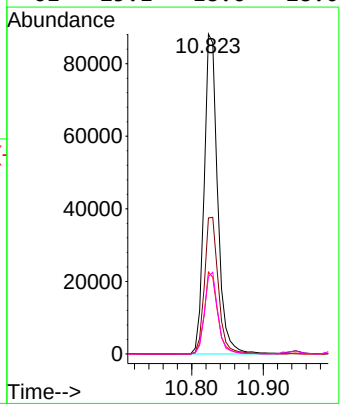


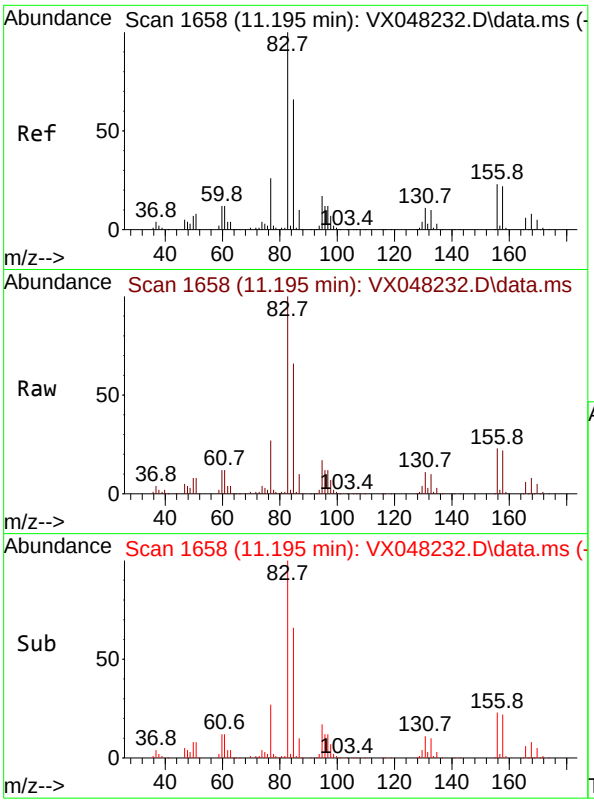


#74
N-amyl acetate
Concen: 48.098 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 43 Resp: 115683

Ion	Ratio	Lower	Upper
43	100		
70	43.8	32.2	48.2
55	25.1	19.1	28.7
61	25.1	18.6	28.0





#75
1,1,2,2-Tetrachloroethane
Concen: 48.020 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

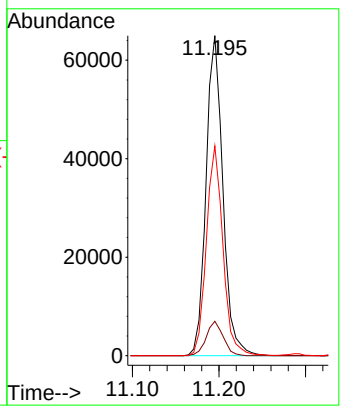
Tgt Ion: 83 Resp: 8770

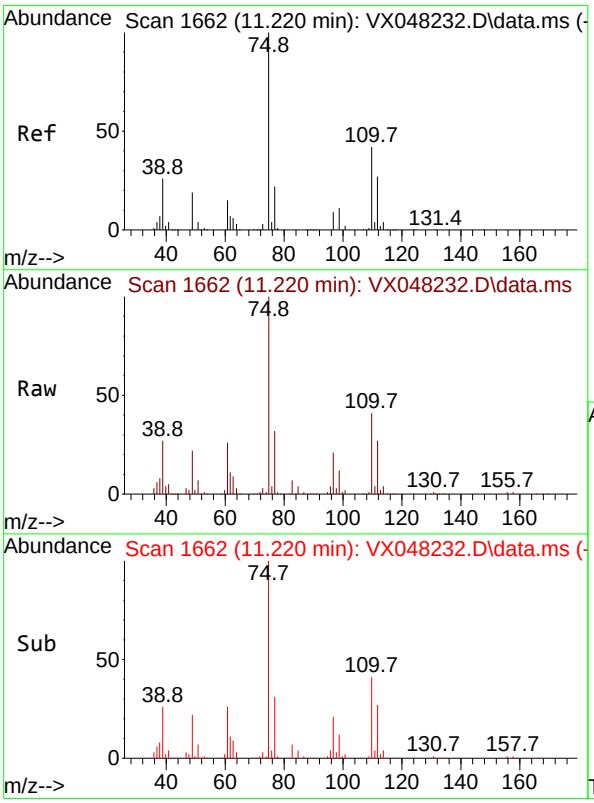
Ion	Ratio	Lower	Upper
83	100		
131	10.9	4.8	14.4
85	64.5	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

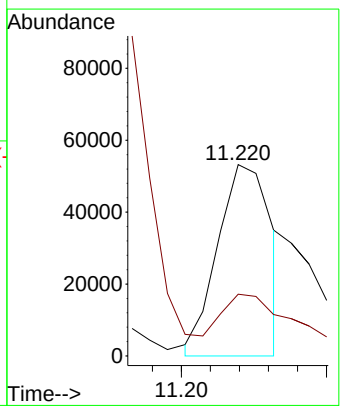


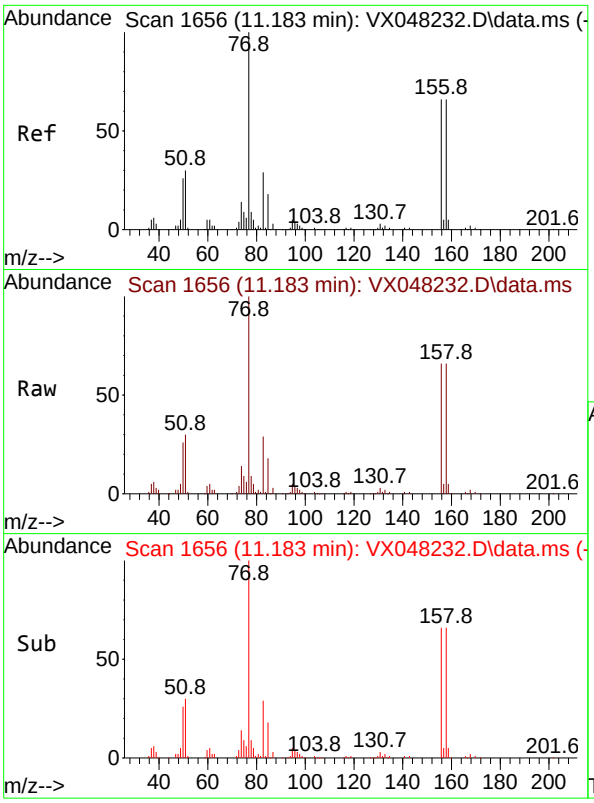


#76
1,2,3-Trichloropropane
Concen: 48.115 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 75 Resp: 68104

Ion	Ratio	Lower	Upper
75	100		
77	45.1	22.4	67.2





#77
Bromobenzene
Concen: 49.303 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

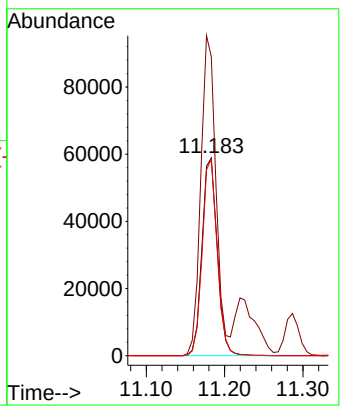
Tgt Ion:156 Resp: 7954

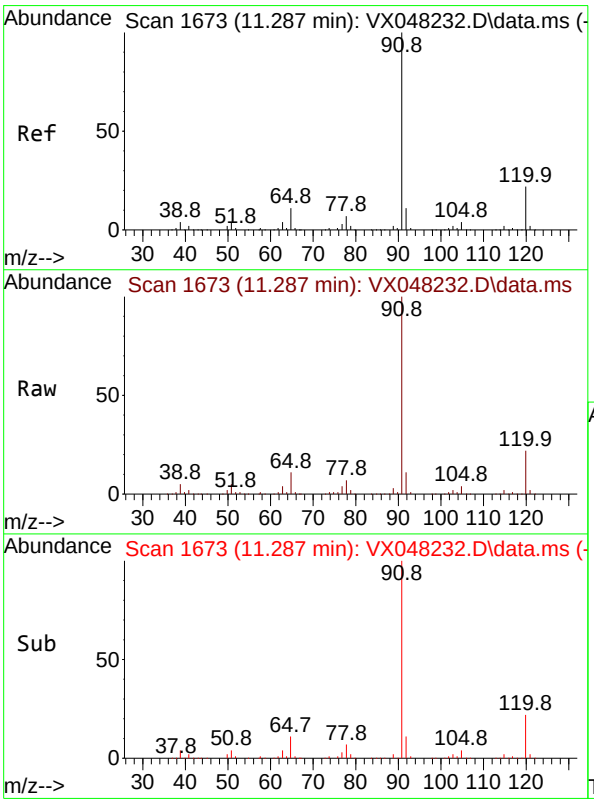
Ion	Ratio	Lower	Upper
156	100		
77	161.6	87.0	261.0
158	97.3	47.8	143.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

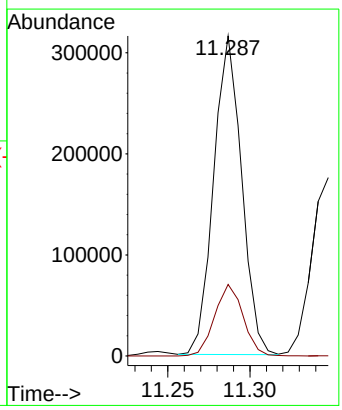


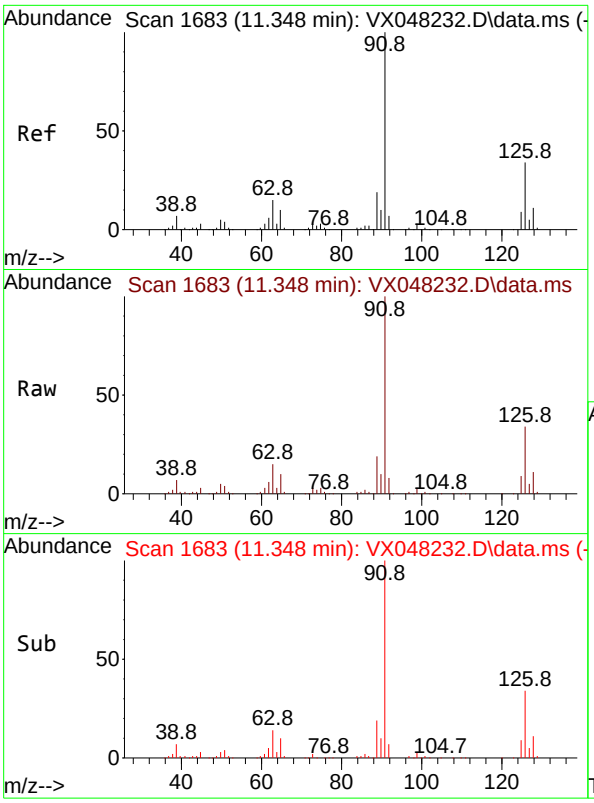


#78
n-propylbenzene
Concen: 47.621 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 91 Resp: 372312

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.1	33.1





#79
2-Chlorotoluene
Concen: 47.045 ug/l
RT: 11.348 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

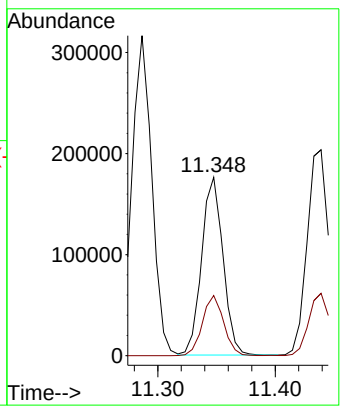
Tgt Ion: 91 Resp: 22221

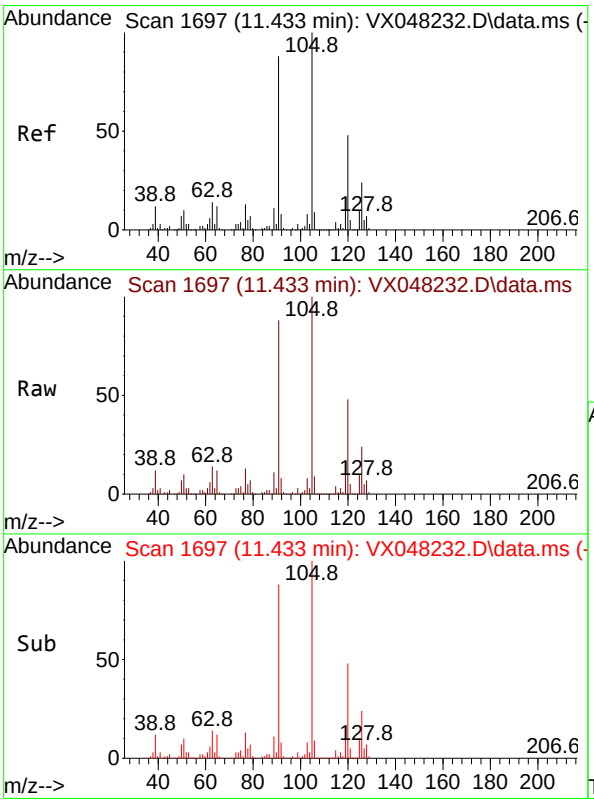
Ion	Ratio	Lower	Upper
91	100		
126	33.8	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

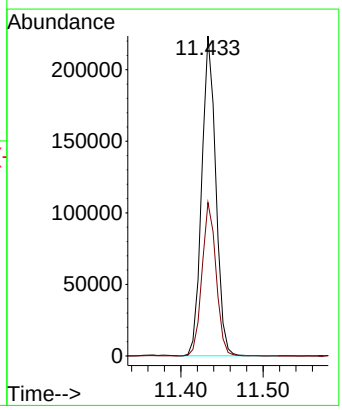


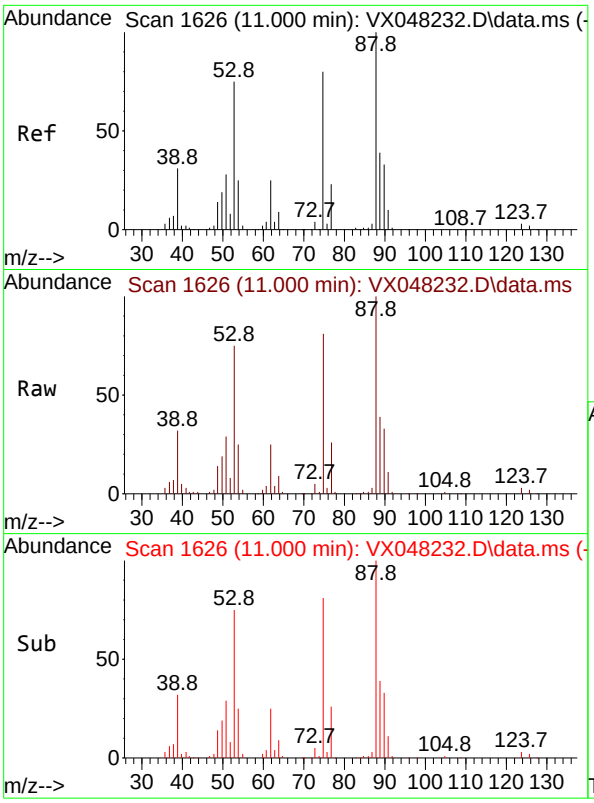


#80
1,3,5-Trimethylbenzene
Concen: 50.108 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:105 Resp: 265174

Ion	Ratio	Lower	Upper
105	100		
120	48.1	24.0	72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 50.678 ug/l
RT: 11.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

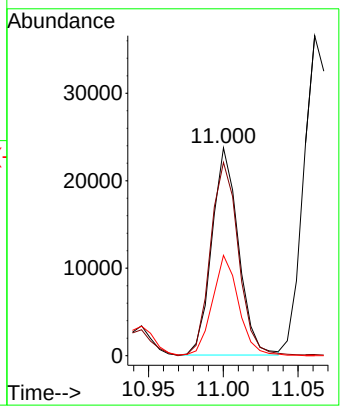
Tgt Ion: 75 Resp: 2929

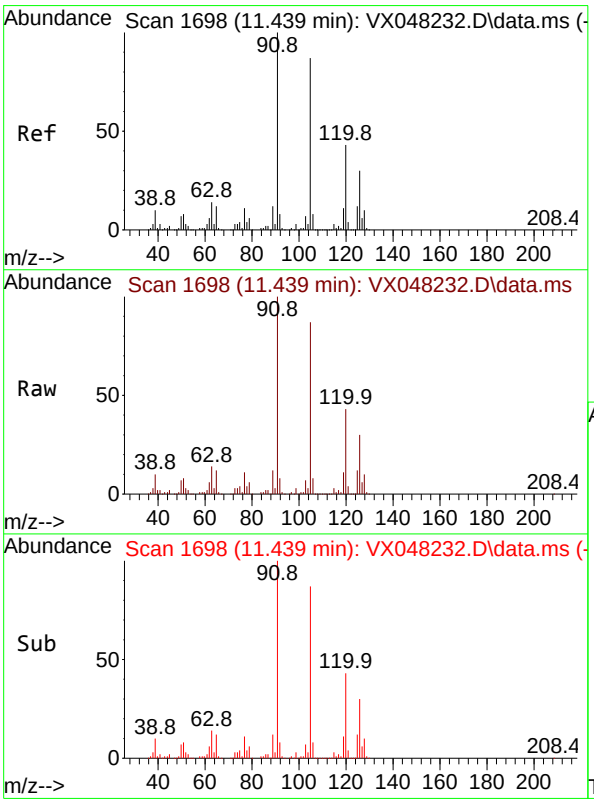
Ion	Ratio	Lower	Upper
75	100		
53	98.5	79.5	119.3
89	48.0	36.8	55.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

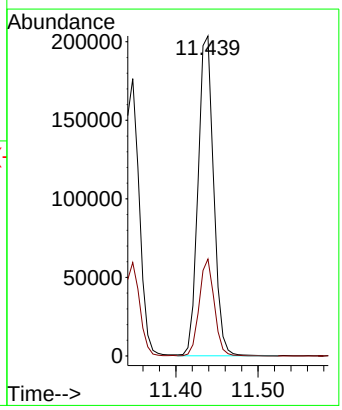


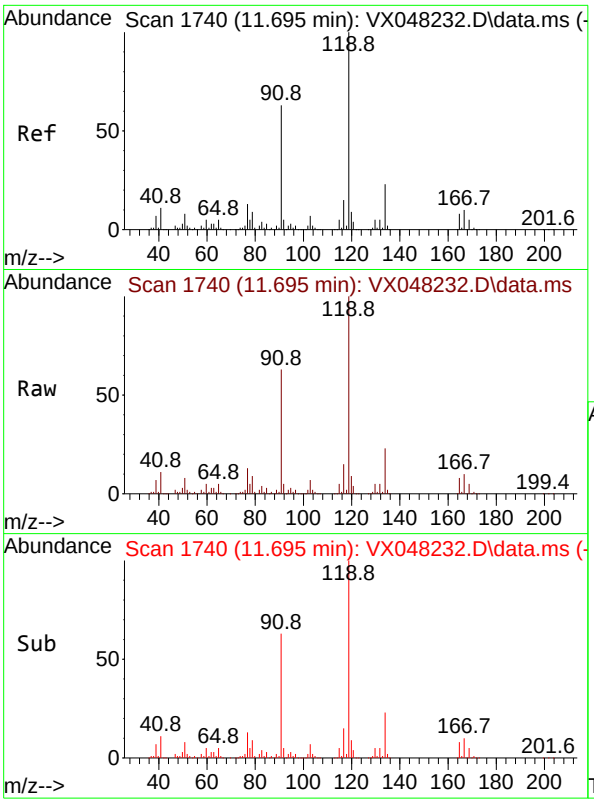


#82
4-Chlorotoluene
Concen: 48.142 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 91 Resp: 267236

Ion	Ratio	Lower	Upper
91	100		
126	29.3	14.1	42.4





#83
tert-Butylbenzene
Concen: 50.539 ug/l
RT: 11.695 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

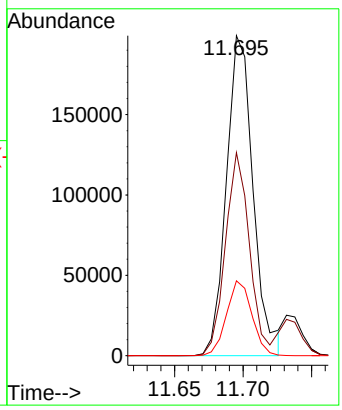
Tgt Ion:119 Resp: 27020

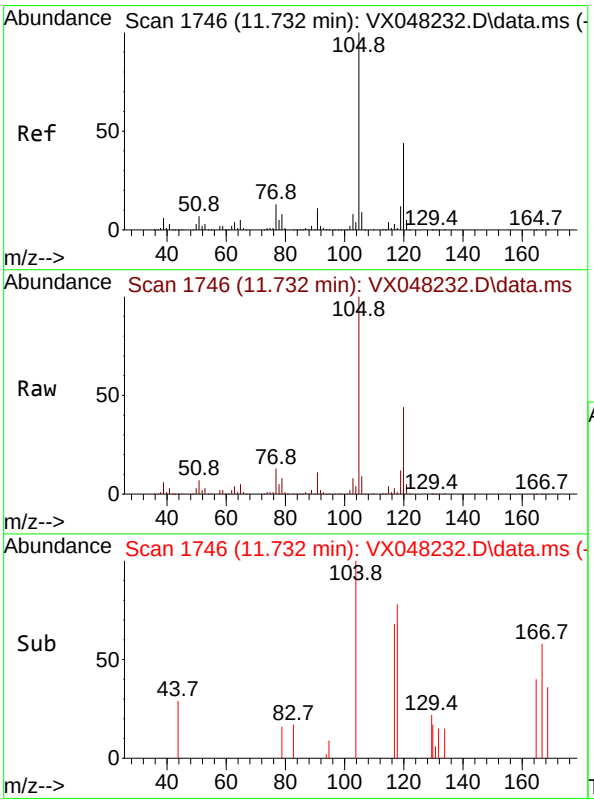
Ion	Ratio	Lower	Upper
119	100		
91	57.2	30.3	91.0
134	22.2	11.4	34.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

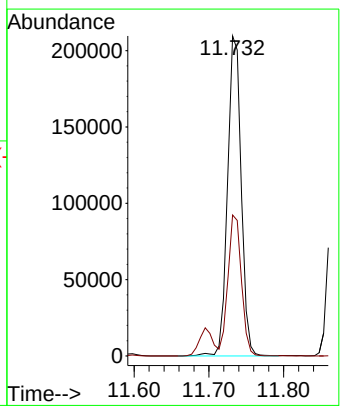


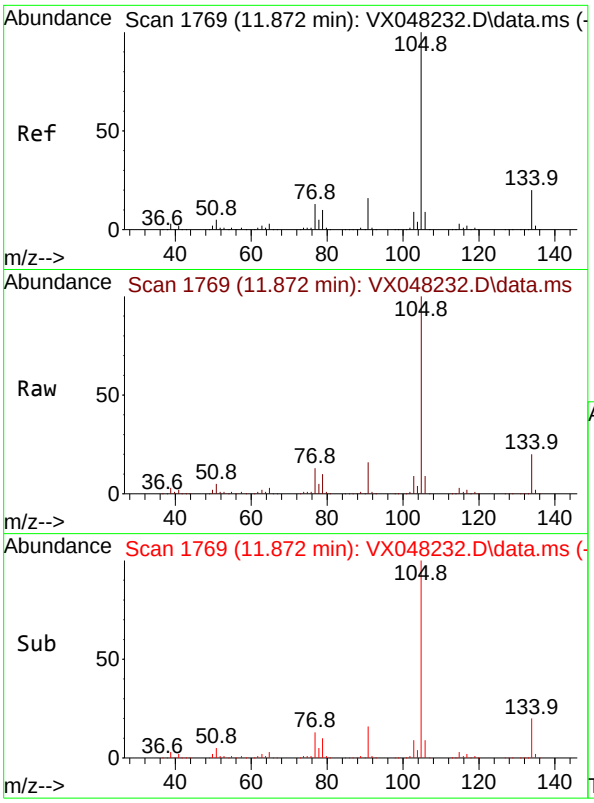


#84
1,2,4-Trimethylbenzene
Concen: 50.381 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:105 Resp: 265485

Ion	Ratio	Lower	Upper
105	100		
120	43.5	22.1	66.5

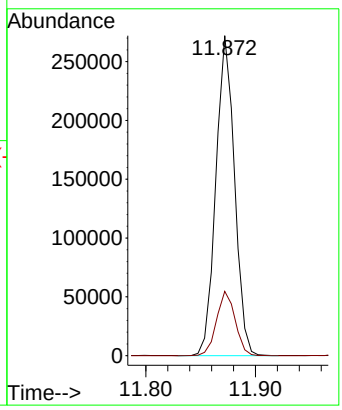




#85
sec-Butylbenzene
Concen: 49.298 ug/l
RT: 11.872 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:105 Resp: 32221

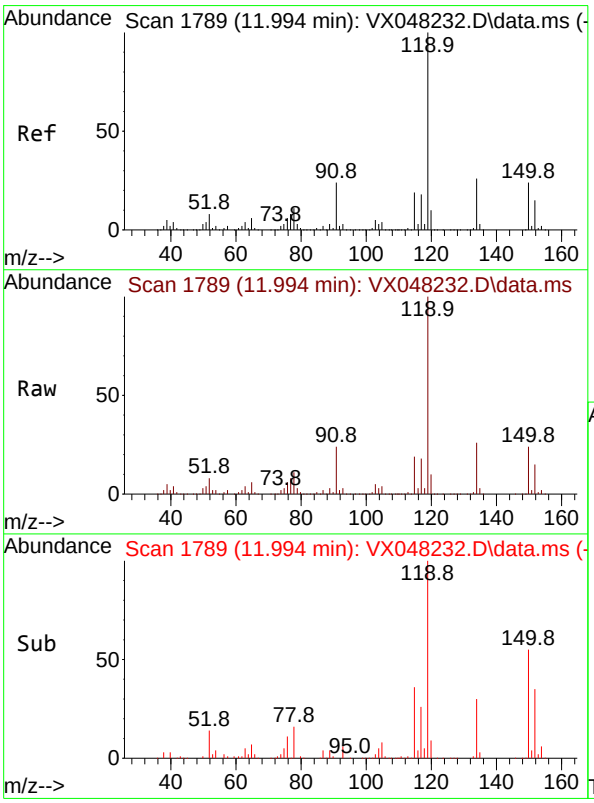
Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

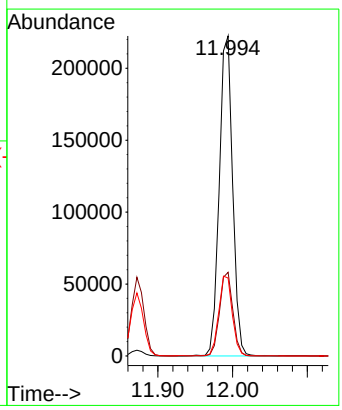
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

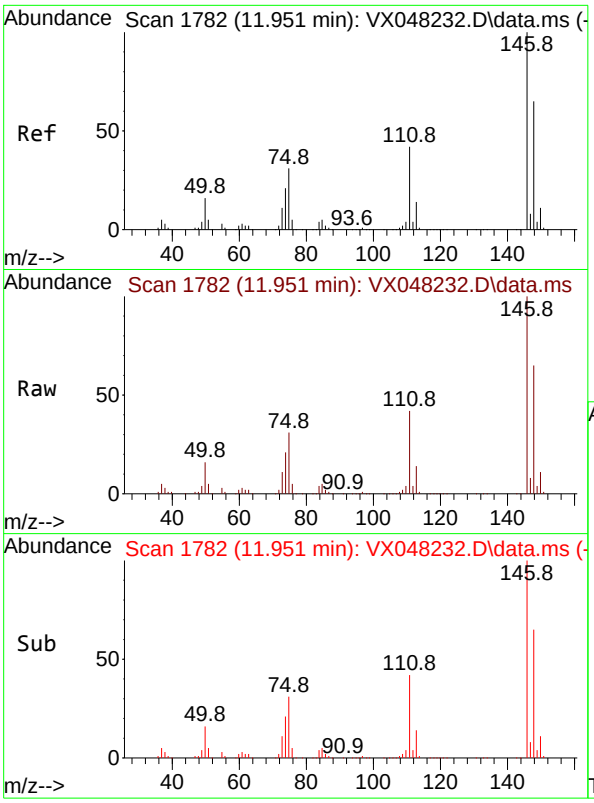


#86
p-Isopropyltoluene
Concen: 50.246 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:119 Resp: 276821

Ion	Ratio	Lower	Upper
119	100		
134	25.9	13.0	39.0
91	25.3	12.1	36.3

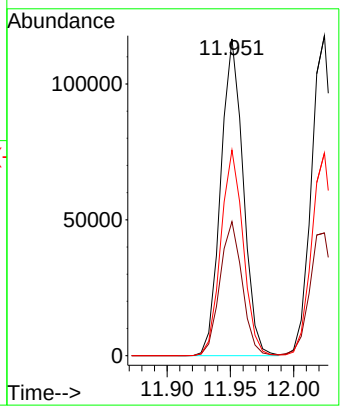




#87
1,3-Dichlorobenzene
Concen: 47.627 ug/l
RT: 11.951 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:146 Resp: 14369

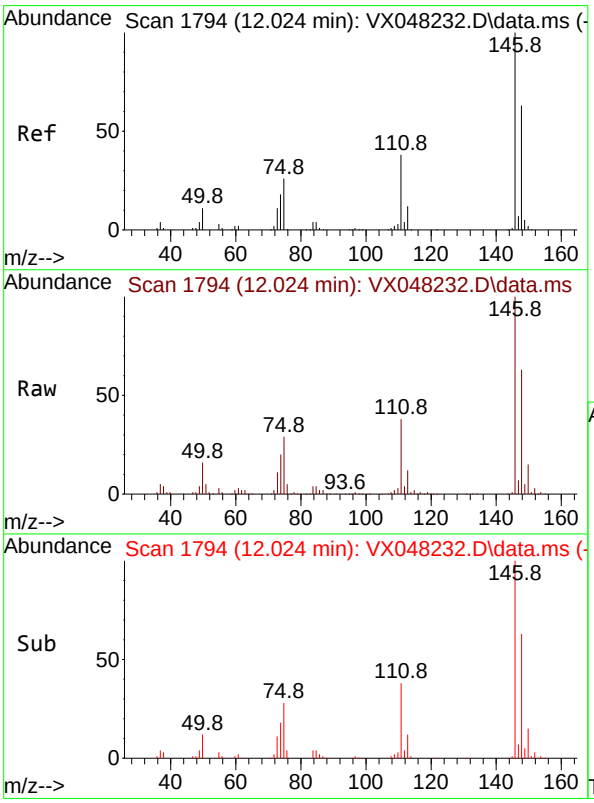
Ion	Ratio	Lower	Upper
146	100		
111	42.1	20.4	61.2
148	64.6	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

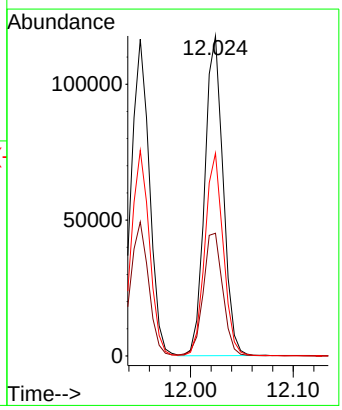
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

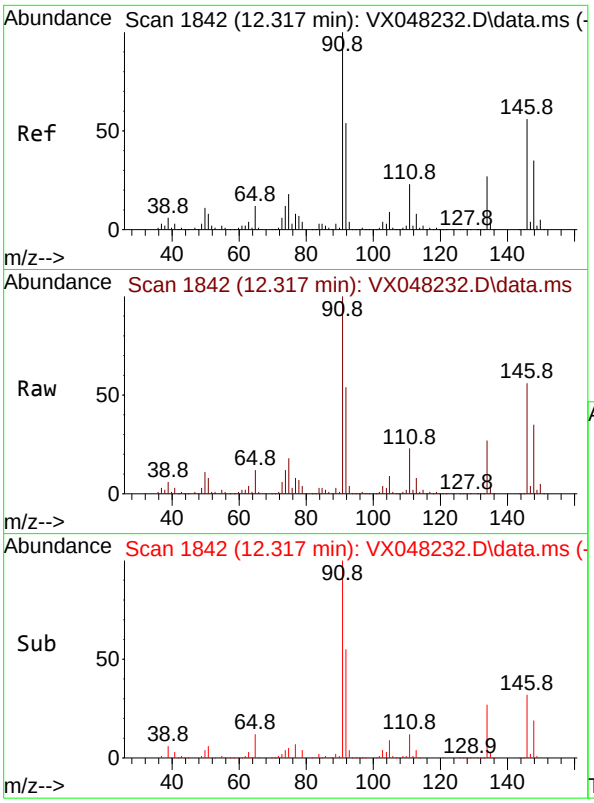


#88
1,4-Dichlorobenzene
Concen: 46.744 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:146 Resp: 146196

Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.1	60.2
148	63.3	31.8	95.3

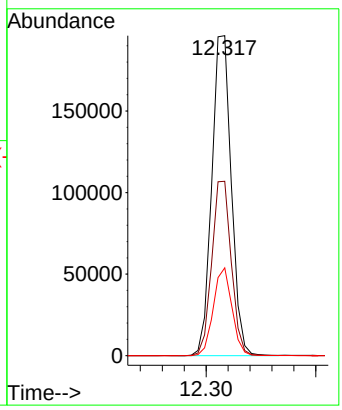




#89
n-Butylbenzene
Concen: 47.367 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 91 Resp: 24306

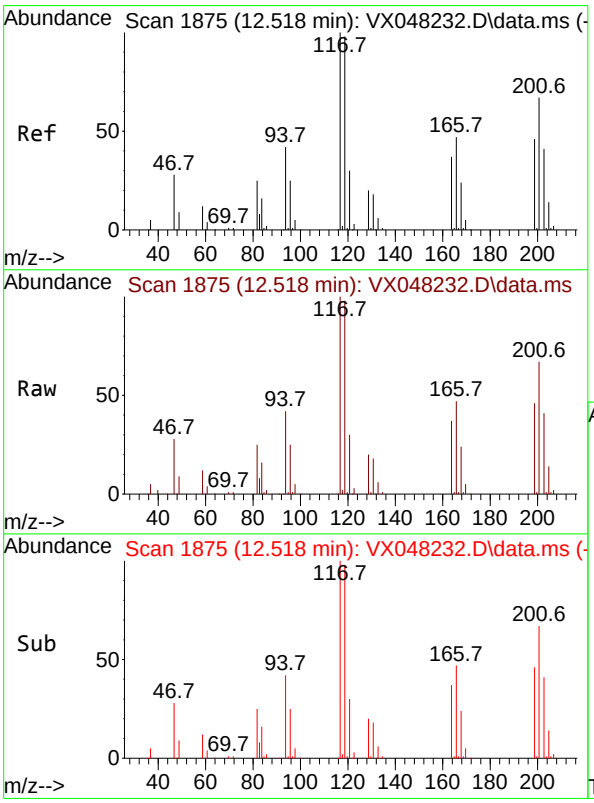
Ion	Ratio	Lower	Upper
91	100		
92	54.5	26.9	80.6
134	26.2	12.7	38.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

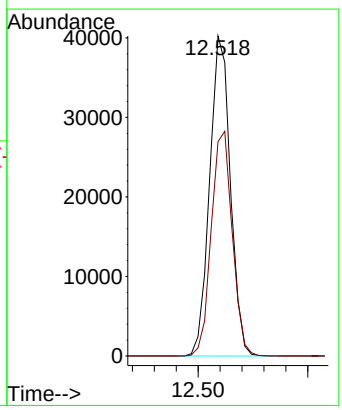
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

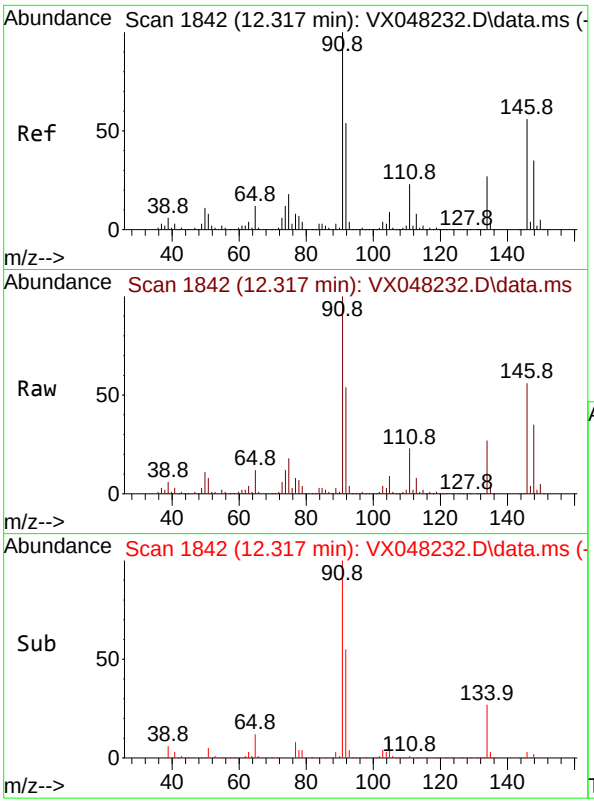


#90
Hexachloroethane
Concen: 45.350 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:117 Resp: 52735

Ion	Ratio	Lower	Upper
117	100		
201	71.2	34.1	102.2

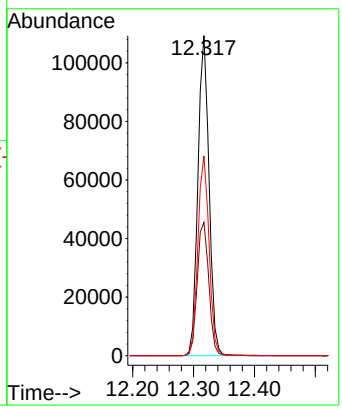




#91
1,2-Dichlorobenzene
Concen: 48.582 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:146 Resp: 13848

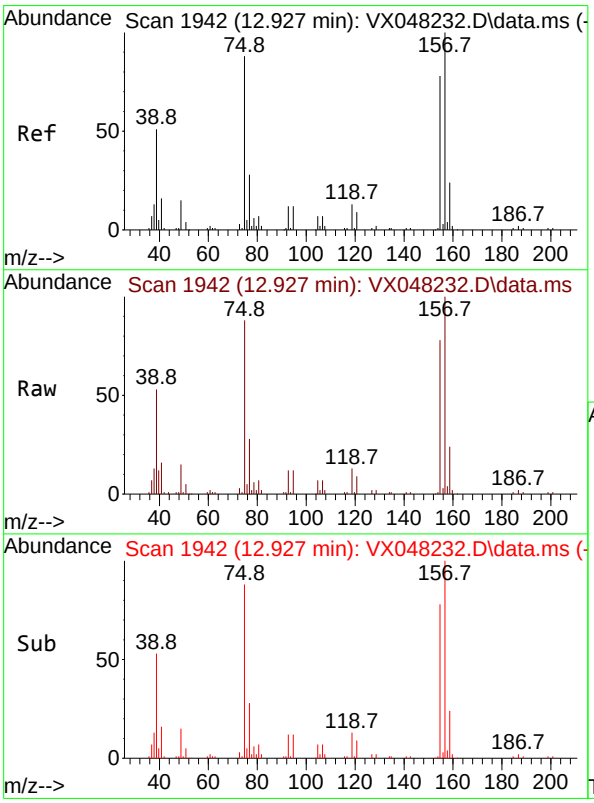
Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.9	65.5
148	62.9	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

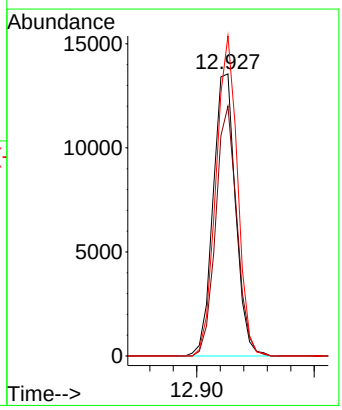
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

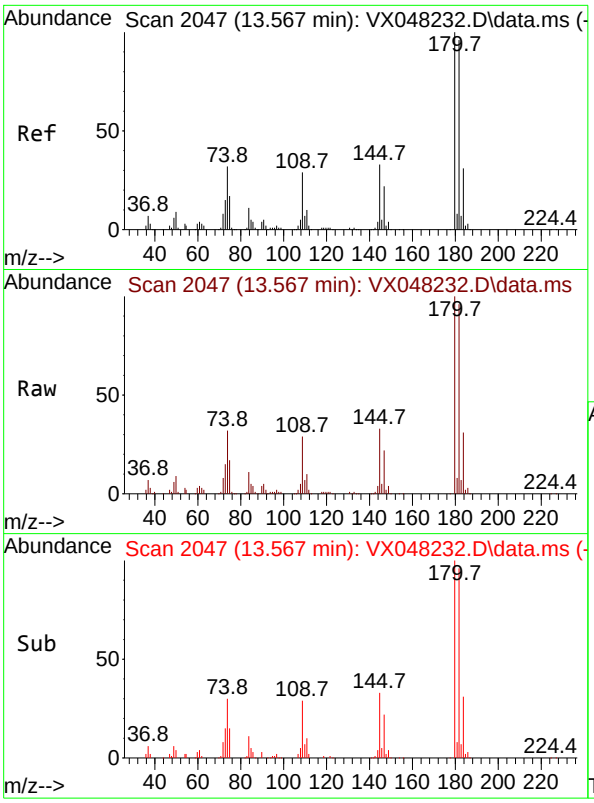


#92
1,2-Dibromo-3-Chloropropane
Concen: 54.111 ug/l
RT: 12.927 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 75 Resp: 18059

Ion	Ratio	Lower	Upper
75	100		
155	83.5	42.8	128.4
157	108.0	54.2	162.6

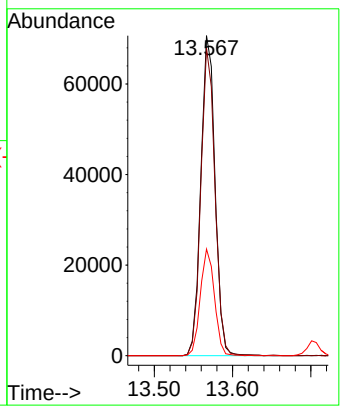




#93
1,2,4-Trichlorobenzene
Concen: 52.839 ug/l
RT: 13.567 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:180 Resp: 8892

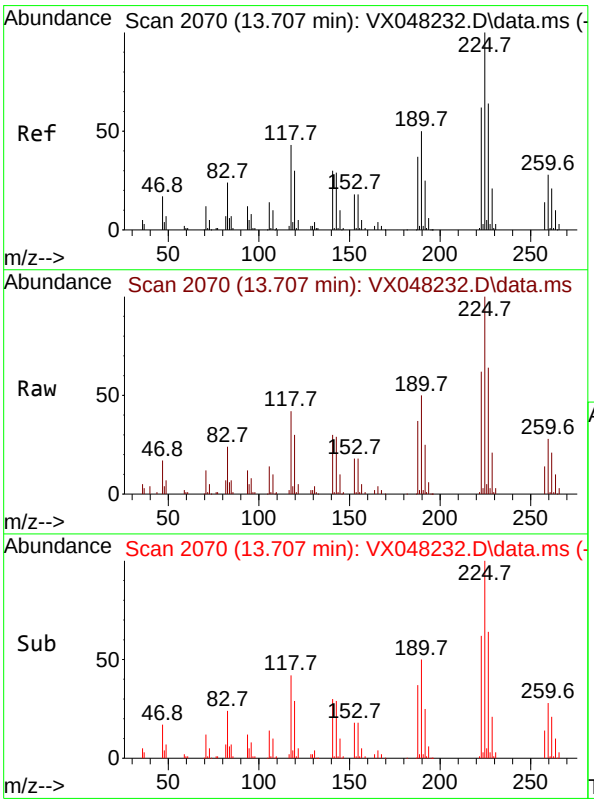
Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.3	142.0
145	33.1	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

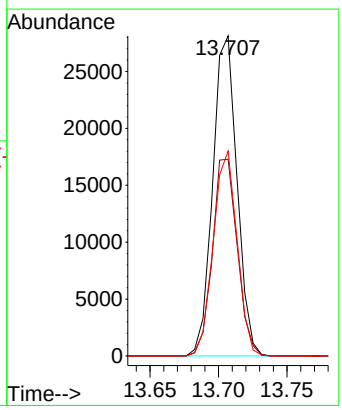
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

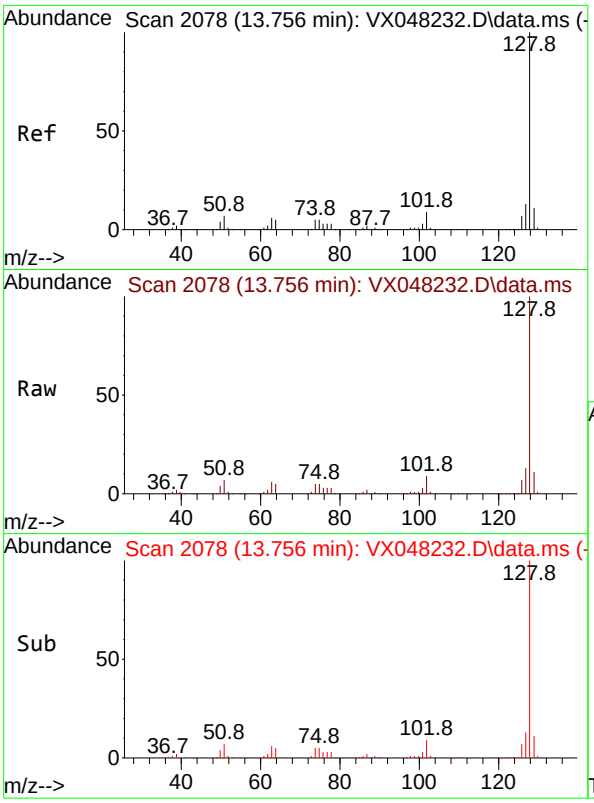


#94
Hexachlorobutadiene
Concen: 53.334 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:225 Resp: 34615

Ion	Ratio	Lower	Upper
225	100		
223	63.0	32.6	97.7
227	62.9	32.5	97.4

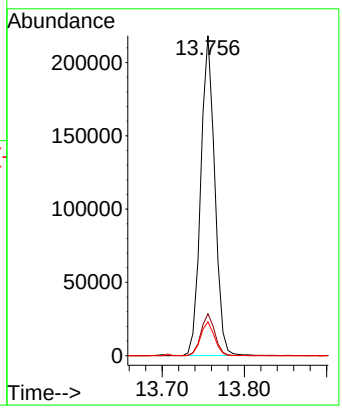




#95
Naphthalene
Concen: 57.999 ug/l
RT: 13.756 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:128 Resp: 25728

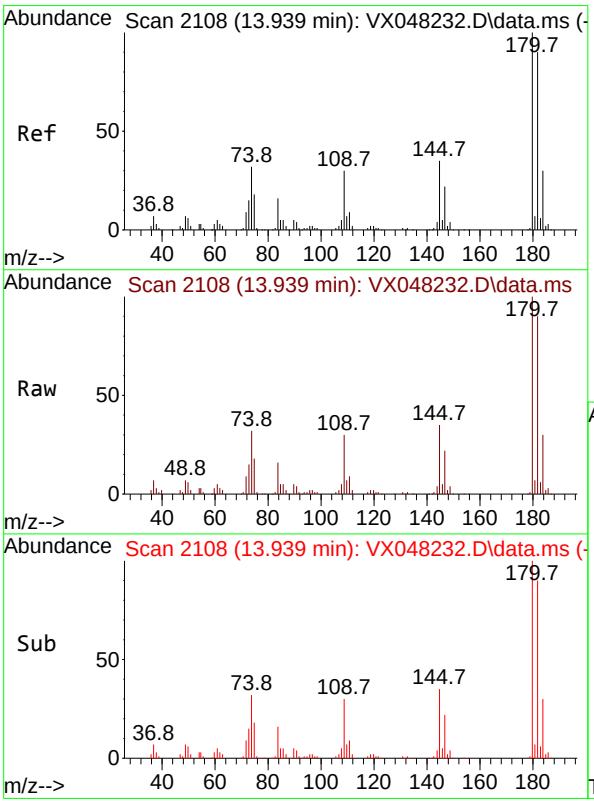
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.4
129	10.6	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

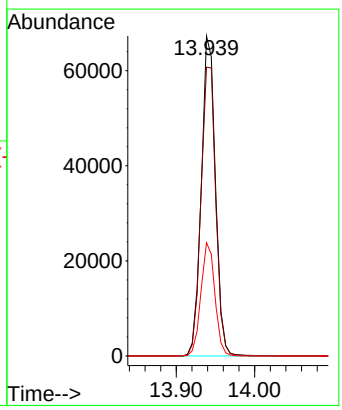
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 54.281 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:180 Resp: 84279

Ion	Ratio	Lower	Upper
180	100		
182	94.5	46.6	139.7
145	35.0	16.9	50.7



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048233.D
Acq On : 20 Oct 2025 12:22
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 12:46:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 12:35:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	117551	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.750	114	187766	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.036	117	163588	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	80621	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	162188	89.060	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 178.120%#			
35) Dibromofluoromethane	5.373	113	129919	99.697	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 199.400%#			
50) Toluene-d8	8.634	98	448948	95.629	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 191.260%#			
62) 4-Bromofluorobenzene	11.061	95	167565	97.996	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 196.000%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	127029	102.960	ug/l	97
3) Chloromethane	1.300	50	111895	74.863	ug/l	100
4) Vinyl Chloride	1.379	62	108564	68.931	ug/l	100
5) Bromomethane	1.605	94	65752	62.780	ug/l	99
6) Chloroethane	1.690	64	66332	66.181	ug/l	92
7) Trichlorofluoromethane	1.892	101	213301	86.283	ug/l	98
8) Diethyl Ether	2.135	74	58302	69.141	ug/l	88
9) 1,1,2-Trichlorotrifluo...	2.337	101	136951	98.309	ug/l	96
10) Methyl Iodide	2.452	142	183697	110.092	ug/l	99
11) Tert butyl alcohol	2.952	59	78284	647.864	ug/l	99
12) 1,1-Dichloroethene	2.324	96	131152	96.282	ug/l	93
13) Acrolein	2.239	56	87244	343.554	ug/l	100
14) Allyl chloride	2.666	41	214290	87.456	ug/l	98
15) Acrylonitrile	3.056	53	298022	514.707	ug/l	100
16) Acetone	2.373	43	260058	418.616	ug/l	99
17) Carbon Disulfide	2.513	76	380127	90.700	ug/l	99
18) Methyl Acetate	2.702	43	120920	95.565	ug/l	93
19) Methyl tert-butyl Ether	3.111	73	427254	104.130	ug/l	97
20) Methylene Chloride	2.788	84	140317	92.718	ug/l	93
21) trans-1,2-Dichloroethene	3.093	96	139080	98.694	ug/l	96
22) Diisopropyl ether	3.751	45	420126	87.566	ug/l	89
23) Vinyl Acetate	3.714	43	1723170	480.325	ug/l	96
24) 1,1-Dichloroethane	3.605	63	248141	91.164	ug/l	99
25) 2-Butanone	4.543	43	353741	488.753	ug/l	98
26) 2,2-Dichloropropane	4.470	77	228643	98.275	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	163444	97.727	ug/l	98
28) Bromochloromethane	4.885	49	108536	86.505	ug/l	86
29) Tetrahydrofuran	4.989	42	216543	509.471	ug/l	93
30) Chloroform	5.080	83	264966	92.461	ug/l	98
31) Cyclohexane	5.464	56	217717	97.754	ug/l	91
32) 1,1,1-Trichloroethane	5.373	97	248018	105.334	ug/l	98
36) 1,1-Dichloropropene	5.684	75	183932	100.194	ug/l	99
37) Ethyl Acetate	4.702	43	153844	104.863	ug/l	99
38) Carbon Tetrachloride	5.665	117	226976	107.719	ug/l	99
39) Methylcyclohexane	7.366	83	235208	113.637	ug/l	95
40) Benzene	6.025	78	535407	98.221	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048233.D
Acq On : 20 Oct 2025 12:22
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 12:46:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 12:35:14 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.909	41	83790	106.641 ug/l		97
42) 1,2-Dichloroethane	6.074	62	198348	101.562 ug/l		99
43) Isopropyl Acetate	6.324	43	256067	103.976 ug/l		95
44) Trichloroethene	7.110	130	142779	103.931 ug/l		99
45) 1,2-Dichloropropane	7.415	63	130188	94.368 ug/l		96
46) Dibromomethane	7.567	93	98105	98.835 ug/l		94
47) Bromodichloromethane	7.805	83	215302	100.358 ug/l		99
48) Methyl methacrylate	7.677	41	131454	104.272 ug/l		95
49) 1,4-Dioxane	7.647	88	35972	3169.845 ug/l		89
51) 4-Methyl-2-Pentanone	8.561	43	720980	526.103 ug/l		94
52) Toluene	8.701	92	341597	104.263 ug/l		99
53) t-1,3-Dichloropropene	8.963	75	215736	107.341 ug/l		99
54) cis-1,3-Dichloropropene	8.354	75	231037	105.465 ug/l		94
55) 1,1,2-Trichloroethane	9.134	97	124910	102.180 ug/l		98
56) Ethyl methacrylate	9.104	69	196699	118.305 ug/l		94
57) 1,3-Dichloropropane	9.293	76	214853	100.598 ug/l		100
58) 2-Chloroethyl Vinyl ether	8.226	63	505448	592.044 ug/l		96
59) 2-Hexanone	9.415	43	509398	531.416 ug/l		95
60) Dibromochloromethane	9.506	129	166167	108.598 ug/l		100
61) 1,2-Dibromoethane	9.591	107	134662	107.431 ug/l		97
64) Tetrachloroethene	9.256	164	121163	105.633 ug/l		97
65) Chlorobenzene	10.061	112	375532	104.990 ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.146	131	140599	109.080 ug/l		97
67) Ethyl Benzene	10.177	91	656925	107.128 ug/l		98
68) m/p-Xylenes	10.286	106	490879	214.875 ug/l		100
69) o-Xylene	10.622	106	236648	110.042 ug/l		100
70) Styrene	10.640	104	407916	110.197 ug/l		99
71) Bromoform	10.780	173	109613	115.806 ug/l	#	98
73) Isopropylbenzene	10.945	105	624767	111.418 ug/l		99
74) N-amyl acetate	10.829	43	228080	109.030 ug/l		95
75) 1,1,2,2-Tetrachloroethane	11.195	83	164207	103.367 ug/l		99
76) 1,2,3-Trichloropropane	11.219	75	130599m	106.083 ug/l		
77) Bromobenzene	11.183	156	153619	109.475 ug/l		93
78) n-propylbenzene	11.286	91	732684	107.747 ug/l		98
79) 2-Chlorotoluene	11.347	91	434217	105.691 ug/l		100
80) 1,3,5-Trimethylbenzene	11.432	105	519549	112.876 ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	59059	117.466 ug/l		98
82) 4-Chlorotoluene	11.439	91	506861	104.983 ug/l		98
83) tert-Butylbenzene	11.695	119	529264	113.817 ug/l		98
84) 1,2,4-Trimethylbenzene	11.731	105	523474	114.214 ug/l		99
85) sec-Butylbenzene	11.871	105	639904	112.562 ug/l		100
86) p-Isopropyltoluene	11.987	119	548119	114.386 ug/l		98
87) 1,3-Dichlorobenzene	11.951	146	281617	107.314 ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	277908	102.163 ug/l		98
89) n-Butylbenzene	12.316	91	495486	111.016 ug/l		99
90) Hexachloroethane	12.518	117	107057	105.851 ug/l		93
91) 1,2-Dichlorobenzene	12.316	146	261022	105.277 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	36087	124.320 ug/l		97
93) 1,2,4-Trichlorobenzene	13.566	180	179562	122.679 ug/l		100
94) Hexachlorobutadiene	13.706	225	68645	121.605 ug/l		98
95) Naphthalene	13.755	128	511355	132.536 ug/l		99
96) 1,2,3-Trichlorobenzene	13.944	180	169248	125.328 ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048233.D
Acq On : 20 Oct 2025 12:22
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 12:46:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 12:35:14 2025
Response via : Initial Calibration

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

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

ICAL Form

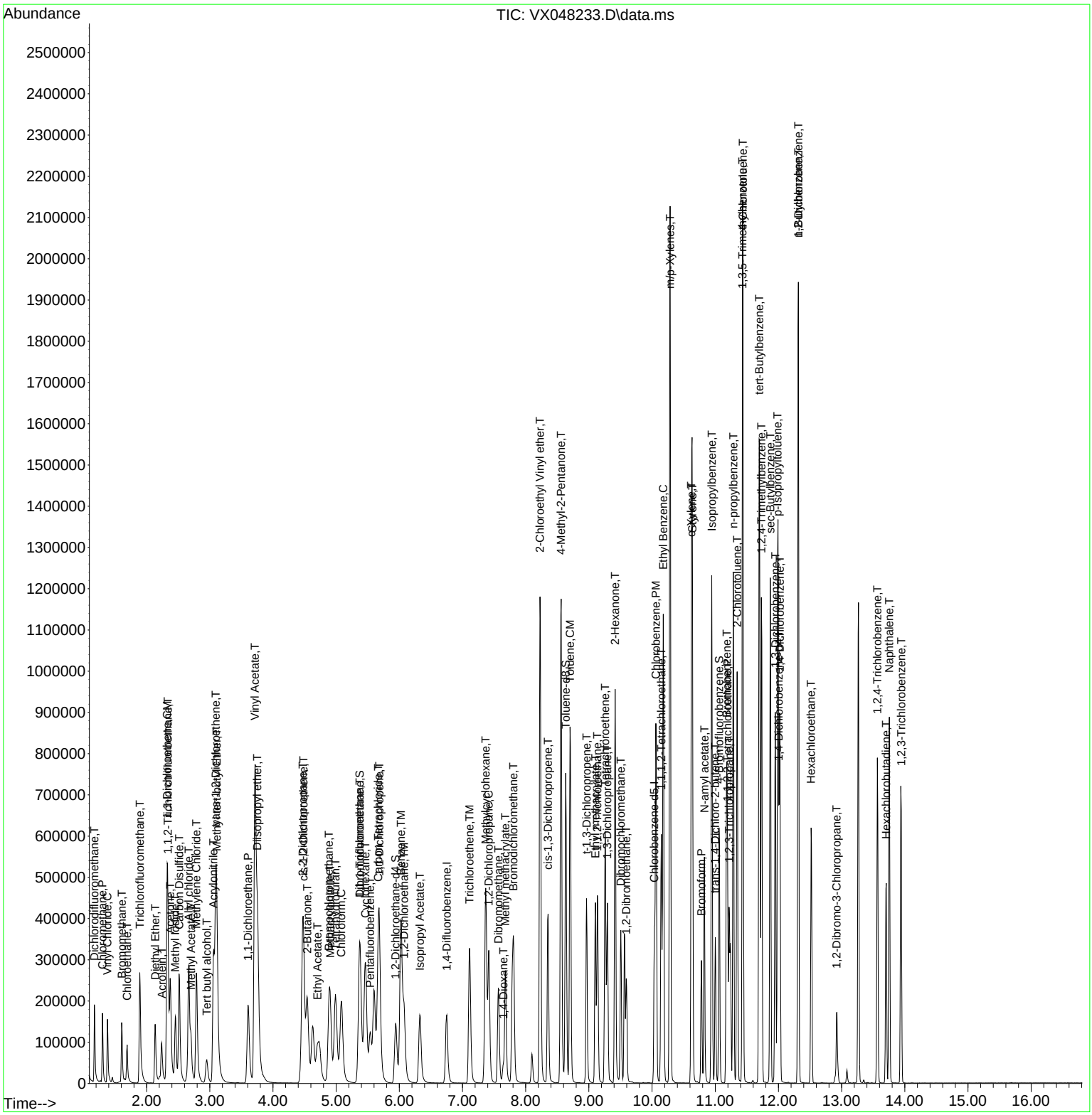
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048233.D
Acq On : 20 Oct 2025 12:22
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

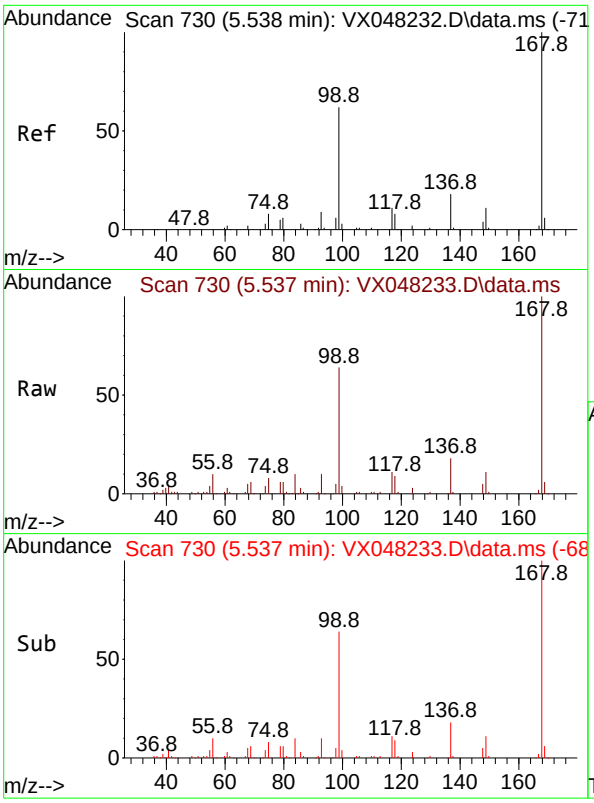
Quant Time: Oct 20 12:46:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 12:35:14 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

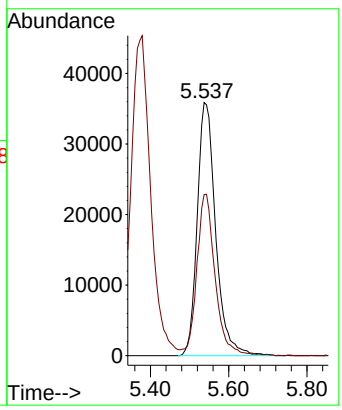




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:168 Resp: 11755

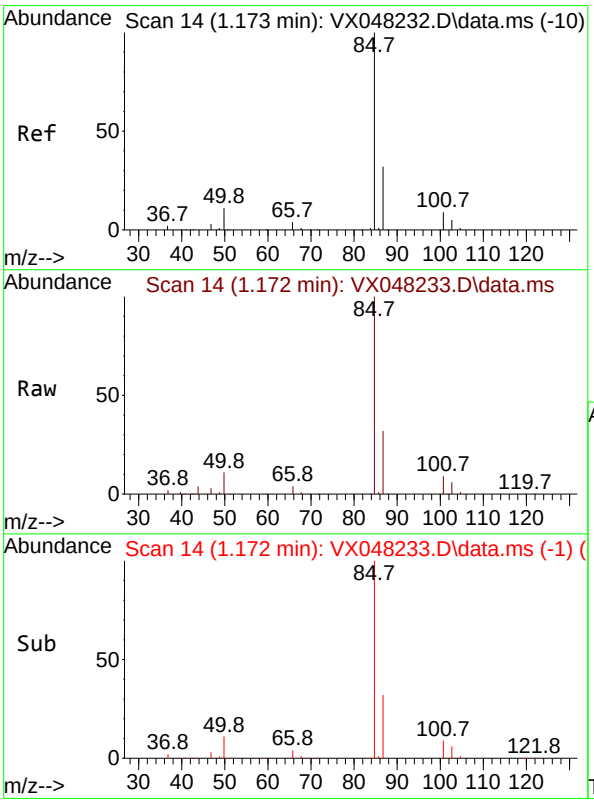
Ion	Ratio	Lower	Upper
168	100		
99	63.4	46.4	69.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

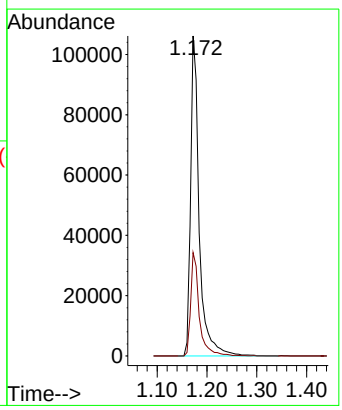
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

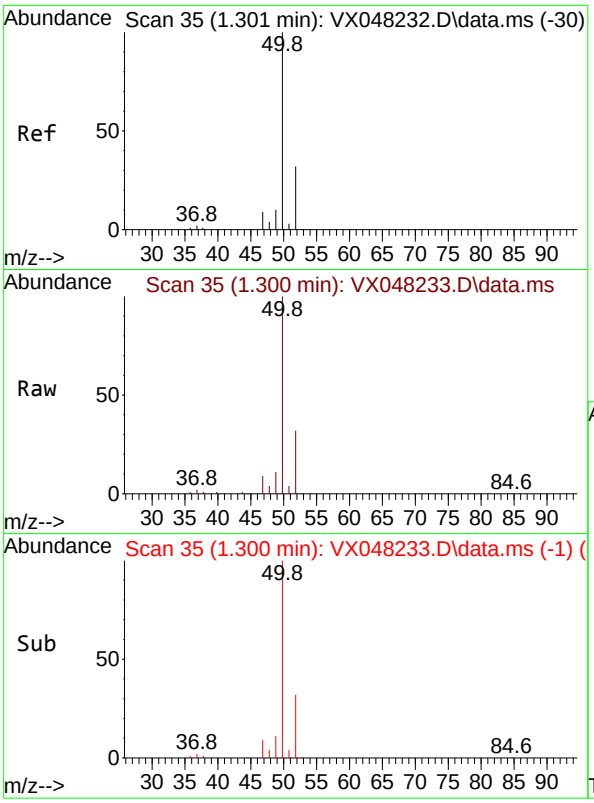


#2
Dichlorodifluoromethane
Concen: 102.960 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 85 Resp: 127029

Ion	Ratio	Lower	Upper
85	100		
87	32.3	15.3	45.9

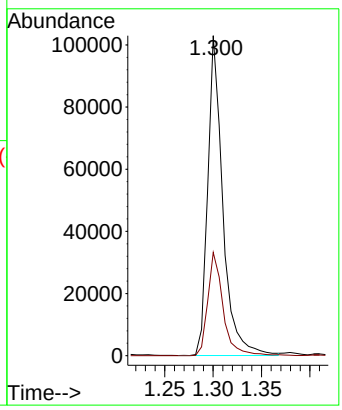




#3
Chloromethane
Concen: 74.863 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 50 Resp: 11189

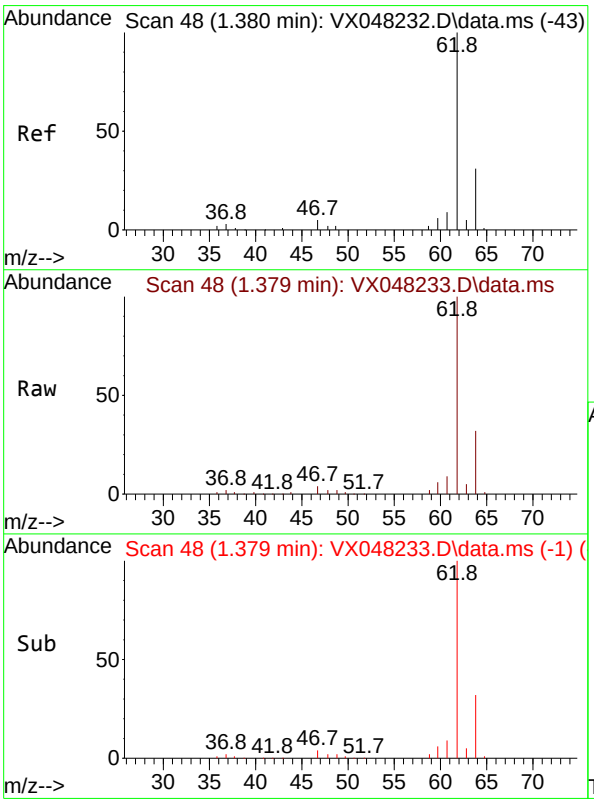
Ion	Ratio	Lower	Upper
50	100		
52	32.2	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

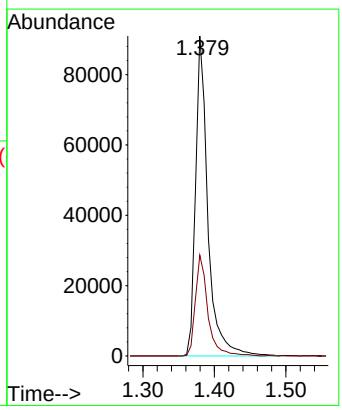
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

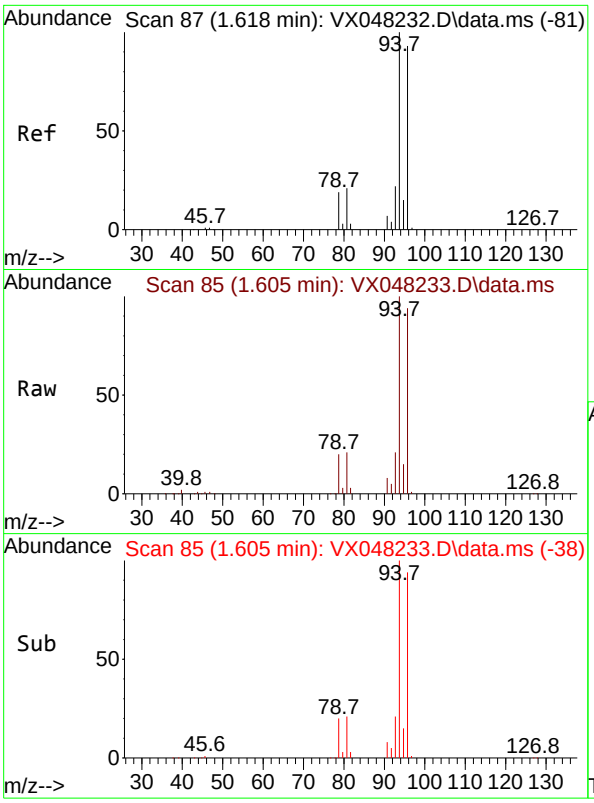


#4
Vinyl Chloride
Concen: 68.931 ug/l
RT: 1.379 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 62 Resp: 108564

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.1	37.7

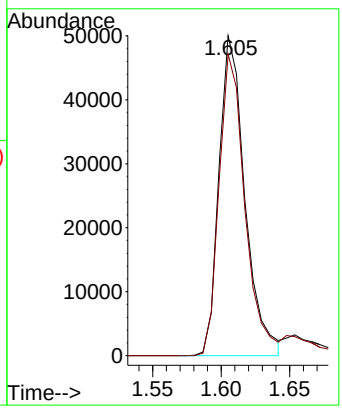




#5
Bromomethane
Concen: 62.780 ug/l
RT: 1.605 min Scan# 8
Delta R.T. -0.013 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 94 Resp: 6575

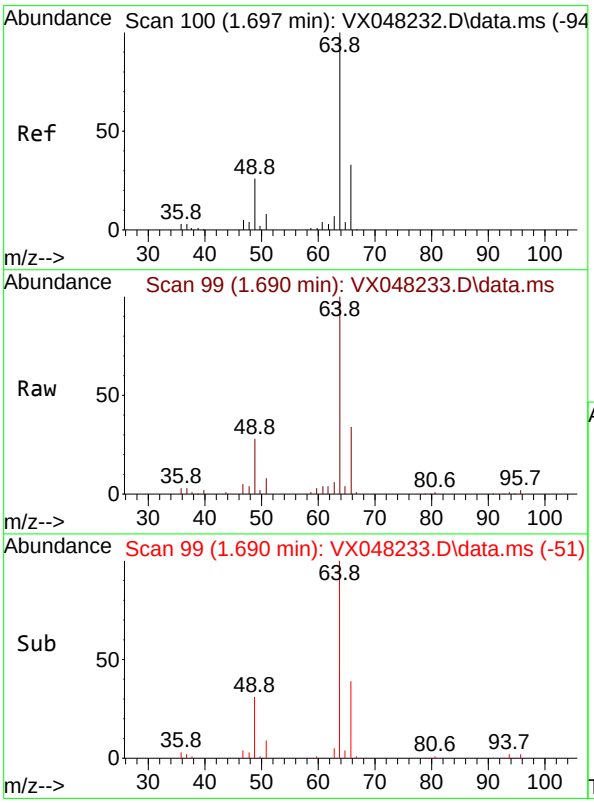
Ion	Ratio	Lower	Upper
94	100		
96	94.3	76.0	114.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

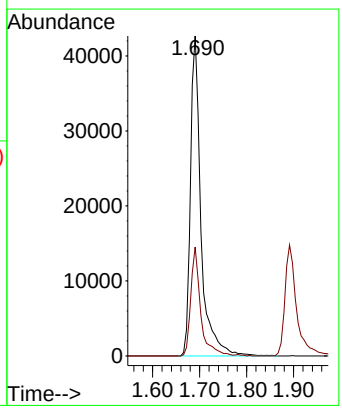
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

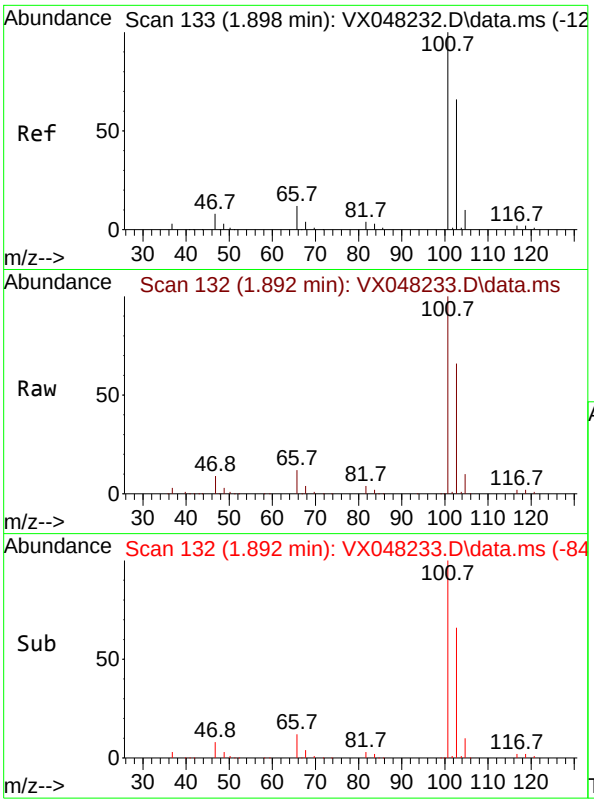


#6
Chloroethane
Concen: 66.181 ug/l
RT: 1.690 min Scan# 99
Delta R.T. -0.007 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 64 Resp: 66332

Ion	Ratio	Lower	Upper
64	100		
66	34.0	23.9	35.9





#7
Trichlorofluoromethane
Concen: 86.283 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.007 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

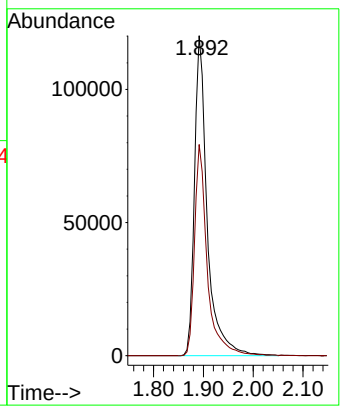
Tgt Ion:101 Resp: 21330

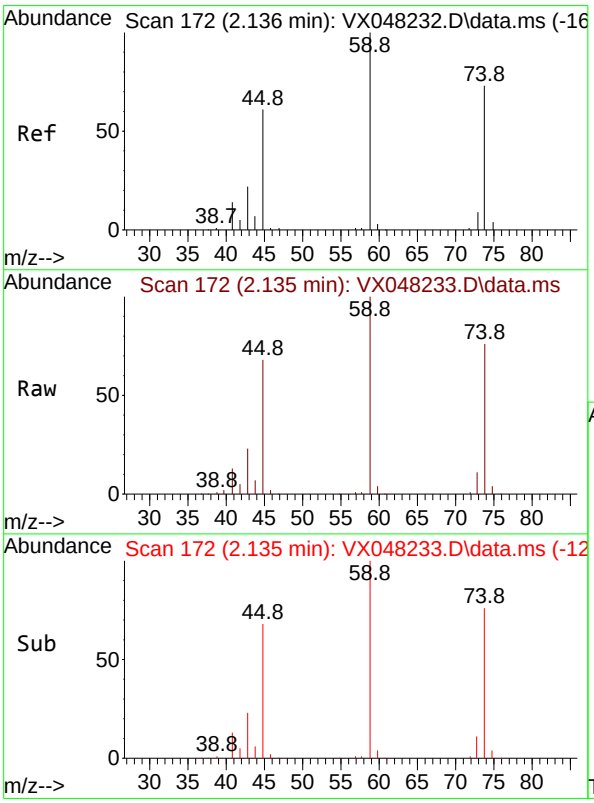
Ion	Ratio	Lower	Upper
101	100		
103	66.0	51.6	77.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

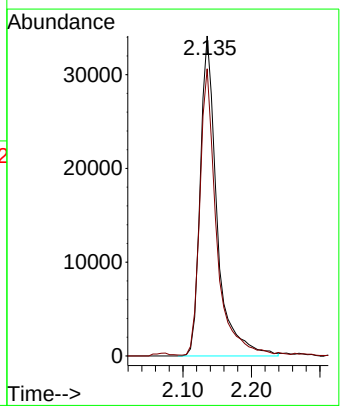


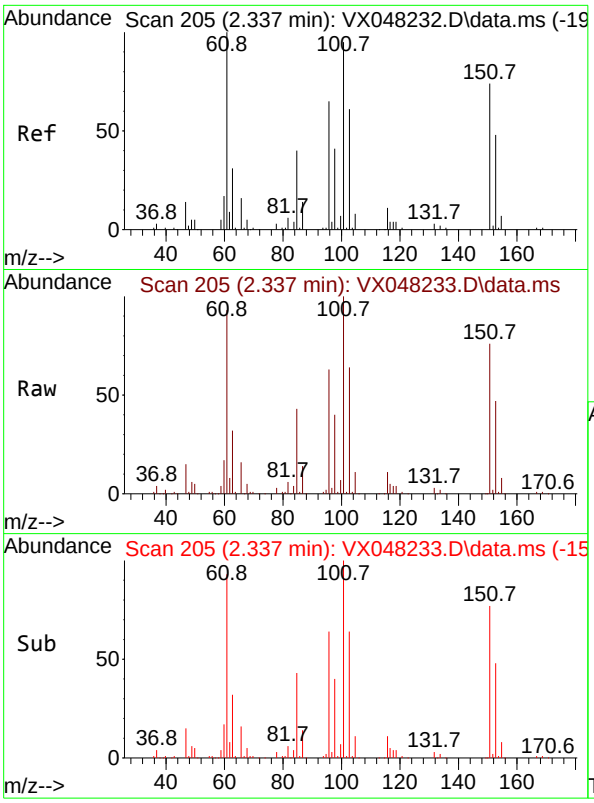


#8
Diethyl Ether
Concen: 69.141 ug/l
RT: 2.135 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 74 Resp: 58302

Ion	Ratio	Lower	Upper
74	100		
45	88.0	50.0	149.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 98.309 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

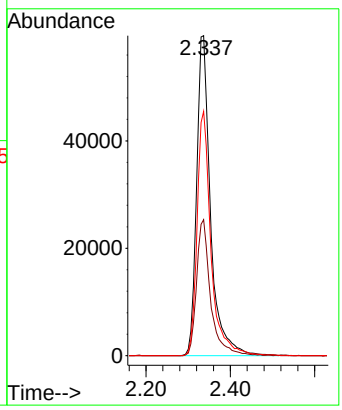
Tgt Ion:101 Resp: 13695

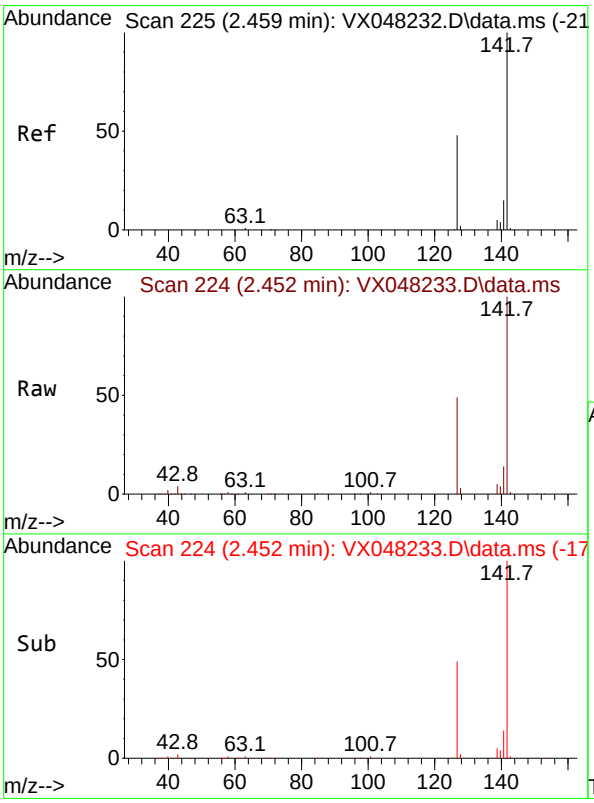
Ion	Ratio	Lower	Upper
101	100		
85	42.9	35.6	53.4
151	76.5	58.0	87.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

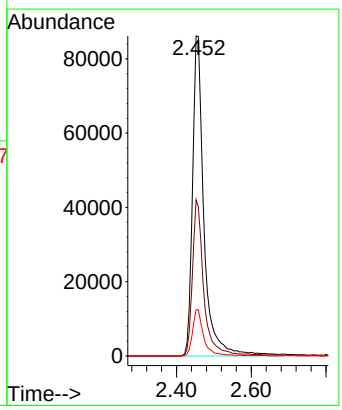


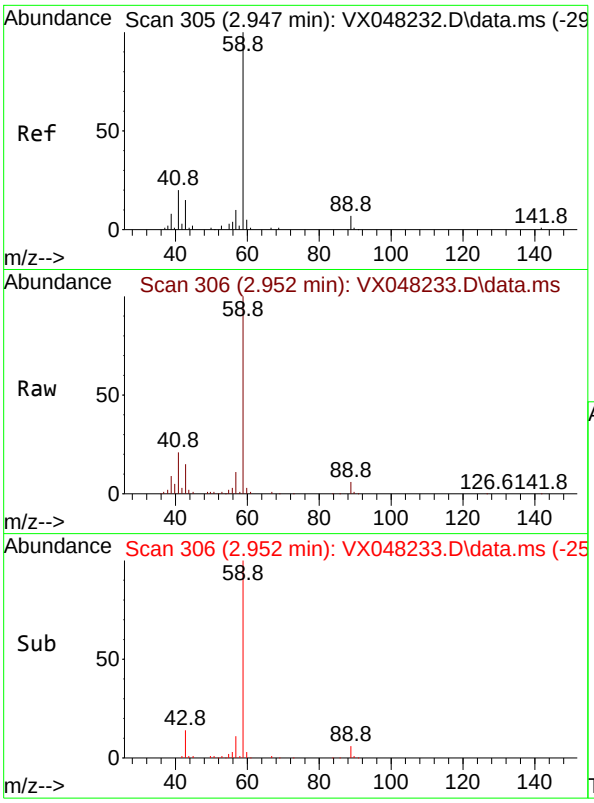


#10
Methyl Iodide
Concen: 110.092 ug/l
RT: 2.452 min Scan# 224
Delta R.T. -0.007 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:142 Resp: 183697

Ion	Ratio	Lower	Upper
142	100		
127	47.6	38.5	57.7
141	14.1	11.6	17.4

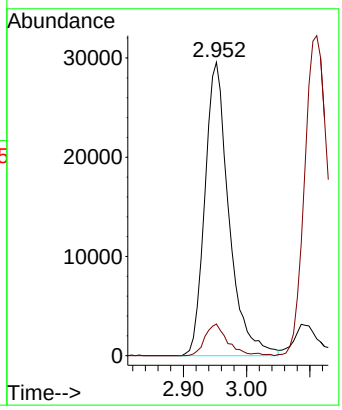




#11
Tert butyl alcohol
Concen: 647.864 ug/l
RT: 2.952 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 59 Resp: 7828

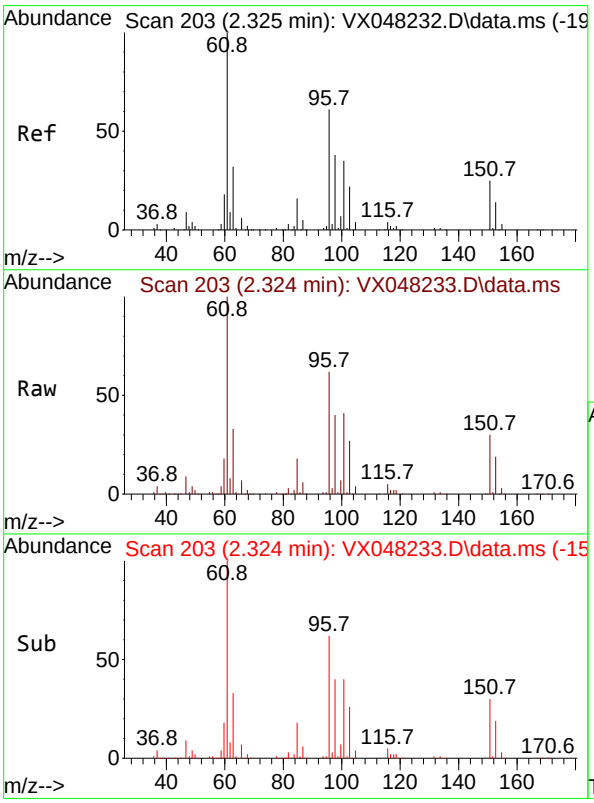
Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.2	12.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

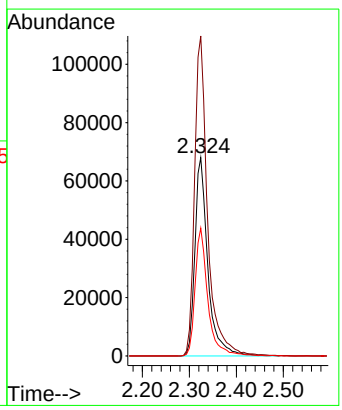
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

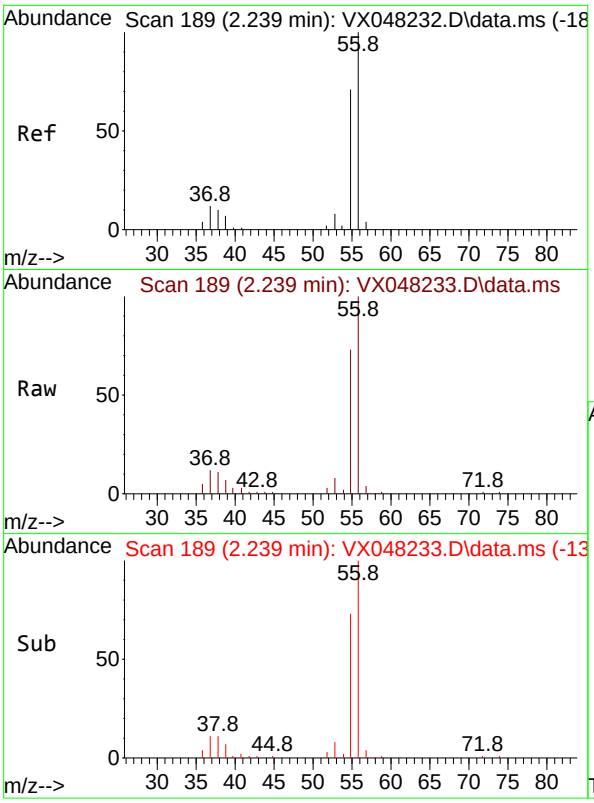


#12
1,1-Dichloroethene
Concen: 96.282 ug/l
RT: 2.324 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 96 Resp: 131152

Ion	Ratio	Lower	Upper
96	100		
61	161.2	139.0	208.6
98	64.4	52.4	78.6

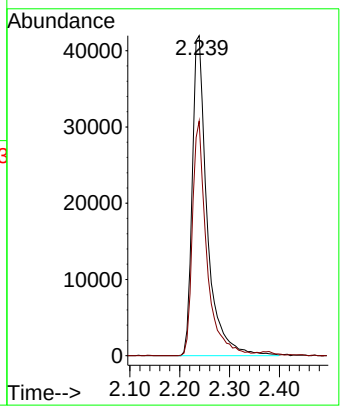




#13
Acrolein
Concen: 343.554 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 56 Resp: 8724

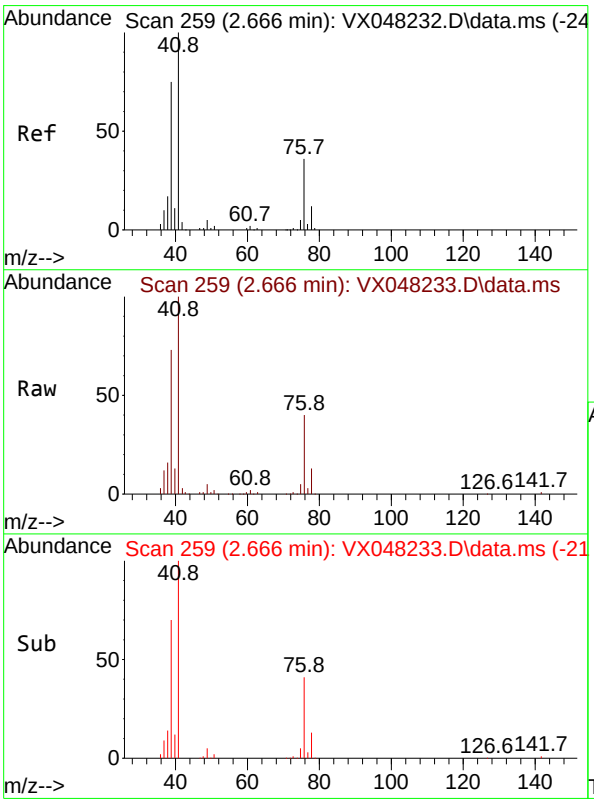
Ion	Ratio	Lower	Upper
56	100		
55	70.2	56.1	84.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

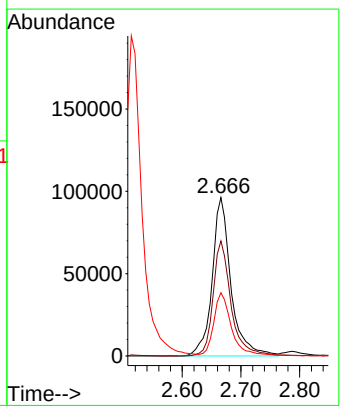
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

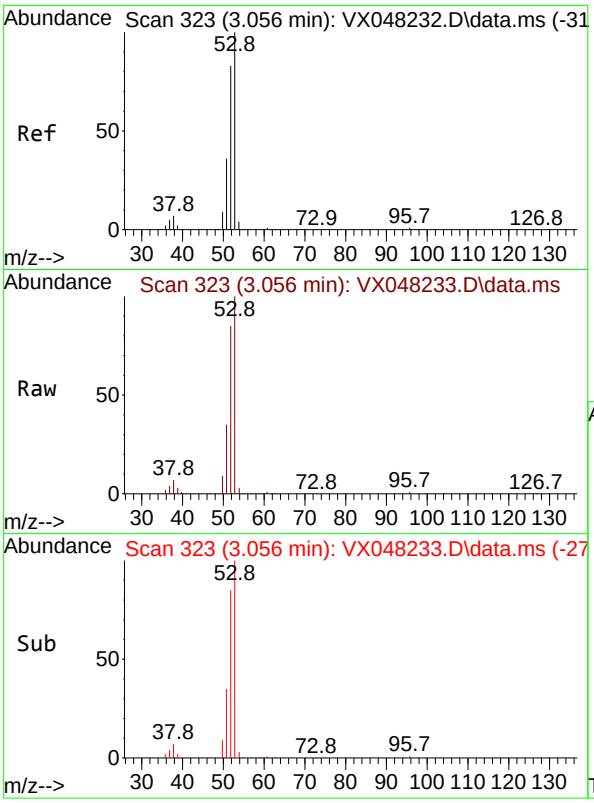


#14
Allyl chloride
Concen: 87.456 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 41 Resp: 214290

Ion	Ratio	Lower	Upper
41	100		
39	69.5	56.0	84.0
76	37.6	27.5	41.3

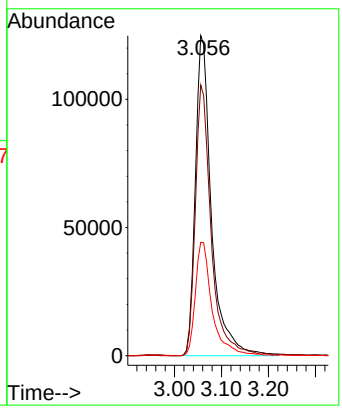




#15
Acrylonitrile
Concen: 514.707 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 53 Resp: 29802

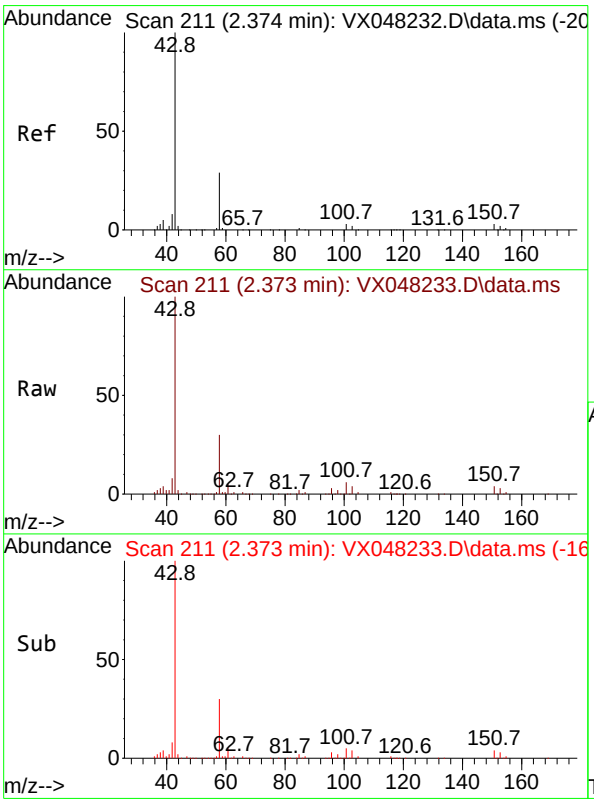
Ion	Ratio	Lower	Upper
53	100		
52	82.7	66.1	99.1
51	37.0	29.0	43.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

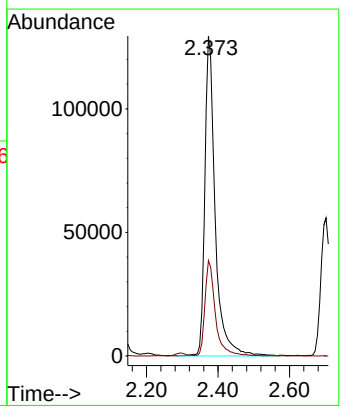
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

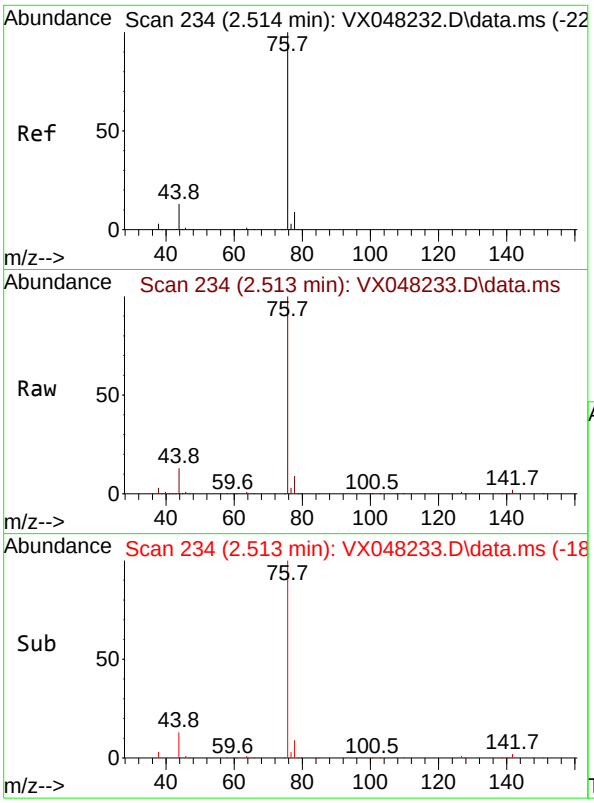


#16
Acetone
Concen: 418.616 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 43 Resp: 260058

Ion	Ratio	Lower	Upper
43	100		
58	29.8	23.4	35.2





#17
Carbon Disulfide
Concen: 90.700 ug/l
RT: 2.513 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

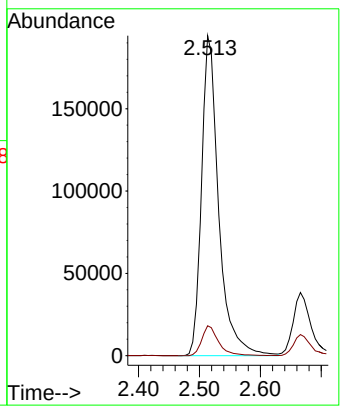
Tgt Ion: 76 Resp: 38012

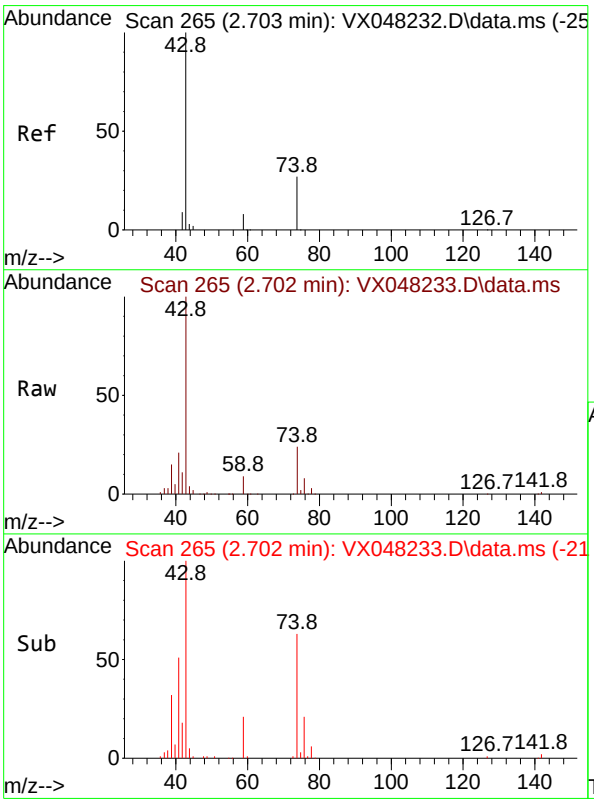
Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.1	10.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

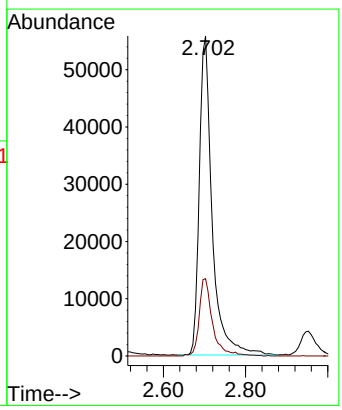


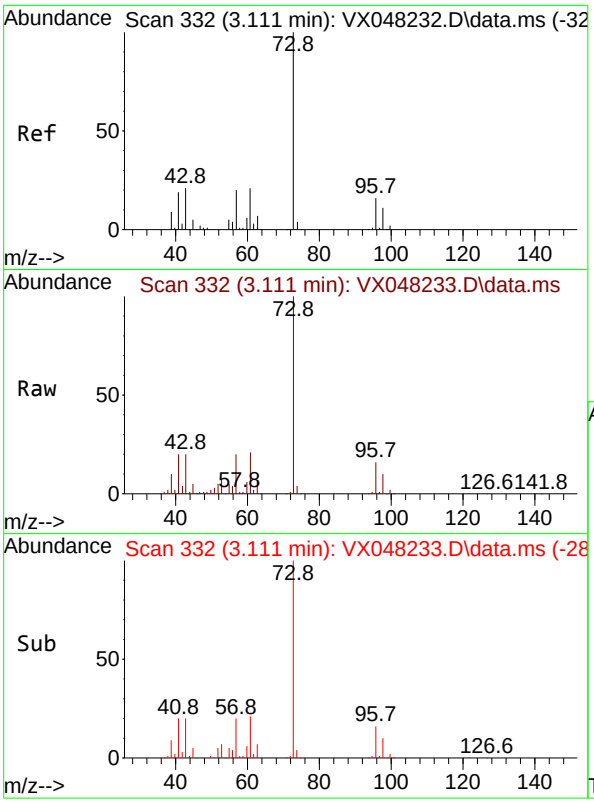


#18
Methyl Acetate
Concen: 95.565 ug/l
RT: 2.702 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 43 Resp: 120920

Ion	Ratio	Lower	Upper
43	100		
74	25.0	17.5	26.3

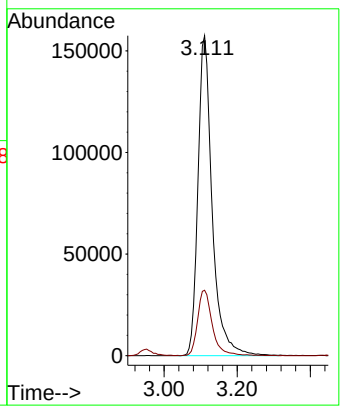




#19
Methyl tert-butyl Ether
Concen: 104.130 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 73 Resp: 42725

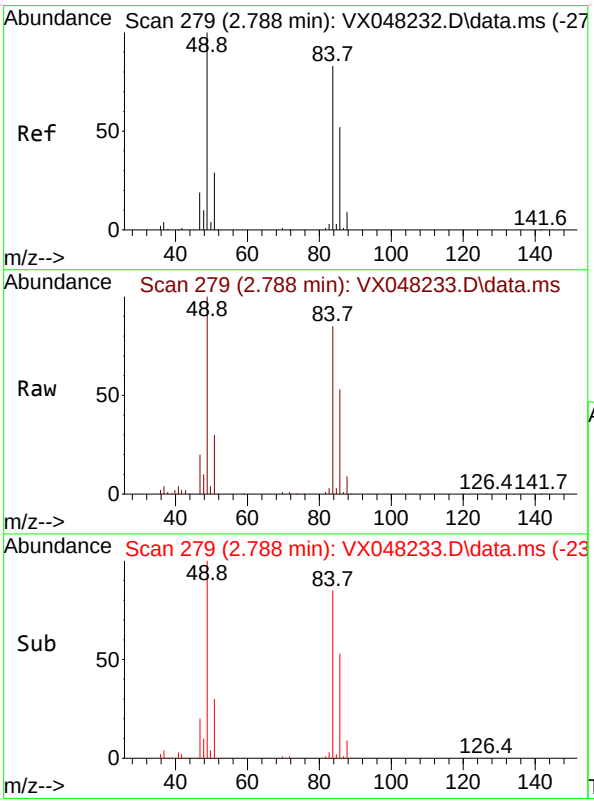
Ion	Ratio	Lower	Upper
73	100		
57	20.5	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

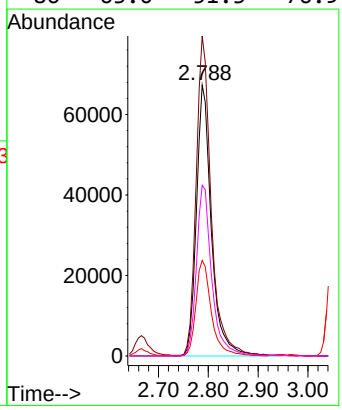
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

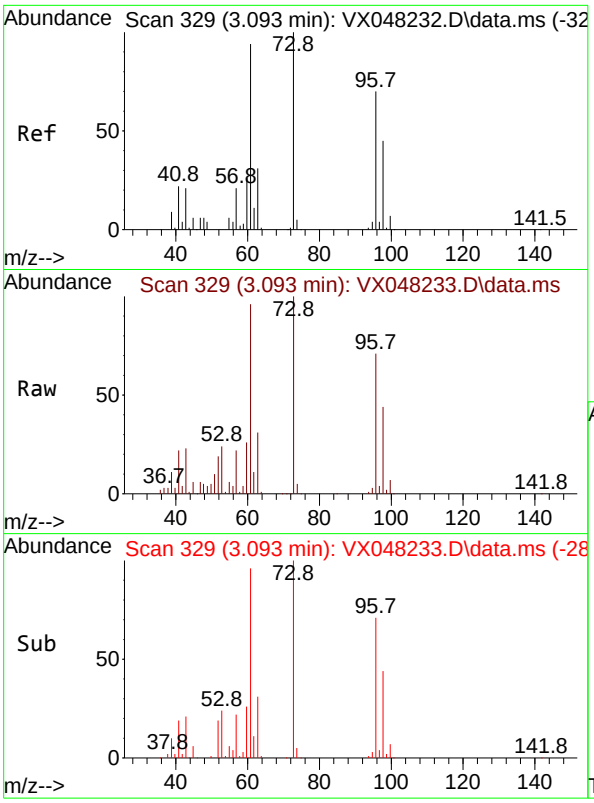


#20
Methylene Chloride
Concen: 92.718 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 84 Resp: 140317

Ion	Ratio	Lower	Upper
84	100		
49	117.9	104.1	156.1
51	35.3	31.3	46.9
86	63.0	51.3	76.9

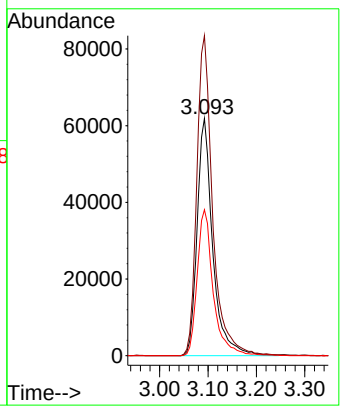




#21
trans-1,2-Dichloroethene
Concen: 98.694 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 96 Resp: 13908

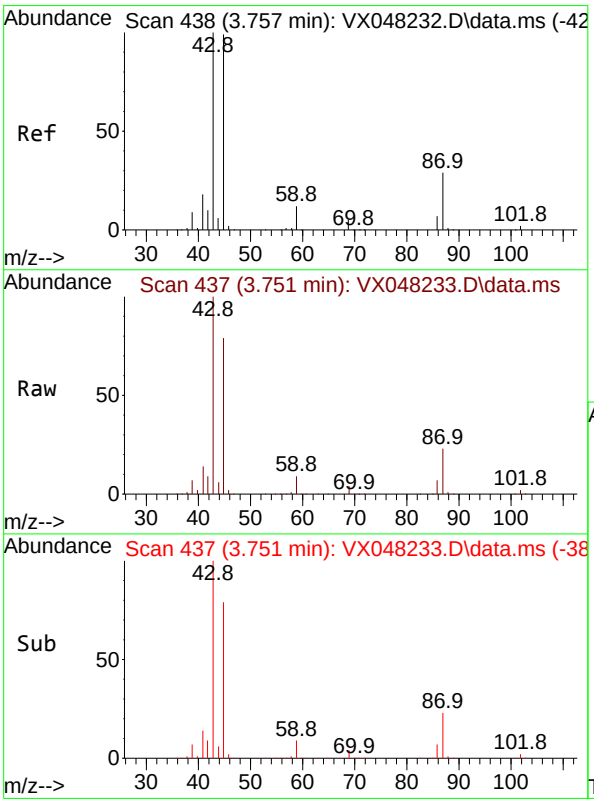
Ion	Ratio	Lower	Upper
96	100		
61	134.9	111.9	167.9
98	61.5	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

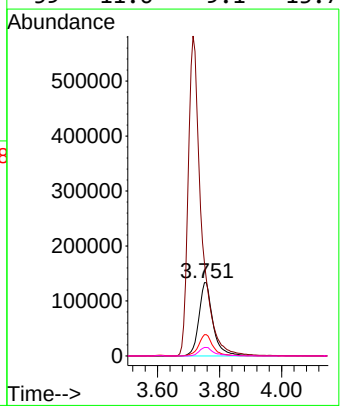
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

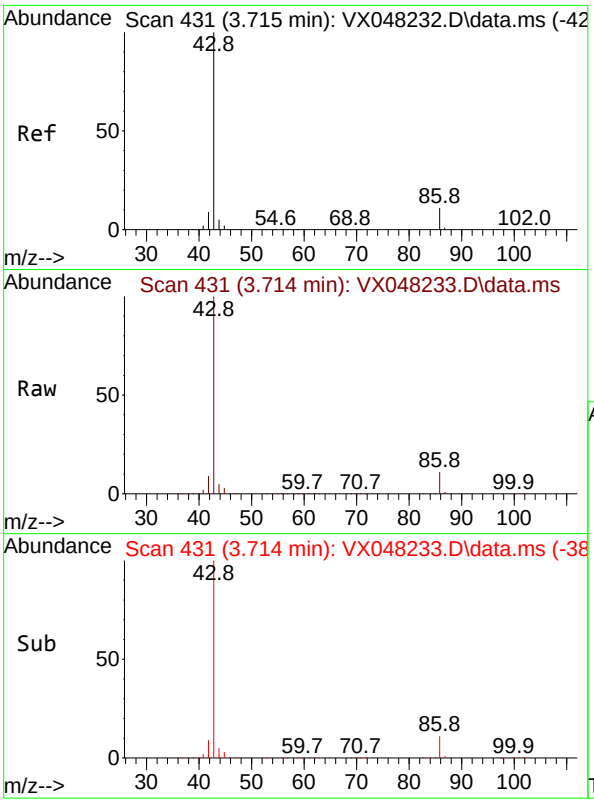


#22
Diisopropyl ether
Concen: 87.566 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 45 Resp: 420126

Ion	Ratio	Lower	Upper
45	100		
43	126.6	89.8	134.8
87	29.0	20.6	31.0
59	11.6	9.1	13.7





#23
Vinyl Acetate
Concen: 480.325 ug/l
RT: 3.714 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

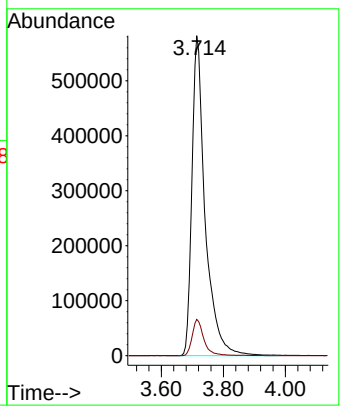
Tgt Ion: 43 Resp: 172317

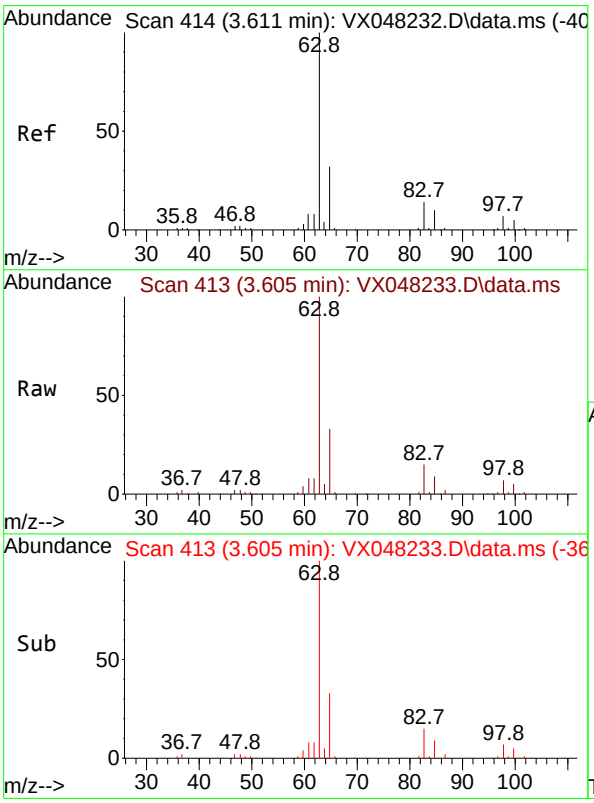
Ion	Ratio	Lower	Upper
43	100		
86	11.3	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

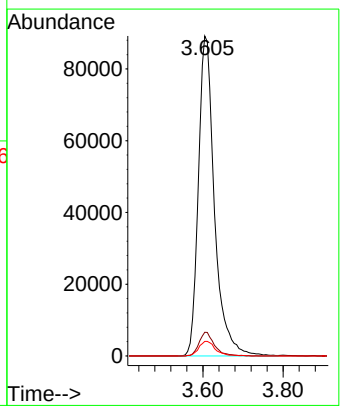


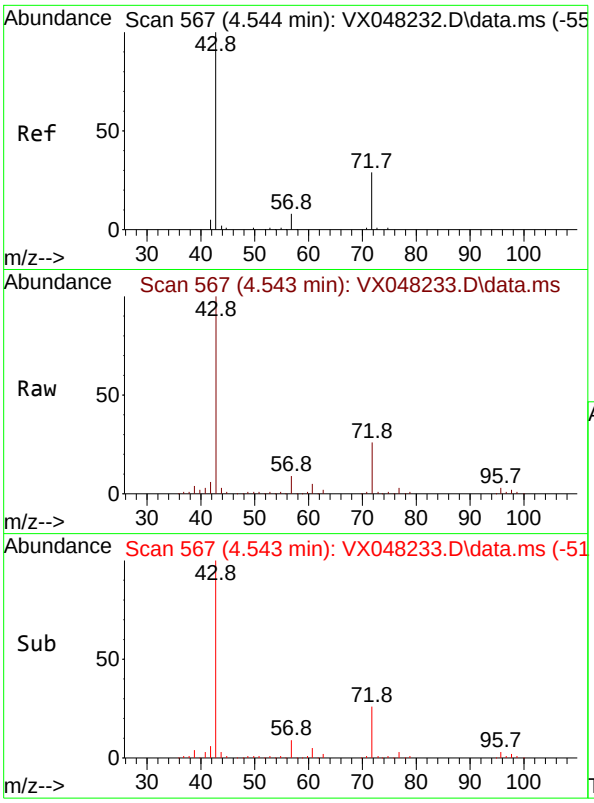


#24
1,1-Dichloroethane
Concen: 91.164 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 63 Resp: 248141

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.5	10.6
100	4.6	2.1	6.3





#25
2-Butanone
Concen: 488.753 ug/l
RT: 4.543 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

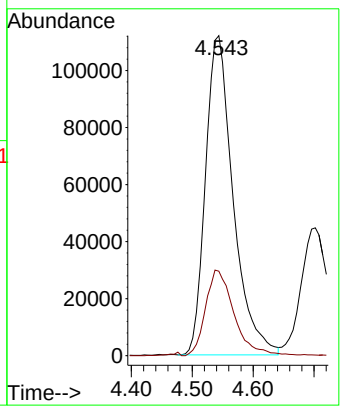
Tgt Ion: 43 Resp: 35374

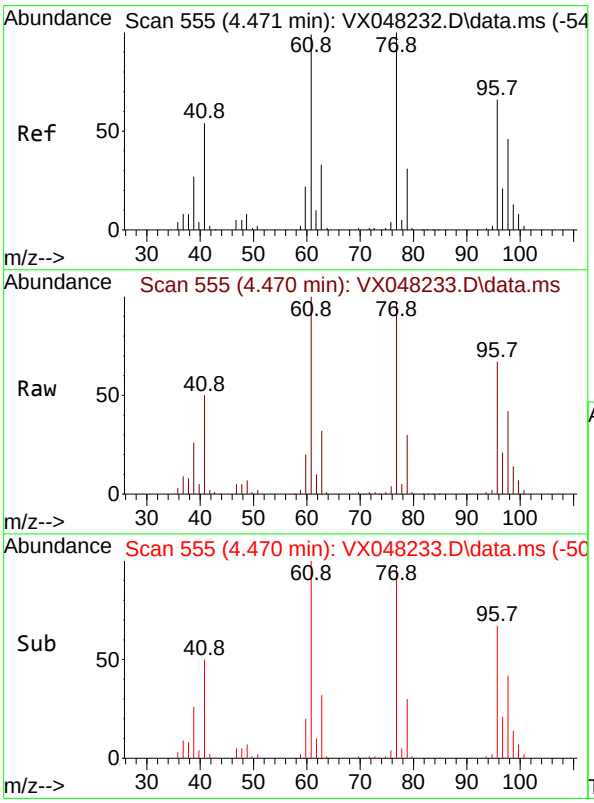
Ion	Ratio	Lower	Upper
43	100		
72	25.8	19.9	29.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

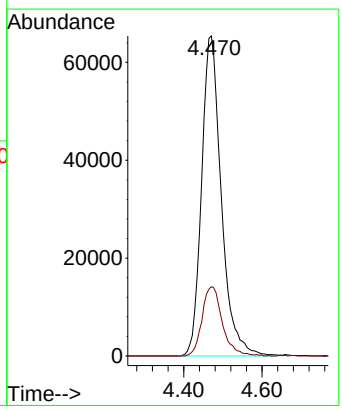


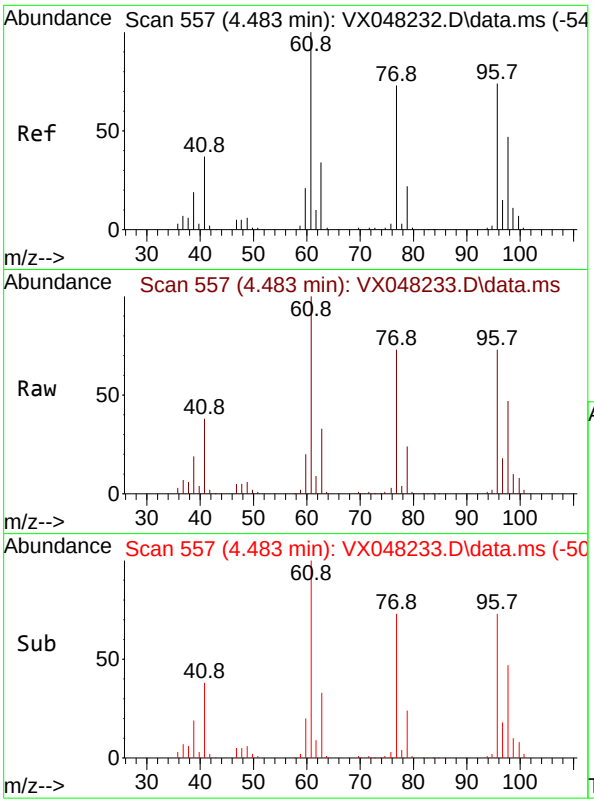


#26
2,2-Dichloropropane
Concen: 98.275 ug/l
RT: 4.470 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 77 Resp: 228643

Ion	Ratio	Lower	Upper
77	100		
97	22.2	11.1	33.3





#27
cis-1,2-Dichloroethene
Concen: 97.727 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

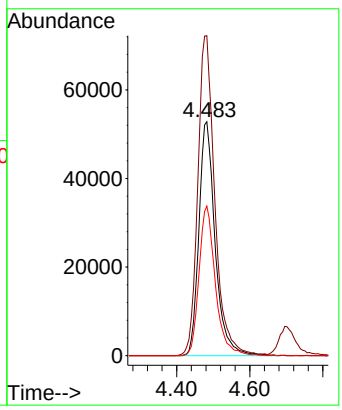
Tgt Ion: 96 Resp: 16344

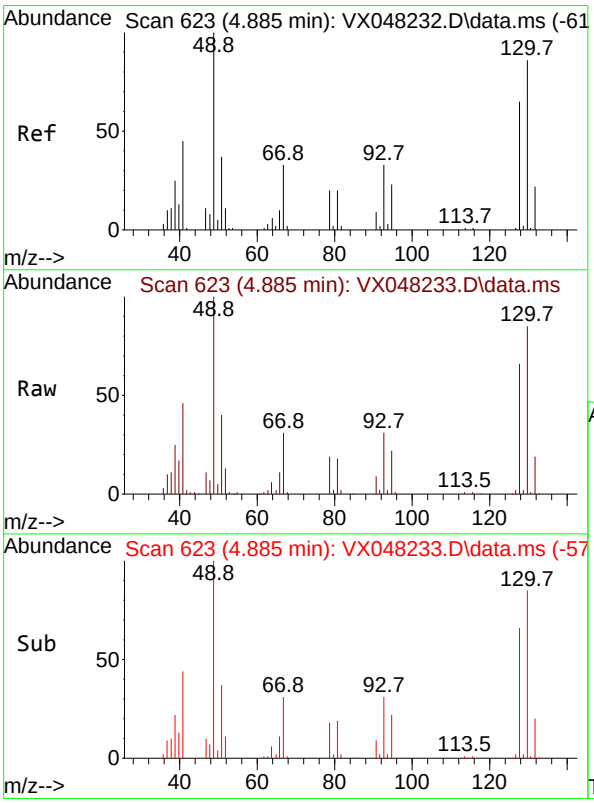
Ion	Ratio	Lower	Upper
96	100		
61	143.1	0.0	294.2
98	64.3	0.0	128.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

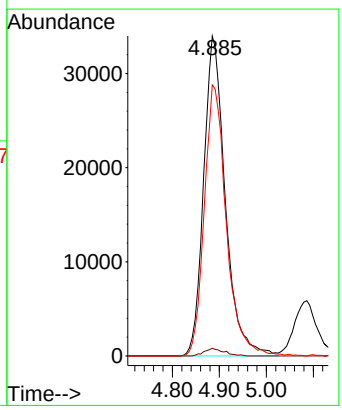


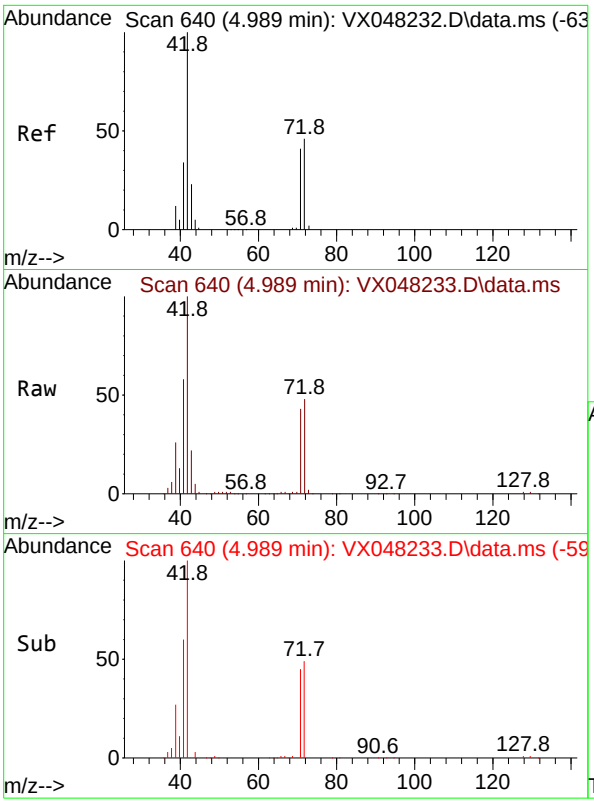


#28
Bromochloromethane
Concen: 86.505 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 49 Resp: 108536

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.4
130	86.4	59.3	88.9





#29
Tetrahydrofuran
Concen: 509.471 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

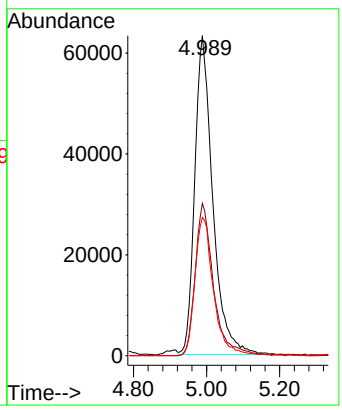
Tgt Ion: 42 Resp: 21654

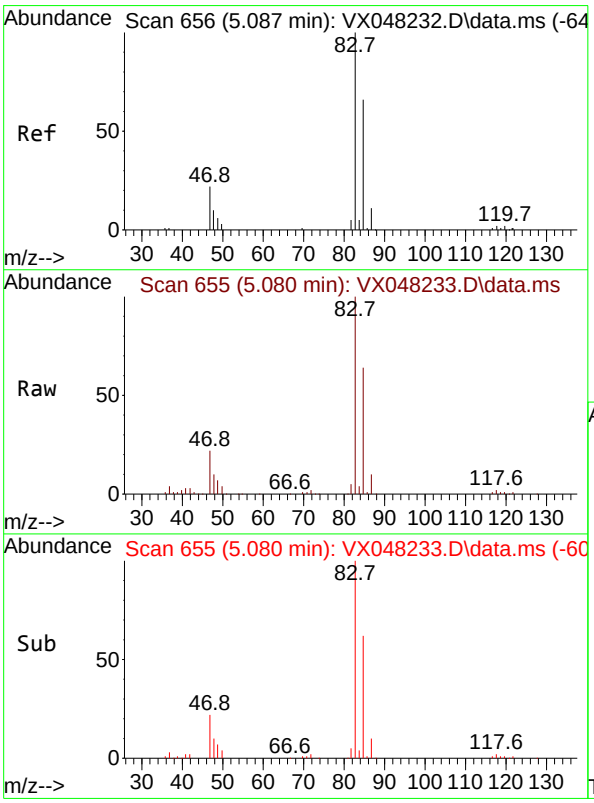
Ion	Ratio	Lower	Upper
42	100		
72	48.6	35.3	52.9
71	44.5	32.2	48.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

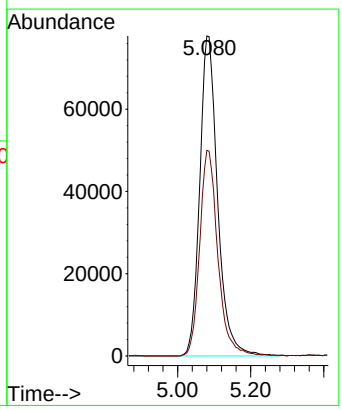


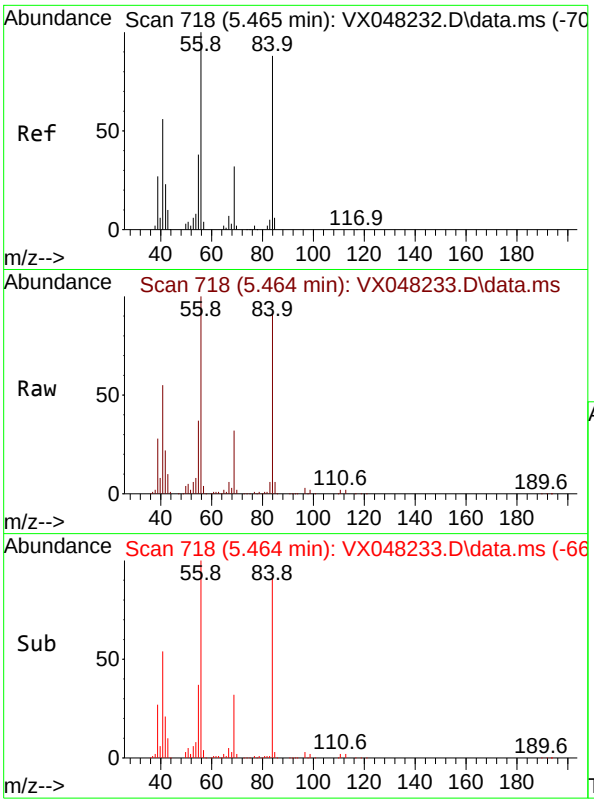


#30
Chloroform
Concen: 92.461 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 83 Resp: 264966

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.1	75.1





#31
Cyclohexane
Concen: 97.754 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

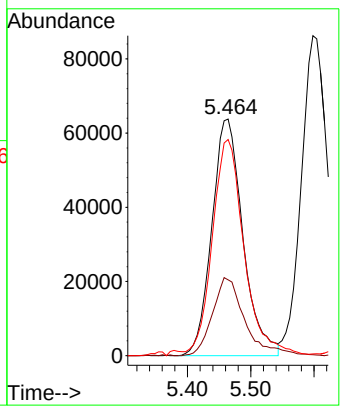
Tgt Ion: 56 Resp: 21771

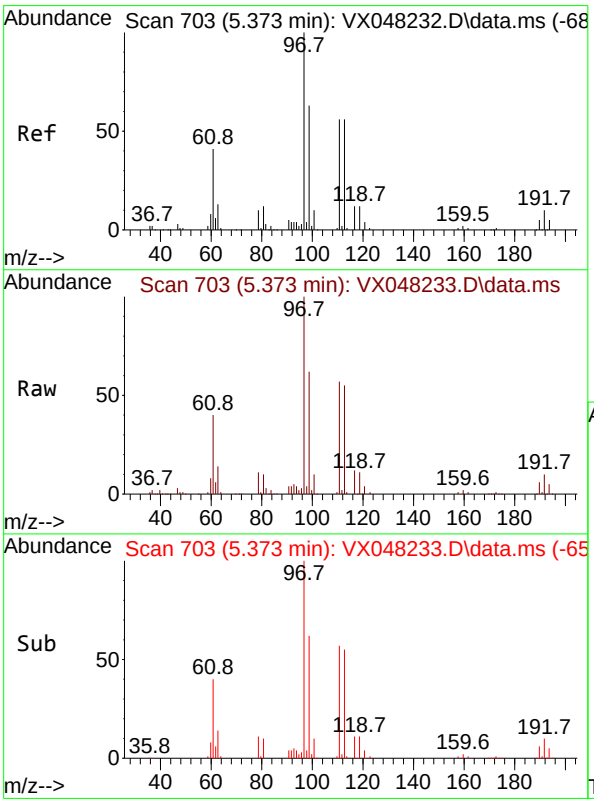
Ion	Ratio	Lower	Upper
56	100		
69	32.1	23.0	34.6
84	89.2	64.6	97.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

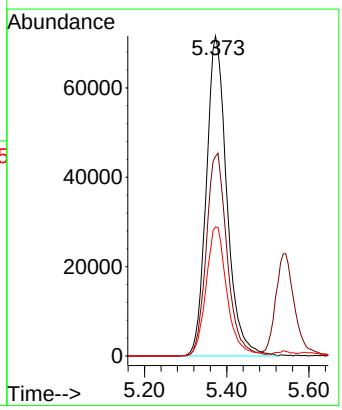


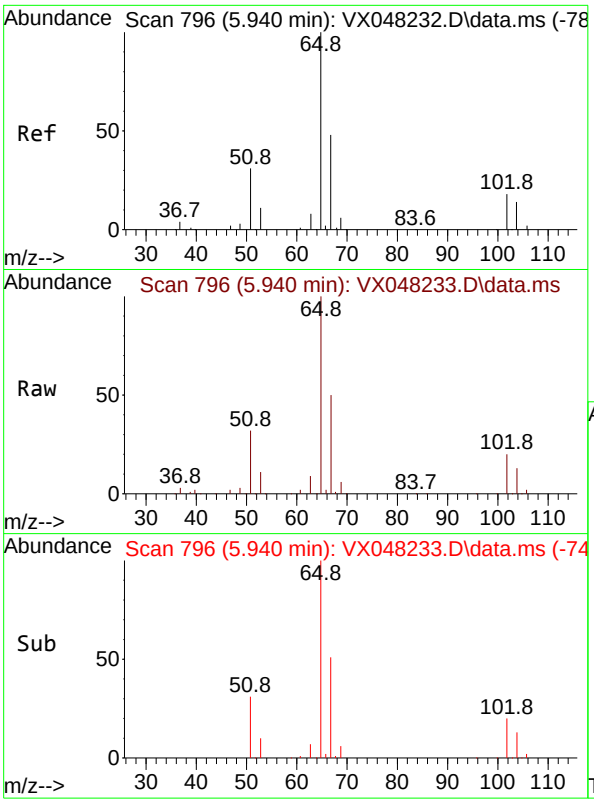


#32
1,1,1-Trichloroethane
Concen: 105.334 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 97 Resp: 248018

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.7	77.5
61	41.2	34.8	52.2

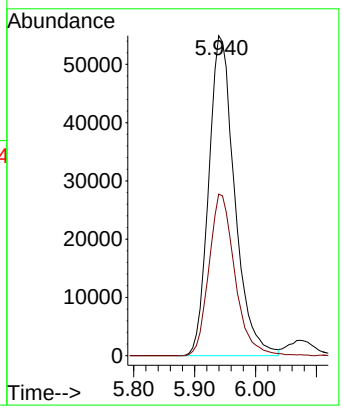




#33
1,2-Dichloroethane-d4
Concen: 89.060 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 65 Resp: 16218

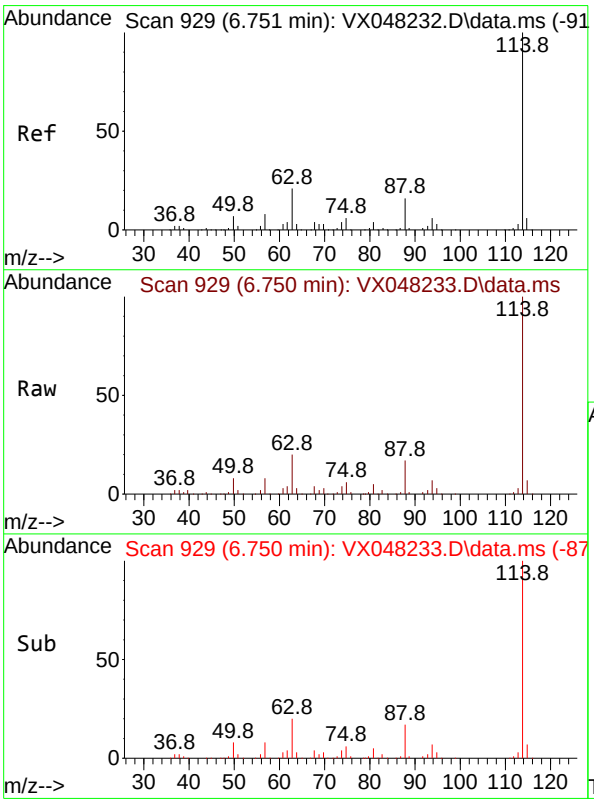
Ion	Ratio	Lower	Upper
65	100		
67	50.6	0.0	105.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

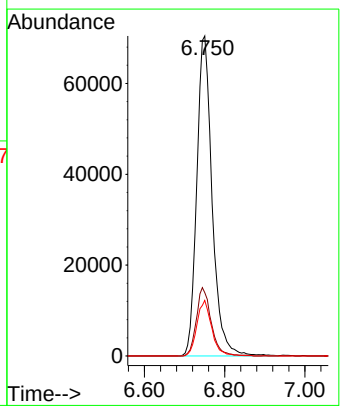
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

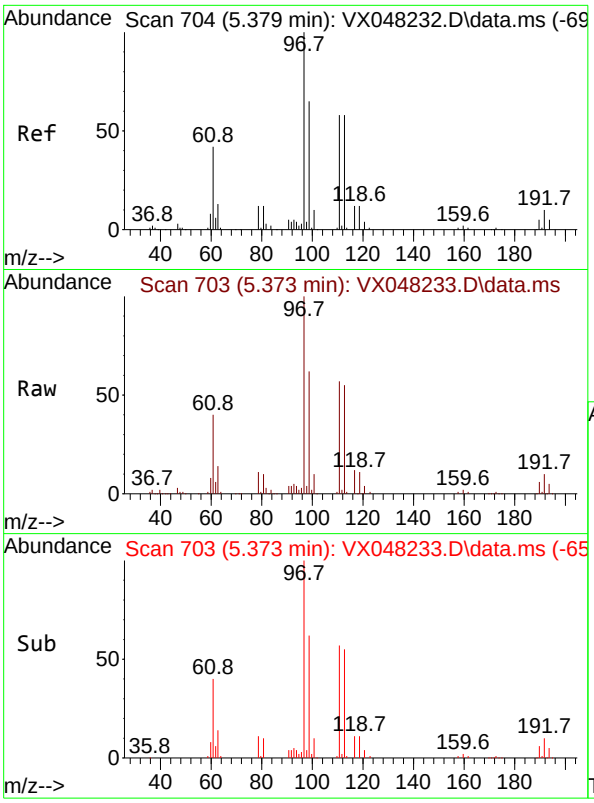


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.750 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:114 Resp: 187766

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	43.2
88	17.3	0.0	33.6

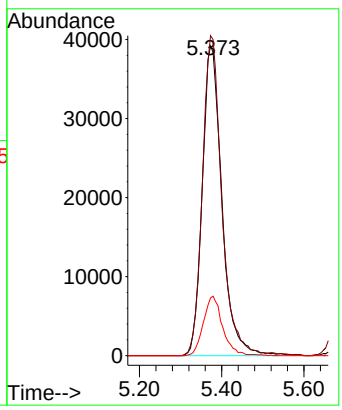




#35
Dibromofluoromethane
Concen: 99.697 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:113 Resp: 12991

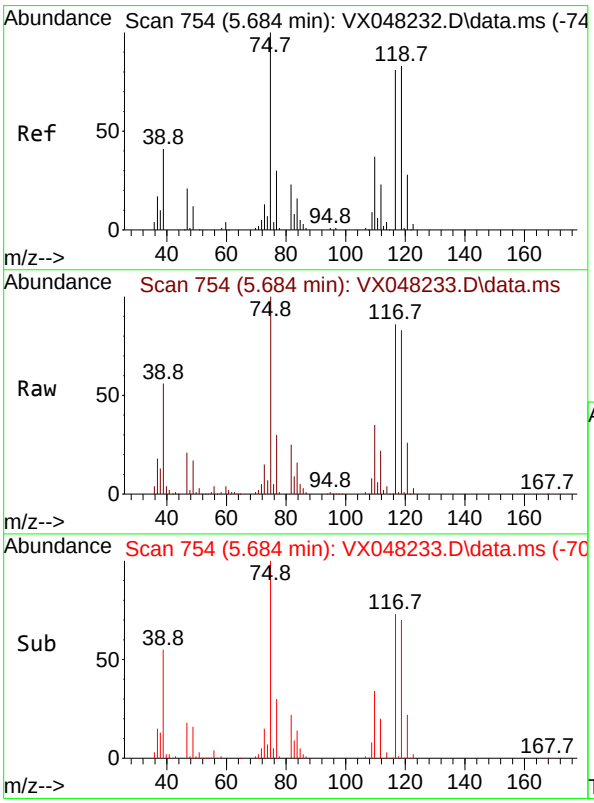
Ion	Ratio	Lower	Upper
113	100		
111	101.5	82.2	123.4
192	19.0	15.1	22.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

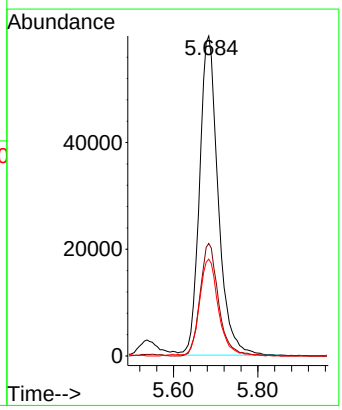
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

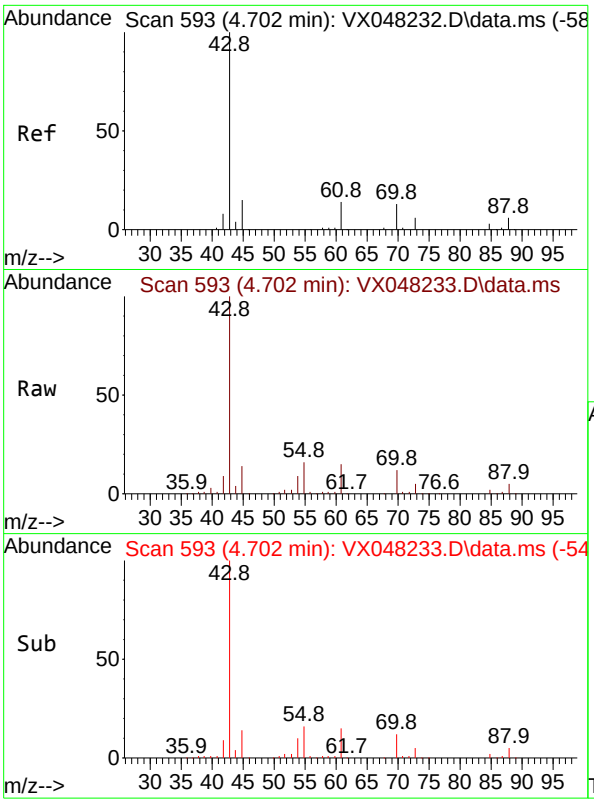


#36
1,1-Dichloropropene
Concen: 100.194 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 75 Resp: 183932

Ion	Ratio	Lower	Upper
75	100		
110	35.1	17.7	53.1
77	30.9	24.3	36.5

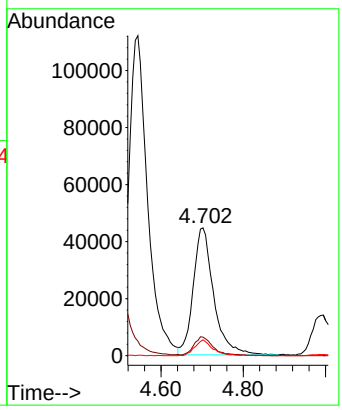




#37
Ethyl Acetate
Concen: 104.863 ug/l
RT: 4.702 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 43 Resp: 15384

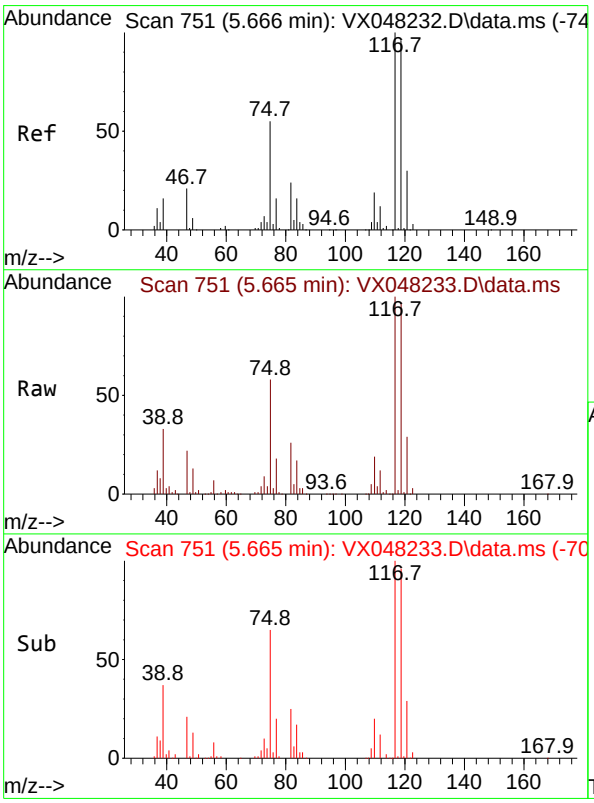
Ion	Ratio	Lower	Upper
43	100		
61	13.3	10.6	15.8
70	10.7	7.8	11.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

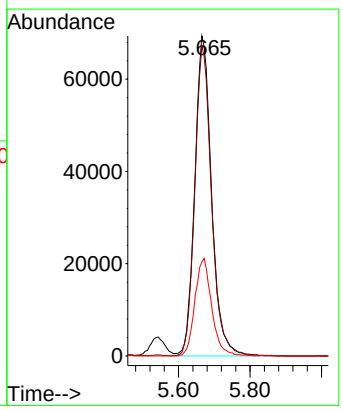
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

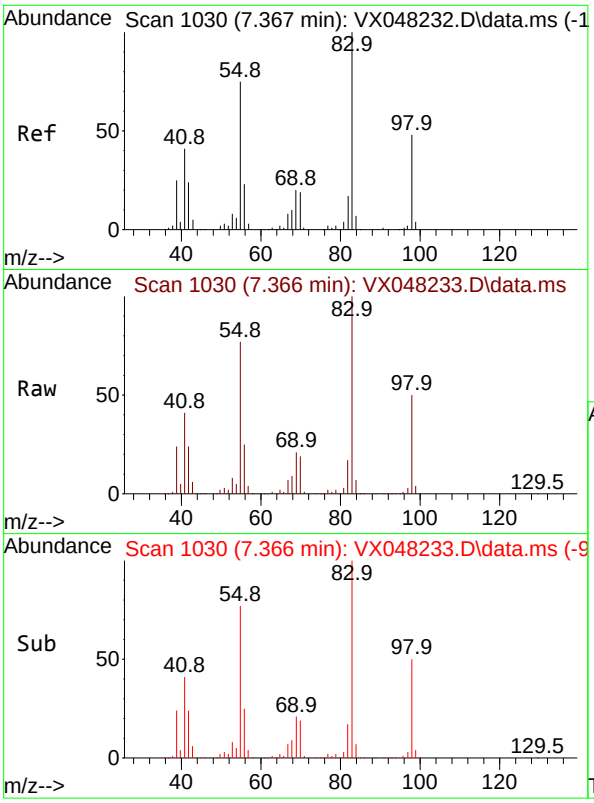


#38
Carbon Tetrachloride
Concen: 107.719 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:117 Resp: 226976

Ion	Ratio	Lower	Upper
117	100		
119	96.9	77.2	115.8
121	29.4	24.8	37.2

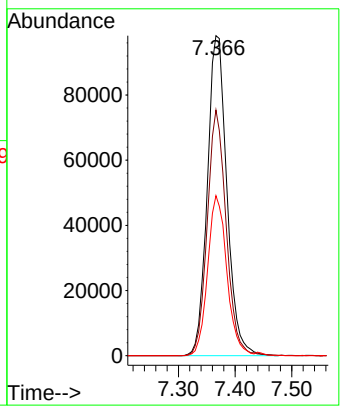




#39
Methylcyclohexane
Concen: 113.637 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 83 Resp: 23520

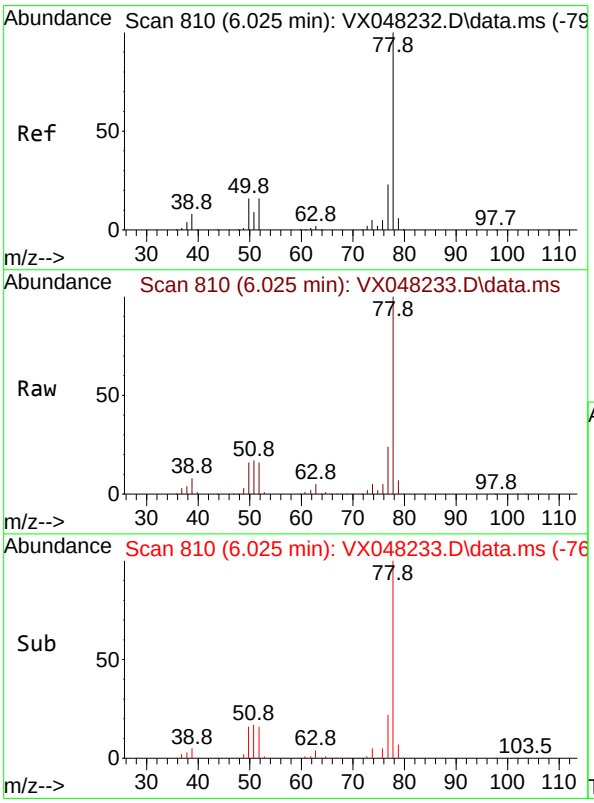
Ion	Ratio	Lower	Upper
83	100		
55	76.8	66.2	99.2
98	50.0	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

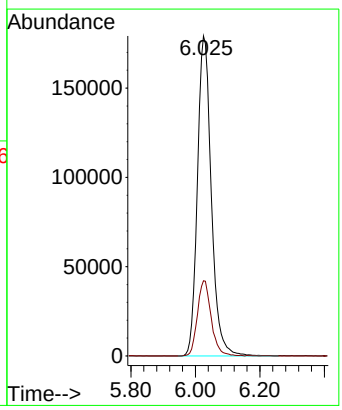
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

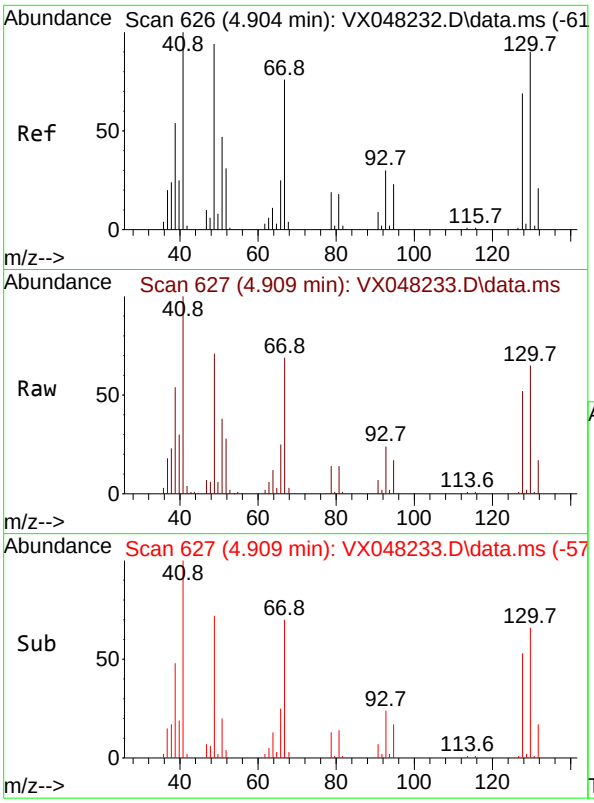


#40
Benzene
Concen: 98.221 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 78 Resp: 535407

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.3	28.9

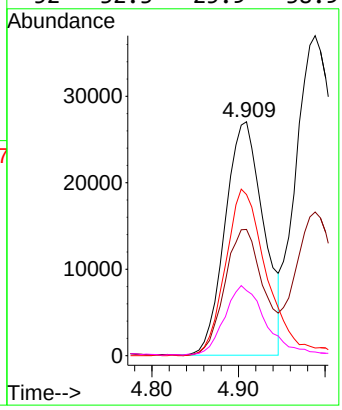




#41
Methacrylonitrile
Concen: 106.641 ug/l
RT: 4.909 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 41 Resp: 8379

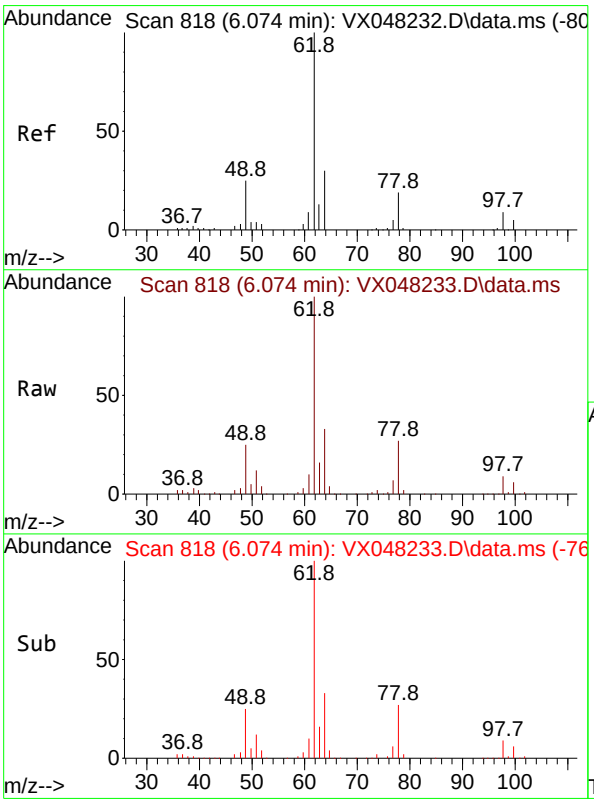
Ion	Ratio	Lower	Upper
41	100		
39	54.4	44.0	66.0
67	77.7	58.7	88.1
52	32.3	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

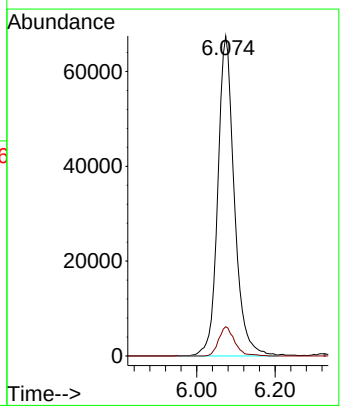
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

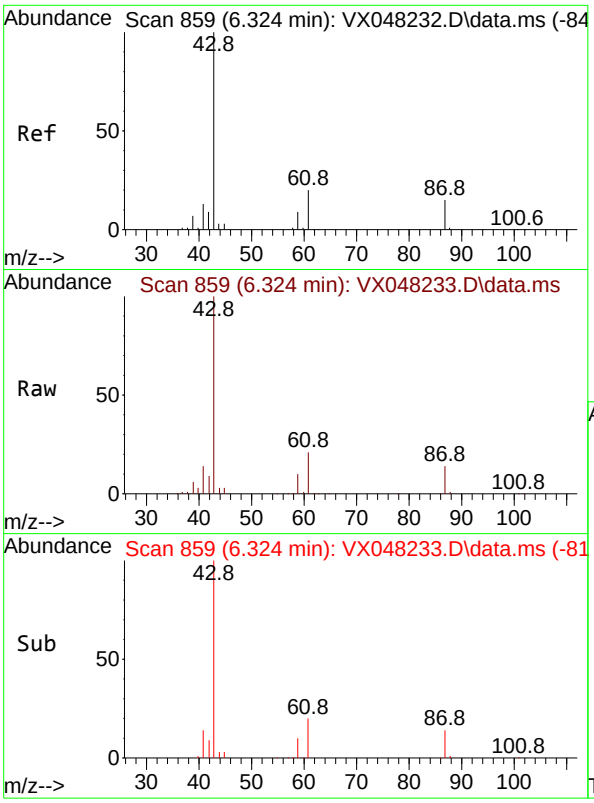


#42
1,2-Dichloroethane
Concen: 101.562 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 62 Resp: 198348

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	17.2

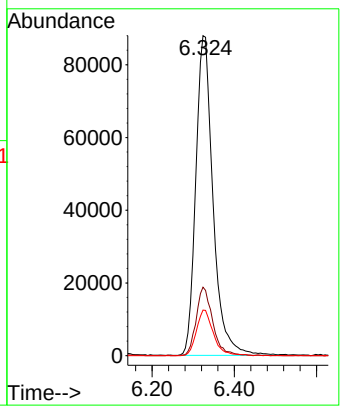




#43
Isopropyl Acetate
Concen: 103.976 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 43 Resp: 25606

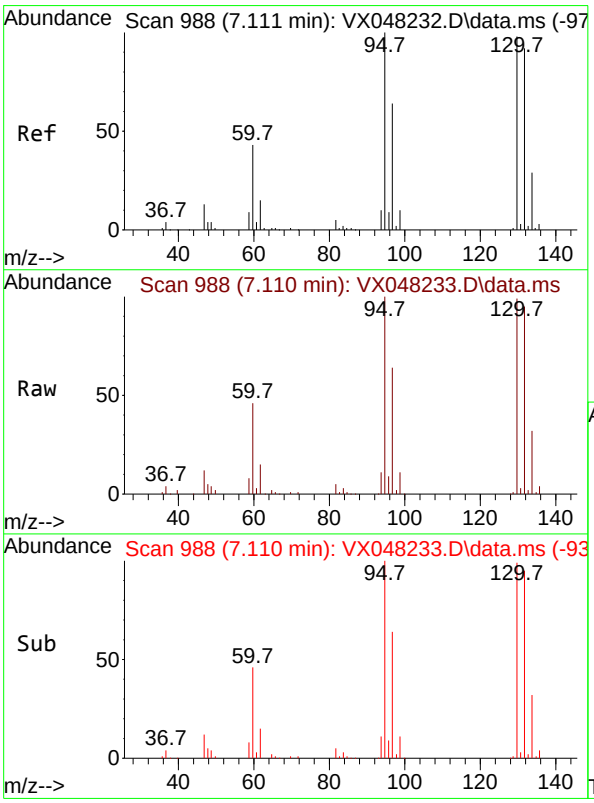
Ion	Ratio	Lower	Upper
43	100		
61	20.5	14.9	22.3
87	14.0	9.4	14.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

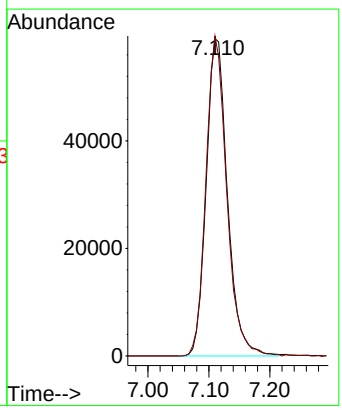
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

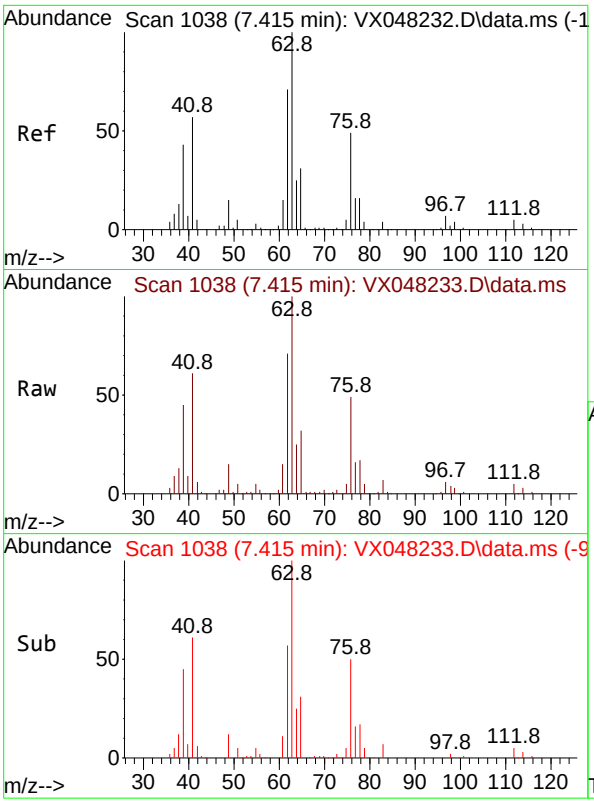


#44
Trichloroethene
Concen: 103.931 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:130 Resp: 142779

Ion	Ratio	Lower	Upper
130	100		
95	100.8	0.0	200.6

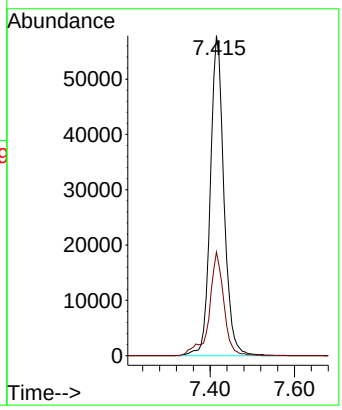




#45
1,2-Dichloropropane
Concen: 94.368 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 63 Resp: 13018

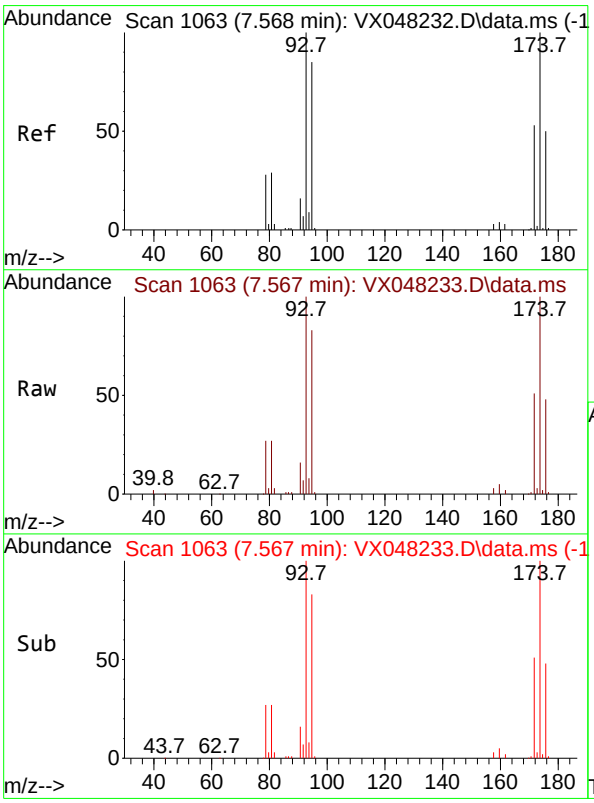
Ion	Ratio	Lower	Upper
63	100		
65	32.4	24.1	36.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

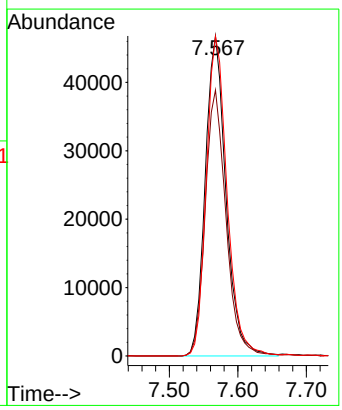
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

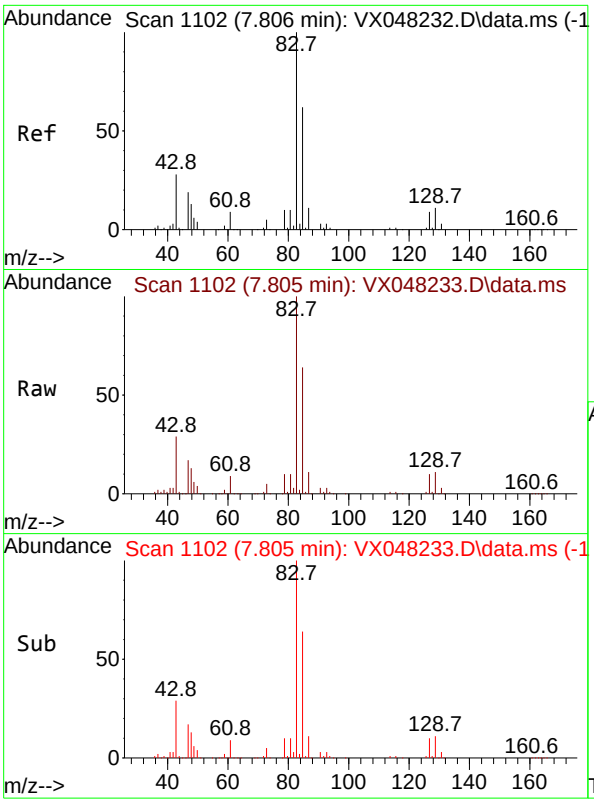


#46
Dibromomethane
Concen: 98.835 ug/l
RT: 7.567 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 93 Resp: 98105

Ion	Ratio	Lower	Upper
93	100		
95	83.4	65.9	98.9
174	100.3	71.7	107.5

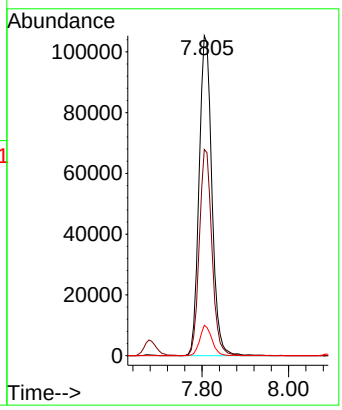




#47
Bromodichloromethane
Concen: 100.358 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 83 Resp: 21530

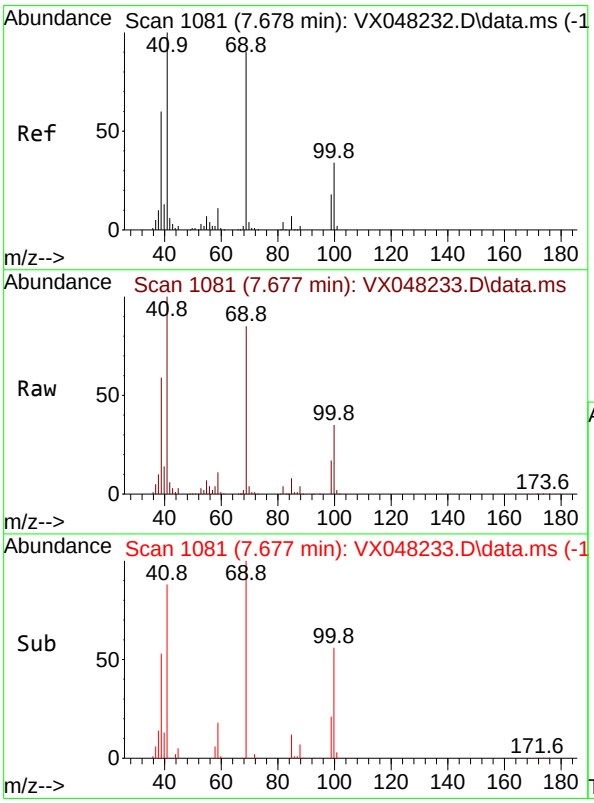
Ion	Ratio	Lower	Upper
83	100		
85	64.4	52.2	78.4
127	9.5	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

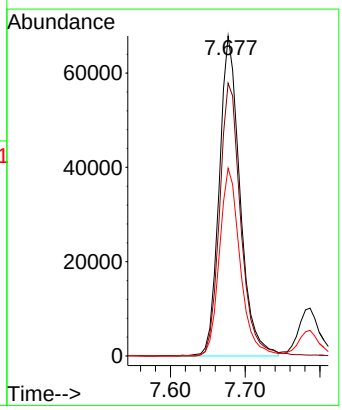
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

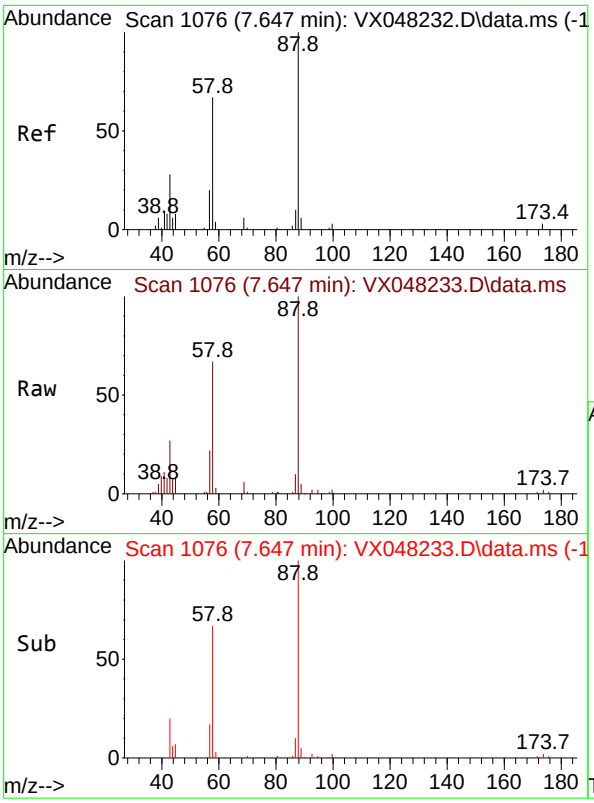


#48
Methyl methacrylate
Concen: 104.272 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 41 Resp: 131454

Ion	Ratio	Lower	Upper
41	100		
69	86.8	63.4	95.0
39	58.7	47.1	70.7

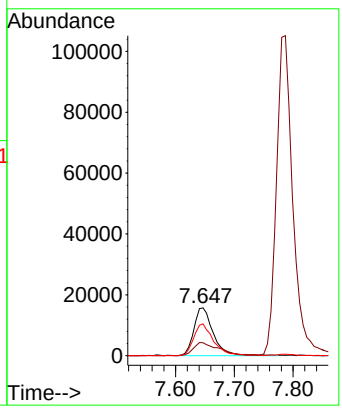




#49
1,4-Dioxane
Concen: 3169.845 ug/l
RT: 7.647 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 88 Resp: 3597

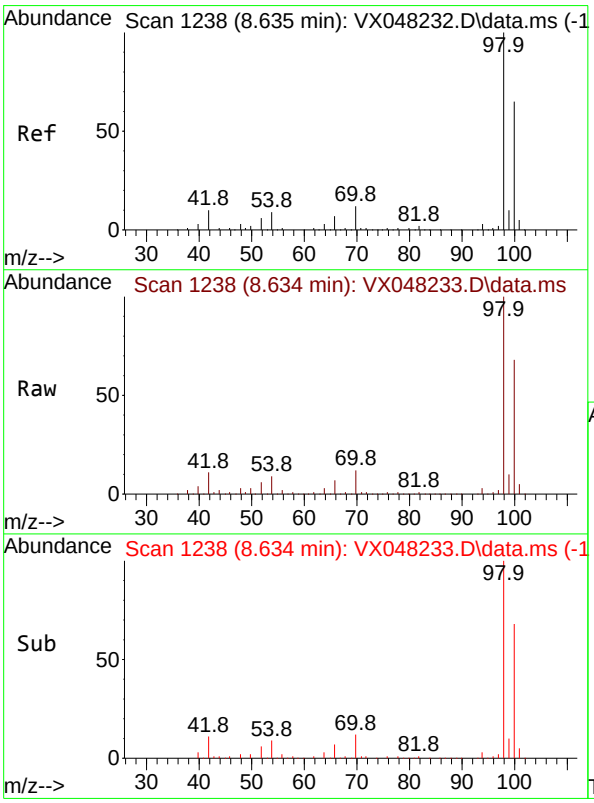
Ion	Ratio	Lower	Upper
88	100		
43	36.6	35.0	52.4
58	68.4	61.9	92.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

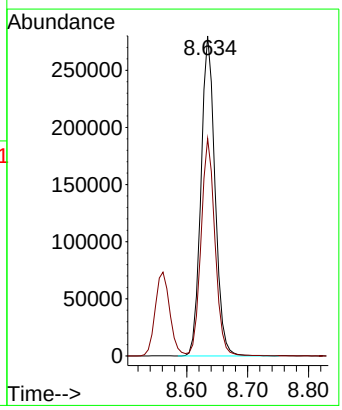
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

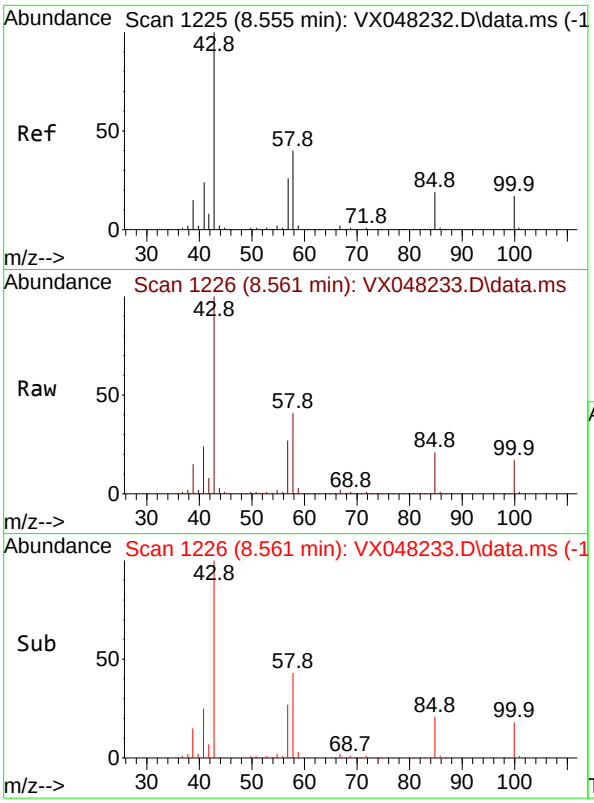


#50
Toluene-d8
Concen: 95.629 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 98 Resp: 448948

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4





#51
4-Methyl-2-Pentanone
Concen: 526.103 ug/l
RT: 8.561 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

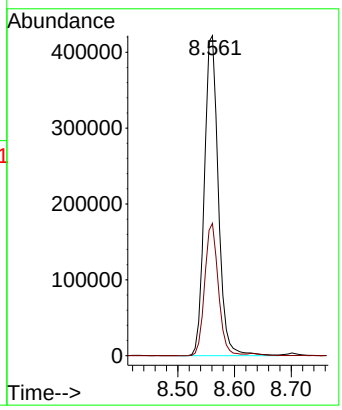
Tgt Ion: 43 Resp: 72098

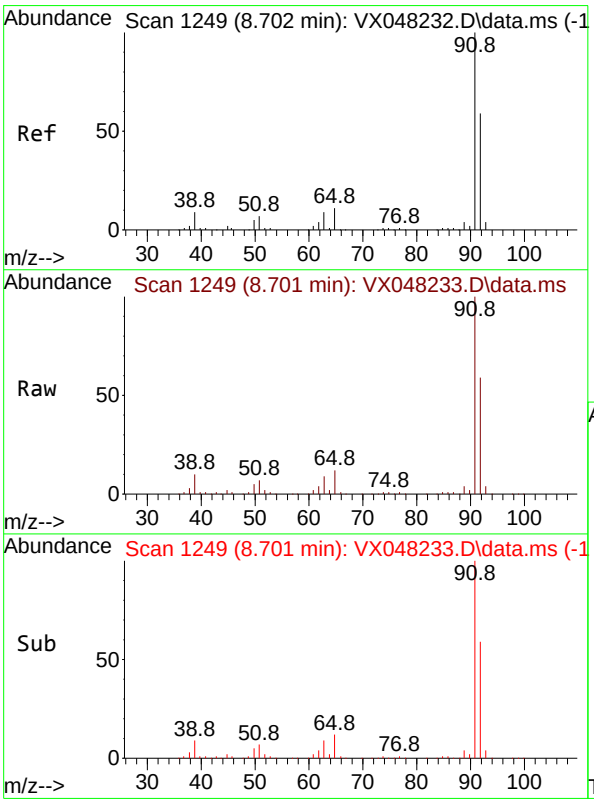
Ion	Ratio	Lower	Upper
43	100		
58	40.4	29.5	44.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

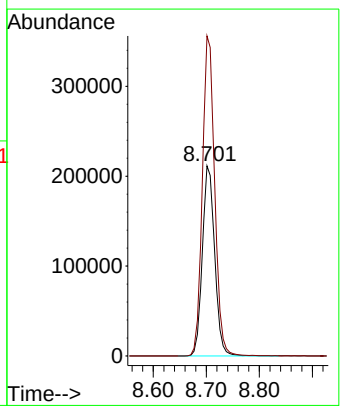


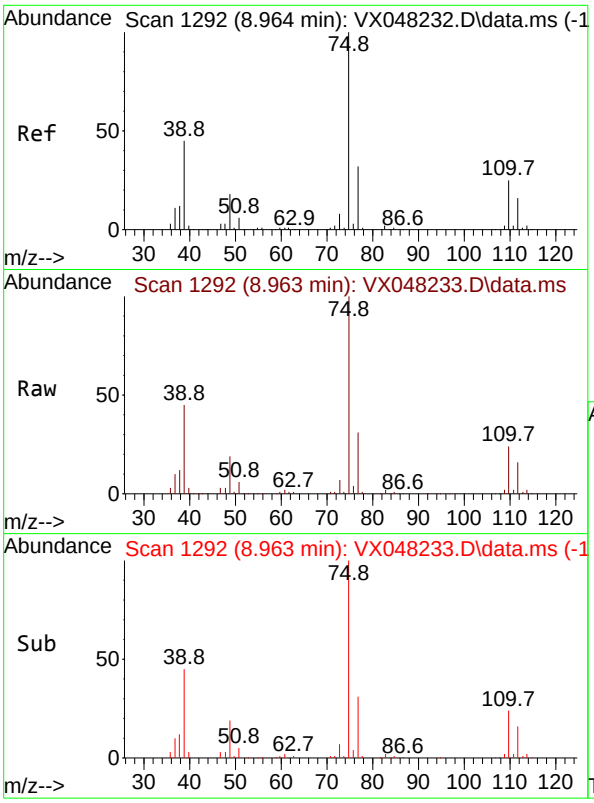


#52
Toluene
Concen: 104.263 ug/l
RT: 8.701 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 92 Resp: 341597

Ion	Ratio	Lower	Upper
92	100		
91	168.2	136.1	204.1

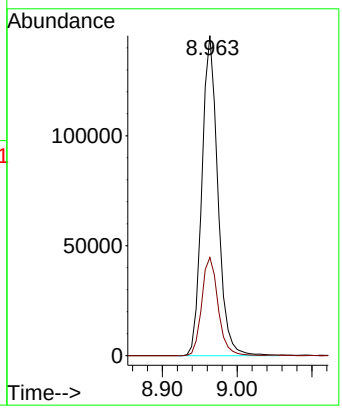




#53
t-1,3-Dichloropropene
Concen: 107.341 ug/l
RT: 8.963 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 75 Resp: 21573

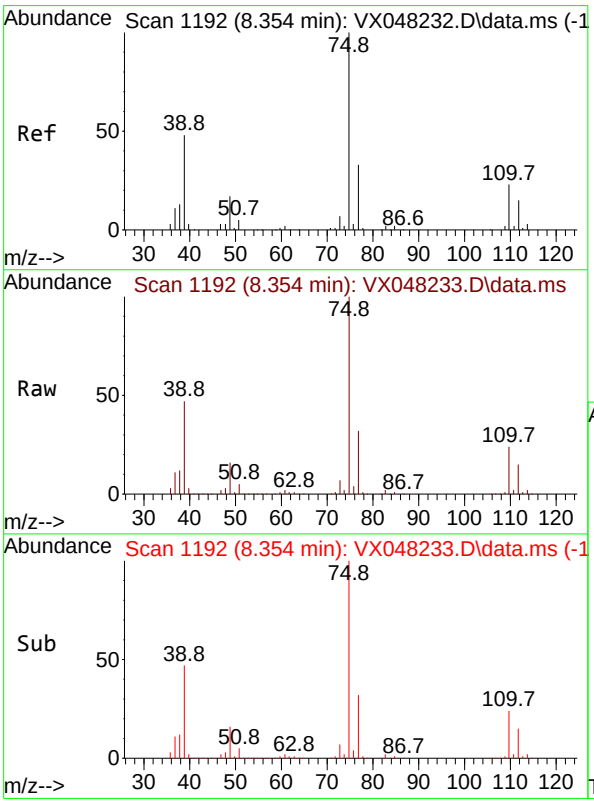
Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

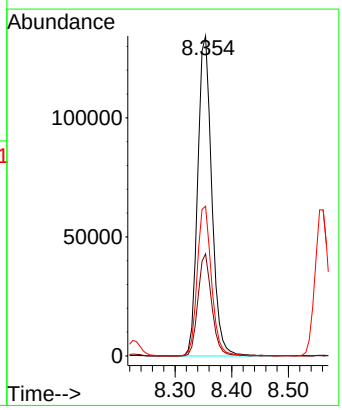
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

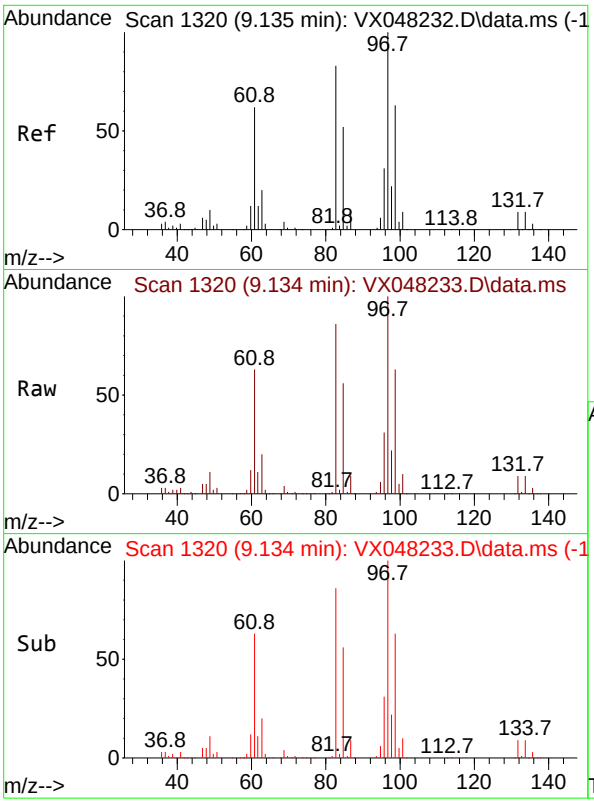


#54
cis-1,3-Dichloropropene
Concen: 105.465 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 75 Resp: 231037

Ion	Ratio	Lower	Upper
75	100		
77	31.9	24.9	37.3
39	46.7	42.6	64.0

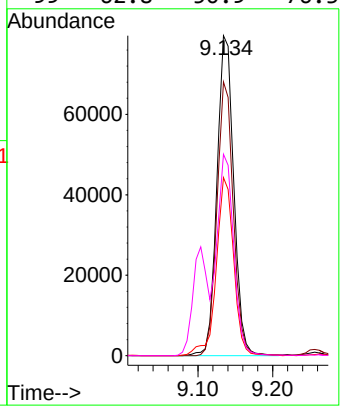




#55
1,1,2-Trichloroethane
Concen: 102.180 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 97 Resp: 12491

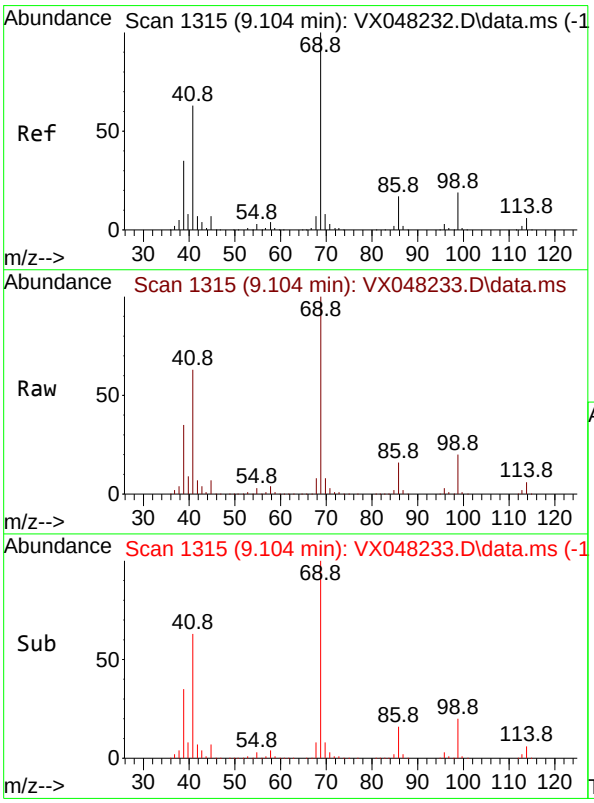
Ion	Ratio	Lower	Upper
97	100		
83	85.5	70.6	105.8
85	55.7	45.0	67.6
99	62.8	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

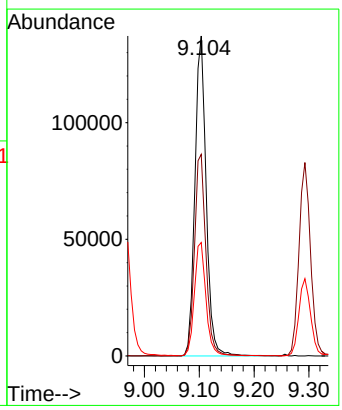
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

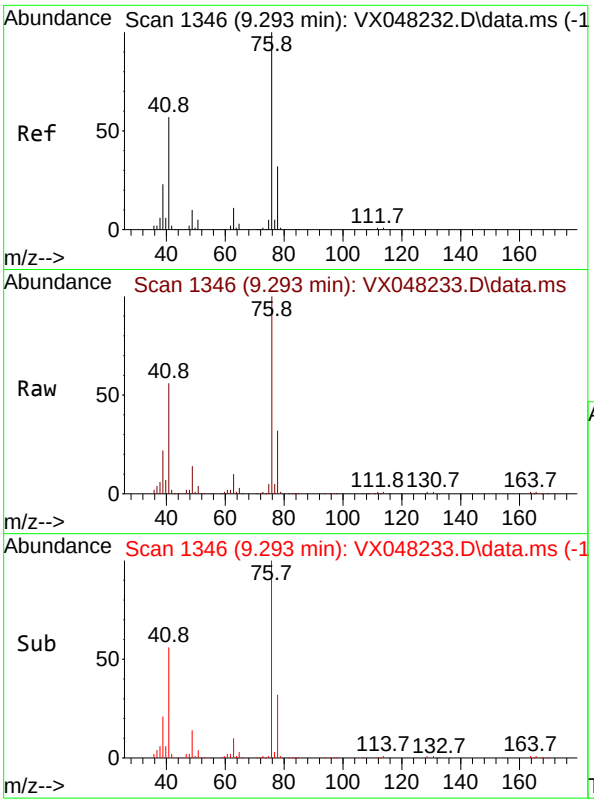


#56
Ethyl methacrylate
Concen: 118.305 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 69 Resp: 196699

Ion	Ratio	Lower	Upper
69	100		
41	64.0	56.0	84.0
39	36.7	31.6	47.4





#57
1,3-Dichloropropane
Concen: 100.598 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

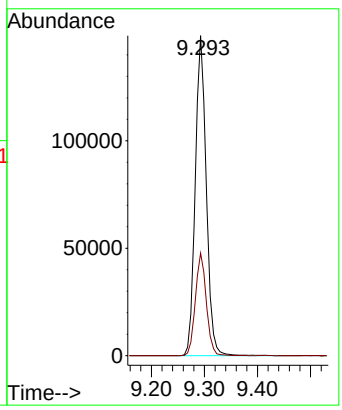
Tgt Ion: 76 Resp: 21485

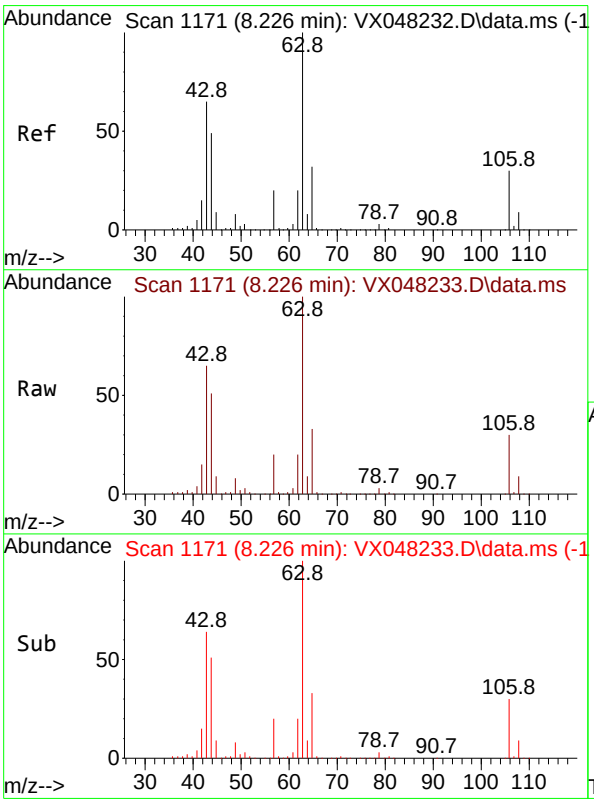
Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.4	38.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

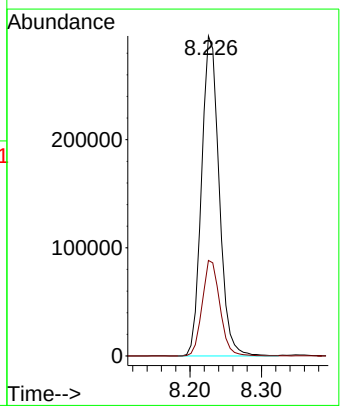


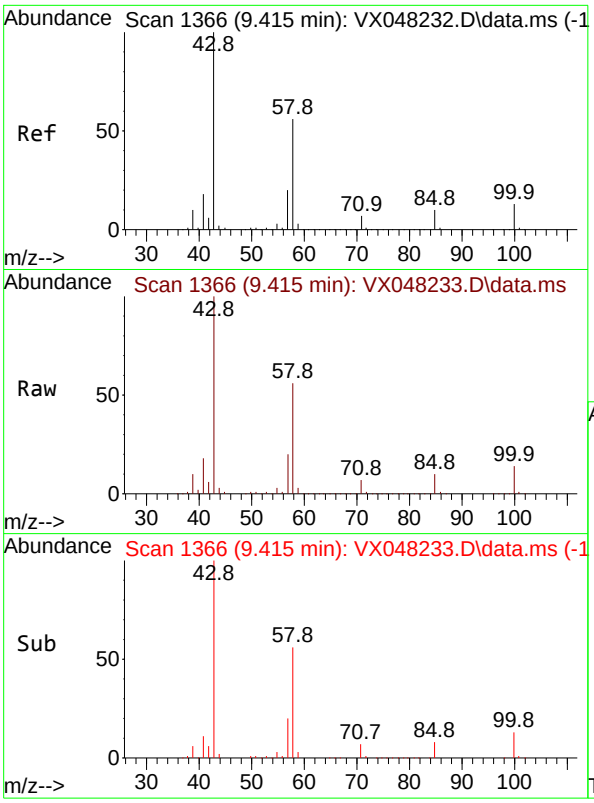


#58
2-Chloroethyl Vinyl ether
Concen: 592.044 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 63 Resp: 505448

Ion	Ratio	Lower	Upper
63	100		
106	30.0	22.2	33.2





#59
2-Hexanone
Concen: 531.416 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

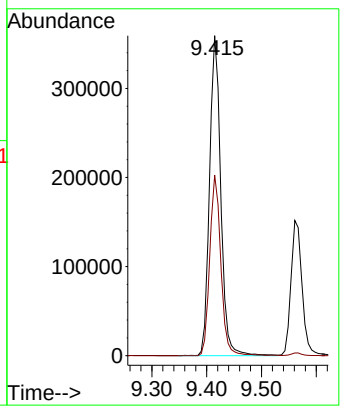
Tgt Ion: 43 Resp: 50939

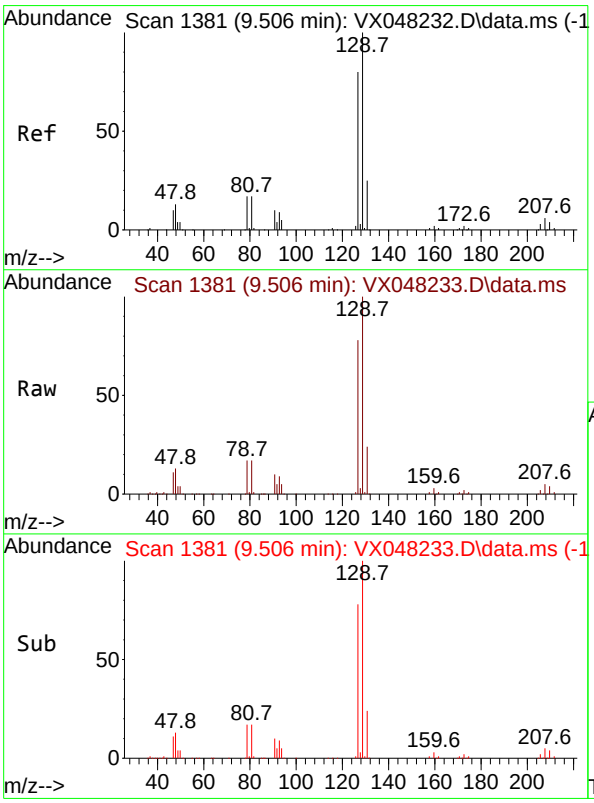
Ion	Ratio	Lower	Upper
43	100		
58	55.8	26.3	78.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

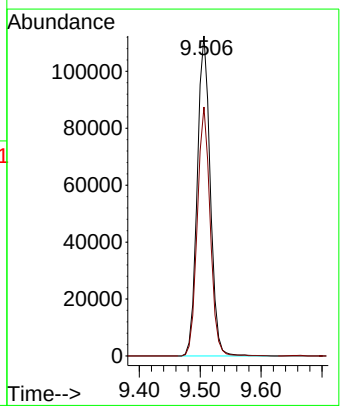


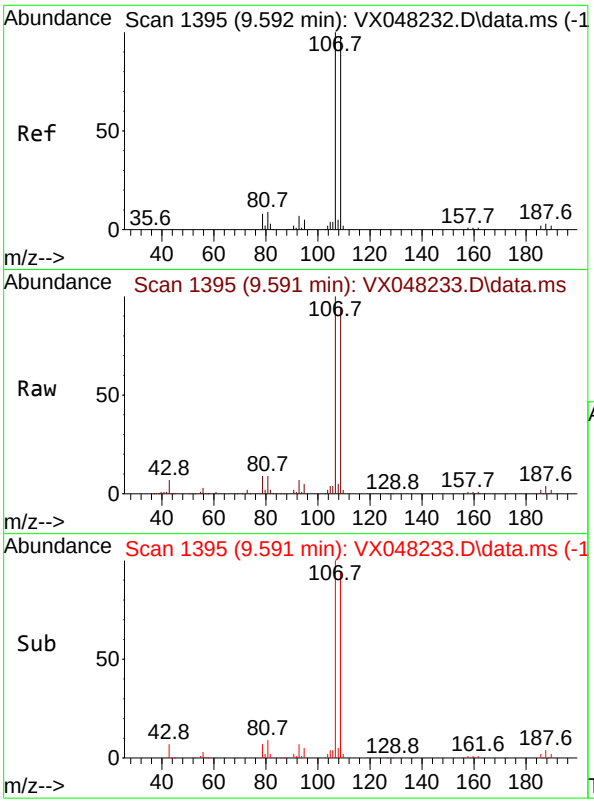


#60
Dibromochloromethane
Concen: 108.598 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:129 Resp: 166167

Ion	Ratio	Lower	Upper
129	100		
127	76.9	38.6	115.7





#61
1,2-Dibromoethane
Concen: 107.431 ug/l
RT: 9.591 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

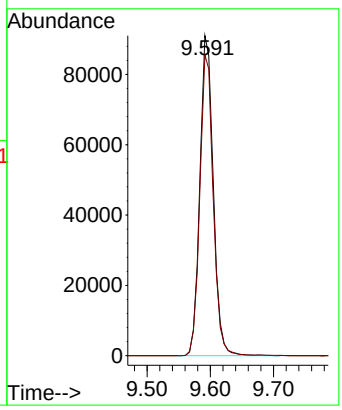
Tgt Ion:107 Resp: 13466

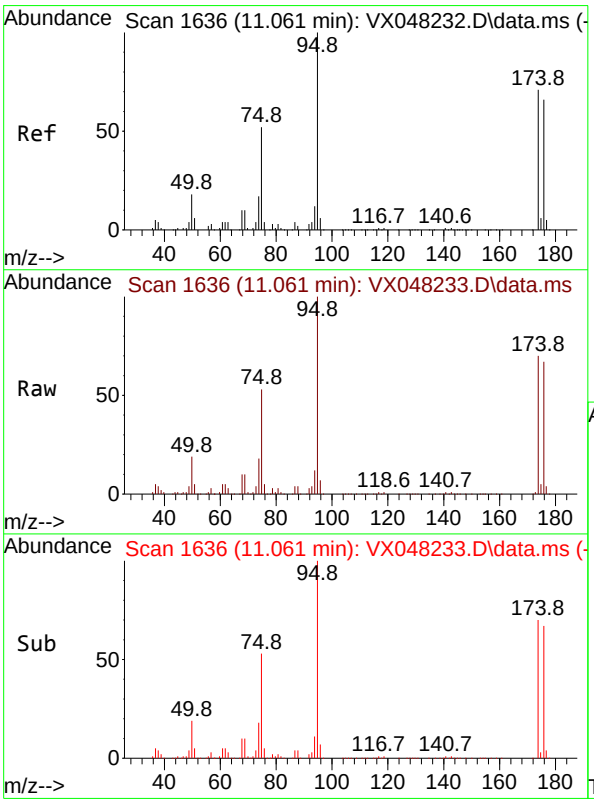
Ion	Ratio	Lower	Upper
107	100		
109	93.7	77.0	115.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

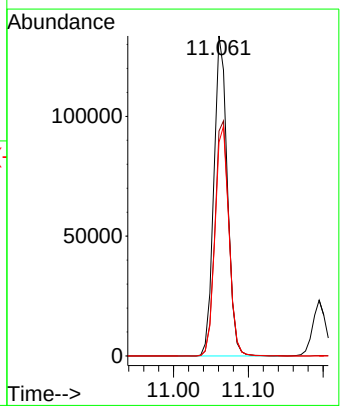


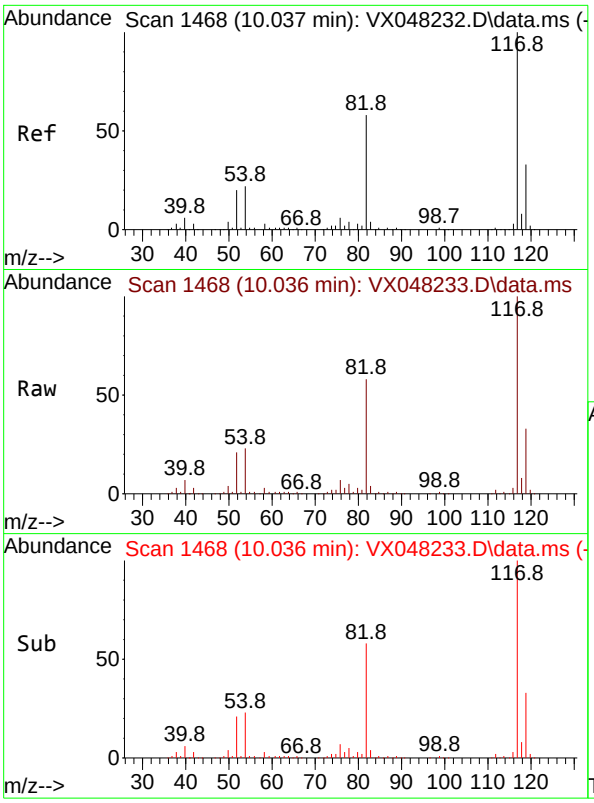


#62
4-Bromofluorobenzene
Concen: 97.996 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 95 Resp: 167565

Ion	Ratio	Lower	Upper
95	100		
174	76.3	0.0	147.8
176	74.1	0.0	142.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.036 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

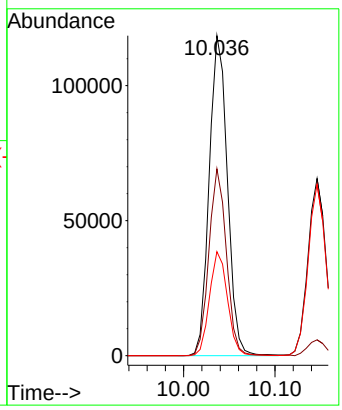
Tgt Ion:117 Resp: 16358

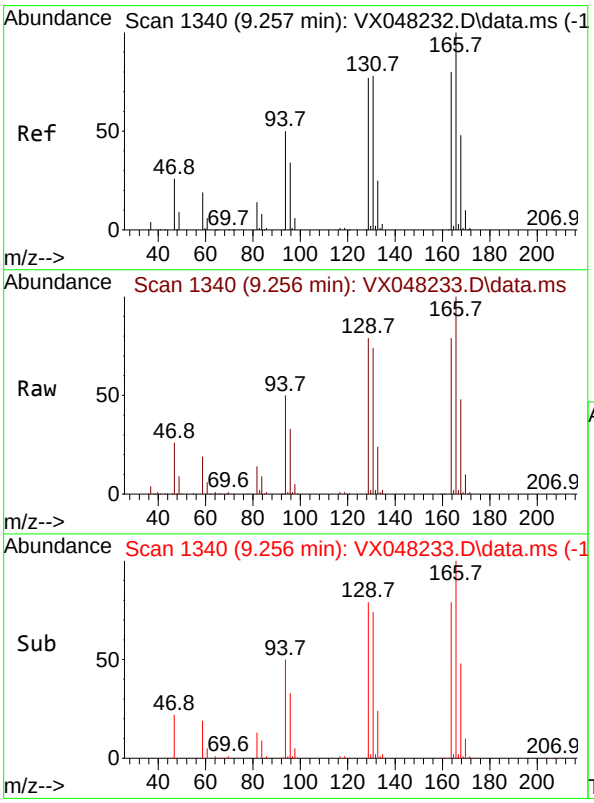
Ion	Ratio	Lower	Upper
117	100		
82	58.4	46.5	69.7
119	32.5	25.9	38.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

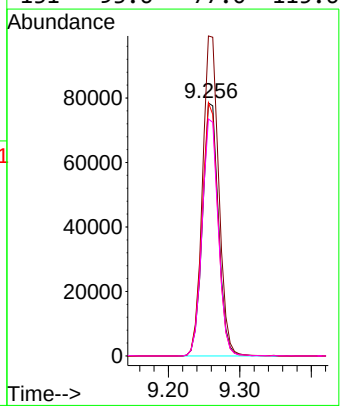


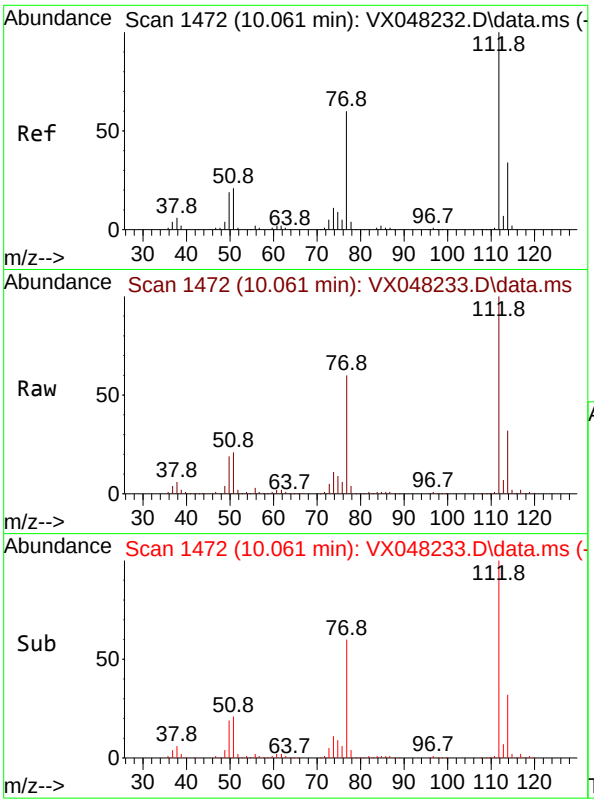


#64
Tetrachloroethene
Concen: 105.633 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:164 Resp: 121163

Ion	Ratio	Lower	Upper
164	100		
166	126.5	104.5	156.7
129	100.1	81.8	122.6
131	93.6	77.0	115.6

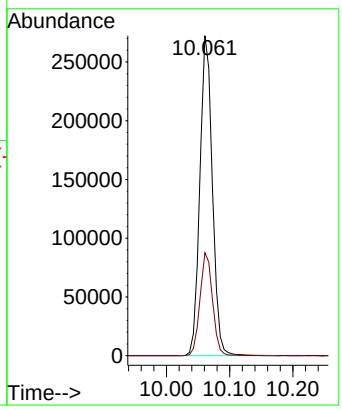




#65
Chlorobenzene
Concen: 104.990 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:112 Resp: 37553

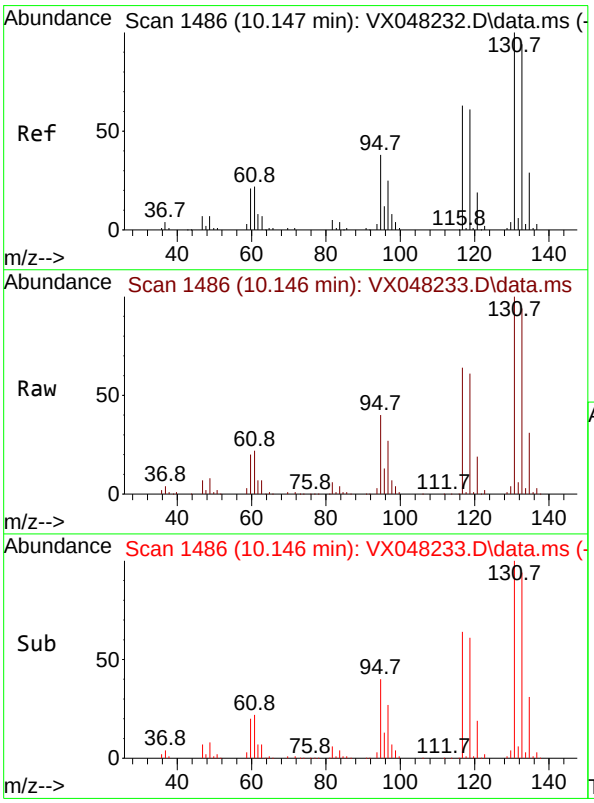
Ion	Ratio	Lower	Upper
112	100		
114	32.1	26.2	39.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

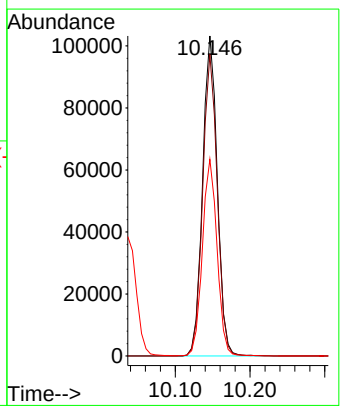
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

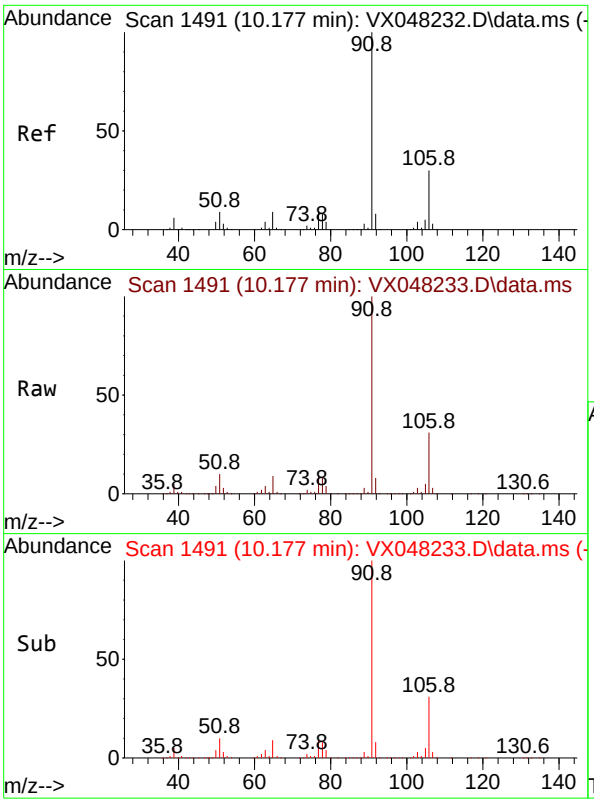


#66
1,1,1,2-Tetrachloroethane
Concen: 109.080 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:131 Resp: 140599

Ion	Ratio	Lower	Upper
131	100		
133	93.7	47.6	142.8
119	61.6	32.5	97.5





#67
Ethyl Benzene
Concen: 107.128 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

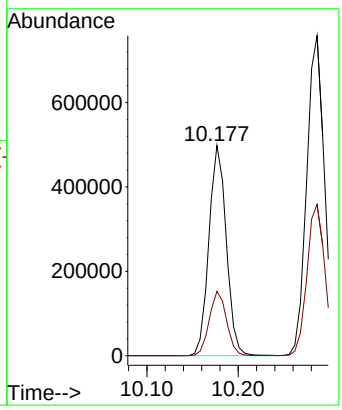
Tgt Ion: 91 Resp: 65692

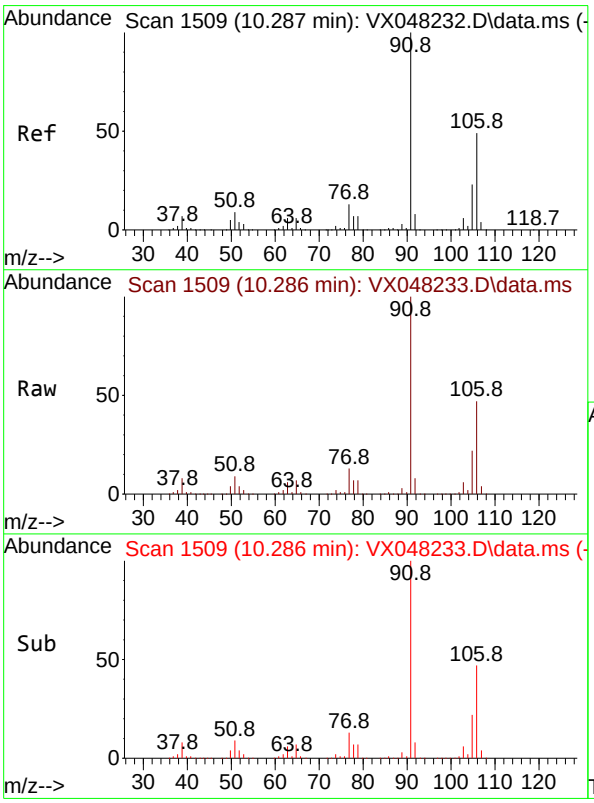
Ion	Ratio	Lower	Upper
91	100		
106	30.6	23.8	35.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

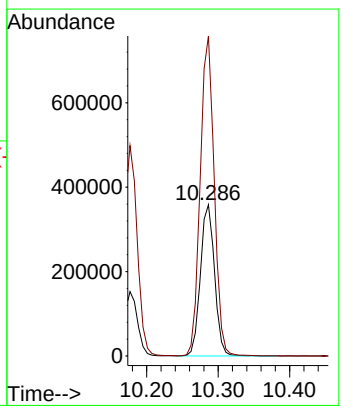


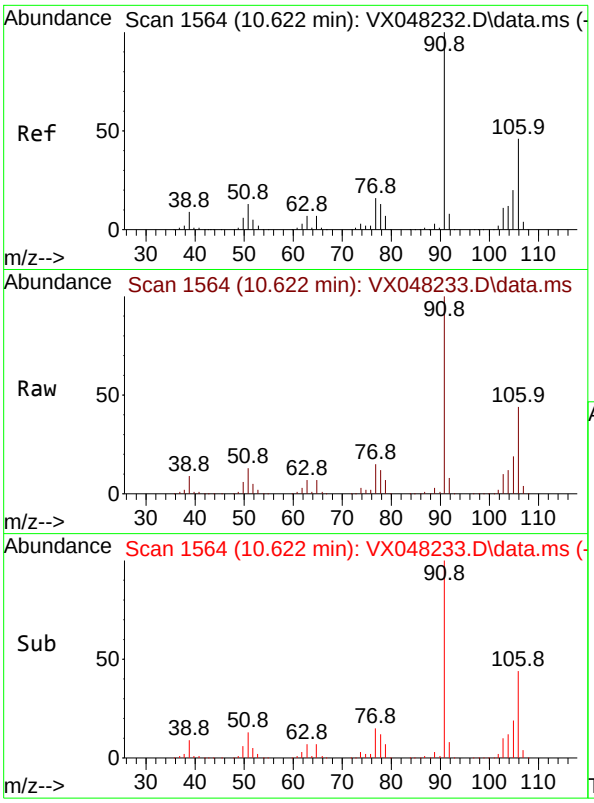


#68
m/p-Xylenes
Concen: 214.875 ug/l
RT: 10.286 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:106 Resp: 490879

Ion	Ratio	Lower	Upper
106	100		
91	210.5	167.9	251.9





#69
o-Xylene
Concen: 110.042 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

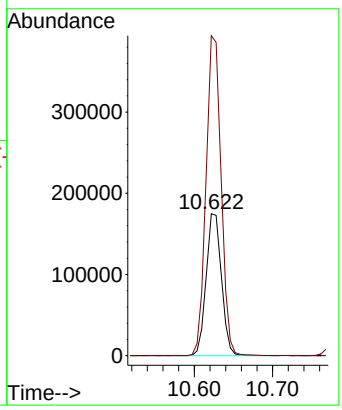
Tgt Ion:106 Resp: 23664

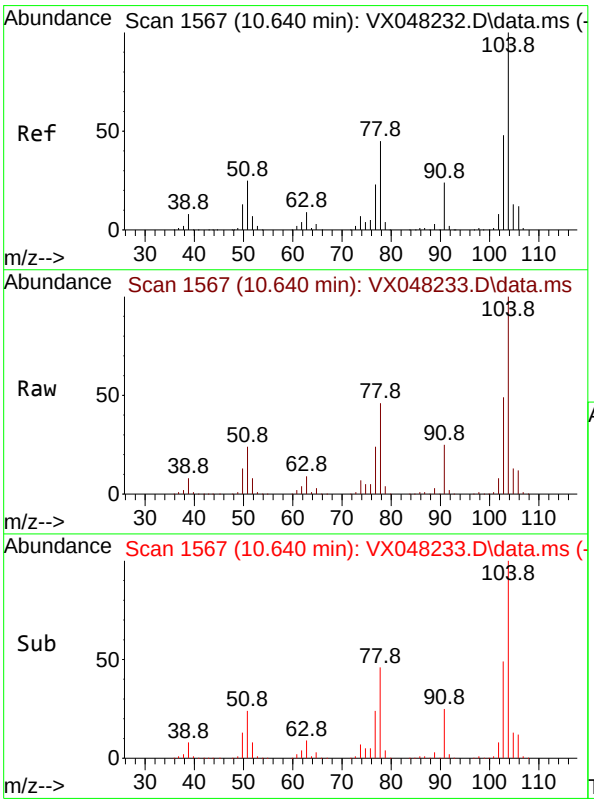
Ion	Ratio	Lower	Upper
106	100		
91	222.9	111.3	333.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

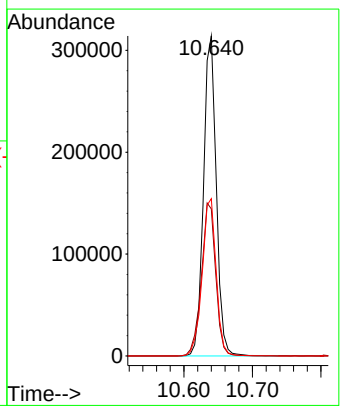


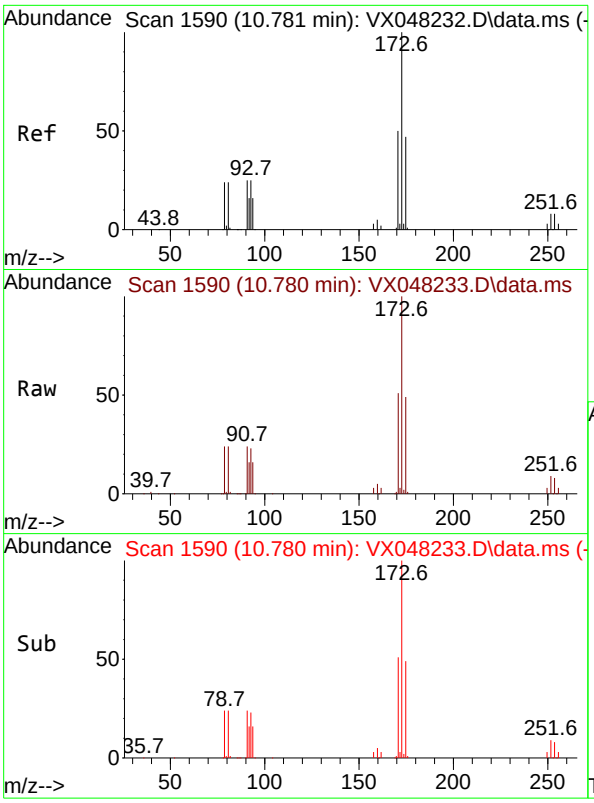


#70
Styrene
Concen: 110.197 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:104 Resp: 407916

Ion	Ratio	Lower	Upper
104	100		
78	53.6	42.2	63.4
103	54.0	43.0	64.4

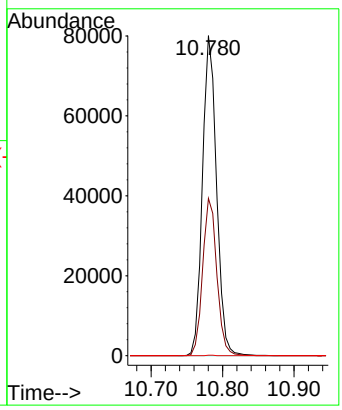




#71
Bromoform
Concen: 115.806 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:173 Resp: 10961

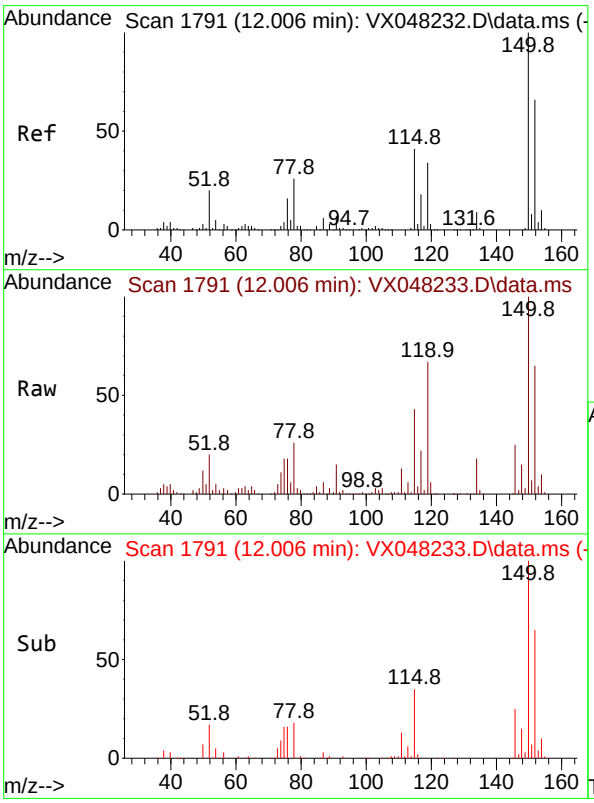
Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.0	72.0
254	0.1	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

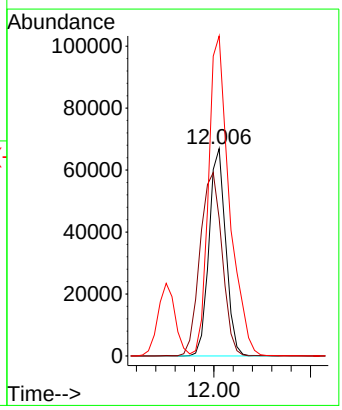
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

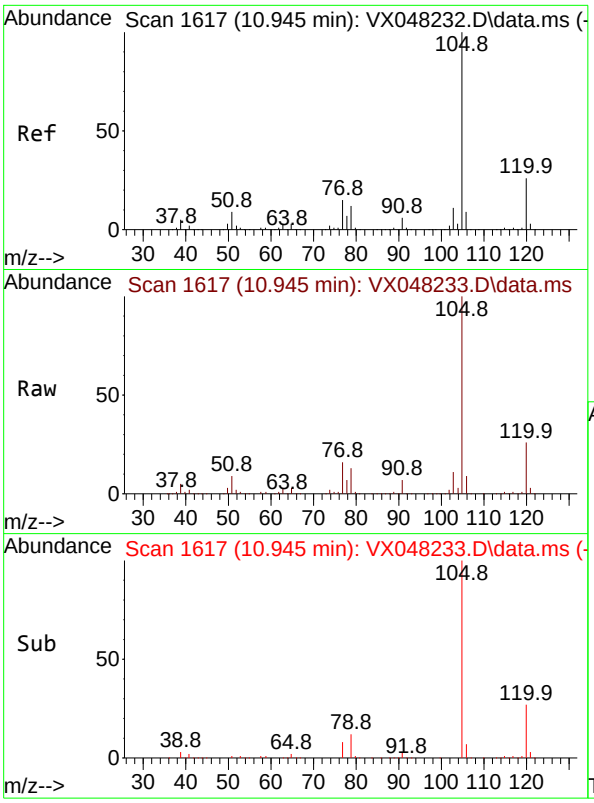


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:152 Resp: 80621

Ion	Ratio	Lower	Upper
152	100		
115	116.4	43.1	129.4
150	192.6	0.0	353.0





#73
Isopropylbenzene
Concen: 111.418 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

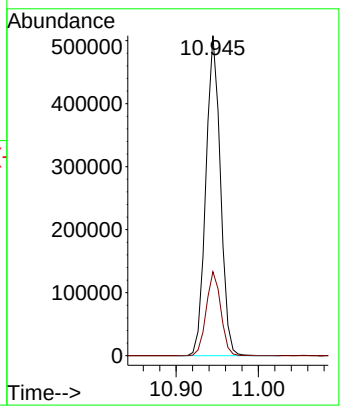
Tgt Ion:105 Resp: 62476

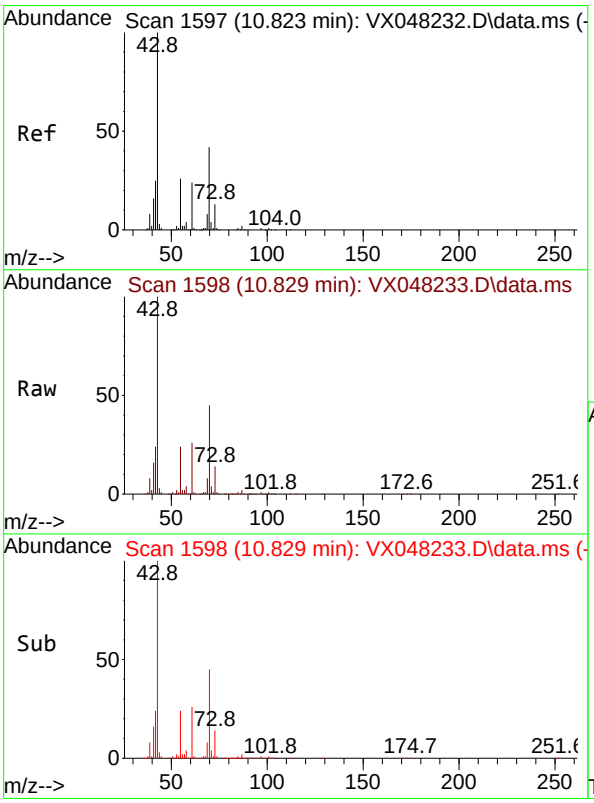
Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.0	38.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

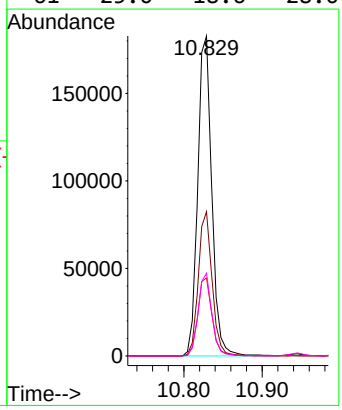


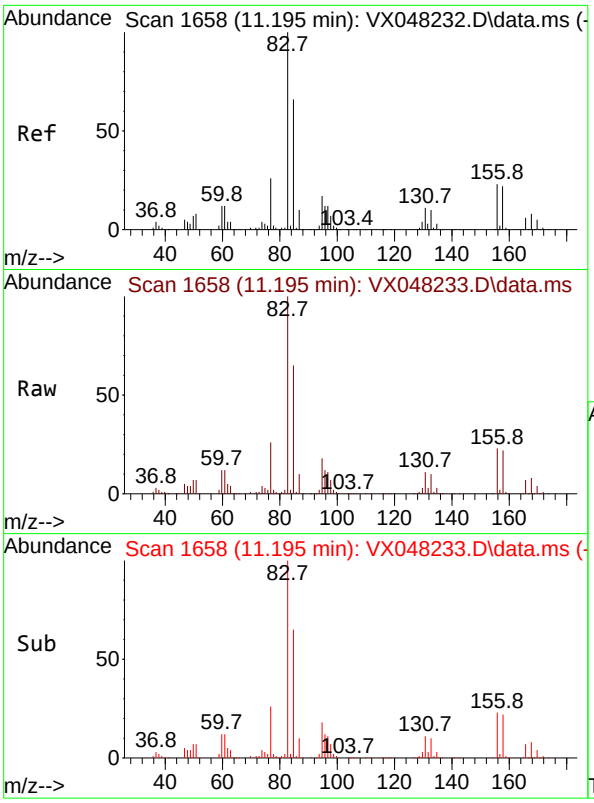


#74
N-amyl acetate
Concen: 109.030 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 43 Resp: 228080

Ion	Ratio	Lower	Upper
43	100		
70	44.4	32.2	48.2
55	24.8	19.1	28.7
61	25.0	18.6	28.0





#75
1,1,2,2-Tetrachloroethane
Concen: 103.367 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

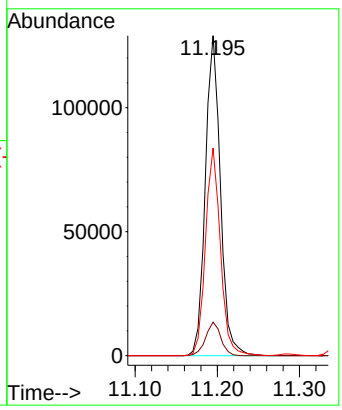
Tgt Ion: 83 Resp: 16420

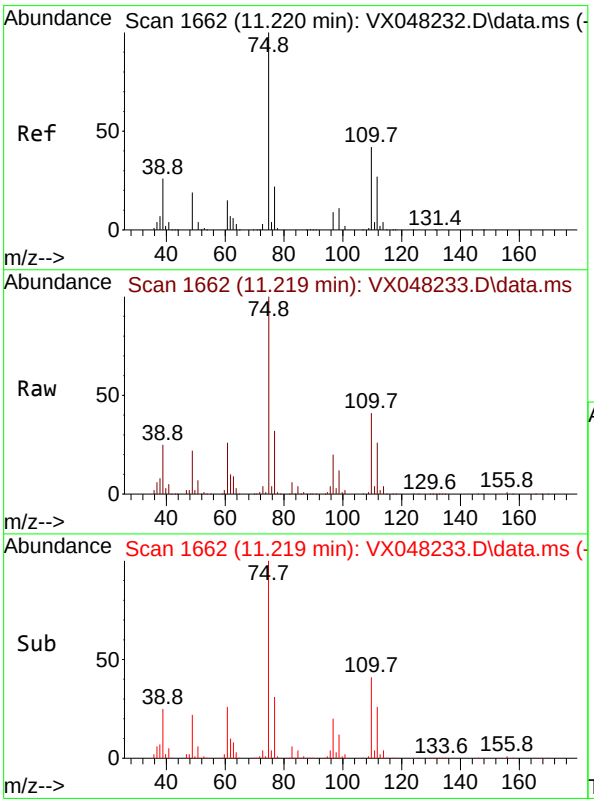
Ion	Ratio	Lower	Upper
83	100		
131	10.6	4.8	14.4
85	64.4	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

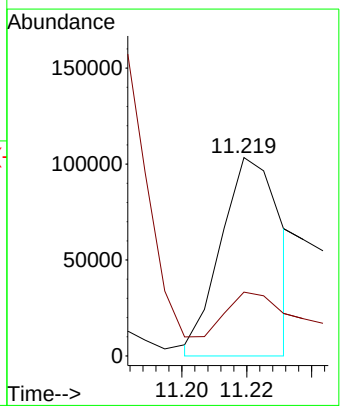


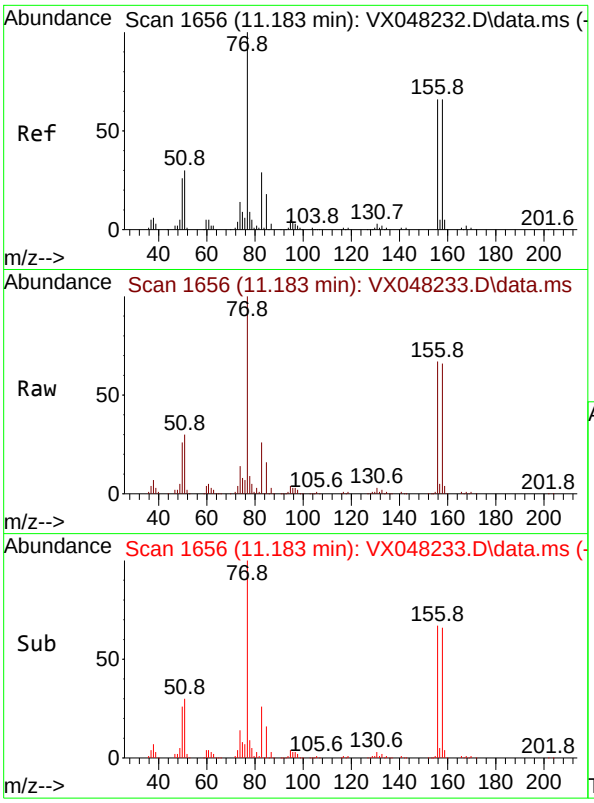


#76
1,2,3-Trichloropropane
Concen: 106.083 ug/l m
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 75 Resp: 130599

Ion	Ratio	Lower	Upper
75	100		
77	45.0	22.4	67.2





#77
Bromobenzene
Concen: 109.475 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

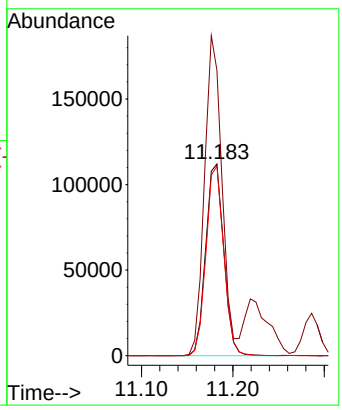
Tgt Ion:156 Resp: 153619

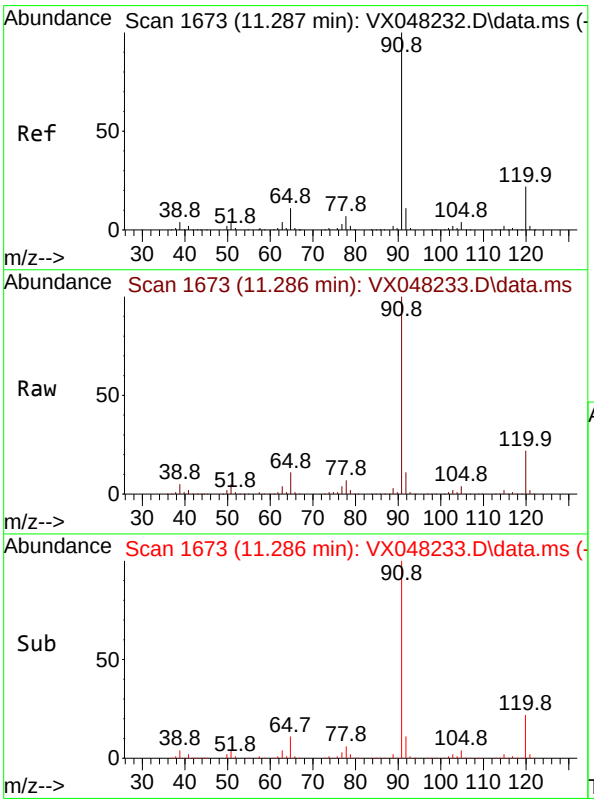
Ion	Ratio	Lower	Upper
156	100		
77	159.4	87.0	261.0
158	96.9	47.8	143.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

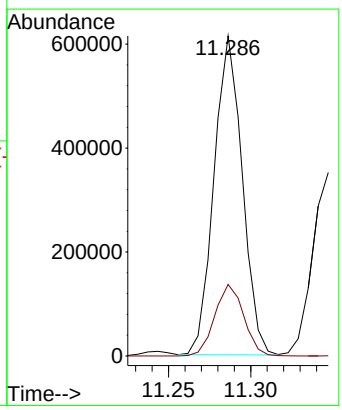


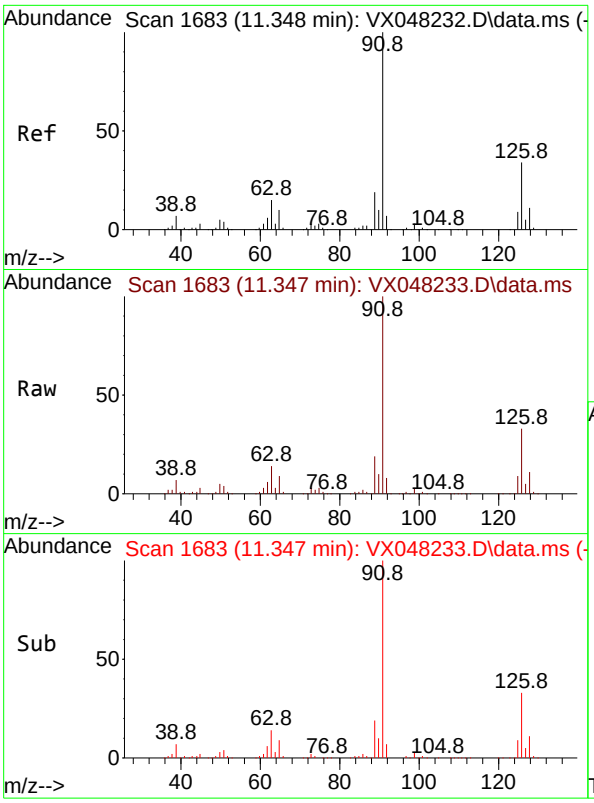


#78
n-propylbenzene
Concen: 107.747 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 91 Resp: 732684

Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.1	33.1





#79
2-Chlorotoluene
Concen: 105.691 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

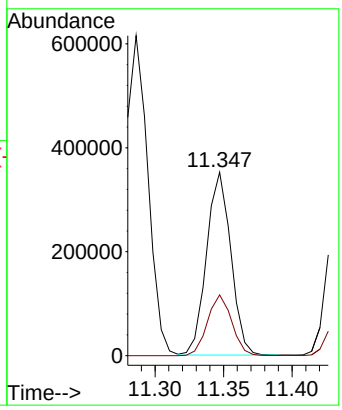
Tgt Ion: 91 Resp: 43421

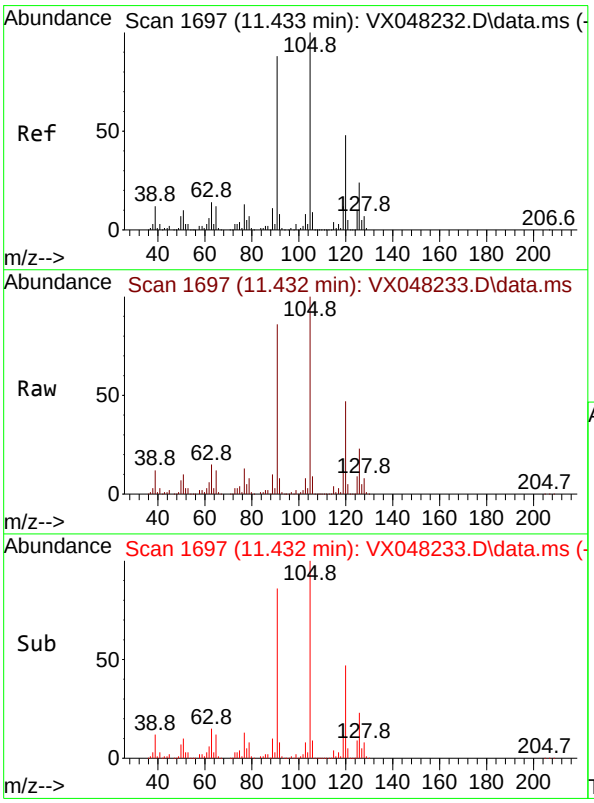
Ion	Ratio	Lower	Upper
91	100		
126	33.2	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

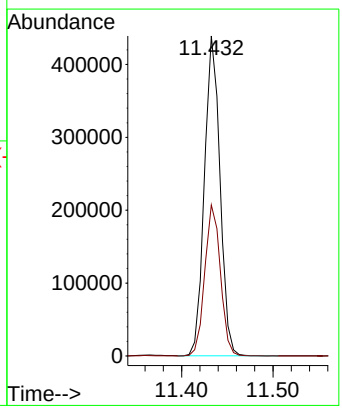


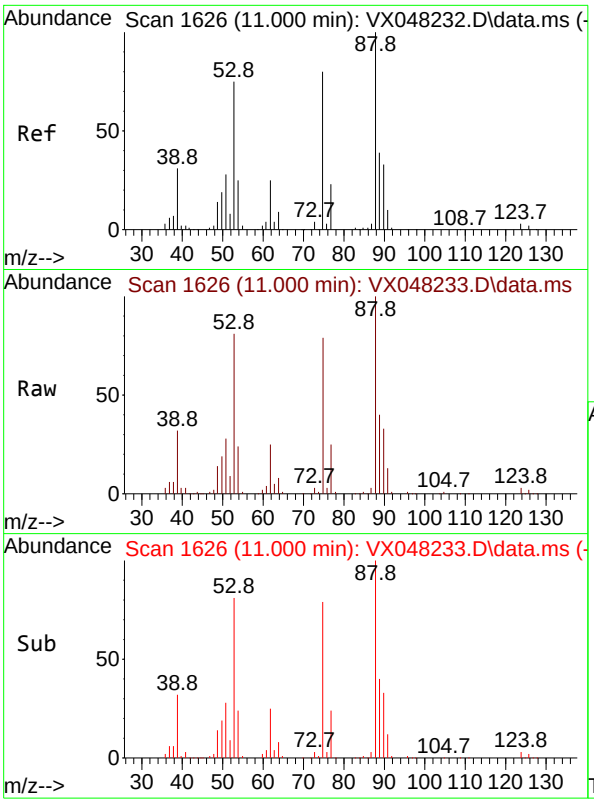


#80
1,3,5-Trimethylbenzene
Concen: 112.876 ug/l
RT: 11.432 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:105 Resp: 519549

Ion	Ratio	Lower	Upper
105	100		
120	47.6	24.0	72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 117.466 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

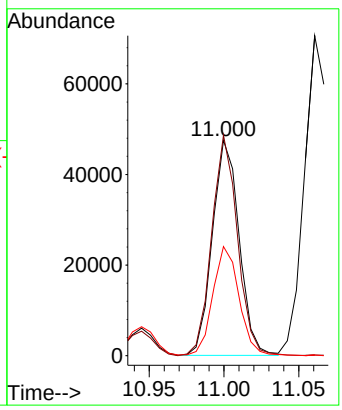
Tgt Ion: 75 Resp: 5905

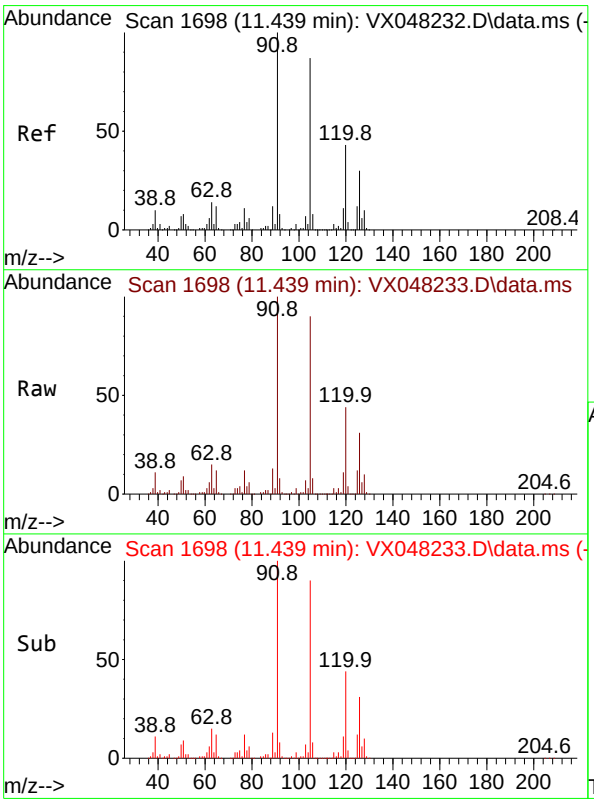
Ion	Ratio	Lower	Upper
75	100		
53	98.7	79.5	119.3
89	49.9	36.8	55.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

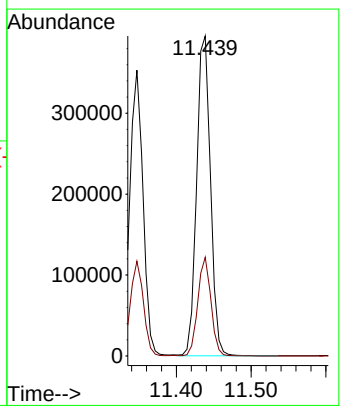


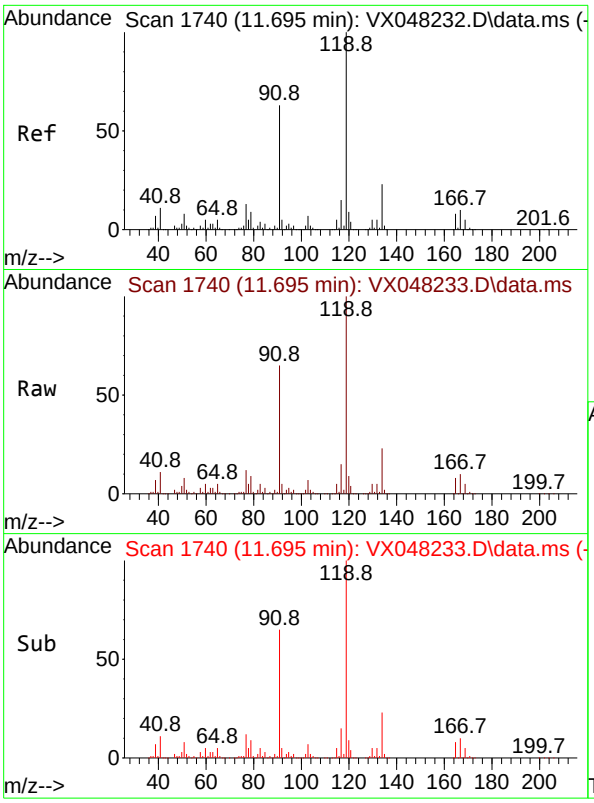


#82
4-Chlorotoluene
Concen: 104.983 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 91 Resp: 506861

Ion	Ratio	Lower	Upper
91	100		
126	29.5	14.1	42.4

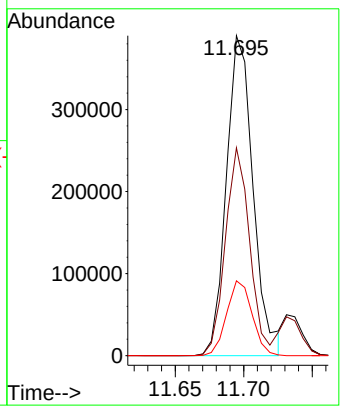




#83
tert-Butylbenzene
Concen: 113.817 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:119 Resp: 52926

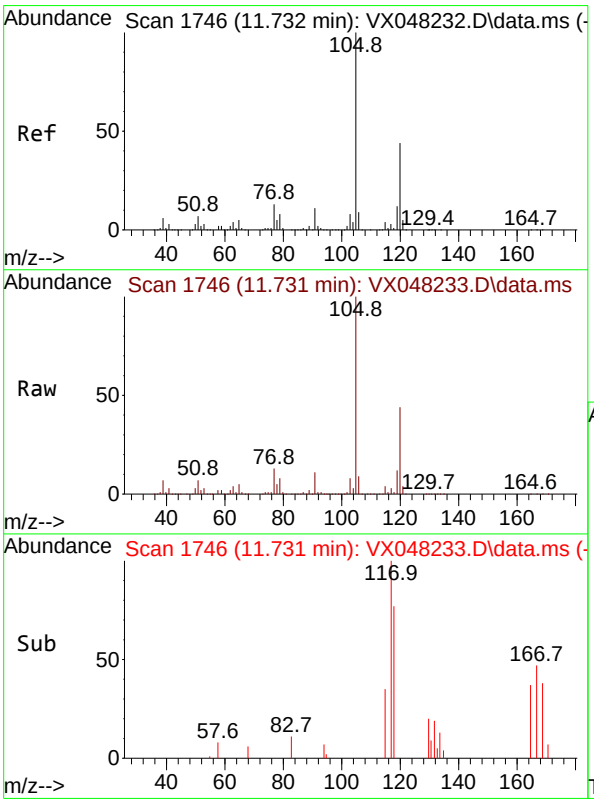
Ion	Ratio	Lower	Upper
119	100		
91	59.1	30.3	91.0
134	22.3	11.4	34.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

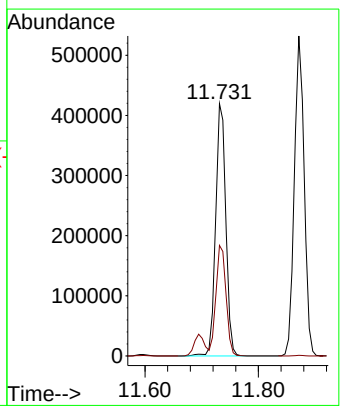
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

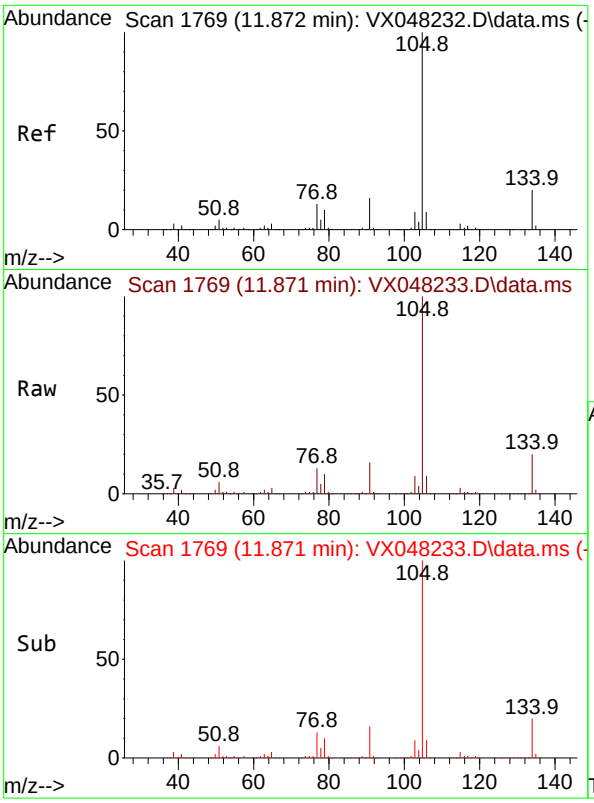


#84
1,2,4-Trimethylbenzene
Concen: 114.214 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:105 Resp: 523474

Ion	Ratio	Lower	Upper
105	100		
120	43.5	22.1	66.5





#85
sec-Butylbenzene
Concen: 112.562 ug/l
RT: 11.871 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

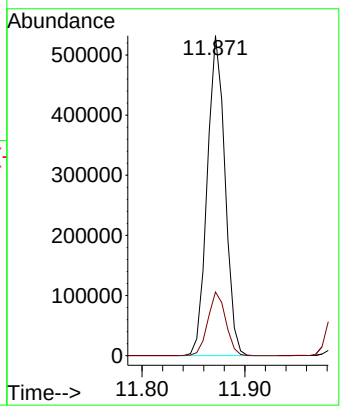
Tgt Ion:105 Resp: 63990

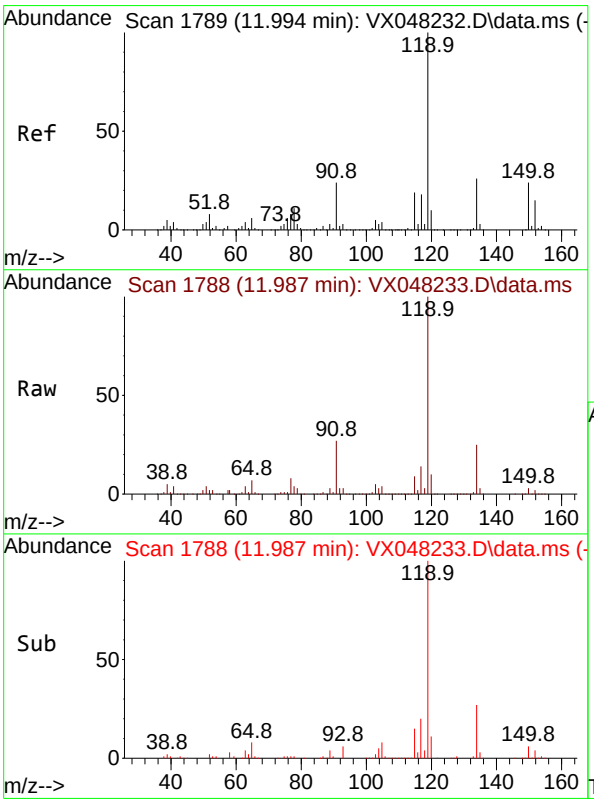
Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.1	30.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

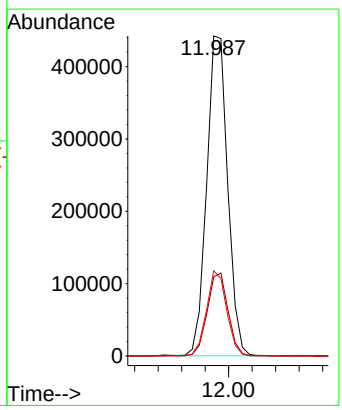


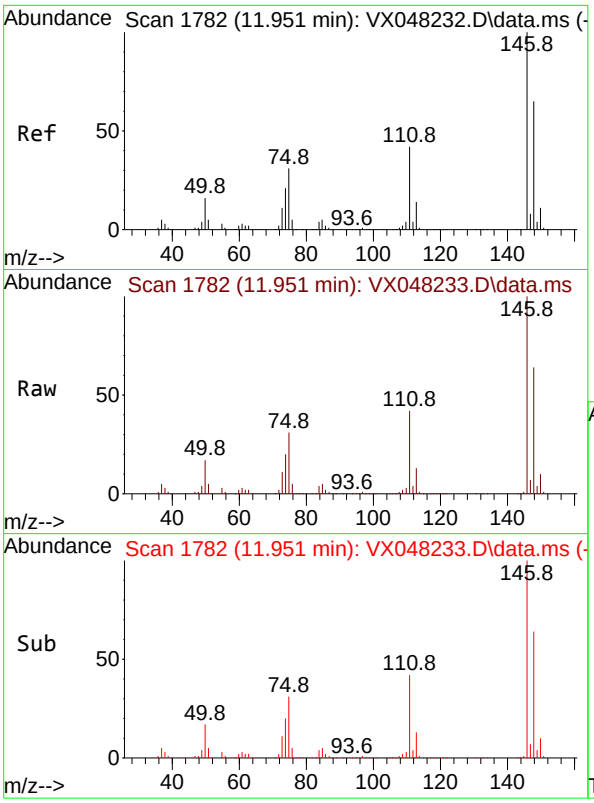


#86
p-Isopropyltoluene
Concen: 114.386 ug/l
RT: 11.987 min Scan# 1788
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:119 Resp: 548119

Ion	Ratio	Lower	Upper
119	100		
134	25.7	13.0	39.0
91	25.5	12.1	36.3

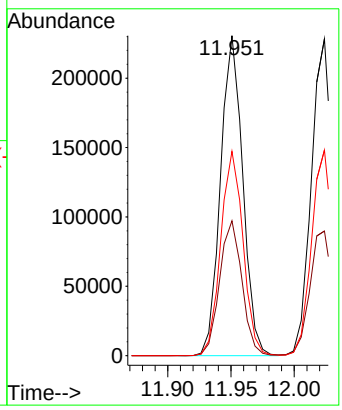




#87
1,3-Dichlorobenzene
Concen: 107.314 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:146 Resp: 28161

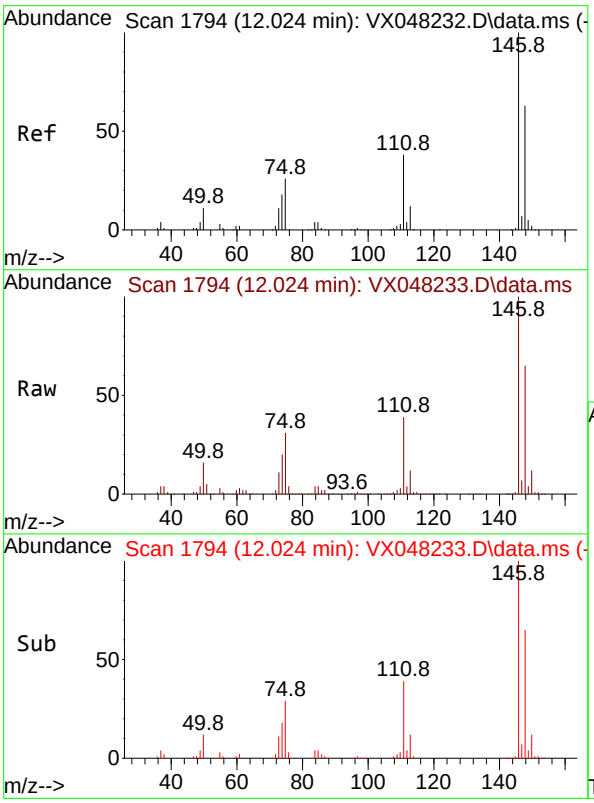
Ion	Ratio	Lower	Upper
146	100		
111	42.4	20.4	61.2
148	64.2	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

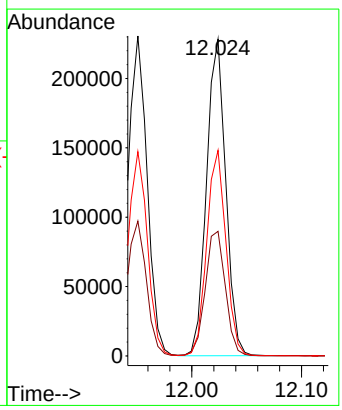
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

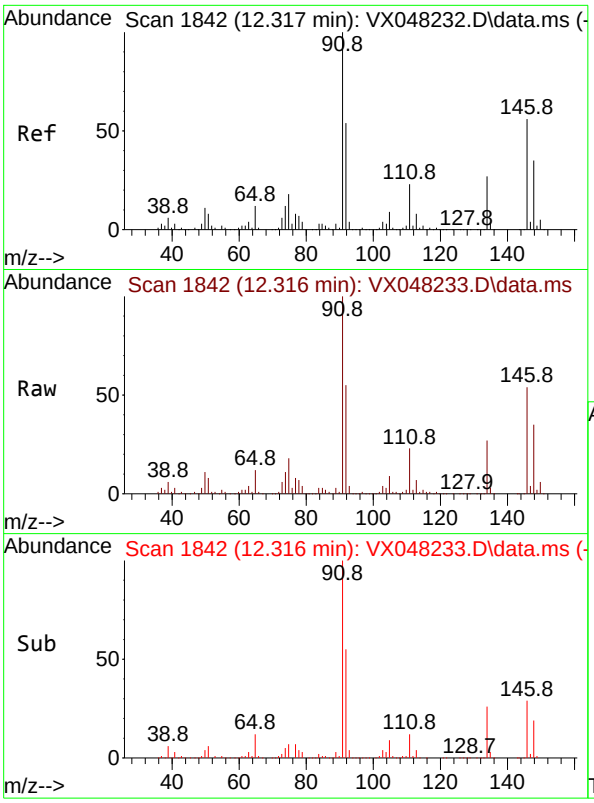


#88
1,4-Dichlorobenzene
Concen: 102.163 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:146 Resp: 277908

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.1	60.2
148	65.0	31.8	95.3





#89
n-Butylbenzene
Concen: 111.016 ug/l
RT: 12.316 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

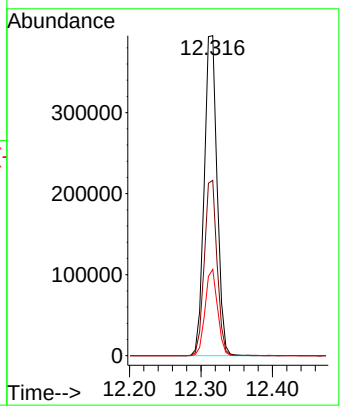
Tgt Ion: 91 Resp: 49548

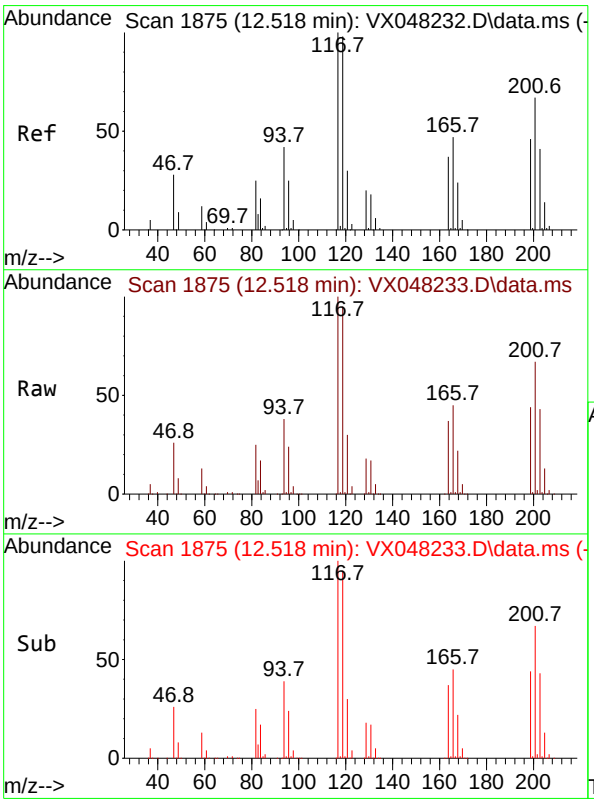
Ion	Ratio	Lower	Upper
91	100		
92	54.3	26.9	80.6
134	26.1	12.7	38.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

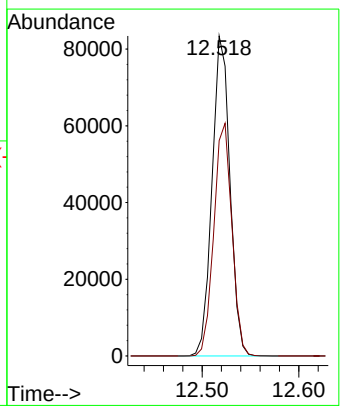


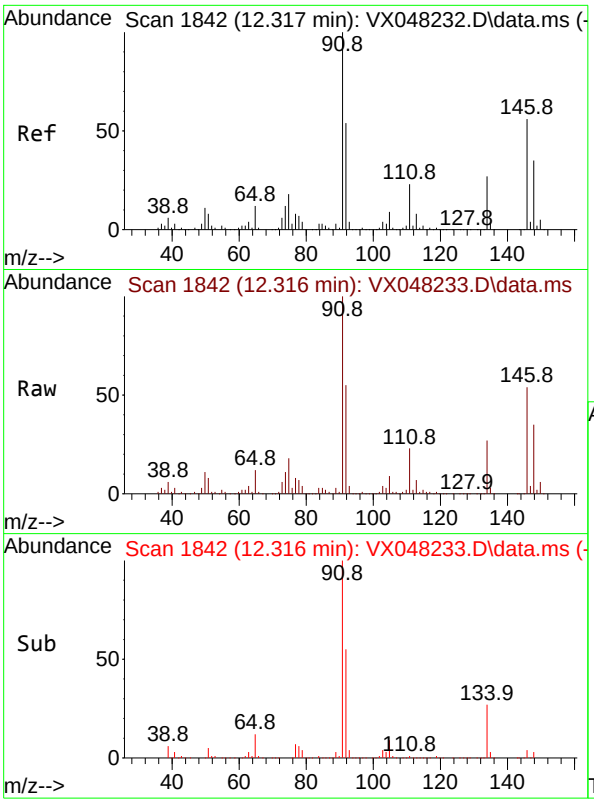


#90
Hexachloroethane
Concen: 105.851 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:117 Resp: 107057

Ion	Ratio	Lower	Upper
117	100		
201	73.5	34.1	102.2

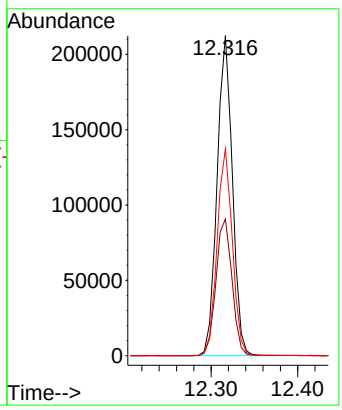




#91
1,2-Dichlorobenzene
Concen: 105.277 ug/l
RT: 12.316 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:146 Resp: 26102

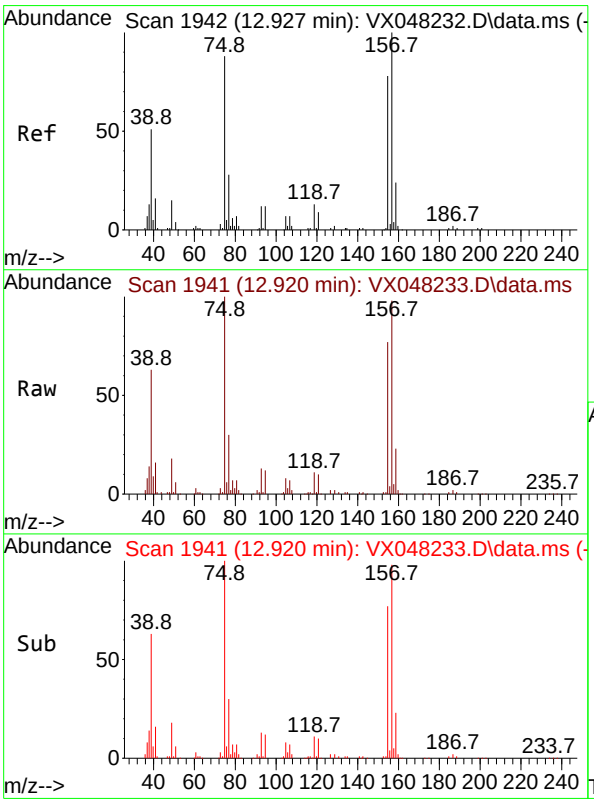
Ion	Ratio	Lower	Upper
146	100		
111	44.7	21.9	65.5
148	64.5	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

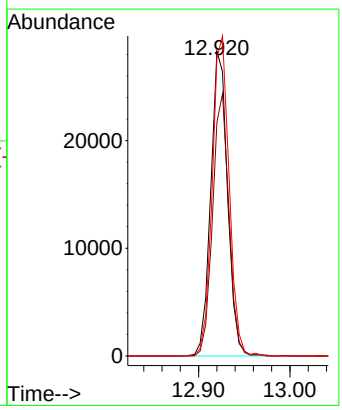
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

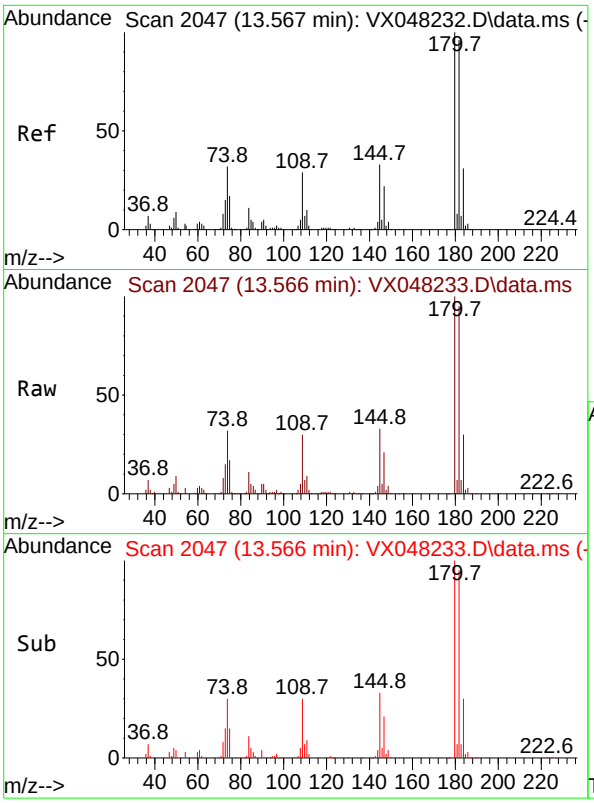


#92
1,2-Dibromo-3-Chloropropane
Concen: 124.320 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 75 Resp: 36087

Ion	Ratio	Lower	Upper
75	100		
155	83.6	42.8	128.4
157	105.4	54.2	162.6





#93
1,2,4-Trichlorobenzene
Concen: 122.679 ug/l
RT: 13.566 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

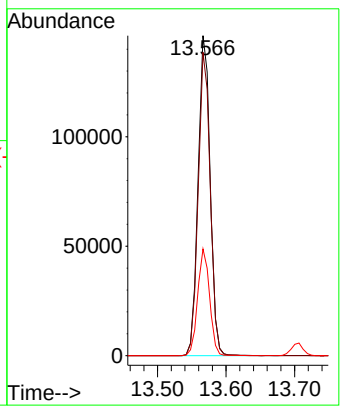
Tgt Ion:180 Resp: 17956

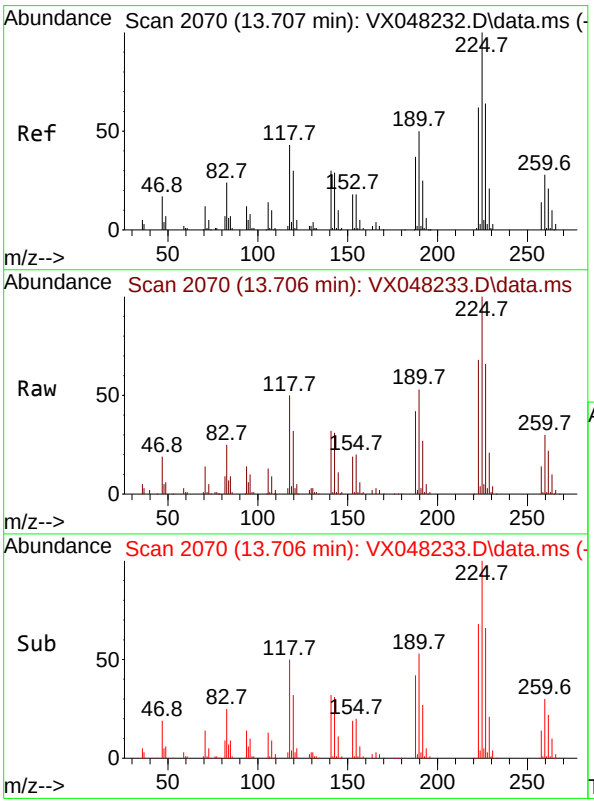
Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.3	142.0
145	33.0	16.3	48.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

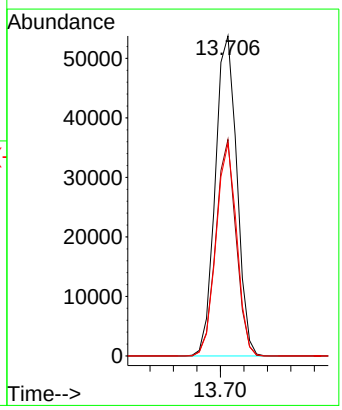


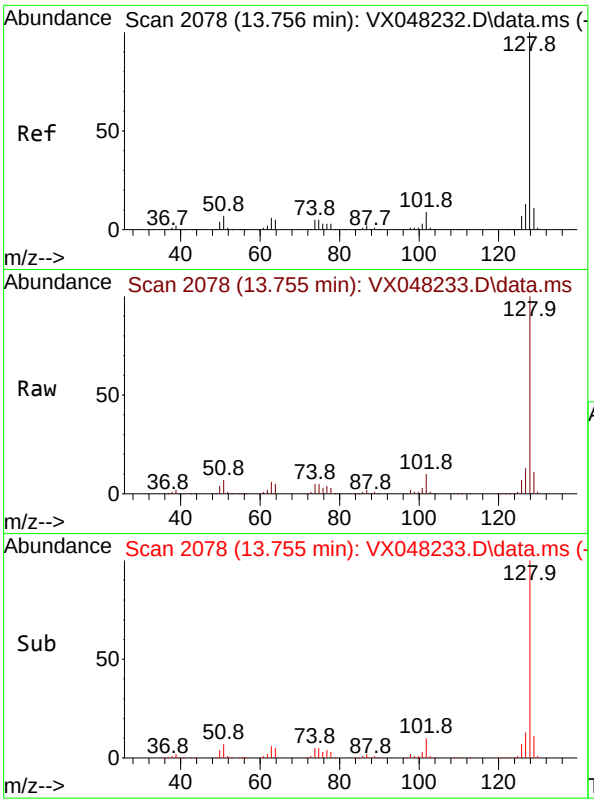


#94
Hexachlorobutadiene
Concen: 121.605 ug/l
RT: 13.706 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:225 Resp: 68645

Ion	Ratio	Lower	Upper
225	100		
223	63.3	32.6	97.7
227	63.5	32.5	97.4

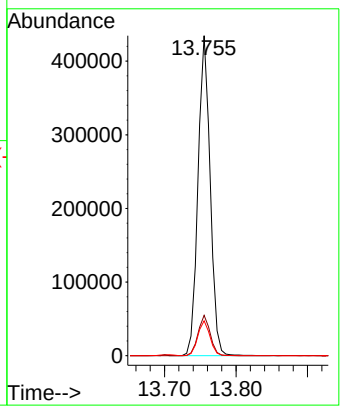




#95
Naphthalene
Concen: 132.536 ug/l
RT: 13.755 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:128 Resp: 51135

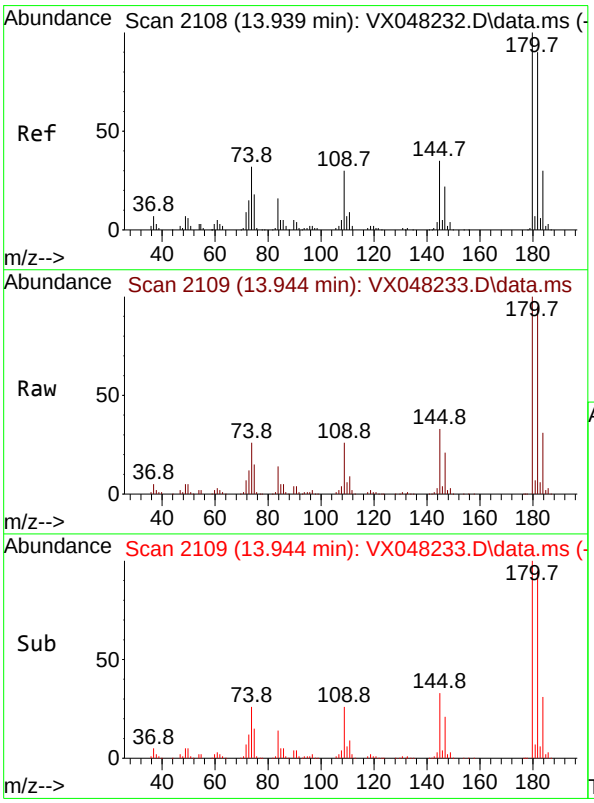
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.4
129	10.9	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

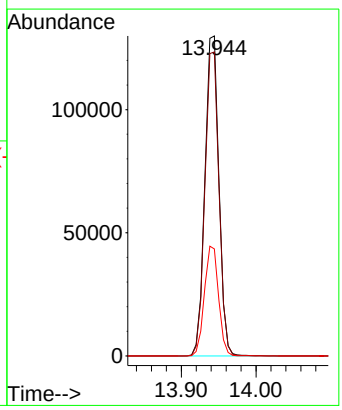
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 125.328 ug/l
RT: 13.944 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:180 Resp: 169248

Ion	Ratio	Lower	Upper
180	100		
182	95.5	46.6	139.7
145	34.6	16.9	50.7



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048234.D
Acq On : 20 Oct 2025 12:43
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 13:01:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 12:35:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	112063	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	180904	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	155759	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	75397	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	234807	135.251	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 270.500%#			
35) Dibromofluoromethane	5.373	113	188821	150.393	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 300.780%#			
50) Toluene-d8	8.635	98	648652	143.408	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 286.820%#			
62) 4-Bromofluorobenzene	11.061	95	239298	145.255	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 290.520%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	169514	144.124	ug/l	95
3) Chloromethane	1.301	50	158322	111.112	ug/l	99
4) Vinyl Chloride	1.380	62	149708	99.710	ug/l	99
5) Bromomethane	1.605	94	92946	93.091	ug/l	97
6) Chloroethane	1.685	64	89813	93.997	ug/l	96
7) Trichlorofluoromethane	1.892	101	292007	123.905	ug/l	99
8) Diethyl Ether	2.136	74	81474	101.352	ug/l	88
9) 1,1,2-Trichlorotrifluo...	2.331	101	184438	138.880	ug/l	96
10) Methyl Iodide	2.453	142	249395	156.785	ug/l	100
11) Tert butyl alcohol	2.959	59	107295	931.439	ug/l	100
12) 1,1-Dichloroethene	2.325	96	178408	137.389	ug/l	95
13) Acrolein	2.239	56	123365	509.584	ug/l	99
14) Allyl chloride	2.666	41	293697	125.734	ug/l	98
15) Acrylonitrile	3.062	53	412892	748.019	ug/l	100
16) Acetone	2.380	43	347029	585.970	ug/l	99
17) Carbon Disulfide	2.514	76	515144	128.936	ug/l	100
18) Methyl Acetate	2.697	43	169402	140.438	ug/l	93
19) Methyl tert-butyl Ether	3.111	73	593033	151.611	ug/l	97
20) Methylene Chloride	2.788	84	190483	132.030	ug/l	94
21) trans-1,2-Dichloroethene	3.093	96	187495	139.566	ug/l	98
22) Diisopropyl ether	3.757	45	571951	125.048	ug/l	93
23) Vinyl Acetate	3.715	43	2367511	692.251	ug/l	96
24) 1,1-Dichloroethane	3.605	63	342500	131.992	ug/l	99
25) 2-Butanone	4.544	43	487152	706.046	ug/l	96
26) 2,2-Dichloropropane	4.465	77	310572	140.027	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	222359	139.465	ug/l	98
28) Bromochloromethane	4.891	49	151812	126.922	ug/l	87
29) Tetrahydrofuran	4.989	42	301745	744.697	ug/l	94
30) Chloroform	5.080	83	358626	131.272	ug/l	98
31) Cyclohexane	5.464	56	291302	137.199	ug/l	91
32) 1,1,1-Trichloroethane	5.373	97	338462	150.785	ug/l	98
36) 1,1-Dichloropropene	5.684	75	249688	141.173	ug/l	99
37) Ethyl Acetate	4.702	43	208614	147.588	ug/l	97
38) Carbon Tetrachloride	5.666	117	307892	151.663	ug/l	100
39) Methylcyclohexane	7.367	83	315911	158.416	ug/l	95
40) Benzene	6.025	78	730908	139.172	ug/l	97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048234.D
Acq On : 20 Oct 2025 12:43
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 20 13:01:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 12:35:14 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	115351	152.378	ug/l		97
42) 1,2-Dichloroethane	6.074	62	269245	143.093	ug/l		99
43) Isopropyl Acetate	6.324	43	361084	152.180	ug/l		96
44) Trichloroethene	7.110	130	197244	149.022	ug/l		98
45) 1,2-Dichloropropane	7.415	63	180619	135.890	ug/l		99
46) Dibromomethane	7.568	93	135105	141.273	ug/l		94
47) Bromodichloromethane	7.805	83	292063	141.302	ug/l		97
48) Methyl methacrylate	7.677	41	184354	151.780	ug/l		95
49) 1,4-Dioxane	7.647	88	49895	4563.512	ug/l		88
51) 4-Methyl-2-Pentanone	8.561	43	983125	744.604	ug/l		94
52) Toluene	8.702	92	460742	145.964	ug/l		99
53) t-1,3-Dichloropropene	8.964	75	300251	155.059	ug/l		99
54) cis-1,3-Dichloropropene	8.354	75	317375	150.373	ug/l		94
55) 1,1,2-Trichloroethane	9.135	97	169894	144.250	ug/l		98
56) Ethyl methacrylate	9.104	69	272177	169.911	ug/l		94
57) 1,3-Dichloropropane	9.293	76	293650	142.707	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.232	63	705780	858.056	ug/l		95
59) 2-Hexanone	9.415	43	694736	752.256	ug/l		96
60) Dibromochloromethane	9.506	129	226642	153.740	ug/l		99
61) 1,2-Dibromoethane	9.592	107	182208	150.876	ug/l		99
64) Tetrachloroethene	9.263	164	168581	154.361	ug/l		91
65) Chlorobenzene	10.061	112	514967	151.209	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.147	131	191186	155.782	ug/l		98
67) Ethyl Benzene	10.177	91	898137	153.825	ug/l		99
68) m/p-Xylenes	10.287	106	661019	303.896	ug/l		99
69) o-Xylene	10.622	106	320334	156.444	ug/l		99
70) Styrene	10.640	104	548149	155.523	ug/l		98
71) Bromoform	10.781	173	152209	168.892	ug/l	#	99
73) Isopropylbenzene	10.945	105	849183	161.931	ug/l		100
74) N-amyl acetate	10.829	43	314879	160.952	ug/l		95
75) 1,1,2,2-Tetrachloroethane	11.195	83	224486	151.104	ug/l		99
76) 1,2,3-Trichloropropane	11.220	75	181434m	157.586	ug/l		
77) Bromobenzene	11.183	156	207212	157.899	ug/l		94
78) n-propylbenzene	11.287	91	991960	155.984	ug/l		98
79) 2-Chlorotoluene	11.348	91	585792	152.465	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	699885	162.591	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	83158	176.858	ug/l		97
82) 4-Chlorotoluene	11.439	91	691903	153.240	ug/l		99
83) tert-Butylbenzene	11.695	119	717642	165.020	ug/l		98
84) 1,2,4-Trimethylbenzene	11.732	105	707074	164.961	ug/l		99
85) sec-Butylbenzene	11.872	105	861466	162.035	ug/l		100
86) p-Isopropyltoluene	11.994	119	738496	164.794	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	386062	157.307	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	386885	152.078	ug/l		100
89) n-Butylbenzene	12.311	91	664071	159.098	ug/l		99
90) Hexachloroethane	12.518	117	145813	154.159	ug/l		94
91) 1,2-Dichlorobenzene	12.317	146	359278	154.946	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	50367	185.536	ug/l		98
93) 1,2,4-Trichlorobenzene	13.567	180	247472	180.791	ug/l		100
94) Hexachlorobutadiene	13.707	225	92458	175.138	ug/l		100
95) Naphthalene	13.756	128	719433	199.386	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	233671	185.022	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048234.D
Acq On : 20 Oct 2025 12:43
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 13:01:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 12:35:14 2025
Response via : Initial Calibration

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

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

ICAL Form

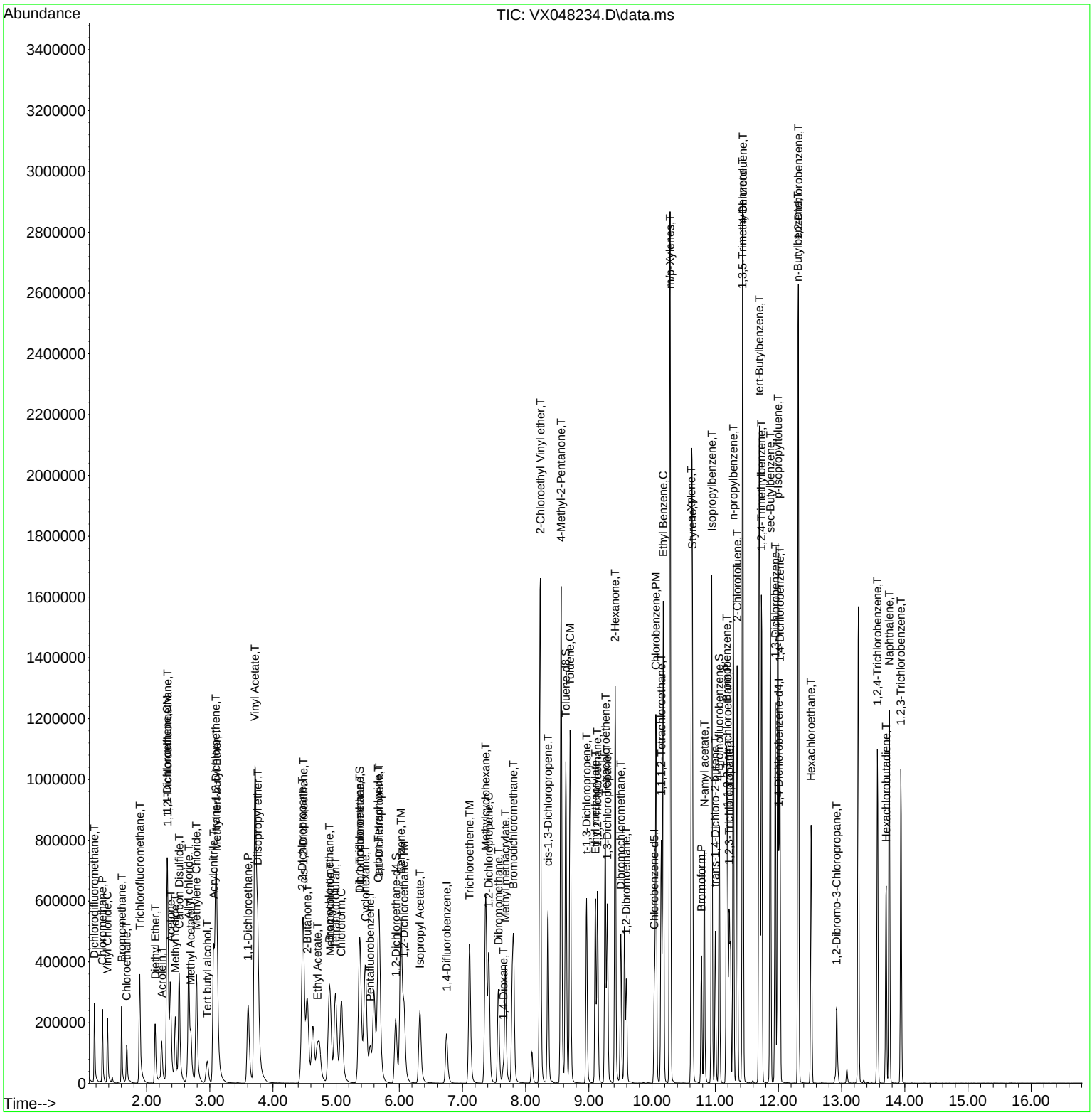
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048234.D
Acq On : 20 Oct 2025 12:43
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

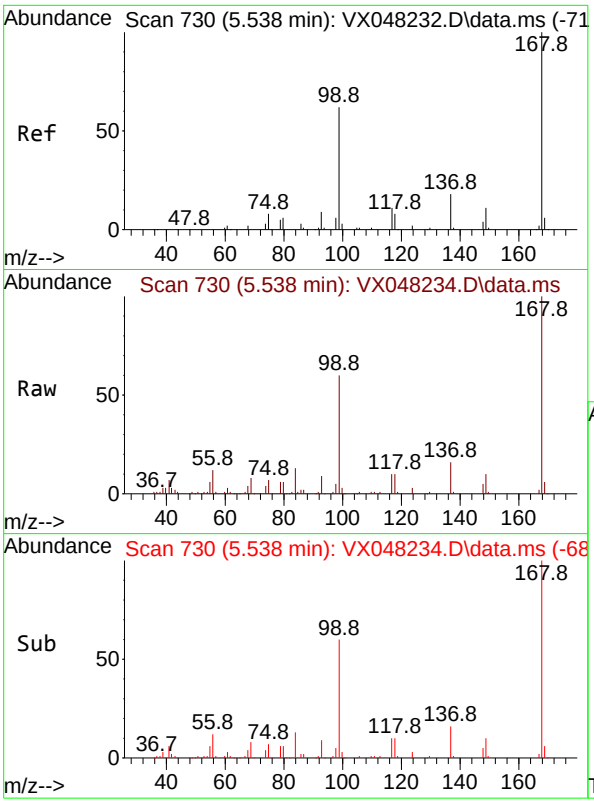
Quant Time: Oct 20 13:01:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 12:35:14 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

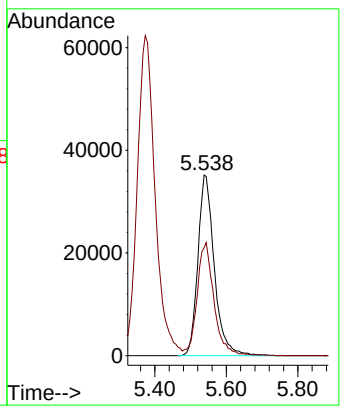




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:168 Resp: 11206

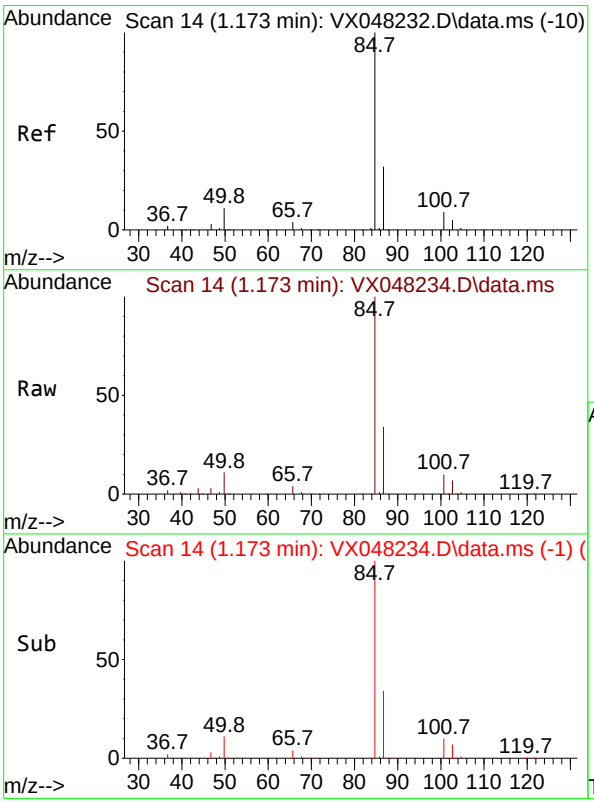
Ion	Ratio	Lower	Upper
168	100		
99	59.8	46.4	69.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

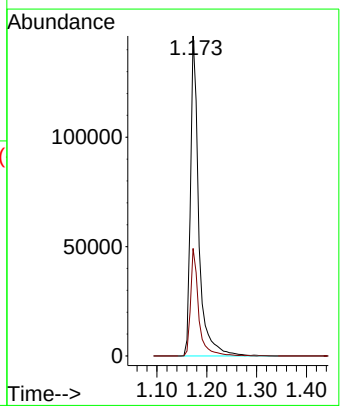
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

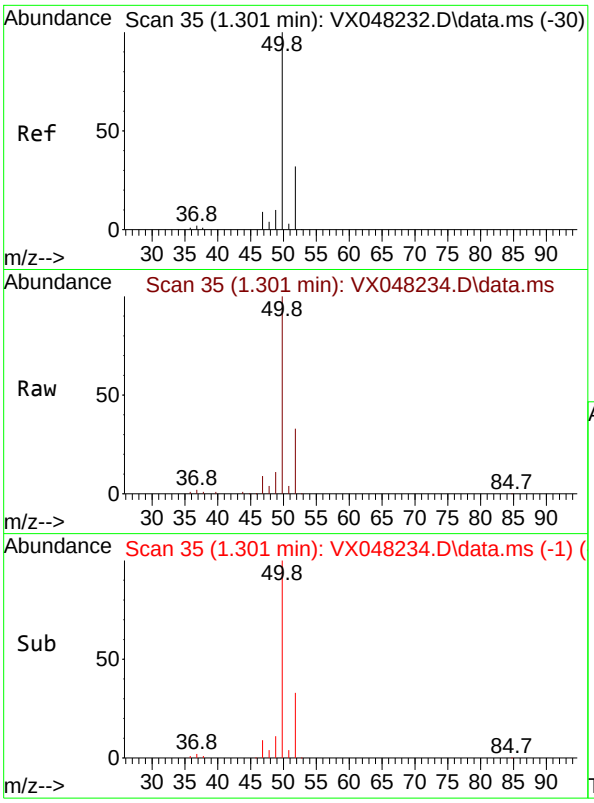


#2
Dichlorodifluoromethane
Concen: 144.124 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 85 Resp: 169514

Ion	Ratio	Lower	Upper
85	100		
87	33.6	15.3	45.9

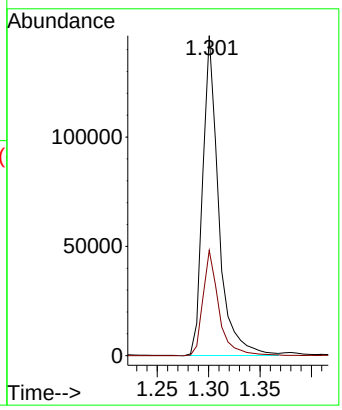




#3
Chloromethane
Concen: 111.112 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 50 Resp: 15832

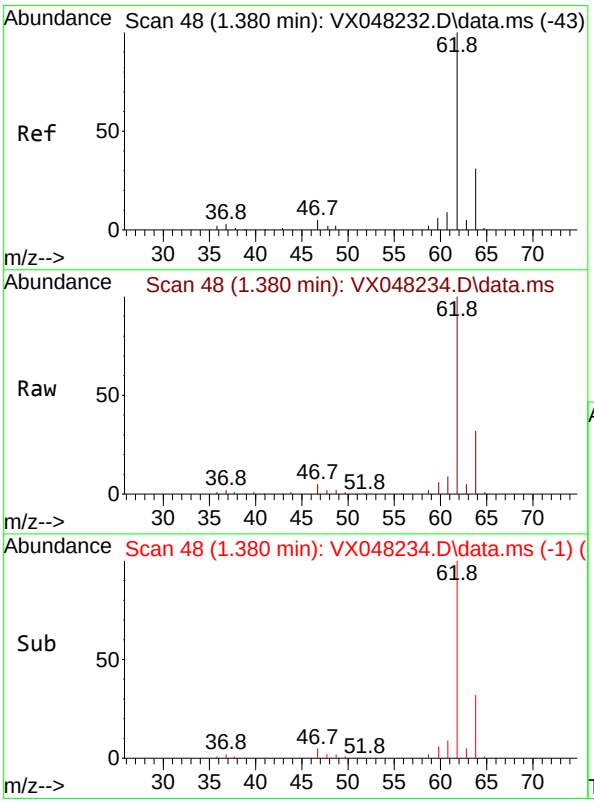
Ion	Ratio	Lower	Upper
50	100		
52	32.9	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

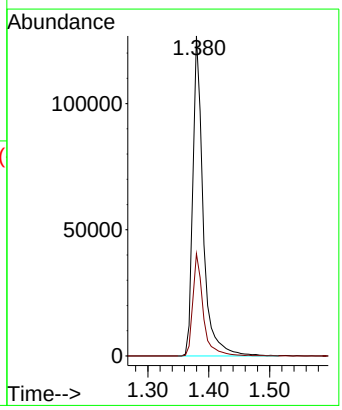
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

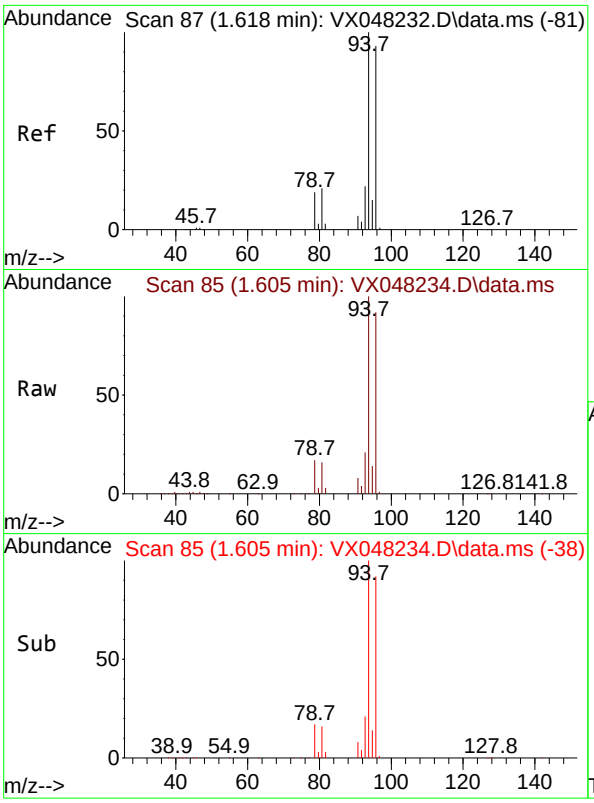


#4
Vinyl Chloride
Concen: 99.710 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 62 Resp: 149708

Ion	Ratio	Lower	Upper
62	100		
64	32.0	25.1	37.7

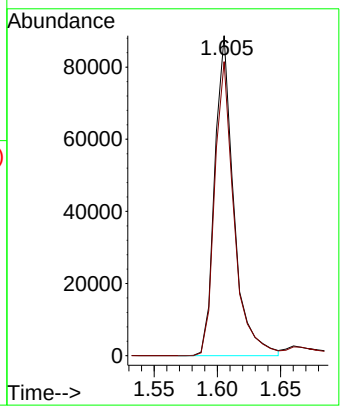




#5
Bromomethane
Concen: 93.091 ug/l
RT: 1.605 min Scan# 8
Delta R.T. -0.012 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 94 Resp: 9294

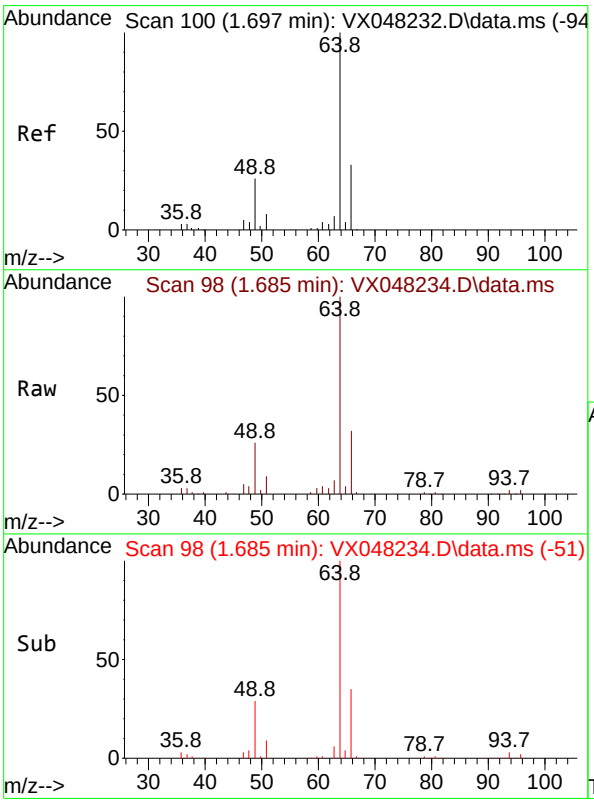
Ion	Ratio	Lower	Upper
94	100		
96	91.9	76.0	114.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

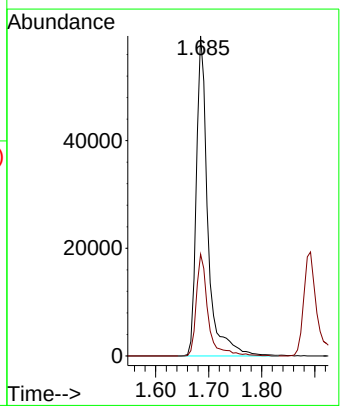
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

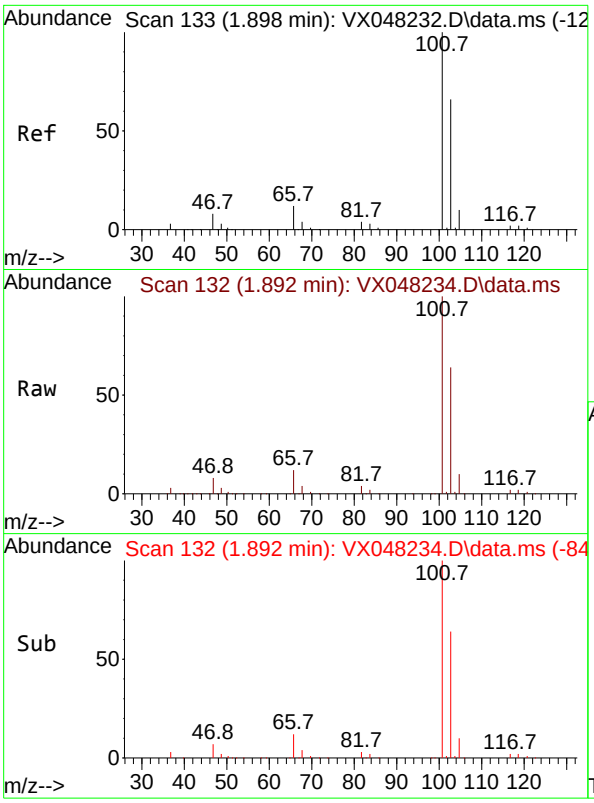


#6
Chloroethane
Concen: 93.997 ug/l
RT: 1.685 min Scan# 98
Delta R.T. -0.012 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 64 Resp: 89813

Ion	Ratio	Lower	Upper
64	100		
66	31.8	23.9	35.9





#7
Trichlorofluoromethane
Concen: 123.905 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

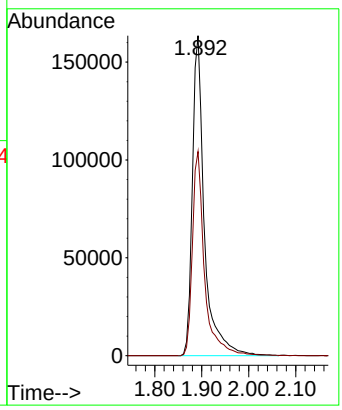
Tgt Ion:101 Resp: 29200

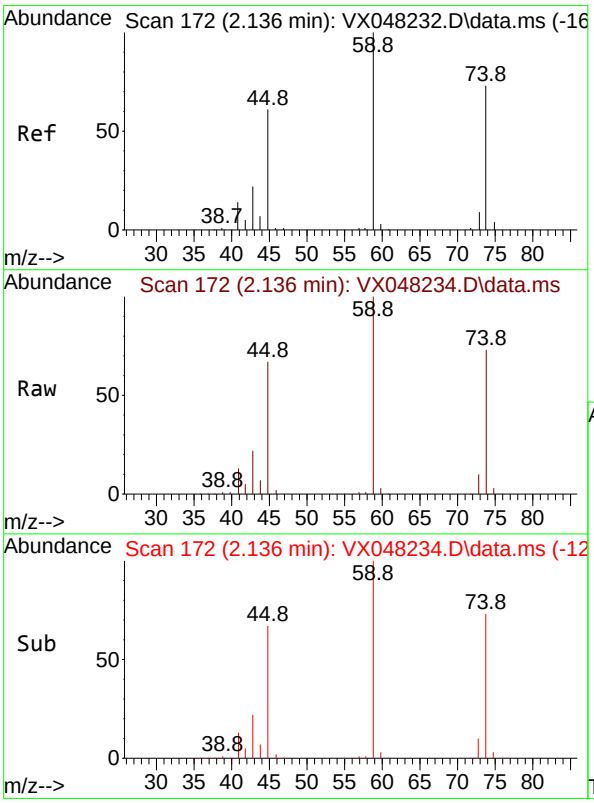
Ion	Ratio	Lower	Upper
101	100		
103	63.8	51.6	77.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

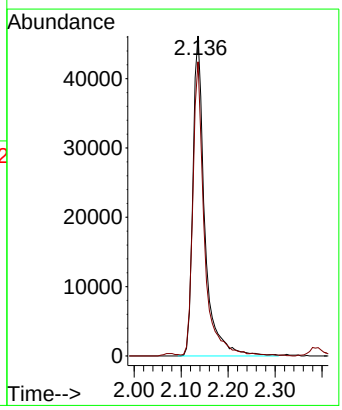


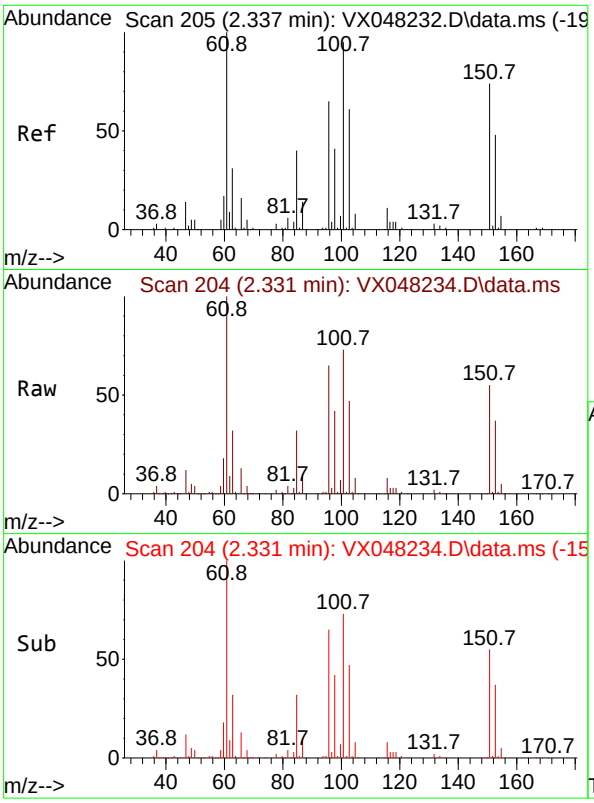


#8
Diethyl Ether
Concen: 101.352 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 74 Resp: 81474

Ion	Ratio	Lower	Upper
74	100		
45	87.5	50.0	149.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 138.880 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

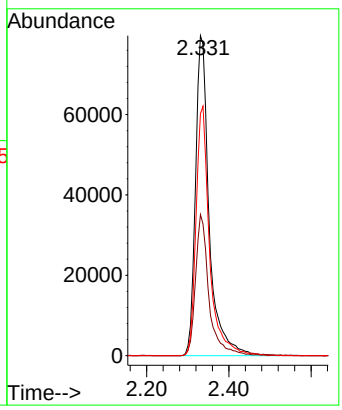
Tgt Ion:101 Resp: 18443

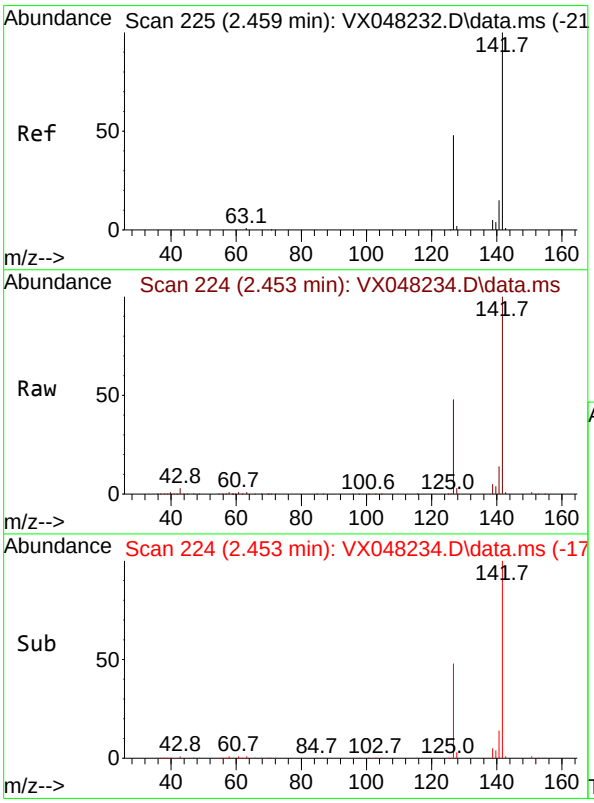
Ion	Ratio	Lower	Upper
101	100		
85	43.3	35.6	53.4
151	77.4	58.0	87.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

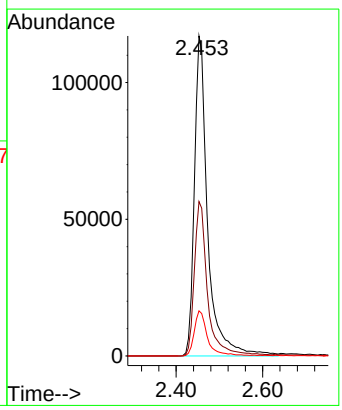


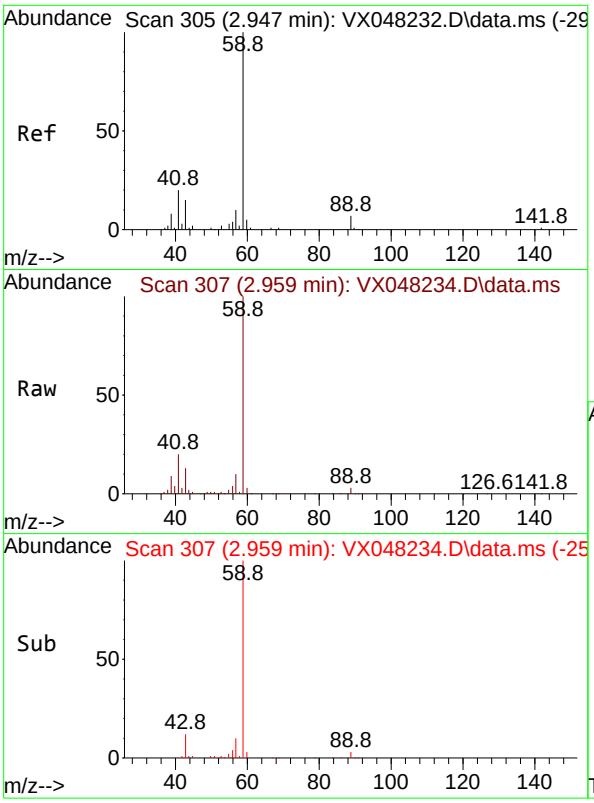


#10
Methyl Iodide
Concen: 156.785 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:142 Resp: 249395

Ion	Ratio	Lower	Upper
142	100		
127	48.2	38.5	57.7
141	14.0	11.6	17.4

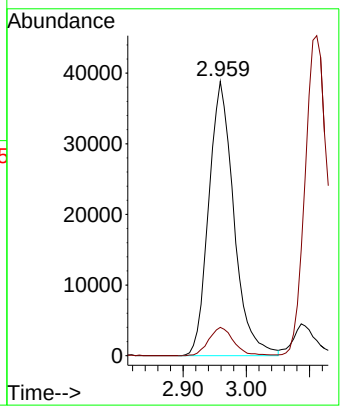




#11
Tert butyl alcohol
Concen: 931.439 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.018 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 59 Resp: 10729

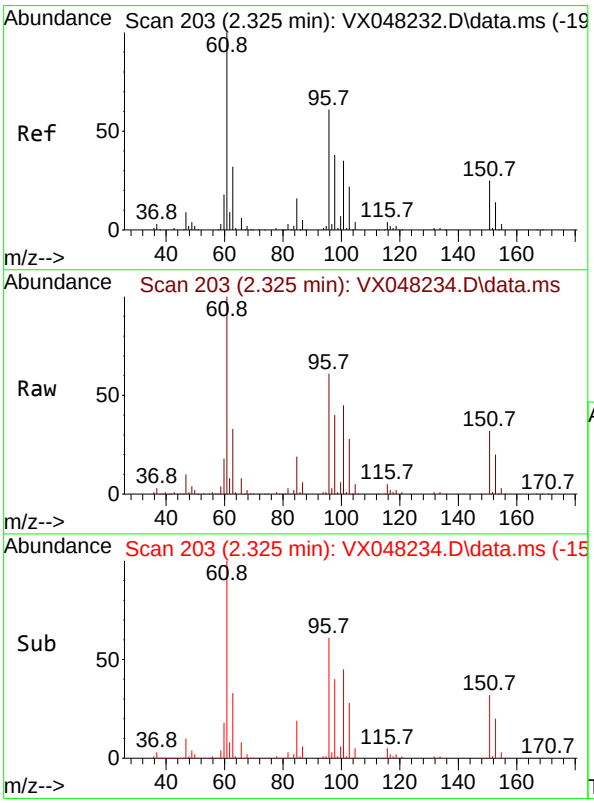
Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.2	12.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

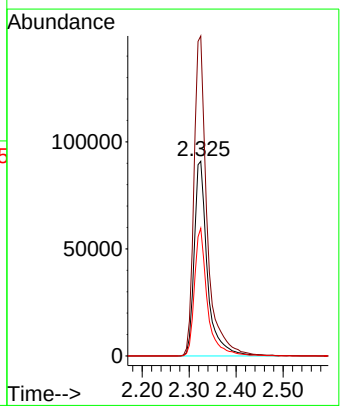
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

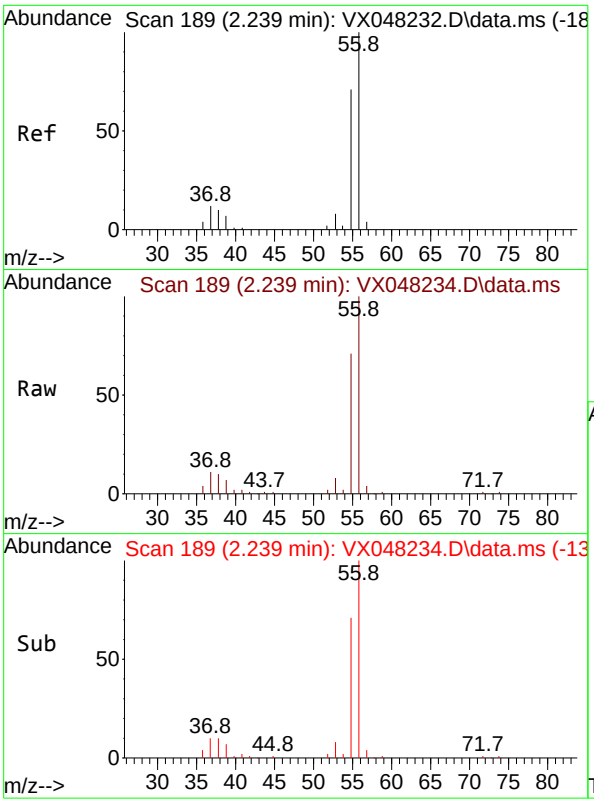


#12
1,1-Dichloroethene
Concen: 137.389 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 96 Resp: 178408

Ion	Ratio	Lower	Upper
96	100		
61	164.3	139.0	208.6
98	65.6	52.4	78.6

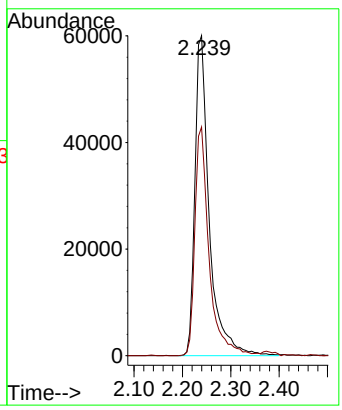




#13
Acrolein
Concen: 509.584 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 56 Resp: 12336

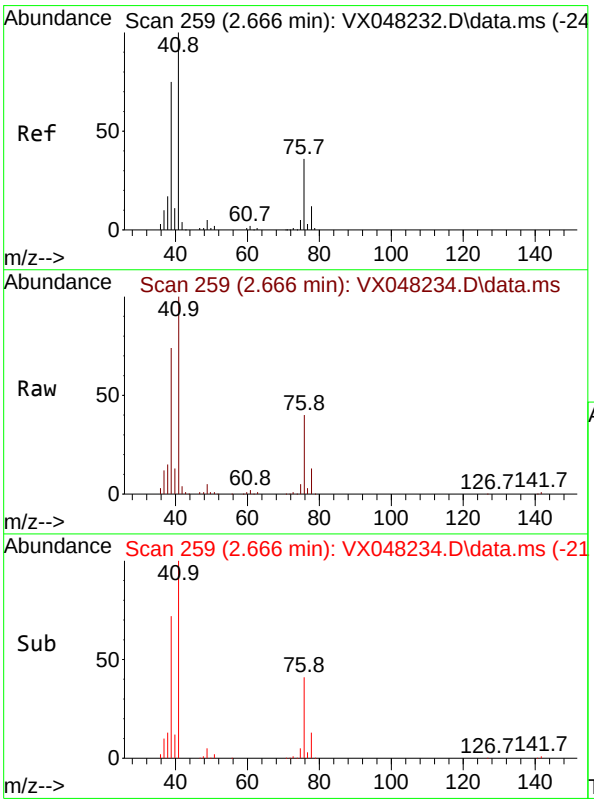
Ion	Ratio	Lower	Upper
56	100		
55	70.7	56.1	84.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

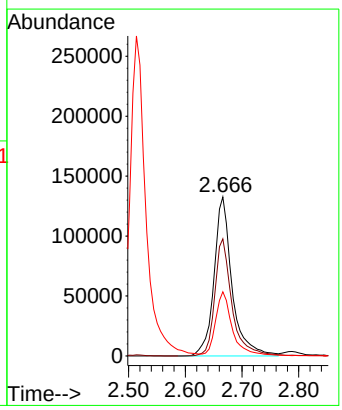
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

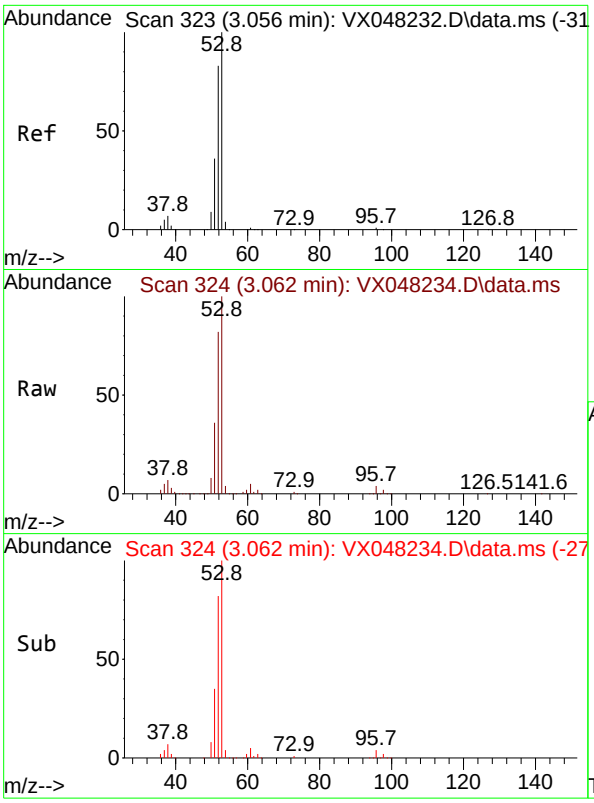


#14
Allyl chloride
Concen: 125.734 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 41 Resp: 293697

Ion	Ratio	Lower	Upper
41	100		
39	70.5	56.0	84.0
76	37.7	27.5	41.3

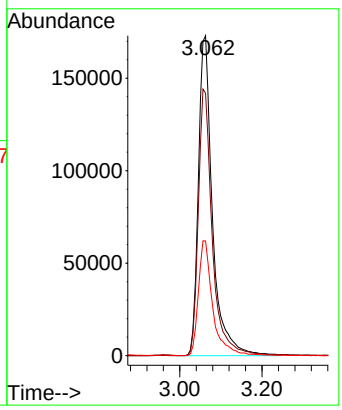




#15
Acrylonitrile
Concen: 748.019 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 53 Resp: 41289

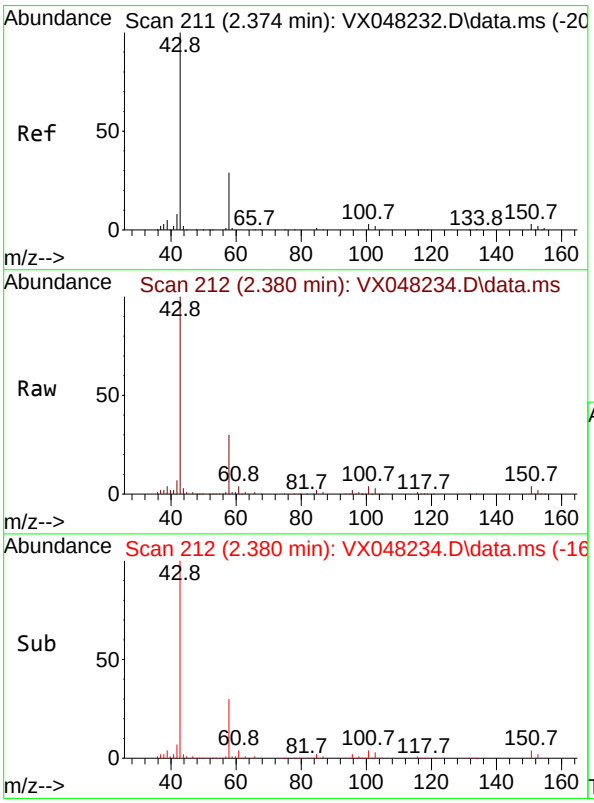
Ion	Ratio	Lower	Upper
53	100		
52	82.7	66.1	99.1
51	36.5	29.0	43.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

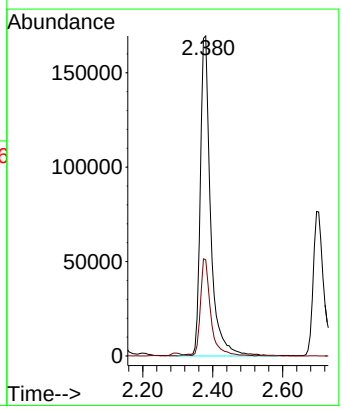
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

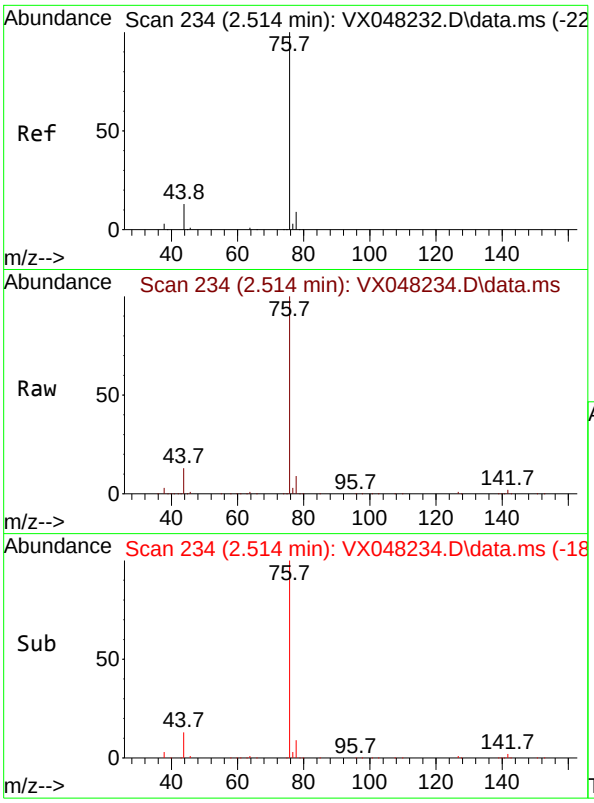


#16
Acetone
Concen: 585.970 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 43 Resp: 347029

Ion	Ratio	Lower	Upper
43	100		
58	30.0	23.4	35.2

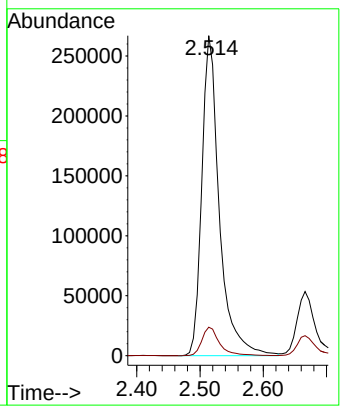




#17
Carbon Disulfide
Concen: 128.936 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 76 Resp: 51514

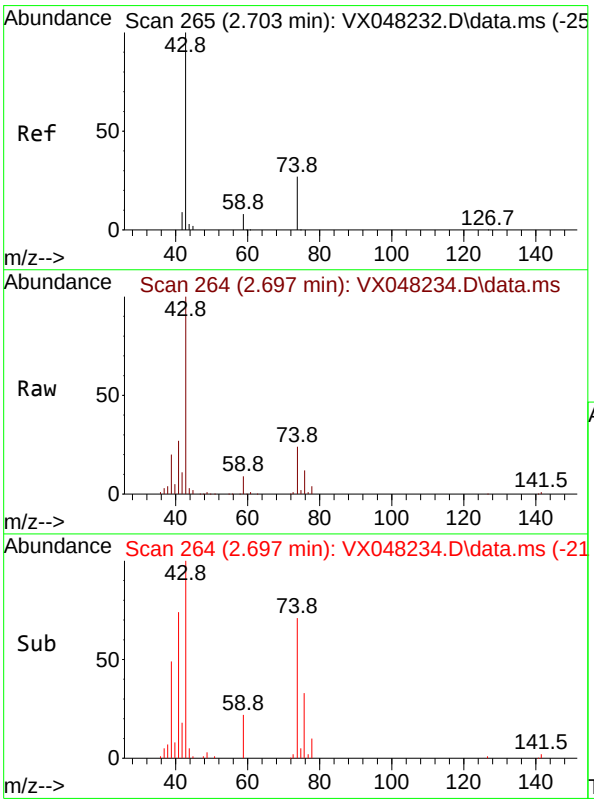
Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.1	10.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

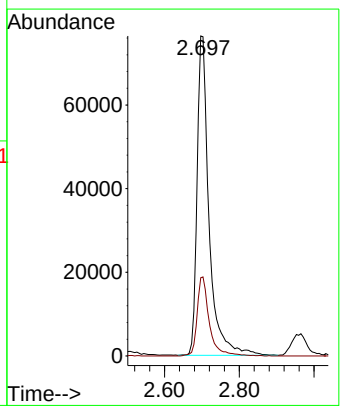
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

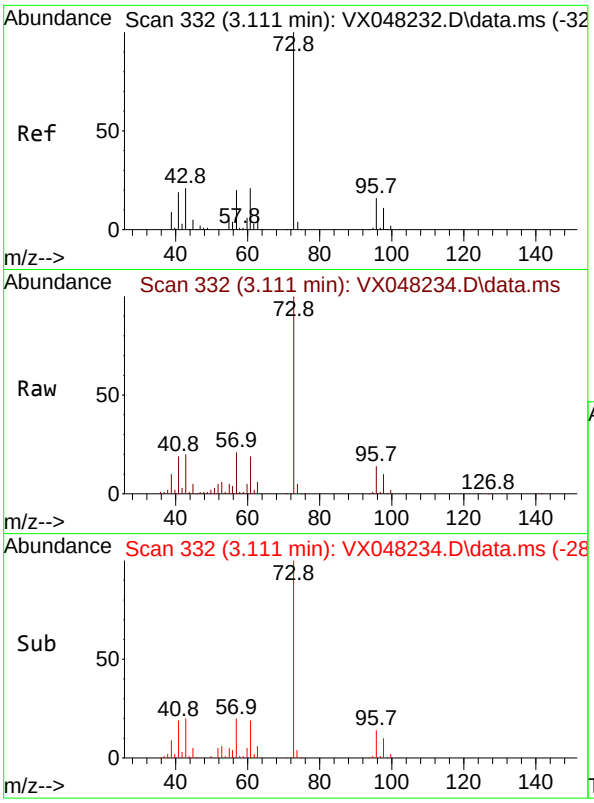


#18
Methyl Acetate
Concen: 140.438 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 43 Resp: 169402

Ion	Ratio	Lower	Upper
43	100		
74	25.2	17.5	26.3

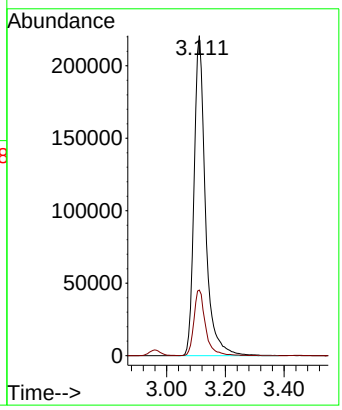




#19
Methyl tert-butyl Ether
Concen: 151.611 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 73 Resp: 59303

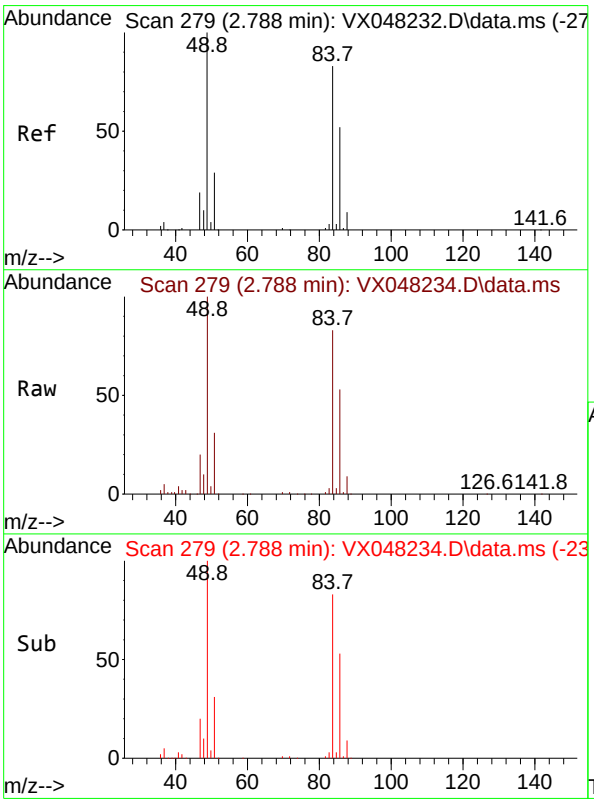
Ion	Ratio	Lower	Upper
73	100		
57	20.5	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

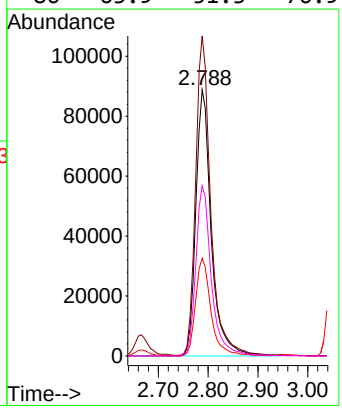
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

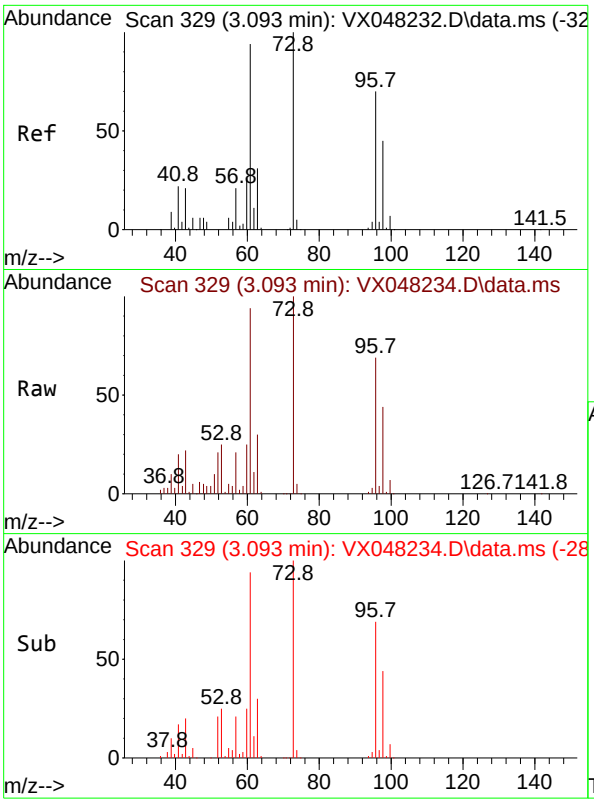


#20
Methylene Chloride
Concen: 132.030 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 84 Resp: 190483

Ion	Ratio	Lower	Upper
84	100		
49	120.0	104.1	156.1
51	36.7	31.3	46.9
86	63.9	51.3	76.9





#21
trans-1,2-Dichloroethene
Concen: 139.566 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

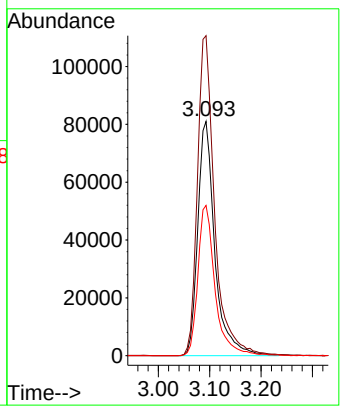
Tgt Ion: 96 Resp: 18749

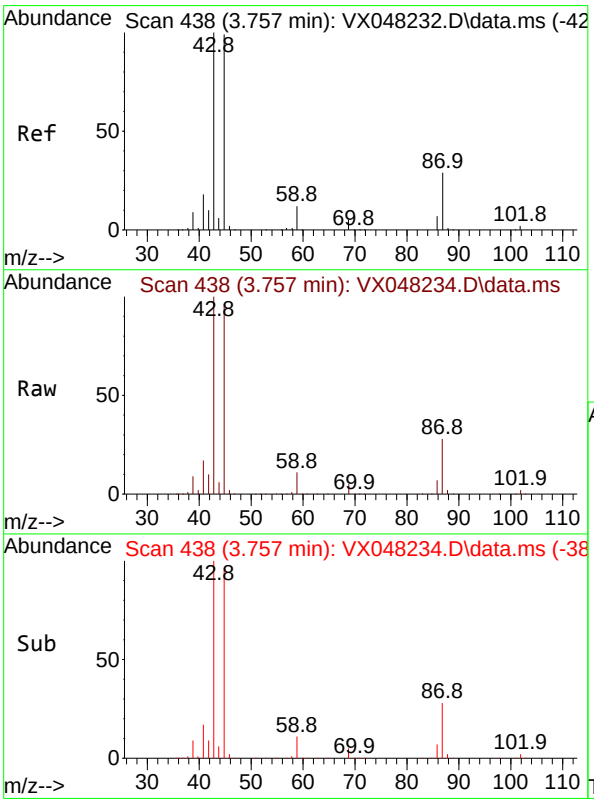
Ion	Ratio	Lower	Upper
96	100		
61	136.6	111.9	167.9
98	64.1	51.2	76.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

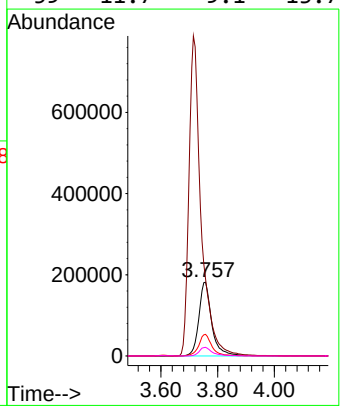


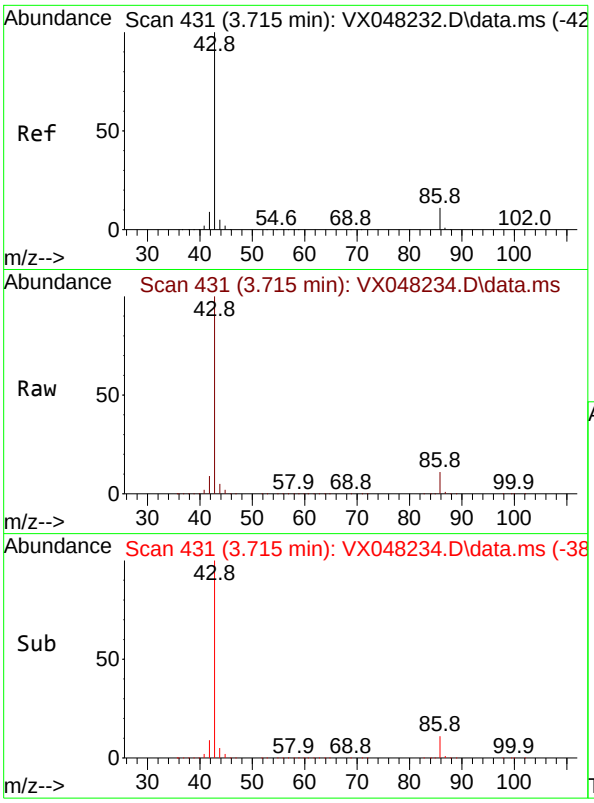


#22
Diisopropyl ether
Concen: 125.048 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 45 Resp: 571951

Ion	Ratio	Lower	Upper
45	100		
43	104.2	89.8	134.8
87	29.4	20.6	31.0
59	11.7	9.1	13.7





#23
Vinyl Acetate
Concen: 692.251 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

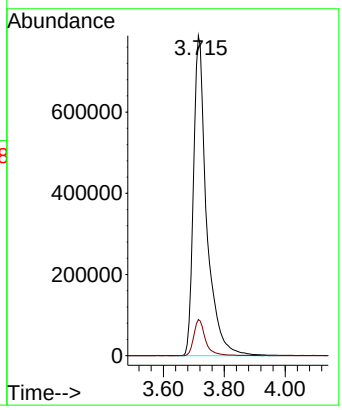
Tgt Ion: 43 Resp: 236751

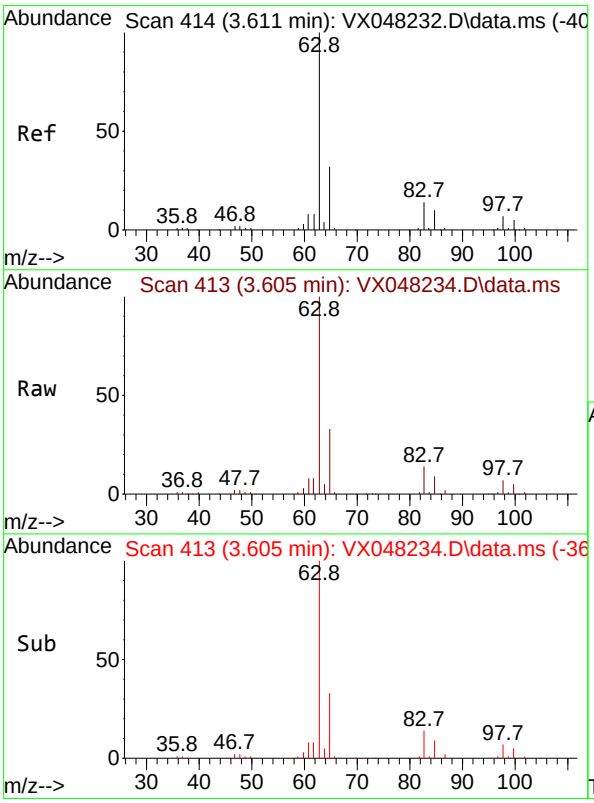
Ion	Ratio	Lower	Upper
43	100		
86	11.3	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

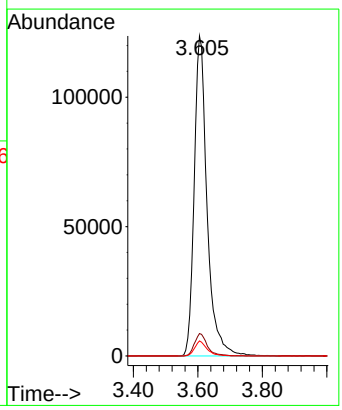


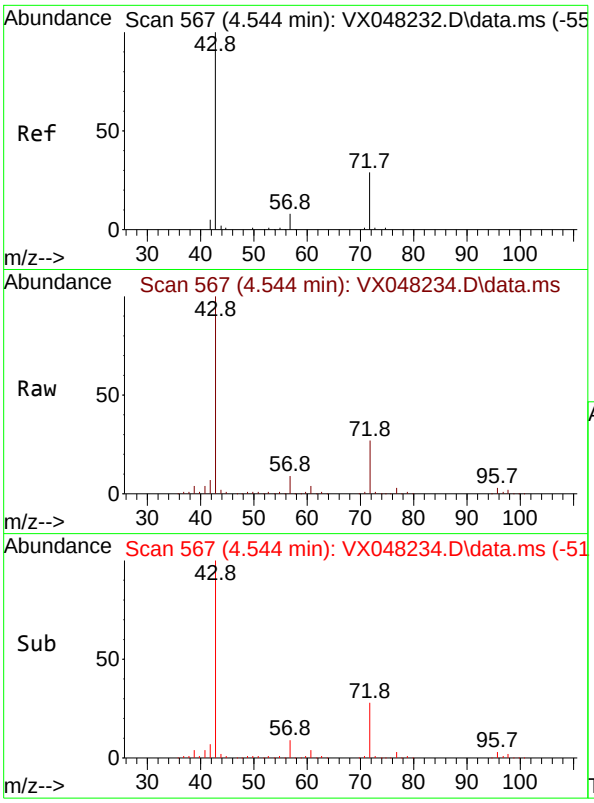


#24
1,1-Dichloroethane
Concen: 131.992 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 63 Resp: 342500

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.6
100	4.7	2.1	6.3





#25
2-Butanone
Concen: 706.046 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

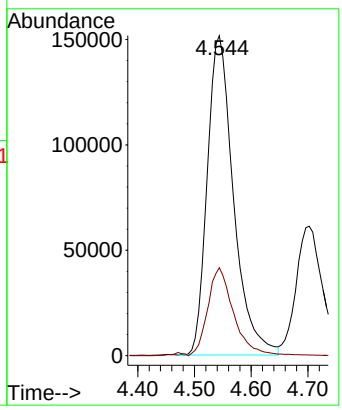
Tgt Ion: 43 Resp: 48715

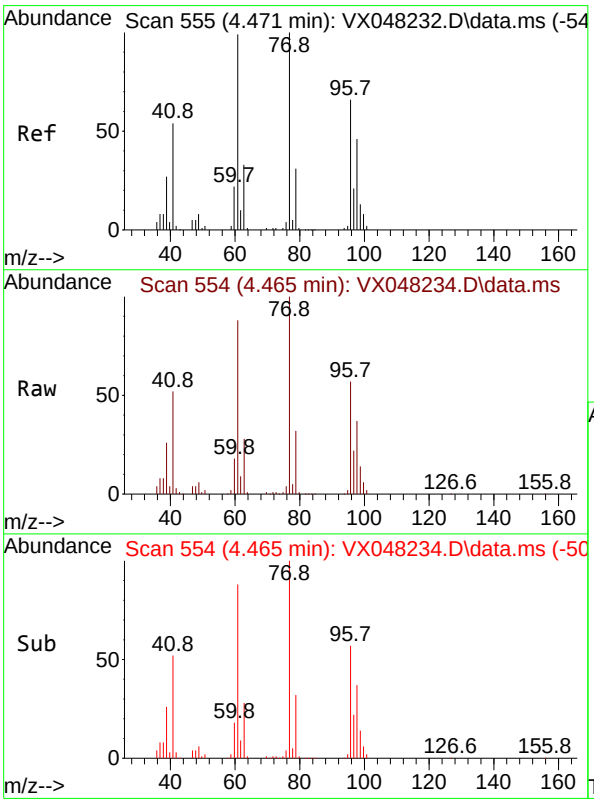
Ion	Ratio	Lower	Upper
43	100		
72	27.0	19.9	29.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

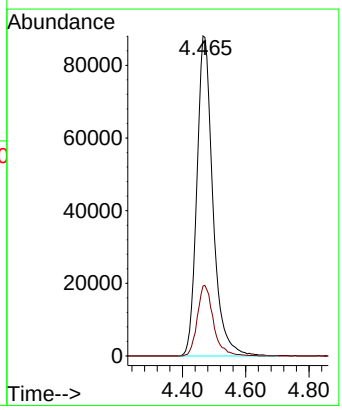


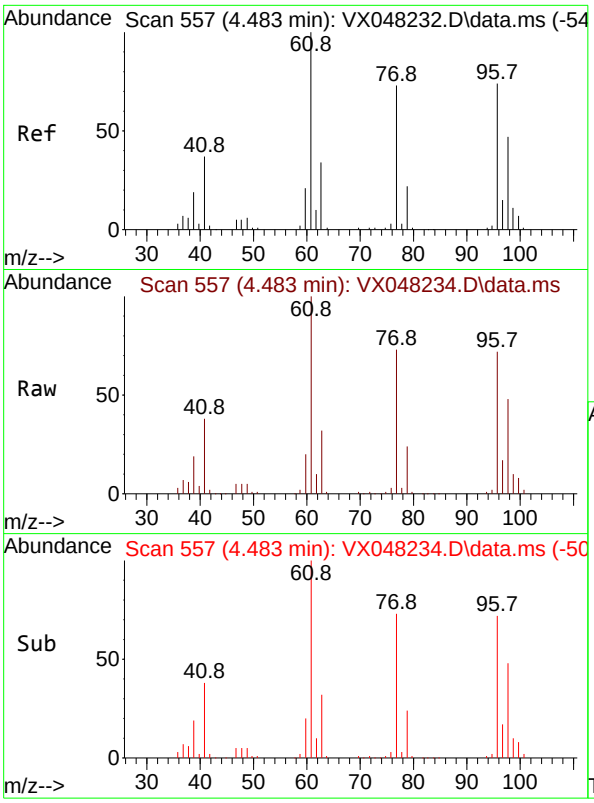


#26
2,2-Dichloropropane
Concen: 140.027 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 77 Resp: 310572

Ion	Ratio	Lower	Upper
77	100		
97	22.2	11.1	33.3





#27
cis-1,2-Dichloroethene
Concen: 139.465 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

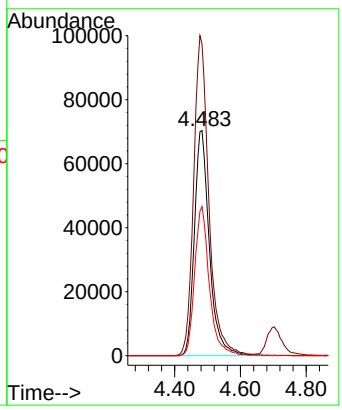
Tgt Ion: 96 Resp: 22235

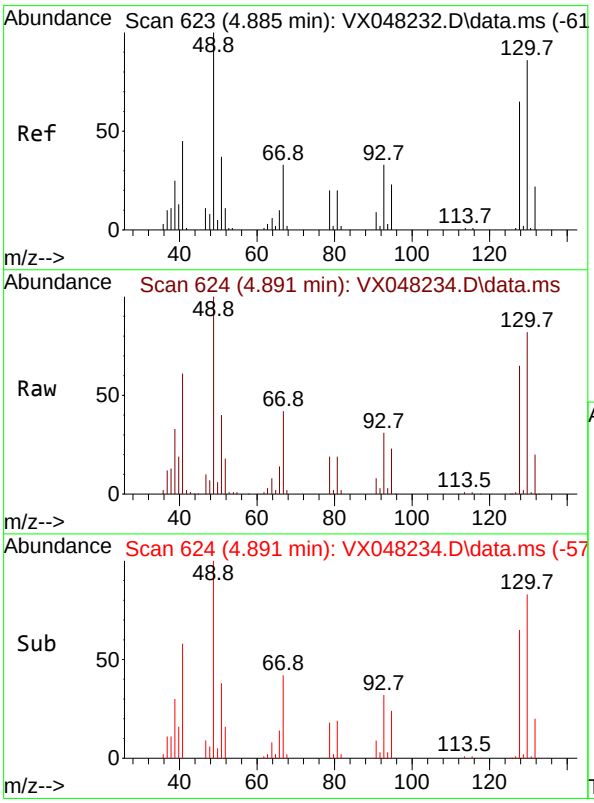
Ion	Ratio	Lower	Upper
96	100		
61	144.4	0.0	294.2
98	65.1	0.0	128.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

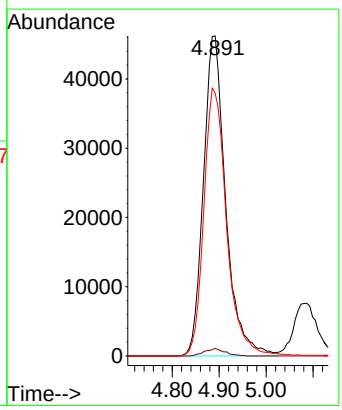


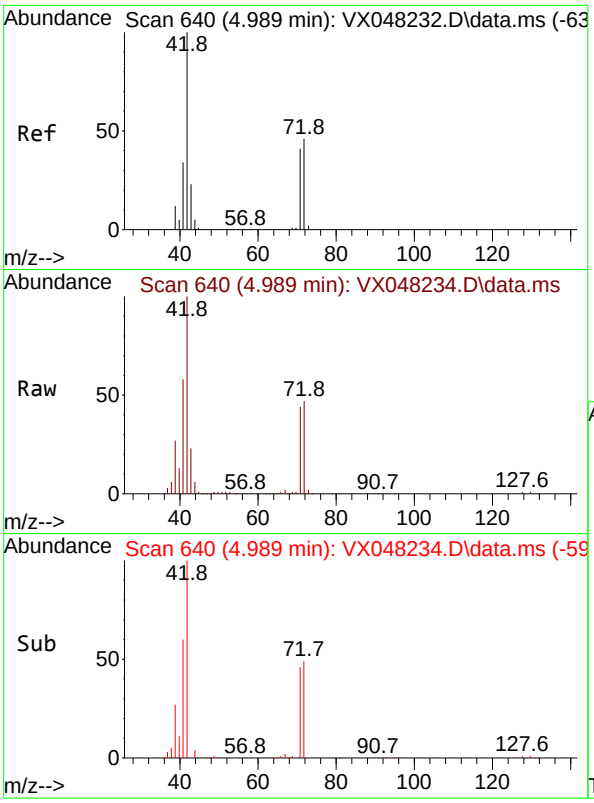


#28
Bromochloromethane
Concen: 126.922 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 49 Resp: 151812

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.4
130	85.6	59.3	88.9

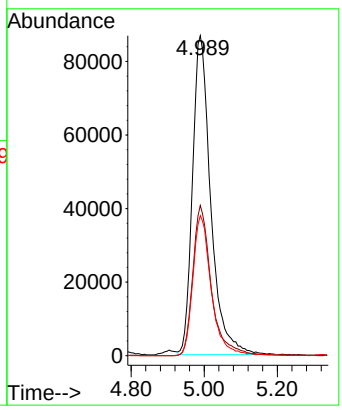




#29
Tetrahydrofuran
Concen: 744.697 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 42 Resp: 30174

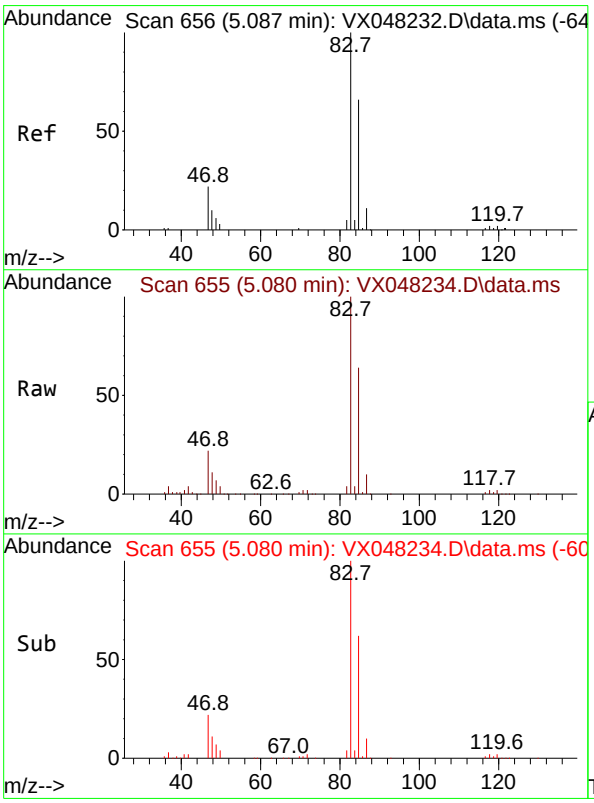
Ion	Ratio	Lower	Upper
42	100		
72	47.8	35.3	52.9
71	44.1	32.2	48.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

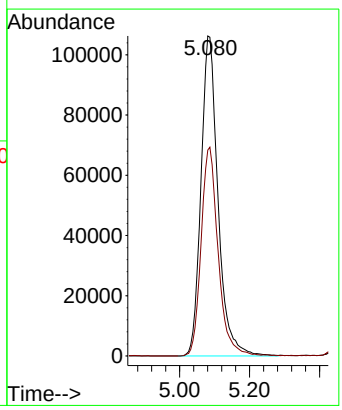
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

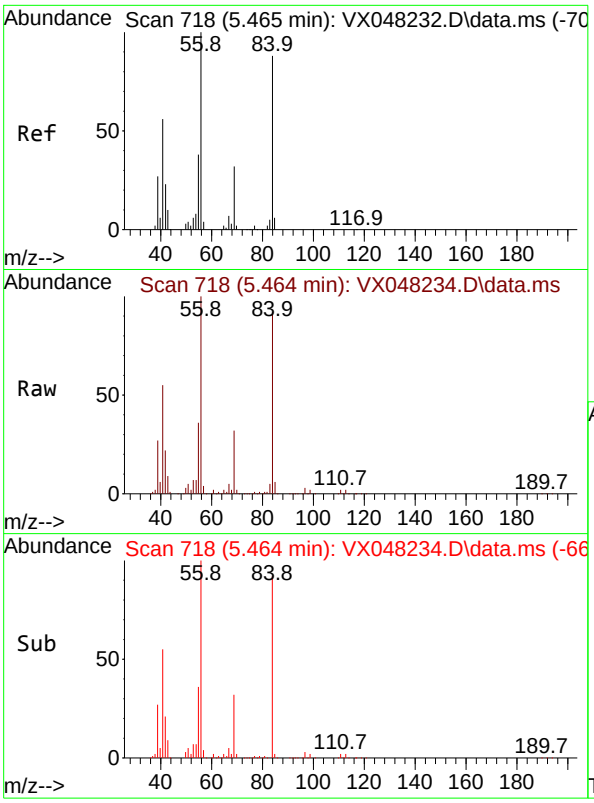


#30
Chloroform
Concen: 131.272 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 83 Resp: 358626

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.1	75.1

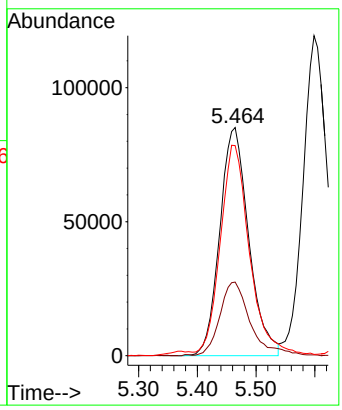




#31
Cyclohexane
Concen: 137.199 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 56 Resp: 29130

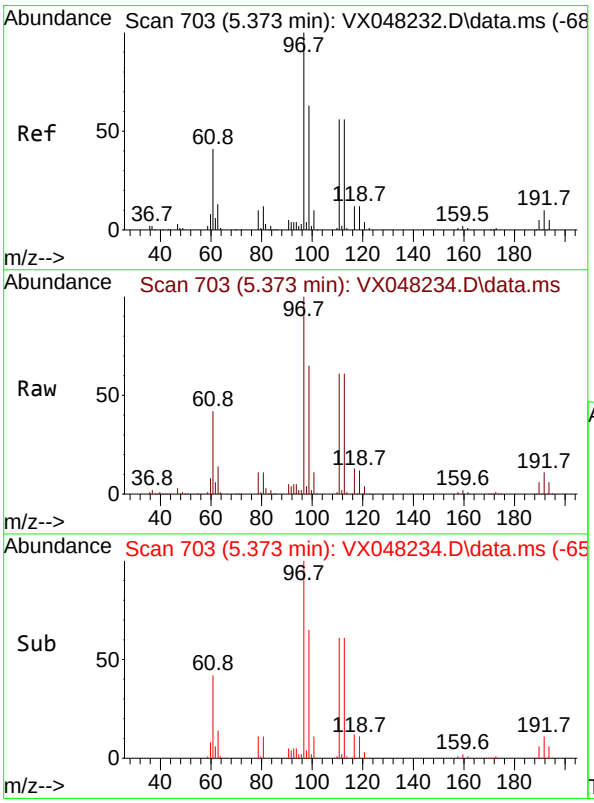
Ion	Ratio	Lower	Upper
56	100		
69	32.3	23.0	34.6
84	90.1	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

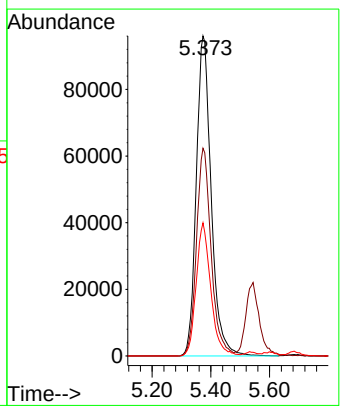
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

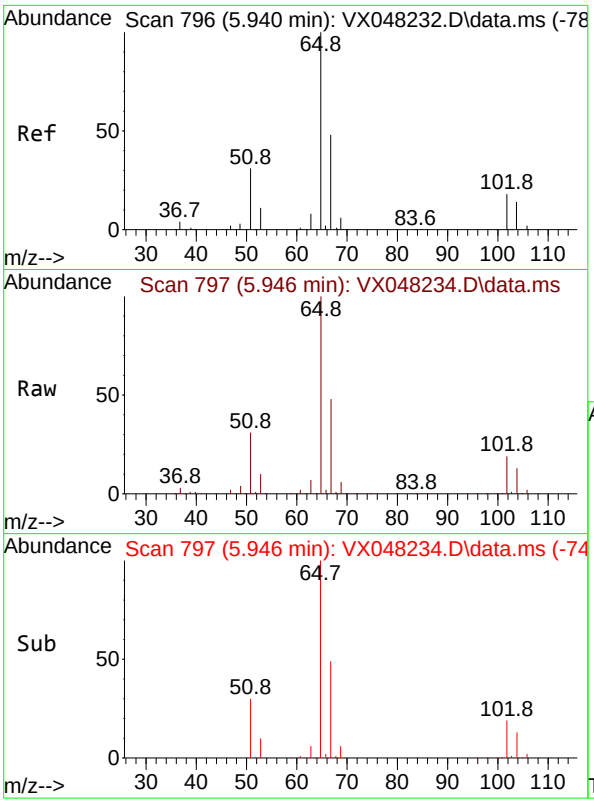


#32
1,1,1-Trichloroethane
Concen: 150.785 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 97 Resp: 338462

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.7	77.5
61	40.8	34.8	52.2

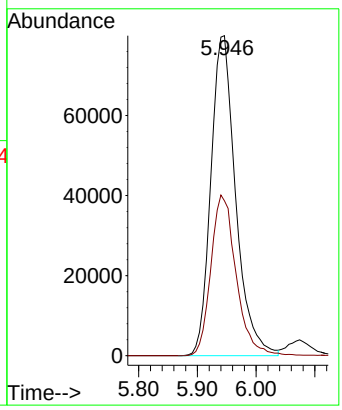




#33
1,2-Dichloroethane-d4
Concen: 135.251 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 65 Resp: 23480

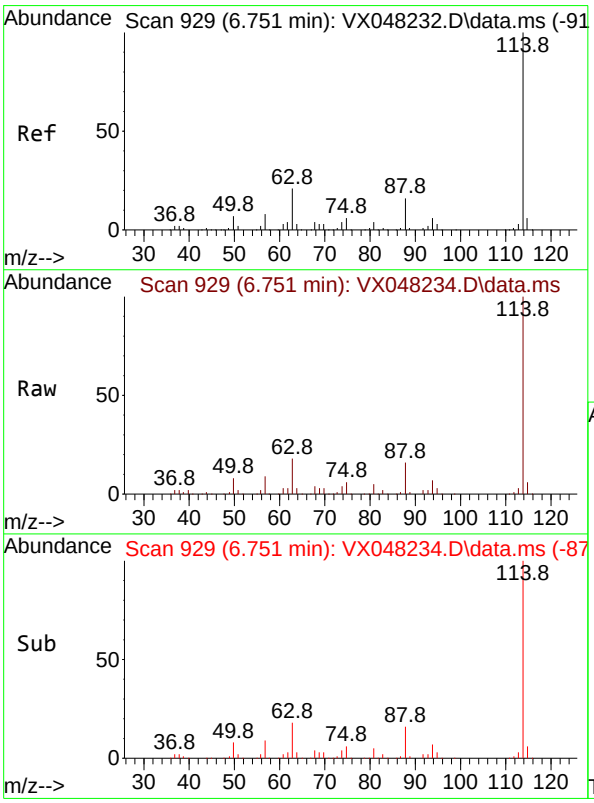
Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	105.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

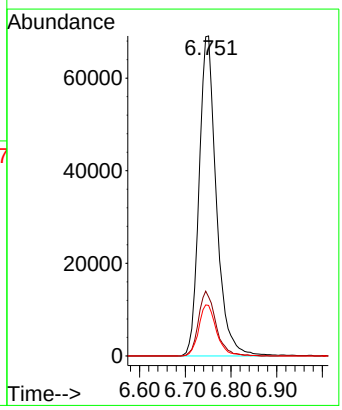
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

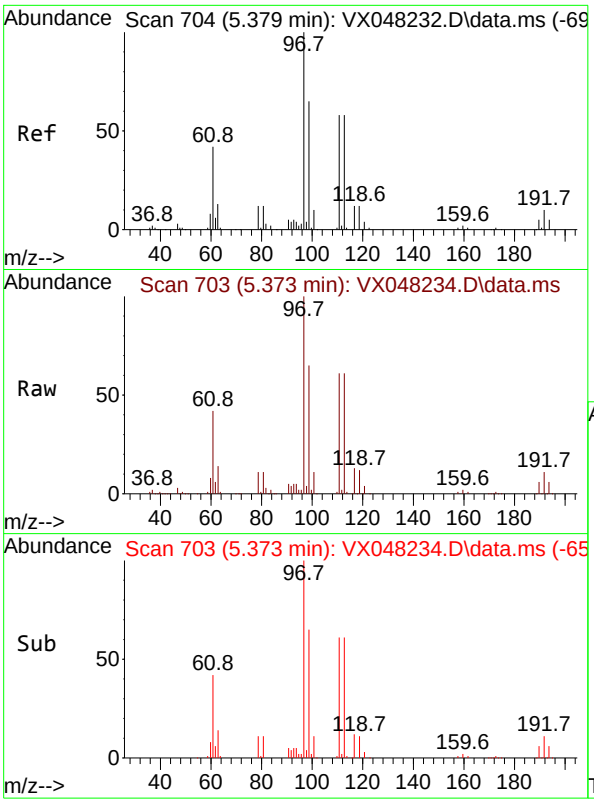


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:114 Resp: 180904

Ion	Ratio	Lower	Upper
114	100		
63	18.4	0.0	43.2
88	15.8	0.0	33.6

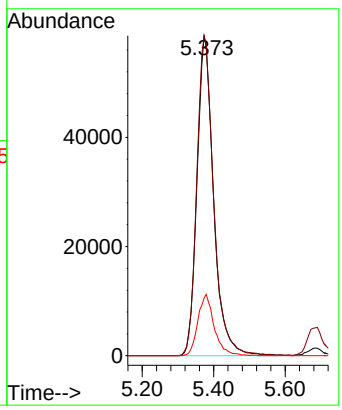




#35
Dibromofluoromethane
Concen: 150.393 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:113 Resp: 18882

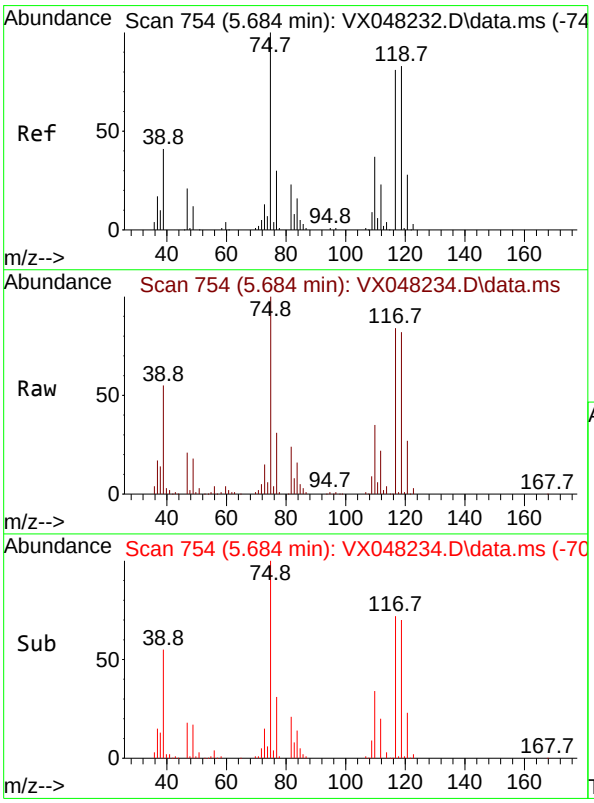
Ion	Ratio	Lower	Upper
113	100		
111	101.5	82.2	123.4
192	18.8	15.1	22.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

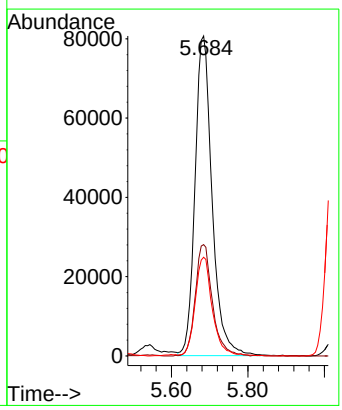
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

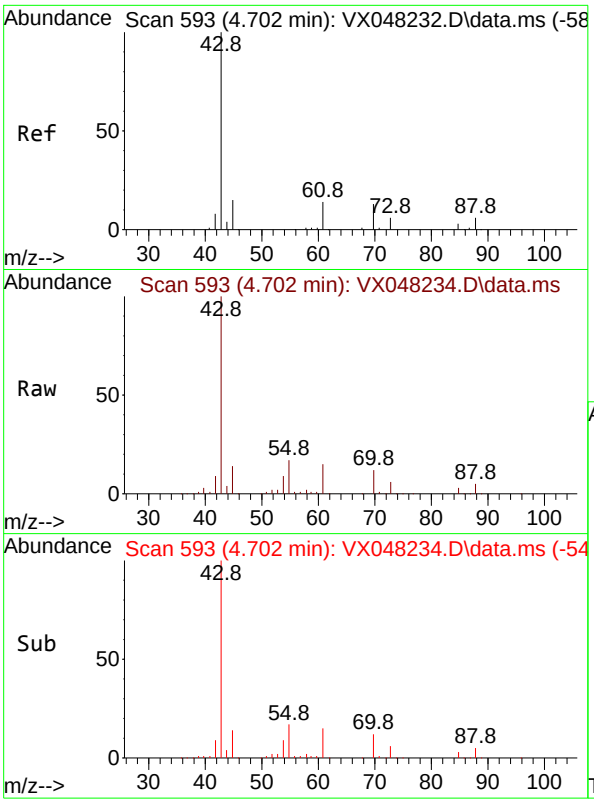


#36
1,1-Dichloropropene
Concen: 141.173 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 75 Resp: 249688

Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.7	53.1
77	31.2	24.3	36.5

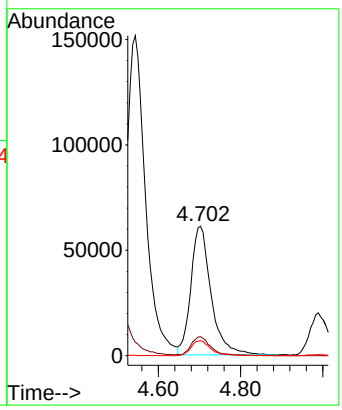




#37
Ethyl Acetate
Concen: 147.588 ug/l
RT: 4.702 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 43 Resp: 20861

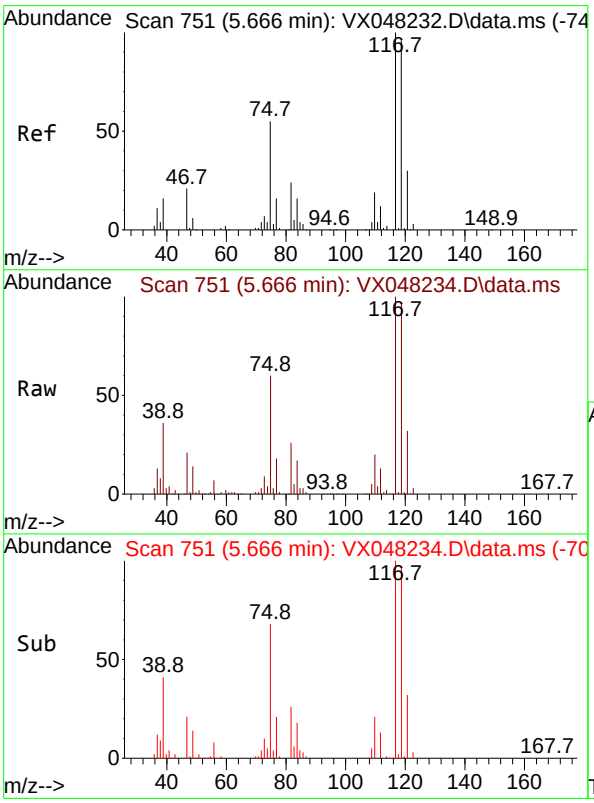
Ion	Ratio	Lower	Upper
43	100		
61	14.1	10.6	15.8
70	11.2	7.8	11.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

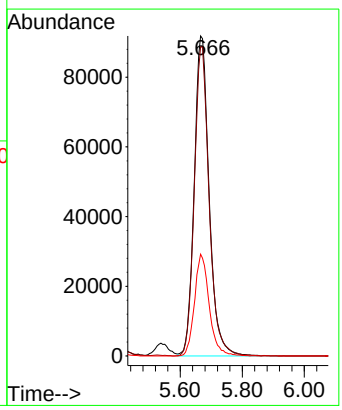
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

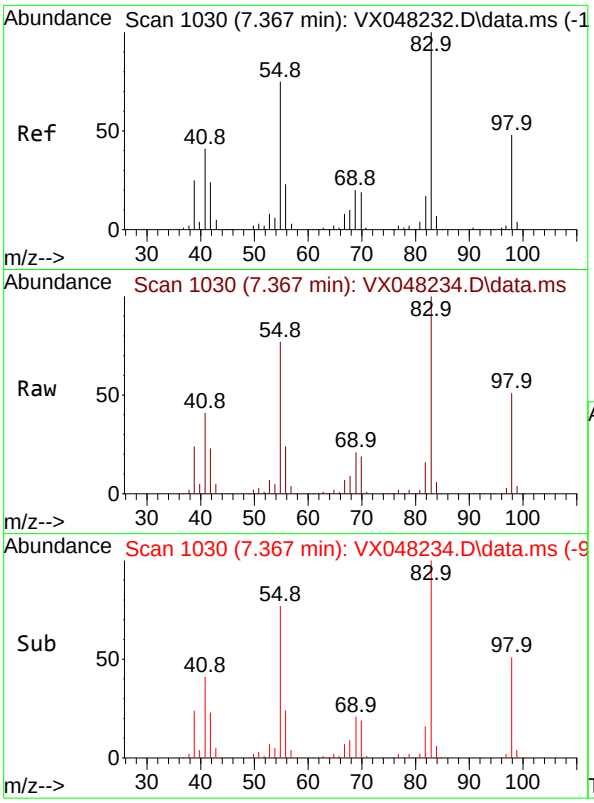


#38
Carbon Tetrachloride
Concen: 151.663 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:117 Resp: 307892

Ion	Ratio	Lower	Upper
117	100		
119	96.6	77.2	115.8
121	31.8	24.8	37.2

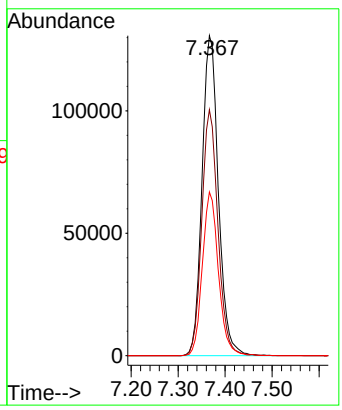




#39
Methylcyclohexane
Concen: 158.416 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 83 Resp: 31591

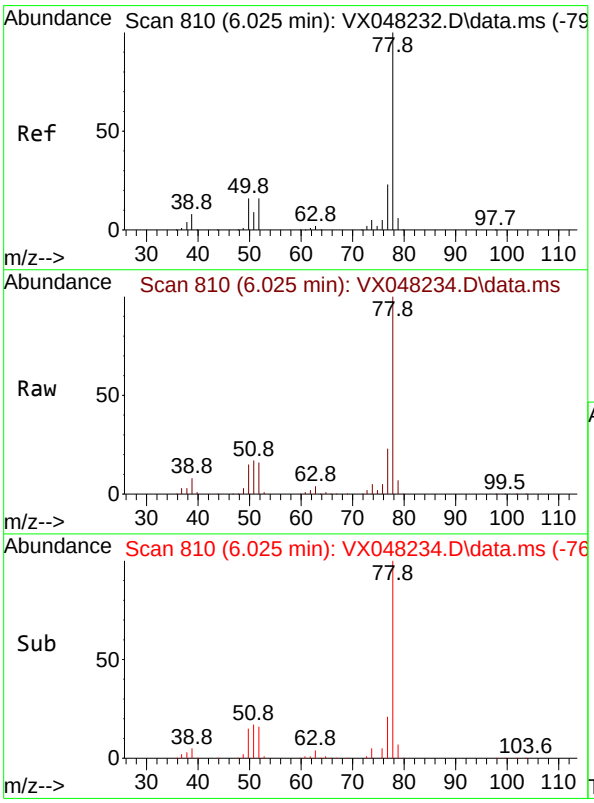
Ion	Ratio	Lower	Upper
83	100		
55	76.9	66.2	99.2
98	51.1	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

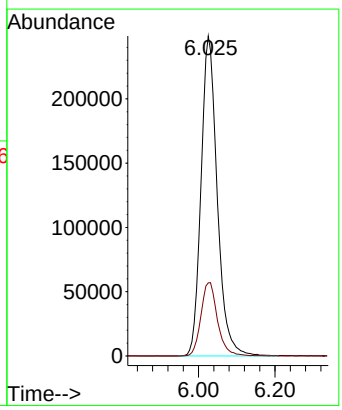
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

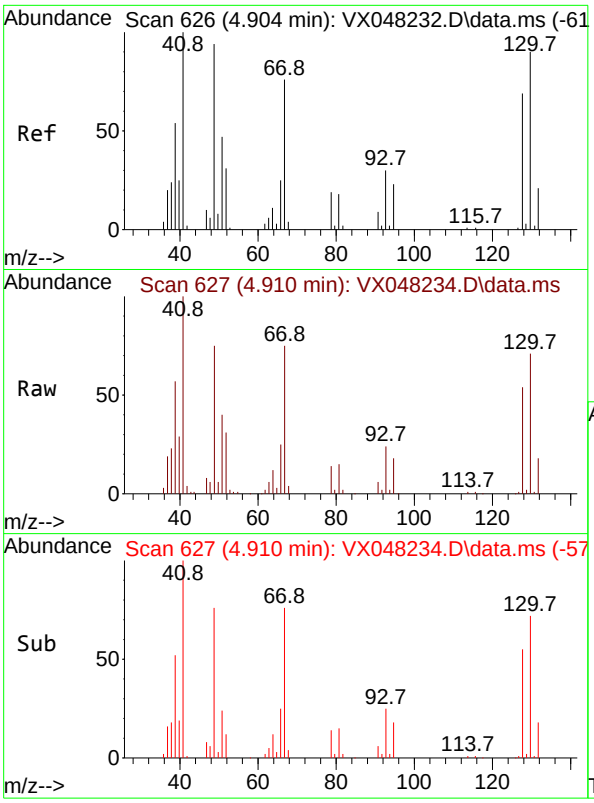


#40
Benzene
Concen: 139.172 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 78 Resp: 730908

Ion	Ratio	Lower	Upper
78	100		
77	22.8	19.3	28.9

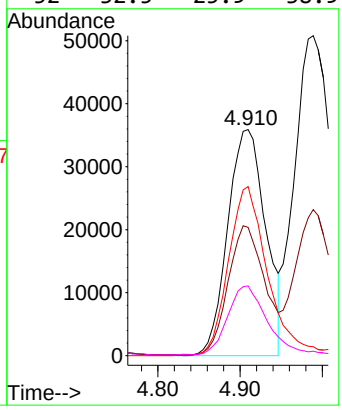




#41
Methacrylonitrile
Concen: 152.378 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 41 Resp: 11535

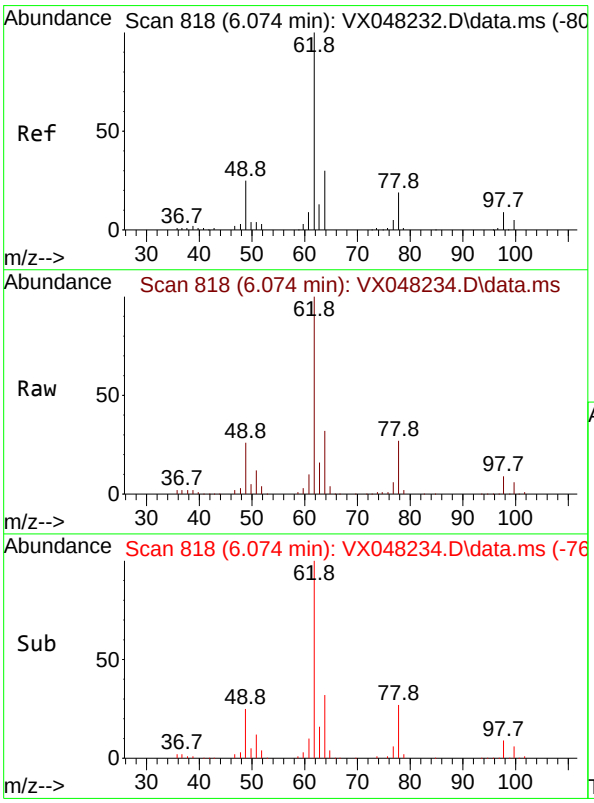
Ion	Ratio	Lower	Upper
41	100		
39	55.0	44.0	66.0
67	78.1	58.7	88.1
52	32.5	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

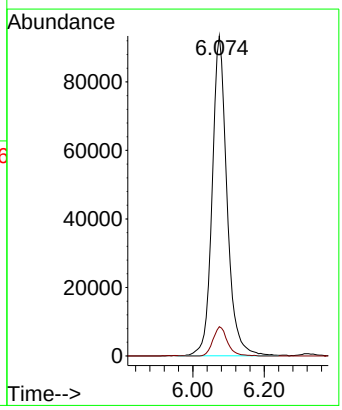
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

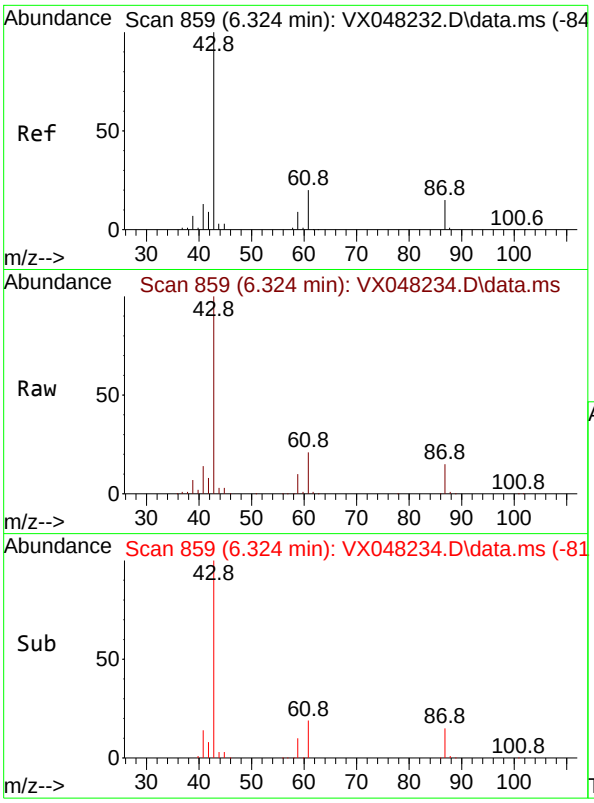


#42
1,2-Dichloroethane
Concen: 143.093 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 62 Resp: 269245

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	17.2





#43
Isopropyl Acetate
Concen: 152.180 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

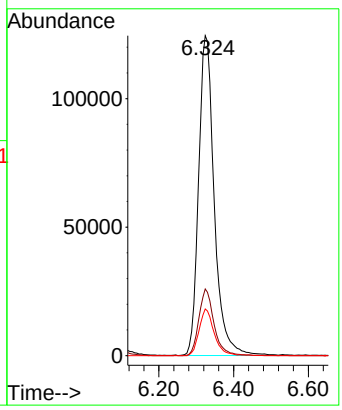
Tgt Ion: 43 Resp: 36108

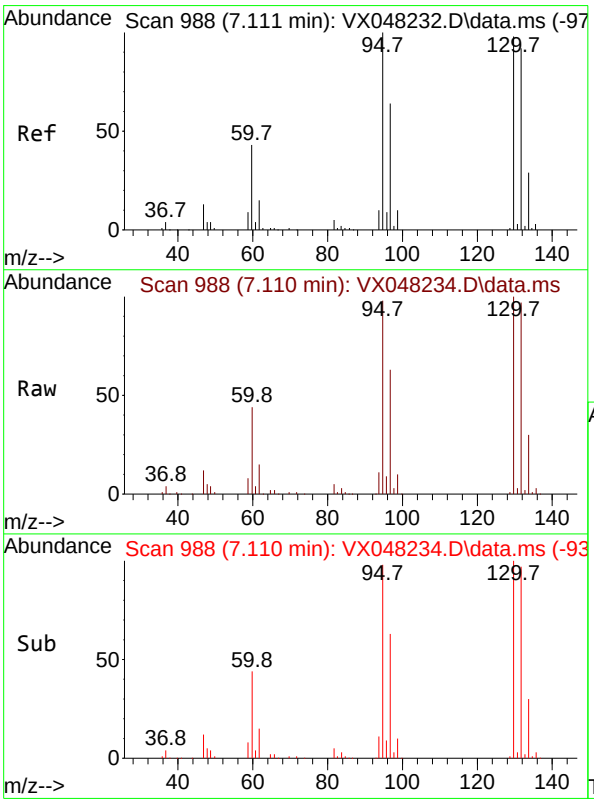
Ion	Ratio	Lower	Upper
43	100		
61	20.2	14.9	22.3
87	14.0	9.4	14.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

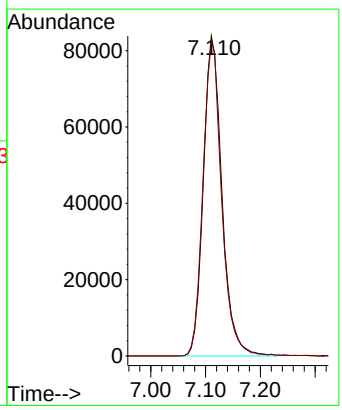


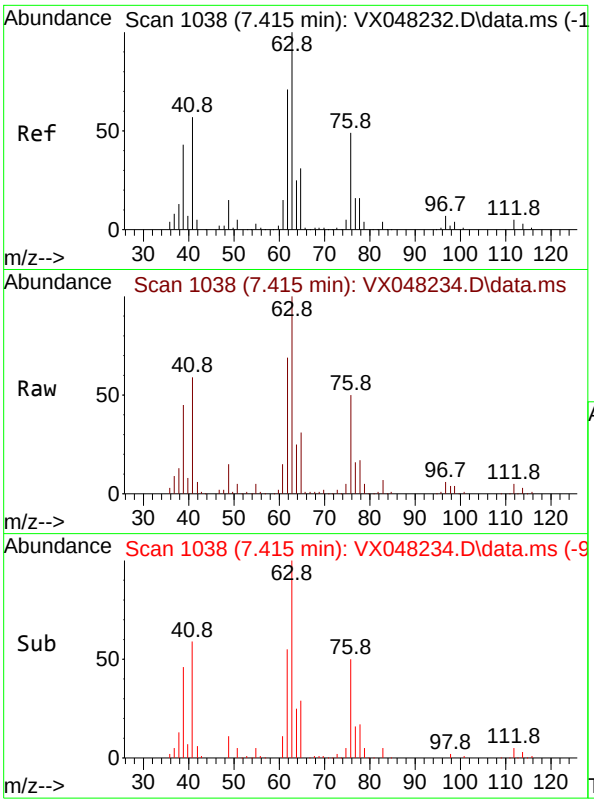


#44
Trichloroethene
Concen: 149.022 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:130 Resp: 197244

Ion	Ratio	Lower	Upper
130	100		
95	98.5	0.0	200.6





#45
1,2-Dichloropropane
Concen: 135.890 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

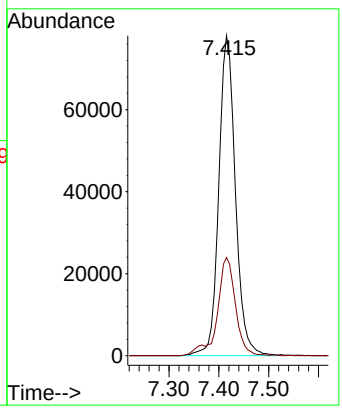
Tgt Ion: 63 Resp: 18061

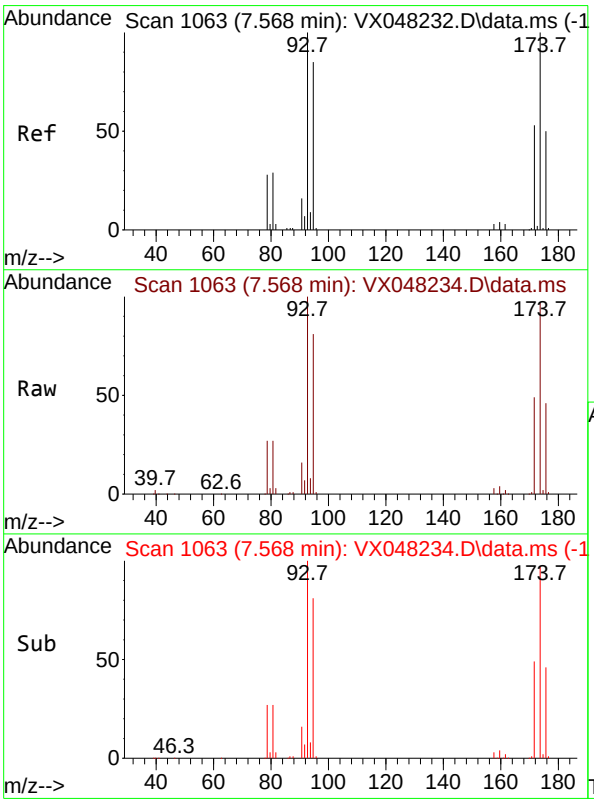
Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.1	36.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

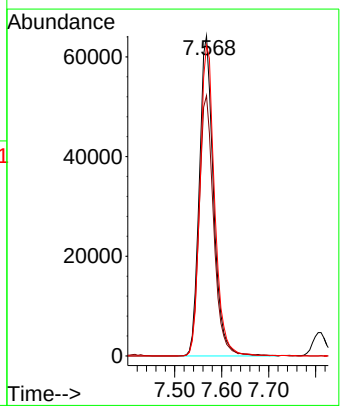


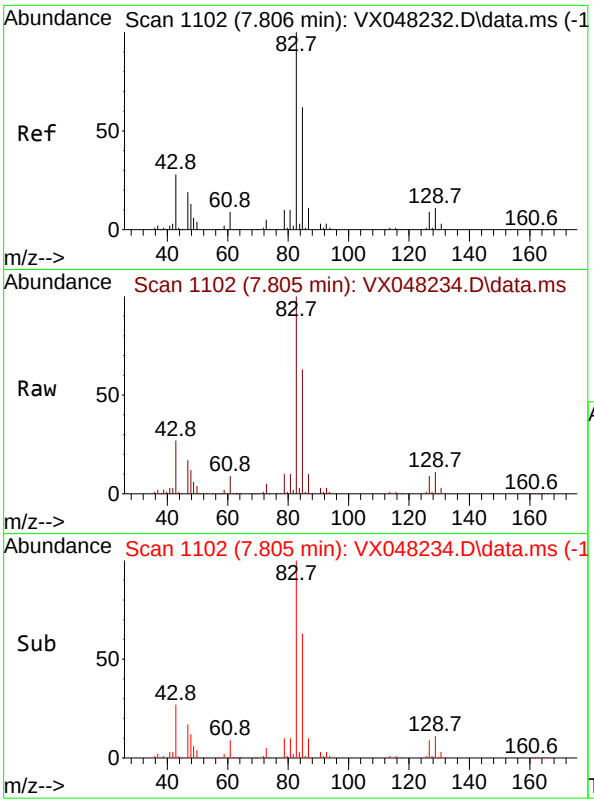


#46
Dibromomethane
Concen: 141.273 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 93 Resp: 135105

Ion	Ratio	Lower	Upper
93	100		
95	82.9	65.9	98.9
174	99.5	71.7	107.5

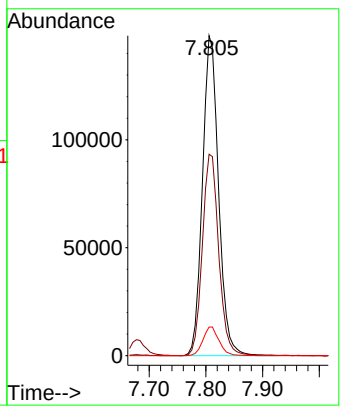




#47
Bromodichloromethane
Concen: 141.302 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 83 Resp: 29206

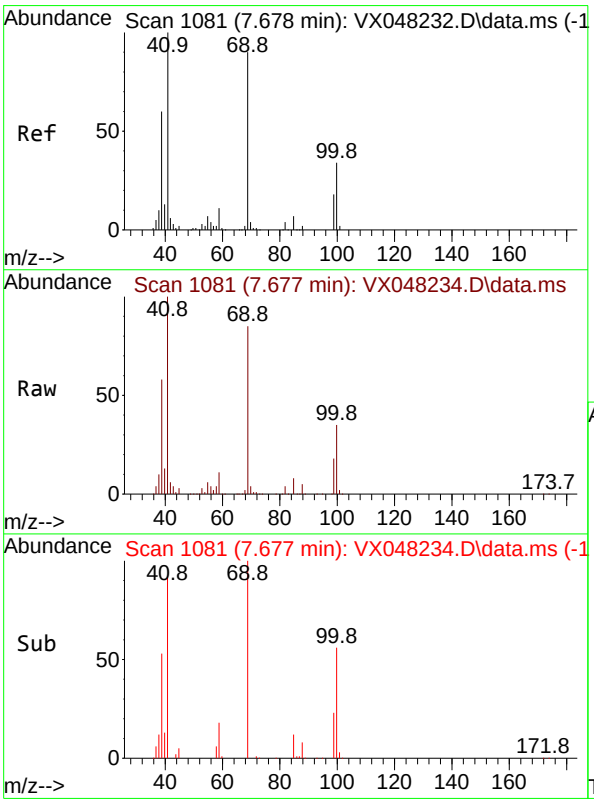
Ion	Ratio	Lower	Upper
83	100		
85	62.9	52.2	78.4
127	8.9	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

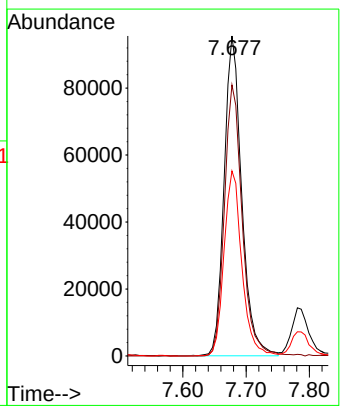
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

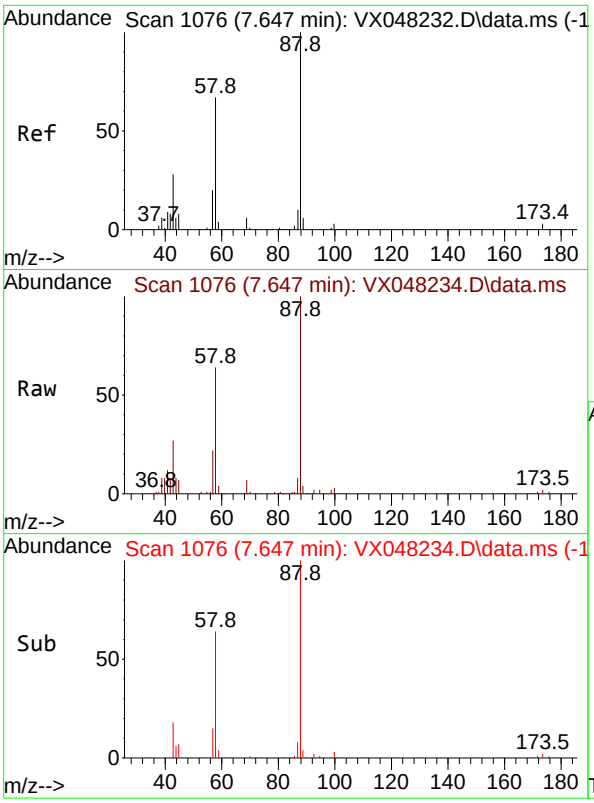


#48
Methyl methacrylate
Concen: 151.780 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 41 Resp: 184354

Ion	Ratio	Lower	Upper
41	100		
69	86.0	63.4	95.0
39	58.5	47.1	70.7

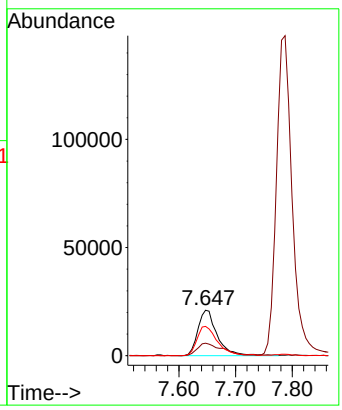




#49
1,4-Dioxane
Concen: 4563.512 ug/l
RT: 7.647 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 88 Resp: 4989

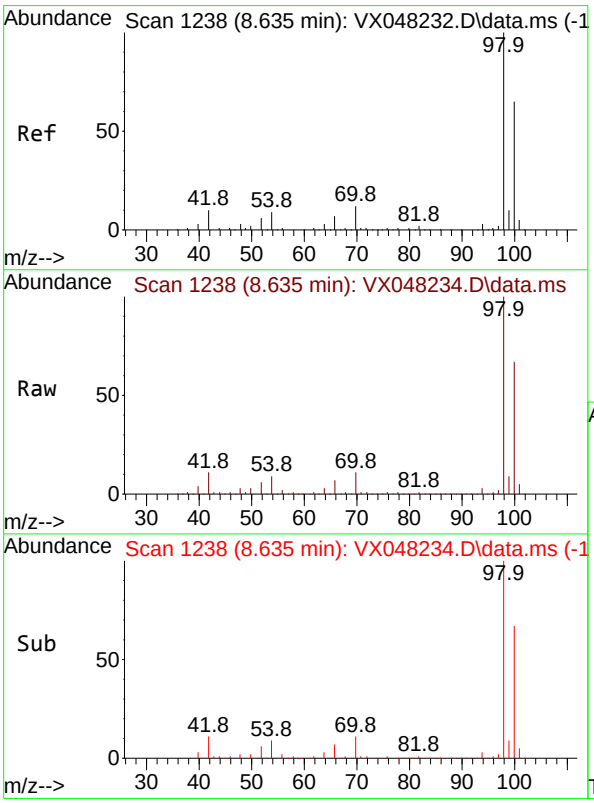
Ion	Ratio	Lower	Upper
88	100		
43	35.6	35.0	52.4
58	67.7	61.9	92.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

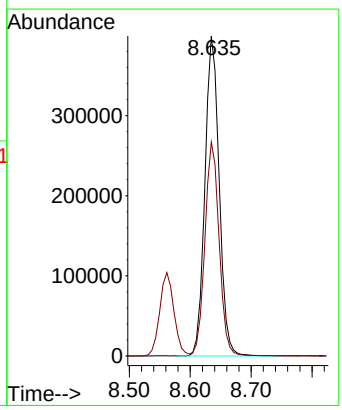
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

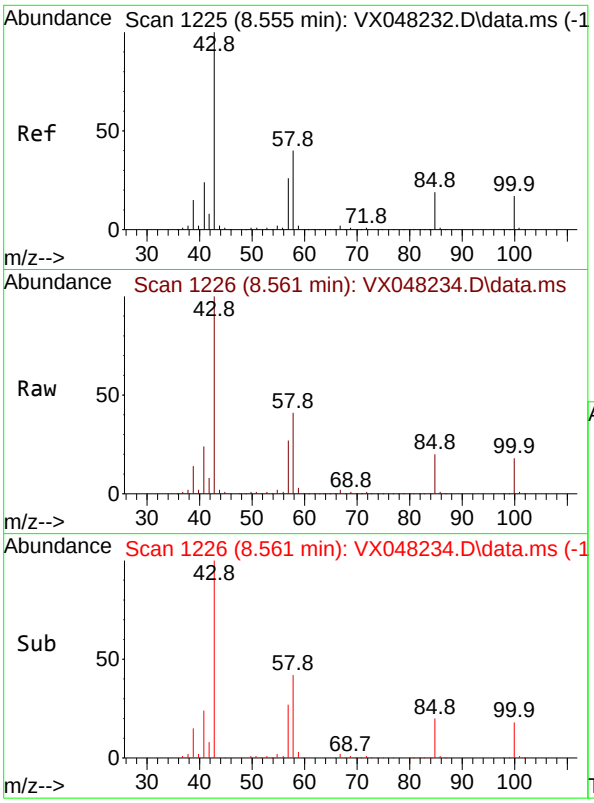


#50
Toluene-d8
Concen: 143.408 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 98 Resp: 648652

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.0	79.4





#51
4-Methyl-2-Pentanone
Concen: 744.604 ug/l
RT: 8.561 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

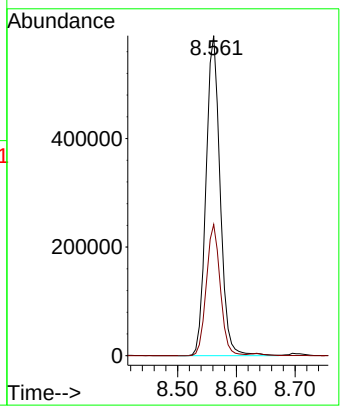
Tgt Ion: 43 Resp: 98312

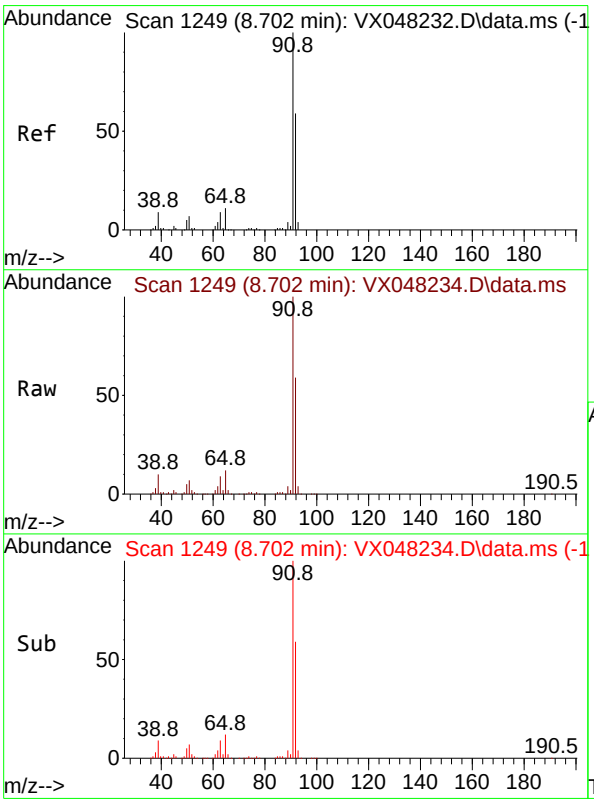
Ion	Ratio	Lower	Upper
43	100		
58	40.4	29.5	44.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

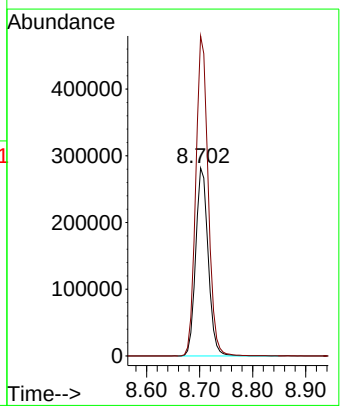


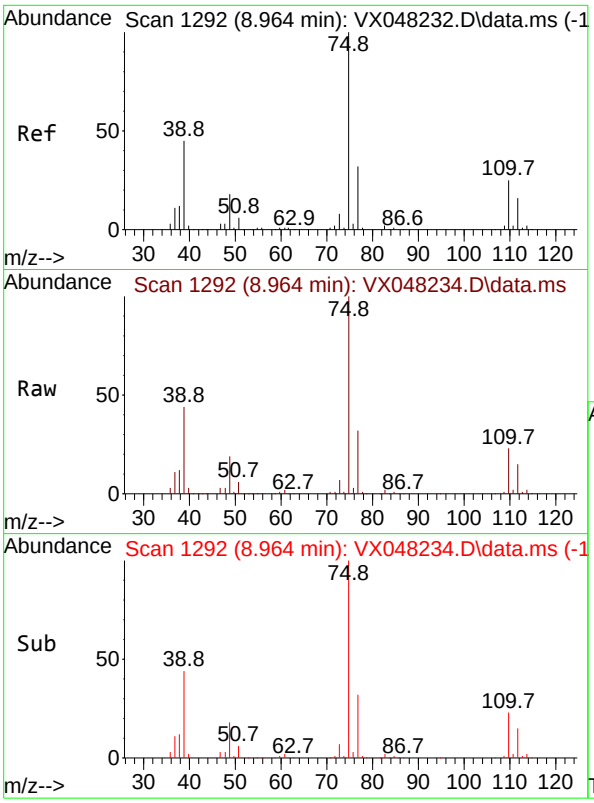


#52
Toluene
Concen: 145.964 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 92 Resp: 460742

Ion	Ratio	Lower	Upper
92	100		
91	169.1	136.1	204.1

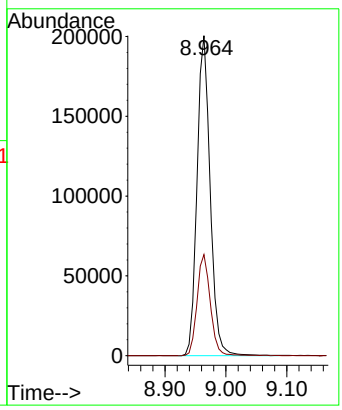




#53
t-1,3-Dichloropropene
Concen: 155.059 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 75 Resp: 30025

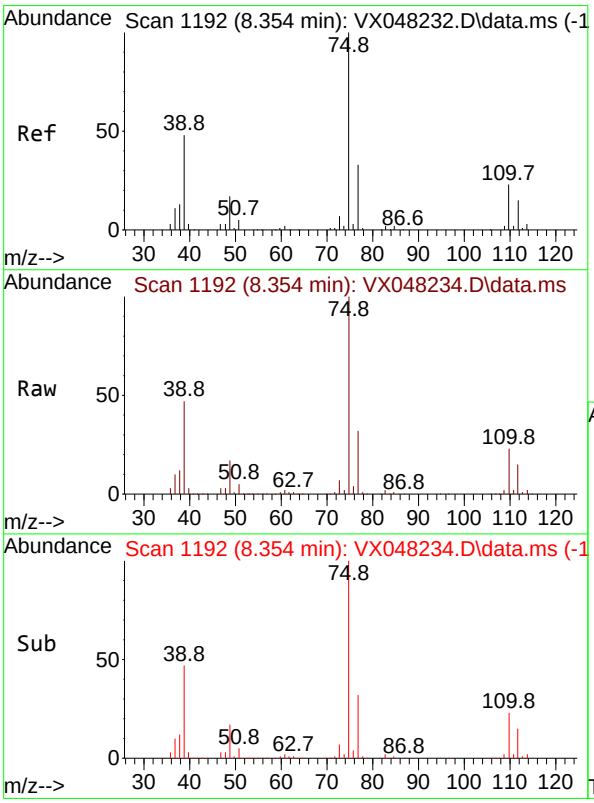
Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

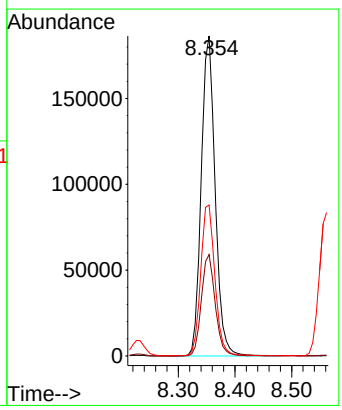
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

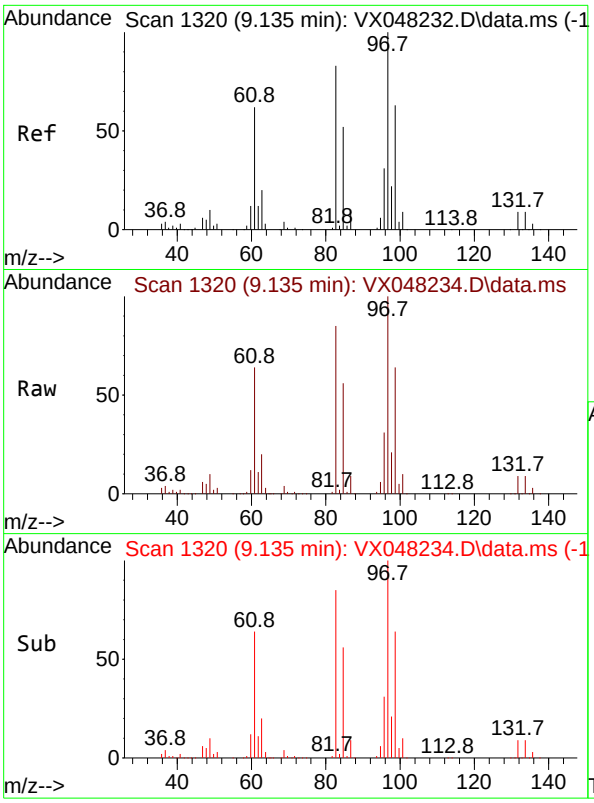


#54
cis-1,3-Dichloropropene
Concen: 150.373 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 75 Resp: 317375

Ion	Ratio	Lower	Upper
75	100		
77	31.7	24.9	37.3
39	47.1	42.6	64.0

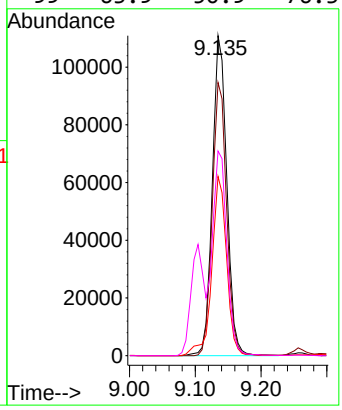




#55
1,1,2-Trichloroethane
Concen: 144.250 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 97 Resp: 16989

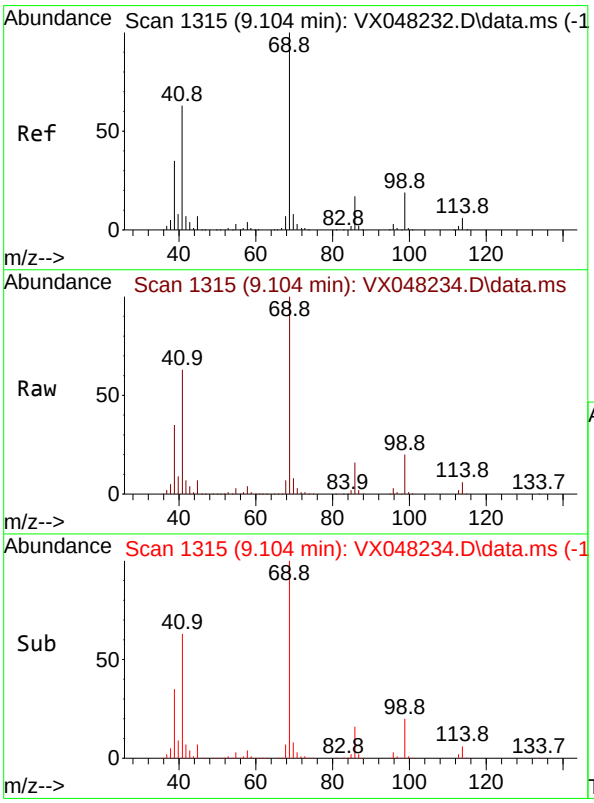
Ion	Ratio	Lower	Upper
97	100		
83	85.4	70.6	105.8
85	56.0	45.0	67.6
99	63.9	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

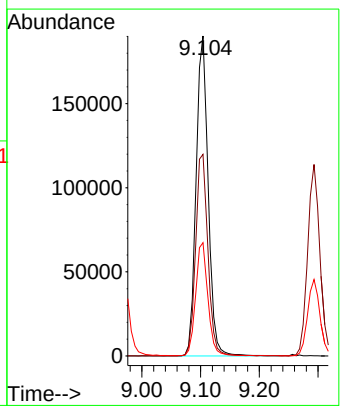
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

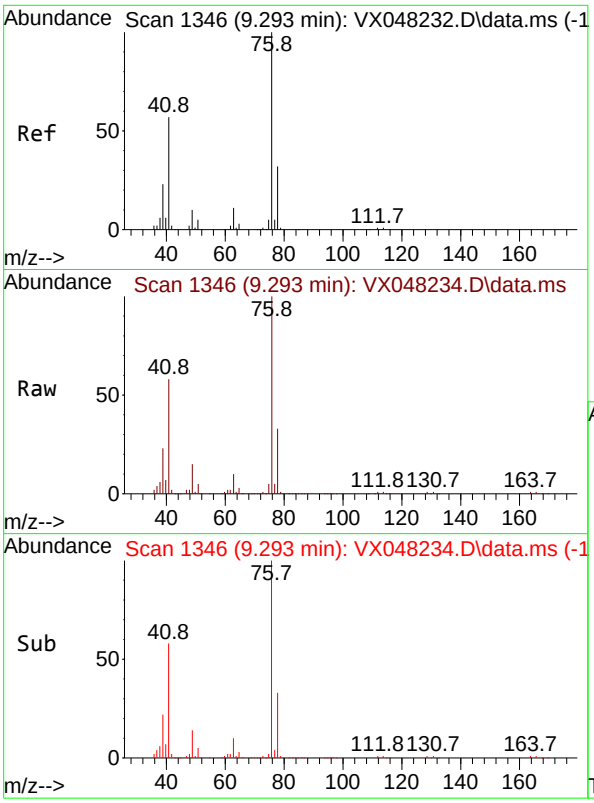


#56
Ethyl methacrylate
Concen: 169.911 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 69 Resp: 272177

Ion	Ratio	Lower	Upper
69	100		
41	64.4	56.0	84.0
39	36.1	31.6	47.4





#57
1,3-Dichloropropane
Concen: 142.707 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

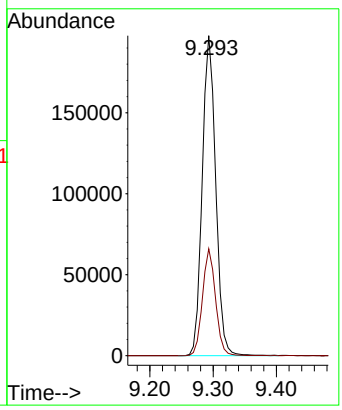
Tgt Ion: 76 Resp: 29365

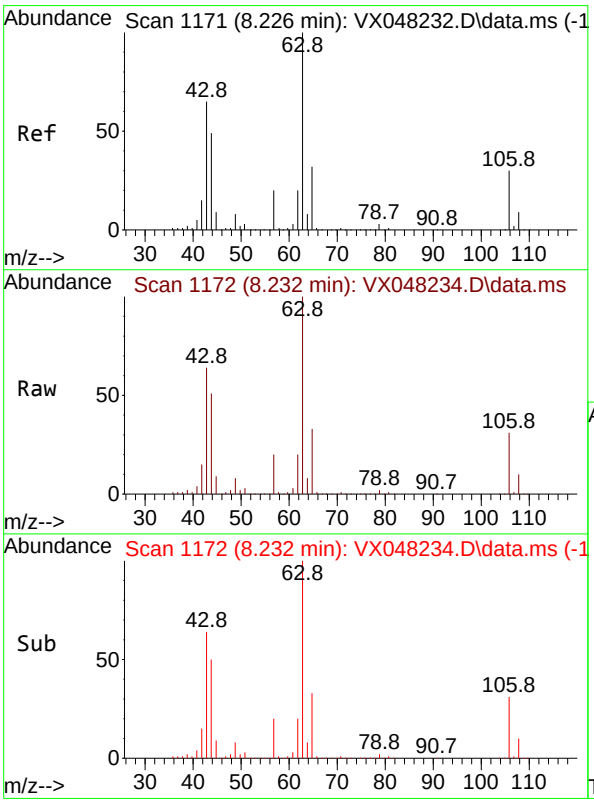
Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.4	38.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

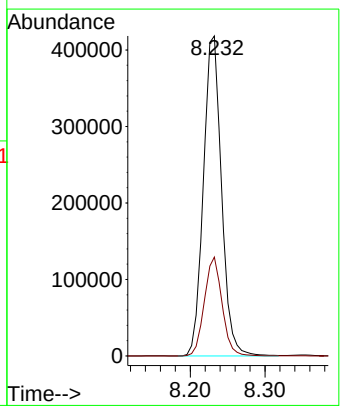


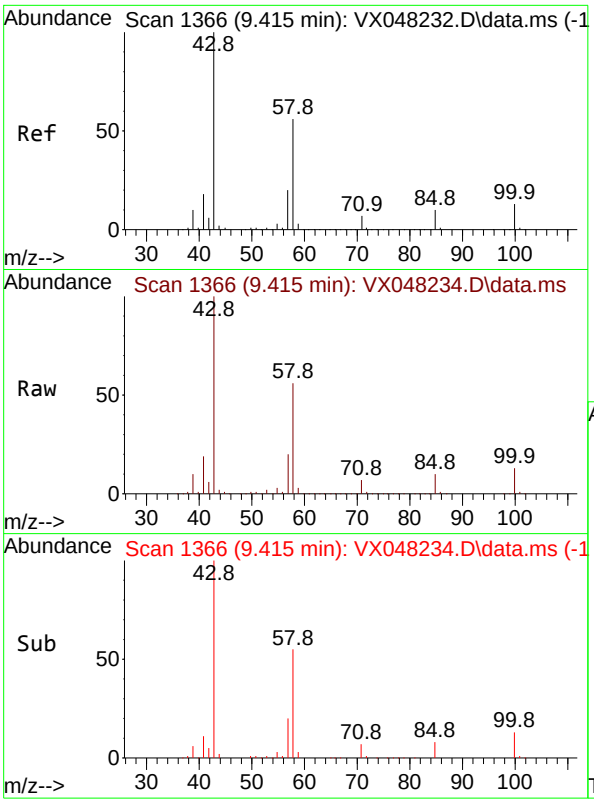


#58
2-Chloroethyl Vinyl ether
Concen: 858.056 ug/l
RT: 8.232 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 63 Resp: 705780

Ion	Ratio	Lower	Upper
63	100		
106	30.2	22.2	33.2





#59
2-Hexanone
Concen: 752.256 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

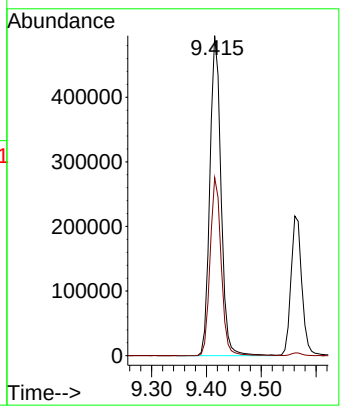
Tgt Ion: 43 Resp: 69473

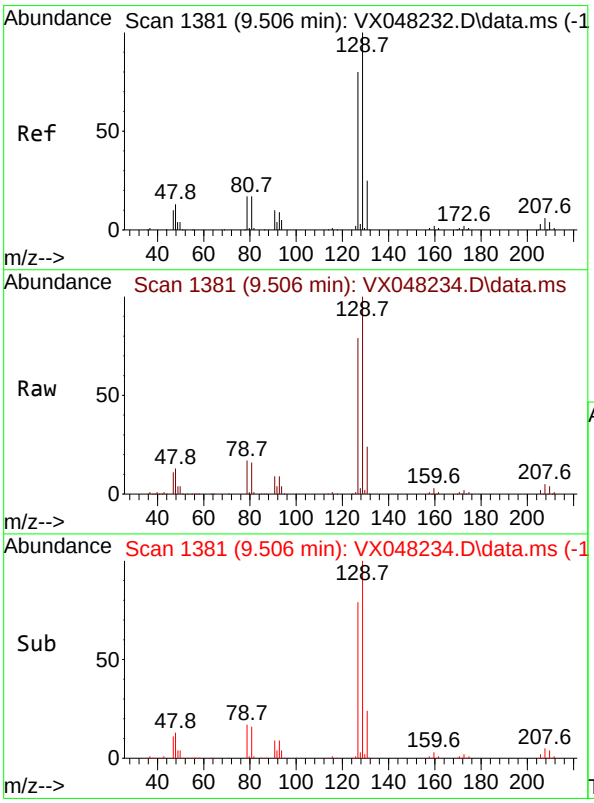
Ion	Ratio	Lower	Upper
43	100		
58	55.6	26.3	78.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

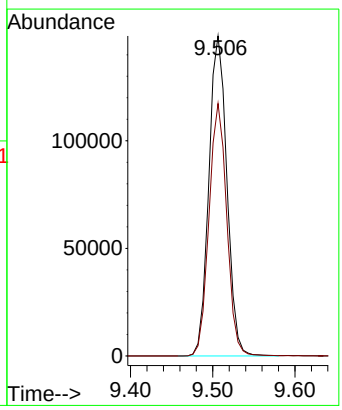


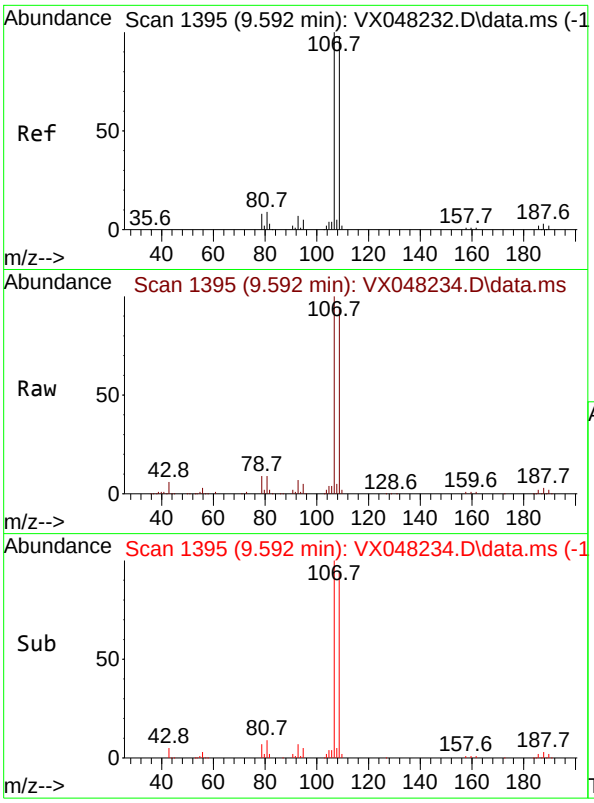


#60
Dibromochloromethane
Concen: 153.740 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:129 Resp: 226642

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.6	115.7





#61
1,2-Dibromoethane
Concen: 150.876 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

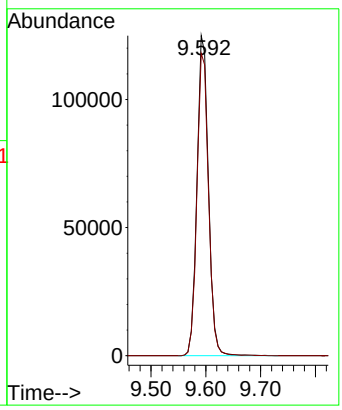
Tgt Ion:107 Resp: 18220

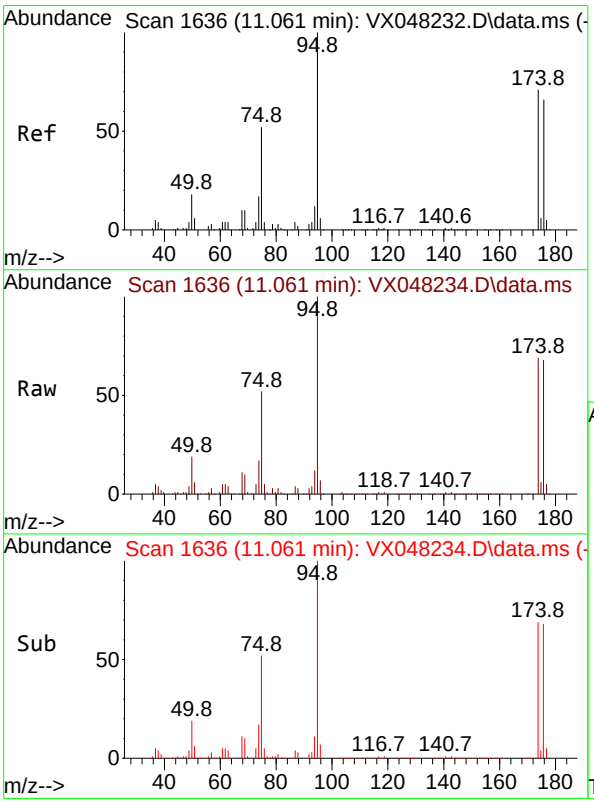
Ion	Ratio	Lower	Upper
107	100		
109	95.6	77.0	115.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

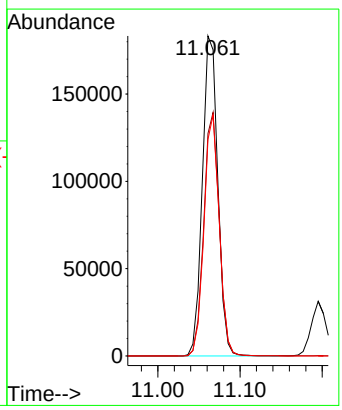


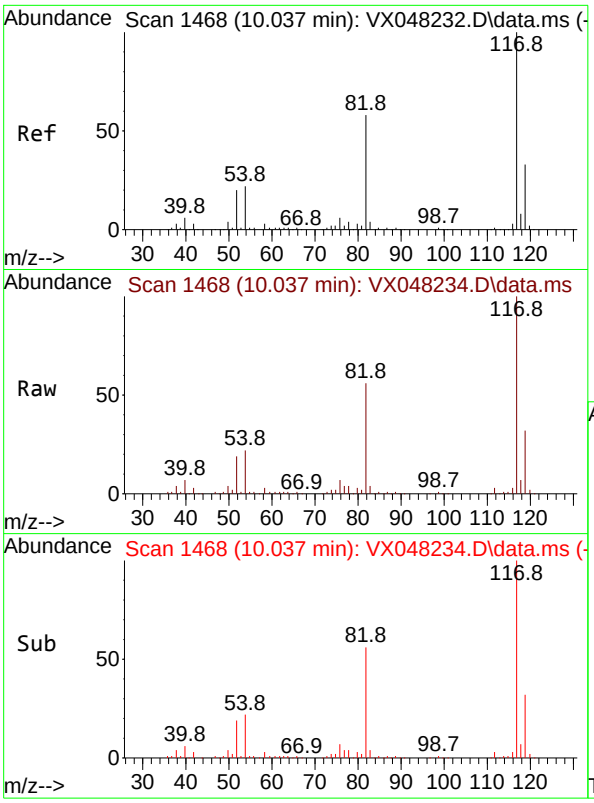


#62
4-Bromofluorobenzene
Concen: 145.255 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 95 Resp: 239298

Ion	Ratio	Lower	Upper
95	100		
174	76.0	0.0	147.8
176	74.2	0.0	142.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

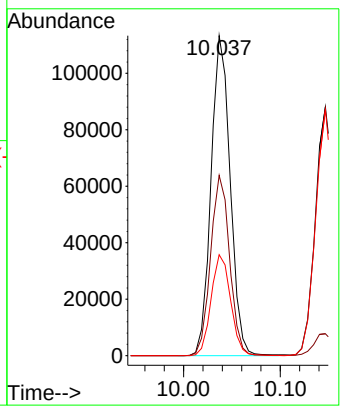
Tgt Ion:117 Resp: 15575

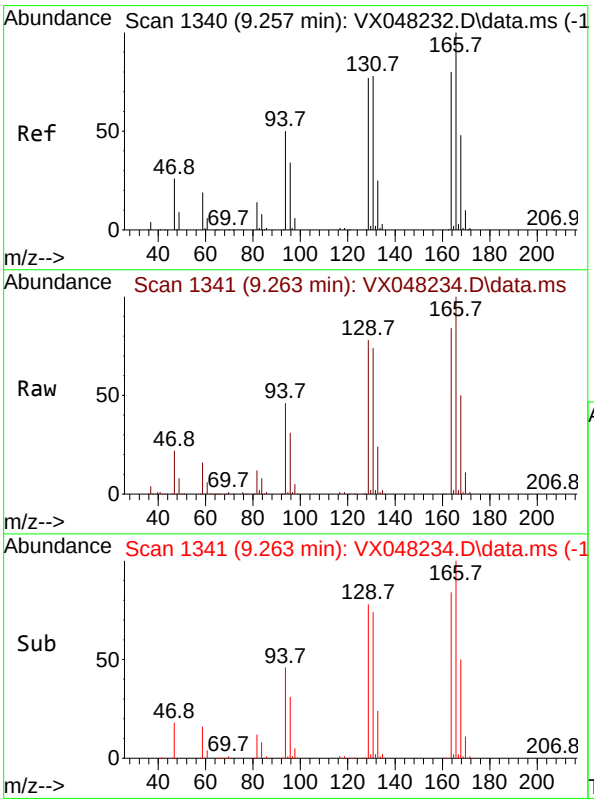
Ion	Ratio	Lower	Upper
117	100		
82	56.4	46.5	69.7
119	31.5	25.9	38.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

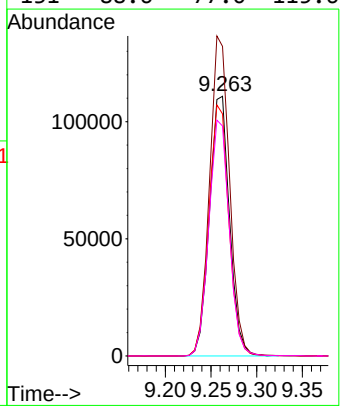


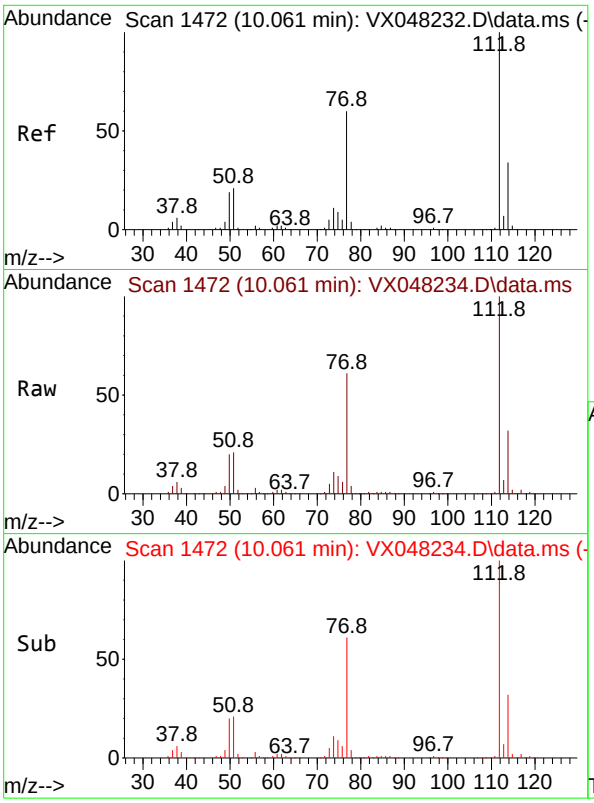


#64
Tetrachloroethene
Concen: 154.361 ug/l
RT: 9.263 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:164 Resp: 168581

Ion	Ratio	Lower	Upper
164	100		
166	119.3	104.5	156.7
129	93.2	81.8	122.6
131	88.6	77.0	115.6

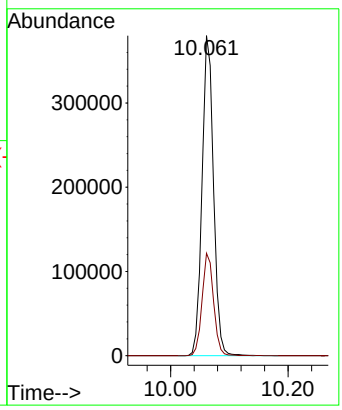




#65
Chlorobenzene
Concen: 151.209 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:112 Resp: 51496

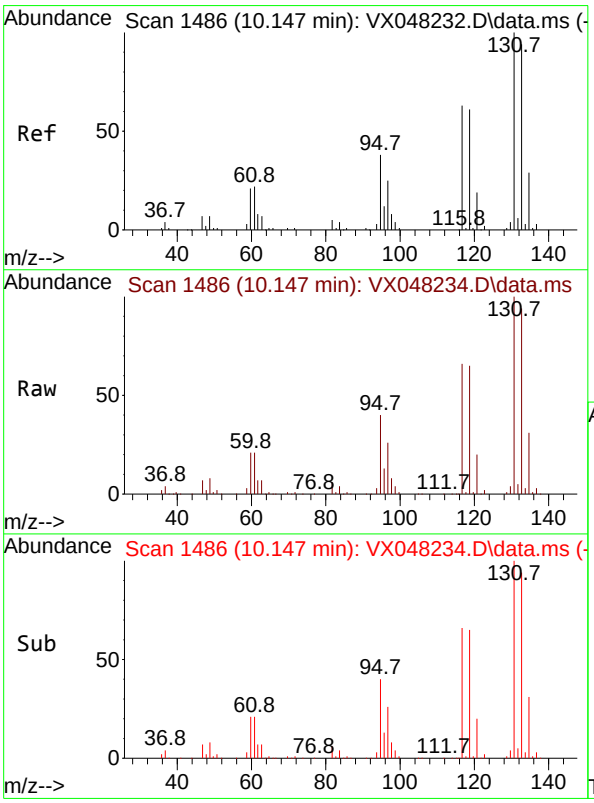
Ion	Ratio	Lower	Upper
112	100		
114	32.0	26.2	39.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

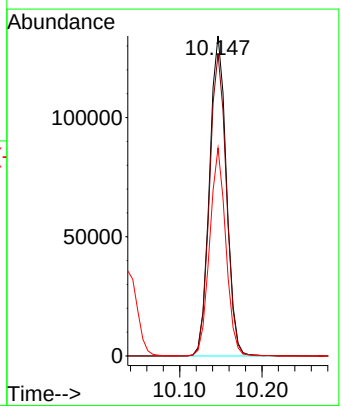
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

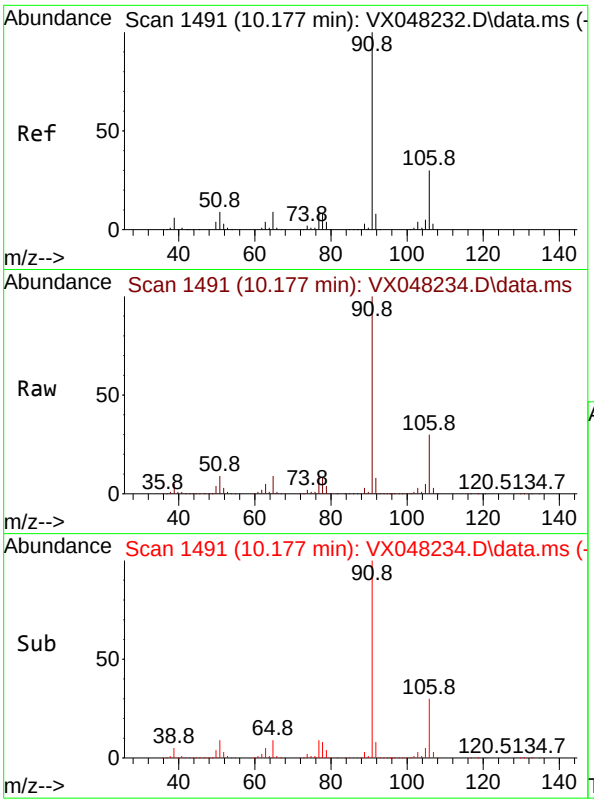


#66
1,1,1,2-Tetrachloroethane
Concen: 155.782 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:131 Resp: 191186

Ion	Ratio	Lower	Upper
131	100		
133	94.4	47.6	142.8
119	62.3	32.5	97.5





#67
Ethyl Benzene
Concen: 153.825 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

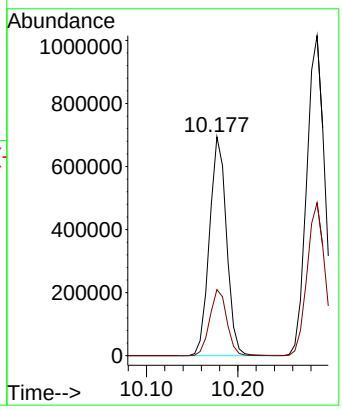
Tgt Ion: 91 Resp: 89813

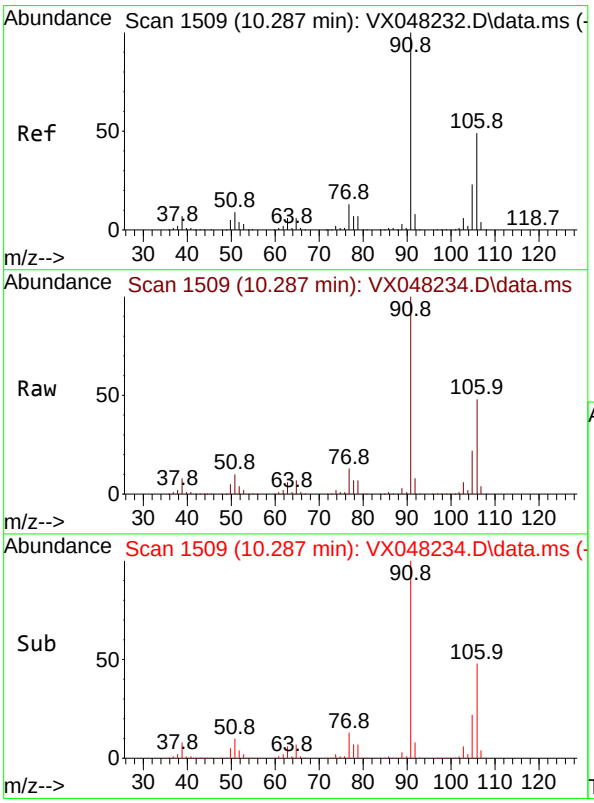
Ion	Ratio	Lower	Upper
91	100		
106	30.2	23.8	35.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

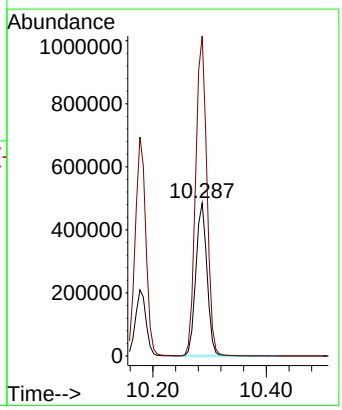


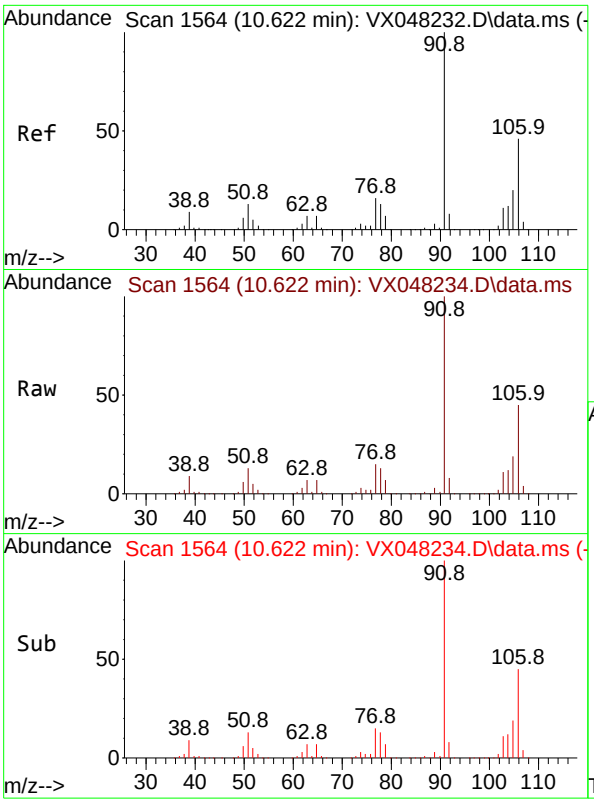


#68
m/p-Xylenes
Concen: 303.896 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:106 Resp: 661019

Ion	Ratio	Lower	Upper
106	100		
91	211.4	167.9	251.9





#69
o-Xylene
Concen: 156.444 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

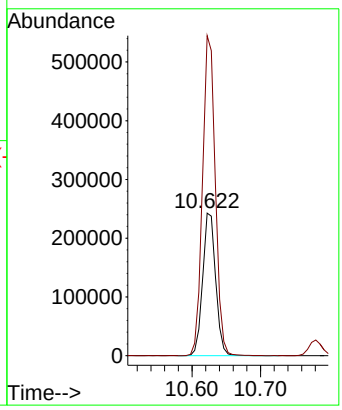
Tgt Ion:106 Resp: 32033

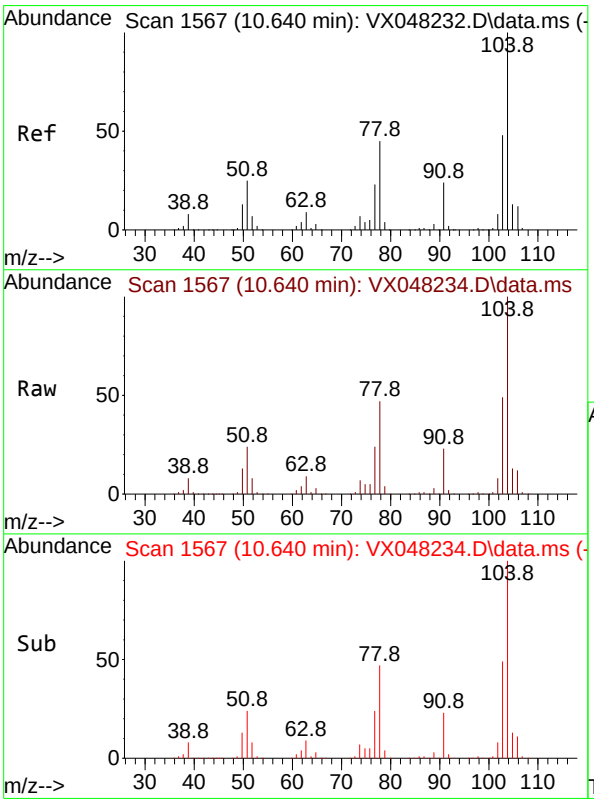
Ion	Ratio	Lower	Upper
106	100		
91	221.5	111.3	333.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

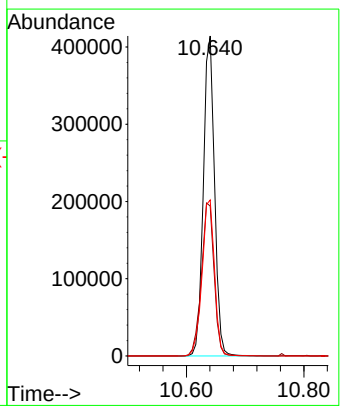


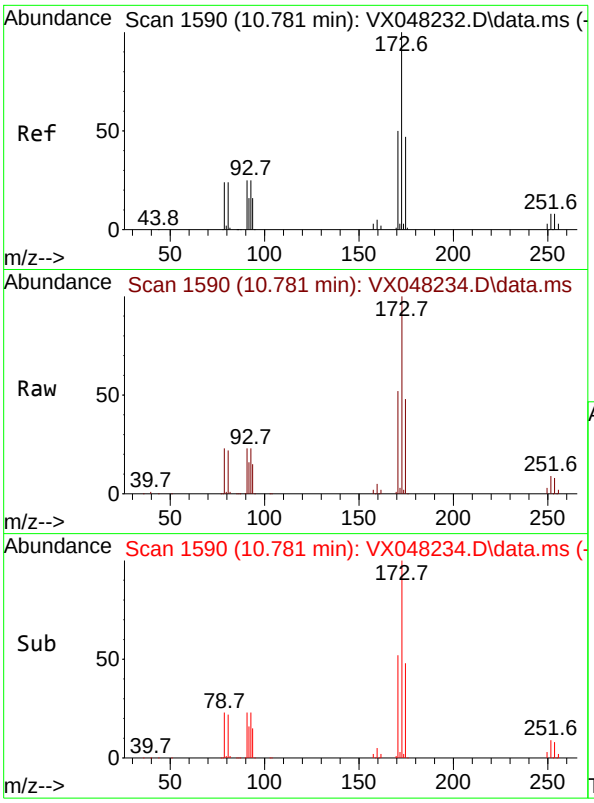


#70
Styrene
Concen: 155.523 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:104 Resp: 548149

Ion	Ratio	Lower	Upper
104	100		
78	54.3	42.2	63.4
103	54.4	43.0	64.4

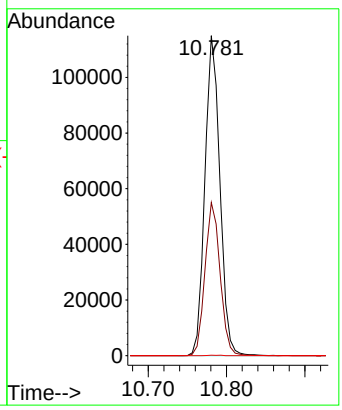




#71
Bromoform
Concen: 168.892 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:173 Resp: 15220

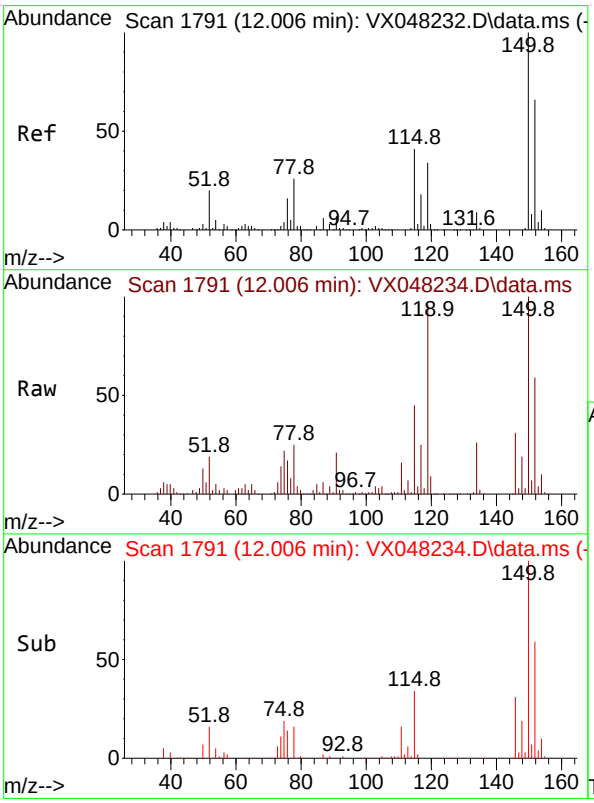
Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.0	72.0
254	0.1	0.0	0.0#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

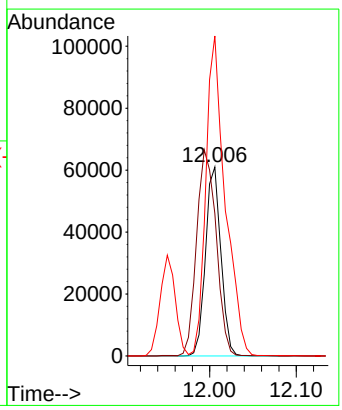
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

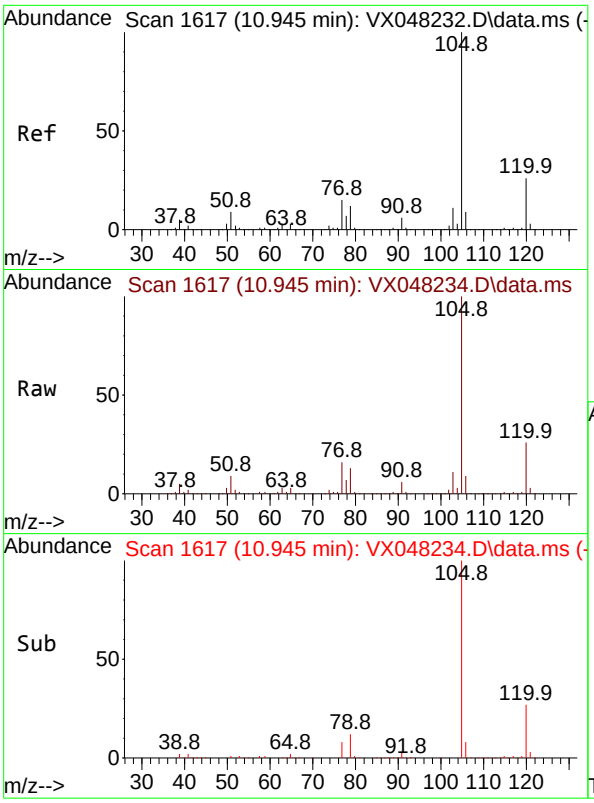


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:152 Resp: 75397

Ion	Ratio	Lower	Upper
152	100		
115	138.9	43.1	129.4#
150	212.6	0.0	353.0





#73
Isopropylbenzene
Concen: 161.931 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

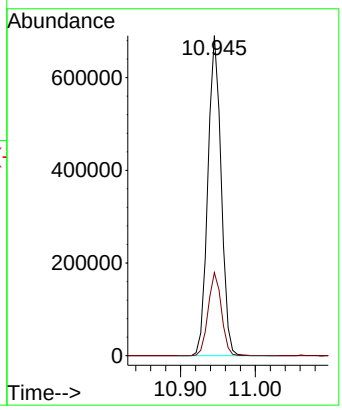
Tgt Ion:105 Resp: 84918

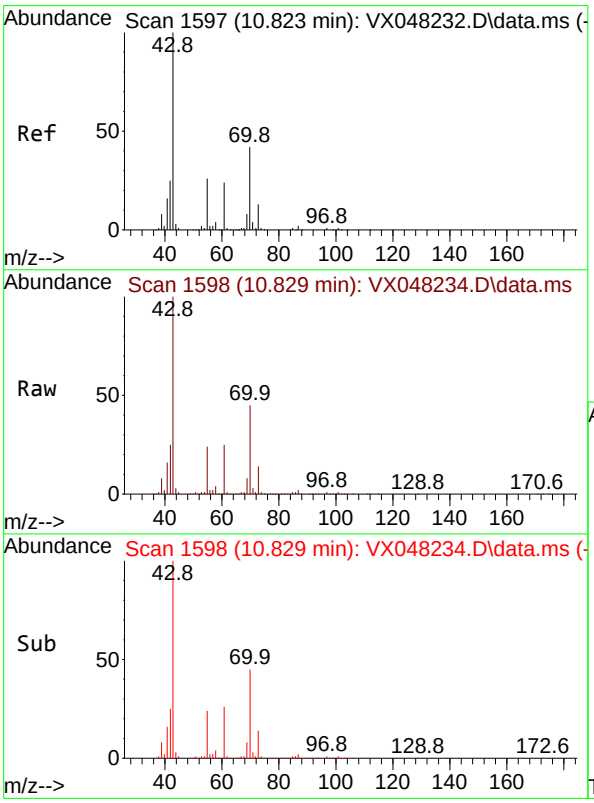
Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.0	38.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

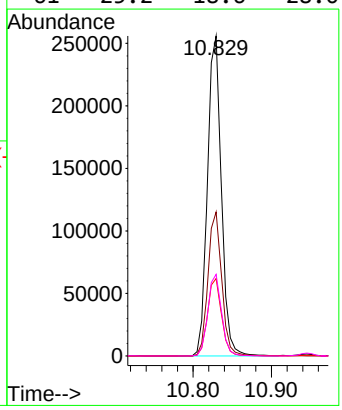


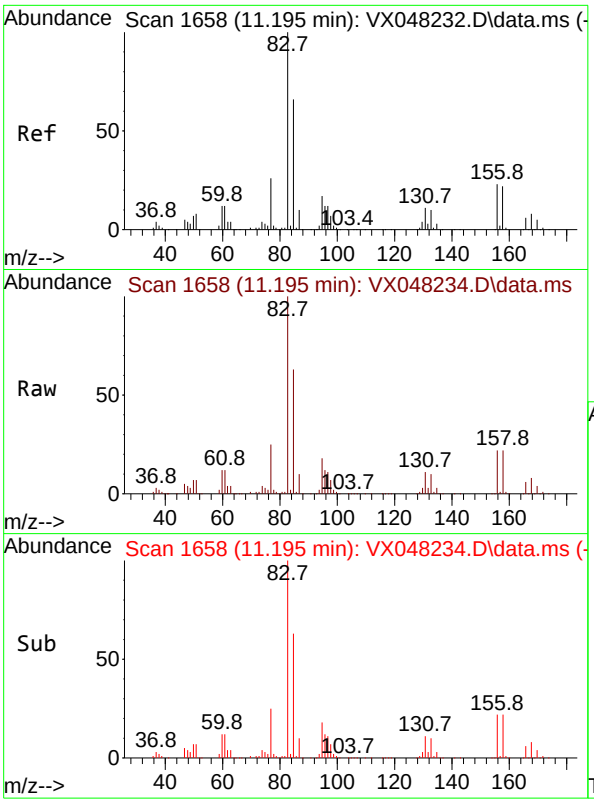


#74
N-amyl acetate
Concen: 160.952 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 43 Resp: 314879

Ion	Ratio	Lower	Upper
43	100		
70	44.5	32.2	48.2
55	24.4	19.1	28.7
61	25.2	18.6	28.0





#75
1,1,2,2-Tetrachloroethane
Concen: 151.104 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

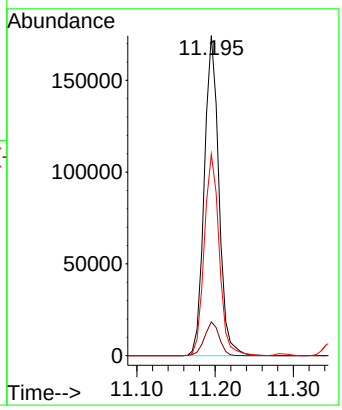
Tgt Ion: 83 Resp: 22448

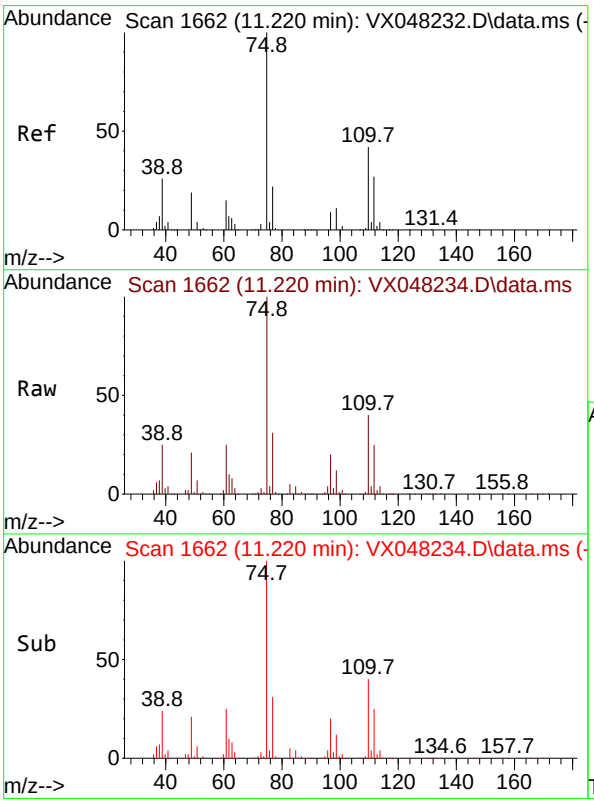
Ion	Ratio	Lower	Upper
83	100		
131	10.7	4.8	14.4
85	64.6	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

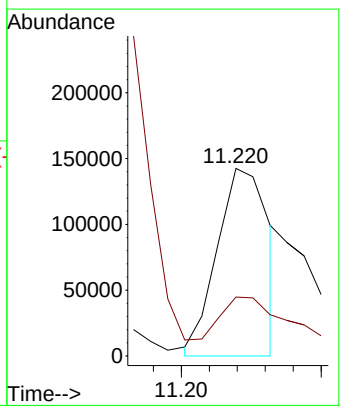


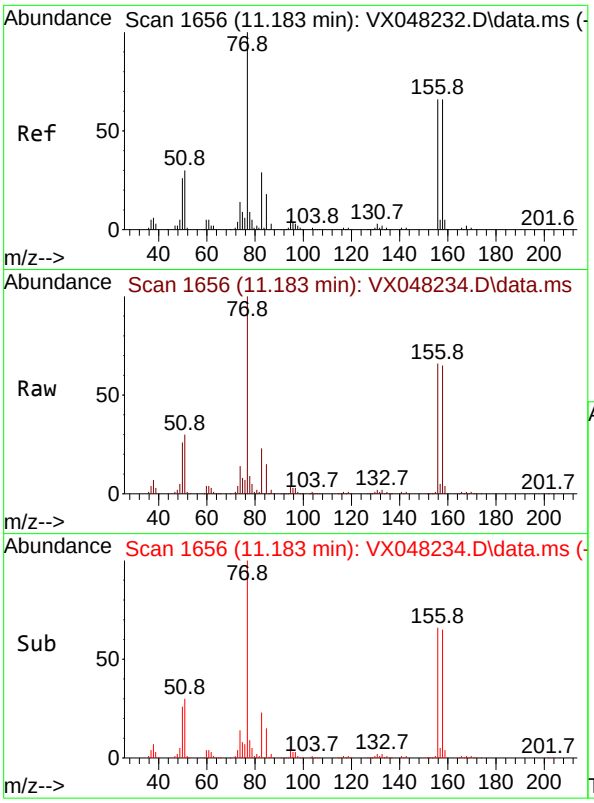


#76
1,2,3-Trichloropropane
Concen: 157.586 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 75 Resp: 181434

Ion	Ratio	Lower	Upper
75	100		
77	44.8	22.4	67.2





#77
Bromobenzene
Concen: 157.899 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

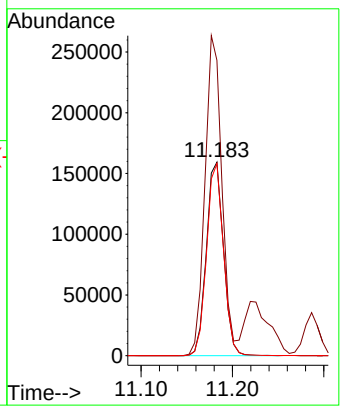
Tgt Ion:156 Resp: 20721

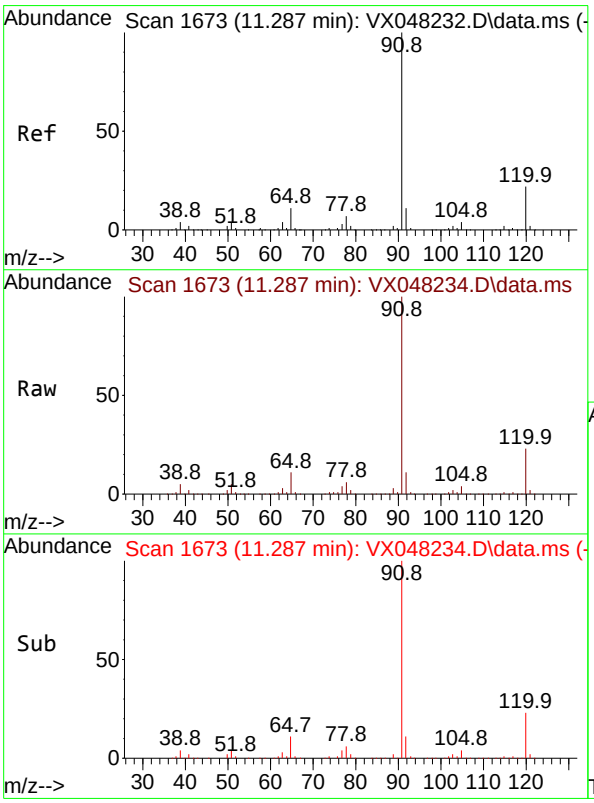
Ion	Ratio	Lower	Upper
156	100		
77	161.9	87.0	261.0
158	97.9	47.8	143.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

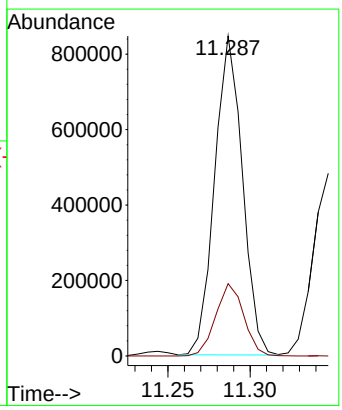


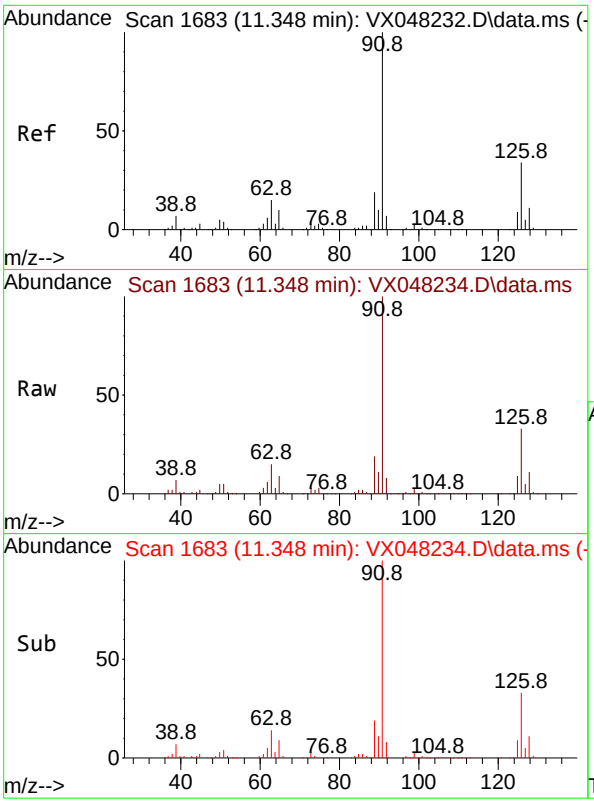


#78
n-propylbenzene
Concen: 155.984 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 91 Resp: 991960

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.1	33.1





#79
2-Chlorotoluene
Concen: 152.465 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

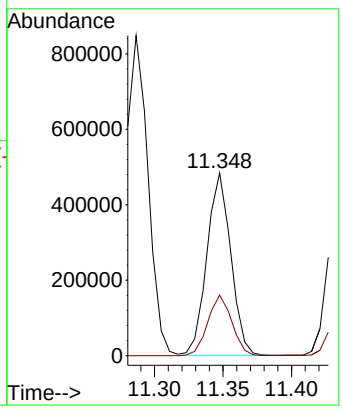
Tgt Ion: 91 Resp: 58579

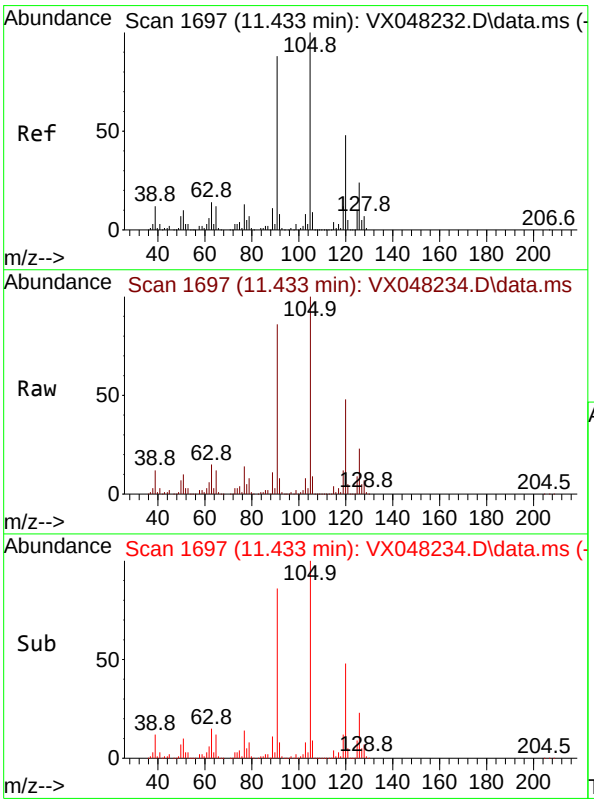
Ion	Ratio	Lower	Upper
91	100		
126	33.5	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

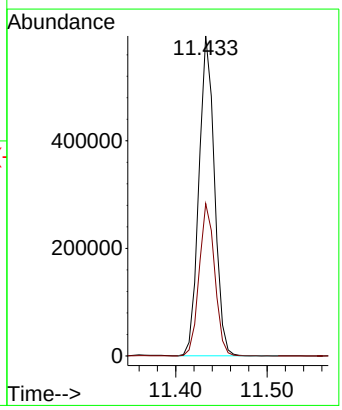


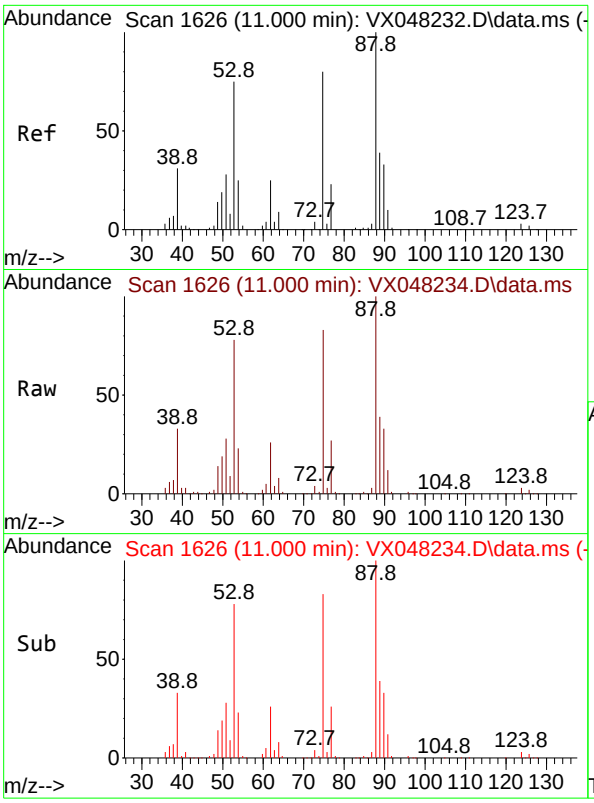


#80
1,3,5-Trimethylbenzene
Concen: 162.591 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:105 Resp: 699885

Ion	Ratio	Lower	Upper
105	100		
120	47.7	24.0	72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 176.858 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

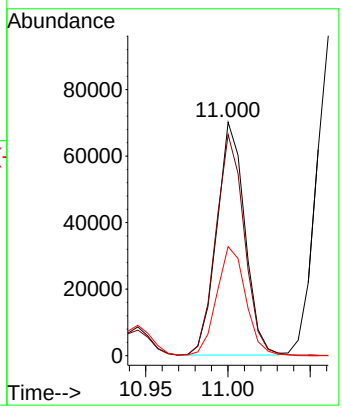
Tgt Ion: 75 Resp: 8315

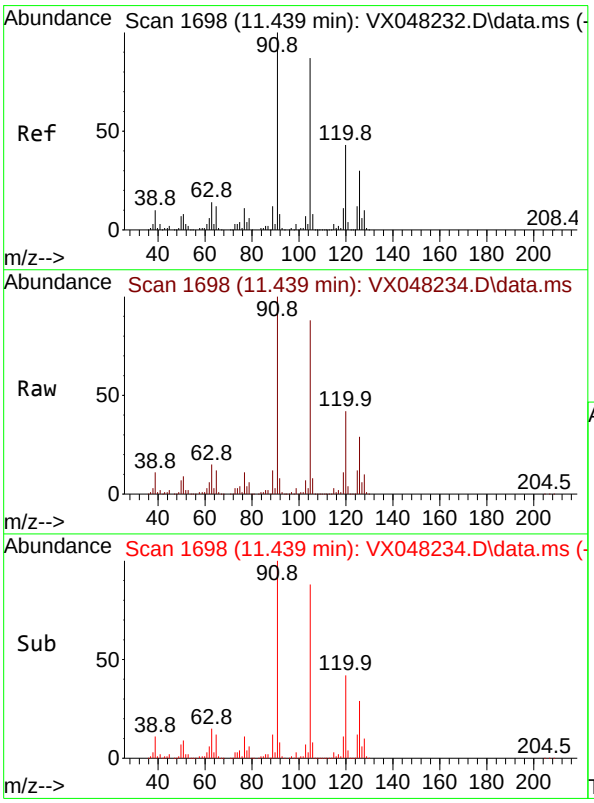
Ion	Ratio	Lower	Upper
75	100		
53	96.5	79.5	119.3
89	48.6	36.8	55.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

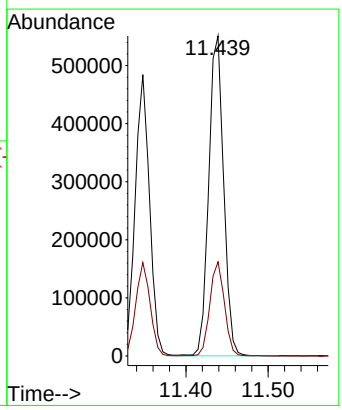


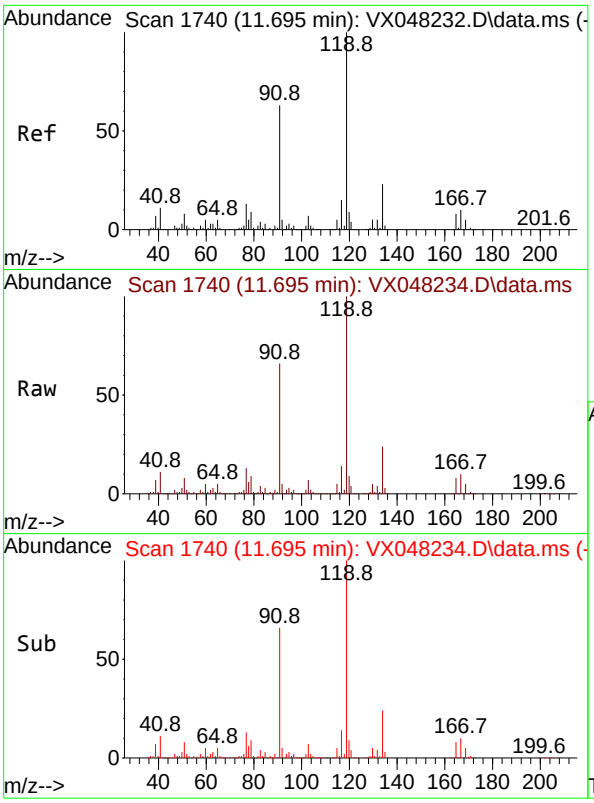


#82
4-Chlorotoluene
Concen: 153.240 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 91 Resp: 691903

Ion	Ratio	Lower	Upper
91	100		
126	29.0	14.1	42.4

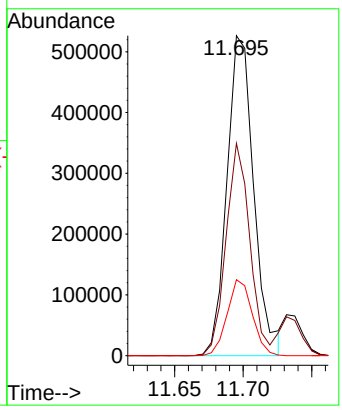




#83
tert-Butylbenzene
Concen: 165.020 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:119 Resp: 71764

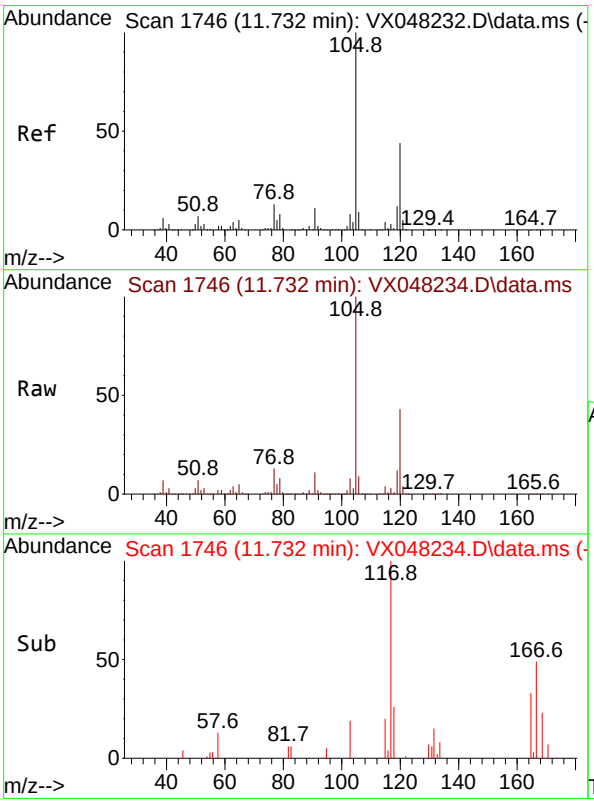
Ion	Ratio	Lower	Upper
119	100		
91	58.9	30.3	91.0
134	22.3	11.4	34.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

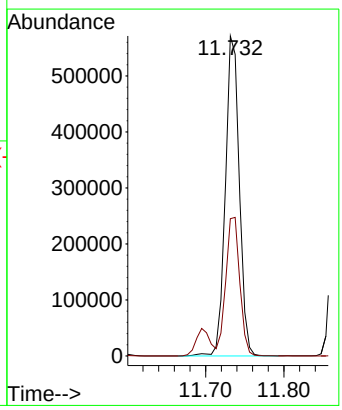
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

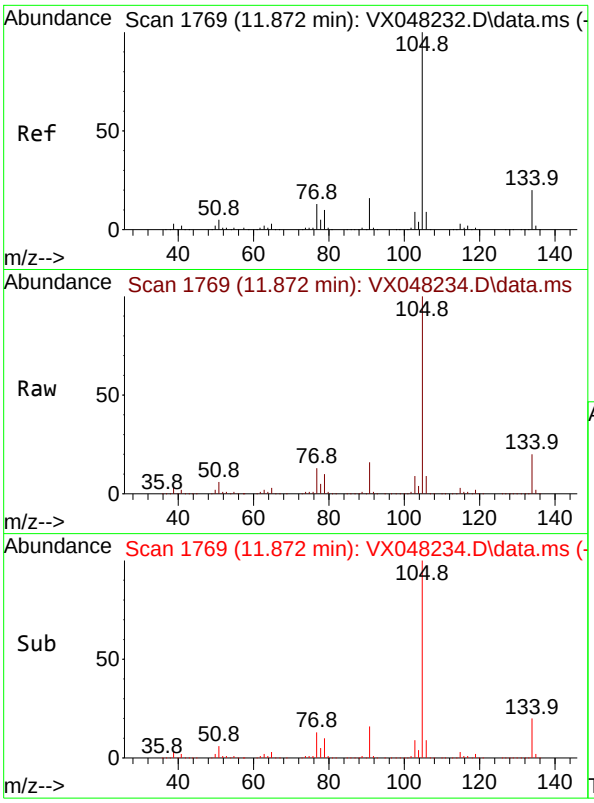


#84
1,2,4-Trimethylbenzene
Concen: 164.961 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:105 Resp: 707074

Ion	Ratio	Lower	Upper
105	100		
120	43.5	22.1	66.5

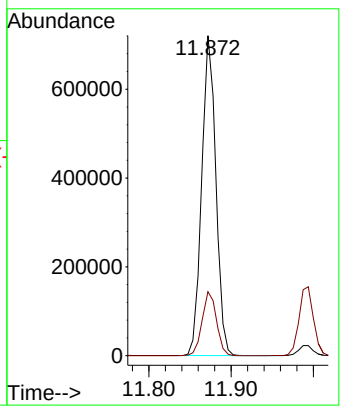




#85
sec-Butylbenzene
Concen: 162.035 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:105 Resp: 86146

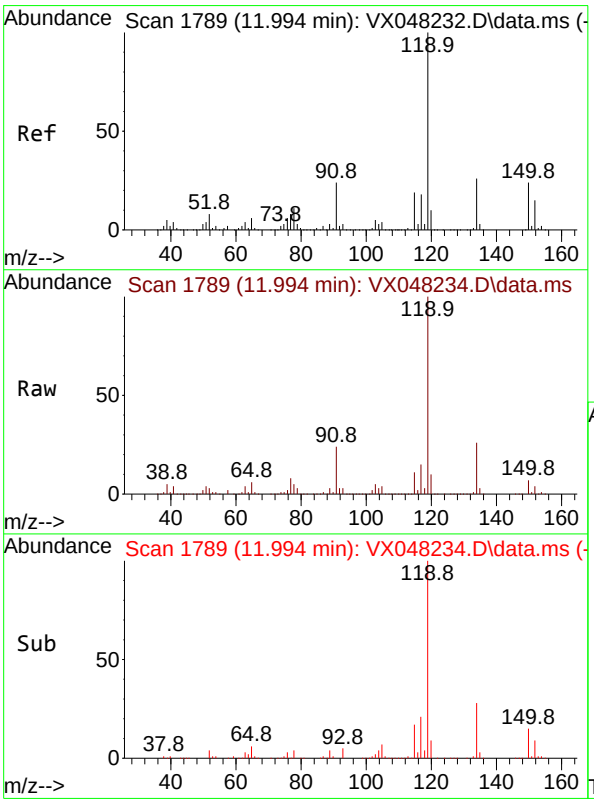
Ion	Ratio	Lower	Upper
105	100		
134	20.3	10.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

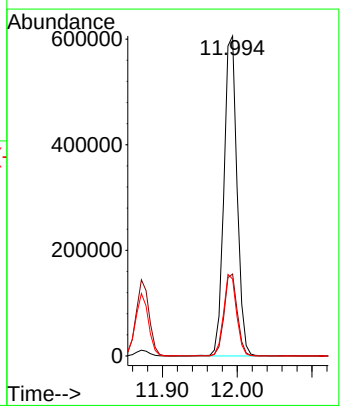
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

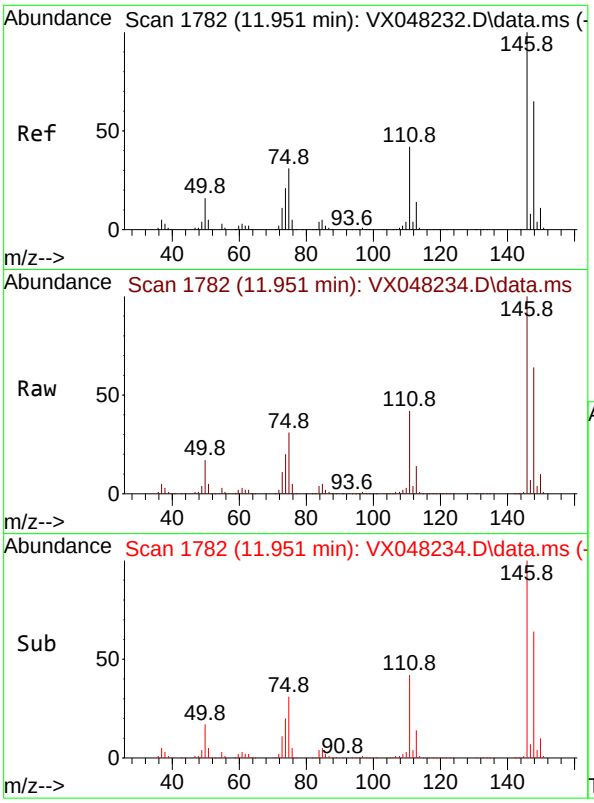


#86
p-Isopropyltoluene
Concen: 164.794 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:119 Resp: 738496

Ion	Ratio	Lower	Upper
119	100		
134	25.6	13.0	39.0
91	25.1	12.1	36.3

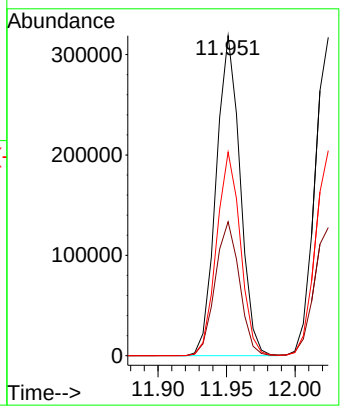




#87
1,3-Dichlorobenzene
Concen: 157.307 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:146 Resp: 38606

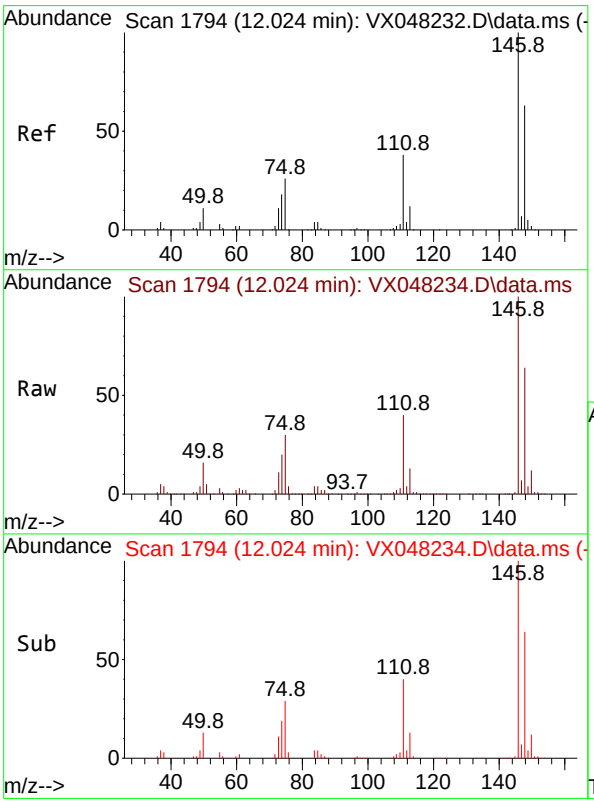
Ion	Ratio	Lower	Upper
146	100		
111	42.7	20.4	61.2
148	63.5	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

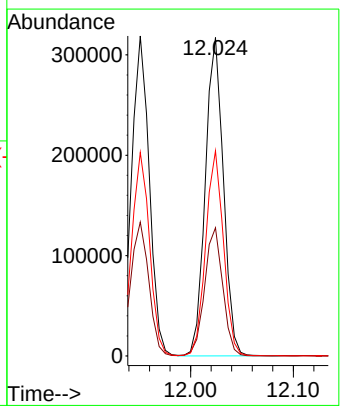
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

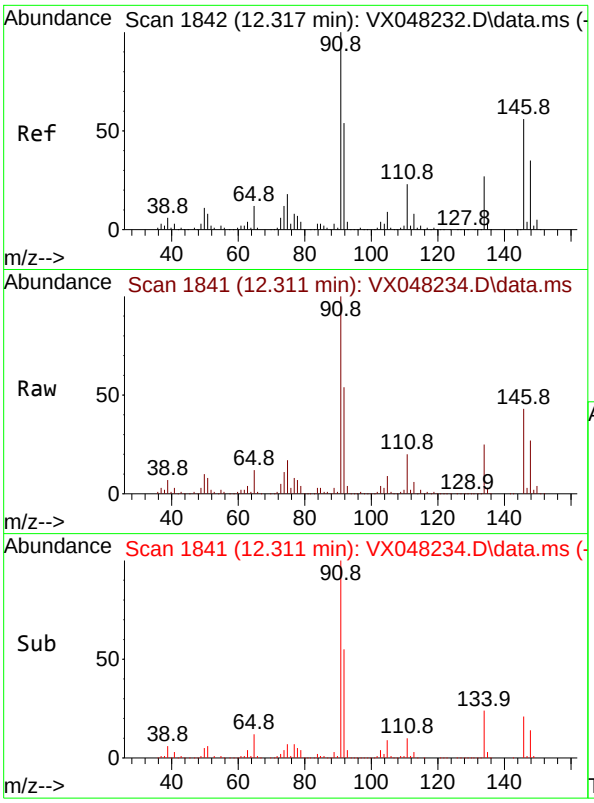


#88
1,4-Dichlorobenzene
Concen: 152.078 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:146 Resp: 386885

Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.1	60.2
148	63.4	31.8	95.3

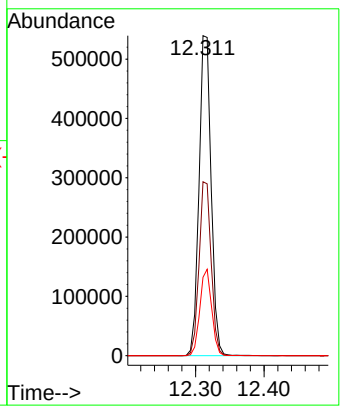




#89
n-Butylbenzene
Concen: 159.098 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 91 Resp: 66407

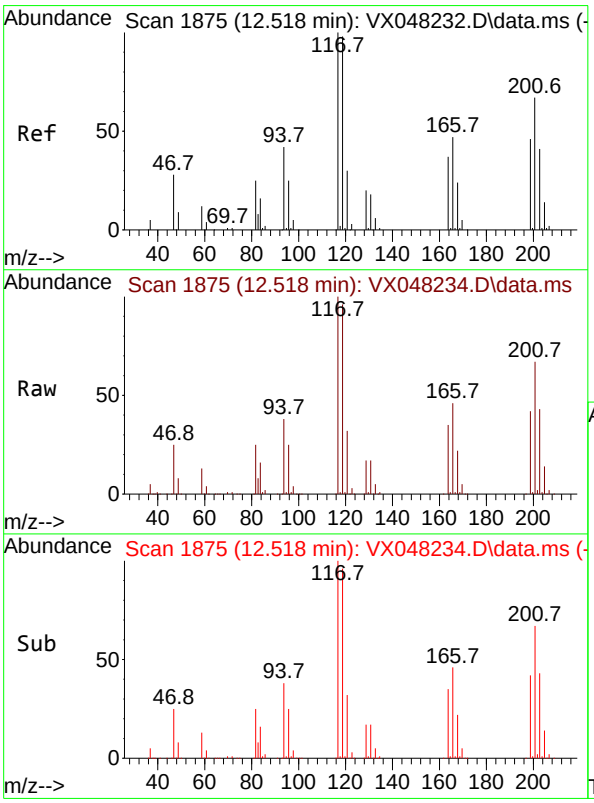
Ion	Ratio	Lower	Upper
91	100		
92	54.4	26.9	80.6
134	26.3	12.7	38.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

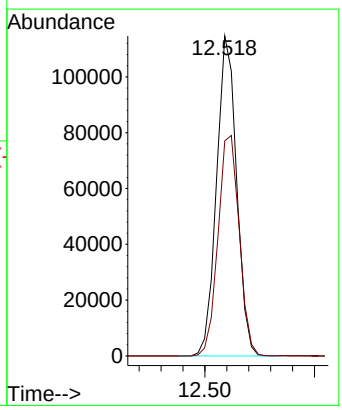
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

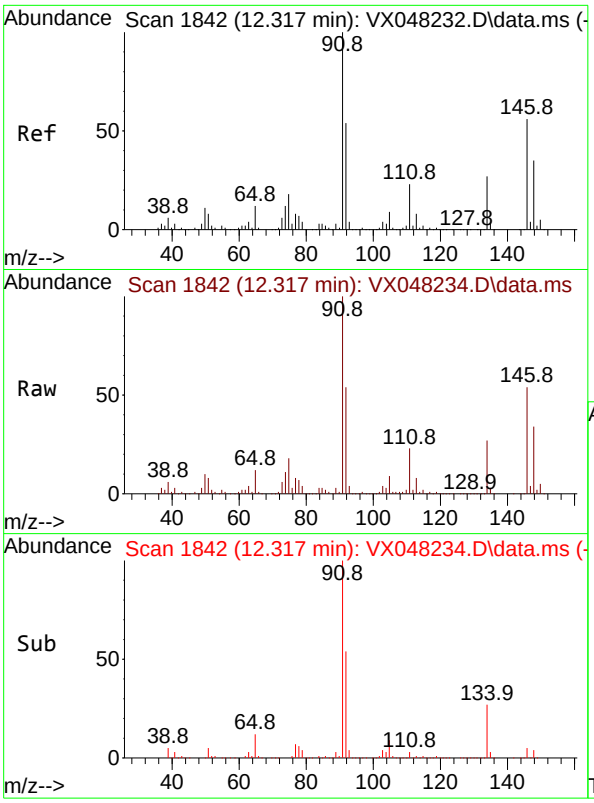


#90
Hexachloroethane
Concen: 154.159 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:117 Resp: 145813

Ion	Ratio	Lower	Upper
117	100		
201	73.0	34.1	102.2

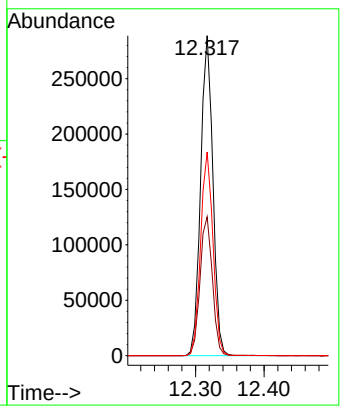




#91
1,2-Dichlorobenzene
Concen: 154.946 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:146 Resp: 35927

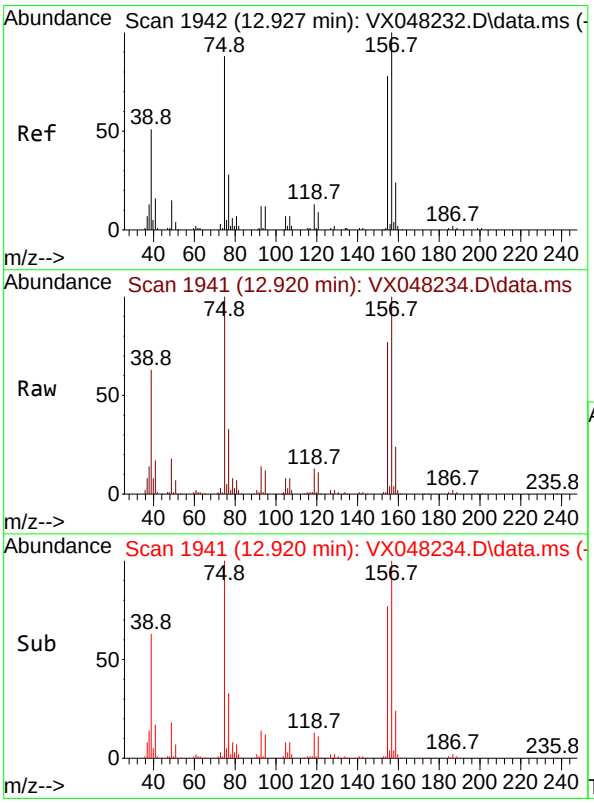
Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.9	65.5
148	64.4	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

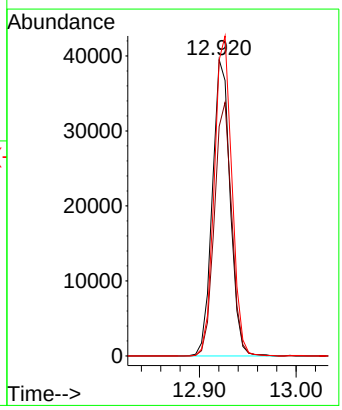
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

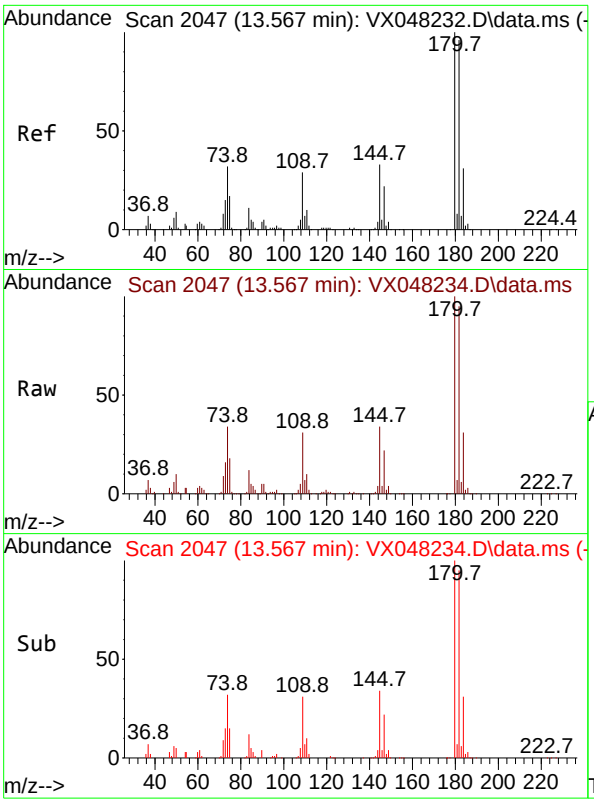


#92
1,2-Dibromo-3-Chloropropane
Concen: 185.536 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 75 Resp: 50367

Ion	Ratio	Lower	Upper
75	100		
155	83.7	42.8	128.4
157	106.9	54.2	162.6

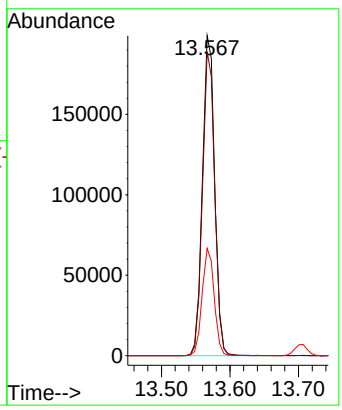




#93
1,2,4-Trichlorobenzene
Concen: 180.791 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:180 Resp: 24747

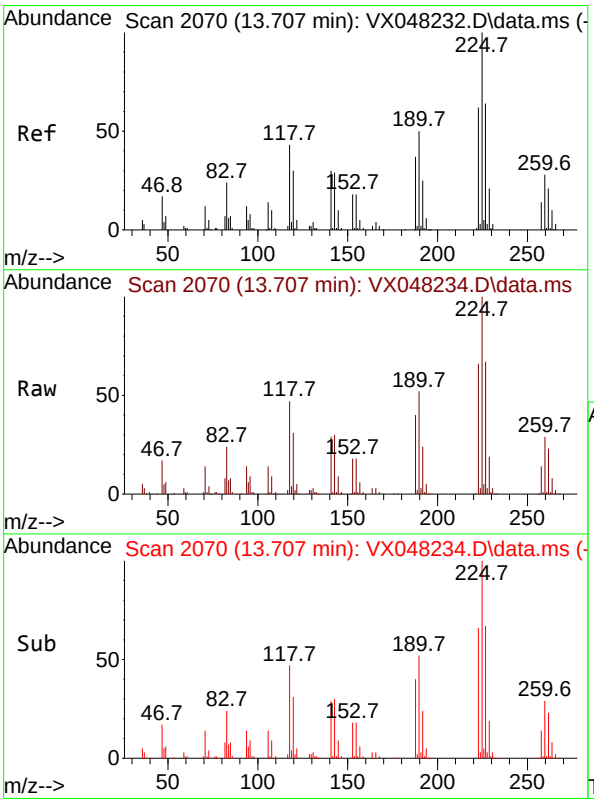
Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.3	142.0
145	33.2	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

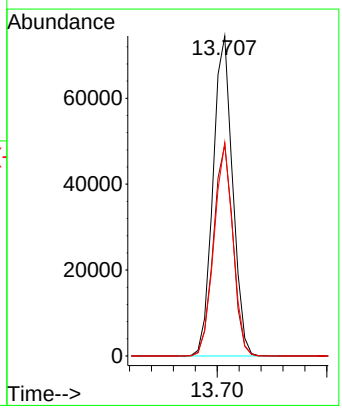
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

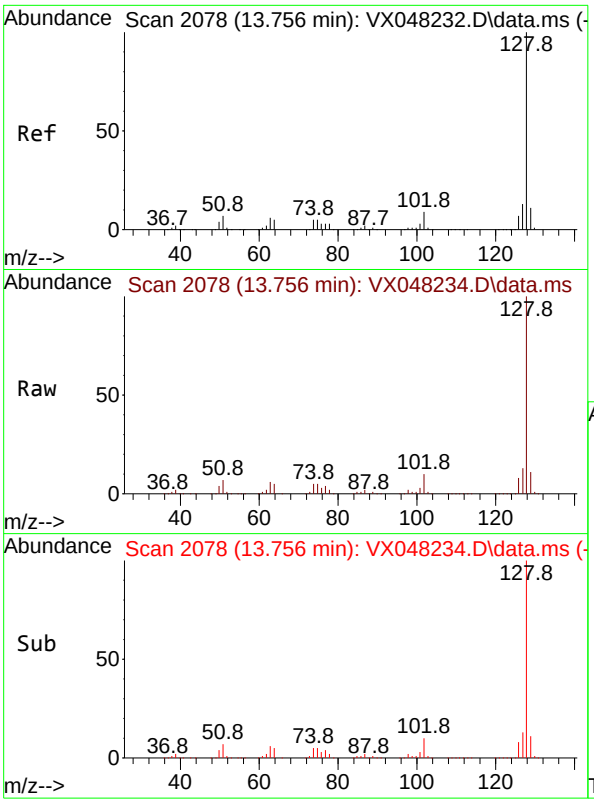


#94
Hexachlorobutadiene
Concen: 175.138 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:225 Resp: 92458

Ion	Ratio	Lower	Upper
225	100		
223	65.2	32.6	97.7
227	64.3	32.5	97.4

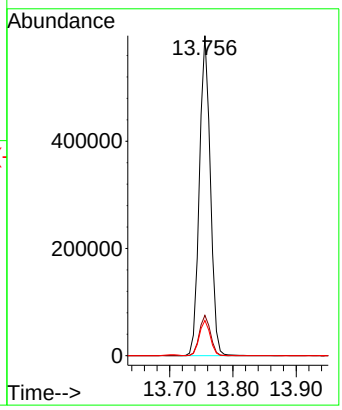




#95
Naphthalene
Concen: 199.386 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:128 Resp: 71943

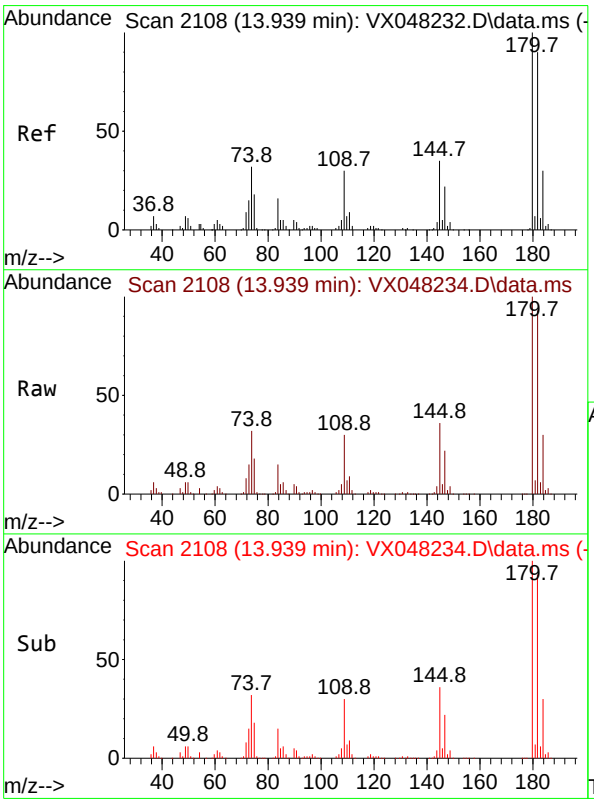
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.4
129	11.0	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

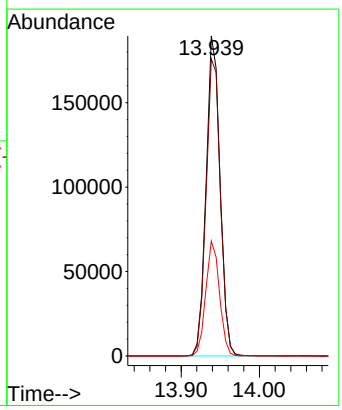
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 185.022 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:180 Resp: 233671

Ion	Ratio	Lower	Upper
180	100		
182	95.5	46.6	139.7
145	35.4	16.9	50.7



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048236.D
Acq On : 20 Oct 2025 13:49
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 14:07:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 13:10:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.537	168	138374	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.751	114	228619	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.037	117	208481	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	105998	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.940	65	10036	4.008	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	8.020%#			
35) Dibromofluoromethane	5.379	113	7733	3.839	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	7.680%#			
50) Toluene-d8	8.634	98	27914	3.999	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	8.000%#			
62) 4-Bromofluorobenzene	11.067	95	11429	4.042	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	8.080%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.172	85	7219	5.194	ug/l		93
3) Chloromethane	1.300	50	7032	5.531	ug/l		95
4) Vinyl Chloride	1.380	62	6338	5.341	ug/l		98
5) Bromomethane	1.611	94	4789	5.918	ug/l		99
6) Chloroethane	1.691	64	3610	5.085	ug/l		99
7) Trichlorofluoromethane	1.898	101	12170	5.319	ug/l		96
8) Diethyl Ether	2.136	74	3283	5.035	ug/l		87
9) 1,1,2-Trichlorotrifluo...	2.337	101	7656	5.264	ug/l		92
10) Methyl Iodide	2.453	142	7871	4.284	ug/l		98
11) Tert butyl alcohol	2.940	59	5994	33.503	ug/l	#	80
12) 1,1-Dichloroethene	2.325	96	7107	4.991	ug/l		91
13) Acrolein	2.233	56	5456	27.637	ug/l		96
14) Allyl chloride	2.666	41	11531	4.839	ug/l		96
15) Acrylonitrile	3.062	53	16982	24.912	ug/l		97
16) Acetone	2.373	43	18141	27.636	ug/l		100
17) Carbon Disulfide	2.520	76	23369	5.270	ug/l		96
18) Methyl Acetate	2.703	43	6418	4.639	ug/l		98
19) Methyl tert-butyl Ether	3.111	73	22931	4.663	ug/l		97
20) Methylene Chloride	2.788	84	8228	5.163	ug/l	#	81
21) trans-1,2-Dichloroethene	3.093	96	8343	5.393	ug/l		94
22) Diisopropyl ether	3.757	45	23533	4.984	ug/l	#	97
23) Vinyl Acetate	3.721	43	91771	24.336	ug/l	#	90
24) 1,1-Dichloroethane	3.605	63	14582	5.126	ug/l	#	97
25) 2-Butanone	4.550	43	21808	26.293	ug/l	#	89
26) 2,2-Dichloropropane	4.471	77	13077	5.066	ug/l		99
27) cis-1,2-Dichloroethene	4.483	96	9312	5.084	ug/l		96
28) Bromochloromethane	4.885	49	6488	5.474	ug/l	#	89
29) Tetrahydrofuran	4.995	42	12637	25.353	ug/l		98
30) Chloroform	5.086	83	15814	5.159	ug/l		96
31) Cyclohexane	5.458	56	11661	4.943	ug/l		98
32) 1,1,1-Trichloroethane	5.367	97	14399	5.115	ug/l		98
36) 1,1-Dichloropropene	5.684	75	10855	5.001	ug/l		99
37) Ethyl Acetate	4.702	43	9058m	4.970	ug/l		
38) Carbon Tetrachloride	5.672	117	14225	5.323	ug/l	#	81
39) Methylcyclohexane	7.366	83	13491	5.318	ug/l		97
40) Benzene	6.031	78	32115	5.103	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048236.D
Acq On : 20 Oct 2025 13:49
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 20 14:07:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 13:10:39 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	4538m	4.817	ug/l		
42) 1,2-Dichloroethane	6.074	62	11412	4.870	ug/l		100
43) Isopropyl Acetate	6.330	43	13996	4.656	ug/l	#	93
44) Trichloroethene	7.110	130	8373	5.009	ug/l		93
45) 1,2-Dichloropropane	7.415	63	7709	5.129	ug/l		99
46) Dibromomethane	7.568	93	6041	5.181	ug/l		91
47) Bromodichloromethane	7.811	83	12974	5.126	ug/l		97
48) Methyl methacrylate	7.683	41	6863	4.542	ug/l		94
49) 1,4-Dioxane	7.659	88	2020	103.402	ug/l		97
51) 4-Methyl-2-Pentanone	8.555	43	42725	24.936	ug/l		97
52) Toluene	8.708	92	21137	5.296	ug/l		97
53) t-1,3-Dichloropropene	8.964	75	12015	4.914	ug/l		98
54) cis-1,3-Dichloropropene	8.354	75	12702	4.820	ug/l		90
55) 1,1,2-Trichloroethane	9.140	97	8113	5.453	ug/l		91
56) Ethyl methacrylate	9.104	69	10320	4.713	ug/l		94
57) 1,3-Dichloropropane	9.293	76	13087	5.112	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.232	63	20764	19.525	ug/l		98
59) 2-Hexanone	9.415	43	30949	25.896	ug/l		96
60) Dibromochloromethane	9.506	129	10082	5.028	ug/l		99
61) 1,2-Dibromoethane	9.592	107	8079	5.075	ug/l		100
64) Tetrachloroethene	9.256	164	8020	5.341	ug/l		92
65) Chlorobenzene	10.061	112	23873	5.236	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.146	131	8450	5.012	ug/l		98
67) Ethyl Benzene	10.177	91	39121	5.044	ug/l		96
68) m/p-Xylenes	10.287	106	30310	10.586	ug/l		97
69) o-Xylene	10.628	106	14262	5.128	ug/l		98
70) Styrene	10.640	104	24289	5.138	ug/l		98
71) Bromoform	10.780	173	6766	5.031	ug/l	#	96
73) Isopropylbenzene	10.945	105	37935	5.082	ug/l		99
74) N-amyl acetate	10.829	43	12188	4.544	ug/l		97
75) 1,1,2,2-Tetrachloroethane	11.195	83	10324	4.992	ug/l		98
76) 1,2,3-Trichloropropane	11.225	75	8134m	4.889	ug/l		
77) Bromobenzene	11.183	156	9508	5.027	ug/l		94
78) n-propylbenzene	11.286	91	44189	5.097	ug/l		99
79) 2-Chlorotoluene	11.347	91	26627	5.032	ug/l		98
80) 1,3,5-Trimethylbenzene	11.433	105	30618	4.910	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	3038	4.387	ug/l		96
82) 4-Chlorotoluene	11.439	91	31357	5.017	ug/l		97
83) tert-Butylbenzene	11.695	119	32297	5.086	ug/l		96
84) 1,2,4-Trimethylbenzene	11.731	105	31709	5.129	ug/l		100
85) sec-Butylbenzene	11.872	105	39113	5.118	ug/l		99
86) p-Isopropyltoluene	11.994	119	34155	5.185	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	18546	5.256	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	18787	5.081	ug/l		91
89) n-Butylbenzene	12.317	91	30409	5.069	ug/l		99
90) Hexachloroethane	12.518	117	6863	5.210	ug/l		98
91) 1,2-Dichlorobenzene	12.317	146	16849	5.076	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.926	75	1984	4.680	ug/l		98
93) 1,2,4-Trichlorobenzene	13.573	180	10538	4.693	ug/l		98
94) Hexachlorobutadiene	13.707	225	5113	4.948	ug/l		96
95) Naphthalene	13.756	128	26218	4.374	ug/l		98
96) 1,2,3-Trichlorobenzene	13.944	180	10040	4.906	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048236.D
Acq On : 20 Oct 2025 13:49
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 14:07:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 13:10:39 2025
Response via : Initial Calibration

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

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

ICAL Form

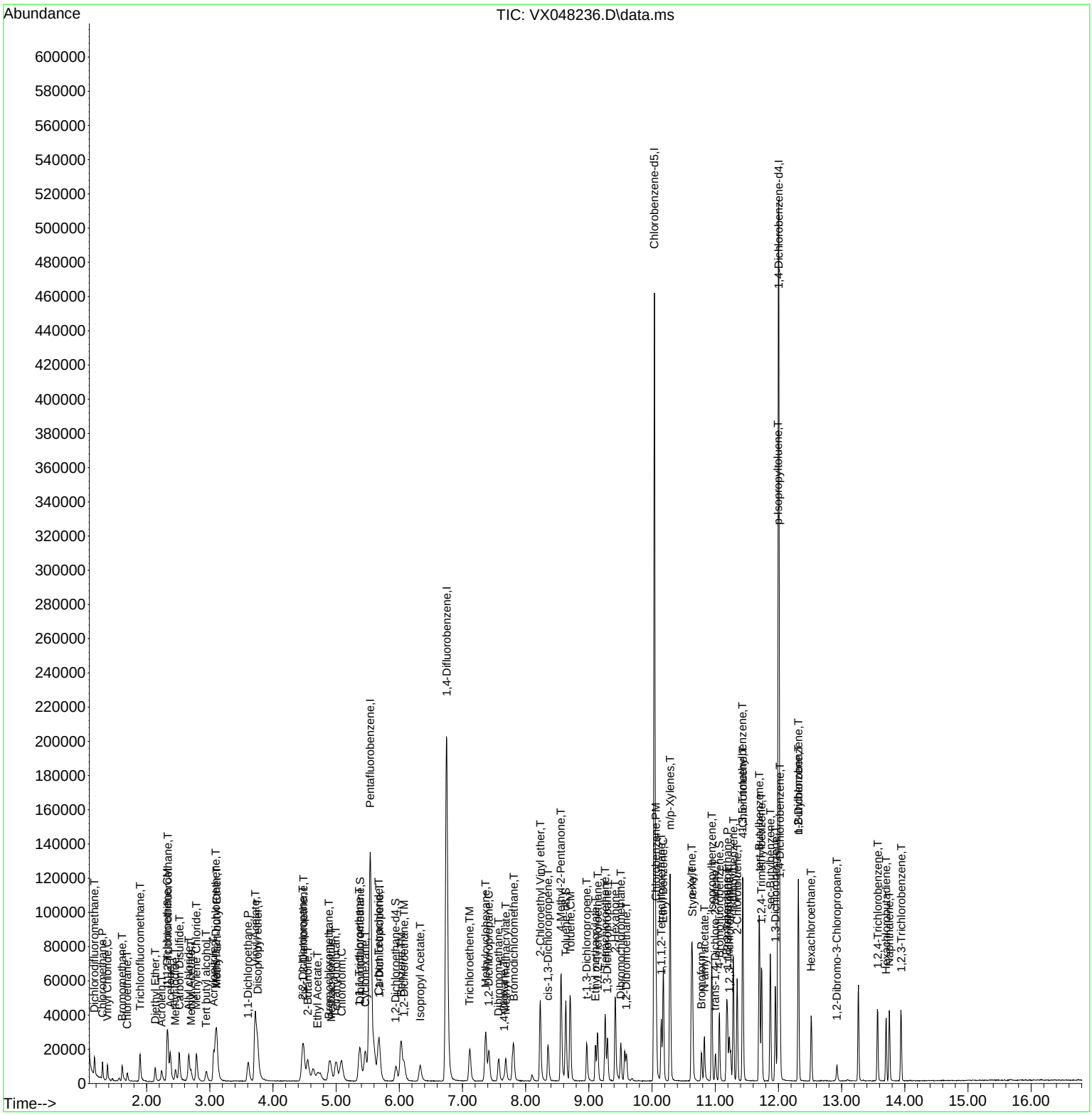
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048236.D
Acq On : 20 Oct 2025 13:49
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

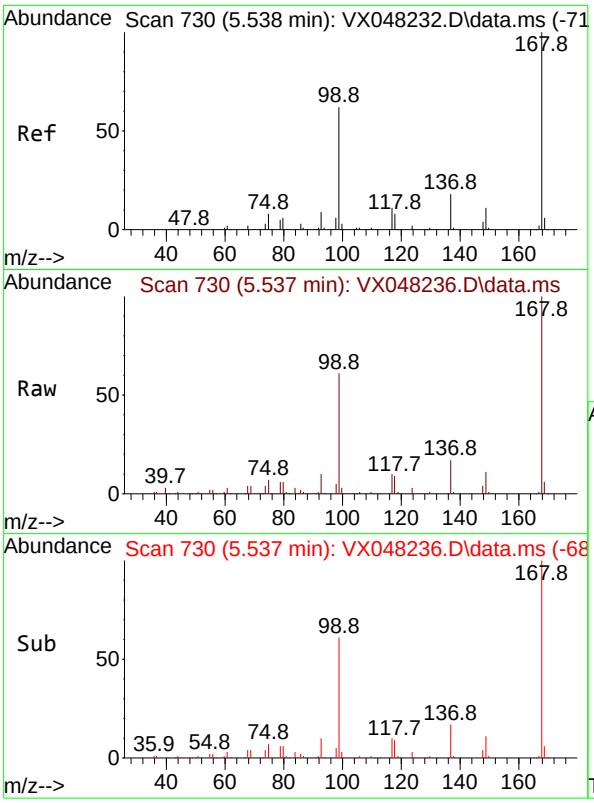
Quant Time: Oct 20 14:07:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 13:10:39 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

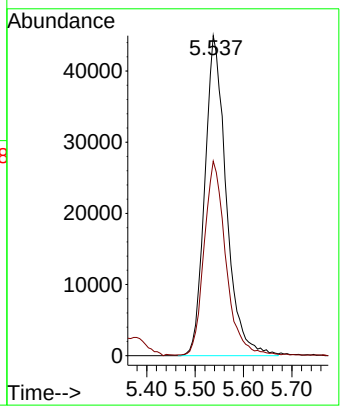




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:168 Resp: 13837

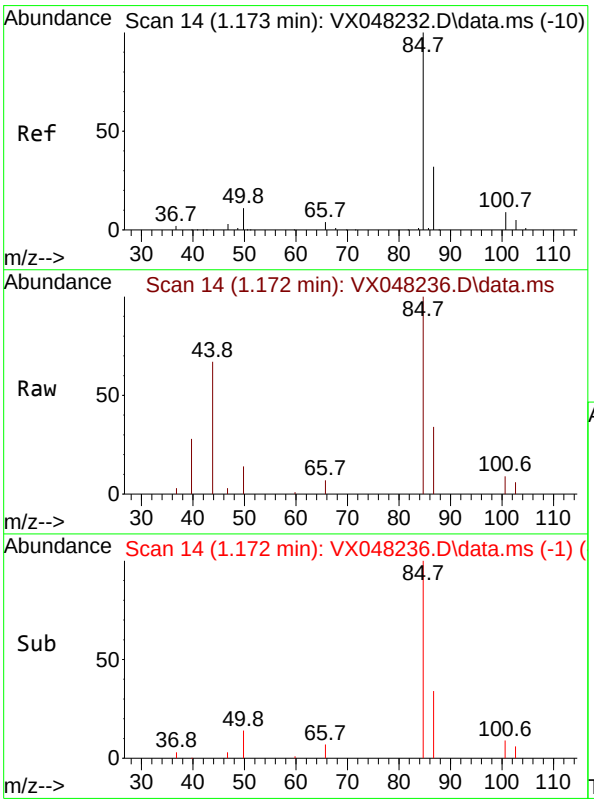
Ion	Ratio	Lower	Upper
168	100		
99	60.5	46.4	69.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

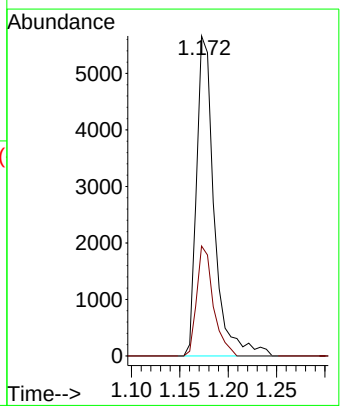
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

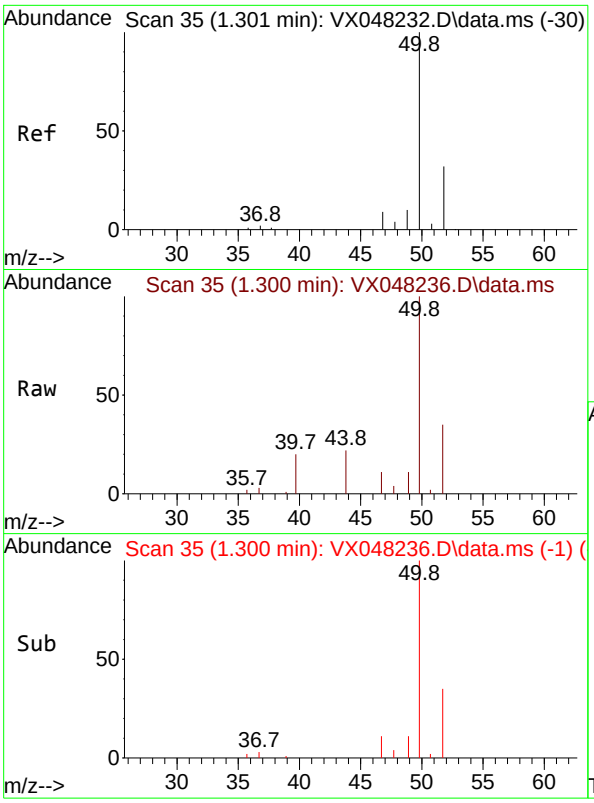


#2
Dichlorodifluoromethane
Concen: 5.194 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 85 Resp: 7219

Ion	Ratio	Lower	Upper
85	100		
87	34.3	15.3	45.9

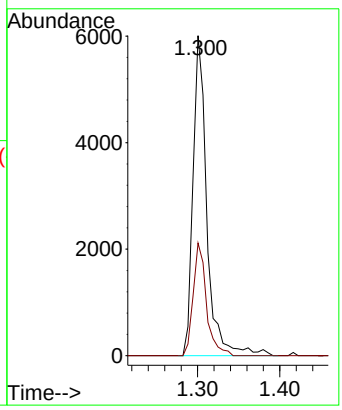




#3
Chloromethane
Concen: 5.531 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 50 Resp: 703

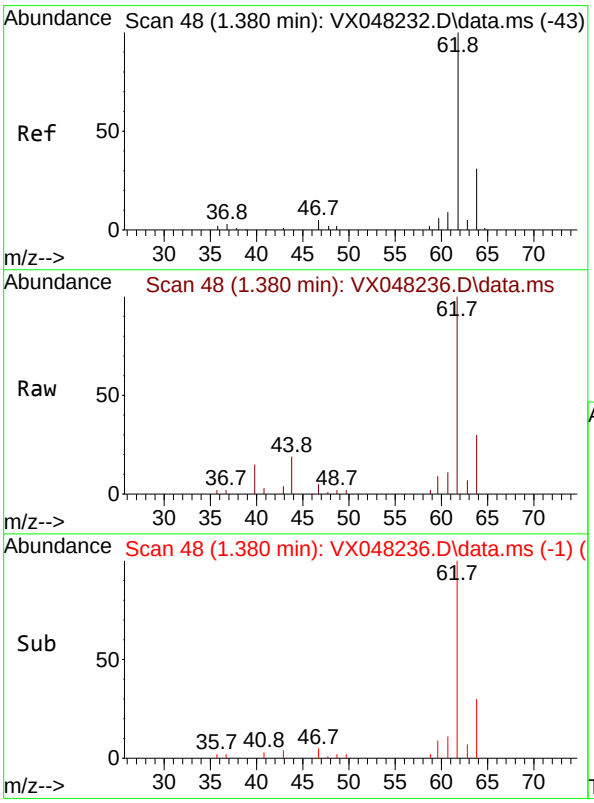
Ion	Ratio	Lower	Upper
50	100		
52	35.2	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

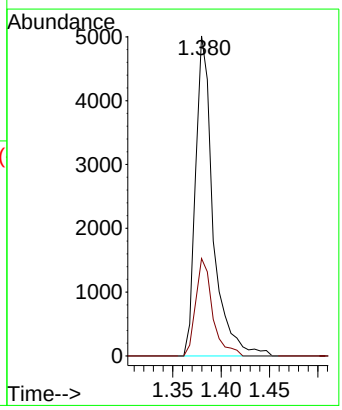
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

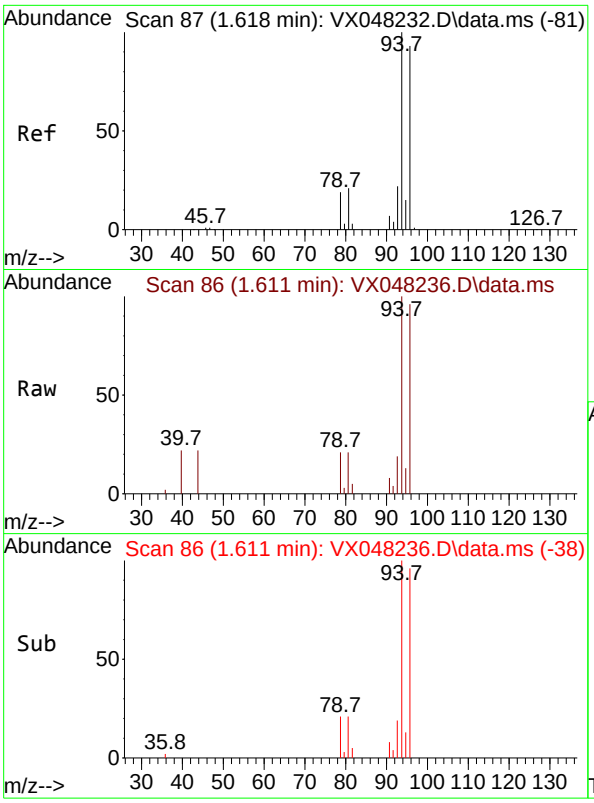


#4
Vinyl Chloride
Concen: 5.341 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 62 Resp: 6338

Ion	Ratio	Lower	Upper
62	100		
64	30.5	25.1	37.7

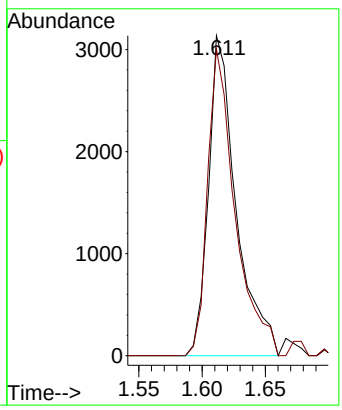




#5
Bromomethane
Concen: 5.918 ug/l
RT: 1.611 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 94 Resp: 478

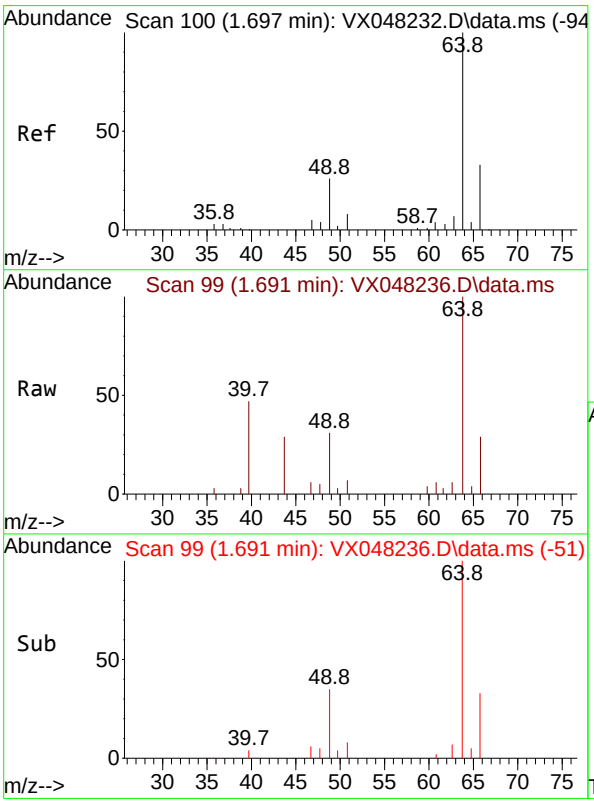
Ion	Ratio	Lower	Upper
94	100		
96	95.8	76.0	114.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

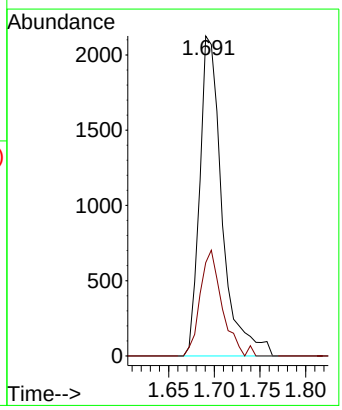
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

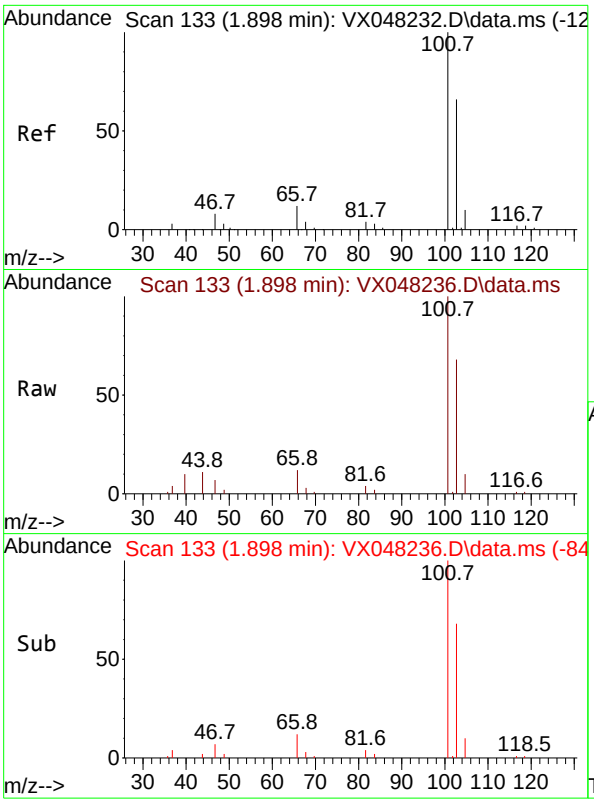


#6
Chloroethane
Concen: 5.085 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 64 Resp: 3610

Ion	Ratio	Lower	Upper
64	100		
66	29.2	23.9	35.9





#7
Trichlorofluoromethane
Concen: 5.319 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

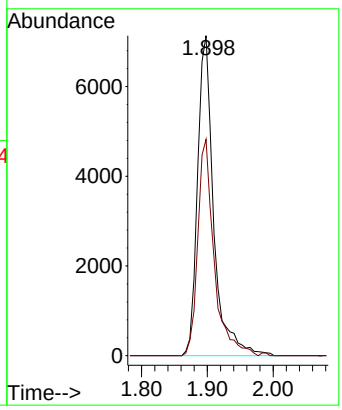
Tgt Ion:101 Resp: 1217

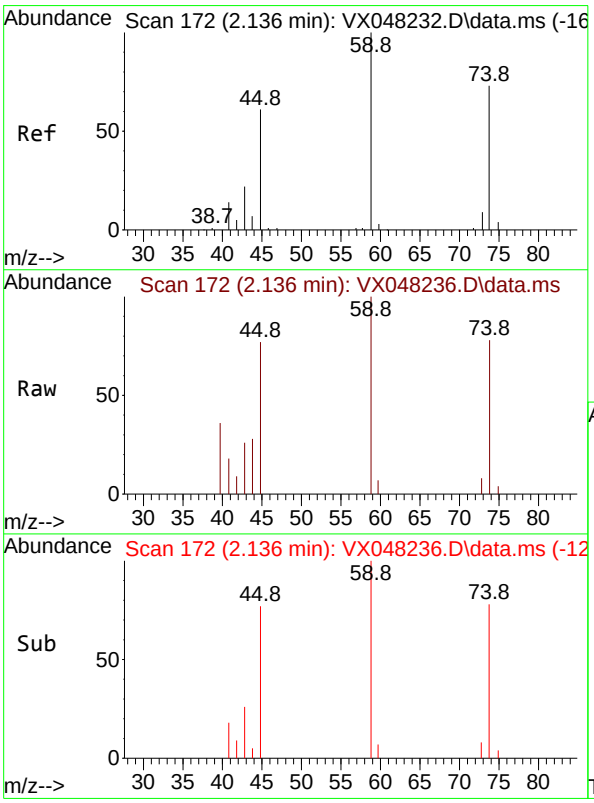
Ion	Ratio	Lower	Upper
101	100		
103	67.6	51.6	77.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

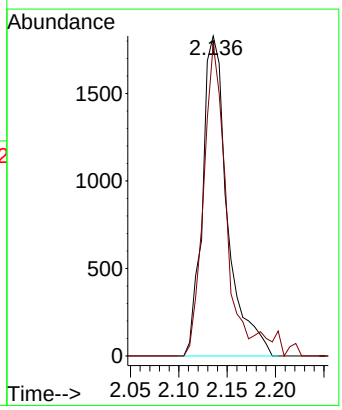


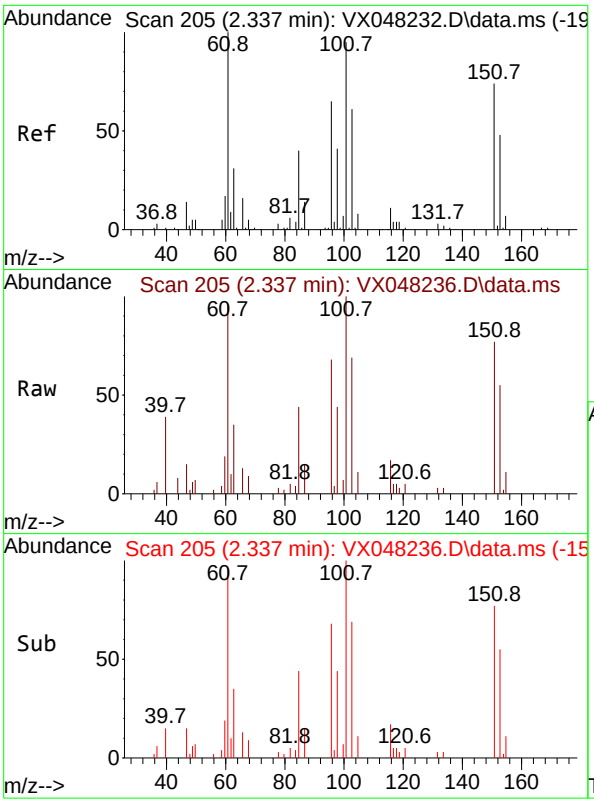


#8
Diethyl Ether
Concen: 5.035 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 74 Resp: 3283

Ion	Ratio	Lower	Upper
74	100		
45	86.7	50.0	149.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.264 ug/l
RT: 2.337 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

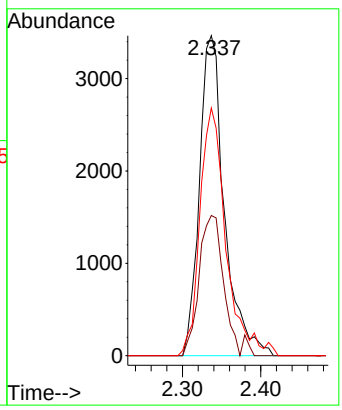
Tgt Ion:101 Resp: 765(

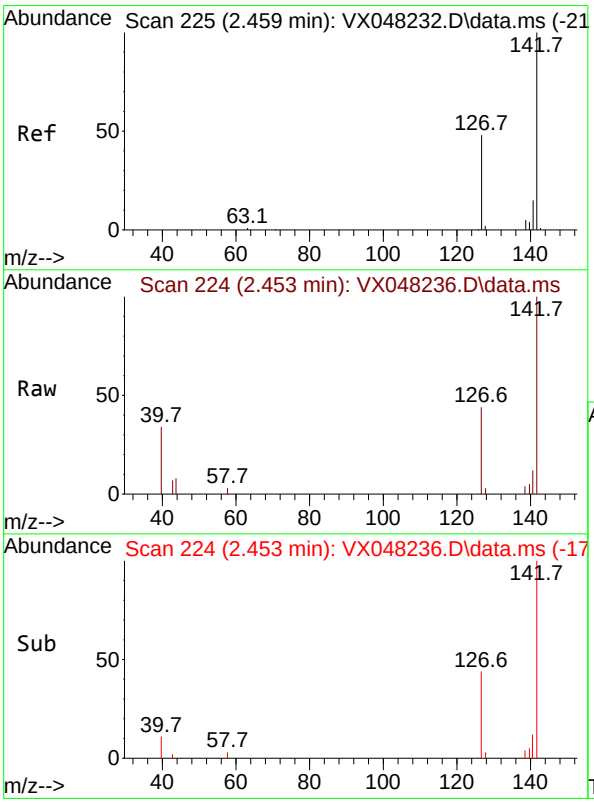
Ion	Ratio	Lower	Upper
101	100		
85	42.4	35.6	53.4
151	81.0	58.0	87.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

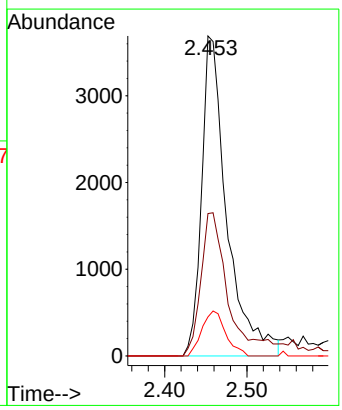


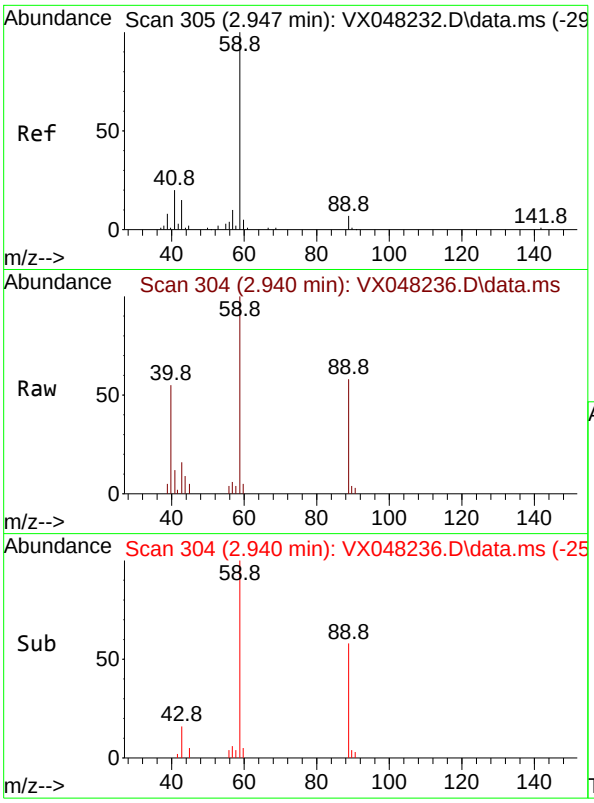


#10
Methyl Iodide
Concen: 4.284 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:142 Resp: 7871

Ion	Ratio	Lower	Upper
142	100		
127	48.9	38.5	57.7
141	13.3	11.6	17.4





#11
Tert butyl alcohol
Concen: 33.503 ug/l
RT: 2.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

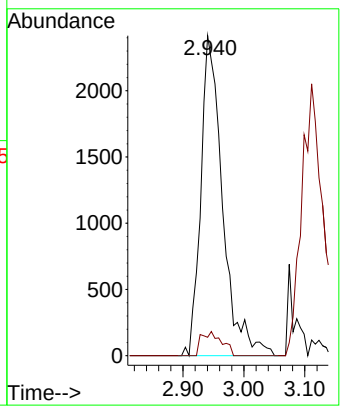
Tgt Ion: 59 Resp: 599

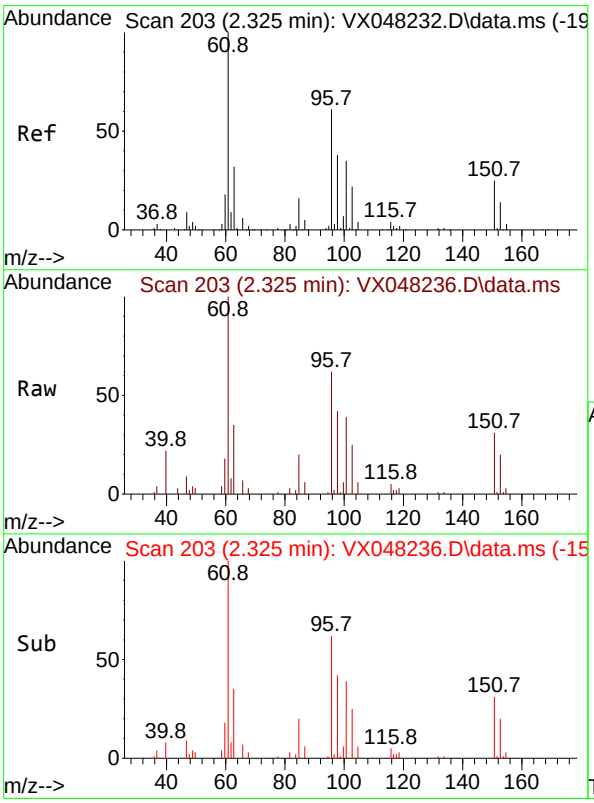
Ion	Ratio	Lower	Upper
59	100		
57	2.8	8.2	12.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

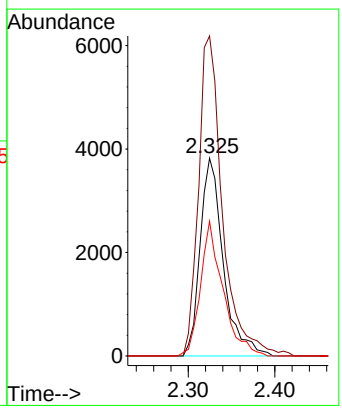


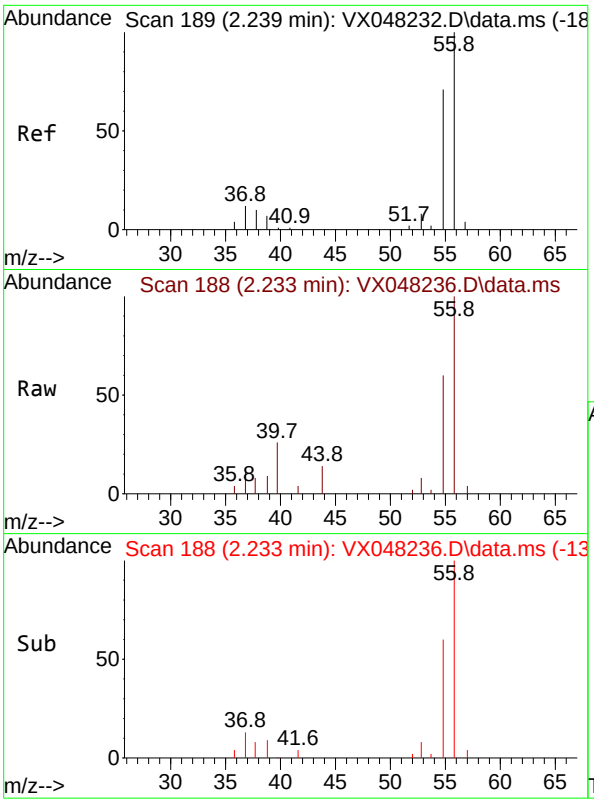


#12
1,1-Dichloroethene
Concen: 4.991 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 96 Resp: 7107

Ion	Ratio	Lower	Upper
96	100		
61	156.9	139.0	208.6
98	66.1	52.4	78.6

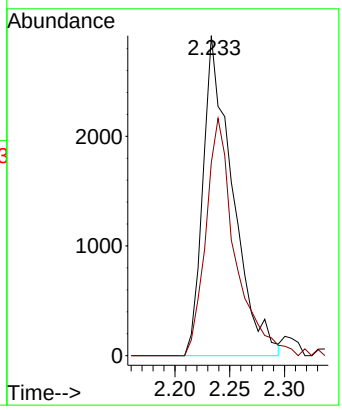




#13
Acrolein
Concen: 27.637 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 56 Resp: 545

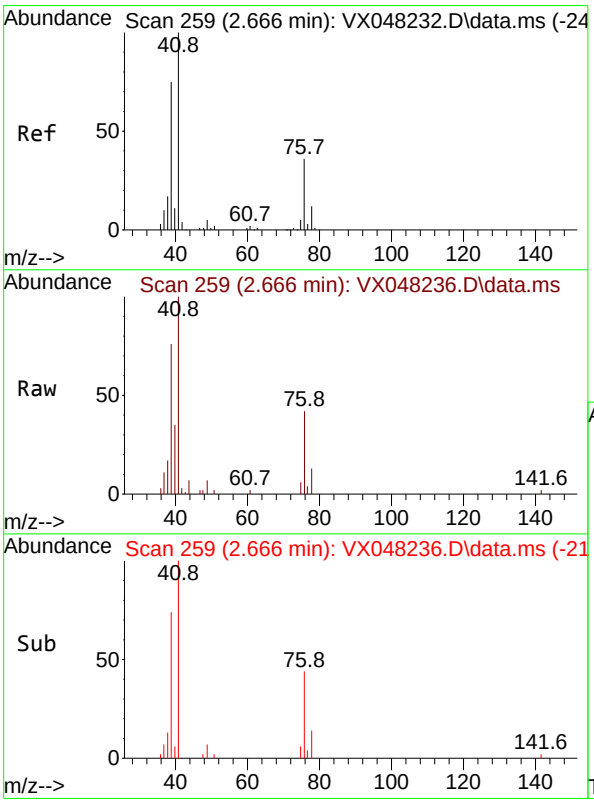
Ion	Ratio	Lower	Upper
56	100		
55	73.7	56.1	84.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

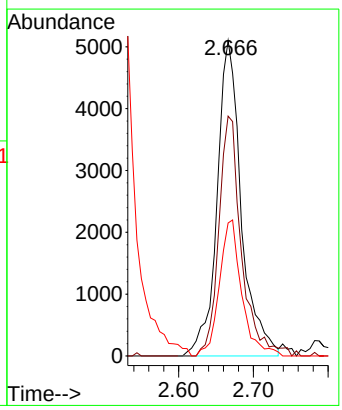
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

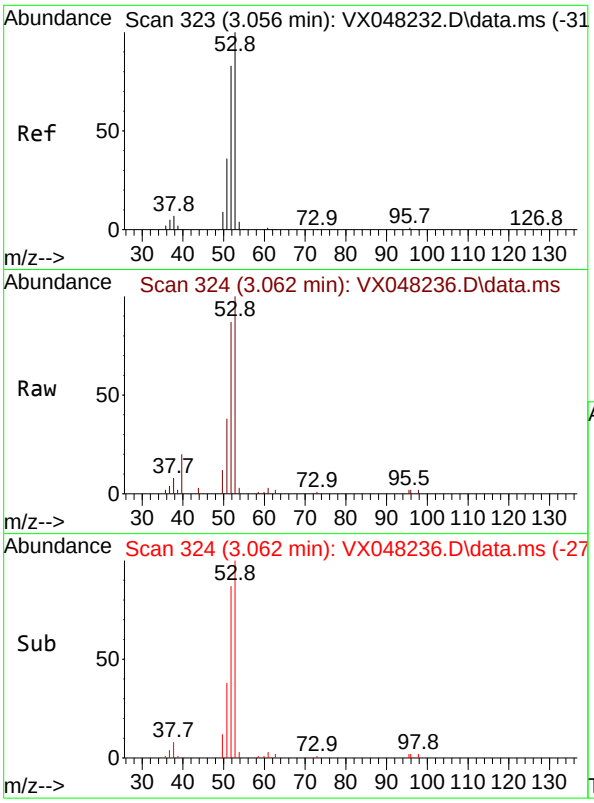


#14
Allyl chloride
Concen: 4.839 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 41 Resp: 11531

Ion	Ratio	Lower	Upper
41	100		
39	71.2	56.0	84.0
76	39.7	27.5	41.3

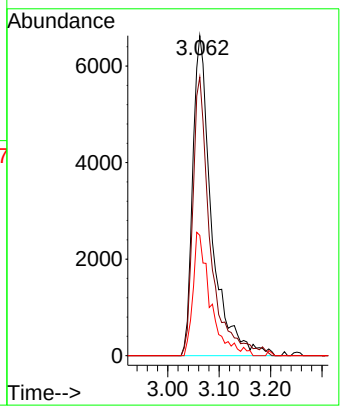




#15
Acrylonitrile
Concen: 24.912 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 53 Resp: 1698

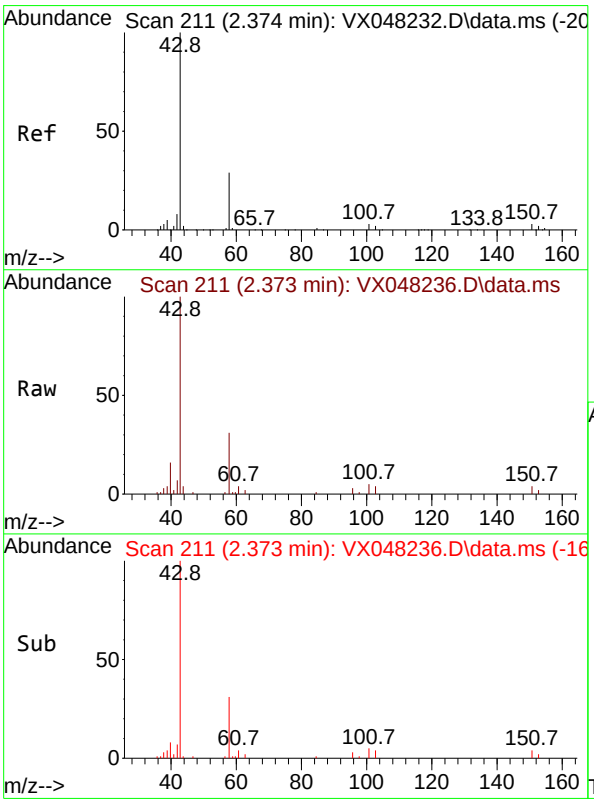
Ion	Ratio	Lower	Upper
53	100		
52	80.1	66.1	99.1
51	34.9	29.0	43.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

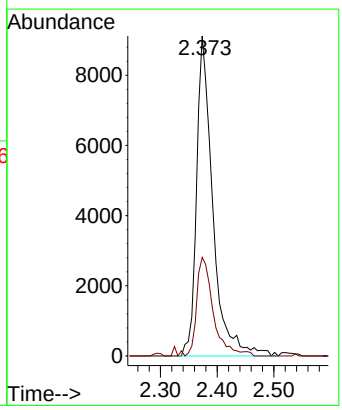
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

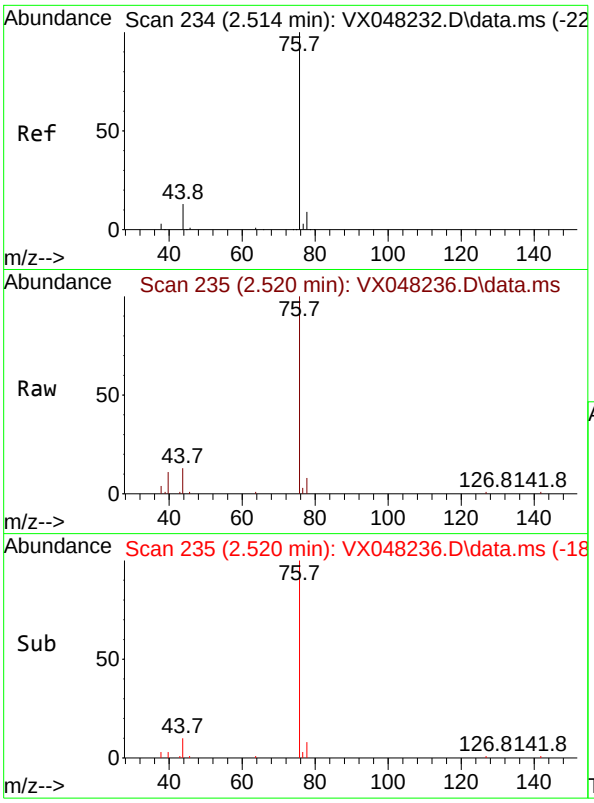


#16
Acetone
Concen: 27.636 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 43 Resp: 18141

Ion	Ratio	Lower	Upper
43	100		
58	29.5	23.4	35.2

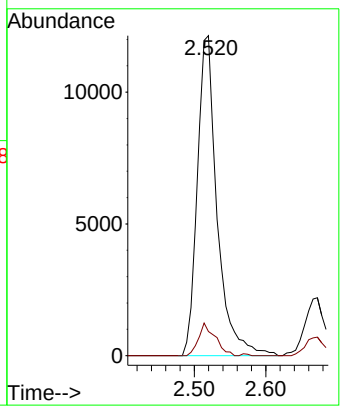




#17
Carbon Disulfide
Concen: 5.270 ug/l
RT: 2.520 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 76 Resp: 2336

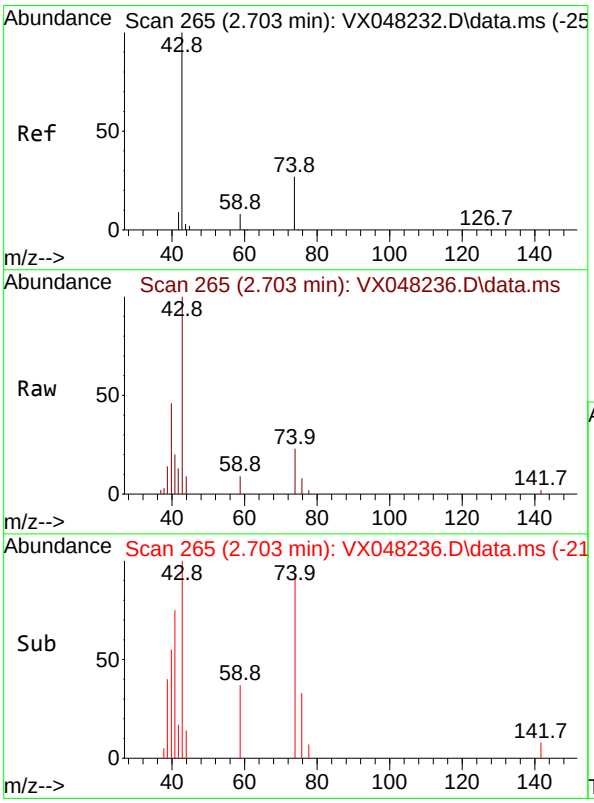
Ion	Ratio	Lower	Upper
76	100		
78	7.3	7.1	10.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

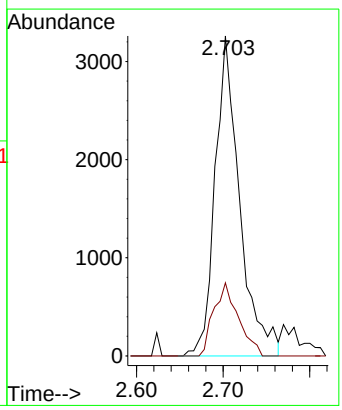
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

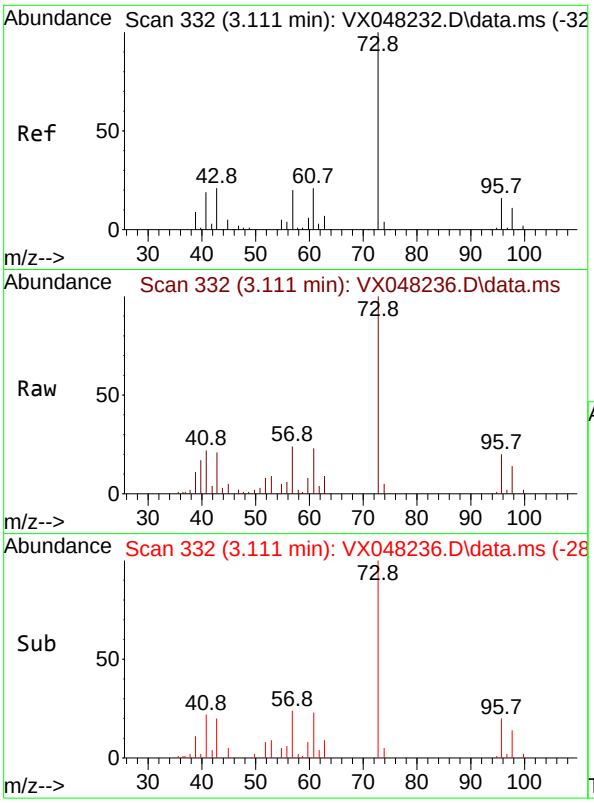


#18
Methyl Acetate
Concen: 4.639 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 43 Resp: 6418

Ion	Ratio	Lower	Upper
43	100		
74	23.0	17.5	26.3

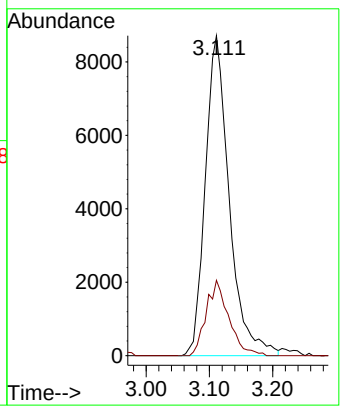




#19
Methyl tert-butyl Ether
Concen: 4.663 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 73 Resp: 2293

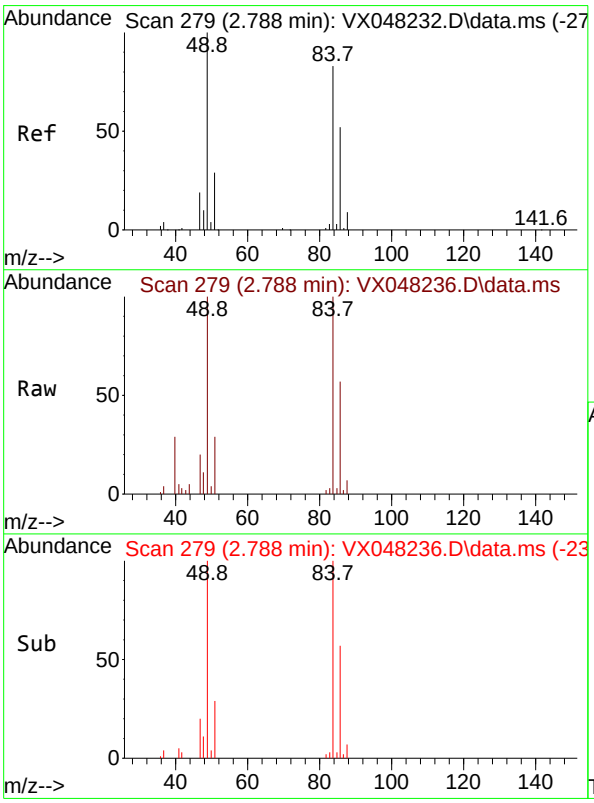
Ion	Ratio	Lower	Upper
73	100		
57	23.6	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

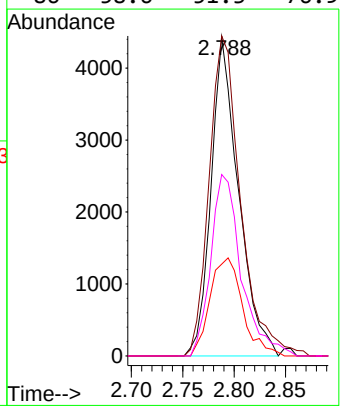
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

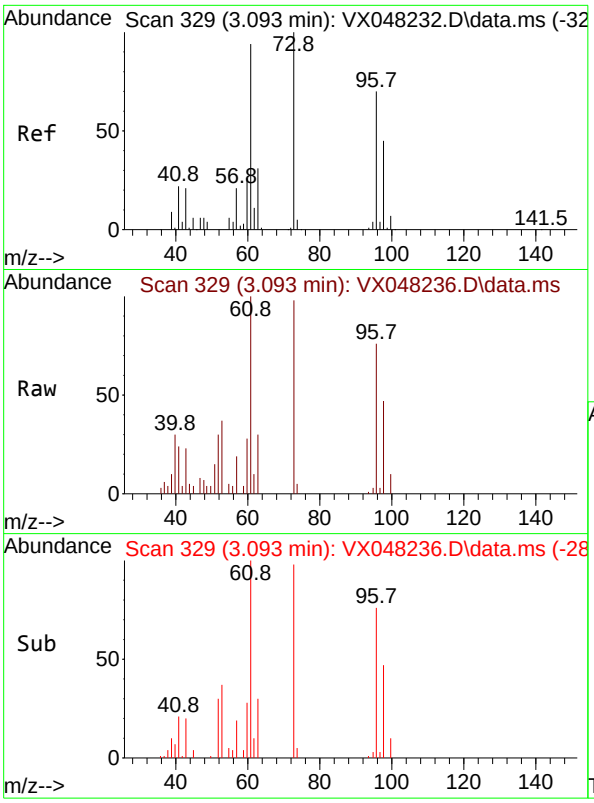


#20
Methylene Chloride
Concen: 5.163 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 84 Resp: 8228

Ion	Ratio	Lower	Upper
84	100		
49	100.4	104.1	156.1#
51	28.8	31.3	46.9#
86	58.6	51.3	76.9





#21
trans-1,2-Dichloroethene
Concen: 5.393 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

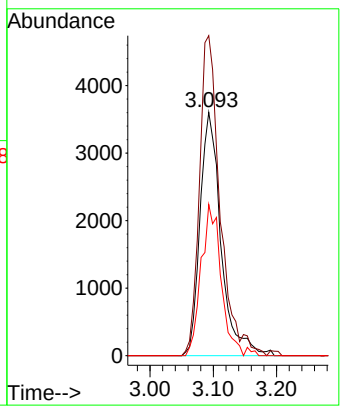
Tgt Ion: 96 Resp: 834

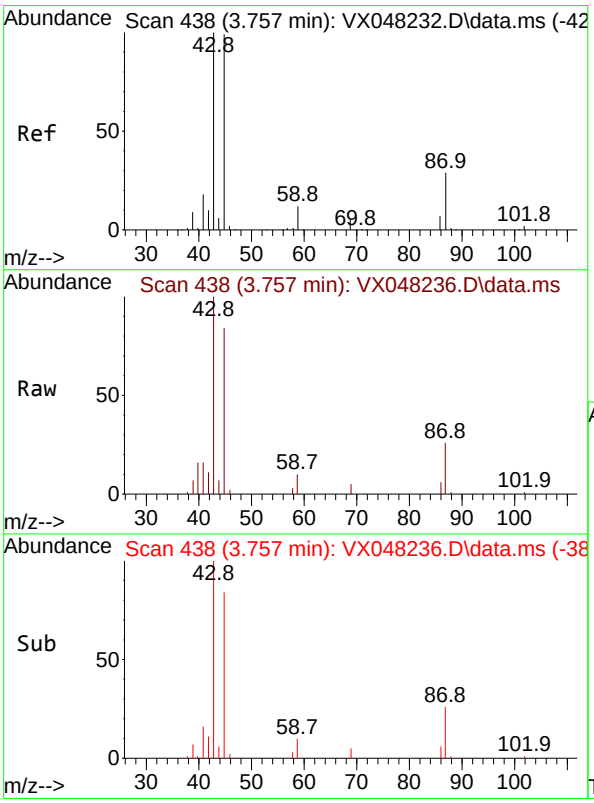
Ion	Ratio	Lower	Upper
96	100		
61	131.5	111.9	167.9
98	62.1	51.2	76.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

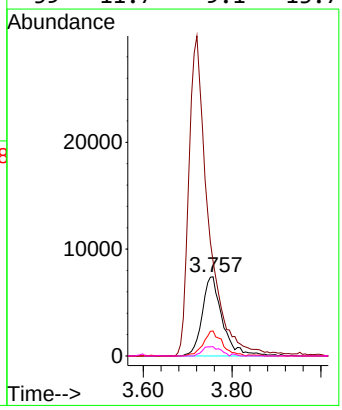


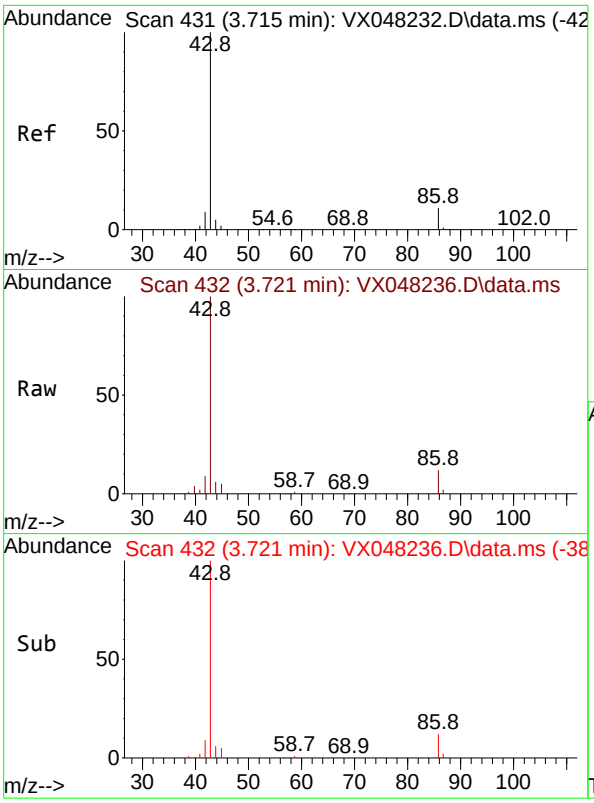


#22
Diisopropyl ether
Concen: 4.984 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 45 Resp: 23533

Ion	Ratio	Lower	Upper
45	100		
43	113.3	89.8	134.8
87	31.5	20.6	31.0#
59	11.7	9.1	13.7





#23
Vinyl Acetate
Concen: 24.336 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

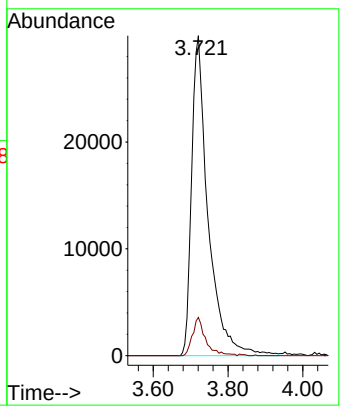
Tgt Ion: 43 Resp: 9177

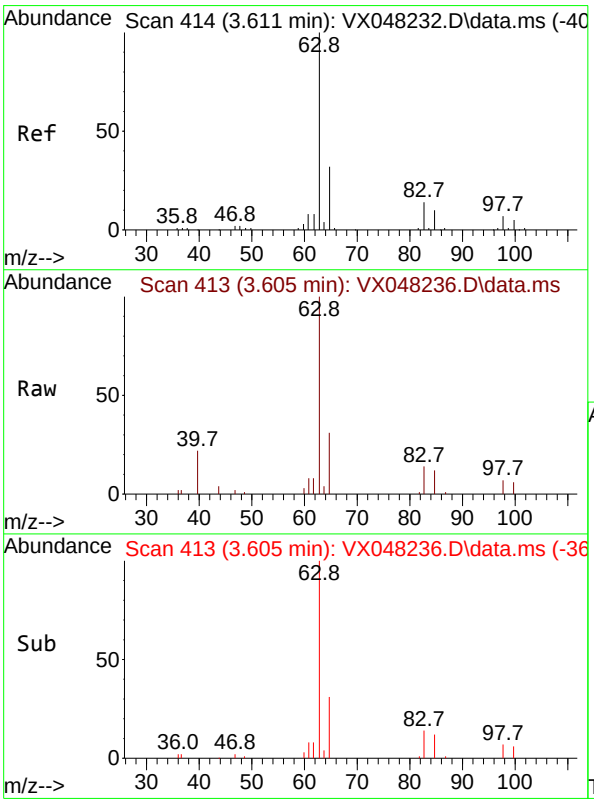
Ion	Ratio	Lower	Upper
43	100		
86	13.5	7.9	11.9#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

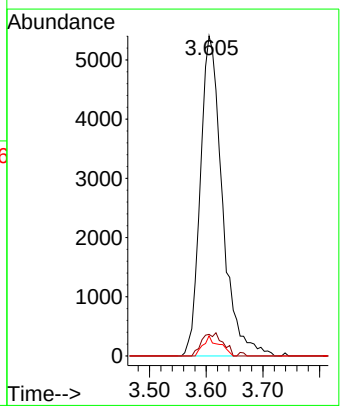


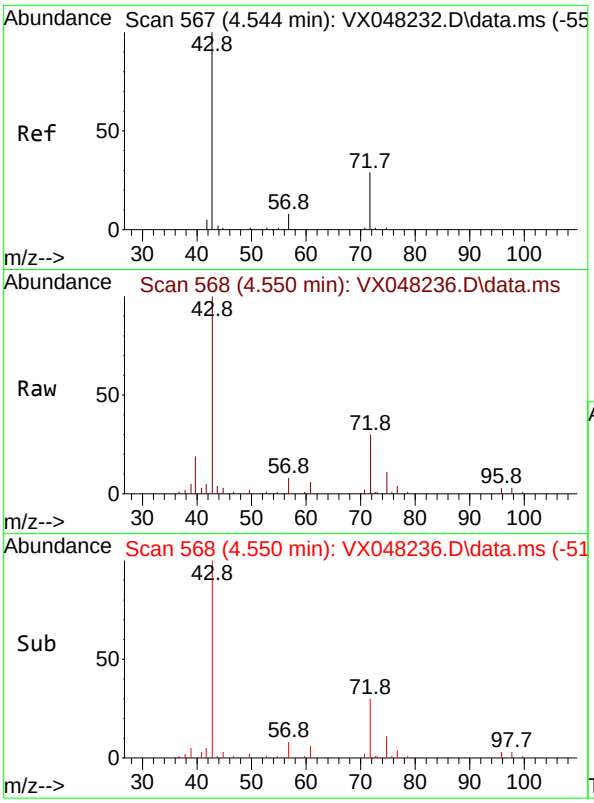


#24
1,1-Dichloroethane
Concen: 5.126 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 63 Resp: 14582

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.5	10.6
100	6.3	2.1	6.3#





#25
2-Butanone
Concen: 26.293 ug/l
RT: 4.550 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

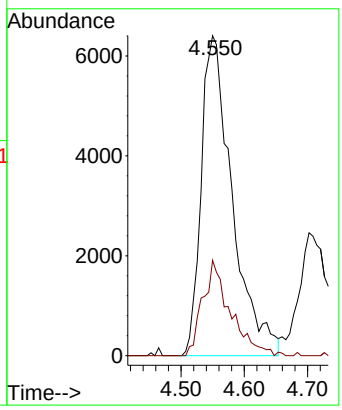
Tgt Ion: 43 Resp: 2180

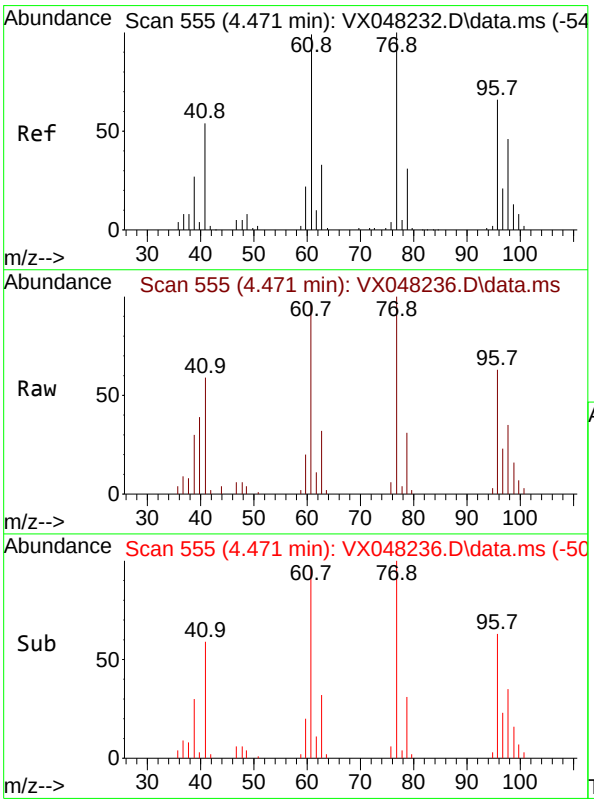
Ion	Ratio	Lower	Upper
43	100		
72	30.6	19.9	29.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

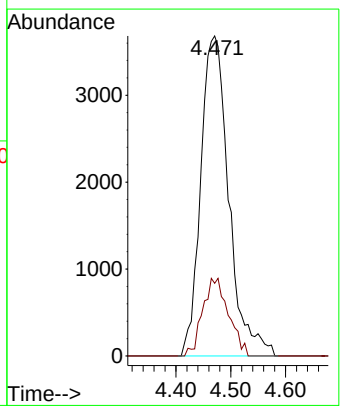


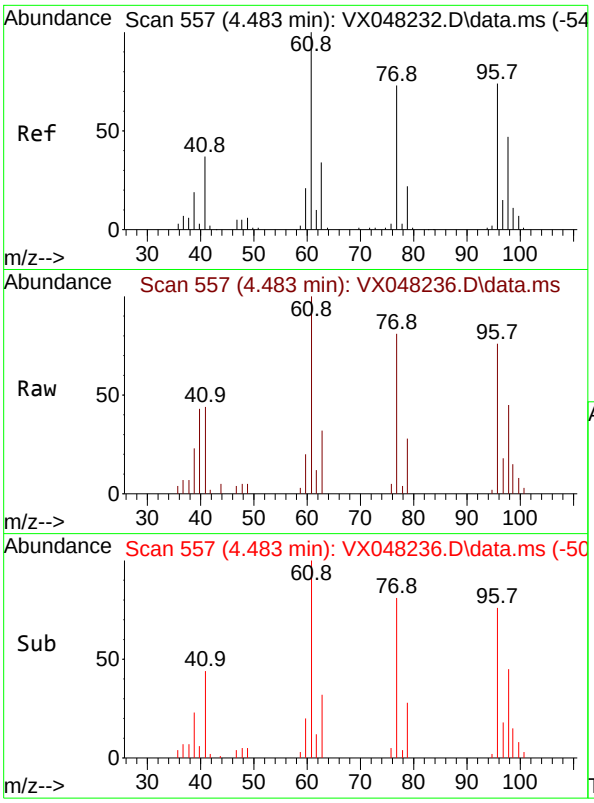


#26
2,2-Dichloropropane
Concen: 5.066 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 77 Resp: 13077

Ion	Ratio	Lower	Upper
77	100		
97	22.5	11.1	33.3

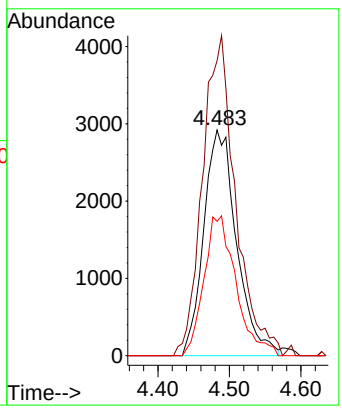




#27
cis-1,2-Dichloroethene
Concen: 5.084 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 96 Resp: 931

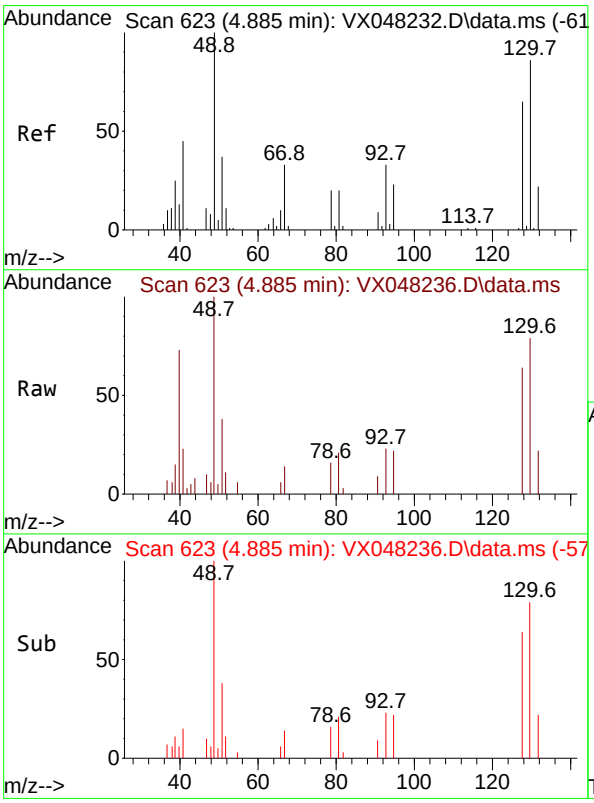
Ion	Ratio	Lower	Upper
96	100		
61	142.5	0.0	294.2
98	60.5	0.0	128.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

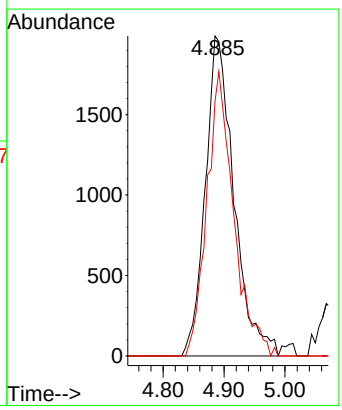
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

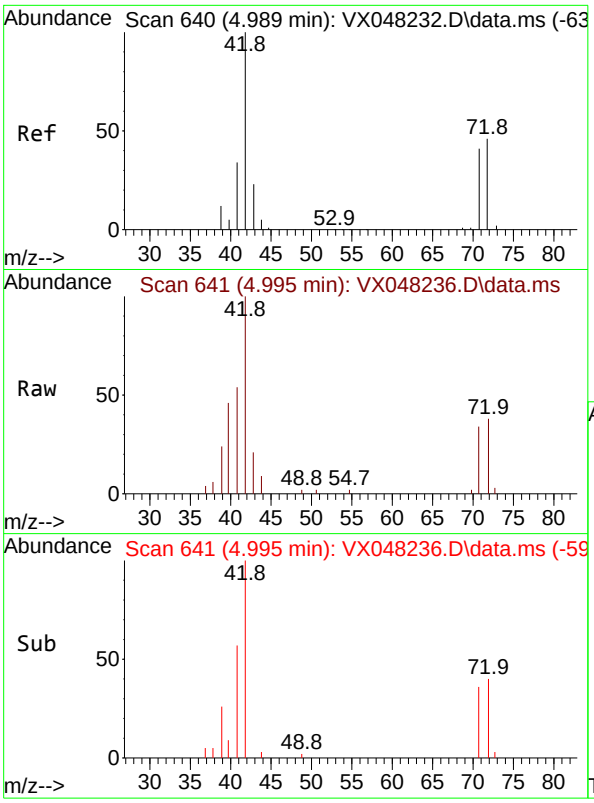


#28
Bromochloromethane
Concen: 5.474 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 49 Resp: 6488

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.4
130	83.5	59.3	88.9

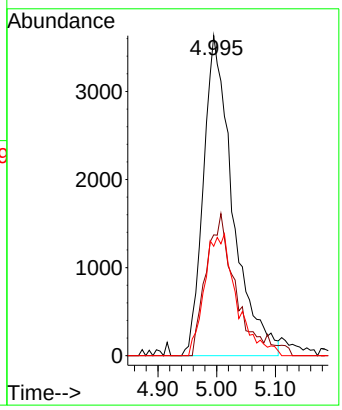




#29
Tetrahydrofuran
Concen: 25.353 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 42 Resp: 1263

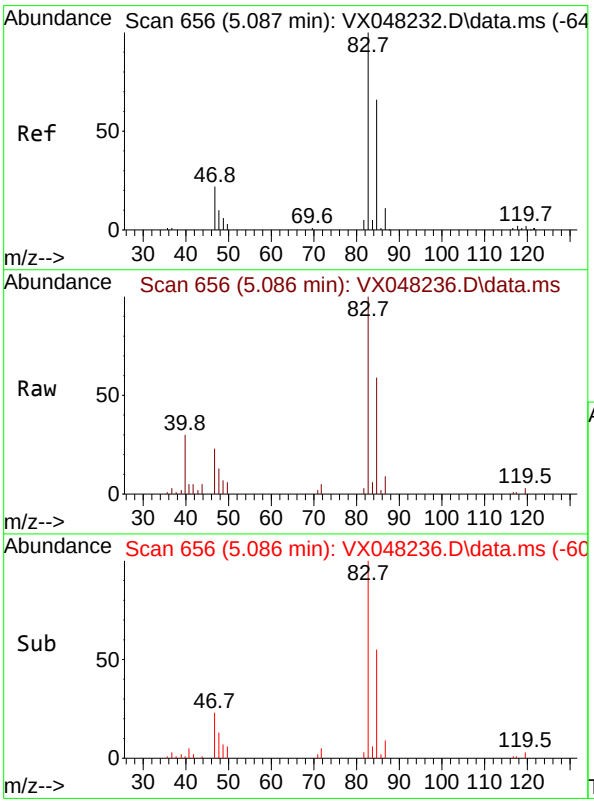
Ion	Ratio	Lower	Upper
42	100		
72	45.5	35.3	52.9
71	41.3	32.2	48.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

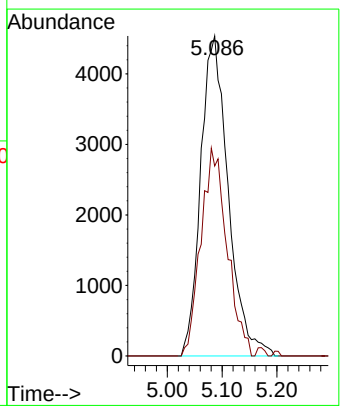
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

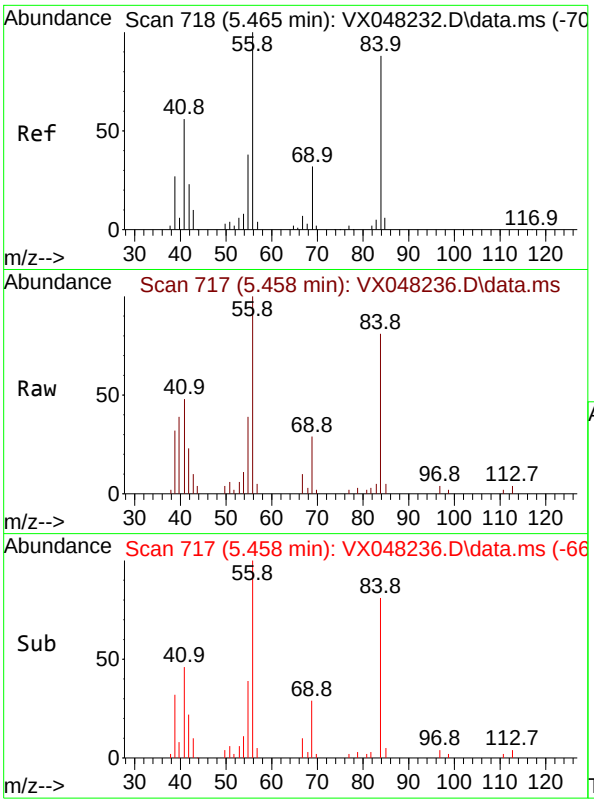


#30
Chloroform
Concen: 5.159 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 83 Resp: 15814

Ion	Ratio	Lower	Upper
83	100		
85	59.4	50.1	75.1

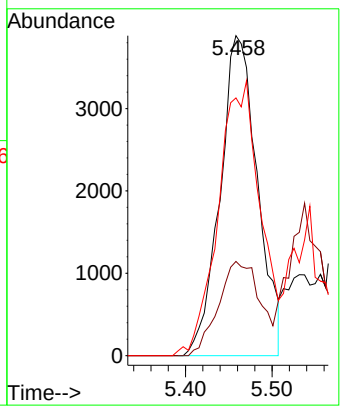




#31
Cyclohexane
Concen: 4.943 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 56 Resp: 1166

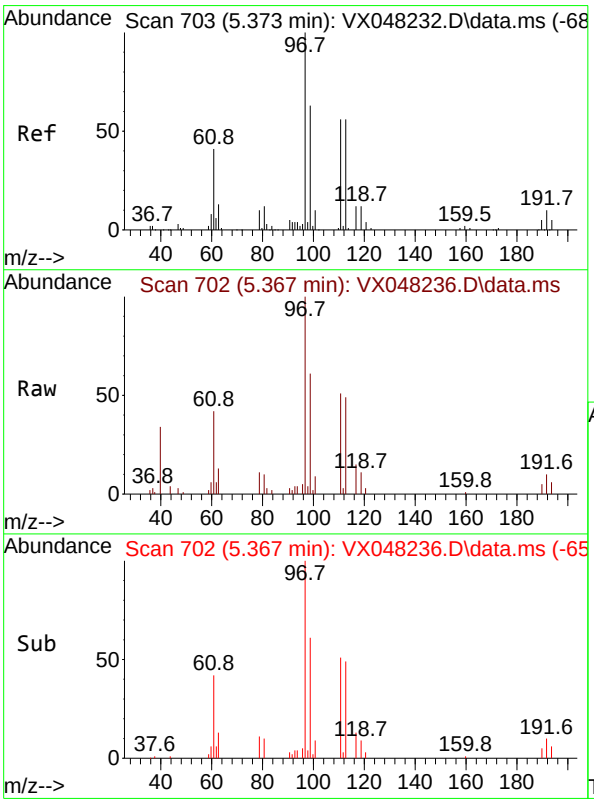
Ion	Ratio	Lower	Upper
56	100		
69	29.4	23.0	34.6
84	79.1	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

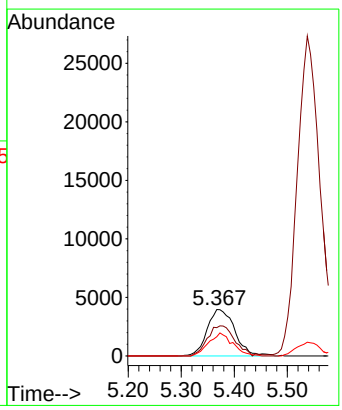
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

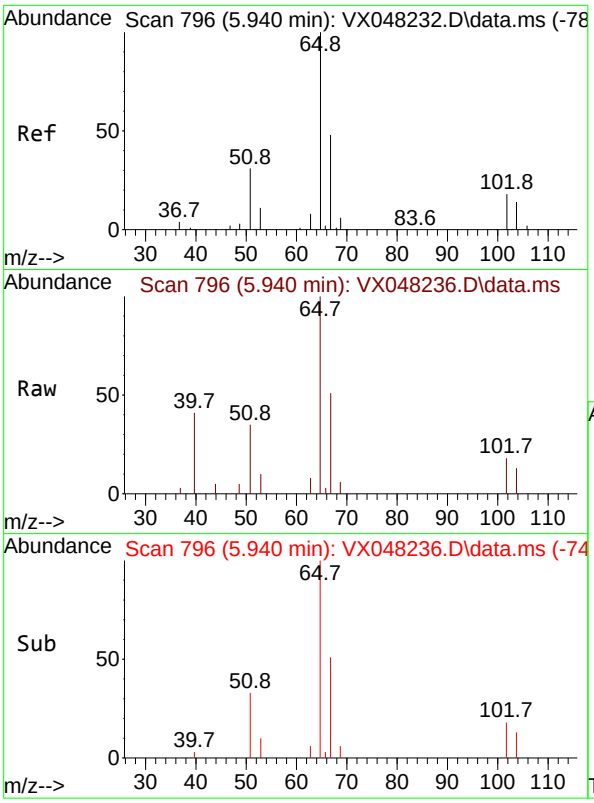


#32
1,1,1-Trichloroethane
Concen: 5.115 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 97 Resp: 14399

Ion	Ratio	Lower	Upper
97	100		
99	63.0	51.7	77.5
61	42.8	34.8	52.2

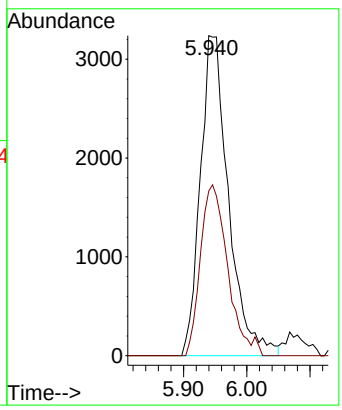




#33
1,2-Dichloroethane-d4
Concen: 4.008 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 65 Resp: 1003

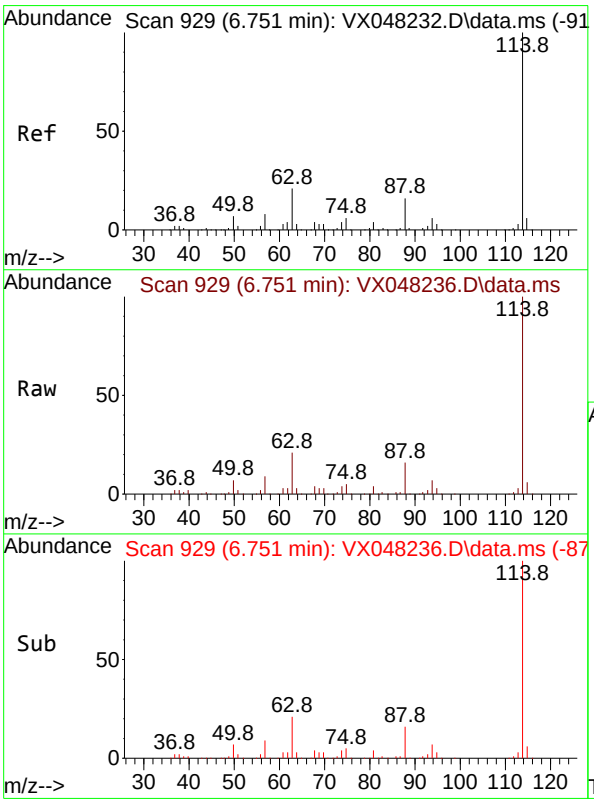
Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	105.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

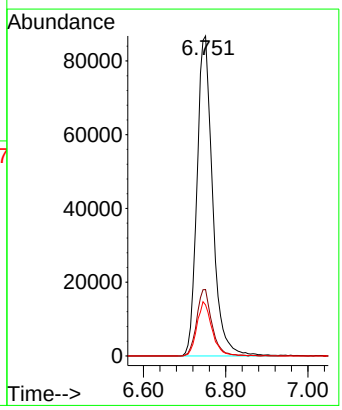
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

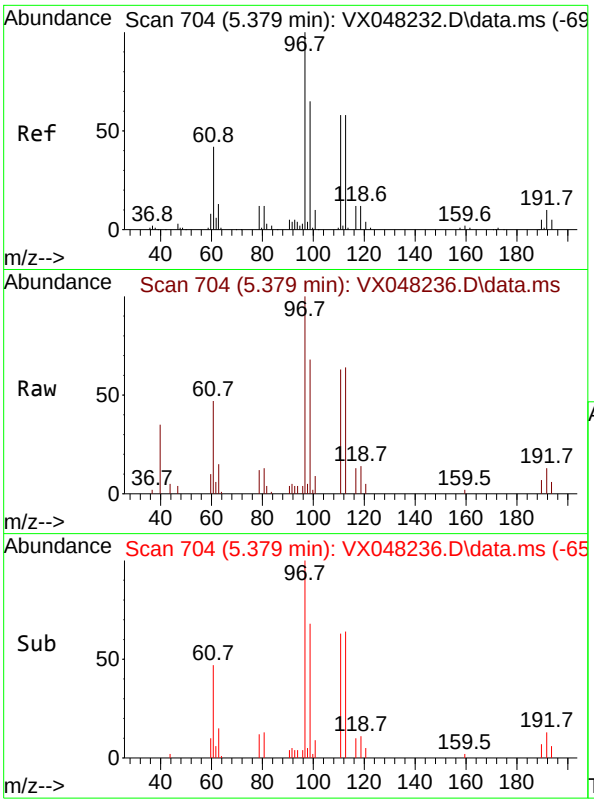


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:114 Resp: 228619

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	43.2
88	15.9	0.0	33.6

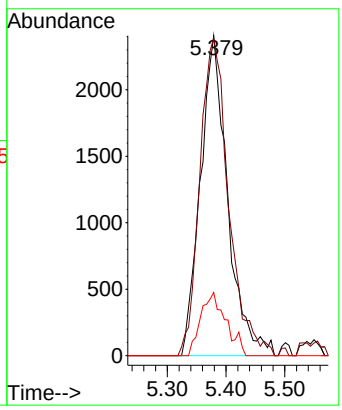




#35
Dibromofluoromethane
Concen: 3.839 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:113 Resp: 773

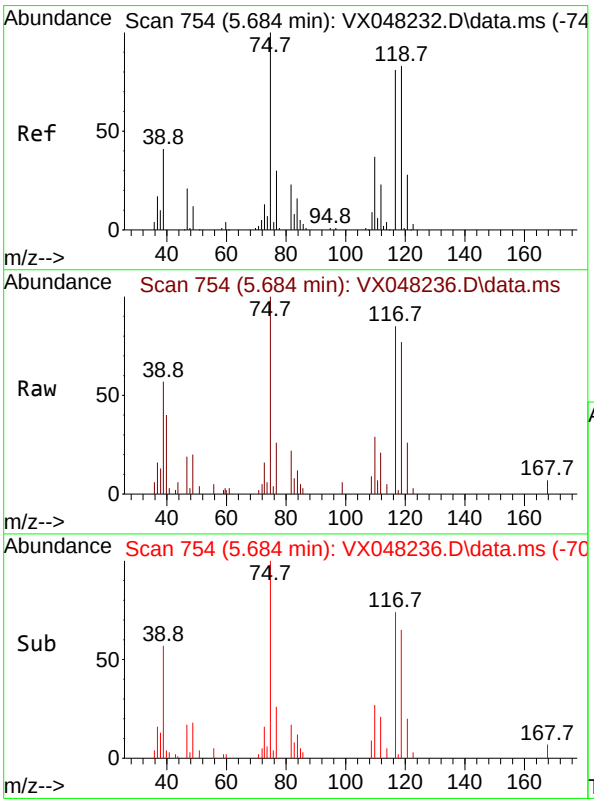
Ion	Ratio	Lower	Upper
113	100		
111	104.9	82.2	123.4
192	18.3	15.1	22.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

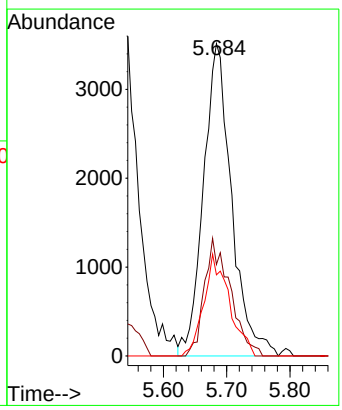
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

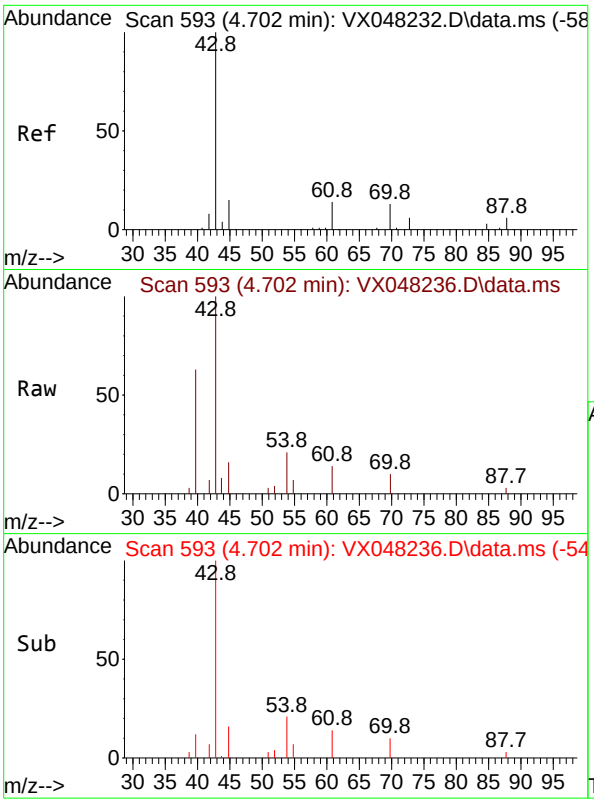


#36
1,1-Dichloropropene
Concen: 5.001 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 75 Resp: 10855

Ion	Ratio	Lower	Upper
75	100		
110	34.8	17.7	53.1
77	29.5	24.3	36.5





#37
Ethyl Acetate
Concen: 4.970 ug/l m
RT: 4.702 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

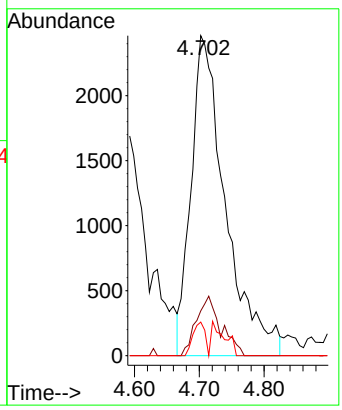
Tgt Ion: 43 Resp: 905

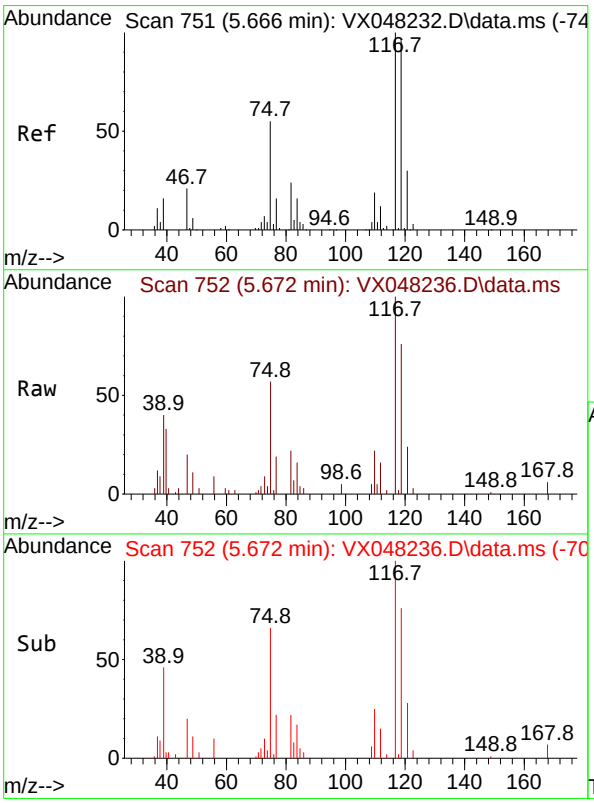
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.6	15.8#
70	3.7	7.8	11.6#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

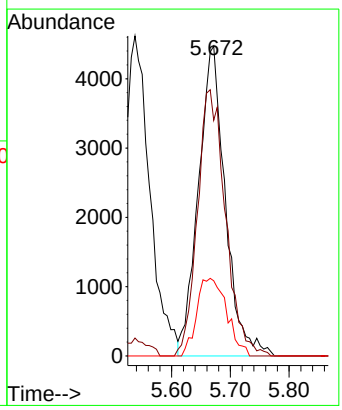


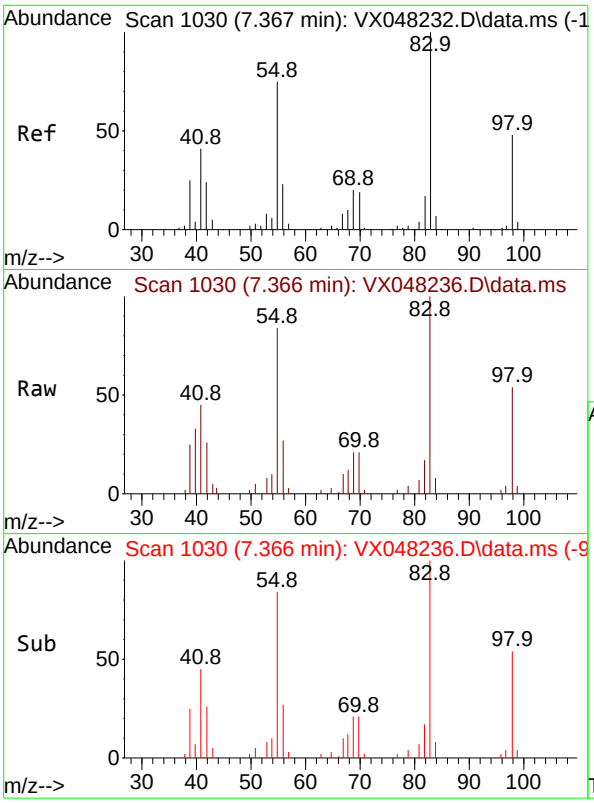


#38
Carbon Tetrachloride
Concen: 5.323 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:117 Resp: 14225

Ion	Ratio	Lower	Upper
117	100		
119	76.0	77.2	115.8#
121	24.3	24.8	37.2#

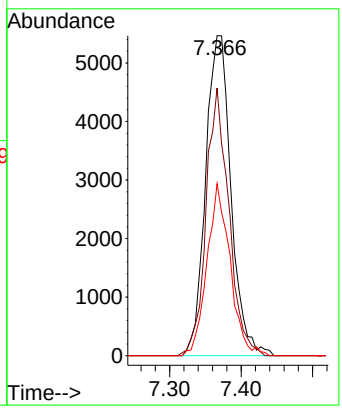




#39
Methylcyclohexane
Concen: 5.318 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 83 Resp: 1349

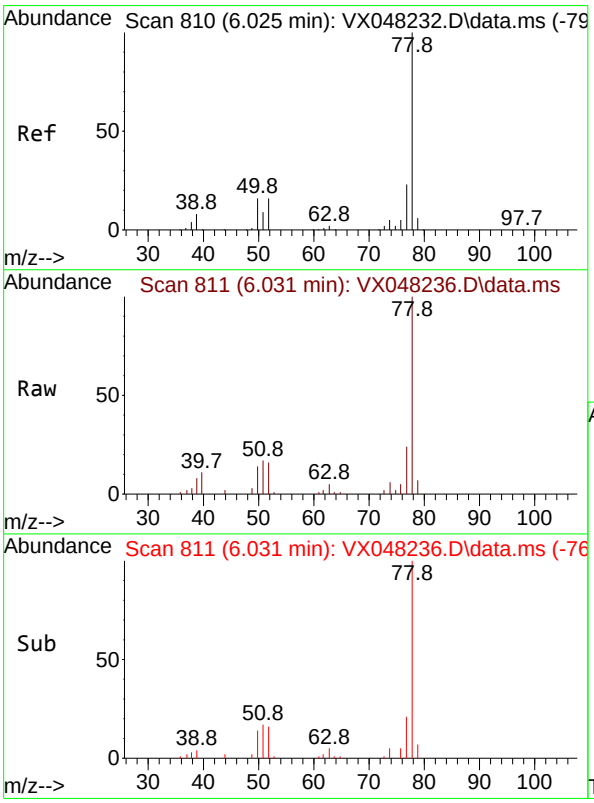
Ion	Ratio	Lower	Upper
83	100		
55	83.6	66.2	99.2
98	53.8	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

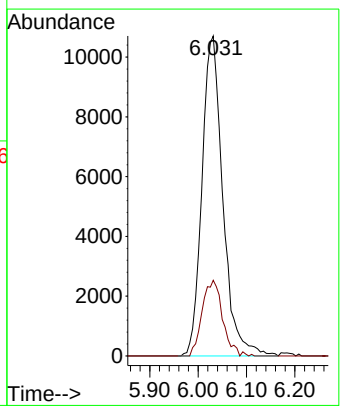
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

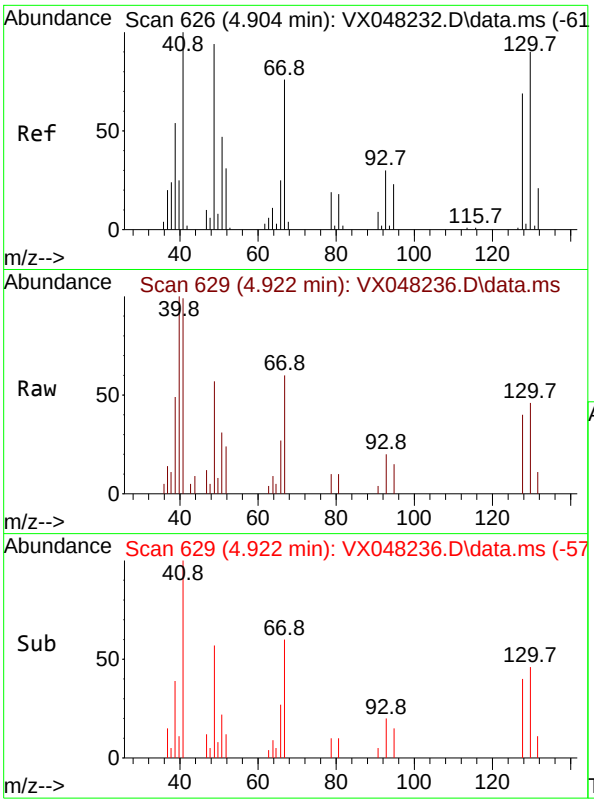


#40
Benzene
Concen: 5.103 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 78 Resp: 32115

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.3	28.9

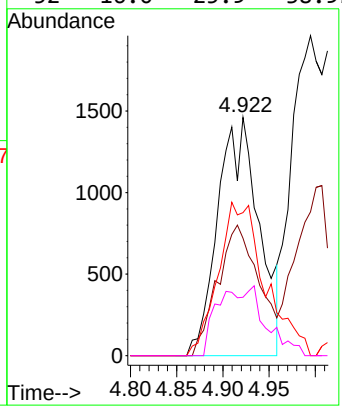




#41
Methacrylonitrile
Concen: 4.817 ug/l m
RT: 4.922 min Scan# 6
Delta R.T. 0.018 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 41 Resp: 453

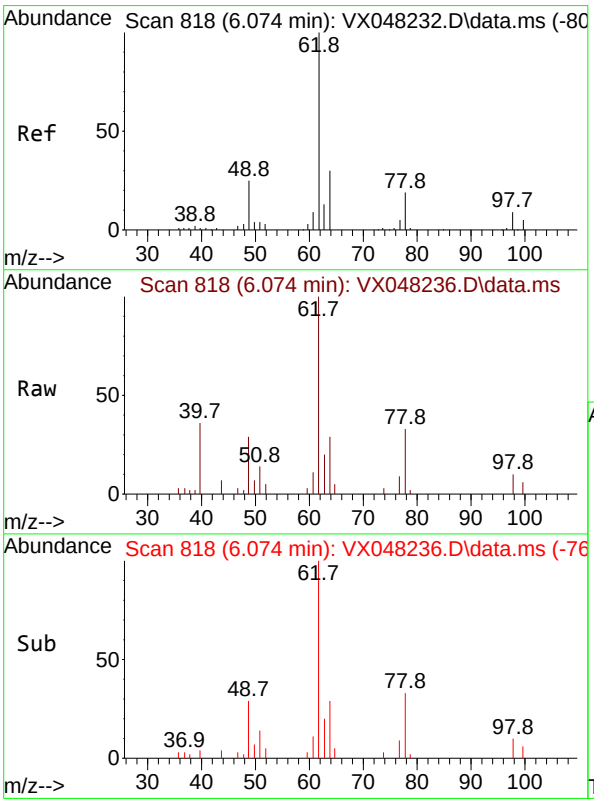
Ion	Ratio	Lower	Upper
41	100		
39	55.3	44.0	66.0
67	72.8	58.7	88.1
52	16.0	25.9	38.9#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

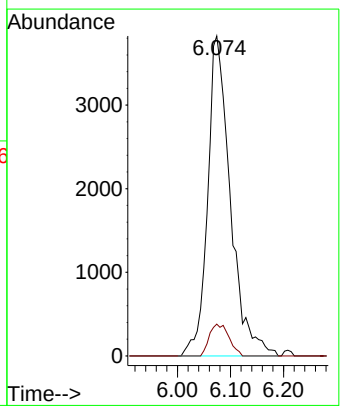
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

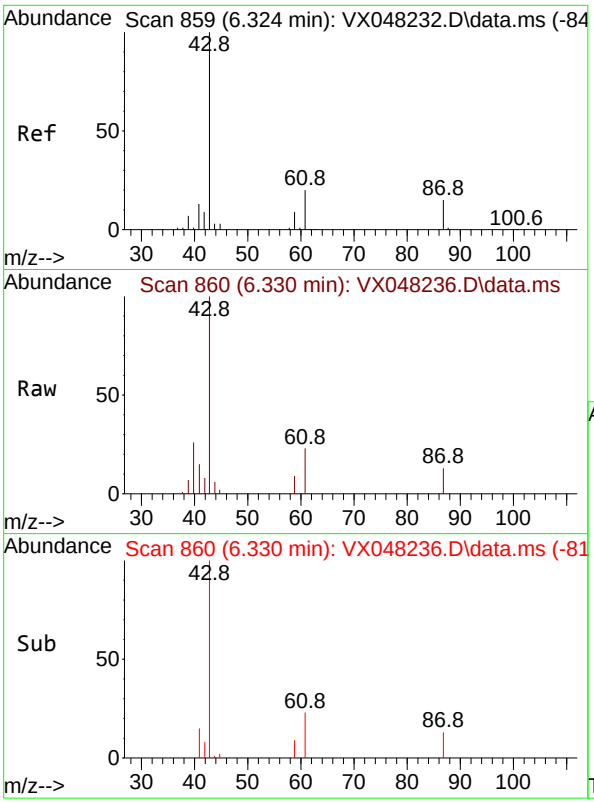


#42
1,2-Dichloroethane
Concen: 4.870 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 62 Resp: 11412

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	17.2





#43
Isopropyl Acetate
Concen: 4.656 ug/l
RT: 6.330 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

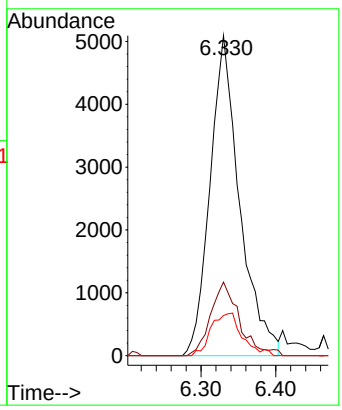
Tgt Ion: 43 Resp: 1399

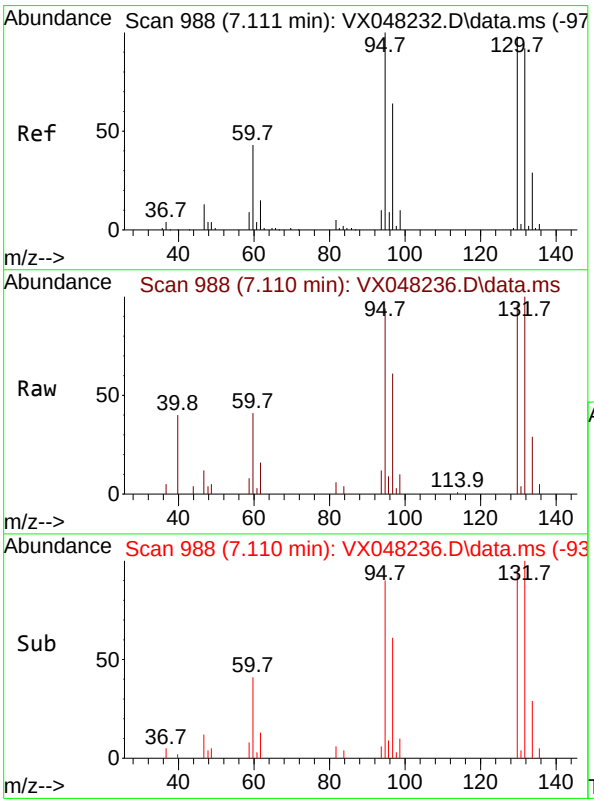
Ion	Ratio	Lower	Upper
43	100		
61	22.5	14.9	22.3
87	14.0	9.4	14.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

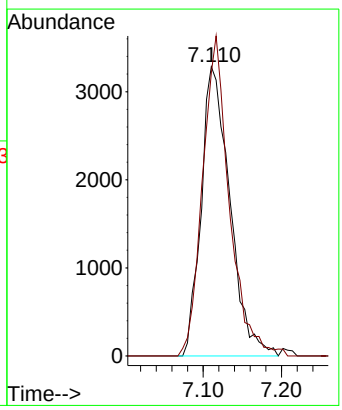


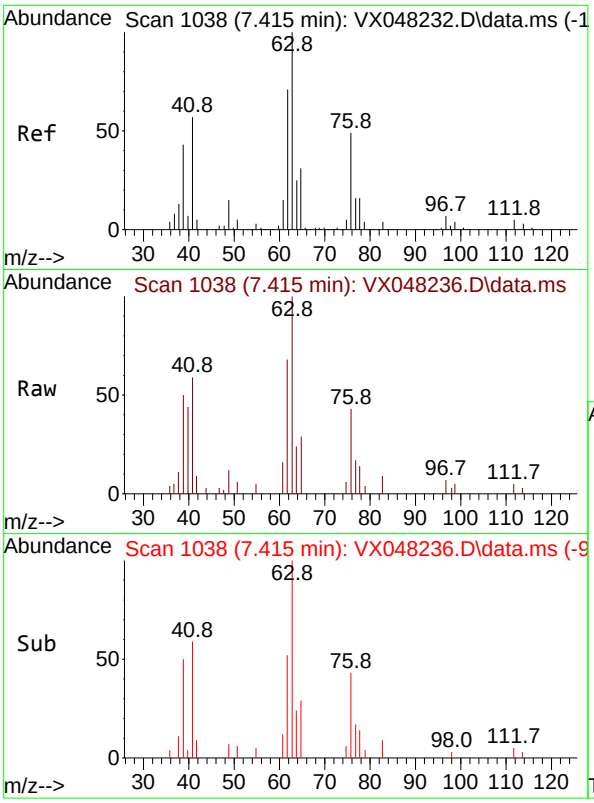


#44
Trichloroethene
Concen: 5.009 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:130 Resp: 8373

Ion	Ratio	Lower	Upper
130	100		
95	107.6	0.0	200.6





#45
1,2-Dichloropropane
Concen: 5.129 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

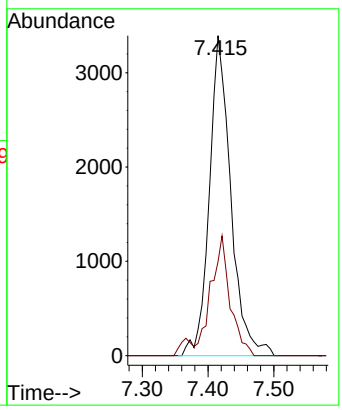
Tgt Ion: 63 Resp: 770

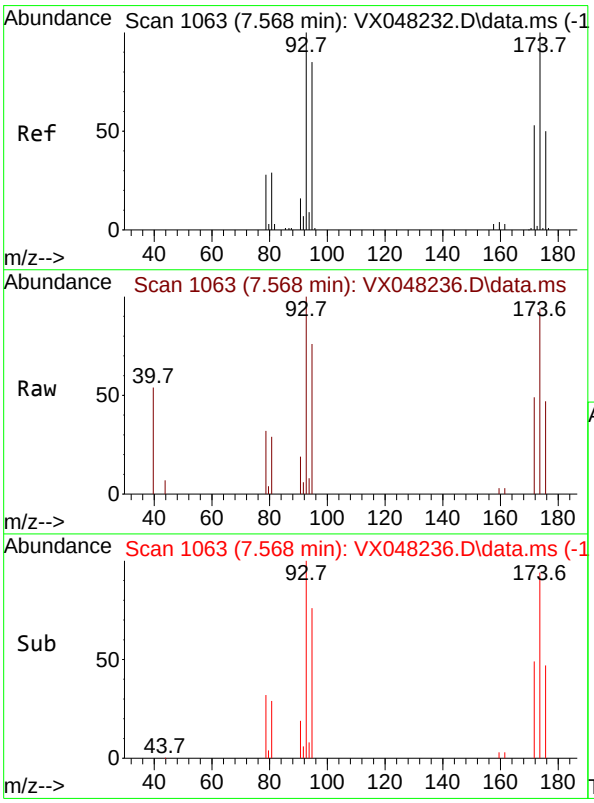
Ion	Ratio	Lower	Upper
63	100		
65	29.4	24.1	36.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

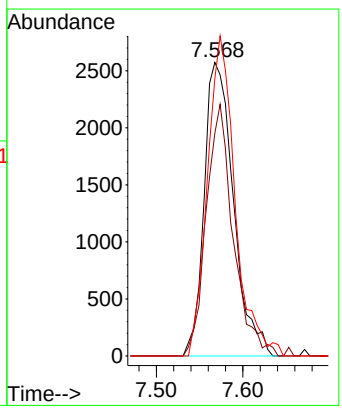


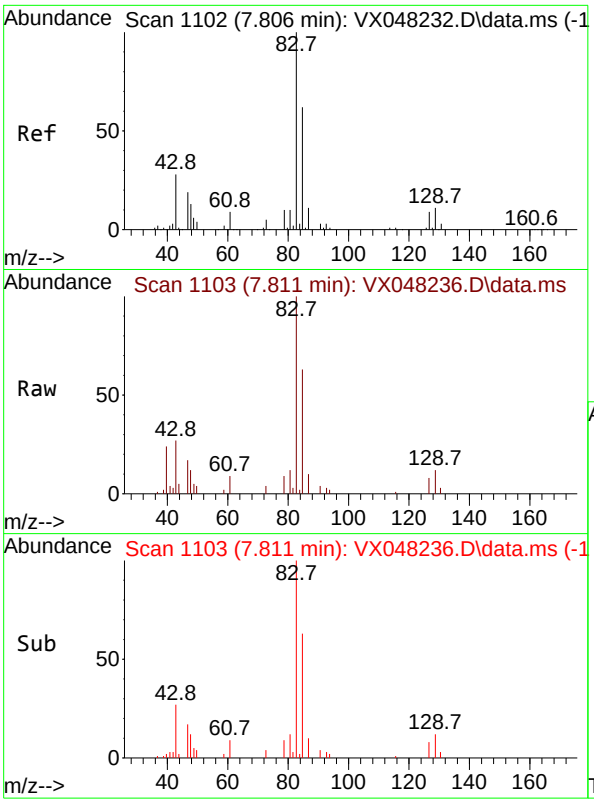


#46
Dibromomethane
Concen: 5.181 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 93 Resp: 6041

Ion	Ratio	Lower	Upper
93	100		
95	79.0	65.9	98.9
174	103.1	71.7	107.5

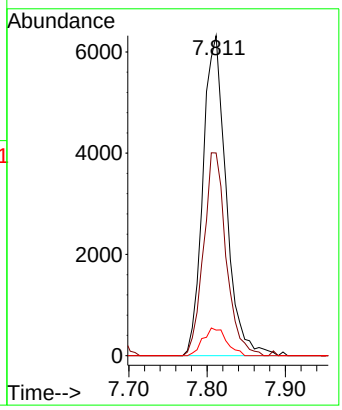




#47
Bromodichloromethane
Concen: 5.126 ug/l
RT: 7.811 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 83 Resp: 1297

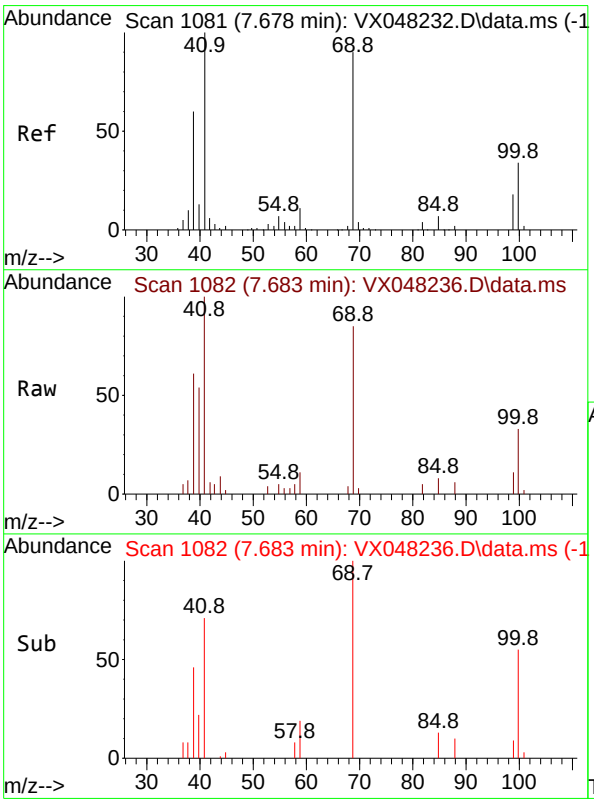
Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.2	78.4
127	8.0	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

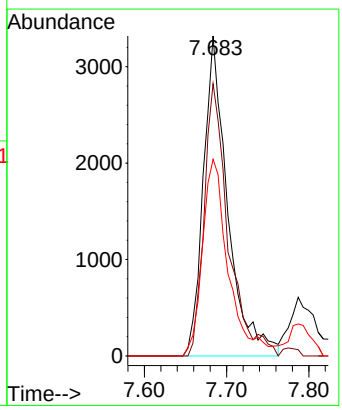
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

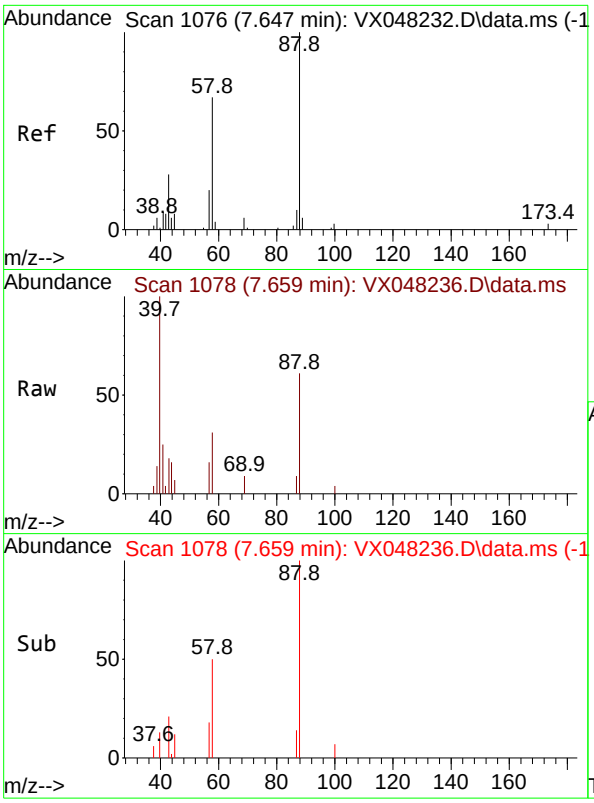


#48
Methyl methacrylate
Concen: 4.542 ug/l
RT: 7.683 min Scan# 1082
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 41 Resp: 6863

Ion	Ratio	Lower	Upper
41	100		
69	83.7	63.4	95.0
39	64.8	47.1	70.7

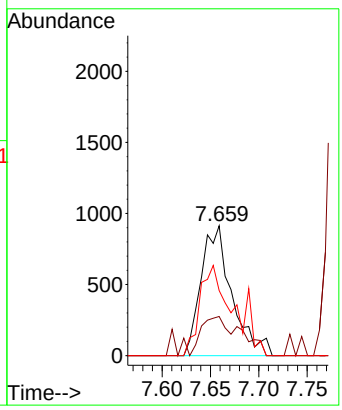




#49
1,4-Dioxane
Concen: 103.402 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.018 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 88 Resp: 202

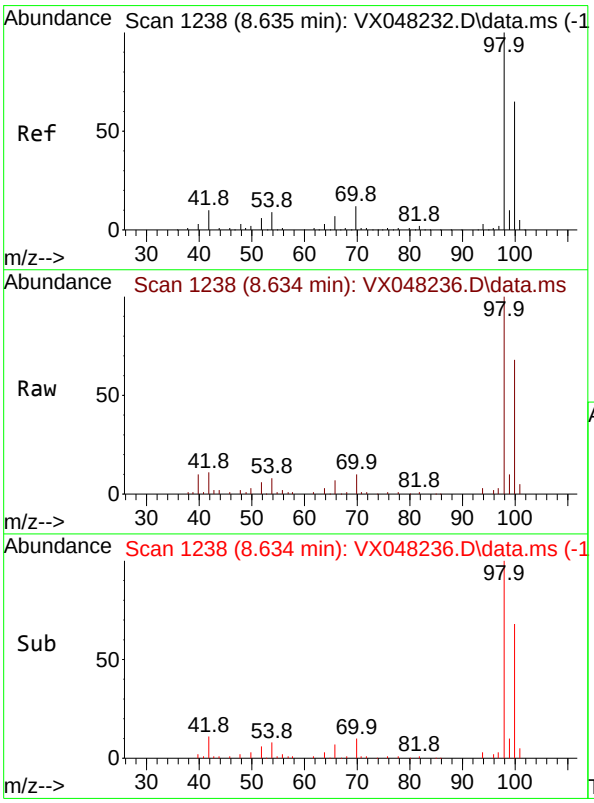
Ion	Ratio	Lower	Upper
88	100		
43	38.4	35.0	52.4
58	76.8	61.9	92.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

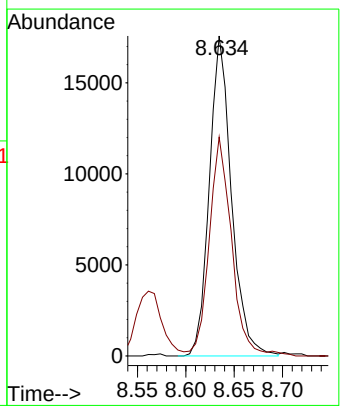
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

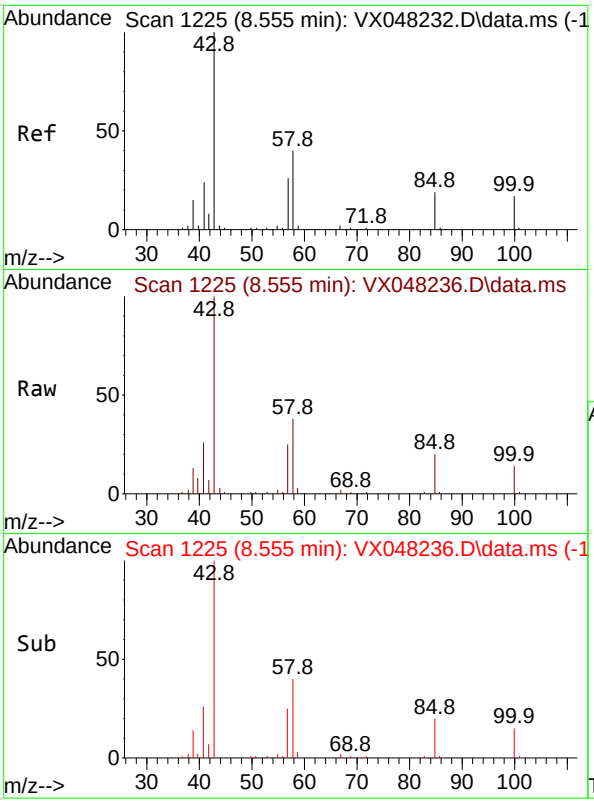


#50
Toluene-d8
Concen: 3.999 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 98 Resp: 27914

Ion	Ratio	Lower	Upper
98	100		
100	69.2	53.0	79.4





#51
4-Methyl-2-Pentanone
Concen: 24.936 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

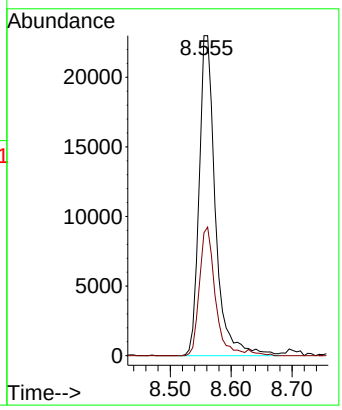
Tgt Ion: 43 Resp: 4272

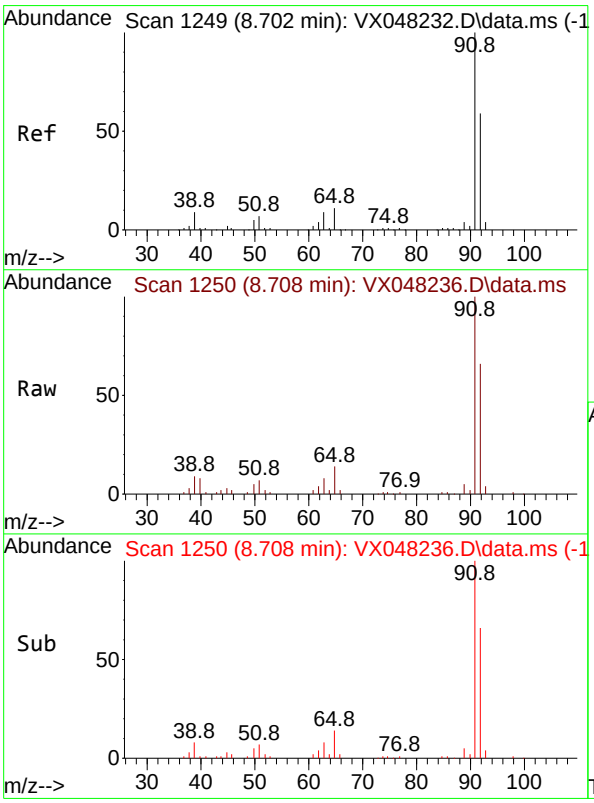
Ion	Ratio	Lower	Upper
43	100		
58	38.7	29.5	44.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

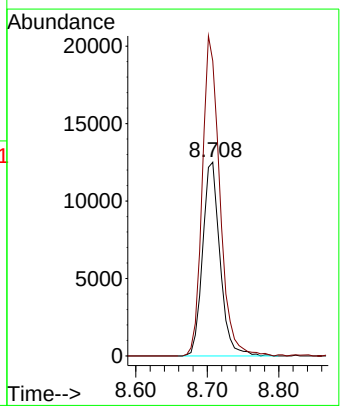


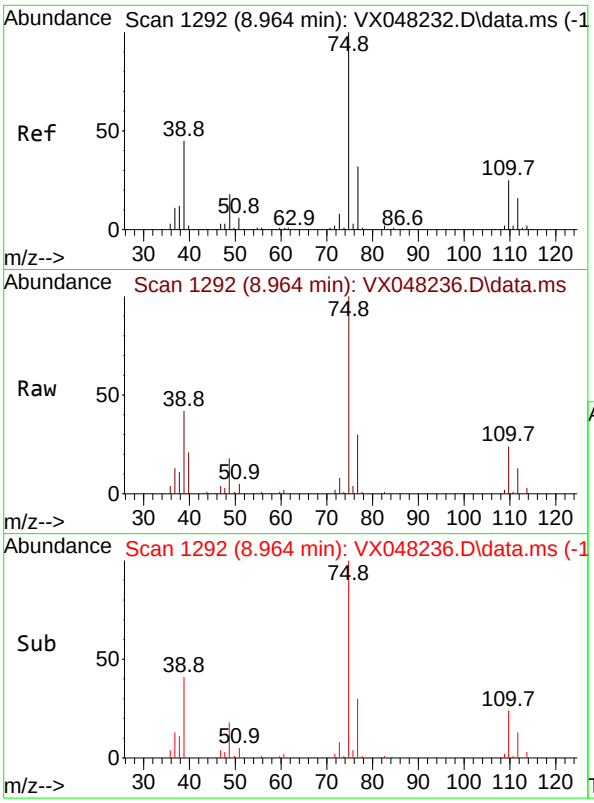


#52
Toluene
Concen: 5.296 ug/l
RT: 8.708 min Scan# 1250
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 92 Resp: 21137

Ion	Ratio	Lower	Upper
92	100		
91	166.2	136.1	204.1

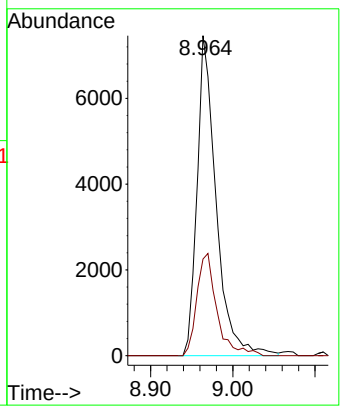




#53
t-1,3-Dichloropropene
Concen: 4.914 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 75 Resp: 1201

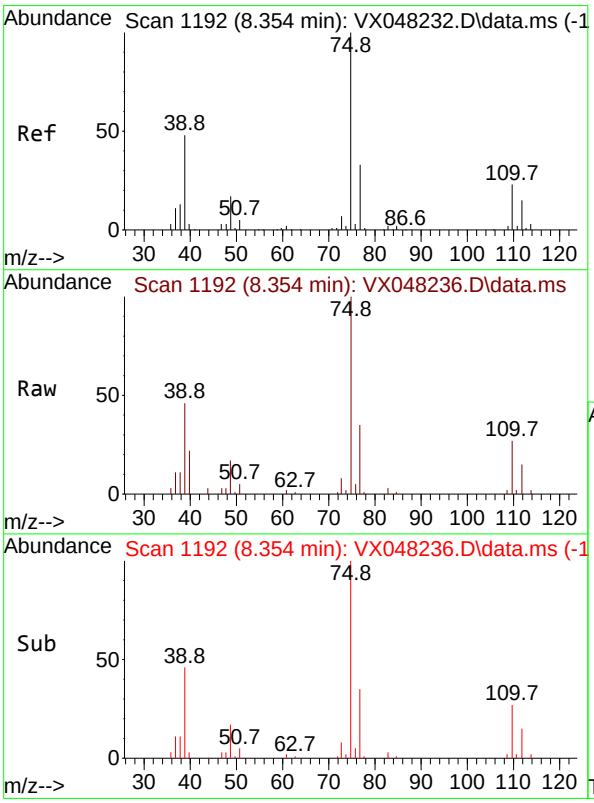
Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

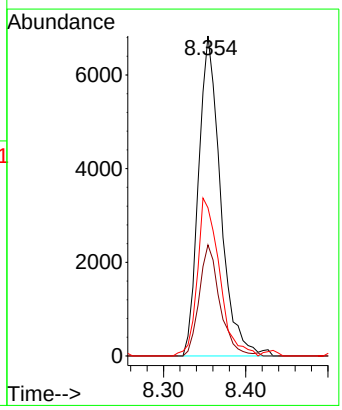
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

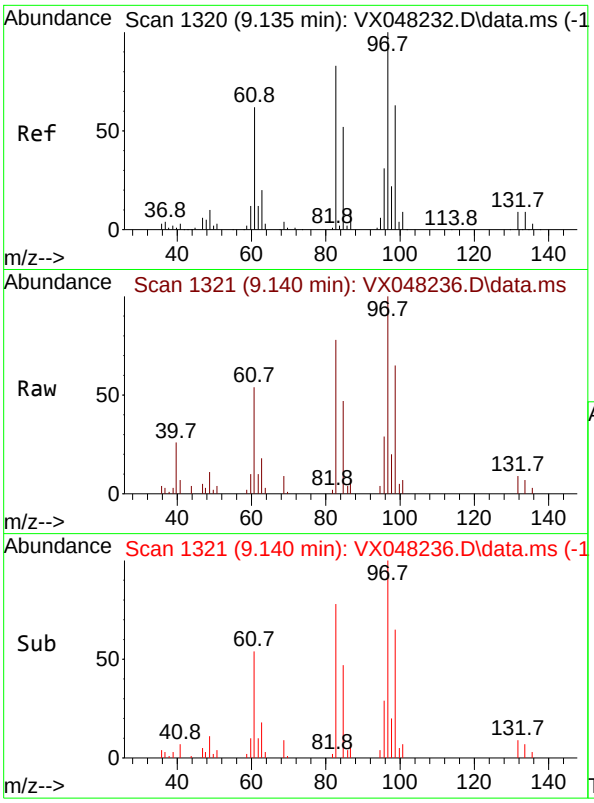


#54
cis-1,3-Dichloropropene
Concen: 4.820 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 75 Resp: 12702

Ion	Ratio	Lower	Upper
75	100		
77	35.7	24.9	37.3
39	45.3	42.6	64.0

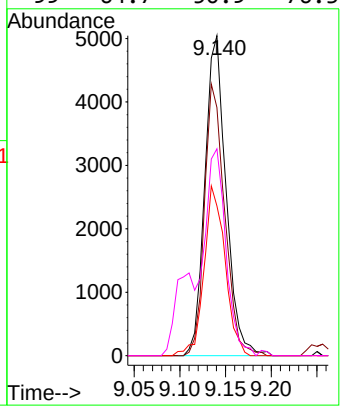




#55
1,1,2-Trichloroethane
Concen: 5.453 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 97 Resp: 811

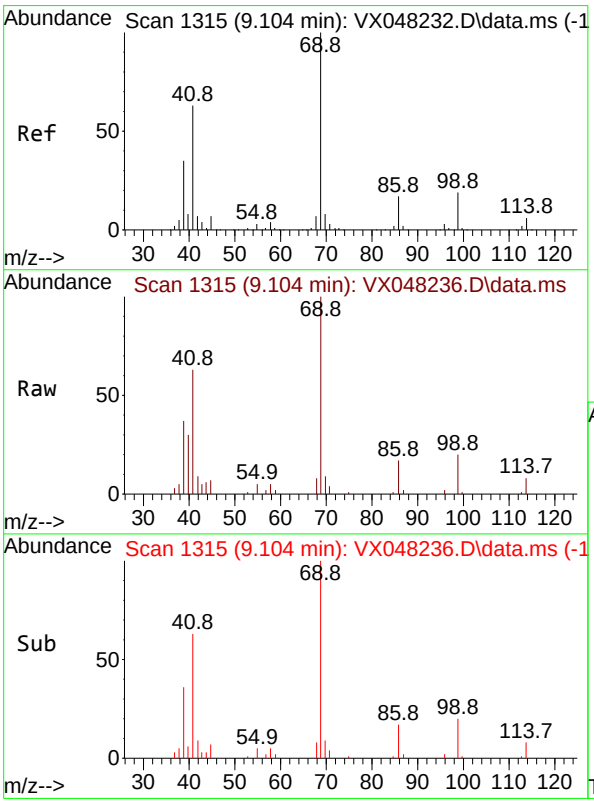
Ion	Ratio	Lower	Upper
97	100		
83	77.5	70.6	105.8
85	46.8	45.0	67.6
99	64.7	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

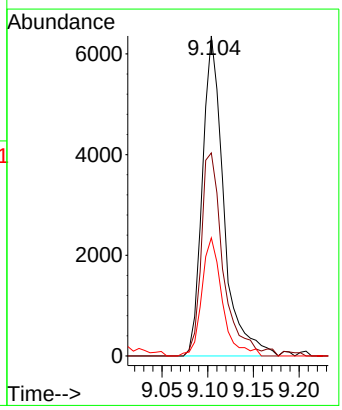
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

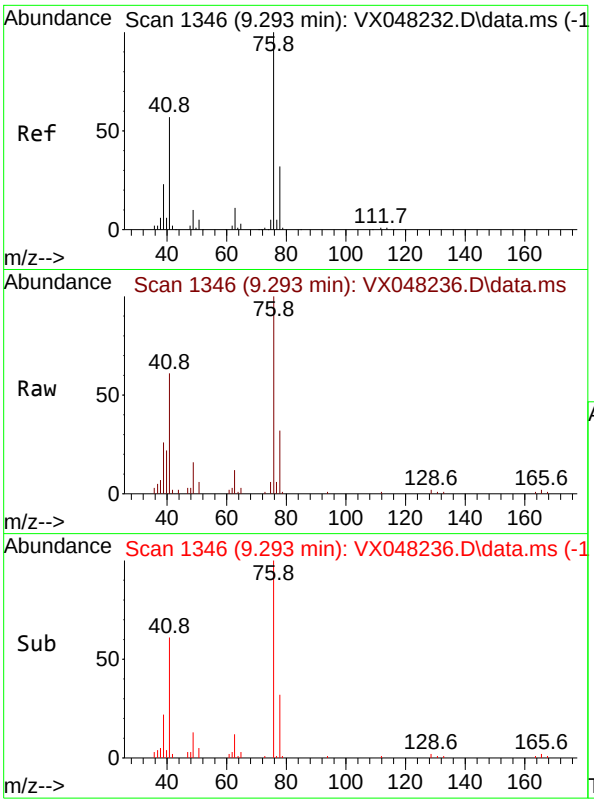


#56
Ethyl methacrylate
Concen: 4.713 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 69 Resp: 10320

Ion	Ratio	Lower	Upper
69	100		
41	65.3	56.0	84.0
39	35.3	31.6	47.4





#57
1,3-Dichloropropane
Concen: 5.112 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

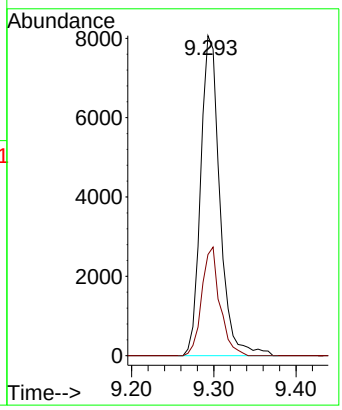
Tgt Ion: 76 Resp: 1308

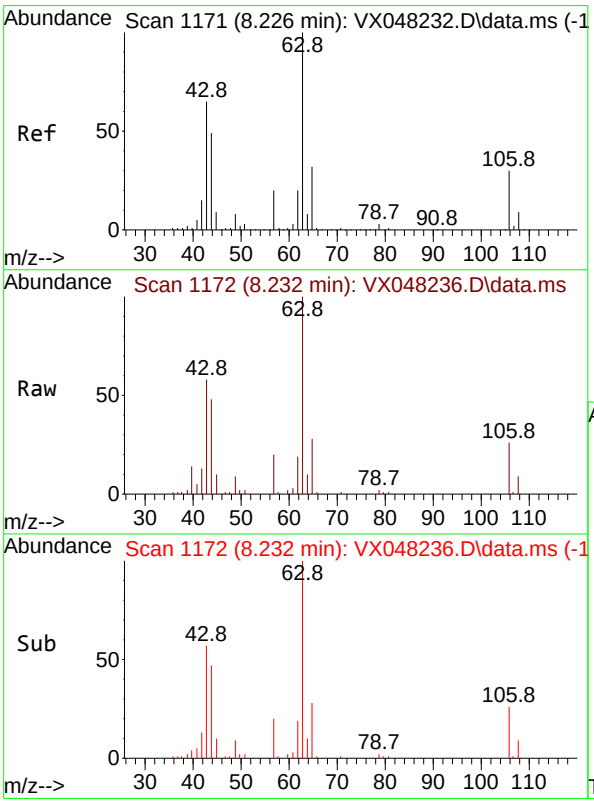
Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.4	38.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

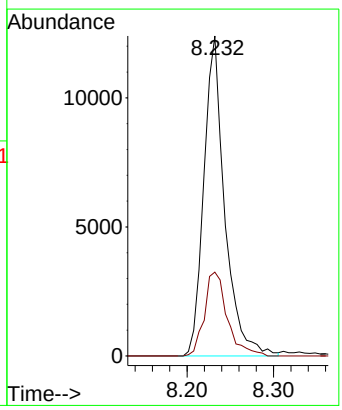


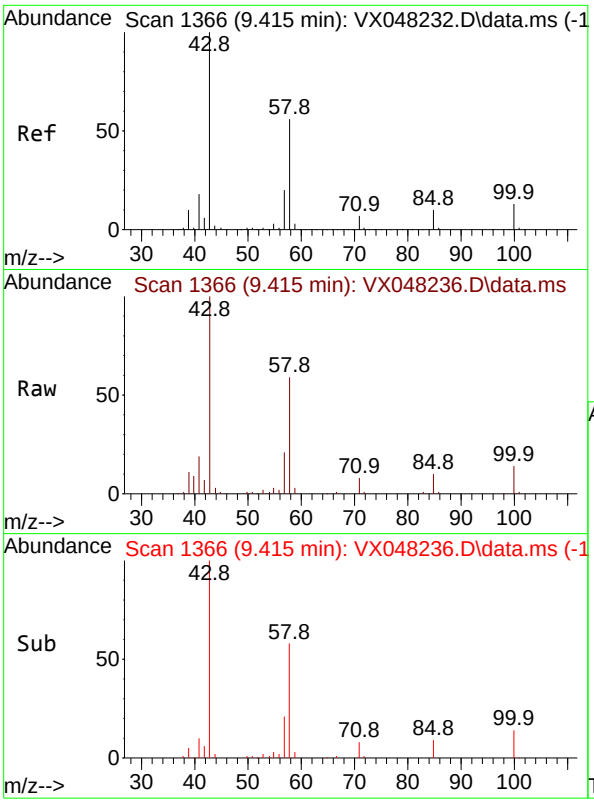


#58
2-Chloroethyl Vinyl ether
Concen: 19.525 ug/l
RT: 8.232 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 63 Resp: 20764

Ion	Ratio	Lower	Upper
63	100		
106	28.6	22.2	33.2





#59
2-Hexanone
Concen: 25.896 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

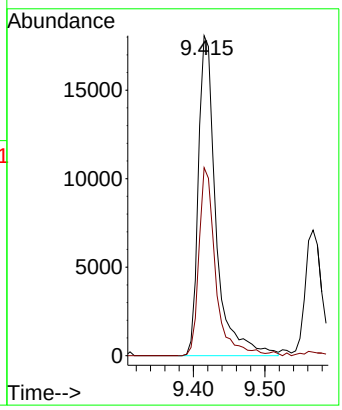
Tgt Ion: 43 Resp: 3094

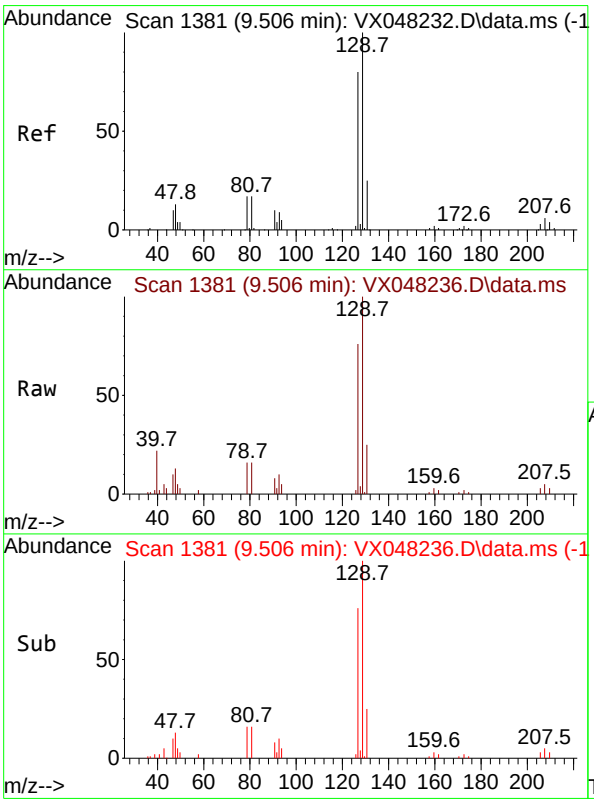
Ion	Ratio	Lower	Upper
43	100		
58	55.4	26.3	78.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

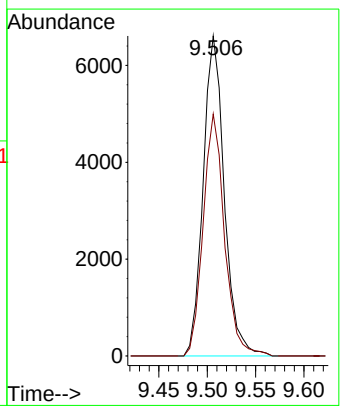


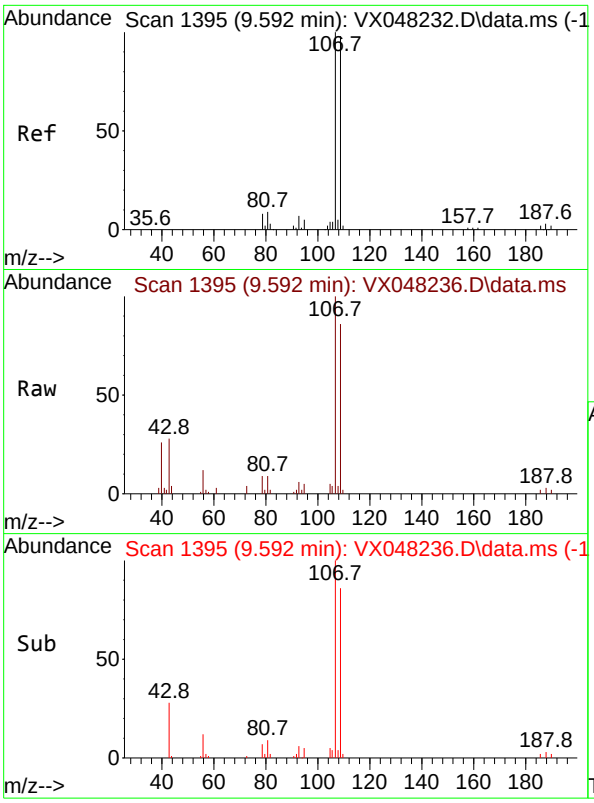


#60
Dibromochloromethane
Concen: 5.028 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:129 Resp: 10082

Ion	Ratio	Lower	Upper
129	100		
127	76.3	38.6	115.7





#61
1,2-Dibromoethane
Concen: 5.075 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

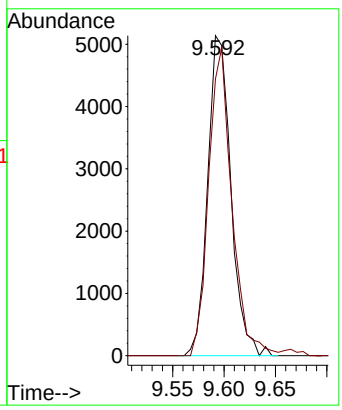
Tgt Ion:107 Resp: 807

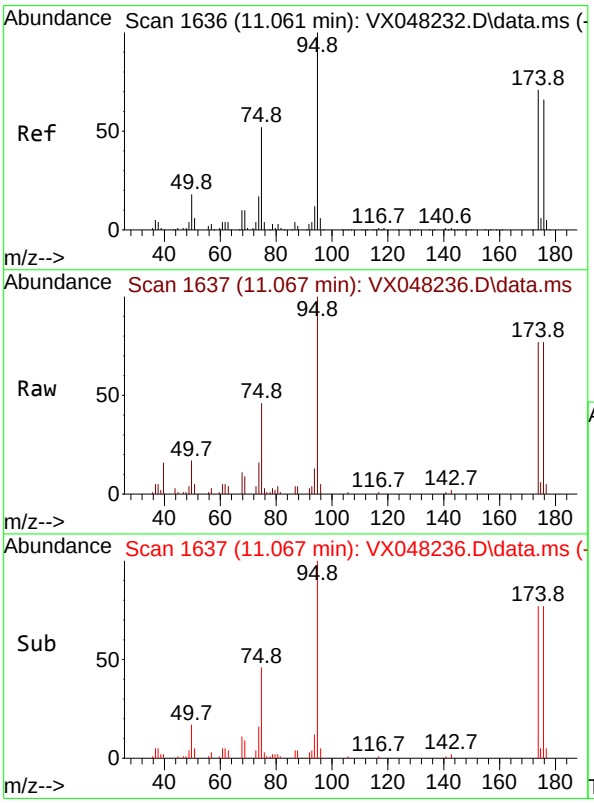
Ion	Ratio	Lower	Upper
107	100		
109	96.3	77.0	115.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

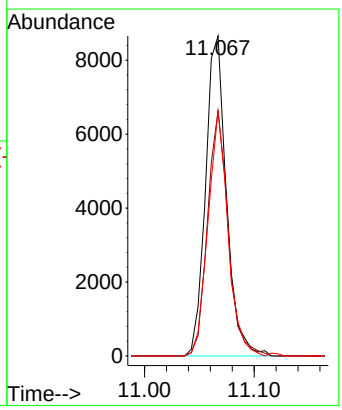


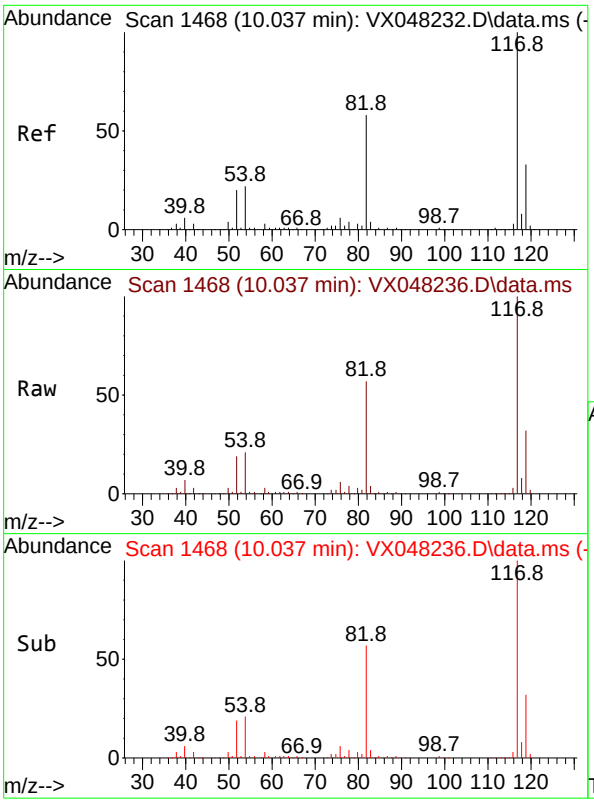


#62
4-Bromofluorobenzene
Concen: 4.042 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 95 Resp: 11429

Ion	Ratio	Lower	Upper
95	100		
174	75.7	0.0	147.8
176	73.4	0.0	142.8

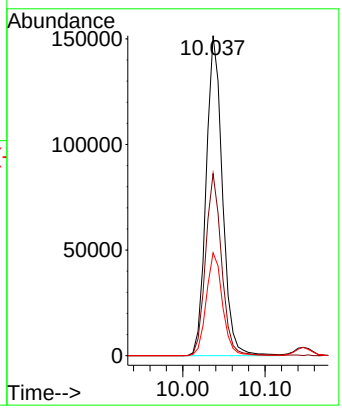




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:117 Resp: 20848

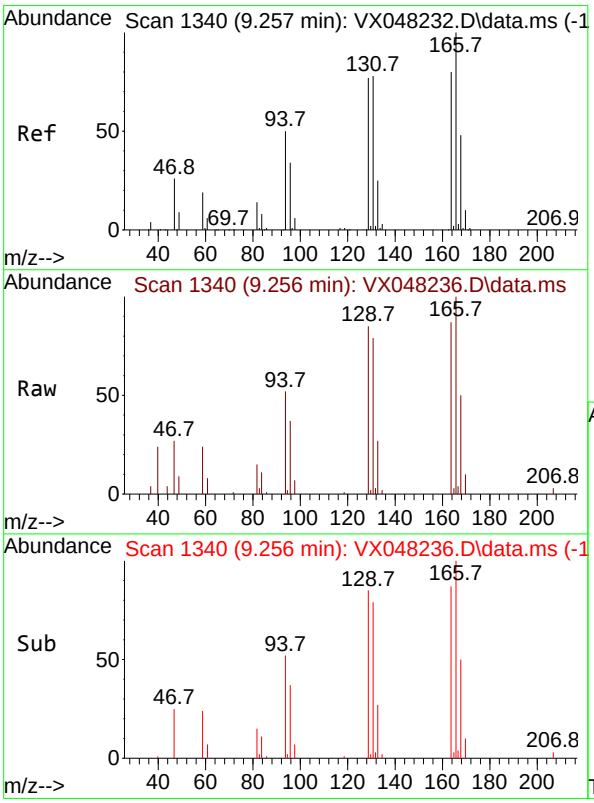
Ion	Ratio	Lower	Upper
117	100		
82	56.9	46.5	69.7
119	32.2	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

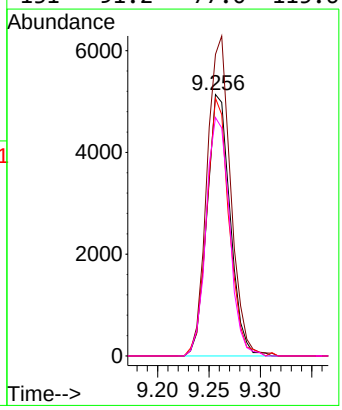
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

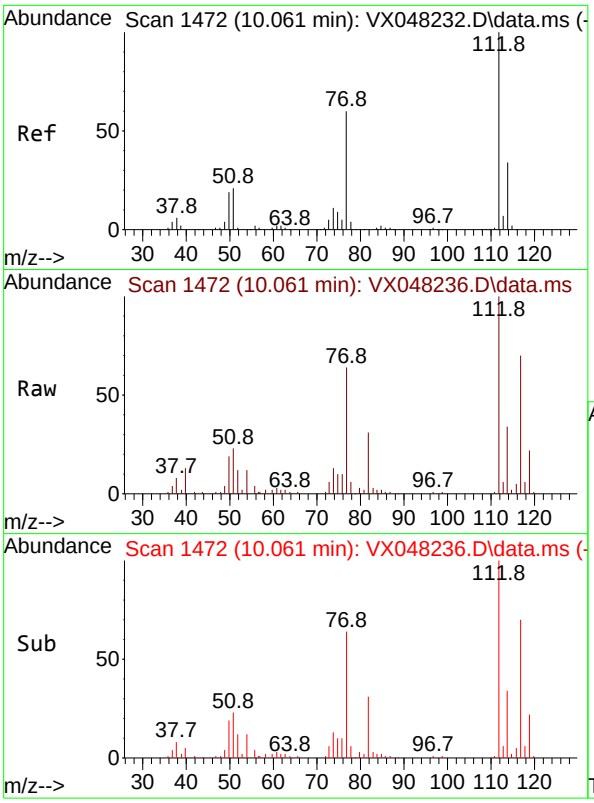


#64
Tetrachloroethene
Concen: 5.341 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:164 Resp: 8020

Ion	Ratio	Lower	Upper
164	100		
166	115.3	104.5	156.7
129	98.6	81.8	122.6
131	91.2	77.0	115.6





#65
Chlorobenzene
Concen: 5.236 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

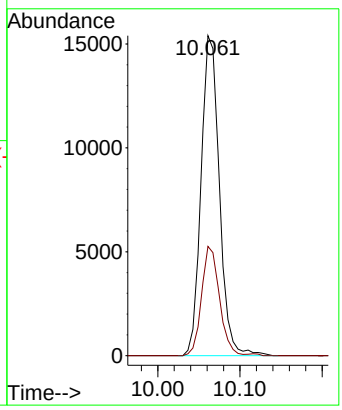
Tgt Ion:112 Resp: 2387

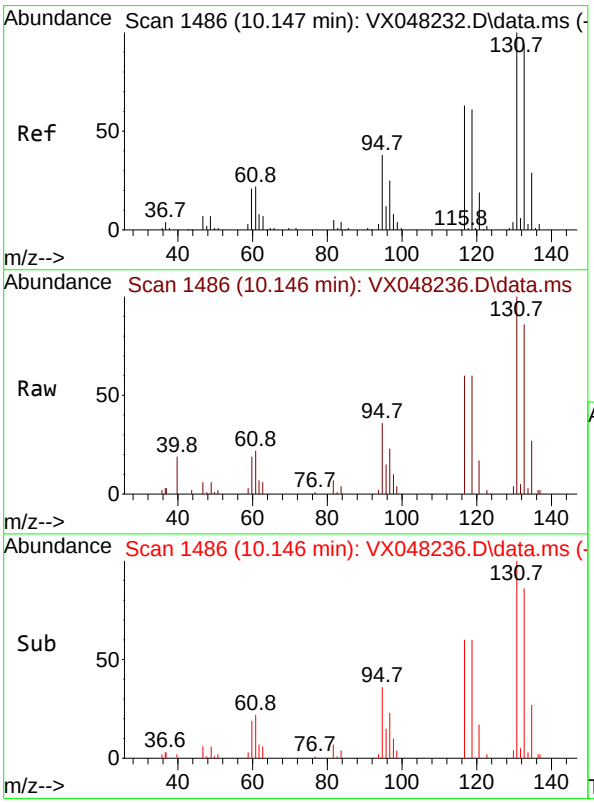
Ion	Ratio	Lower	Upper
112	100		
114	34.2	26.2	39.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

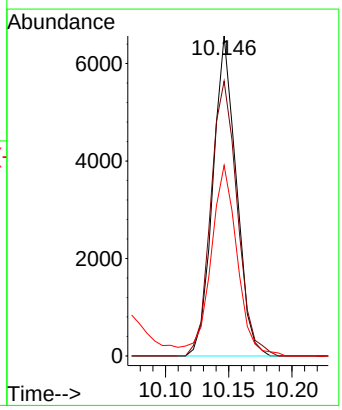


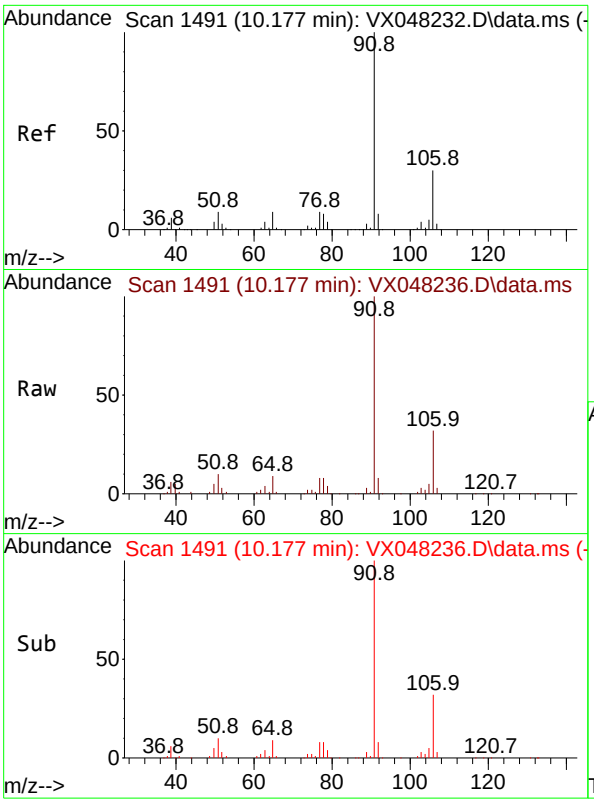


#66
1,1,1,2-Tetrachloroethane
Concen: 5.012 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:131 Resp: 8450

Ion	Ratio	Lower	Upper
131	100		
133	97.1	47.6	142.8
119	66.7	32.5	97.5





#67
Ethyl Benzene
Concen: 5.044 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

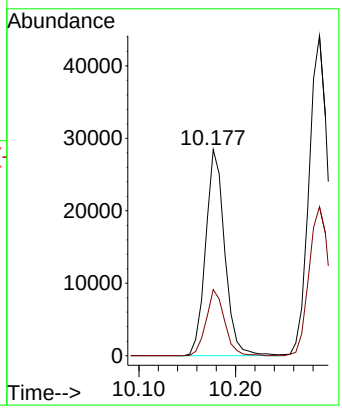
Tgt Ion: 91 Resp: 3912

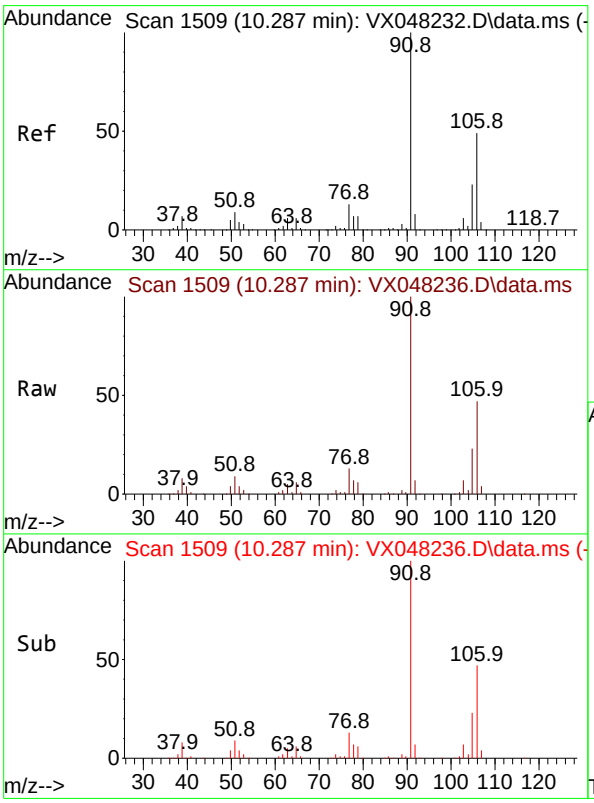
Ion	Ratio	Lower	Upper
91	100		
106	32.1	23.8	35.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

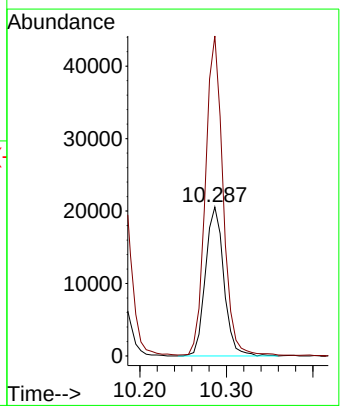


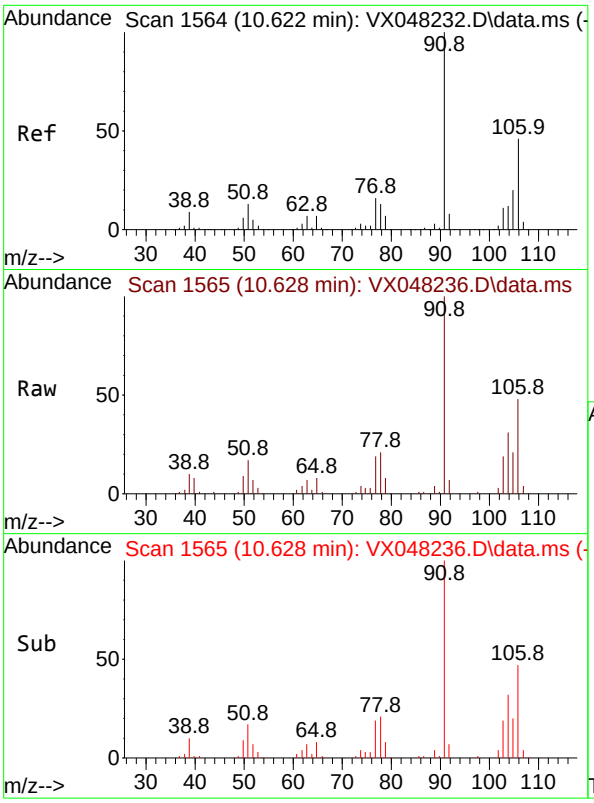


#68
m/p-Xylenes
Concen: 10.586 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:106 Resp: 30310

Ion	Ratio	Lower	Upper
106	100		
91	205.7	167.9	251.9

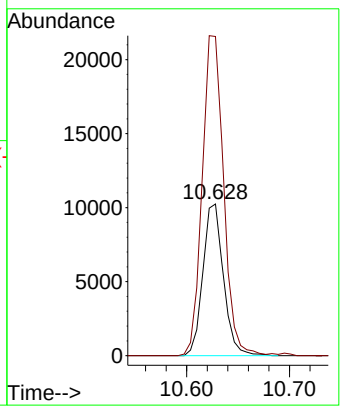




#69
o-Xylene
Concen: 5.128 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:106 Resp: 1426

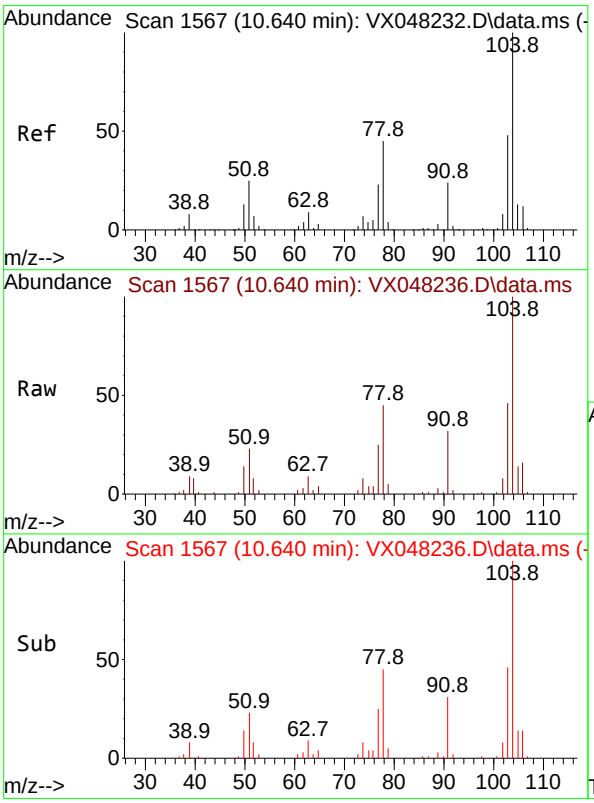
Ion	Ratio	Lower	Upper
106	100		
91	219.6	111.3	333.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

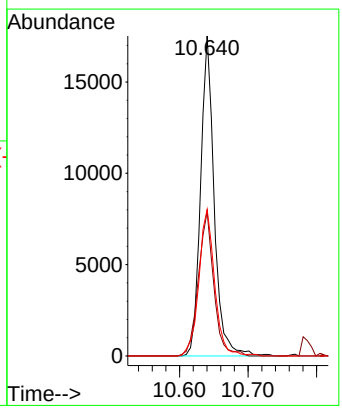
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

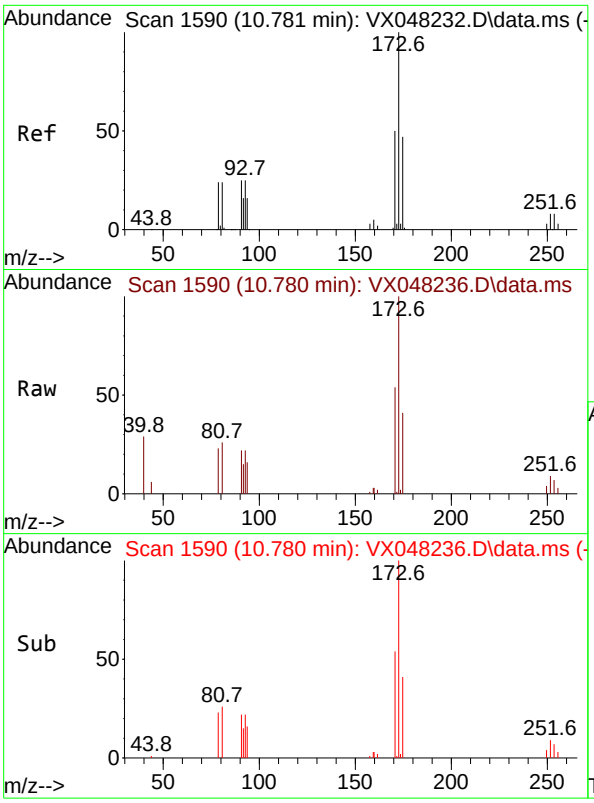


#70
Styrene
Concen: 5.138 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:104 Resp: 24289

Ion	Ratio	Lower	Upper
104	100		
78	51.1	42.2	63.4
103	53.2	43.0	64.4

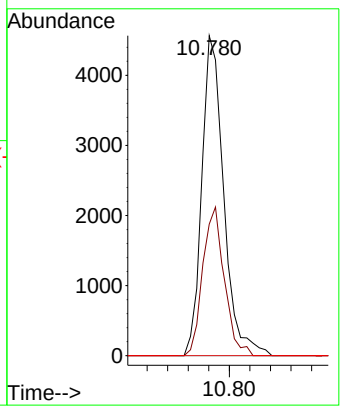




#71
Bromoform
Concen: 5.031 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:173 Resp: 676

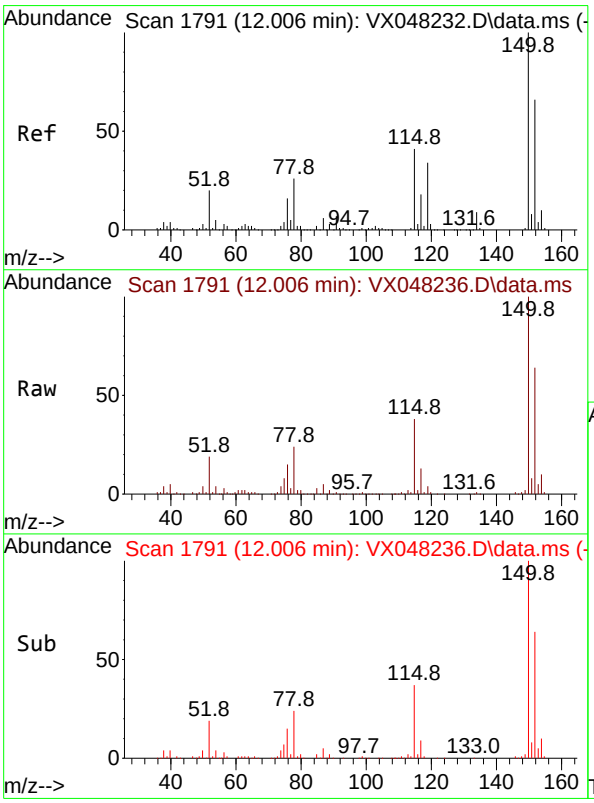
Ion	Ratio	Lower	Upper
173	100		
175	45.6	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

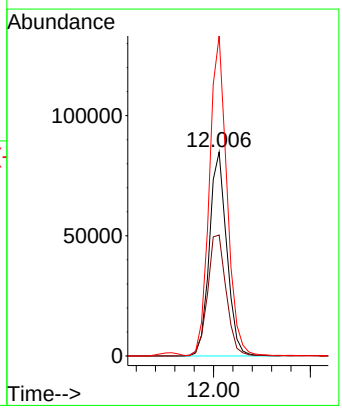
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

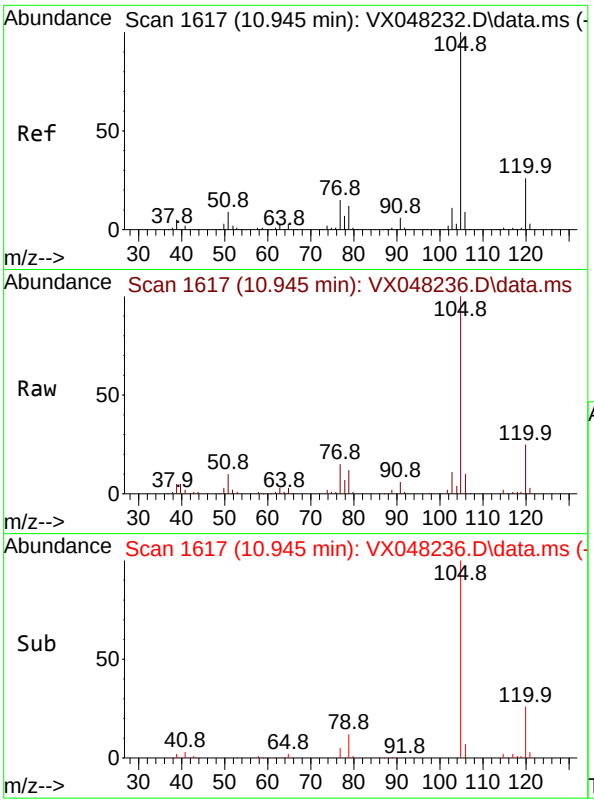


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:152 Resp: 105998

Ion	Ratio	Lower	Upper
152	100		
115	63.9	43.1	129.4
150	157.2	0.0	353.0

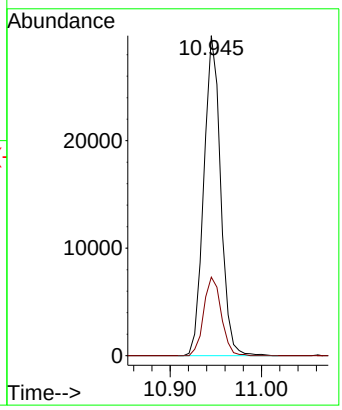




#73
Isopropylbenzene
Concen: 5.082 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:105 Resp: 3793

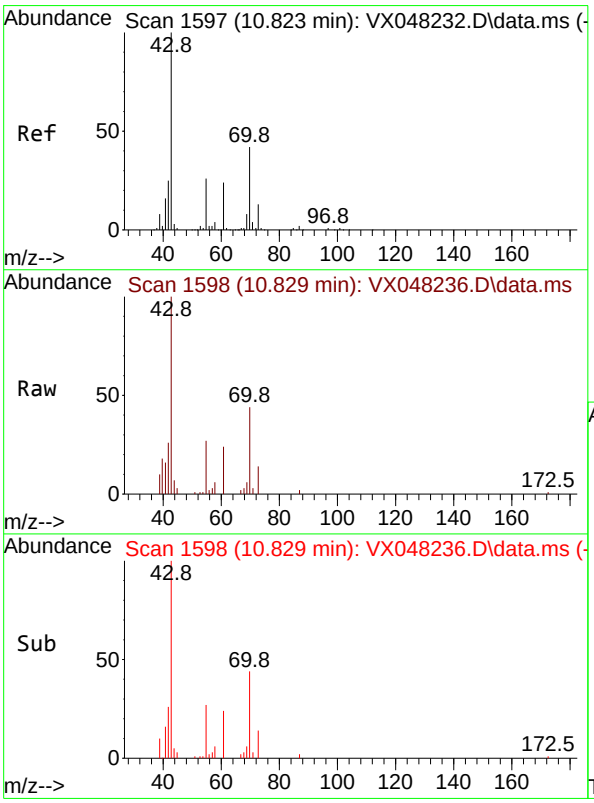
Ion	Ratio	Lower	Upper
105	100		
120	25.6	13.0	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

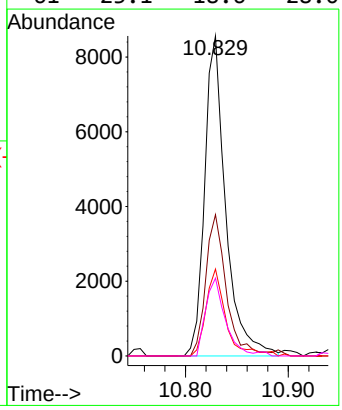
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

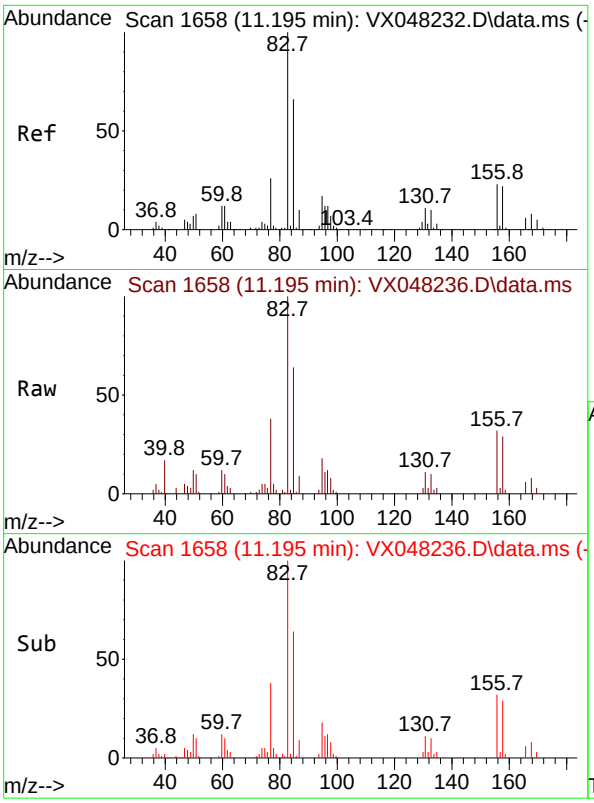


#74
N-amyl acetate
Concen: 4.544 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 43 Resp: 12188

Ion	Ratio	Lower	Upper
43	100		
70	43.3	32.2	48.2
55	25.7	19.1	28.7
61	23.1	18.6	28.0





#75
1,1,2,2-Tetrachloroethane
Concen: 4.992 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

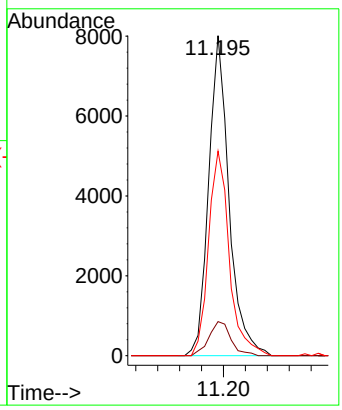
Tgt Ion: 83 Resp: 1032

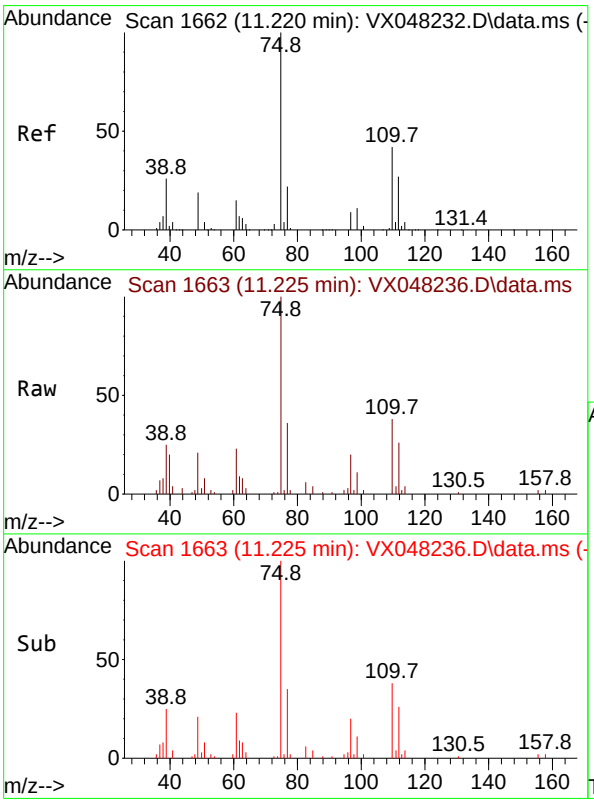
Ion	Ratio	Lower	Upper
83	100		
131	11.5	4.8	14.4
85	65.0	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

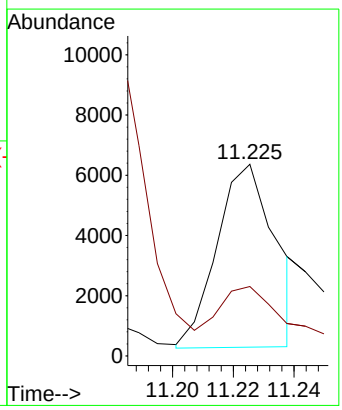


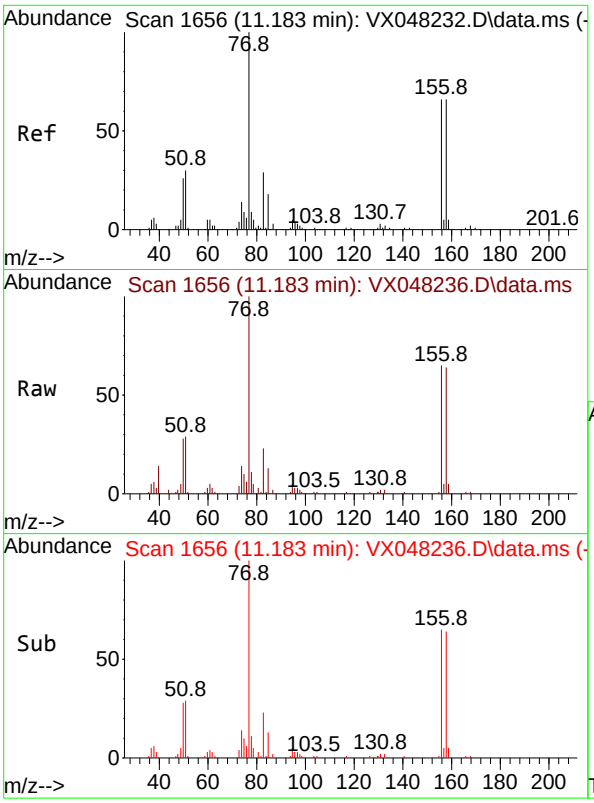


#76
1,2,3-Trichloropropane
Concen: 4.889 ug/l m
RT: 11.225 min Scan# 1663
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 75 Resp: 8134

Ion	Ratio	Lower	Upper
75	100		
77	49.3	22.4	67.2





#77
Bromobenzene
Concen: 5.027 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

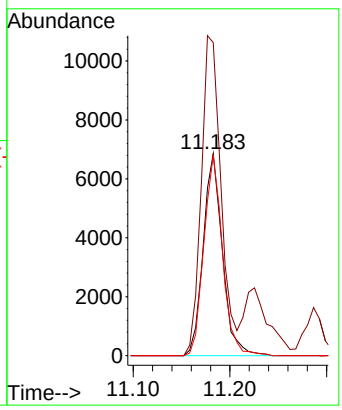
Tgt Ion:156 Resp: 950

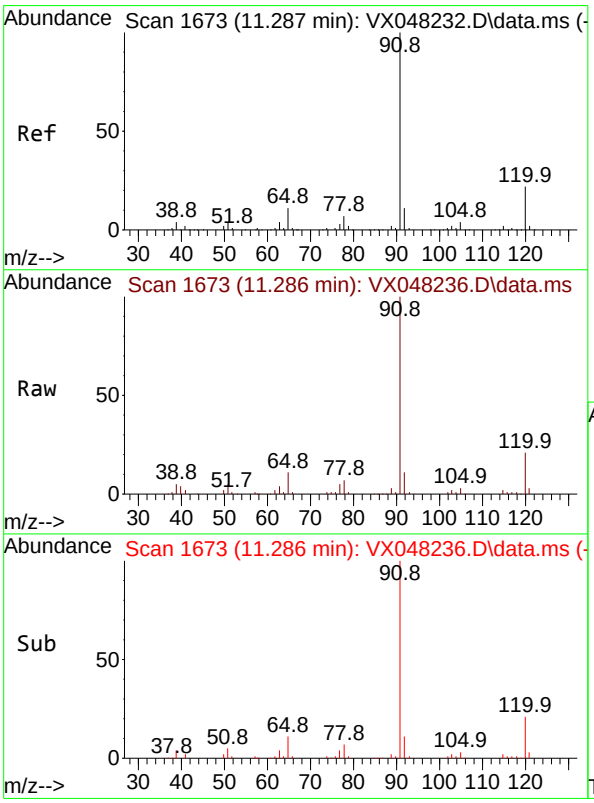
Ion	Ratio	Lower	Upper
156	100		
77	162.1	87.0	261.0
158	96.5	47.8	143.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

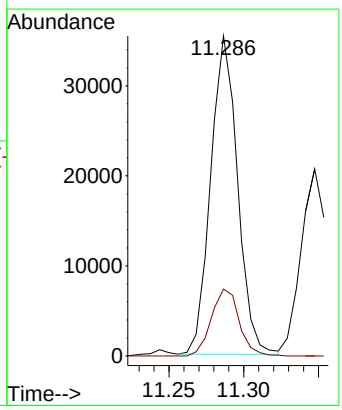


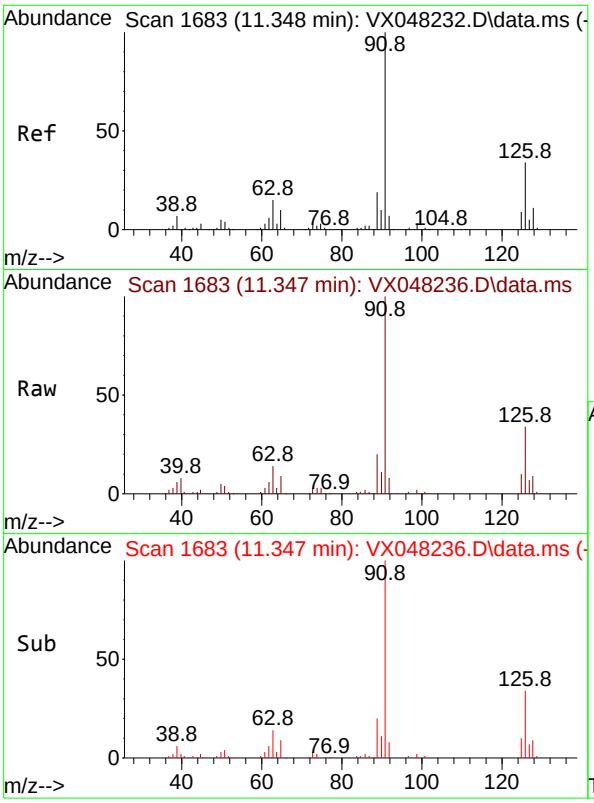


#78
n-propylbenzene
Concen: 5.097 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 91 Resp: 44189

Ion	Ratio	Lower	Upper
91	100		
120	21.7	11.1	33.1





#79
2-Chlorotoluene
Concen: 5.032 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

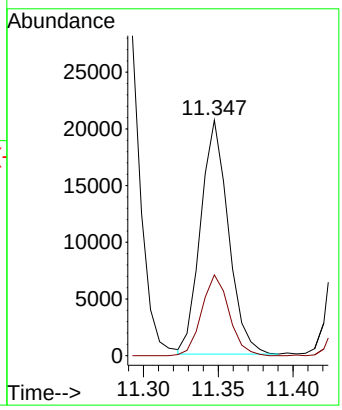
Tgt Ion: 91 Resp: 2662

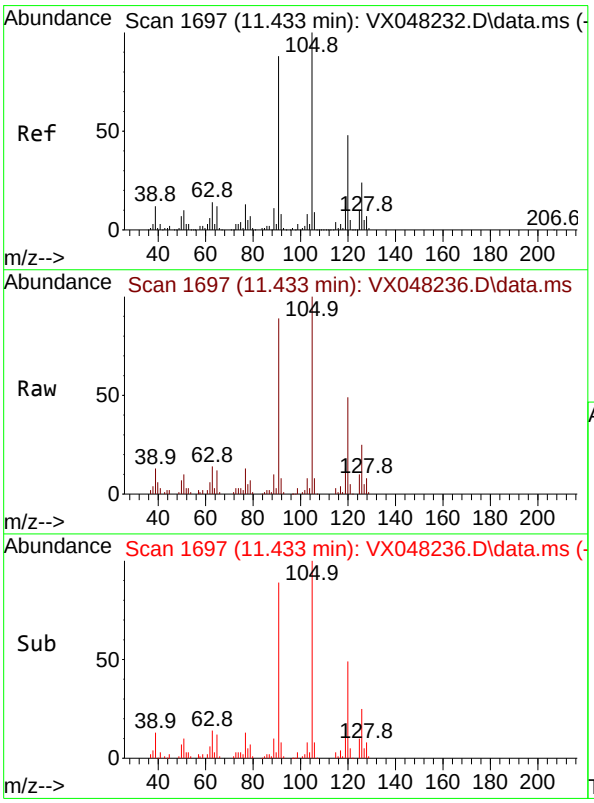
Ion	Ratio	Lower	Upper
91	100		
126	34.0	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

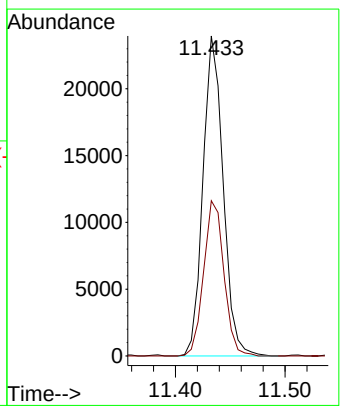


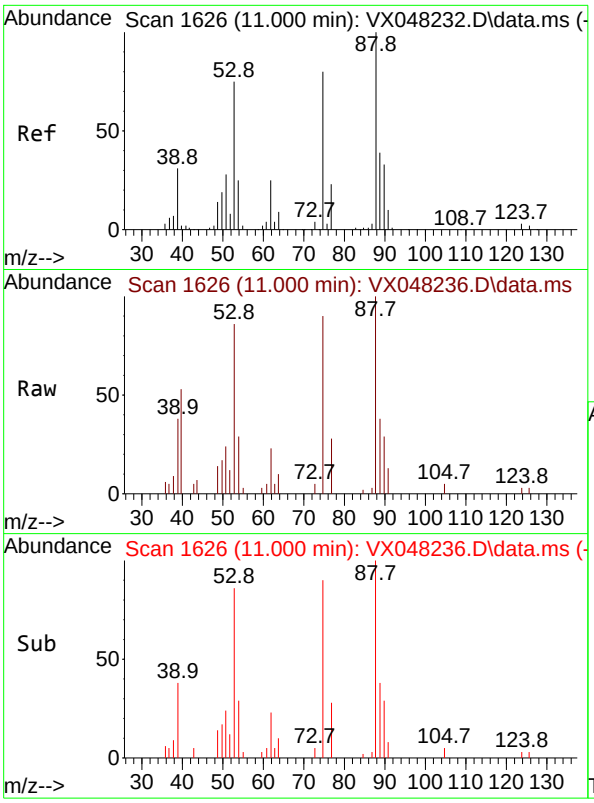


#80
1,3,5-Trimethylbenzene
Concen: 4.910 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:105 Resp: 30618

Ion	Ratio	Lower	Upper
105	100		
120	48.8	24.0	72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 4.387 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

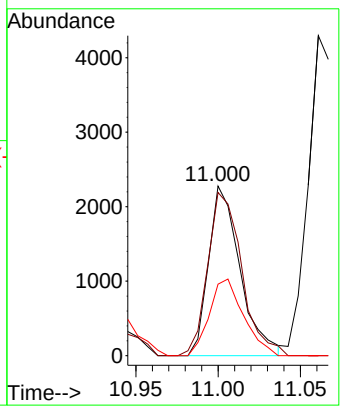
Tgt Ion: 75 Resp: 303

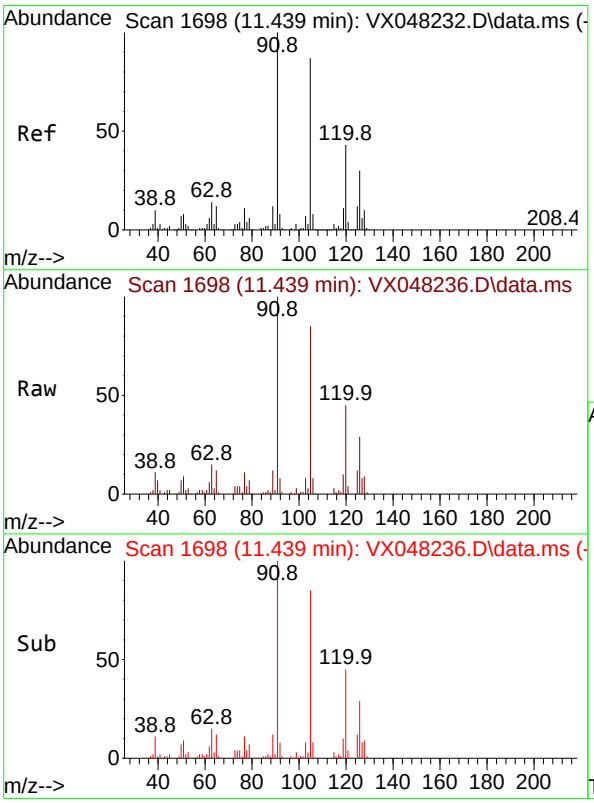
Ion	Ratio	Lower	Upper
75	100		
53	103.8	79.5	119.3
89	49.0	36.8	55.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

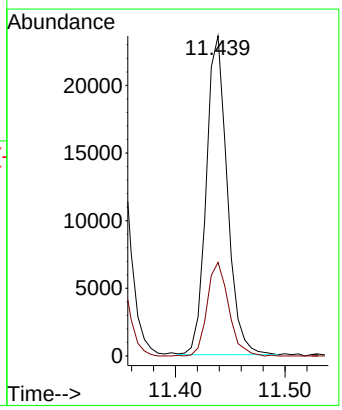


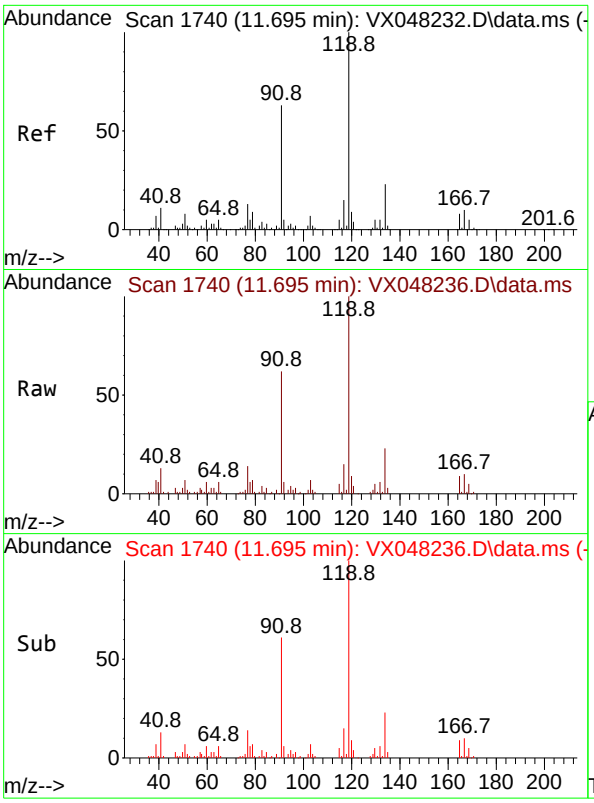


#82
4-Chlorotoluene
Concen: 5.017 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 91 Resp: 31357

Ion	Ratio	Lower	Upper
91	100		
126	30.1	14.1	42.4

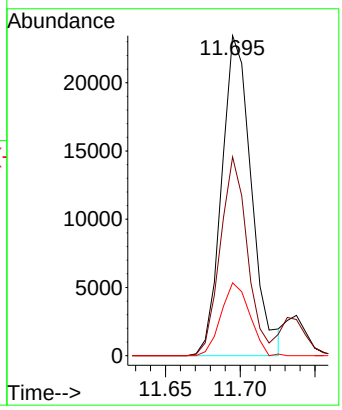




#83
tert-Butylbenzene
Concen: 5.086 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:119 Resp: 3229

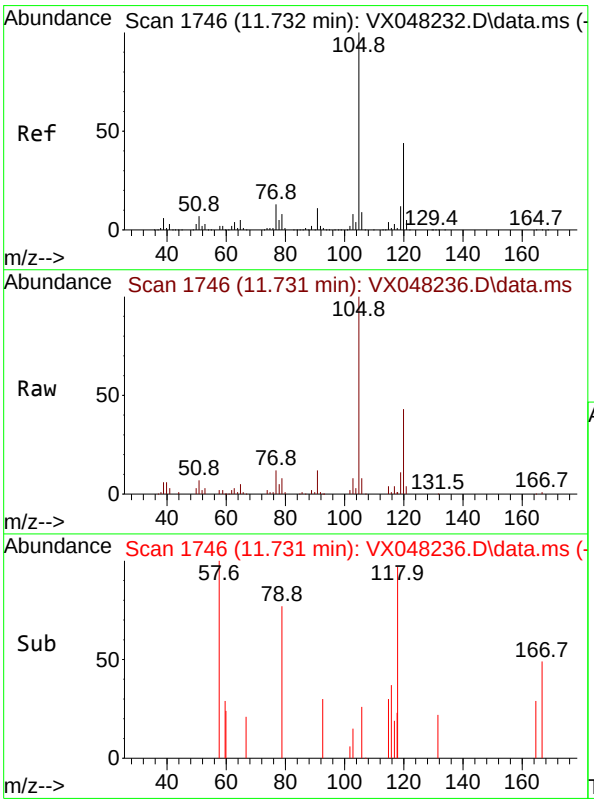
Ion	Ratio	Lower	Upper
119	100		
91	56.8	30.3	91.0
134	22.0	11.4	34.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

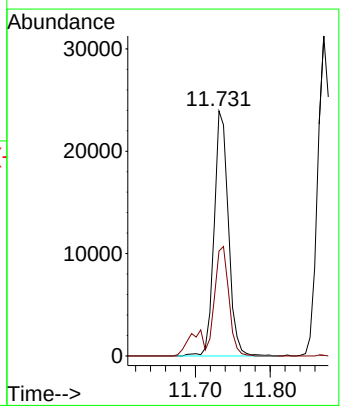
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

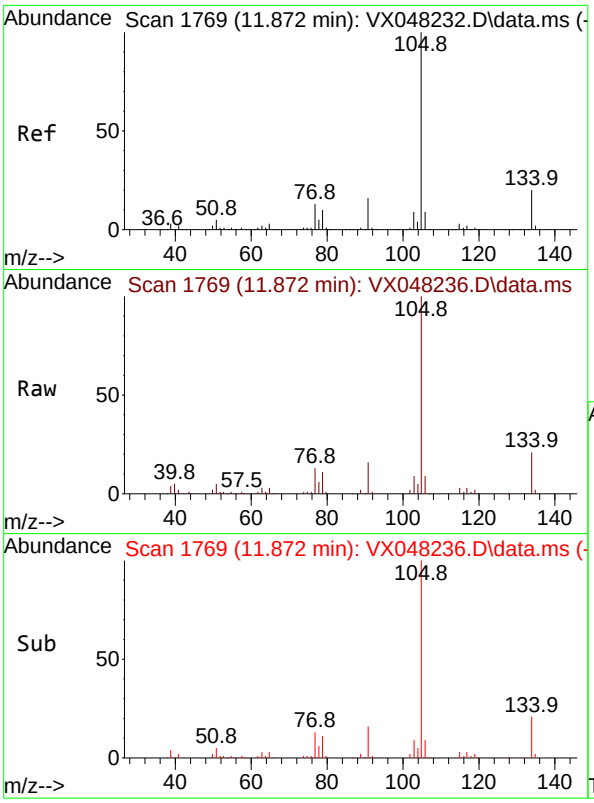


#84
1,2,4-Trimethylbenzene
Concen: 5.129 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:105 Resp: 31709

Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.1	66.5





#85
sec-Butylbenzene
Concen: 5.118 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

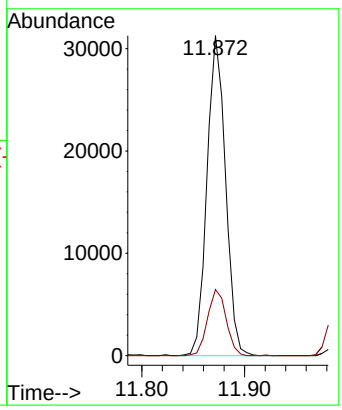
Tgt Ion:105 Resp: 3911

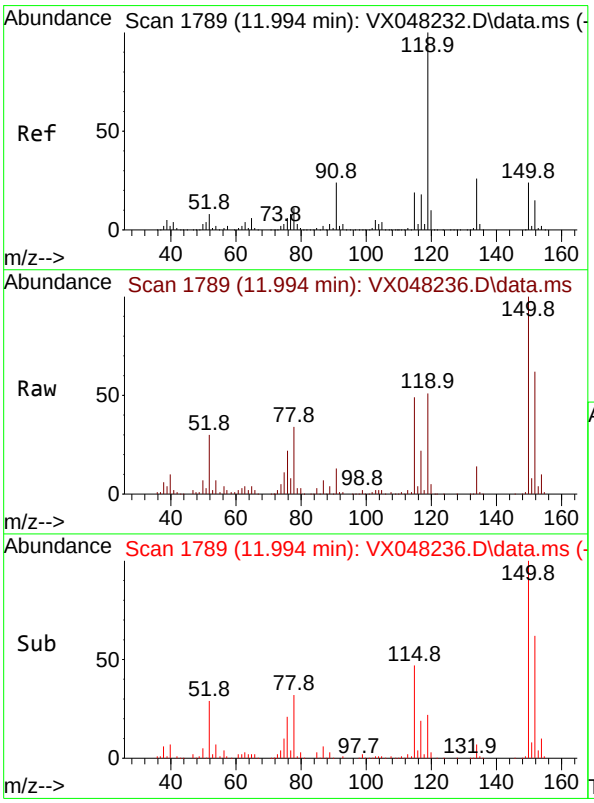
Ion	Ratio	Lower	Upper
105	100		
134	20.8	10.1	30.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

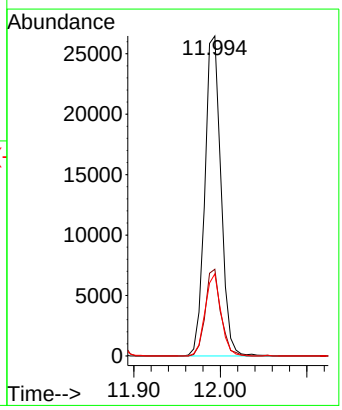


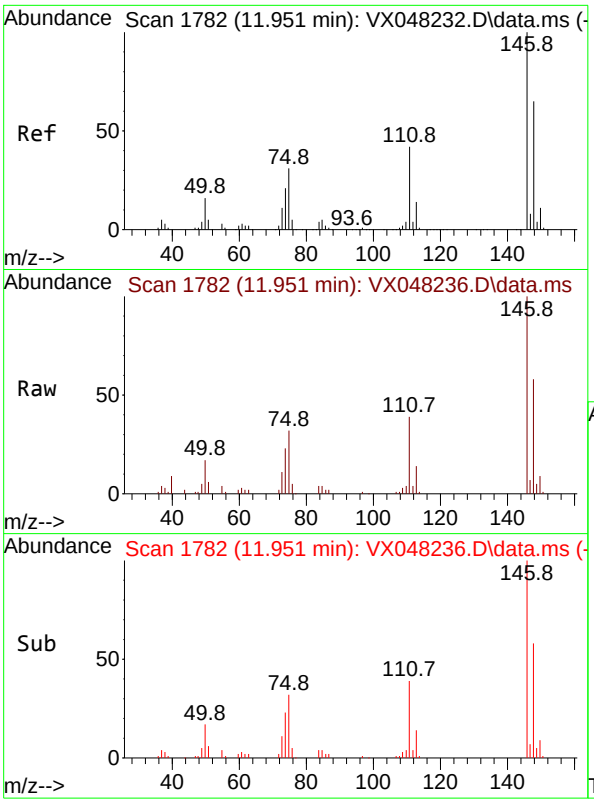


#86
p-Isopropyltoluene
Concen: 5.185 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:119 Resp: 34155

Ion	Ratio	Lower	Upper
119	100		
134	26.1	13.0	39.0
91	25.3	12.1	36.3

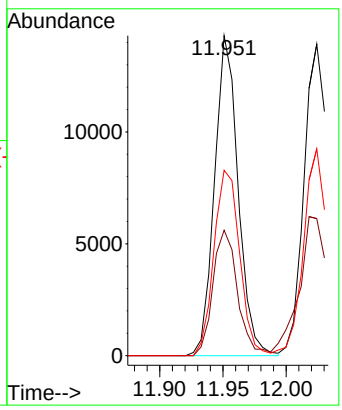




#87
1,3-Dichlorobenzene
Concen: 5.256 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:146 Resp: 1854

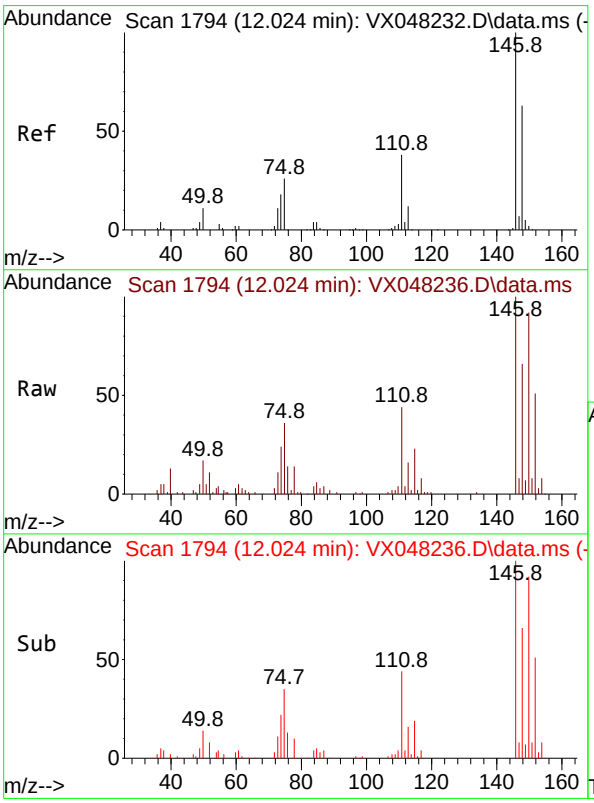
Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.4	61.2
148	63.1	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

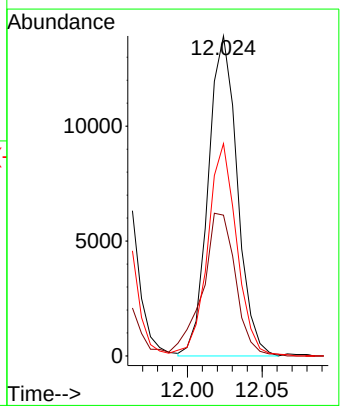
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

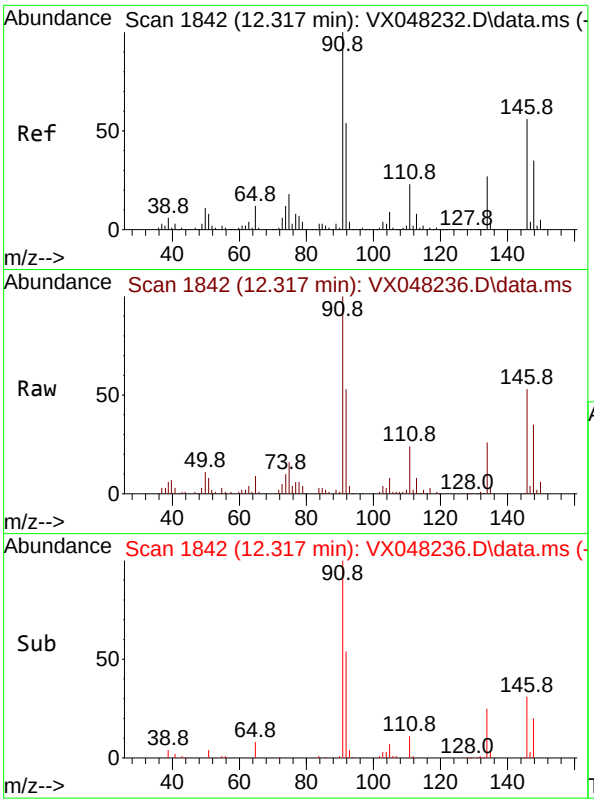


#88
1,4-Dichlorobenzene
Concen: 5.081 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:146 Resp: 18787

Ion	Ratio	Lower	Upper
146	100		
111	50.9	20.1	60.2
148	66.5	31.8	95.3

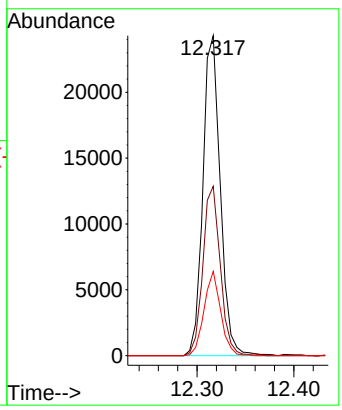




#89
n-Butylbenzene
Concen: 5.069 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 91 Resp: 3040

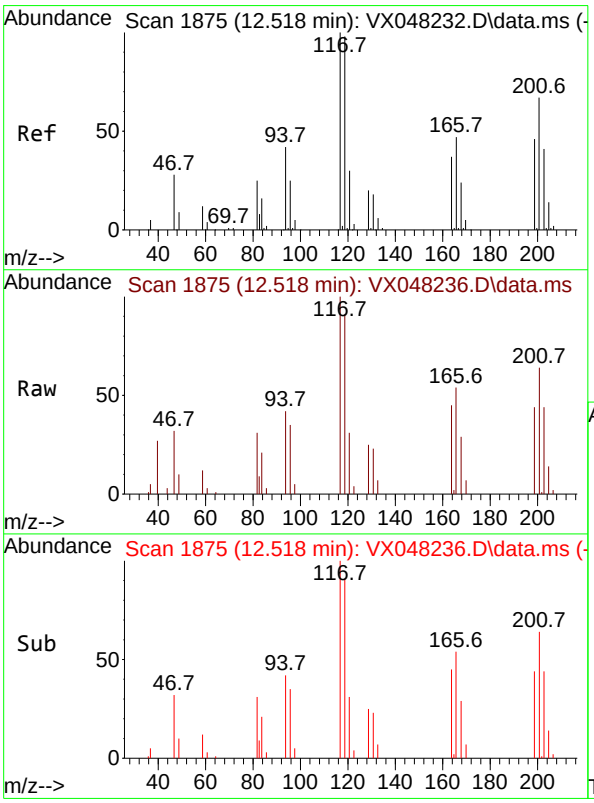
Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.9	80.6
134	25.2	12.7	38.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

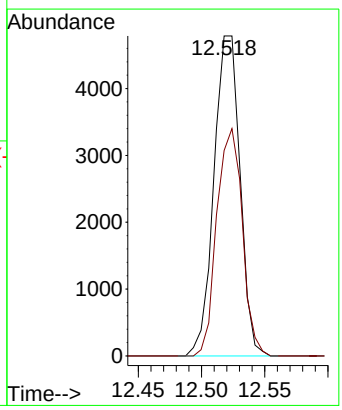
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

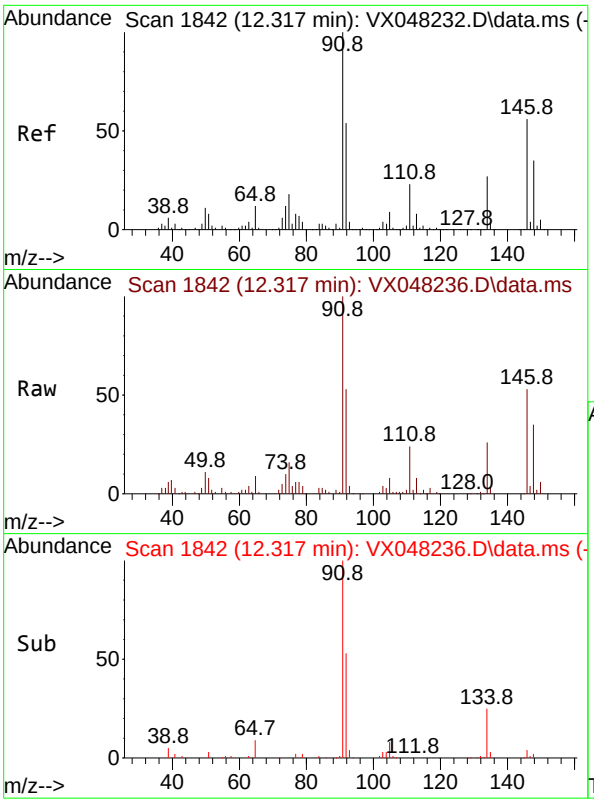


#90
Hexachloroethane
Concen: 5.210 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:117 Resp: 6863

Ion	Ratio	Lower	Upper
117	100		
201	69.4	34.1	102.2

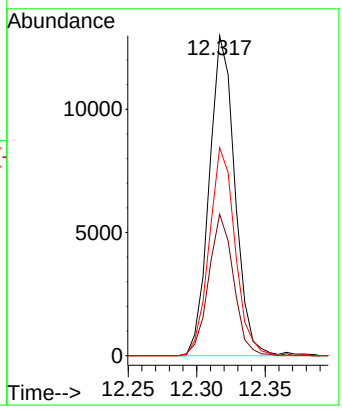




#91
1,2-Dichlorobenzene
Concen: 5.076 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:146 Resp: 1684

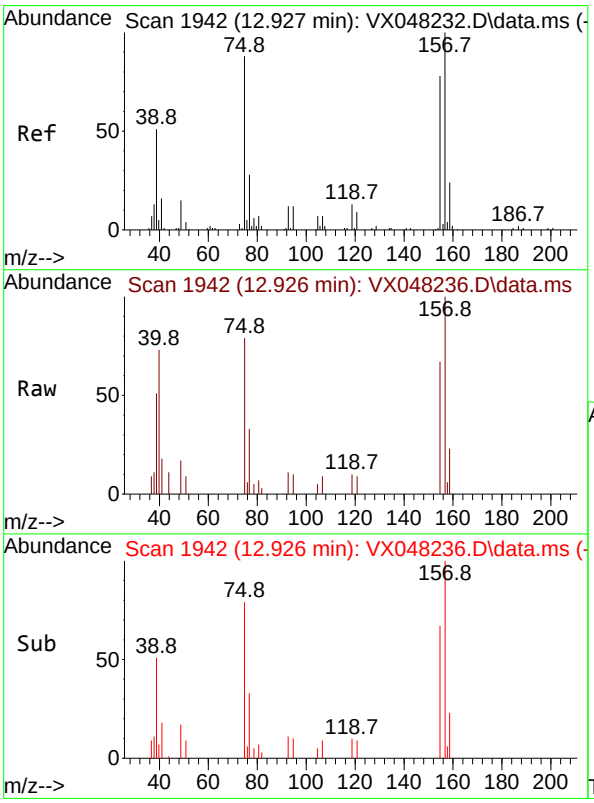
Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.9	65.5
148	65.9	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

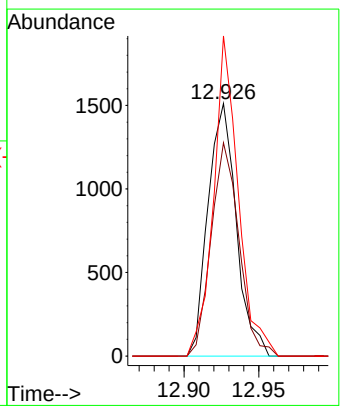
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

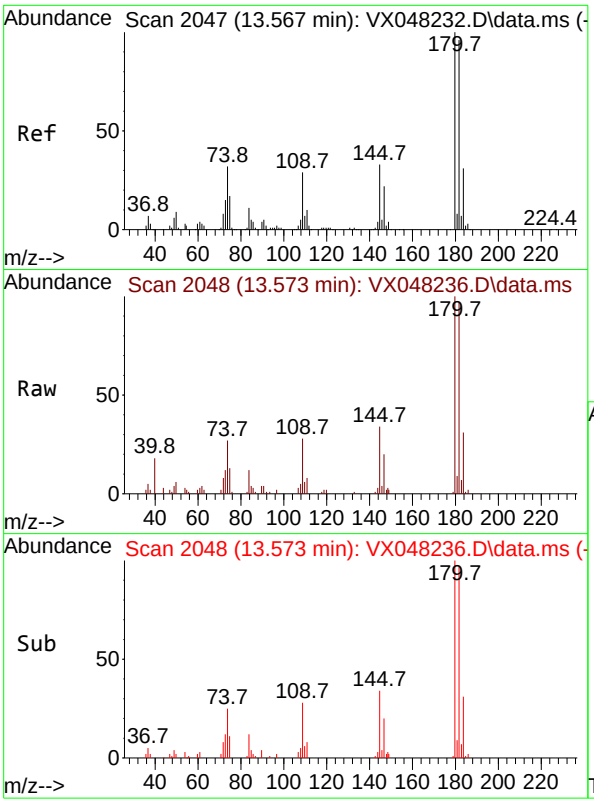


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.680 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 75 Resp: 1984

Ion	Ratio	Lower	Upper
75	100		
155	83.2	42.8	128.4
157	110.7	54.2	162.6

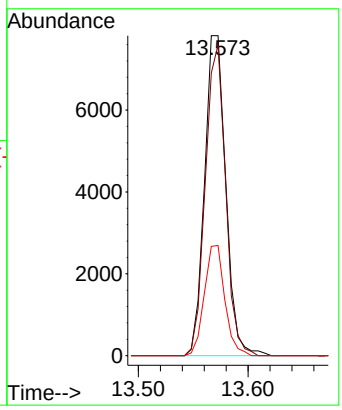




#93
1,2,4-Trichlorobenzene
Concen: 4.693 ug/l
RT: 13.573 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:180 Resp: 1053

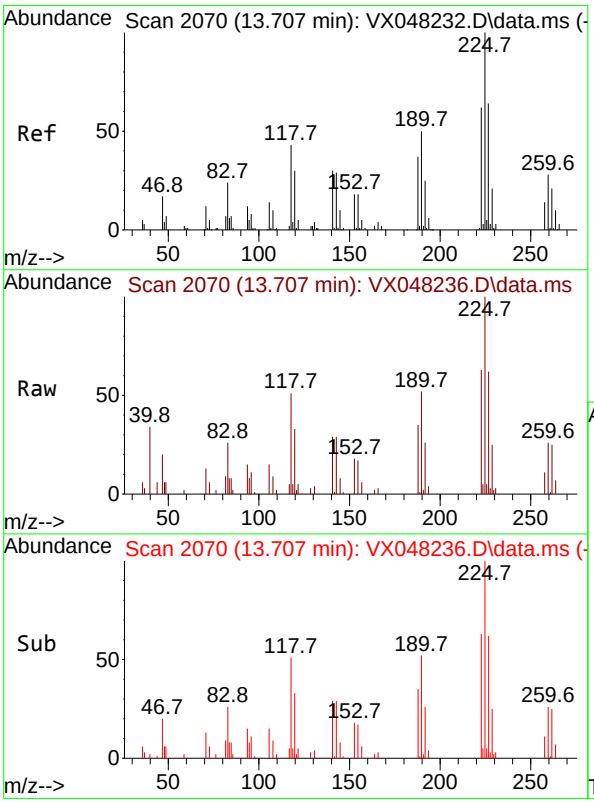
Ion	Ratio	Lower	Upper
180	100		
182	92.5	47.3	142.0
145	33.2	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

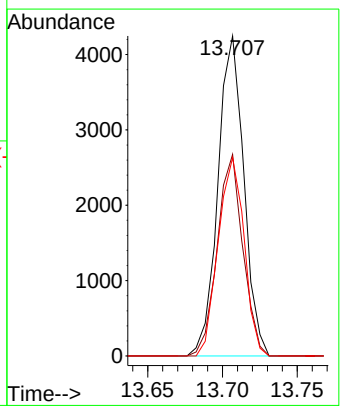
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

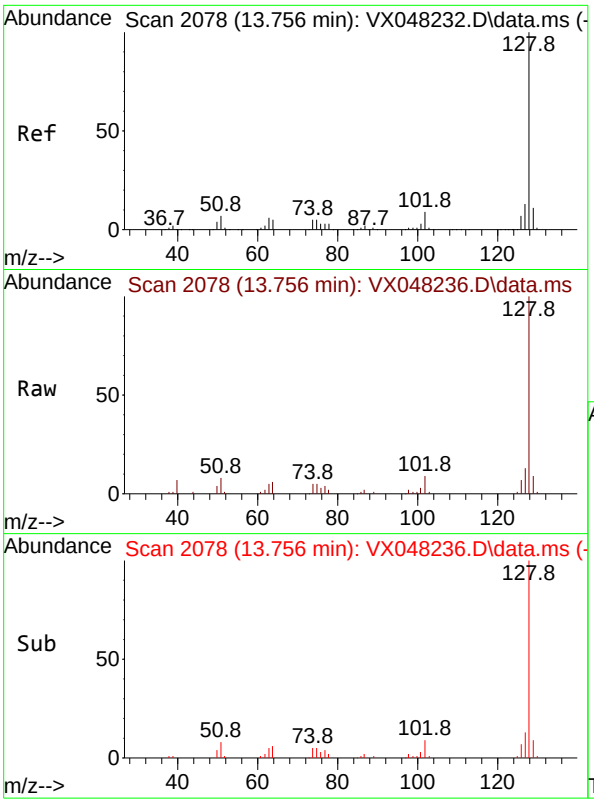


#94
Hexachlorobutadiene
Concen: 4.948 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:225 Resp: 5113

Ion	Ratio	Lower	Upper
225	100		
223	62.3	32.6	97.7
227	62.0	32.5	97.4

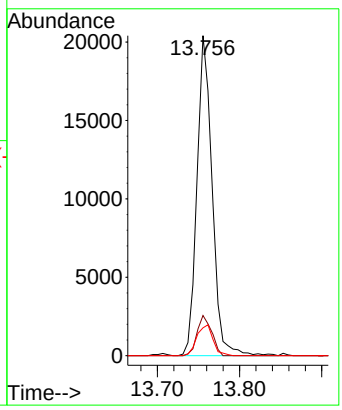




#95
Naphthalene
Concen: 4.374 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:128 Resp: 2621

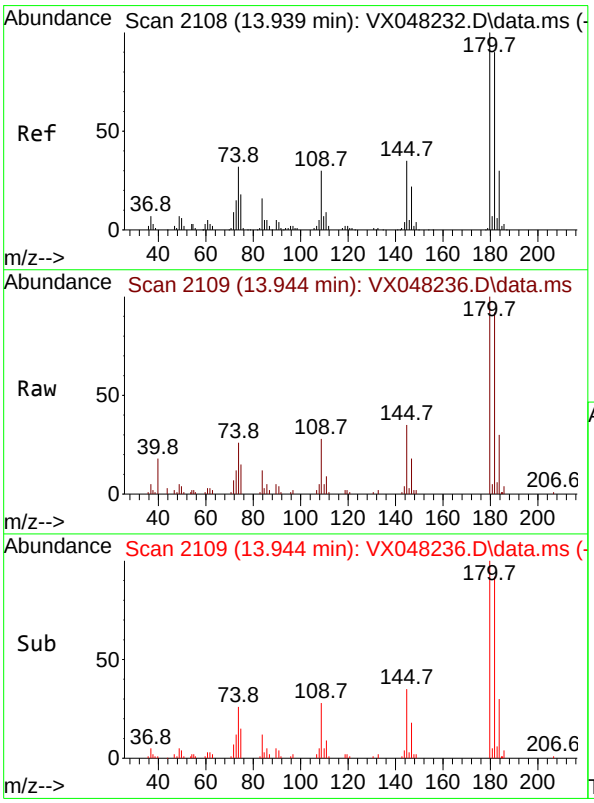
Ion	Ratio	Lower	Upper
128	100		
127	12.0	10.2	15.4
129	10.2	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

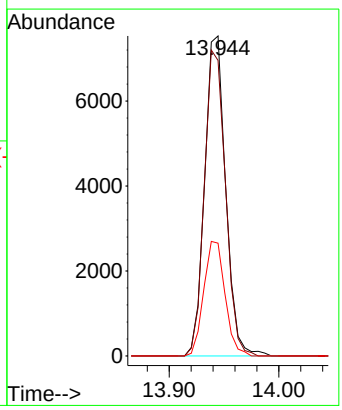
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.906 ug/l
RT: 13.944 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:180 Resp: 10040

Ion	Ratio	Lower	Upper
180	100		
182	95.7	46.6	139.7
145	36.3	16.9	50.7



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048237.D
Acq On : 20 Oct 2025 14:28
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 16:37:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.531	168	144715	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	229650	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	201397	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.000	152	99108	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	92700	45.687	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 91.380%			
35) Dibromofluoromethane	5.367	113	76746	48.951	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.900%			
50) Toluene-d8	8.628	98	265898	48.386	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 96.780%			
62) 4-Bromofluorobenzene	11.061	95	97828	46.795	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 93.580%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	76365	51.331	ug/l	99
3) Chloromethane	1.301	50	74279	53.491	ug/l	99
4) Vinyl Chloride	1.380	62	71290	55.441	ug/l	99
5) Bromomethane	1.611	94	47863	54.847	ug/l	96
6) Chloroethane	1.691	64	42556	56.320	ug/l	95
7) Trichlorofluoromethane	1.892	101	128754	52.209	ug/l	97
8) Diethyl Ether	2.136	74	37292	53.742	ug/l	89
9) 1,1,2-Trichlorotrifluo...	2.331	101	83688	53.589	ug/l	96
10) Methyl Iodide	2.453	142	94222	47.994	ug/l	99
11) Tert butyl alcohol	2.934	59	45064	223.693	ug/l	98
12) 1,1-Dichloroethene	2.319	96	79070	52.043	ug/l	92
13) Acrolein	2.233	56	51257	249.473	ug/l	98
14) Allyl chloride	2.660	41	128896	51.099	ug/l	97
15) Acrylonitrile	3.050	53	182260	250.900	ug/l	100
16) Acetone	2.373	43	152988	219.789	ug/l	96
17) Carbon Disulfide	2.514	76	233630	48.792	ug/l	99
18) Methyl Acetate	2.697	43	71506	49.190	ug/l	94
19) Methyl tert-butyl Ether	3.105	73	254812	49.162	ug/l	98
20) Methylene Chloride	2.782	84	86610	51.066	ug/l	92
21) trans-1,2-Dichloroethene	3.087	96	85000	50.932	ug/l	96
22) Diisopropyl ether	3.745	45	259934	51.665	ug/l	99
23) Vinyl Acetate	3.709	43	1045584	260.168	ug/l	97
24) 1,1-Dichloroethane	3.599	63	150557	49.490	ug/l	99
25) 2-Butanone	4.532	43	209999	238.354	ug/l	97
26) 2,2-Dichloropropane	4.458	77	132433	48.230	ug/l	100
27) cis-1,2-Dichloroethene	4.471	96	98066	50.350	ug/l	96
28) Bromochloromethane	4.879	49	58764	46.587	ug/l	87
29) Tetrahydrofuran	4.977	42	127995	242.572	ug/l	95
30) Chloroform	5.074	83	157397	48.427	ug/l	99
31) Cyclohexane	5.458	56	132594	52.646	ug/l	92
32) 1,1,1-Trichloroethane	5.361	97	144706	48.309	ug/l	98
36) 1,1-Dichloropropene	5.672	75	109957	49.344	ug/l	100
37) Ethyl Acetate	4.690	43	88074	47.684	ug/l	98
38) Carbon Tetrachloride	5.659	117	132590	48.228	ug/l	99
39) Methylcyclohexane	7.360	83	138611	52.670	ug/l	94
40) Benzene	6.019	78	325041	50.241	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048237.D
Acq On : 20 Oct 2025 14:28
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 16:37:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.891	41	48846	50.358	ug/l		95
42) 1,2-Dichloroethane	6.068	62	116893	48.963	ug/l		98
43) Isopropyl Acetate	6.318	43	151140	49.816	ug/l		95
44) Trichloroethene	7.104	130	86410	50.582	ug/l		96
45) 1,2-Dichloropropane	7.409	63	78439	50.994	ug/l		98
46) Dibromomethane	7.562	93	58616	48.913	ug/l		94
47) Bromodichloromethane	7.799	83	125388	48.459	ug/l		99
48) Methyl methacrylate	7.671	41	75812	49.519	ug/l		94
49) 1,4-Dioxane	7.635	88	20230	1000.197	ug/l		90
51) 4-Methyl-2-Pentanone	8.555	43	428393	244.897	ug/l		95
52) Toluene	8.702	92	205867	50.088	ug/l		99
53) t-1,3-Dichloropropene	8.958	75	124683	50.004	ug/l		100
54) cis-1,3-Dichloropropene	8.348	75	134360	49.944	ug/l		93
55) 1,1,2-Trichloroethane	9.134	97	75808	49.597	ug/l		98
56) Ethyl methacrylate	9.098	69	111702	49.964	ug/l		94
57) 1,3-Dichloropropane	9.287	76	128519	49.226	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.220	63	290992	242.124	ug/l		96
59) 2-Hexanone	9.409	43	300183	246.102	ug/l		96
60) Dibromochloromethane	9.500	129	97643	47.530	ug/l		99
61) 1,2-Dibromoethane	9.592	107	80363	49.319	ug/l		97
64) Tetrachloroethene	9.256	164	73198	48.686	ug/l		95
65) Chlorobenzene	10.061	112	226953	50.095	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.140	131	81561	49.014	ug/l		99
67) Ethyl Benzene	10.177	91	391830	50.798	ug/l		99
68) m/p-Xylenes	10.281	106	293516	102.416	ug/l		99
69) o-Xylene	10.622	106	139515	50.424	ug/l		99
70) Styrene	10.634	104	243341	51.651	ug/l		100
71) Bromoform	10.781	173	64170	48.250	ug/l	#	99
73) Isopropylbenzene	10.945	105	373948	51.658	ug/l		100
74) N-amyl acetate	10.823	43	131979	51.399	ug/l		96
75) 1,1,2,2-Tetrachloroethane	11.195	83	98715	49.936	ug/l		98
76) 1,2,3-Trichloropropane	11.219	75	81093m	50.456	ug/l		
77) Bromobenzene	11.177	156	91000	50.135	ug/l		94
78) n-propylbenzene	11.287	91	435662	51.980	ug/l		99
79) 2-Chlorotoluene	11.341	91	257936	50.760	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	305027	50.918	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	33027	49.995	ug/l		96
82) 4-Chlorotoluene	11.433	91	304670	50.507	ug/l		98
83) tert-Butylbenzene	11.695	119	309524	50.288	ug/l		99
84) 1,2,4-Trimethylbenzene	11.732	105	308529	51.607	ug/l		100
85) sec-Butylbenzene	11.872	105	379368	51.230	ug/l		100
86) p-Isopropyltoluene	11.988	119	324425	50.686	ug/l		100
87) 1,3-Dichlorobenzene	11.951	146	165027	48.229	ug/l		98
88) 1,4-Dichlorobenzene	12.024	146	168102	47.423	ug/l		99
89) n-Butylbenzene	12.311	91	289706	49.728	ug/l		99
90) Hexachloroethane	12.518	117	61223	48.437	ug/l		95
91) 1,2-Dichlorobenzene	12.317	146	157812	49.123	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	19691	49.072	ug/l		98
93) 1,2,4-Trichlorobenzene	13.567	180	101983	46.941	ug/l		99
94) Hexachlorobutadiene	13.707	225	39299	48.274	ug/l		99
95) Naphthalene	13.756	128	289882	50.362	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	96139	48.223	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048237.D
Acq On : 20 Oct 2025 14:28
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 16:37:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

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

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

ICAL Form

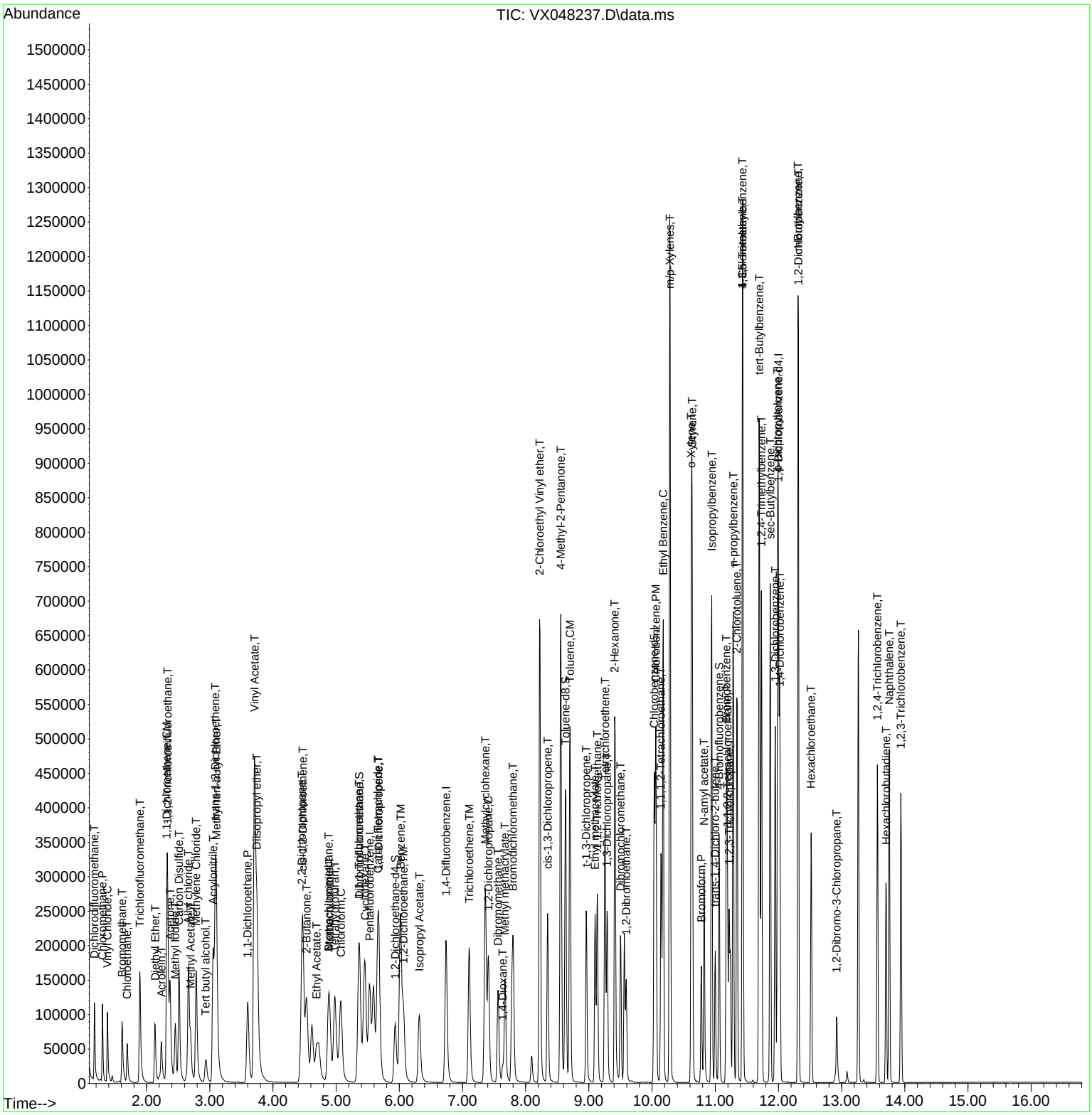
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048237.D
Acq On : 20 Oct 2025 14:28
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

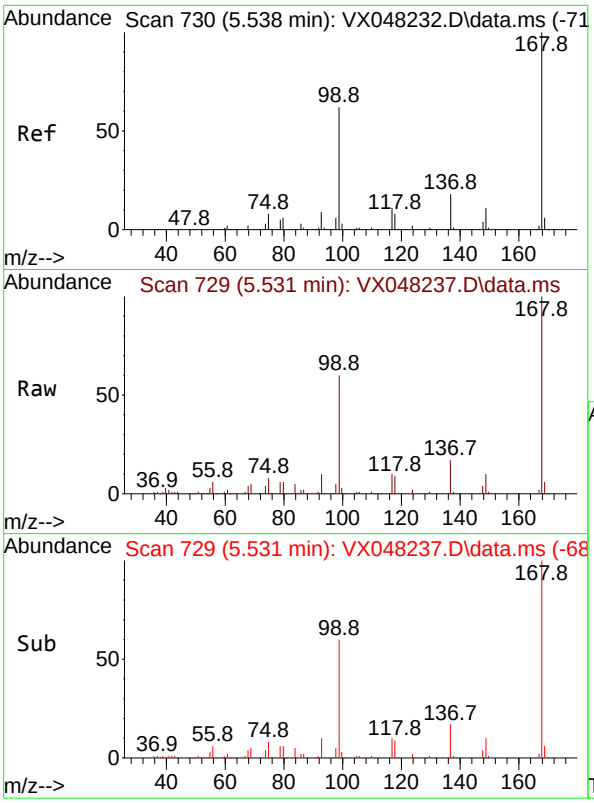
Quant Time: Oct 20 16:37:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

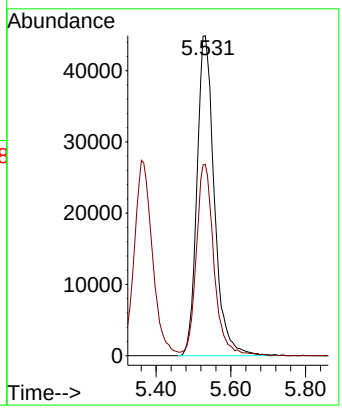




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 7
Delta R.T. -0.013 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:168 Resp: 14471

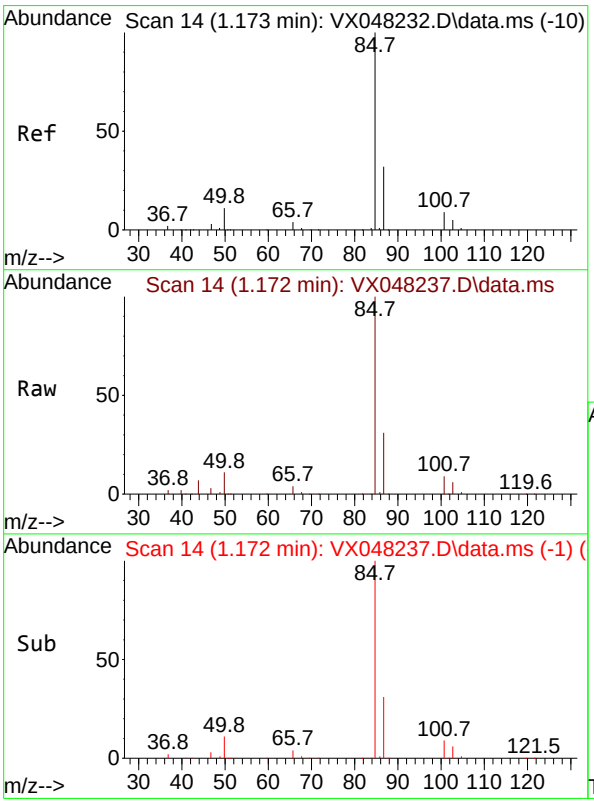
Ion	Ratio	Lower	Upper
168	100		
99	59.7	46.4	69.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

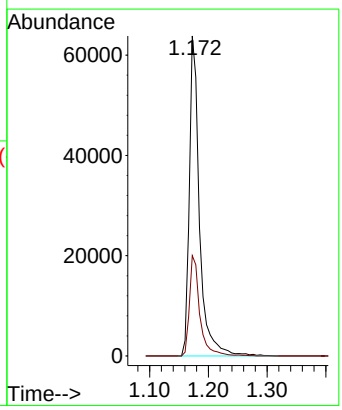
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

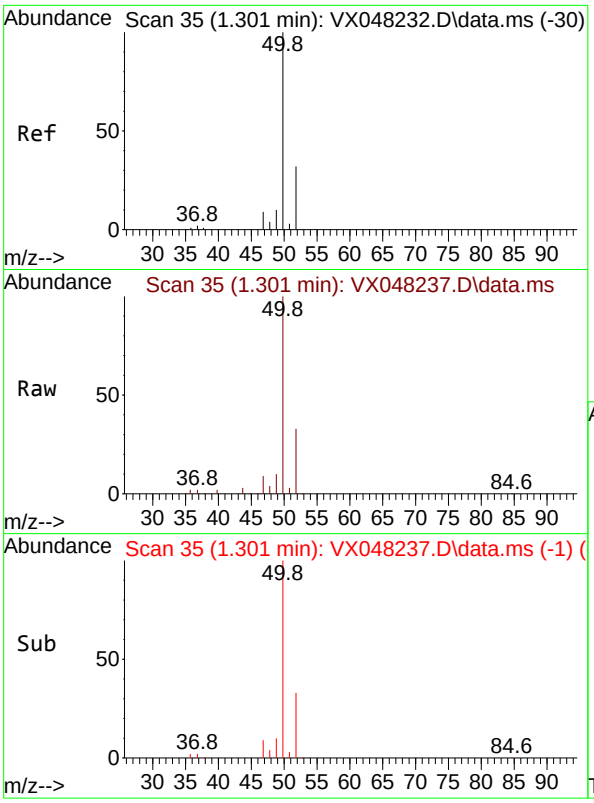


#2
Dichlorodifluoromethane
Concen: 51.331 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 85 Resp: 76365

Ion	Ratio	Lower	Upper
85	100		
87	31.4	15.3	45.9

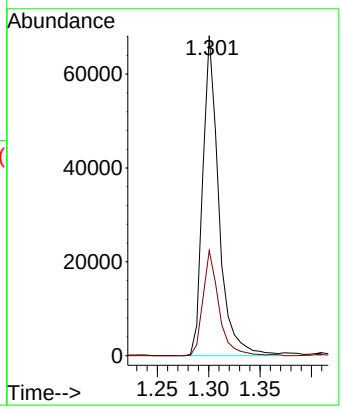




#3
Chloromethane
Concen: 53.491 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 50 Resp: 7427

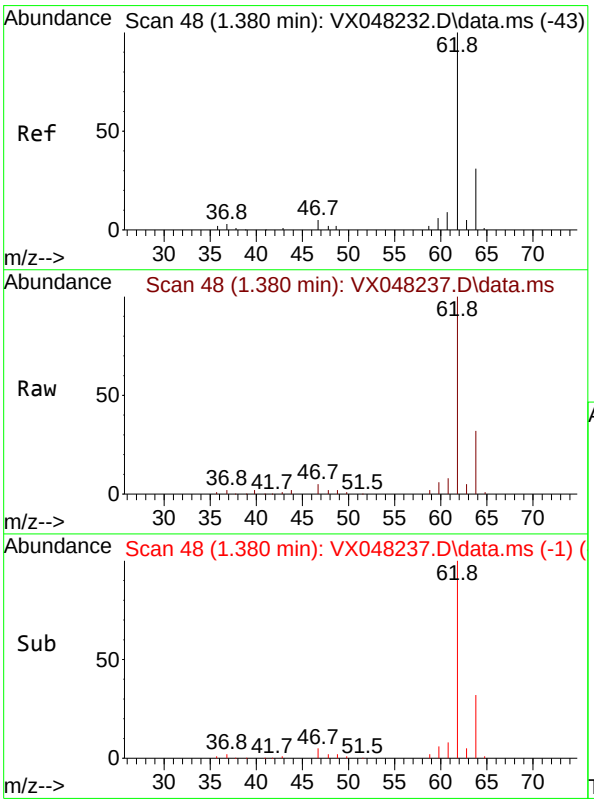
Ion	Ratio	Lower	Upper
50	100		
52	32.9	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

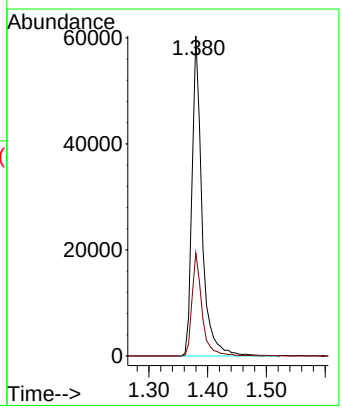
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

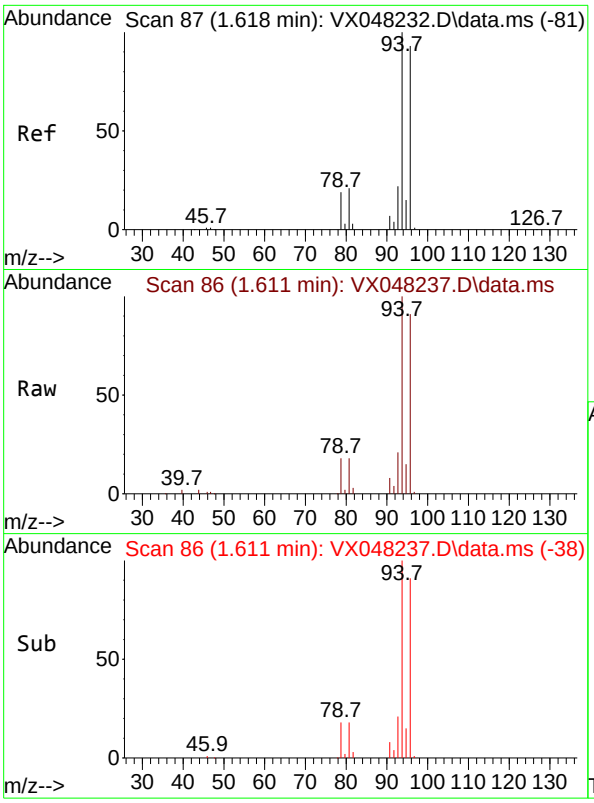


#4
Vinyl Chloride
Concen: 55.441 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 62 Resp: 71290

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.1	37.7

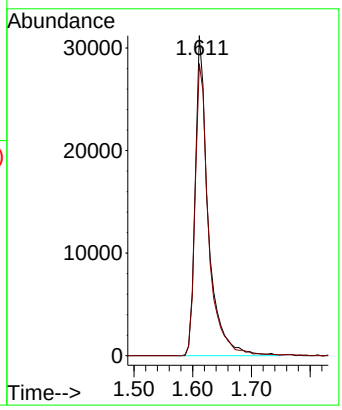




#5
Bromomethane
Concen: 54.847 ug/l
RT: 1.611 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 94 Resp: 4786

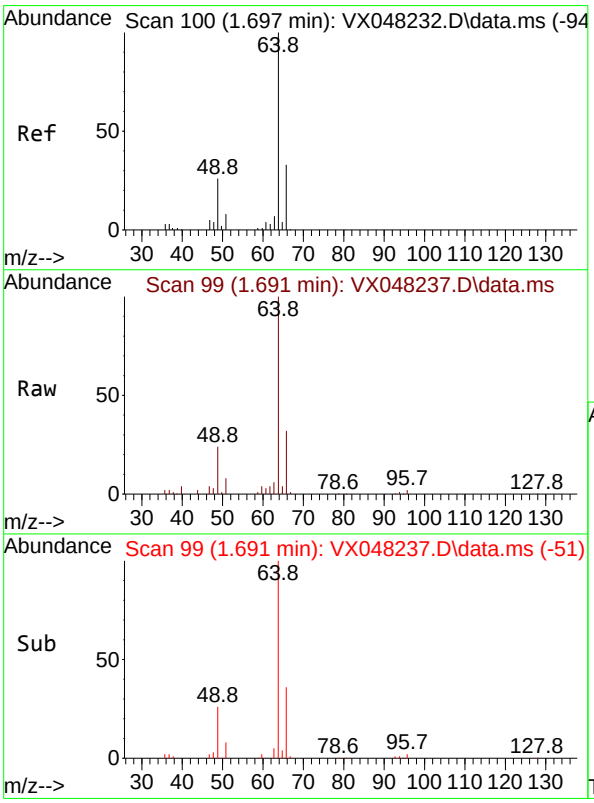
Ion	Ratio	Lower	Upper
94	100		
96	91.2	76.0	114.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

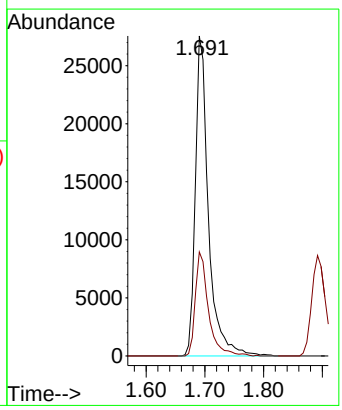
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

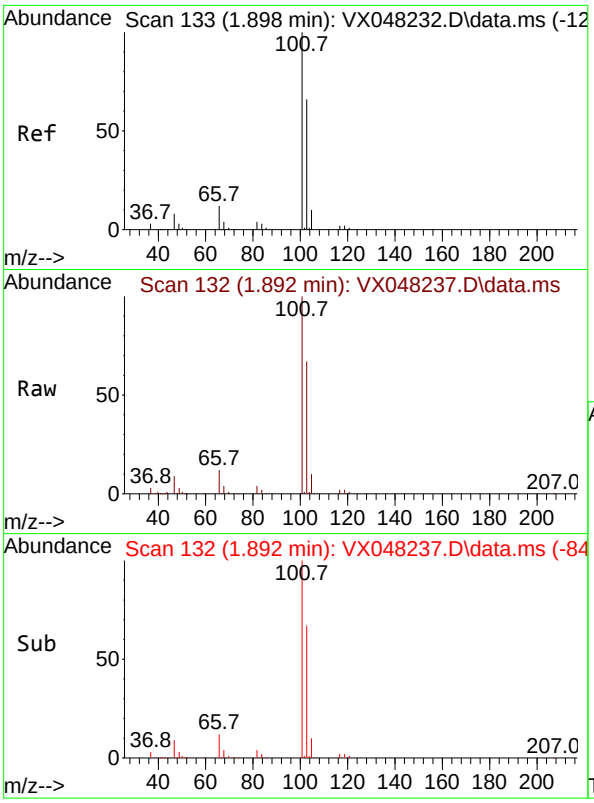


#6
Chloroethane
Concen: 56.320 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 64 Resp: 42556

Ion	Ratio	Lower	Upper
64	100		
66	32.5	23.9	35.9





#7
Trichlorofluoromethane
Concen: 52.209 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

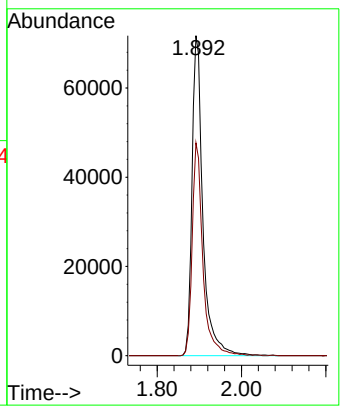
Tgt Ion:101 Resp: 12875

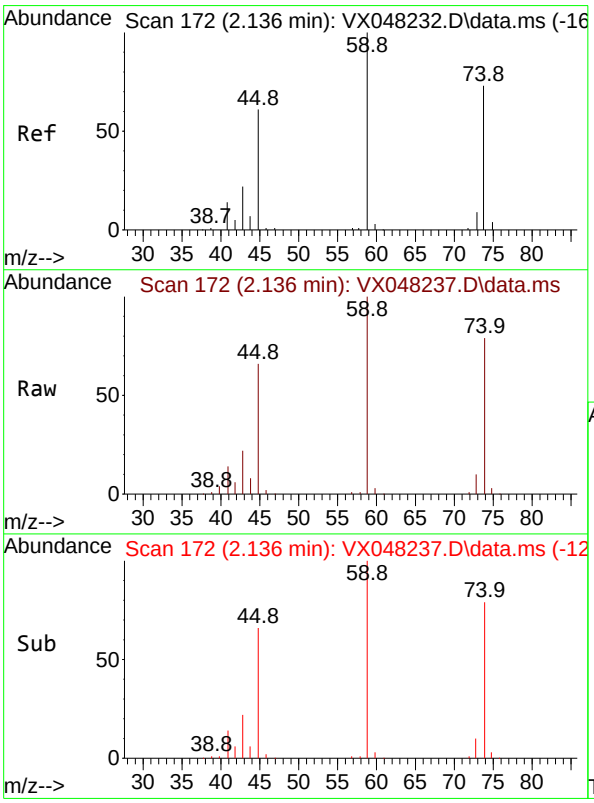
Ion	Ratio	Lower	Upper
101	100		
103	66.5	51.6	77.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

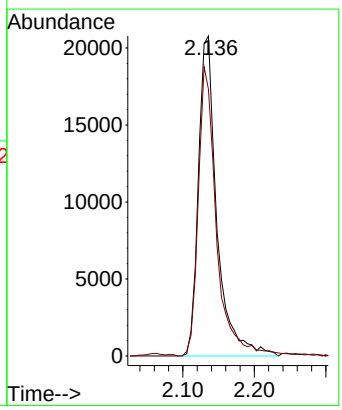


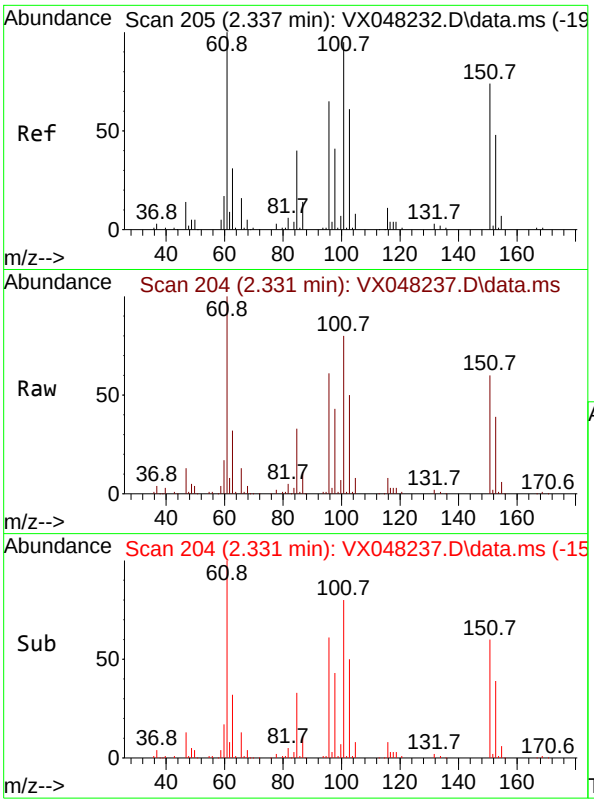


#8
Diethyl Ether
Concen: 53.742 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 74 Resp: 37292

Ion	Ratio	Lower	Upper
74	100		
45	89.3	50.0	149.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 53.589 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

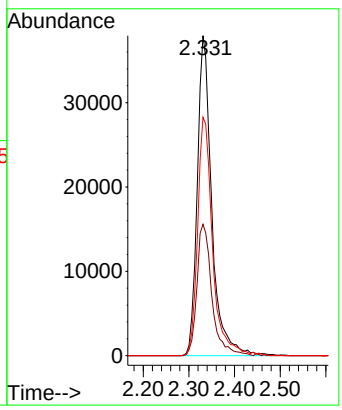
Tgt Ion:101 Resp: 8368

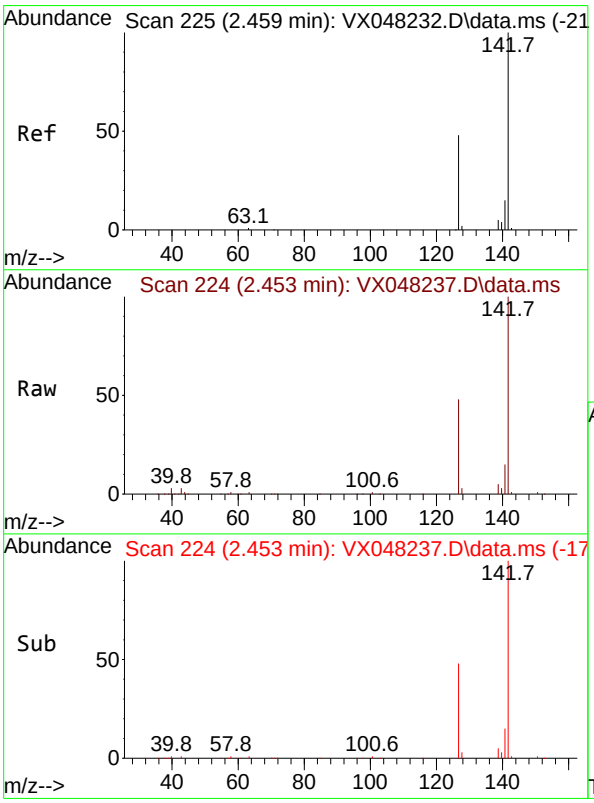
Ion	Ratio	Lower	Upper
101	100		
85	42.4	35.6	53.4
151	76.9	58.0	87.0

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

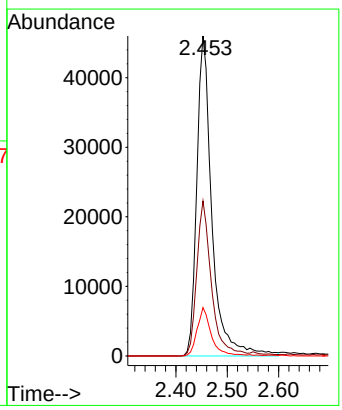


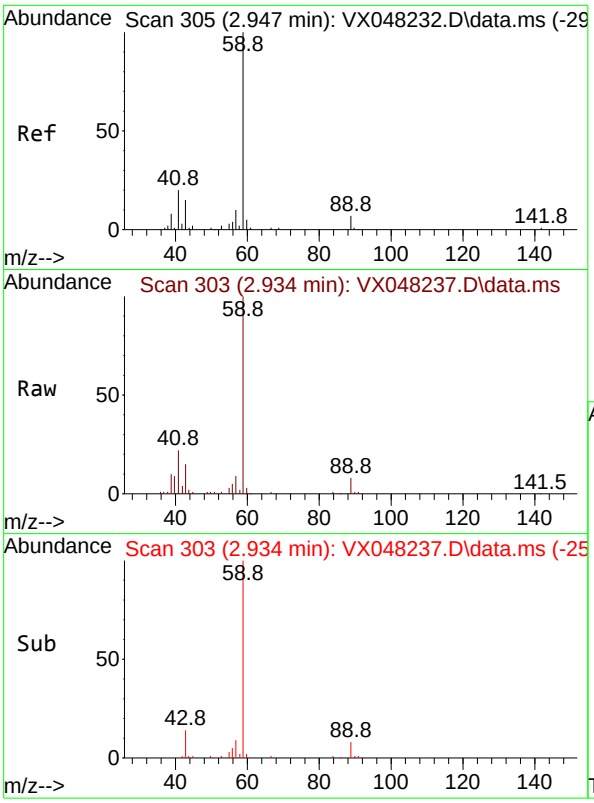


#10
Methyl Iodide
Concen: 47.994 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:142 Resp: 94222

Ion	Ratio	Lower	Upper
142	100		
127	46.9	38.5	57.7
141	14.3	11.6	17.4

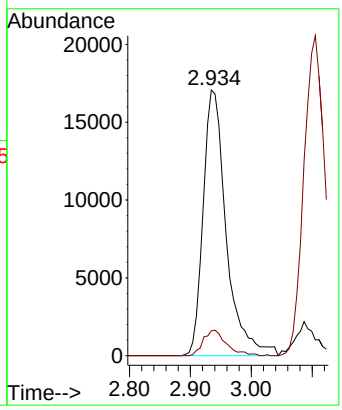




#11
Tert butyl alcohol
Concen: 223.693 ug/l
RT: 2.934 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 59 Resp: 4506

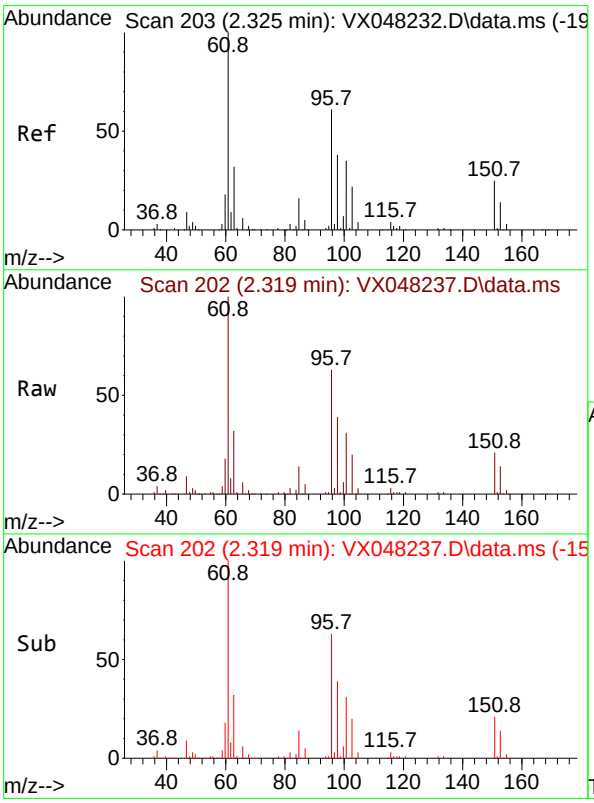
Ion	Ratio	Lower	Upper
59	100		
57	9.6	8.2	12.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

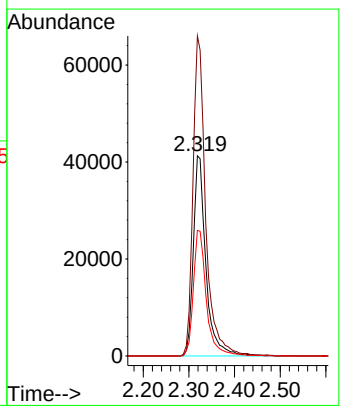
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

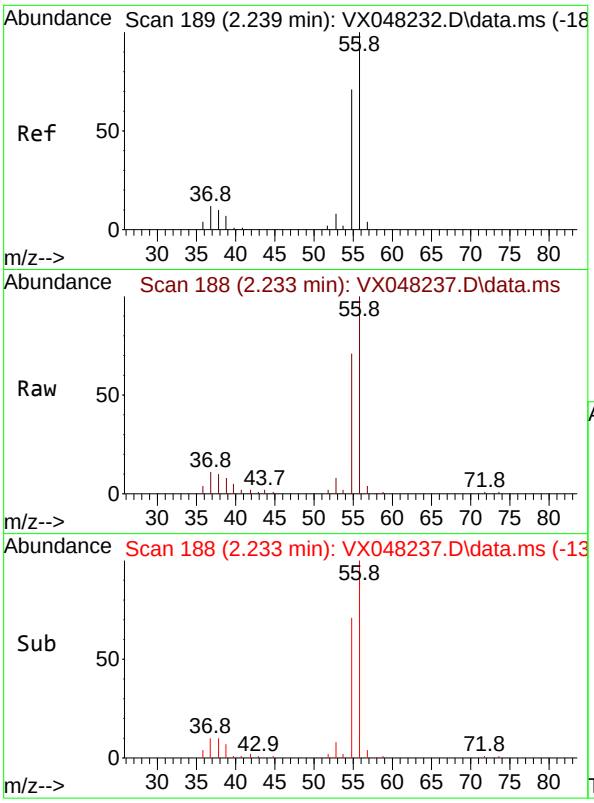


#12
1,1-Dichloroethene
Concen: 52.043 ug/l
RT: 2.319 min Scan# 202
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 96 Resp: 79070

Ion	Ratio	Lower	Upper
96	100		
61	159.8	139.0	208.6
98	62.7	52.4	78.6

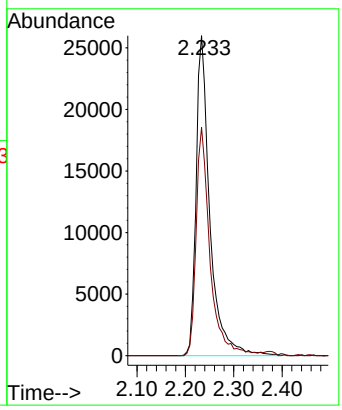




#13
Acrolein
Concen: 249.473 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 56 Resp: 5125

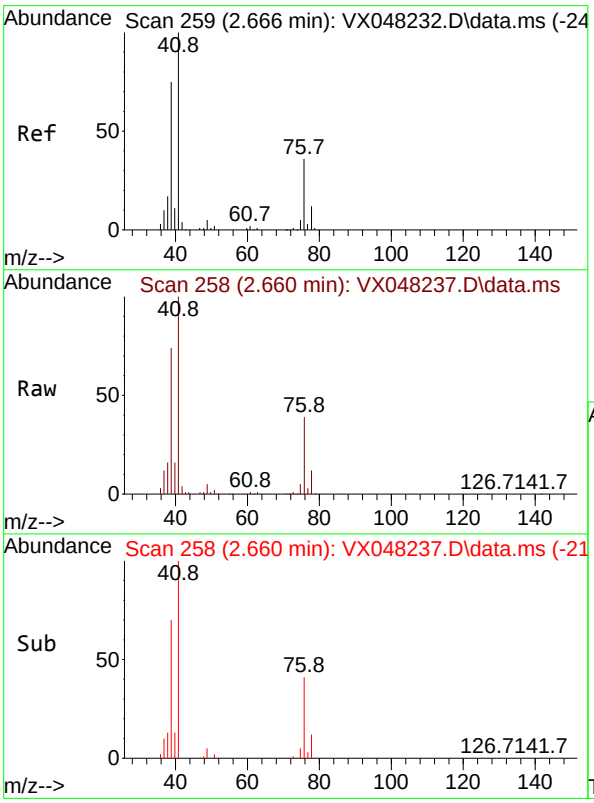
Ion	Ratio	Lower	Upper
56	100		
55	71.7	56.1	84.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

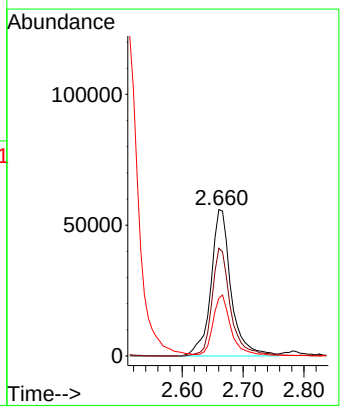
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

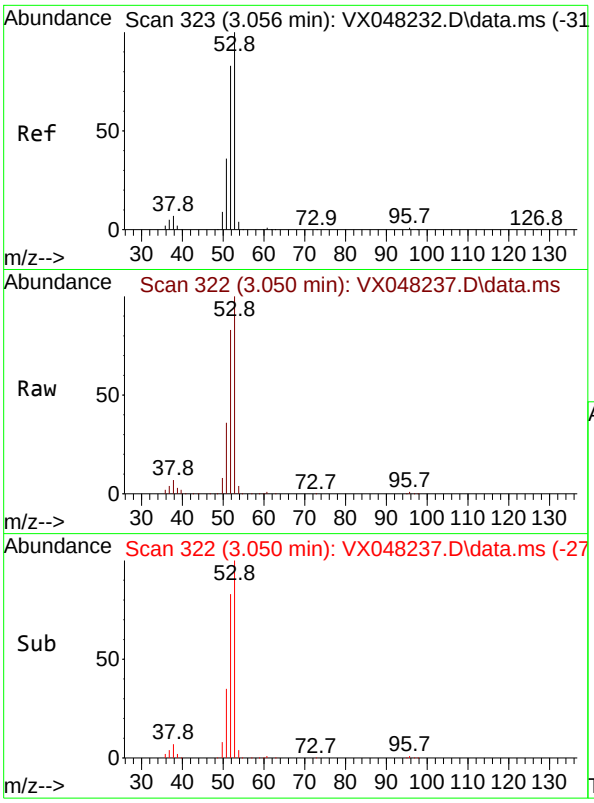


#14
Allyl chloride
Concen: 51.099 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 41 Resp: 128896

Ion	Ratio	Lower	Upper
41	100		
39	68.0	56.0	84.0
76	37.0	27.5	41.3

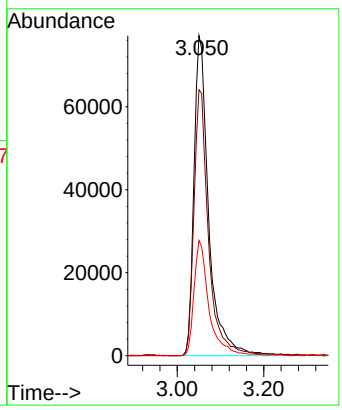




#15
Acrylonitrile
Concen: 250.900 ug/l
RT: 3.050 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 53 Resp: 18226

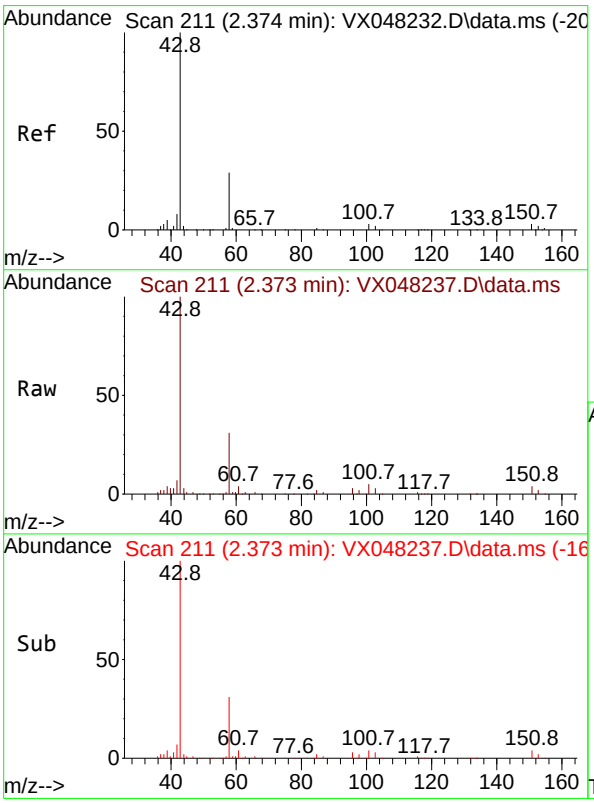
Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.1	99.1
51	36.8	29.0	43.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

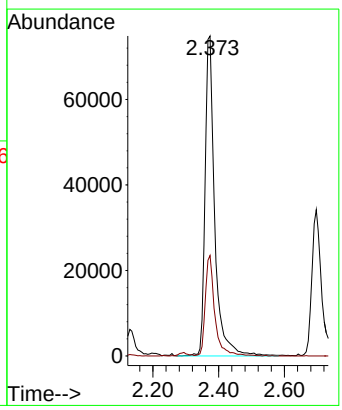
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

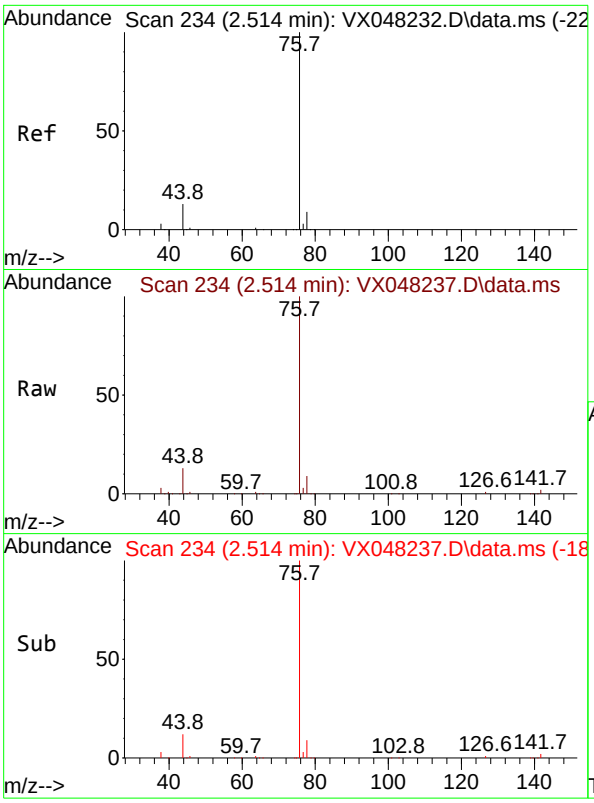


#16
Acetone
Concen: 219.789 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 43 Resp: 152988

Ion	Ratio	Lower	Upper
43	100		
58	31.4	23.4	35.2





#17
Carbon Disulfide
Concen: 48.792 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

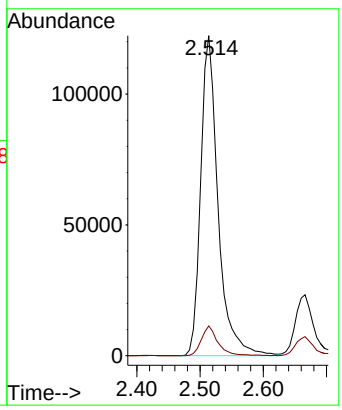
Tgt Ion: 76 Resp: 23363

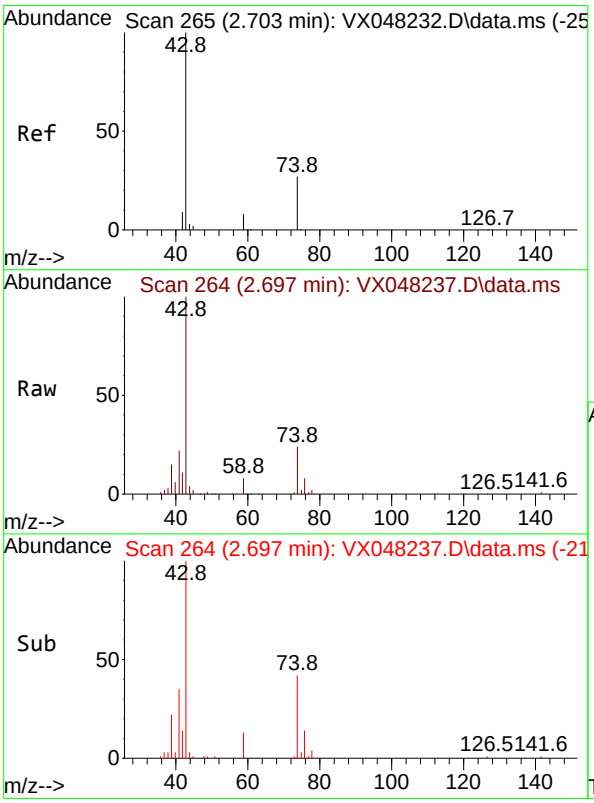
Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.1	10.7

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

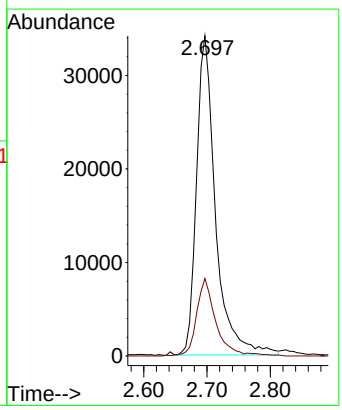


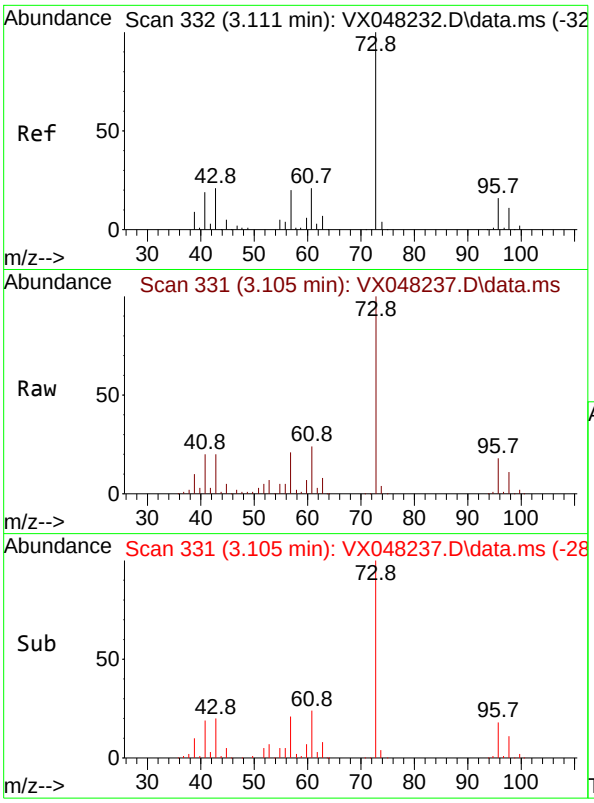


#18
Methyl Acetate
Concen: 49.190 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 43 Resp: 71506

Ion	Ratio	Lower	Upper
43	100		
74	24.7	17.5	26.3

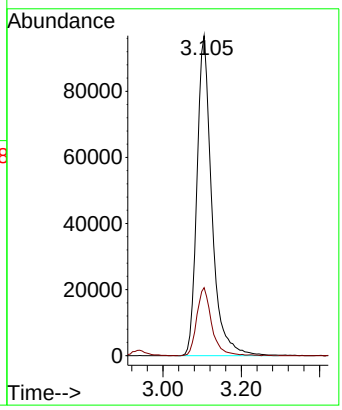




#19
Methyl tert-butyl Ether
Concen: 49.162 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 73 Resp: 25481

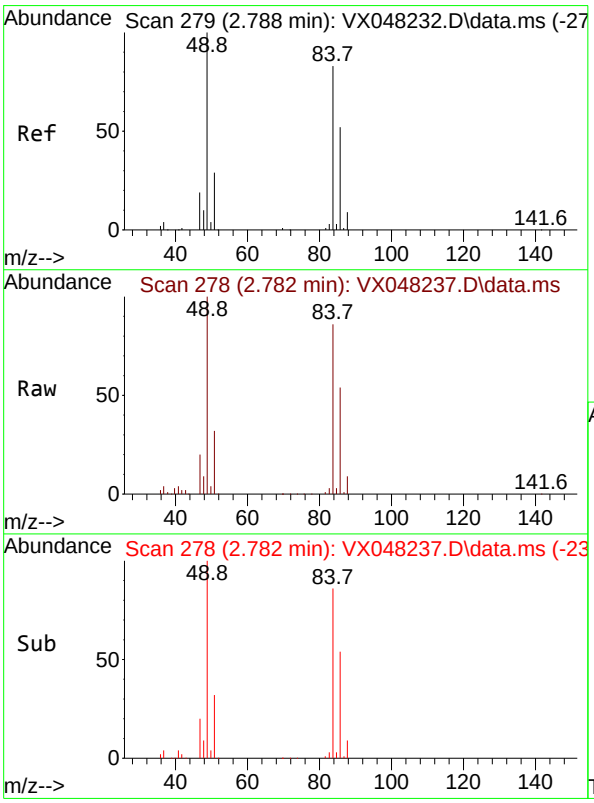
Ion	Ratio	Lower	Upper
73	100		
57	21.2	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

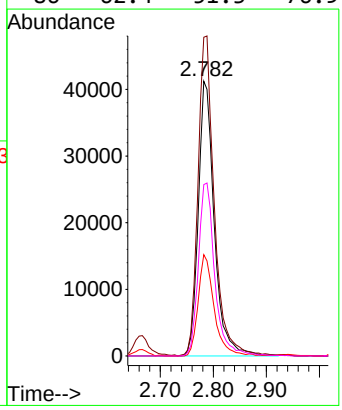
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

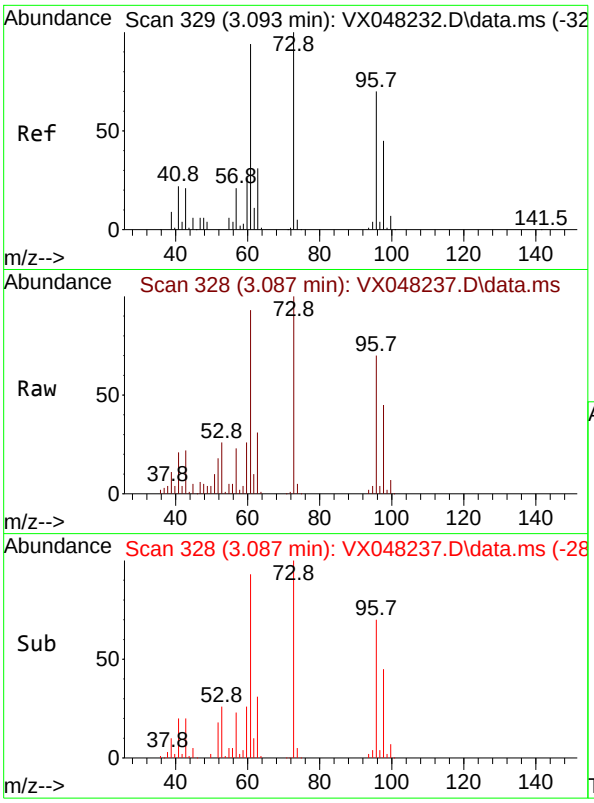


#20
Methylene Chloride
Concen: 51.066 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 84 Resp: 86610

Ion	Ratio	Lower	Upper
84	100		
49	116.0	104.1	156.1
51	36.8	31.3	46.9
86	62.4	51.3	76.9

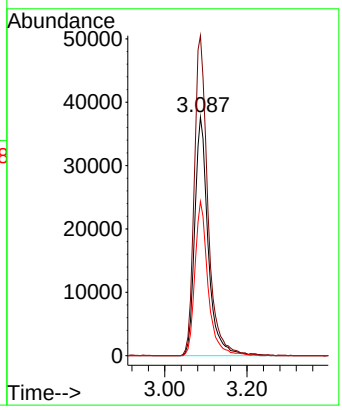




#21
trans-1,2-Dichloroethene
Concen: 50.932 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 96 Resp: 8500

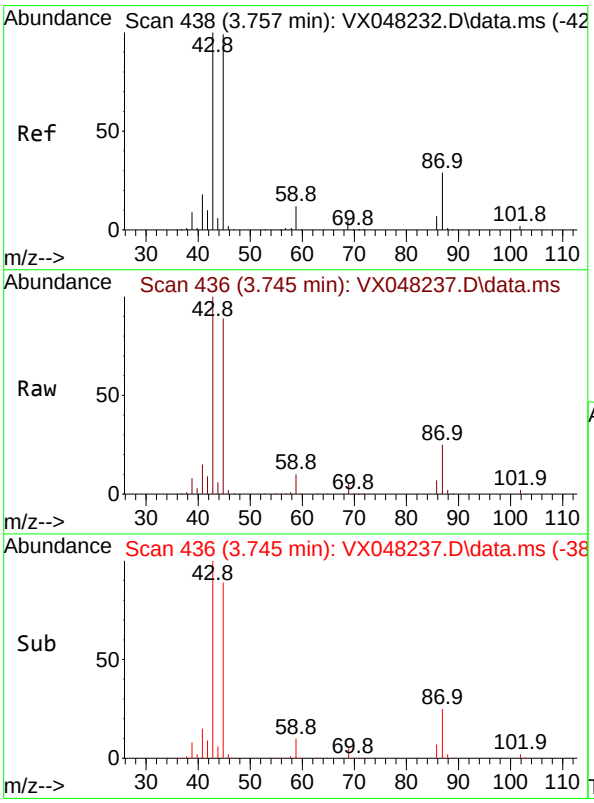
Ion	Ratio	Lower	Upper
96	100		
61	134.2	111.9	167.9
98	64.7	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

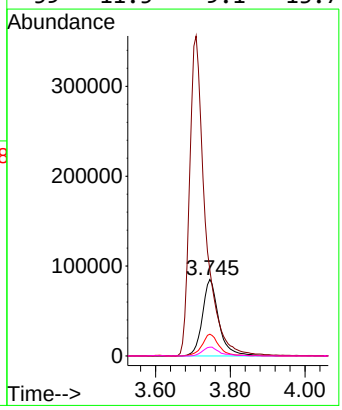
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

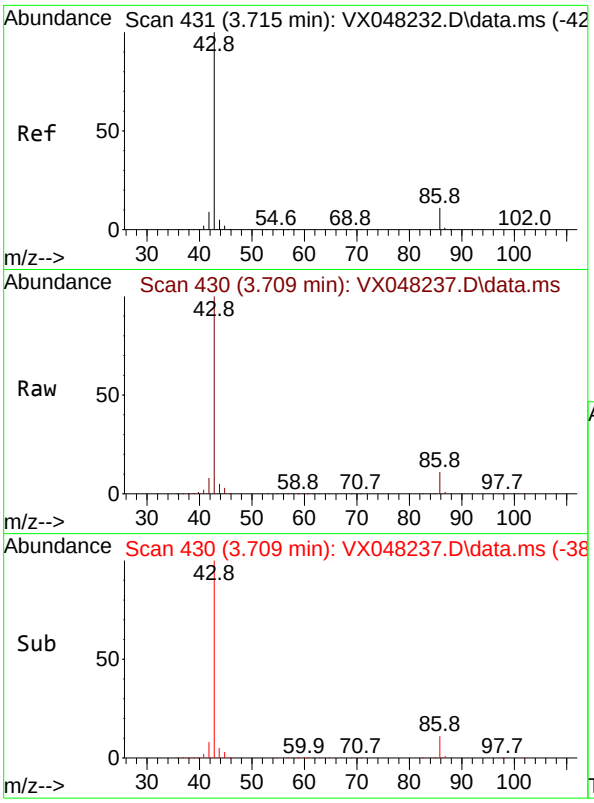


#22
Diisopropyl ether
Concen: 51.665 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 45 Resp: 259934

Ion	Ratio	Lower	Upper
45	100		
43	111.4	89.8	134.8
87	28.3	20.6	31.0
59	11.5	9.1	13.7





#23
Vinyl Acetate
Concen: 260.168 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

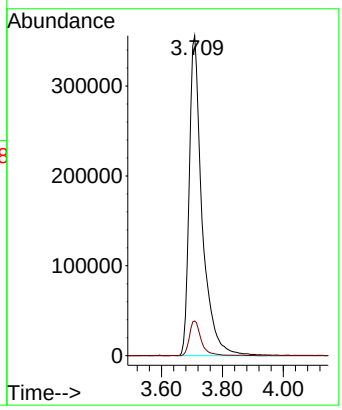
Tgt Ion: 43 Resp: 104558

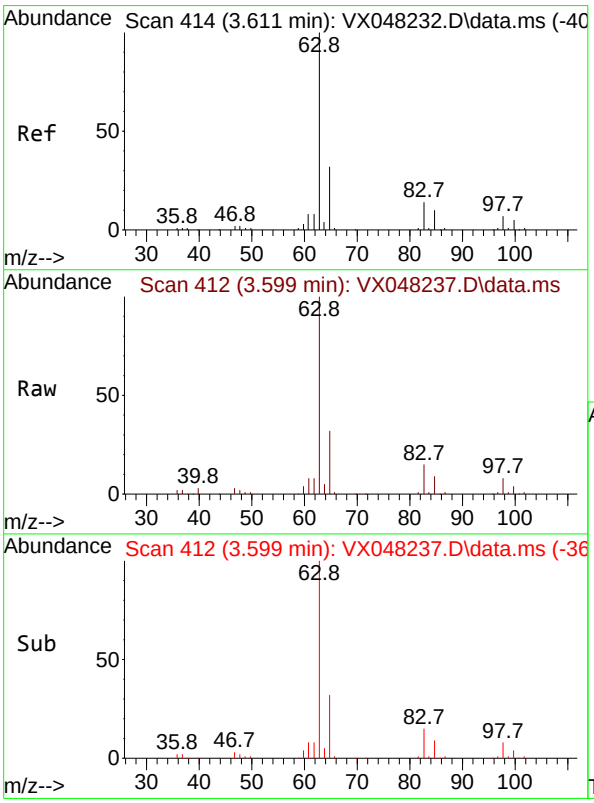
Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

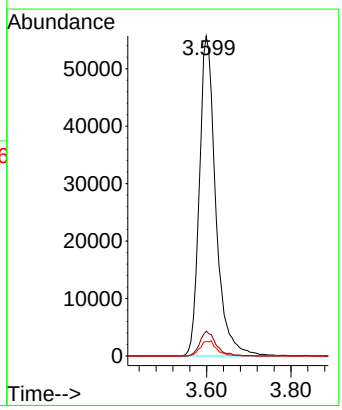


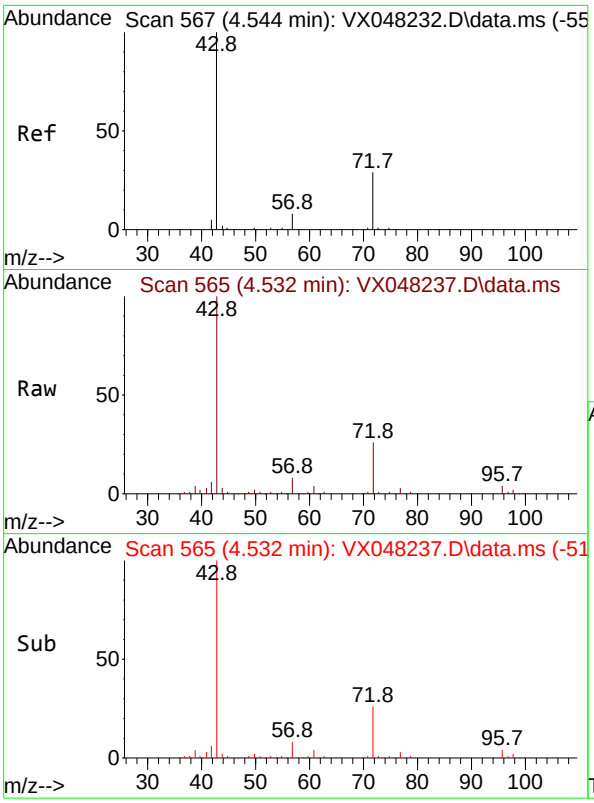


#24
1,1-Dichloroethane
Concen: 49.490 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 63 Resp: 150557

Ion	Ratio	Lower	Upper
63	100		
98	7.7	3.5	10.6
100	4.5	2.1	6.3

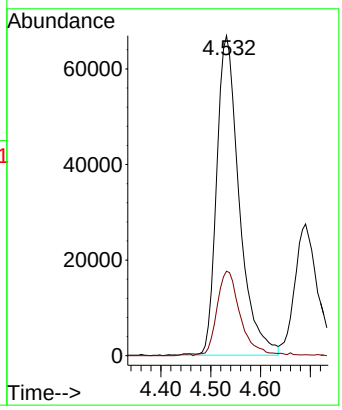




#25
2-Butanone
Concen: 238.354 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 43 Resp: 20999

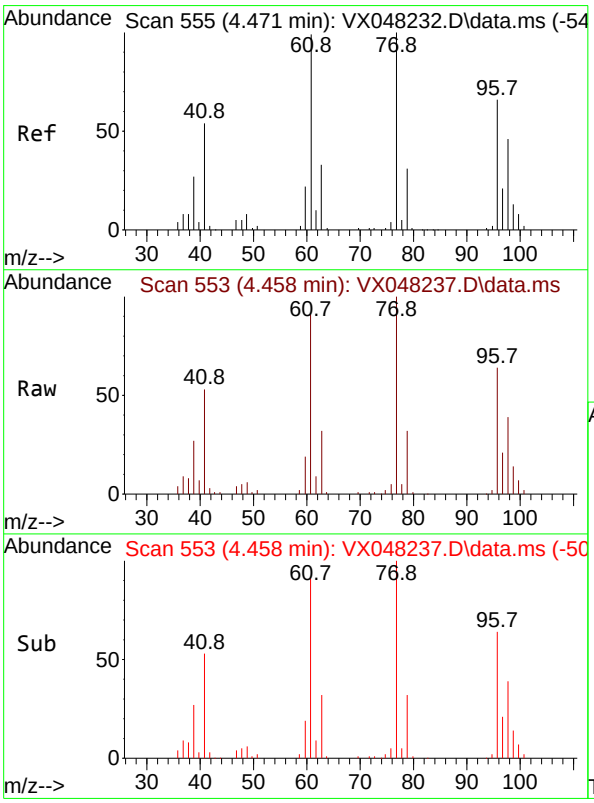
Ion	Ratio	Lower	Upper
43	100		
72	26.3	19.9	29.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

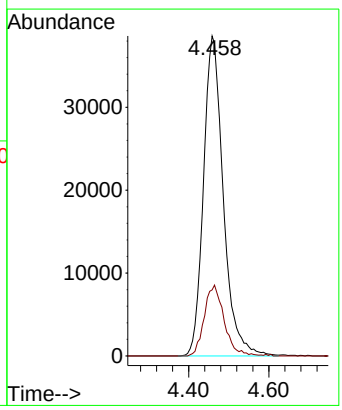
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

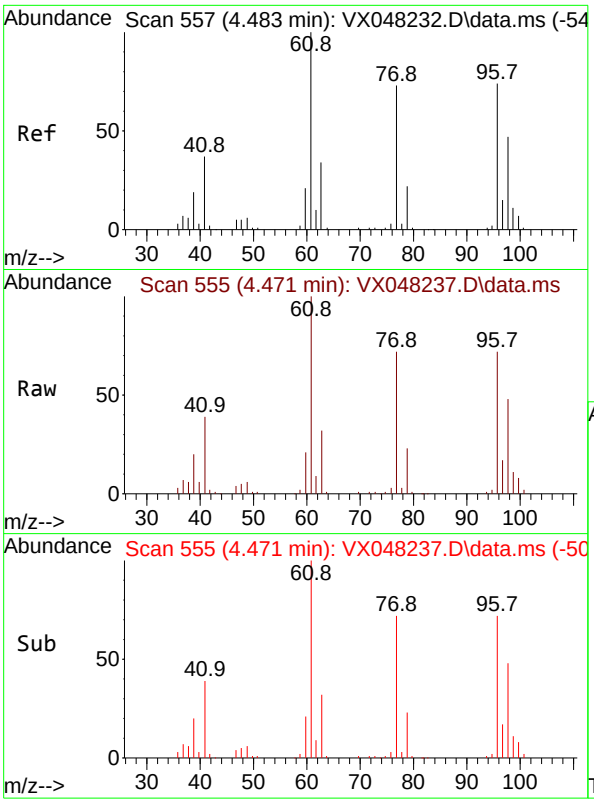


#26
2,2-Dichloropropane
Concen: 48.230 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 77 Resp: 132433

Ion	Ratio	Lower	Upper
77	100		
97	22.1	11.1	33.3

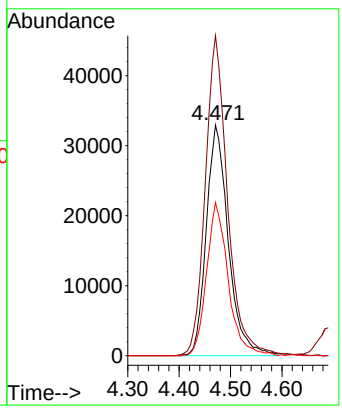




#27
cis-1,2-Dichloroethene
Concen: 50.350 ug/l
RT: 4.471 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 96 Resp: 9806

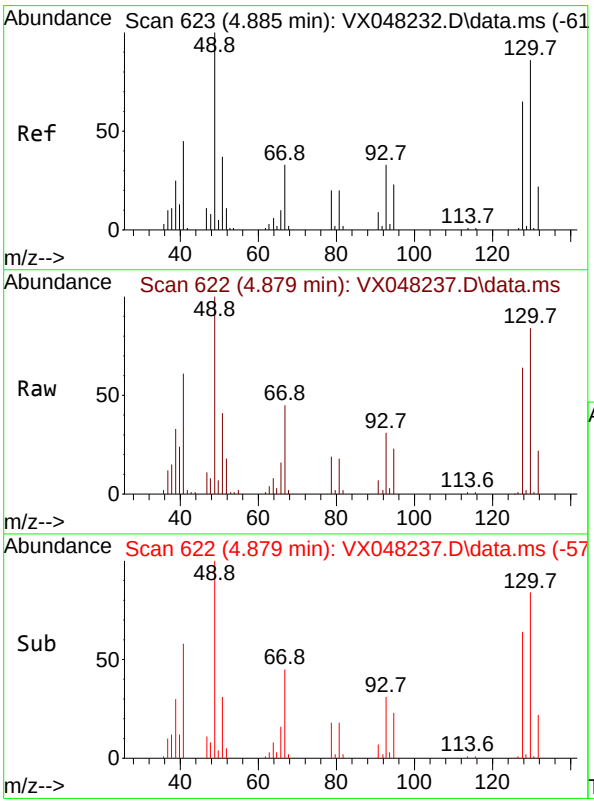
Ion	Ratio	Lower	Upper
96	100		
61	140.3	0.0	294.2
98	65.2	0.0	128.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

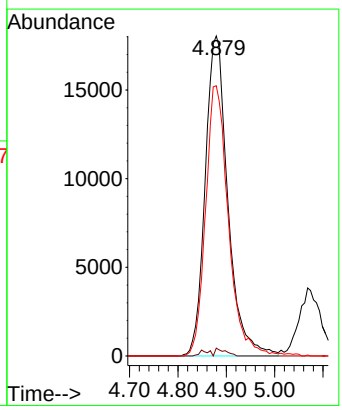
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

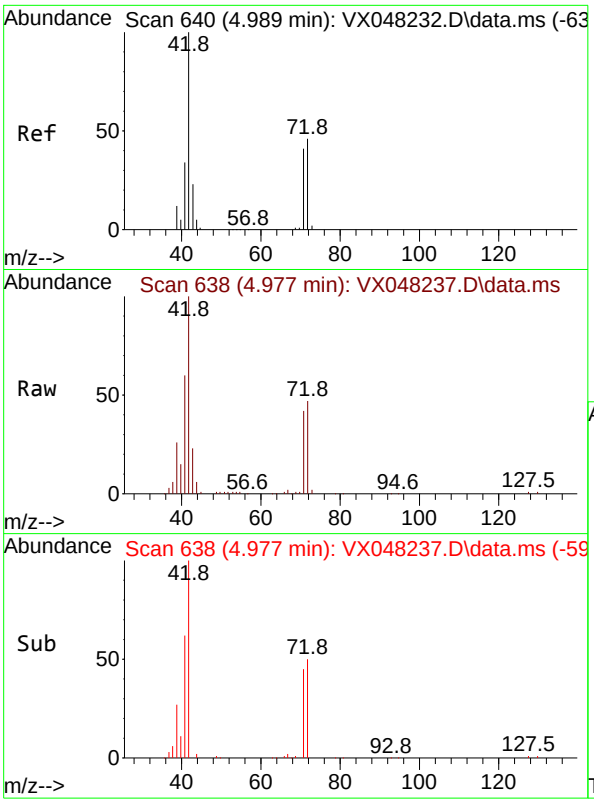


#28
Bromochloromethane
Concen: 46.587 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 49 Resp: 58764

Ion	Ratio	Lower	Upper
49	100		
129	1.1	0.0	4.4
130	85.1	59.3	88.9





#29
Tetrahydrofuran
Concen: 242.572 ug/l
RT: 4.977 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

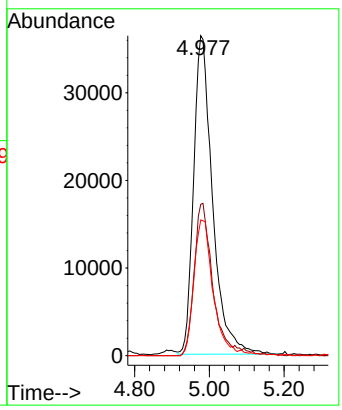
Tgt Ion: 42 Resp: 12799

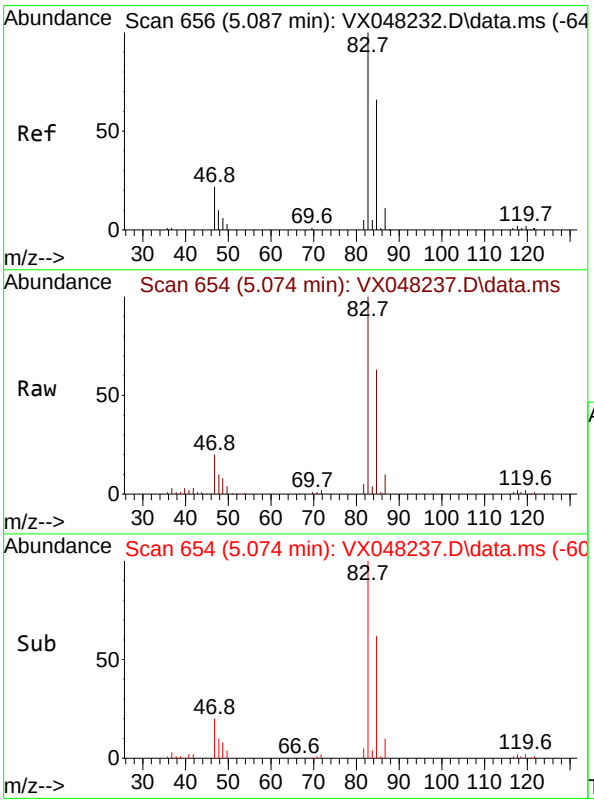
Ion	Ratio	Lower	Upper
42	100		
72	47.4	35.3	52.9
71	43.8	32.2	48.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

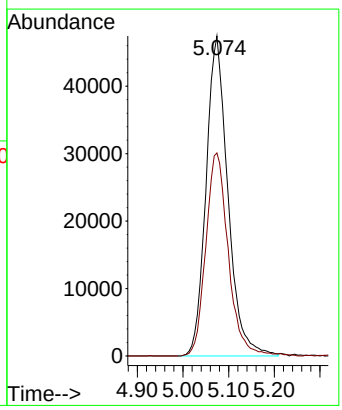


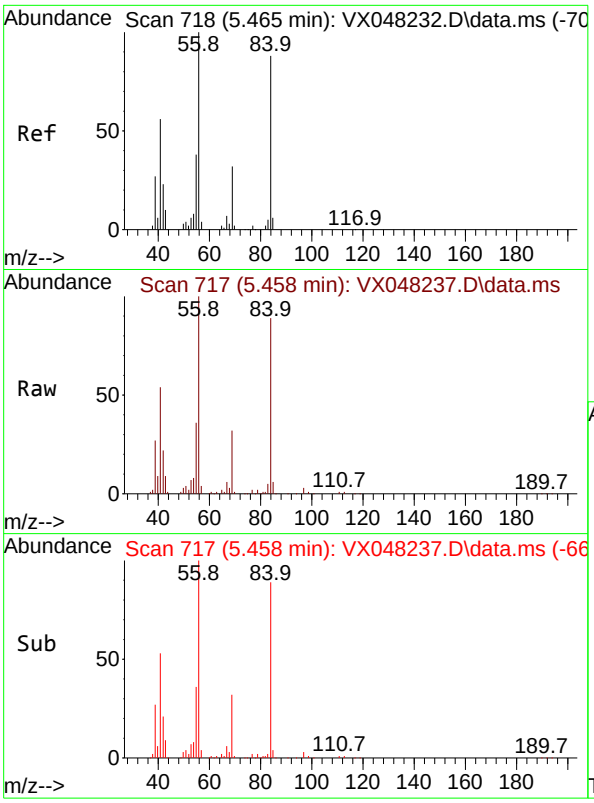


#30
Chloroform
Concen: 48.427 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 83 Resp: 157397

Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.1	75.1





#31
Cyclohexane
Concen: 52.646 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

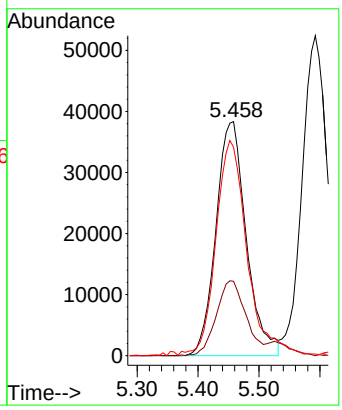
Tgt Ion: 56 Resp: 13259

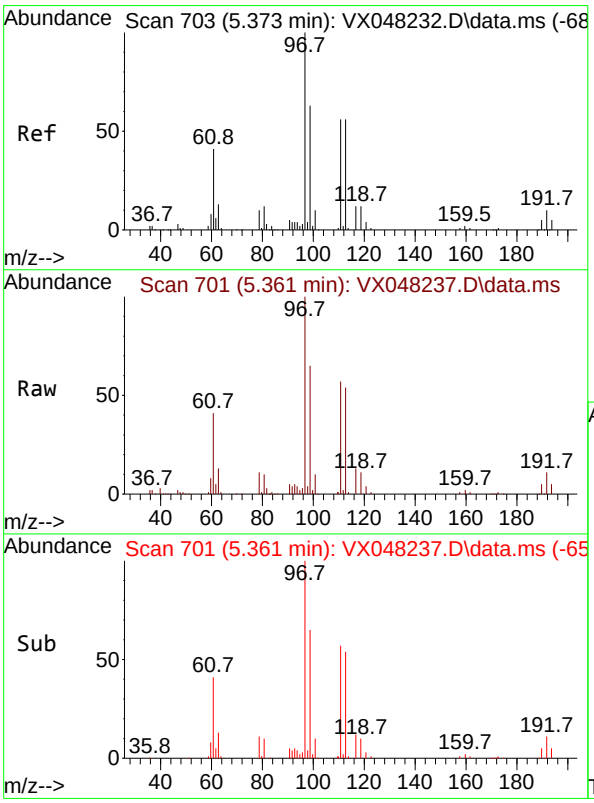
Ion	Ratio	Lower	Upper
56	100		
69	31.8	23.0	34.6
84	88.9	64.6	97.0

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

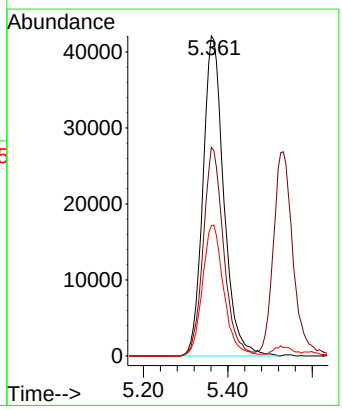


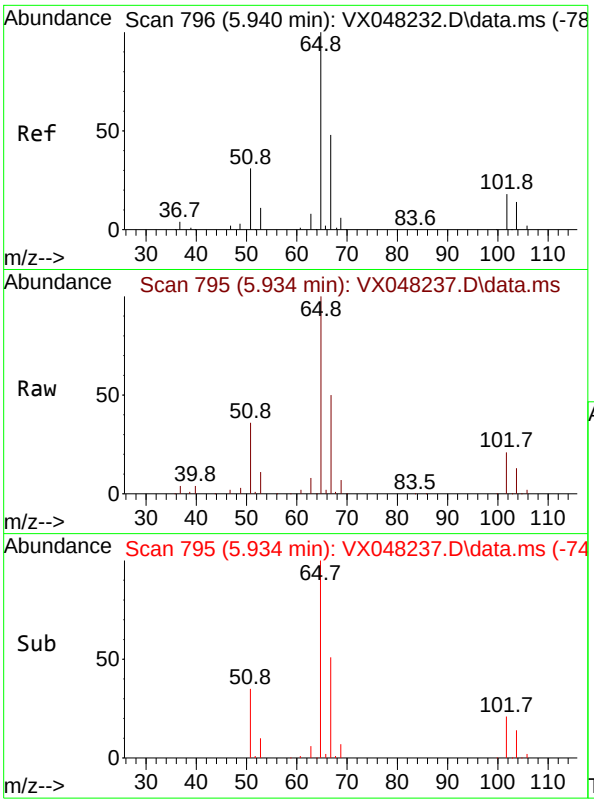


#32
1,1,1-Trichloroethane
Concen: 48.309 ug/l
RT: 5.361 min Scan# 701
Delta R.T. -0.012 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 97 Resp: 144706

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.7	77.5
61	41.8	34.8	52.2

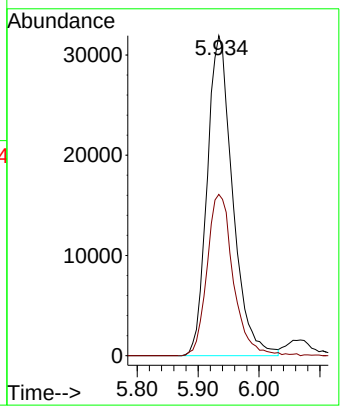




#33
1,2-Dichloroethane-d4
Concen: 45.687 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 65 Resp: 9270

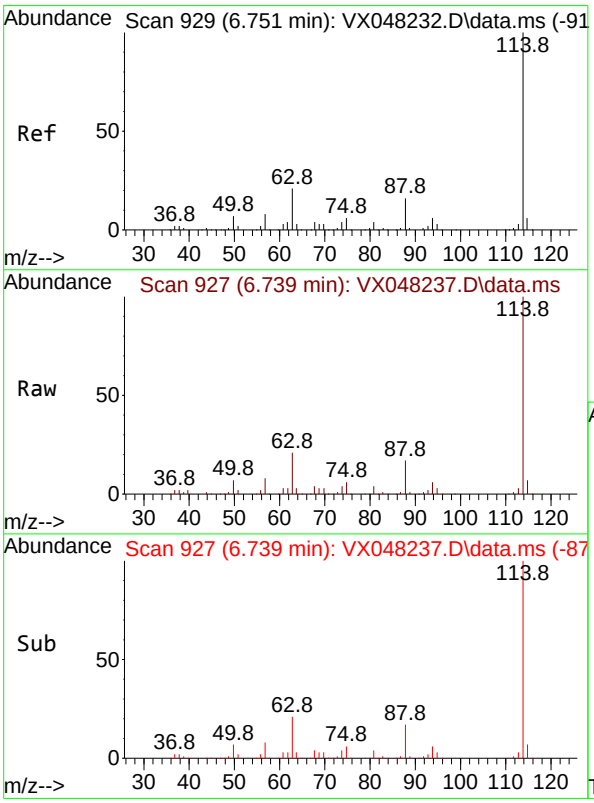
Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	105.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

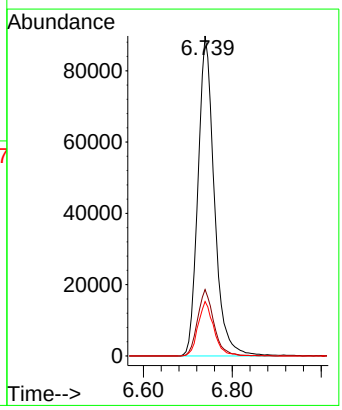
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

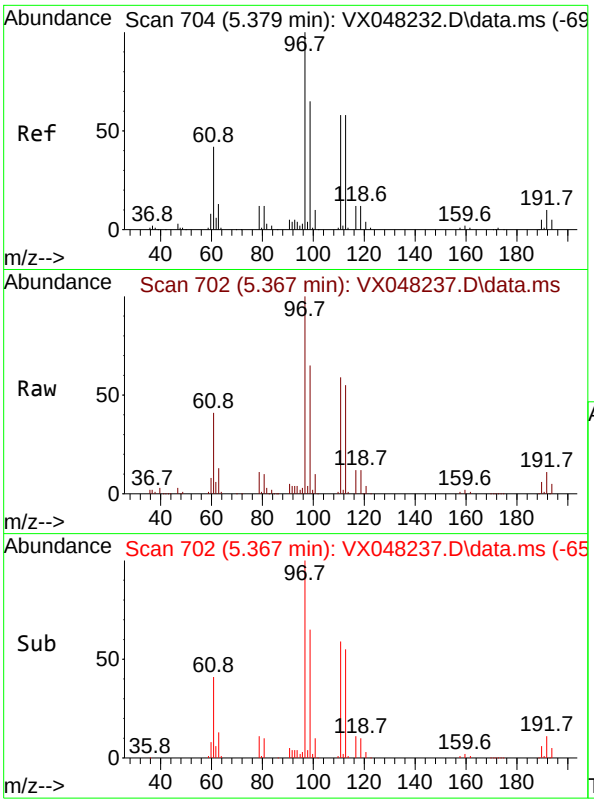


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 927
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:114 Resp: 229650

Ion	Ratio	Lower	Upper
114	100		
63	23.6	0.0	43.2
88	17.0	0.0	33.6

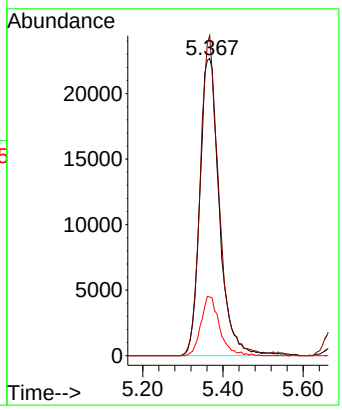




#35
Dibromofluoromethane
Concen: 48.951 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:113 Resp: 7674

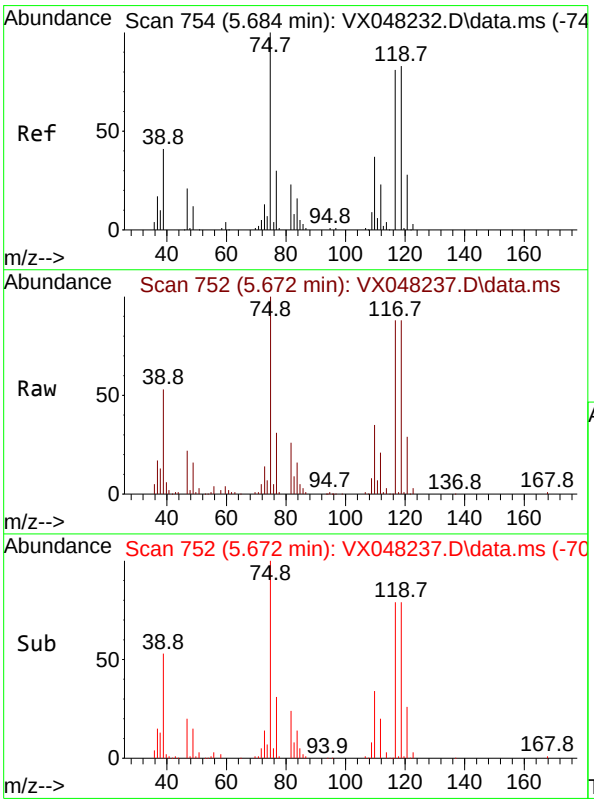
Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.2	123.4
192	19.0	15.1	22.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

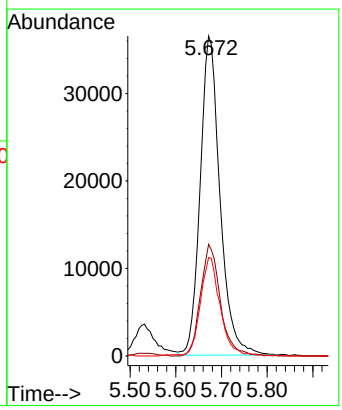
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

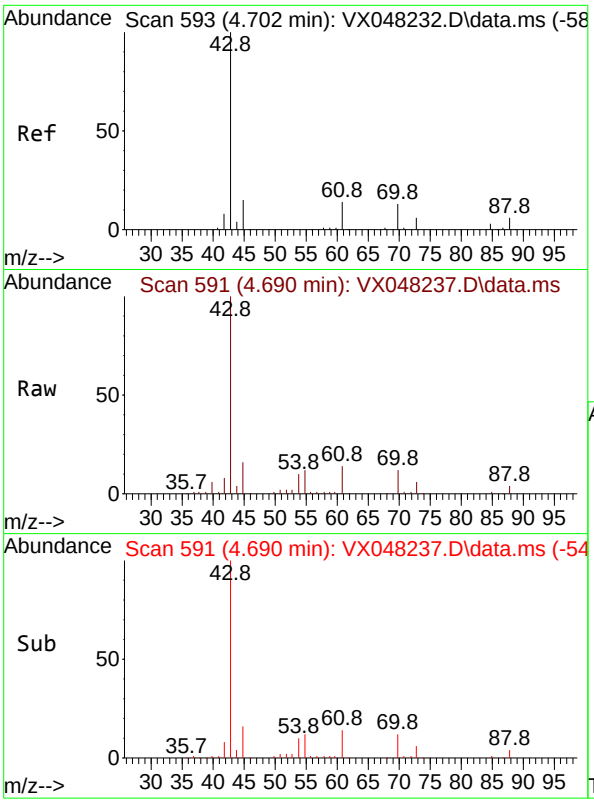


#36
1,1-Dichloropropene
Concen: 49.344 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 75 Resp: 109957

Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.7	53.1
77	30.4	24.3	36.5





#37
Ethyl Acetate
Concen: 47.684 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

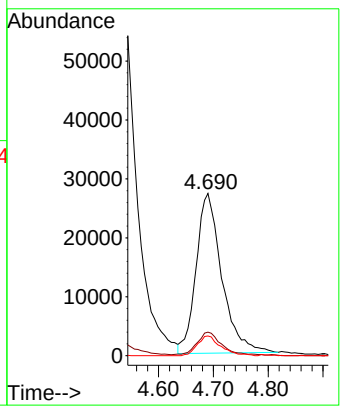
Tgt Ion: 43 Resp: 8807

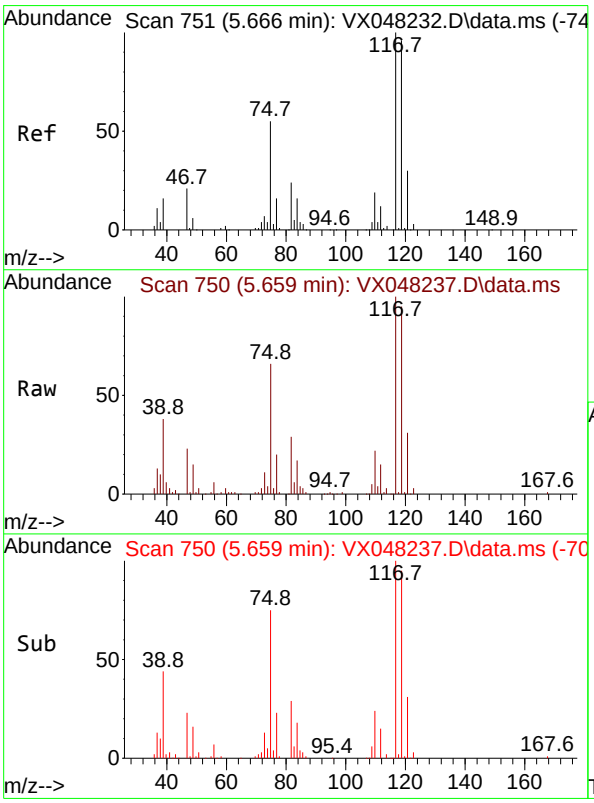
Ion	Ratio	Lower	Upper
43	100		
61	13.4	10.6	15.8
70	11.2	7.8	11.6

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

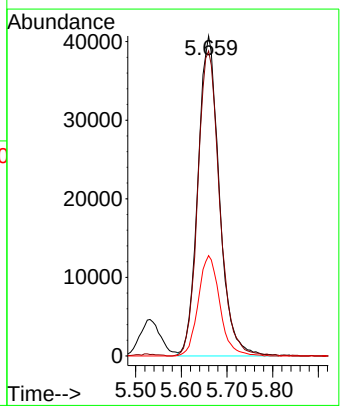


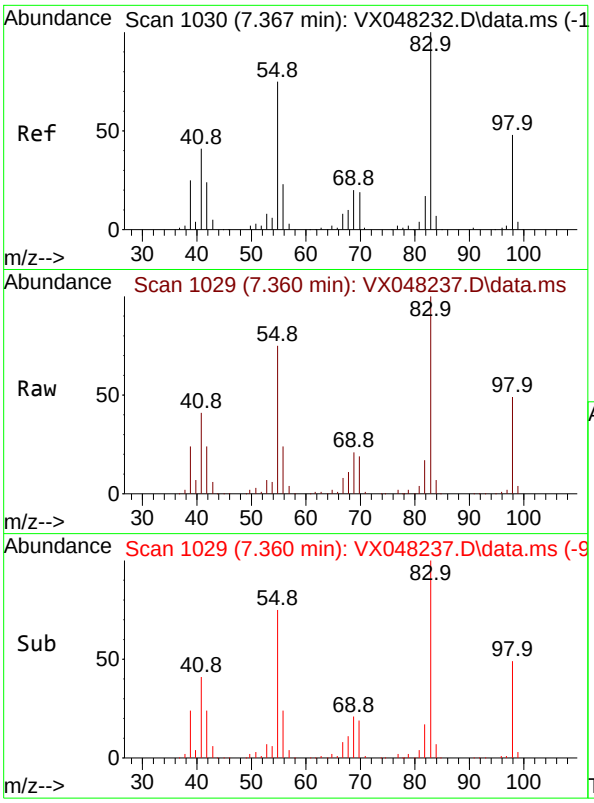


#38
Carbon Tetrachloride
Concen: 48.228 ug/l
RT: 5.659 min Scan# 750
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:117 Resp: 132590

Ion	Ratio	Lower	Upper
117	100		
119	95.1	77.2	115.8
121	31.4	24.8	37.2

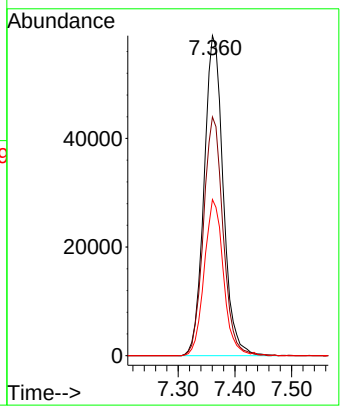




#39
Methylcyclohexane
Concen: 52.670 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 83 Resp: 13861

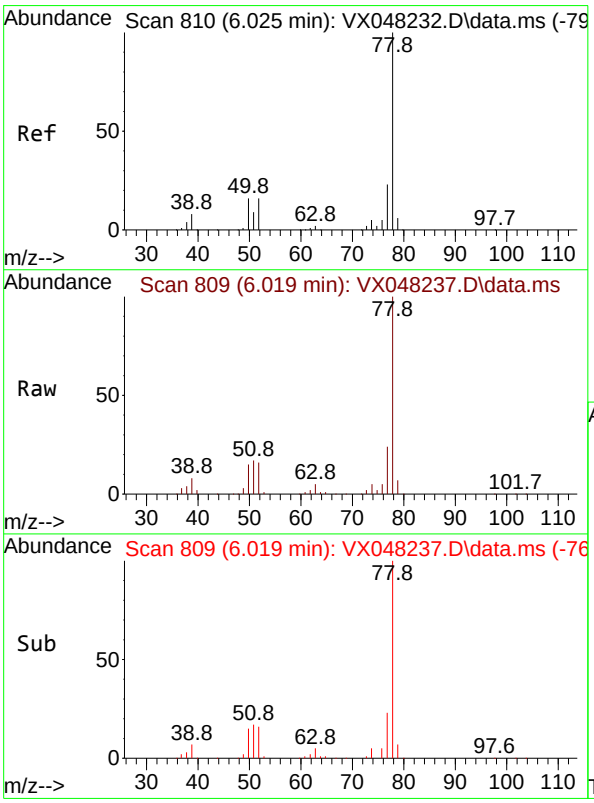
Ion	Ratio	Lower	Upper
83	100		
55	74.6	66.2	99.2
98	48.8	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

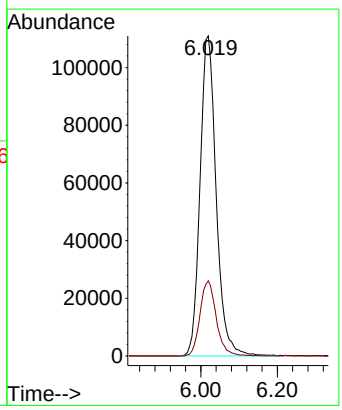
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

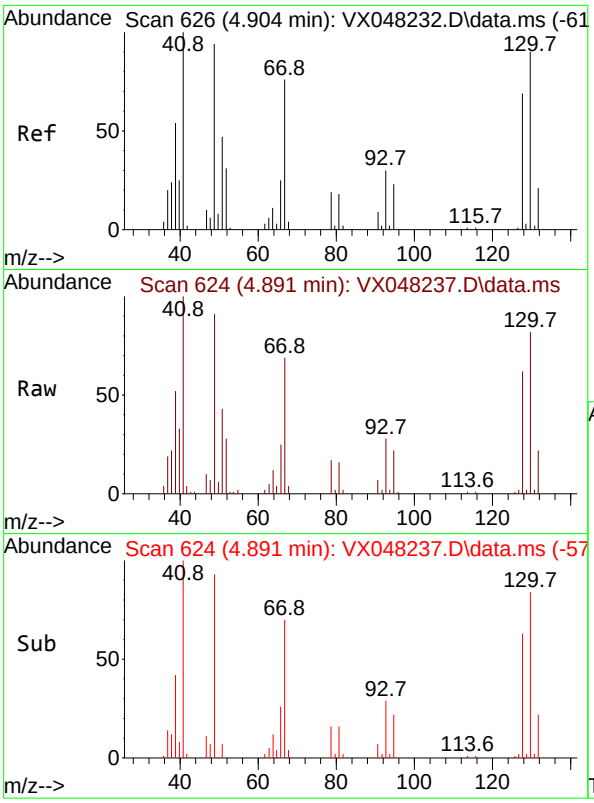


#40
Benzene
Concen: 50.241 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 78 Resp: 325041

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.3	28.9

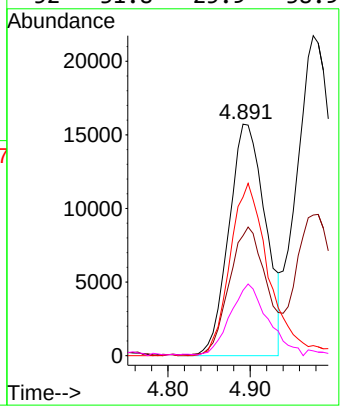




#41
Methacrylonitrile
Concen: 50.358 ug/l
RT: 4.891 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 41 Resp: 4884

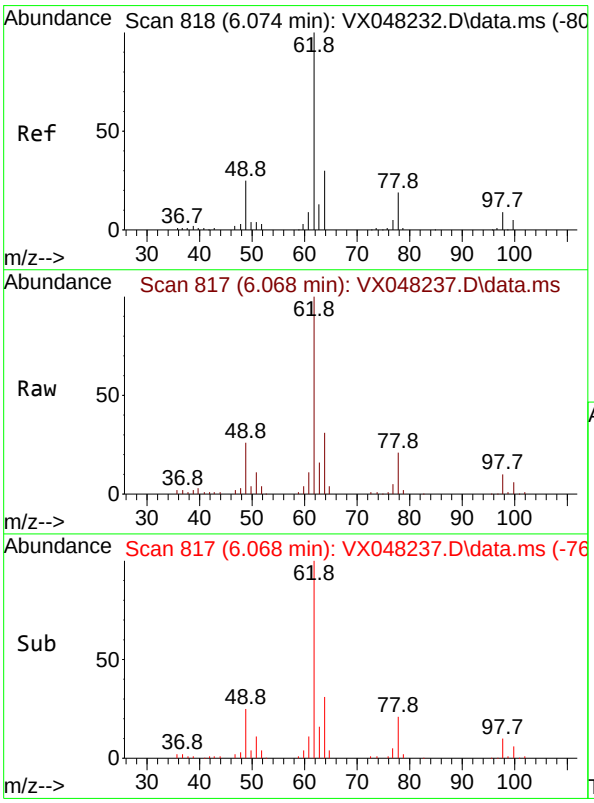
Ion	Ratio	Lower	Upper
41	100		
39	57.6	44.0	66.0
67	80.7	58.7	88.1
52	31.8	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

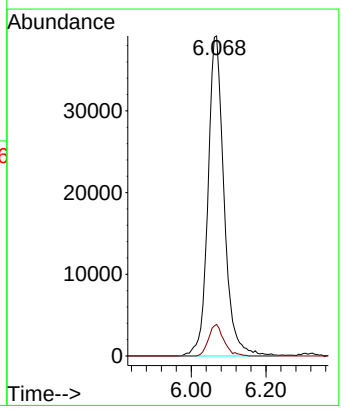
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

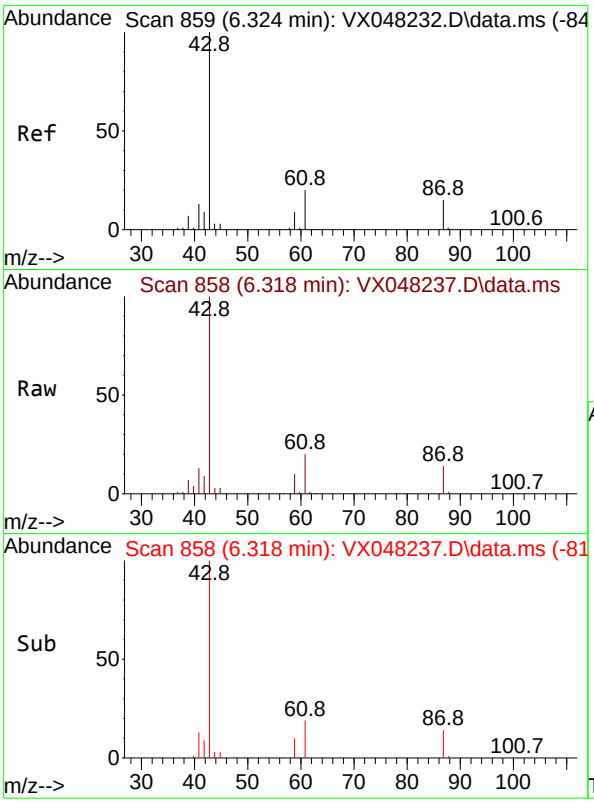


#42
1,2-Dichloroethane
Concen: 48.963 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 62 Resp: 116893

Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	17.2

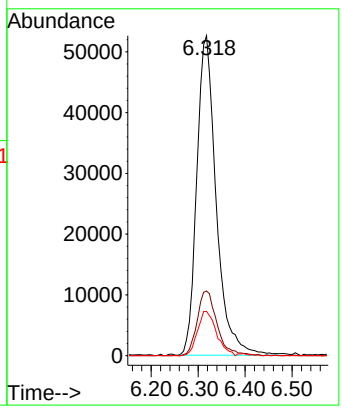




#43
Isopropyl Acetate
Concen: 49.816 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 43 Resp: 15114

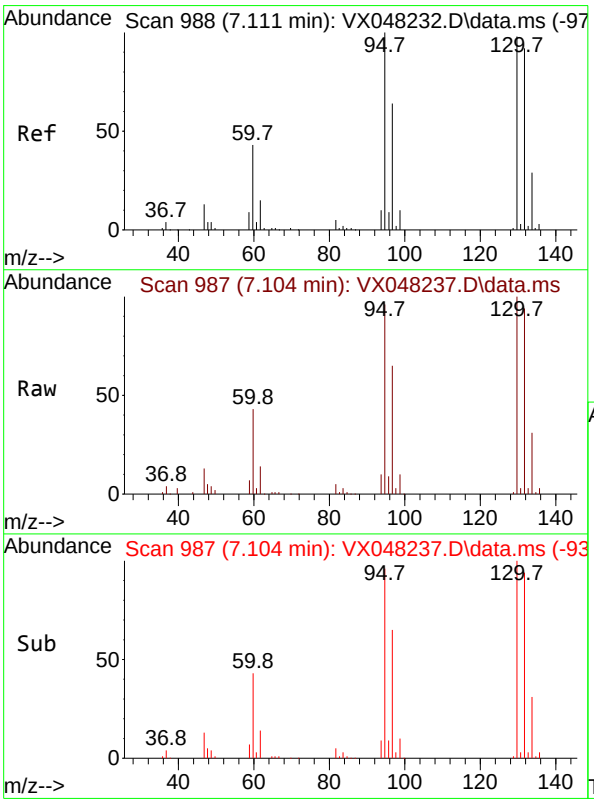
Ion	Ratio	Lower	Upper
43	100		
61	20.7	14.9	22.3
87	13.5	9.4	14.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

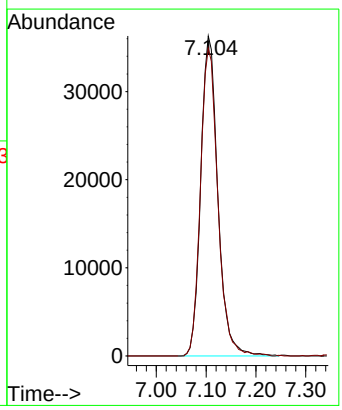
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

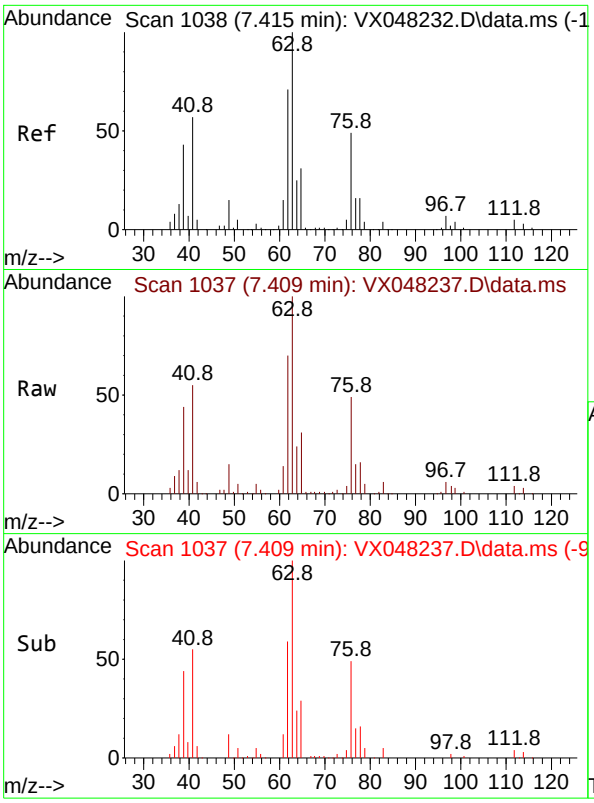


#44
Trichloroethene
Concen: 50.582 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:130 Resp: 86410

Ion	Ratio	Lower	Upper
130	100		
95	96.2	0.0	200.6





#45
1,2-Dichloropropane
Concen: 50.994 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

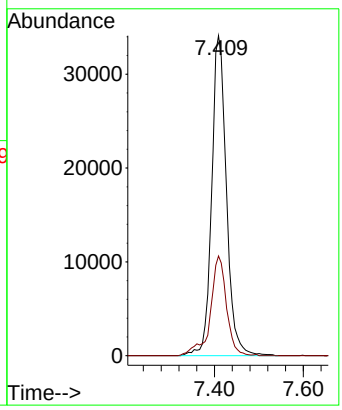
Tgt Ion: 63 Resp: 7843

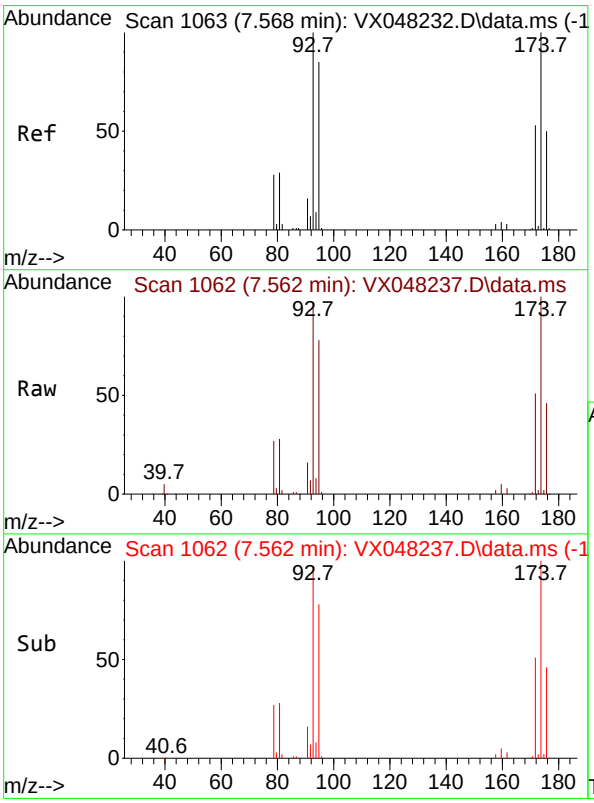
Ion	Ratio	Lower	Upper
63	100		
65	31.1	24.1	36.1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

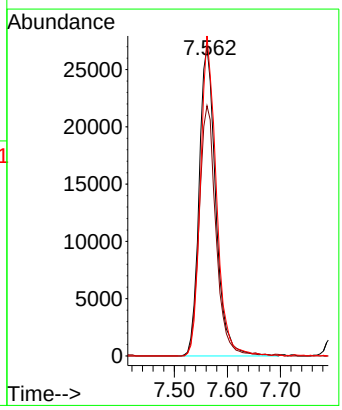


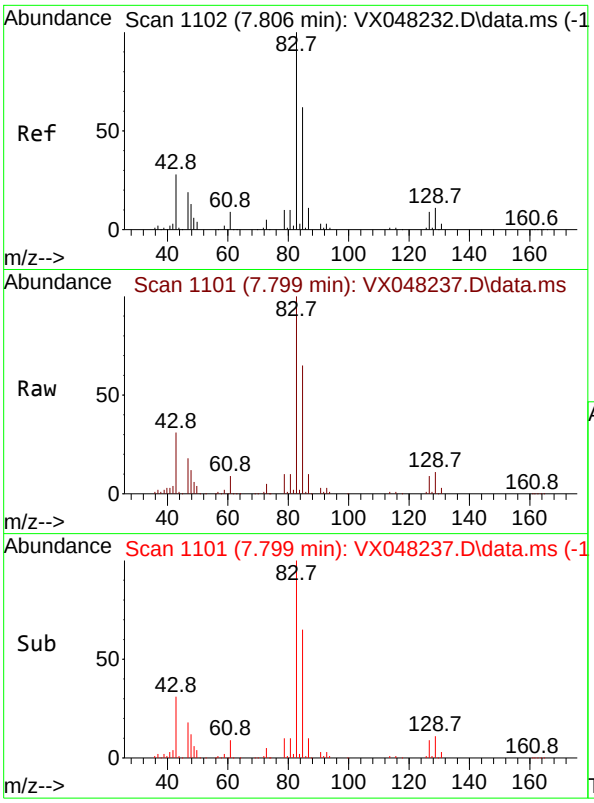


#46
Dibromomethane
Concen: 48.913 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 93 Resp: 58616

Ion	Ratio	Lower	Upper
93	100		
95	81.4	65.9	98.9
174	99.2	71.7	107.5

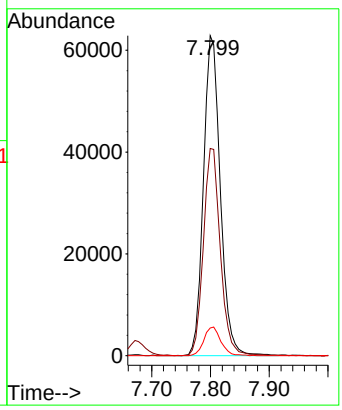




#47
Bromodichloromethane
Concen: 48.459 ug/l
RT: 7.799 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 83 Resp: 12538

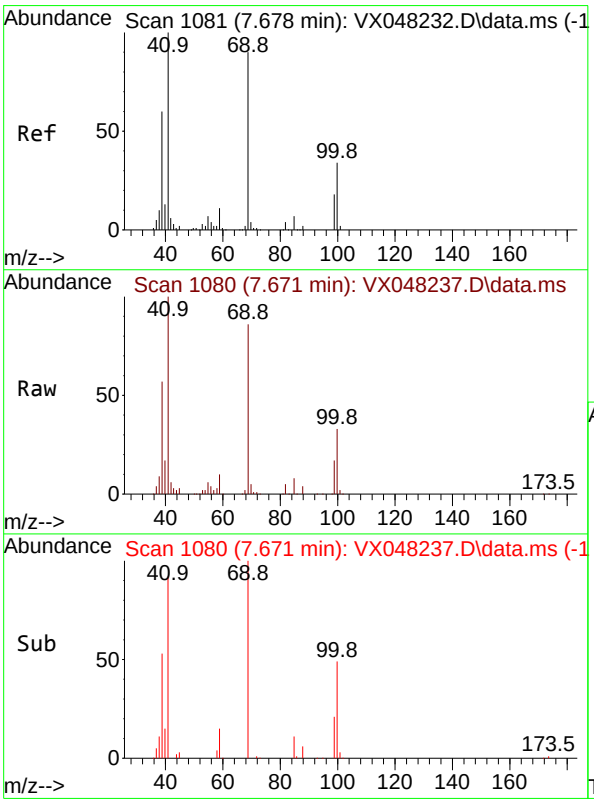
Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.2	78.4
127	8.7	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

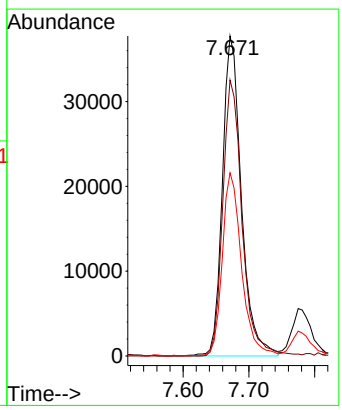
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

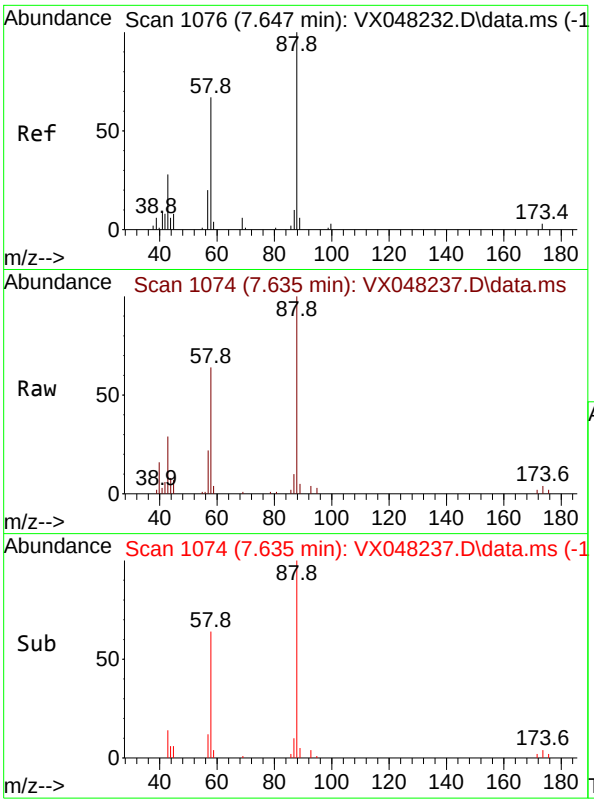


#48
Methyl methacrylate
Concen: 49.519 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 41 Resp: 75812

Ion	Ratio	Lower	Upper
41	100		
69	87.7	63.4	95.0
39	58.0	47.1	70.7

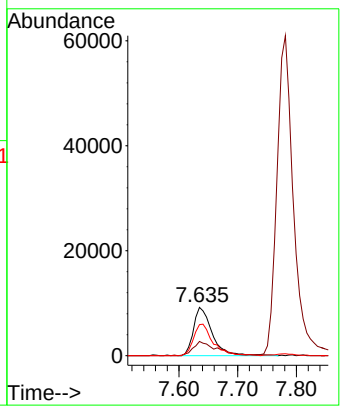




#49
1,4-Dioxane
Concen: 1000.197 ug/l
RT: 7.635 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 88 Resp: 2023

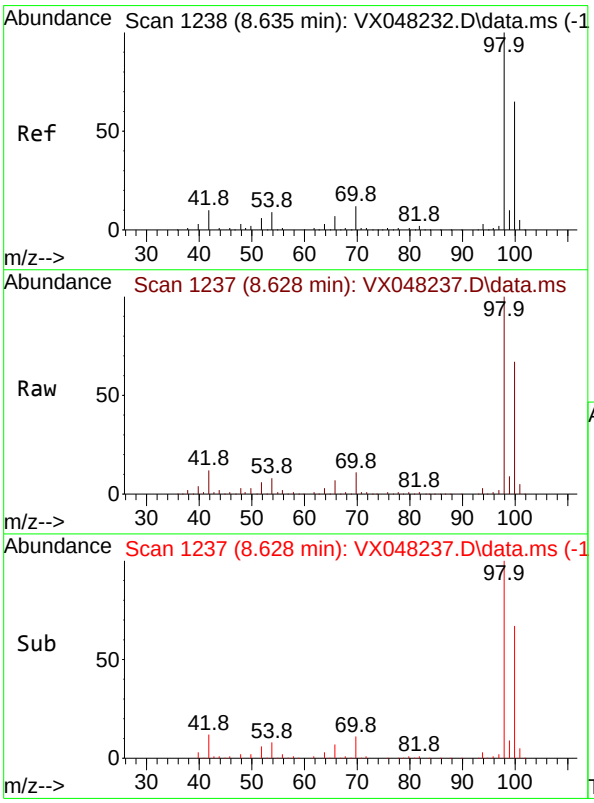
Ion	Ratio	Lower	Upper
88	100		
43	37.8	35.0	52.4
58	67.9	61.9	92.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

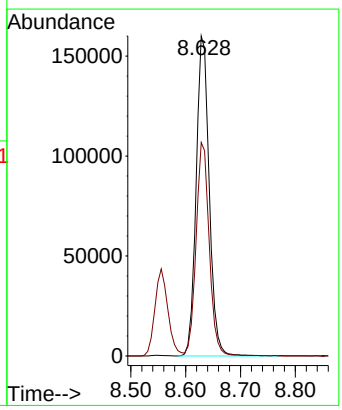
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

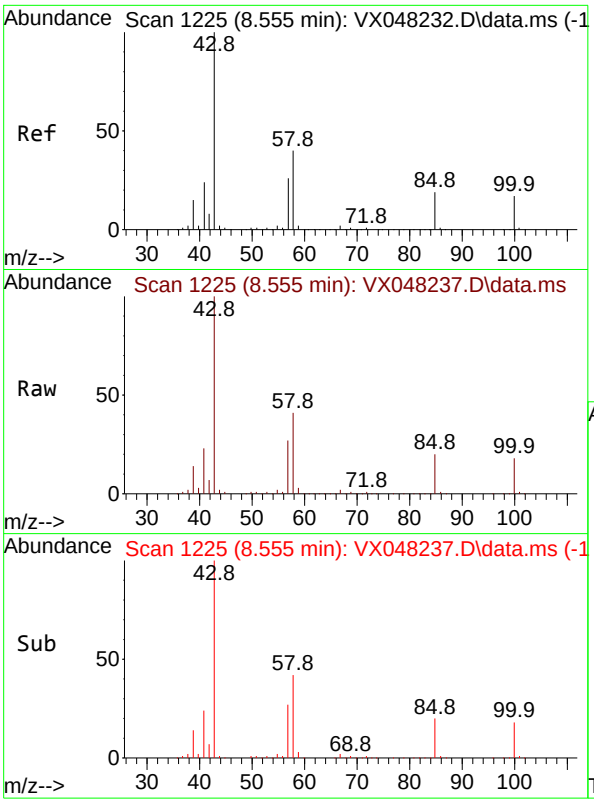


#50
Toluene-d8
Concen: 48.386 ug/l
RT: 8.628 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 98 Resp: 265898

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.0	79.4

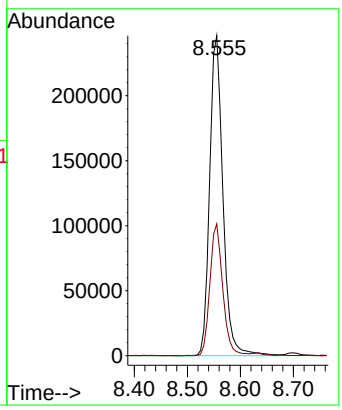




#51
4-Methyl-2-Pentanone
Concen: 244.897 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 43 Resp: 42839

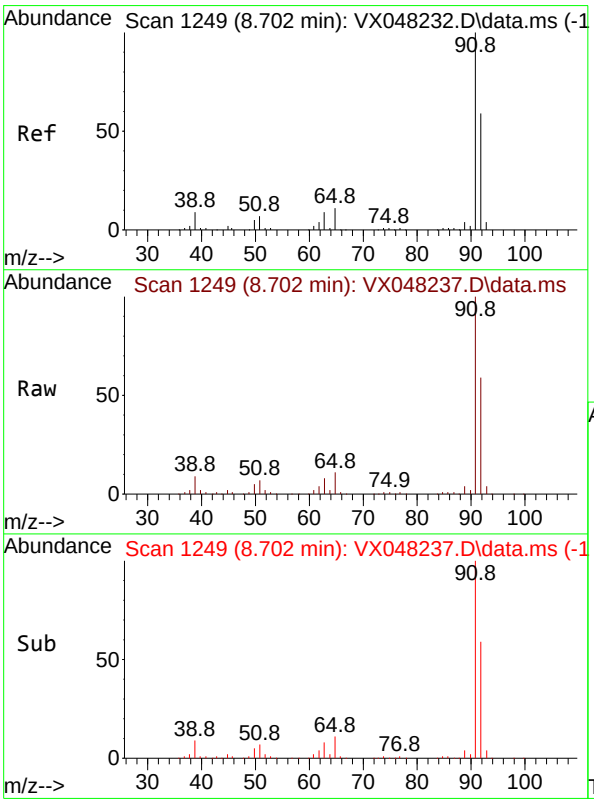
Ion	Ratio	Lower	Upper
43	100		
58	39.9	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

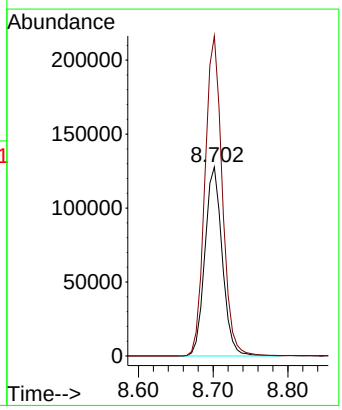
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

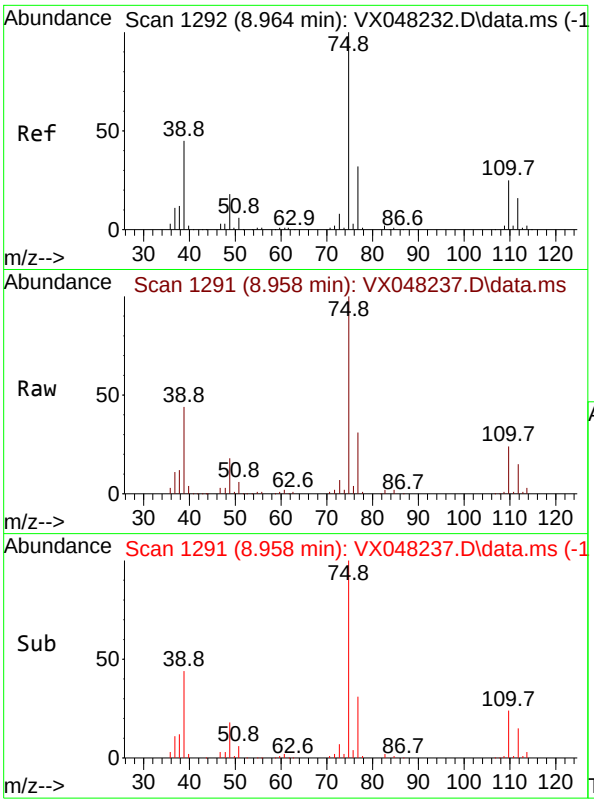


#52
Toluene
Concen: 50.088 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 92 Resp: 205867

Ion	Ratio	Lower	Upper
92	100		
91	169.0	136.1	204.1

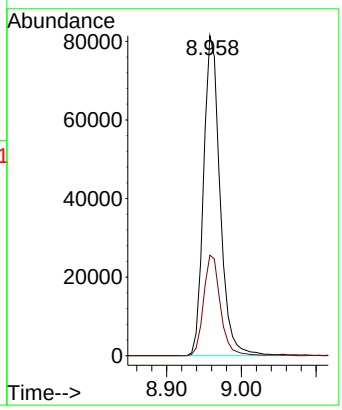




#53
t-1,3-Dichloropropene
Concen: 50.004 ug/l
RT: 8.958 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 75 Resp: 12468

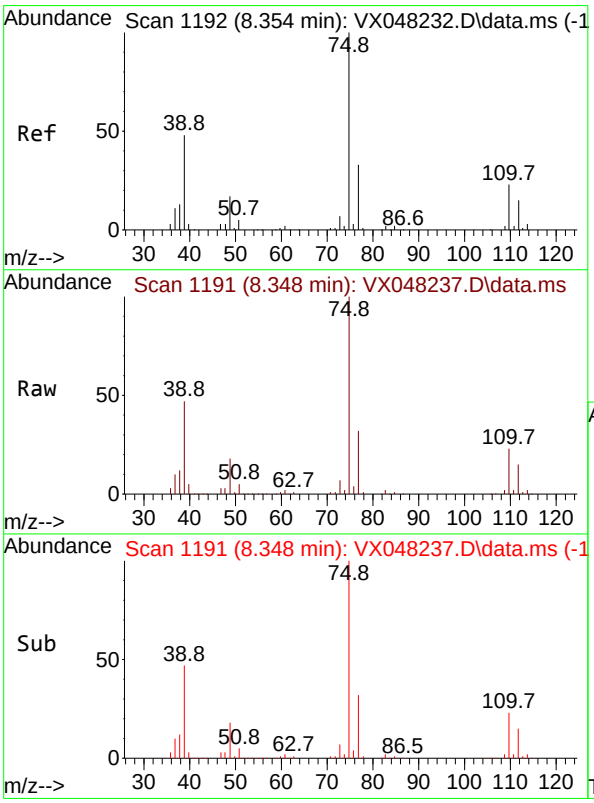
Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

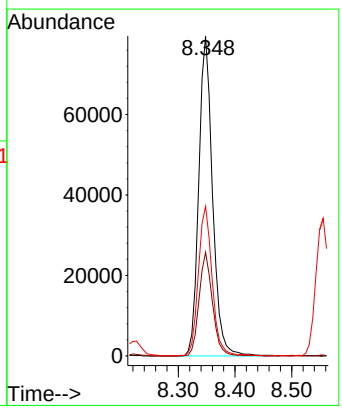
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

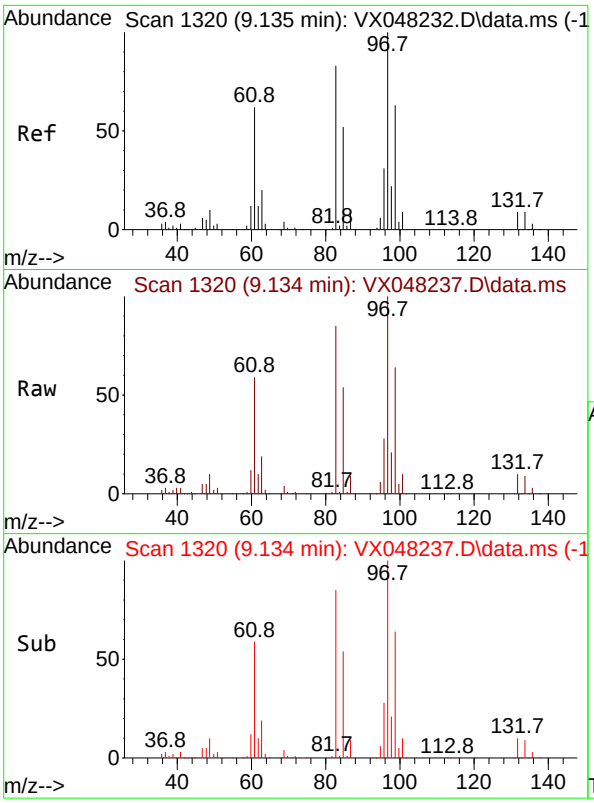


#54
cis-1,3-Dichloropropene
Concen: 49.944 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 75 Resp: 134360

Ion	Ratio	Lower	Upper
75	100		
77	32.4	24.9	37.3
39	46.7	42.6	64.0

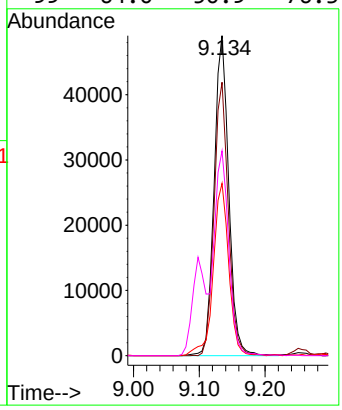




#55
1,1,2-Trichloroethane
Concen: 49.597 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 97 Resp: 7580

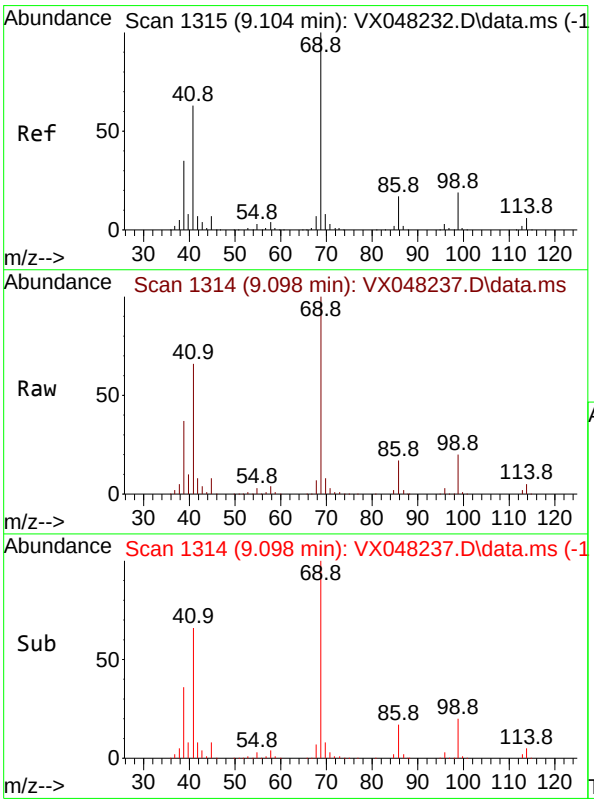
Ion	Ratio	Lower	Upper
97	100		
83	85.5	70.6	105.8
85	53.9	45.0	67.6
99	64.0	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

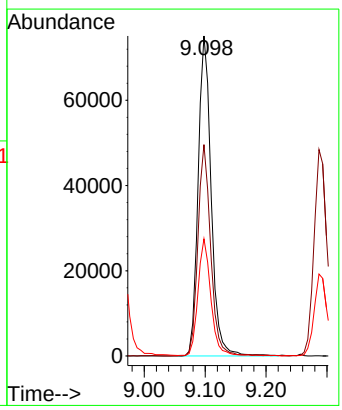
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

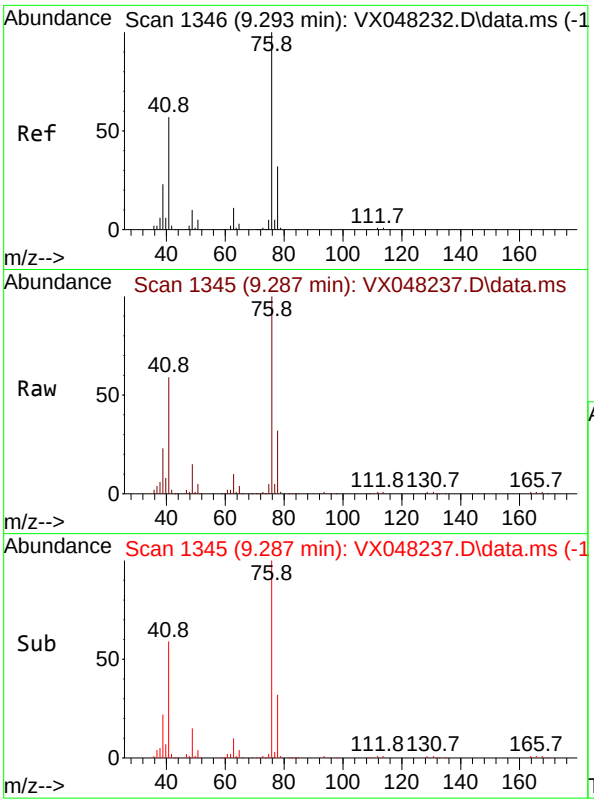


#56
Ethyl methacrylate
Concen: 49.964 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 69 Resp: 111702

Ion	Ratio	Lower	Upper
69	100		
41	65.1	56.0	84.0
39	36.0	31.6	47.4





#57
1,3-Dichloropropane
Concen: 49.226 ug/l
RT: 9.287 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

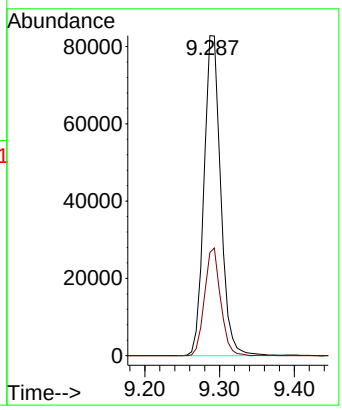
Tgt Ion: 76 Resp: 12851

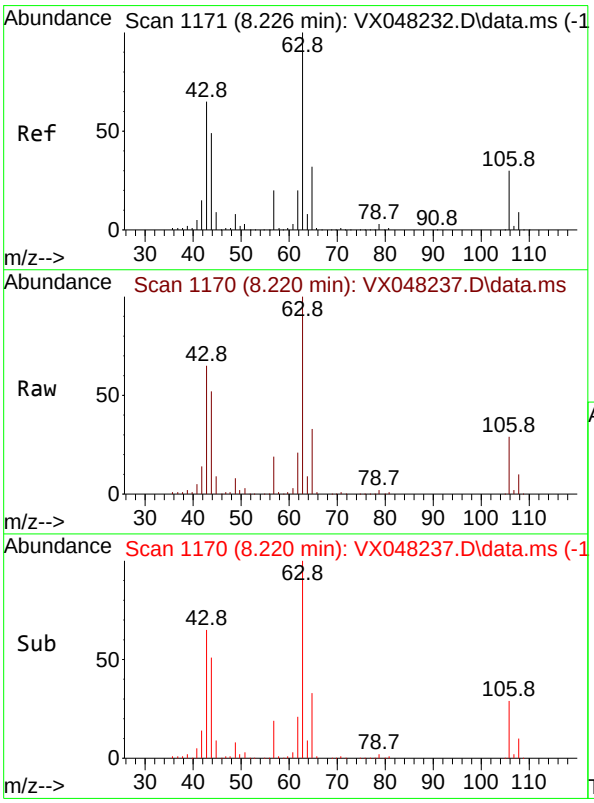
Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.4	38.0

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

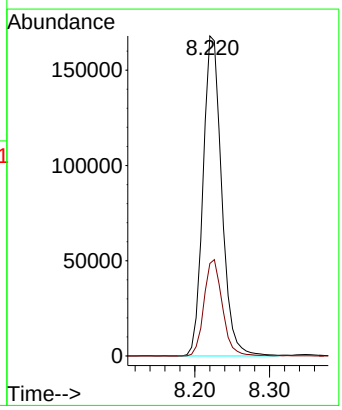


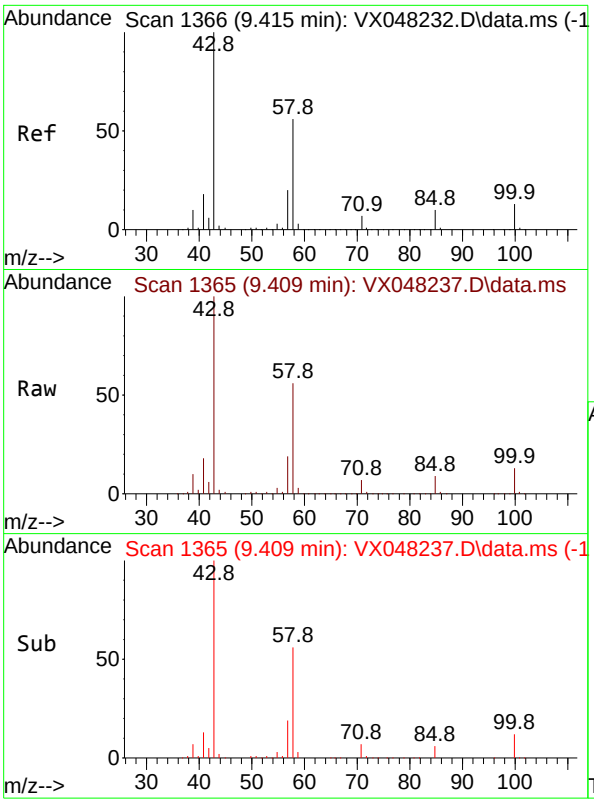


#58
2-Chloroethyl Vinyl ether
Concen: 242.124 ug/l
RT: 8.220 min Scan# 1170
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 63 Resp: 290992

Ion	Ratio	Lower	Upper
63	100		
106	29.6	22.2	33.2





#59
2-Hexanone
Concen: 246.102 ug/l
RT: 9.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

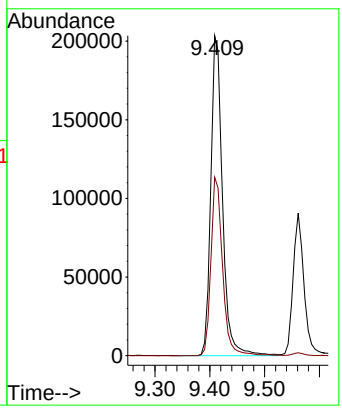
Tgt Ion: 43 Resp: 30018

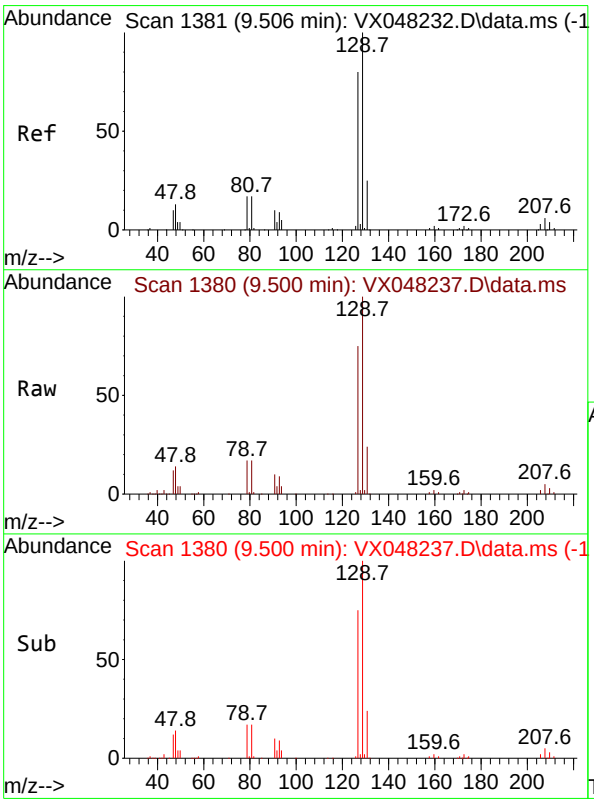
Ion	Ratio	Lower	Upper
43	100		
58	55.6	26.3	78.8

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

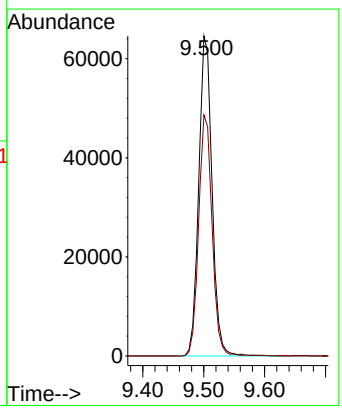


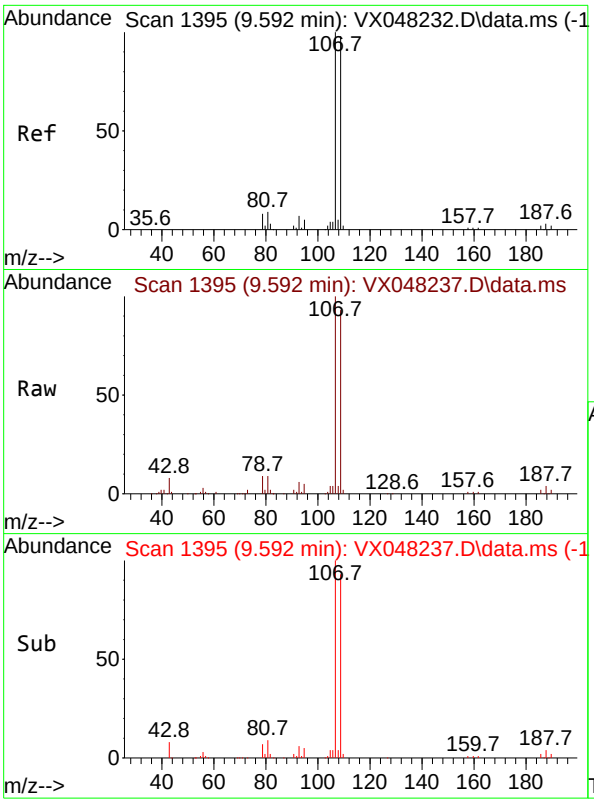


#60
Dibromochloromethane
Concen: 47.530 ug/l
RT: 9.500 min Scan# 1380
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:129 Resp: 97643

Ion	Ratio	Lower	Upper
129	100		
127	76.2	38.6	115.7





#61
1,2-Dibromoethane
Concen: 49.319 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

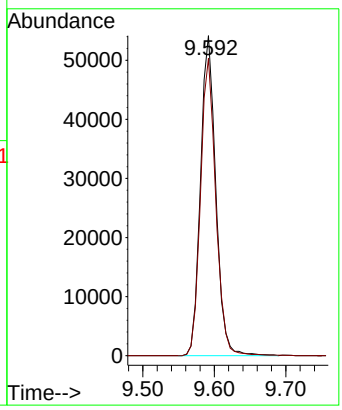
Tgt Ion:107 Resp: 8036

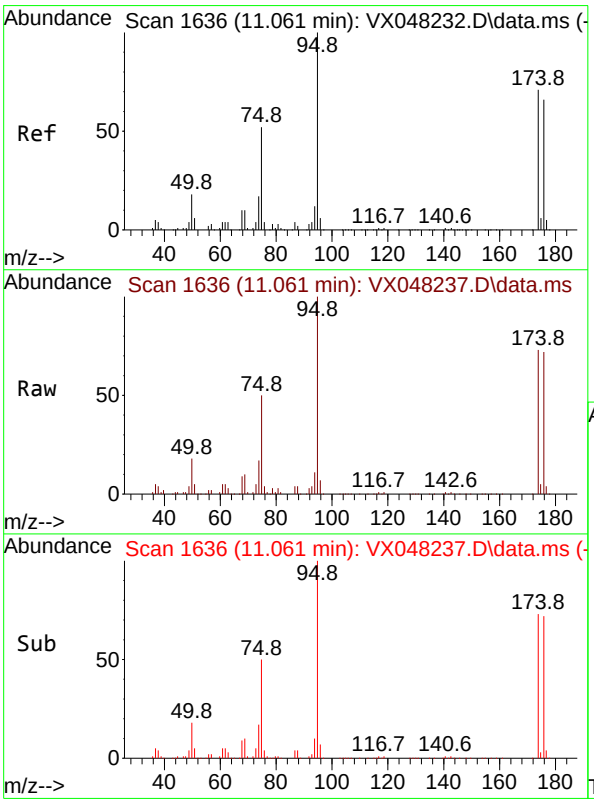
Ion	Ratio	Lower	Upper
107	100		
109	93.1	77.0	115.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

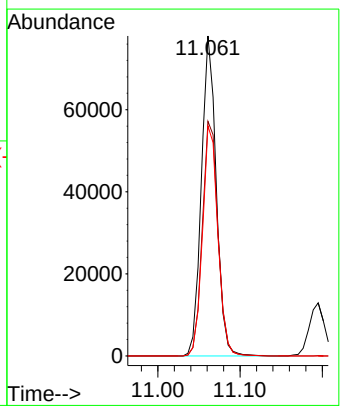


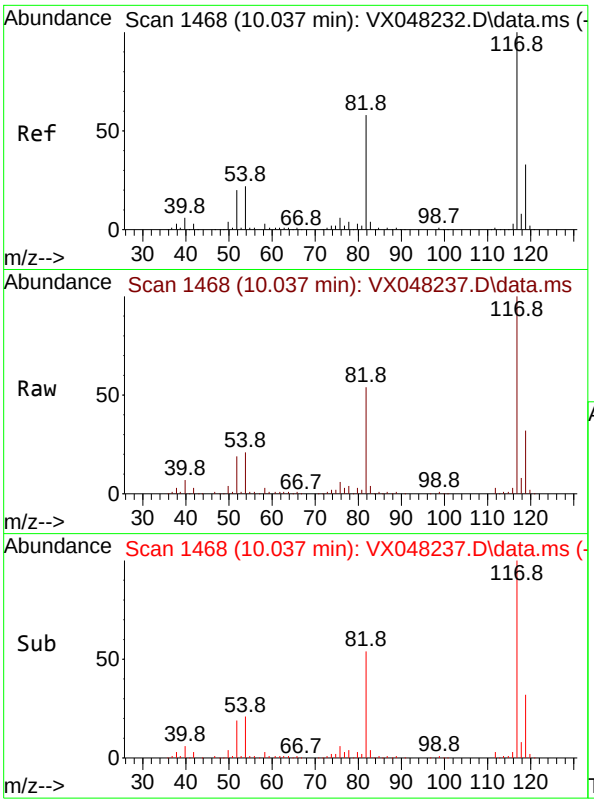


#62
4-Bromofluorobenzene
Concen: 46.795 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 95 Resp: 97828

Ion	Ratio	Lower	Upper
95	100		
174	77.0	0.0	147.8
176	74.2	0.0	142.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

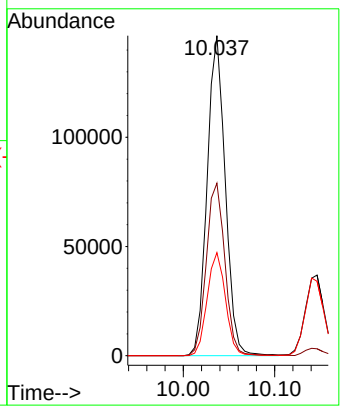
Tgt Ion:117 Resp: 20139

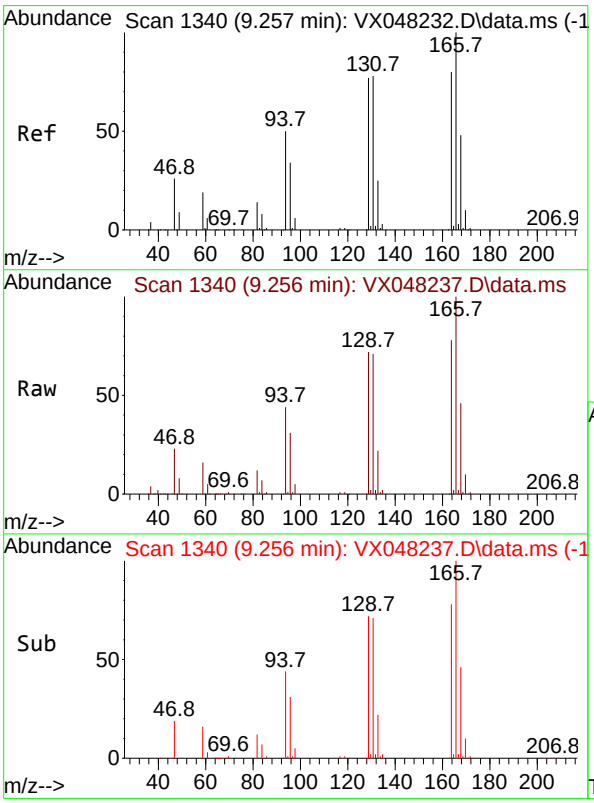
Ion	Ratio	Lower	Upper
117	100		
82	53.9	46.5	69.7
119	32.2	25.9	38.9

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

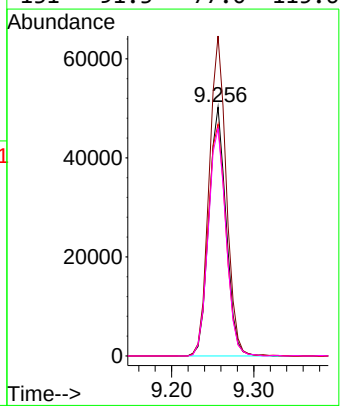


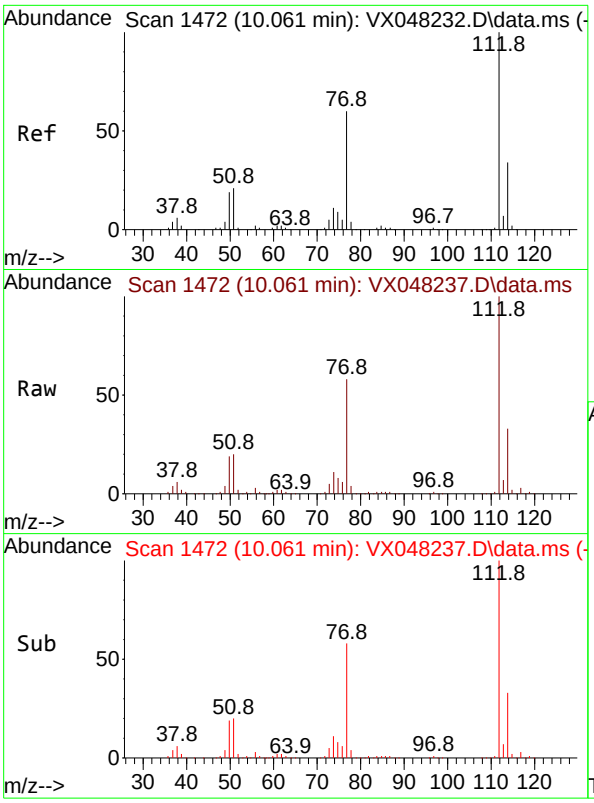


#64
Tetrachloroethene
Concen: 48.686 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:164 Resp: 73198

Ion	Ratio	Lower	Upper
164	100		
166	128.6	104.5	156.7
129	93.1	81.8	122.6
131	91.3	77.0	115.6





#65
Chlorobenzene
Concen: 50.095 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

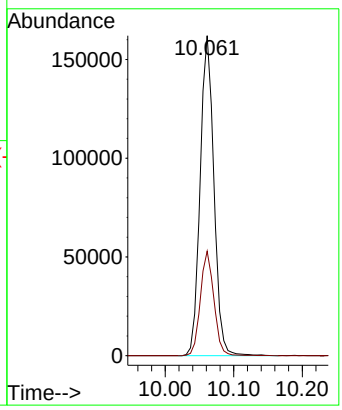
Tgt Ion:112 Resp: 22695

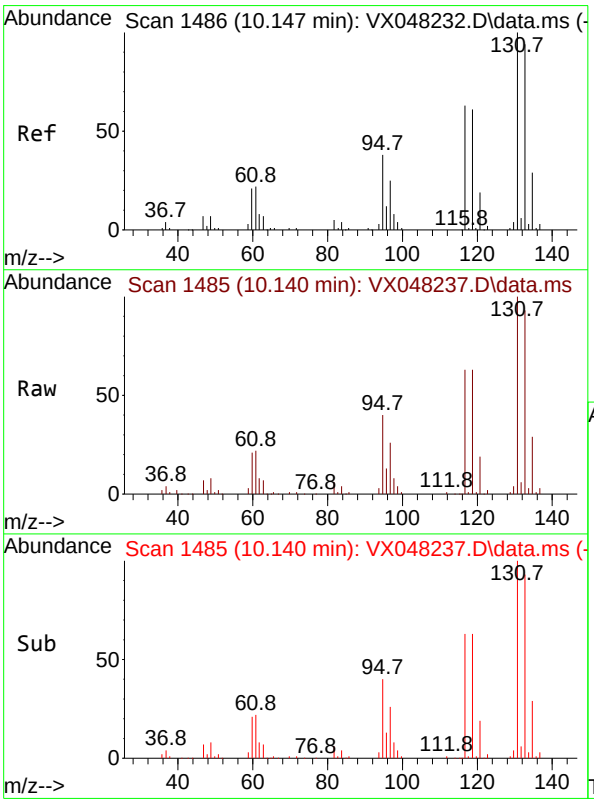
Ion	Ratio	Lower	Upper
112	100		
114	32.6	26.2	39.2

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

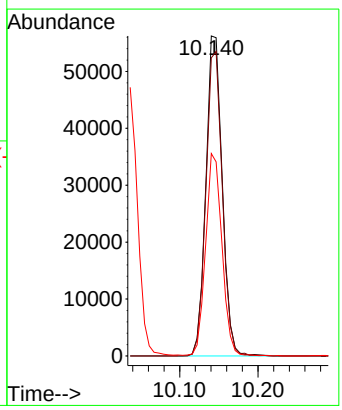


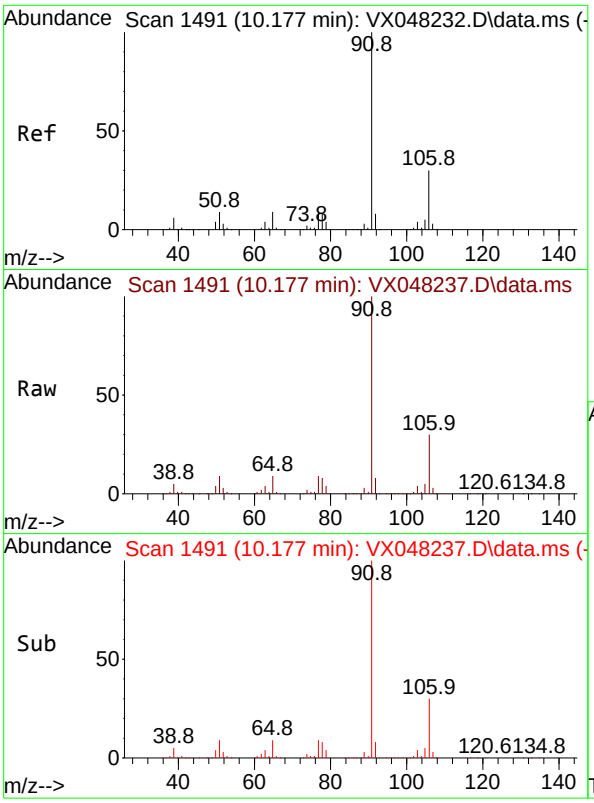


#66
1,1,1,2-Tetrachloroethane
Concen: 49.014 ug/l
RT: 10.140 min Scan# 1485
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:131 Resp: 81561

Ion	Ratio	Lower	Upper
131	100		
133	95.2	47.6	142.8
119	63.3	32.5	97.5

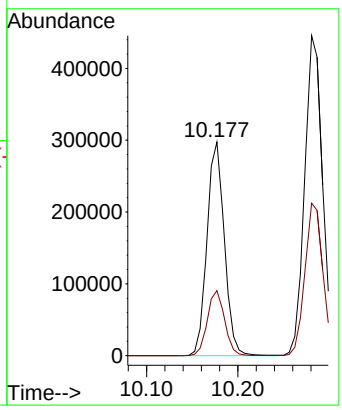




#67
Ethyl Benzene
Concen: 50.798 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 91 Resp: 39183

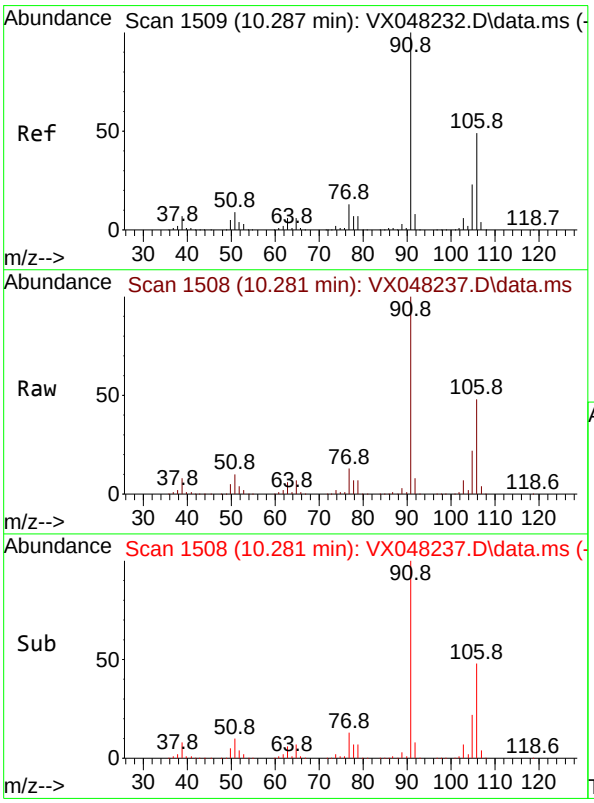
Ion	Ratio	Lower	Upper
91	100		
106	30.5	23.8	35.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

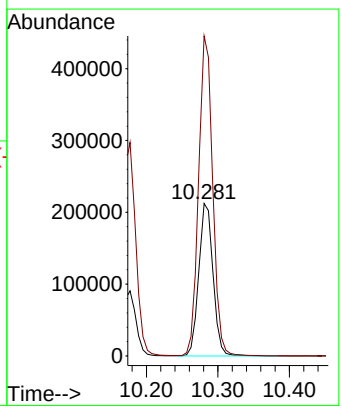
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

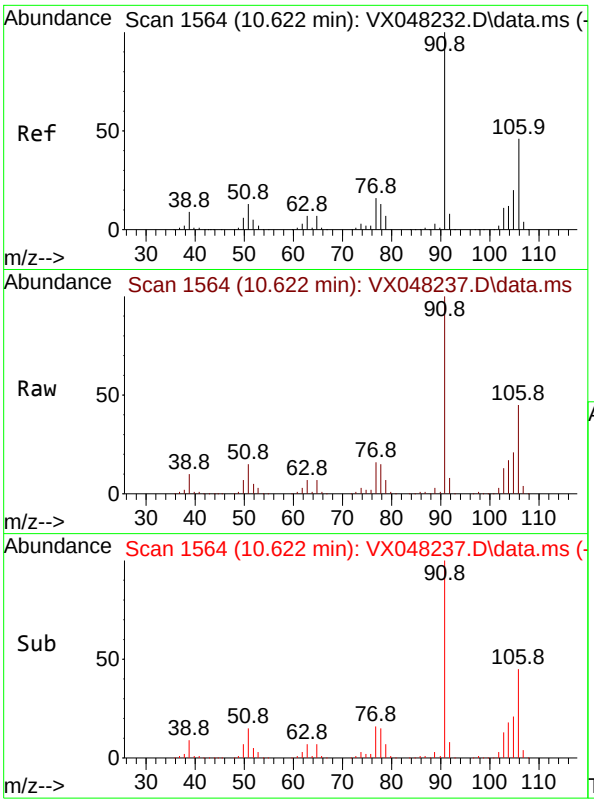


#68
m/p-Xylenes
Concen: 102.416 ug/l
RT: 10.281 min Scan# 1508
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:106 Resp: 293516

Ion	Ratio	Lower	Upper
106	100		
91	208.2	167.9	251.9





#69
o-Xylene
Concen: 50.424 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

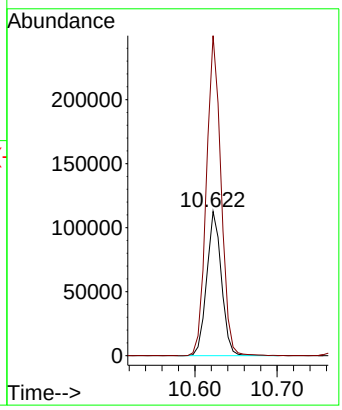
Tgt Ion:106 Resp: 13951

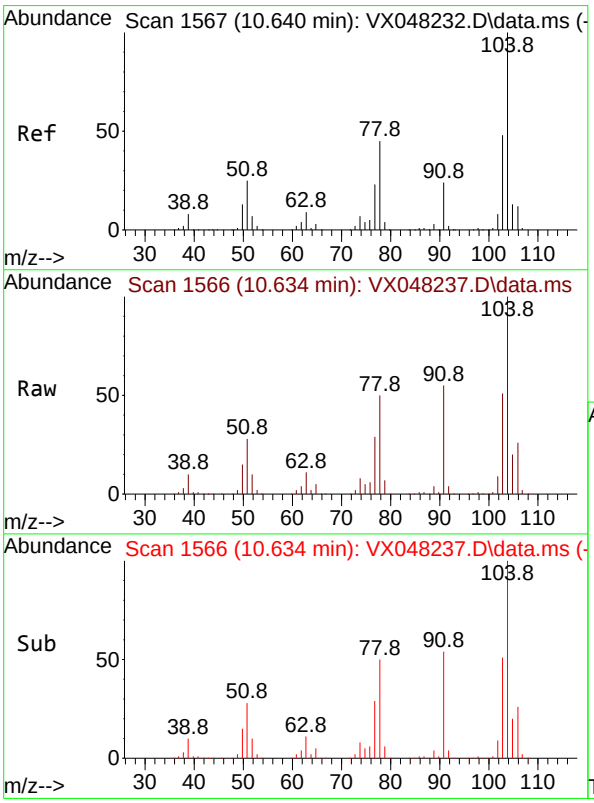
Ion	Ratio	Lower	Upper
106	100		
91	221.1	111.3	333.9

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

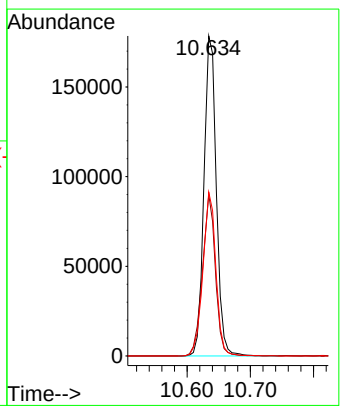


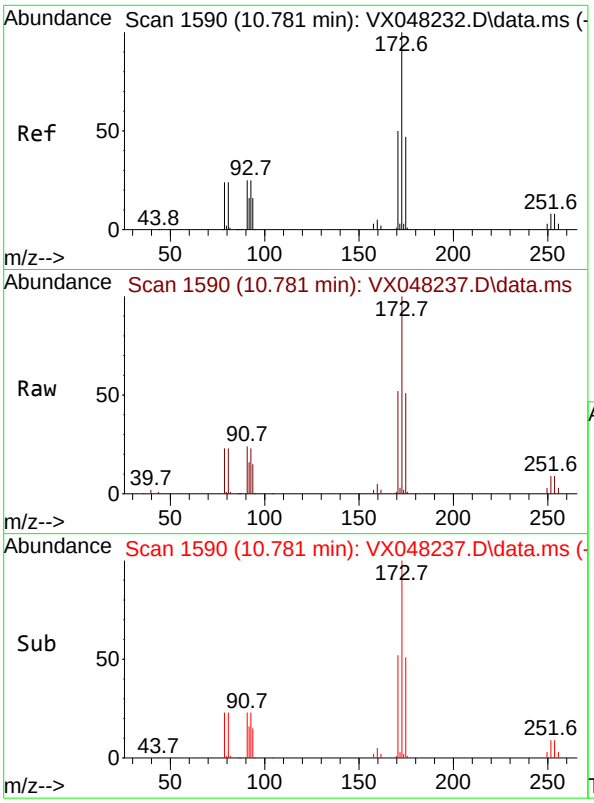


#70
Styrene
Concen: 51.651 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:104 Resp: 243341

Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.2	63.4
103	53.8	43.0	64.4

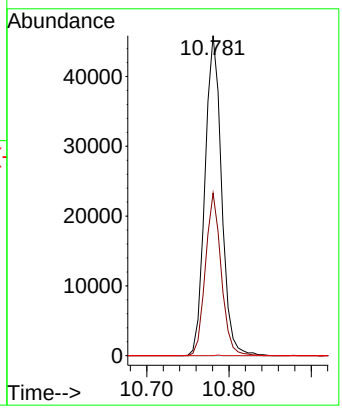




#71
Bromoform
Concen: 48.250 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:173 Resp: 6417

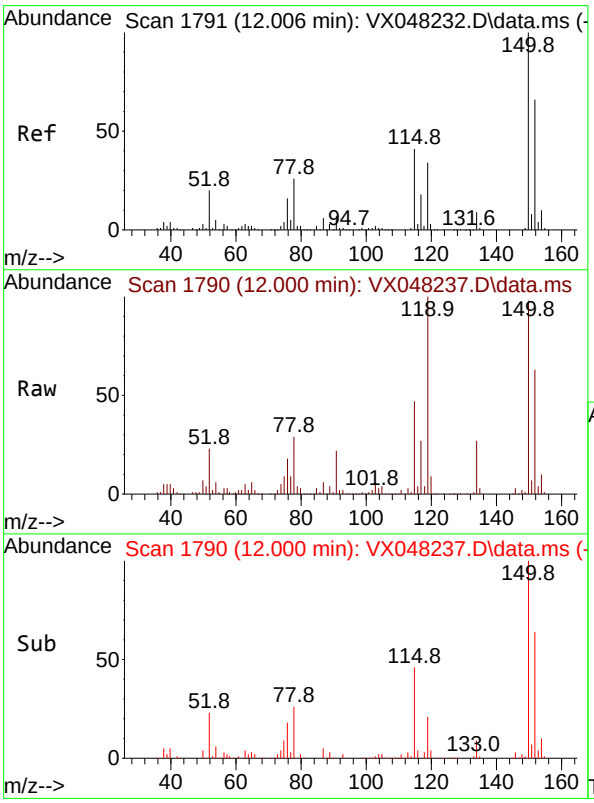
Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.0	72.0
254	0.1	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

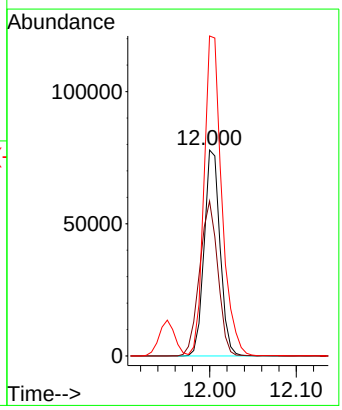
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

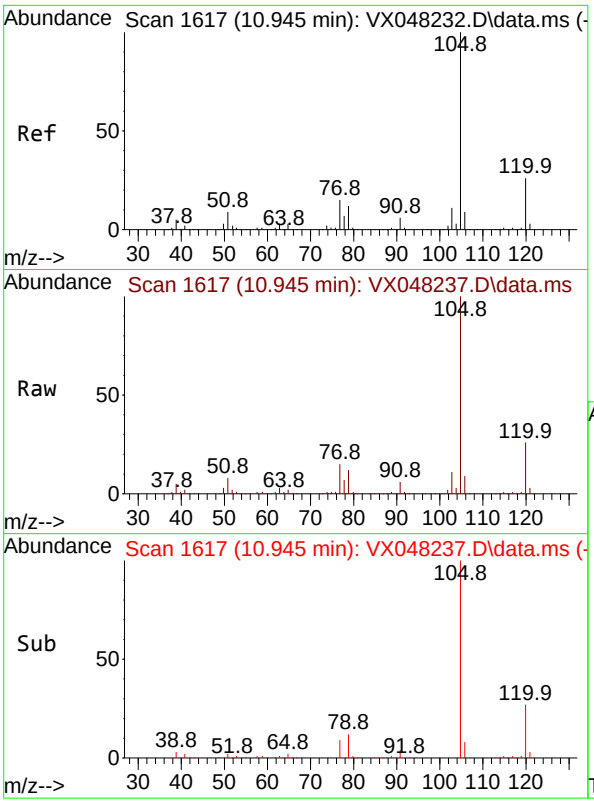


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.000 min Scan# 1790
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:152 Resp: 99108

Ion	Ratio	Lower	Upper
152	100		
115	86.2	43.1	129.4
150	173.4	0.0	353.0





#73
Isopropylbenzene
Concen: 51.658 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

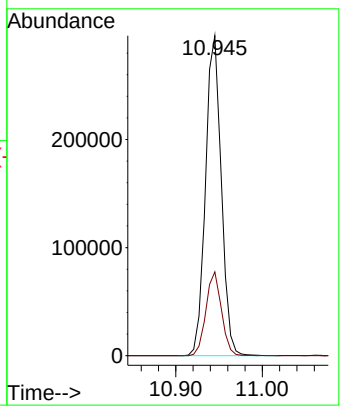
Tgt Ion:105 Resp: 373948

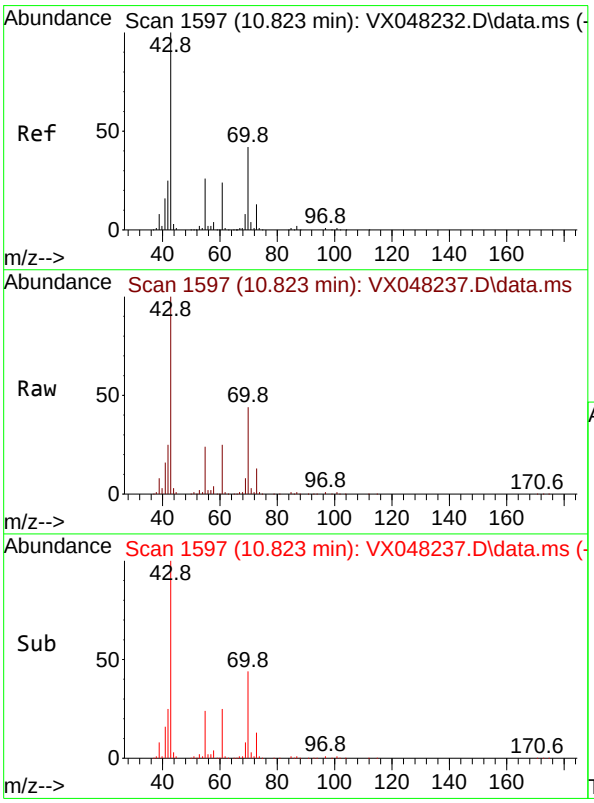
Ion	Ratio	Lower	Upper
105	100		
120	25.8	13.0	38.9

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

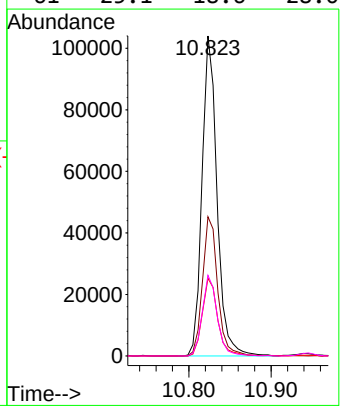


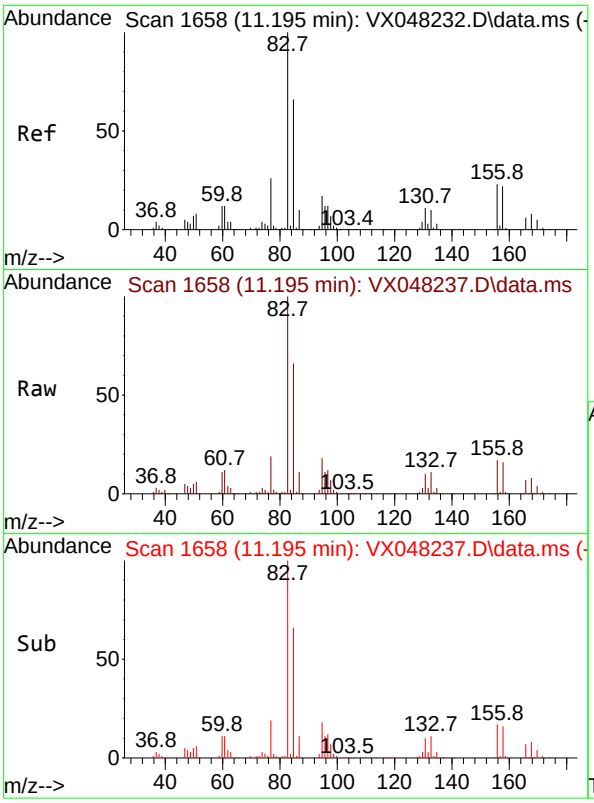


#74
N-amyl acetate
Concen: 51.399 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 43 Resp: 131979

Ion	Ratio	Lower	Upper
43	100		
70	44.1	32.2	48.2
55	25.0	19.1	28.7
61	25.1	18.6	28.0





#75
1,1,2,2-Tetrachloroethane
Concen: 49.936 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

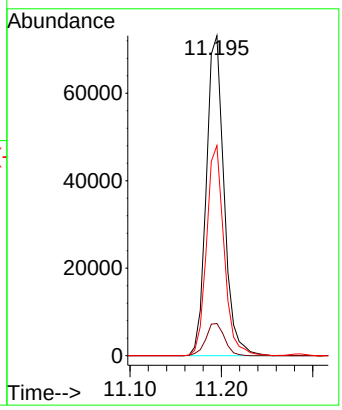
Tgt Ion: 83 Resp: 9871

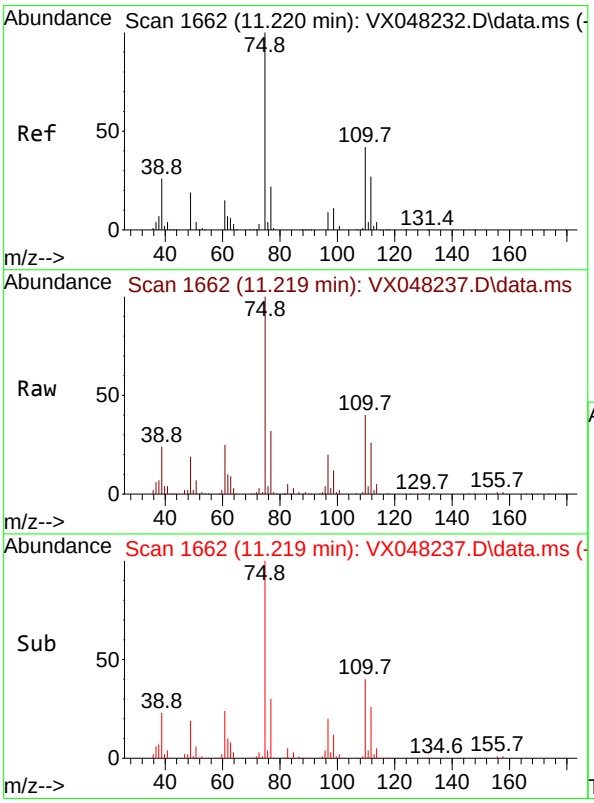
Ion	Ratio	Lower	Upper
83	100		
131	10.6	4.8	14.4
85	64.8	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

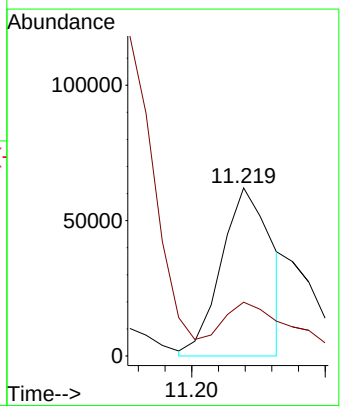


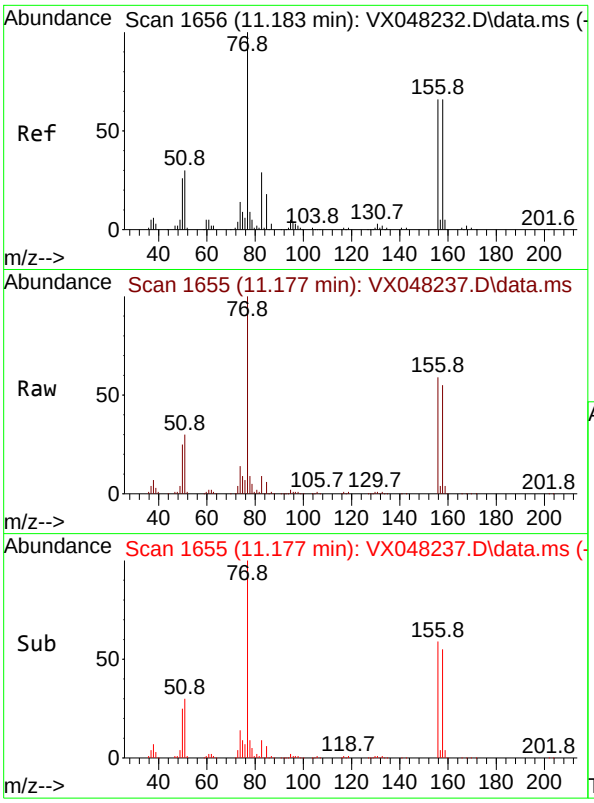


#76
1,2,3-Trichloropropane
Concen: 50.456 ug/l m
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 75 Resp: 81093

Ion	Ratio	Lower	Upper
75	100		
77	45.4	22.4	67.2





#77
Bromobenzene
Concen: 50.135 ug/l
RT: 11.177 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

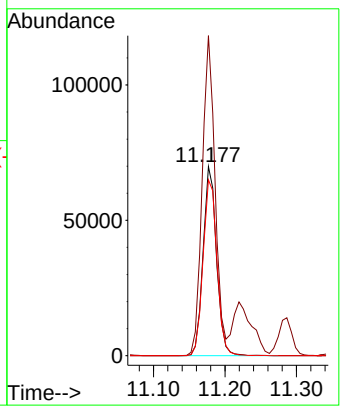
Tgt Ion:156 Resp: 9100

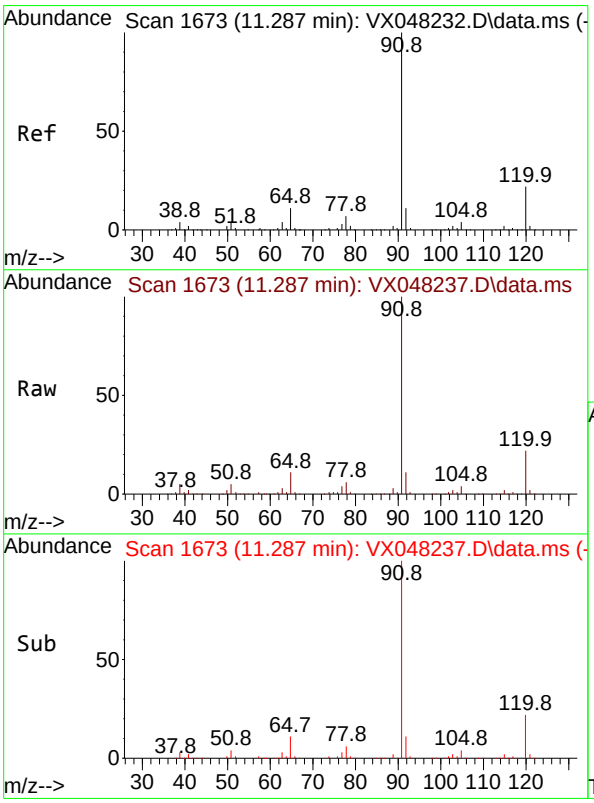
Ion	Ratio	Lower	Upper
156	100		
77	162.5	87.0	261.0
158	96.4	47.8	143.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

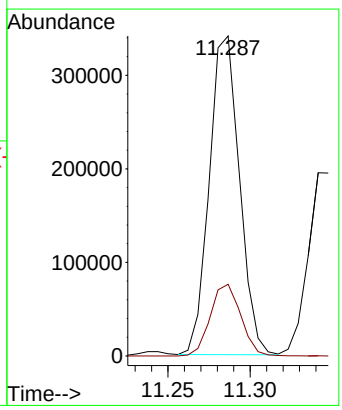


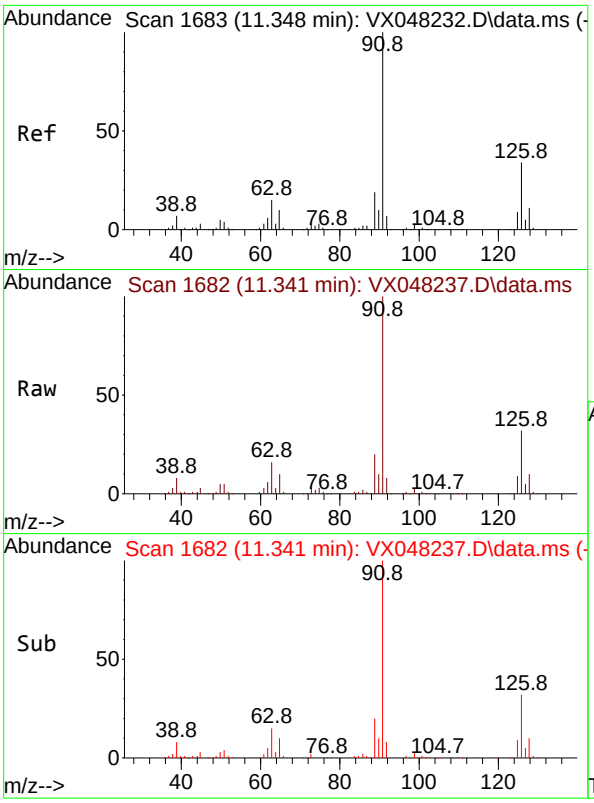


#78
n-propylbenzene
Concen: 51.980 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 91 Resp: 435662

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.1	33.1





#79
2-Chlorotoluene
Concen: 50.760 ug/l
RT: 11.341 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

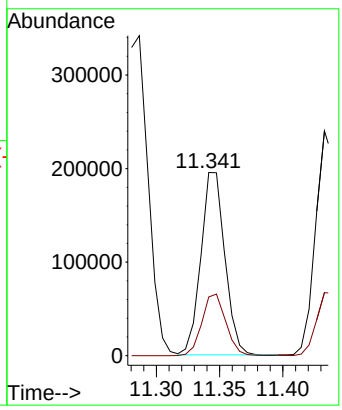
Tgt Ion: 91 Resp: 25793

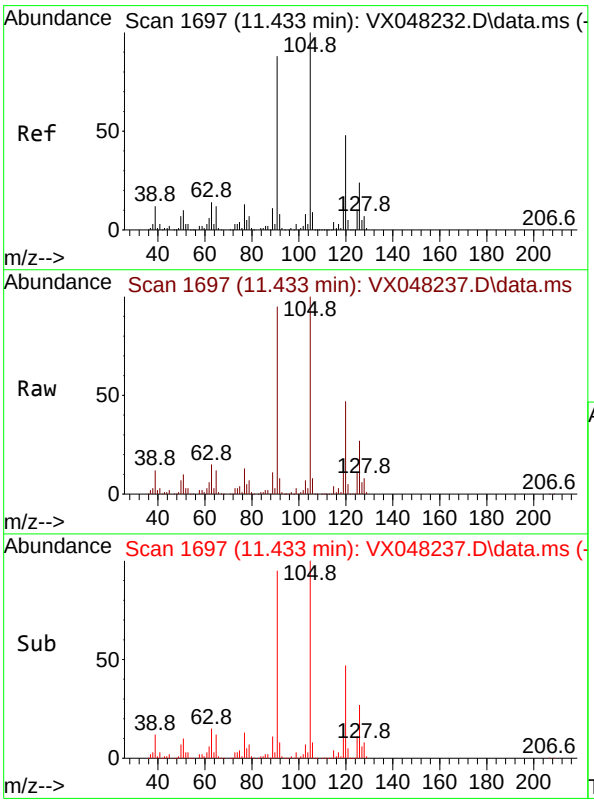
Ion	Ratio	Lower	Upper
91	100		
126	33.7	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

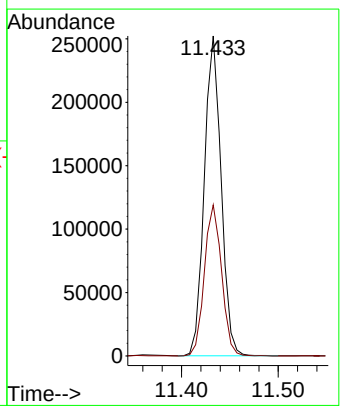


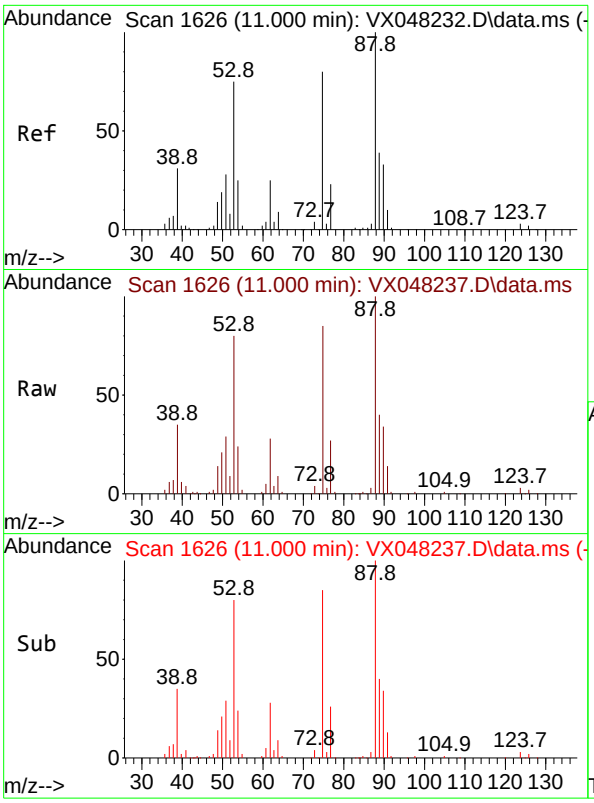


#80
1,3,5-Trimethylbenzene
Concen: 50.918 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:105 Resp: 305027

Ion	Ratio	Lower	Upper
105	100		
120	48.5	24.0	72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 49.995 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

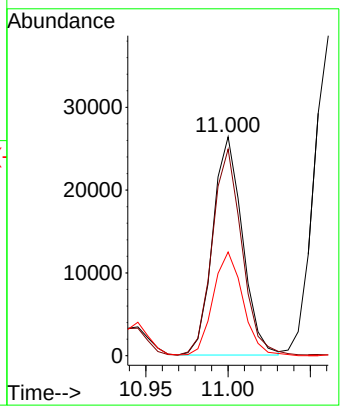
Tgt Ion: 75 Resp: 3302

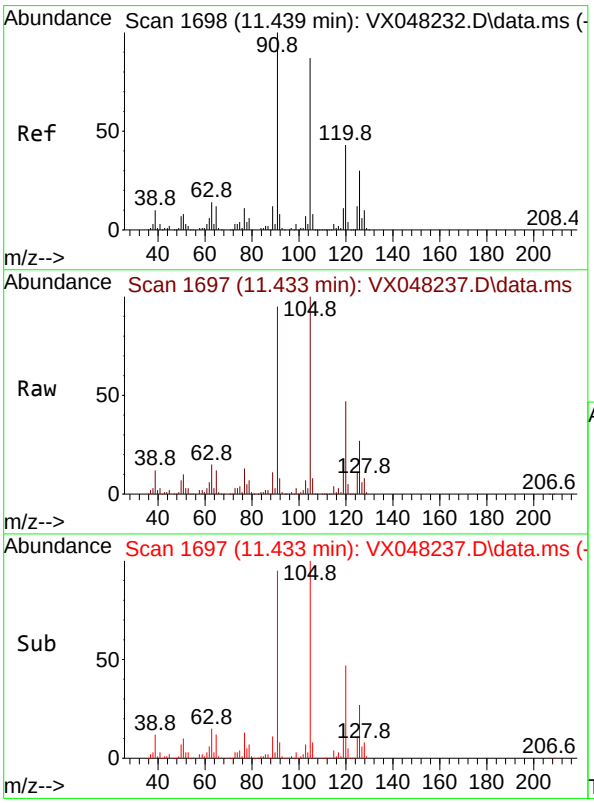
Ion	Ratio	Lower	Upper
75	100		
53	95.4	79.5	119.3
89	48.1	36.8	55.2

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

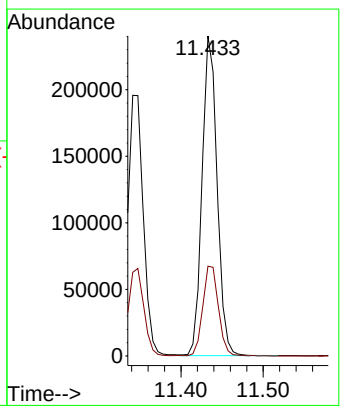


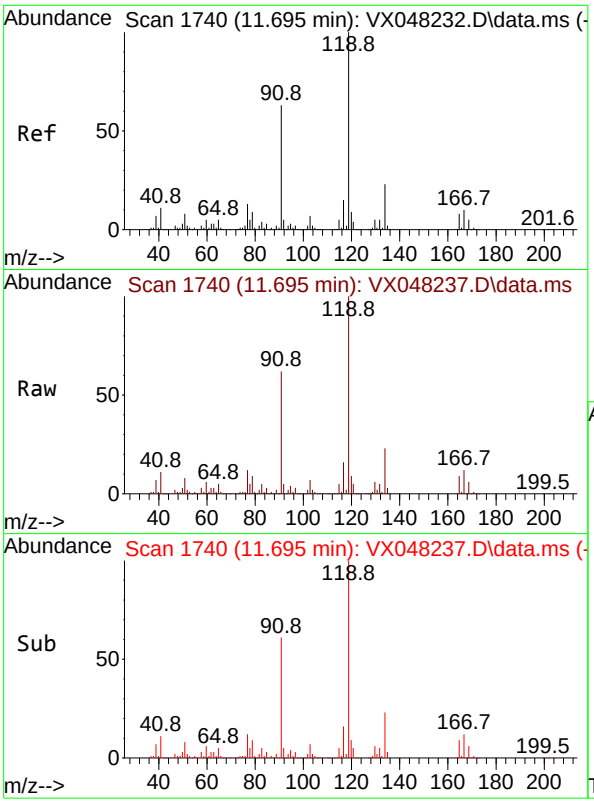


#82
4-Chlorotoluene
Concen: 50.507 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 91 Resp: 304670

Ion	Ratio	Lower	Upper
91	100		
126	29.5	14.1	42.4

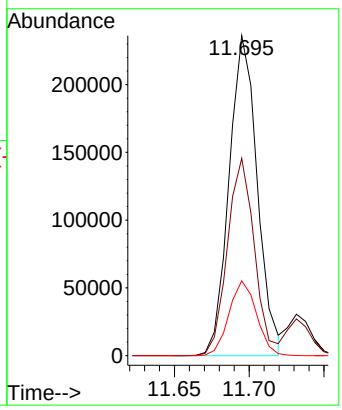




#83
tert-Butylbenzene
Concen: 50.288 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:119 Resp: 30952

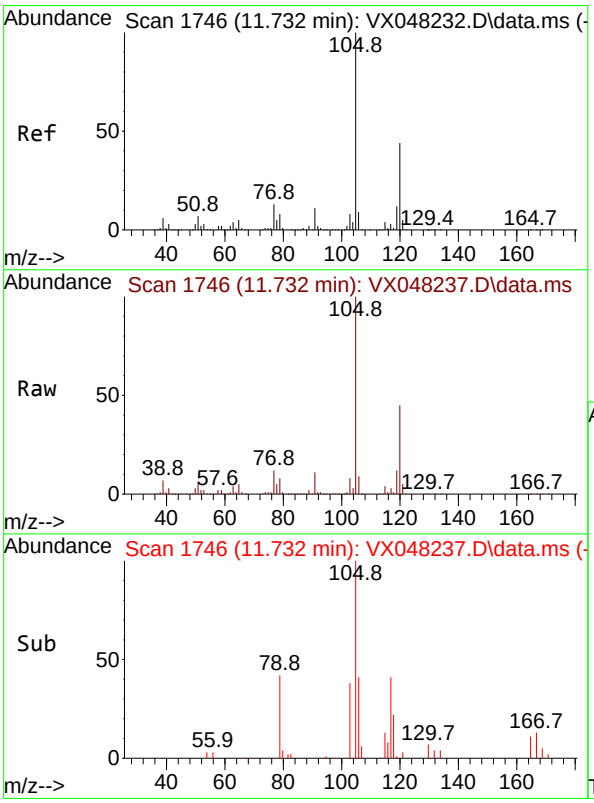
Ion	Ratio	Lower	Upper
119	100		
91	59.2	30.3	91.0
134	22.9	11.4	34.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

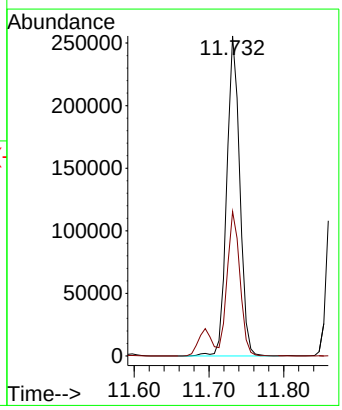
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

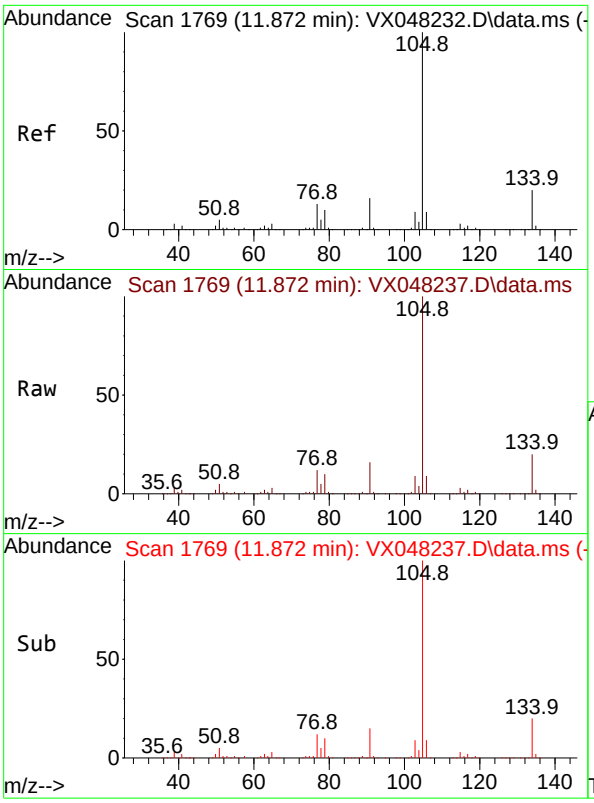


#84
1,2,4-Trimethylbenzene
Concen: 51.607 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:105 Resp: 308529

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.5

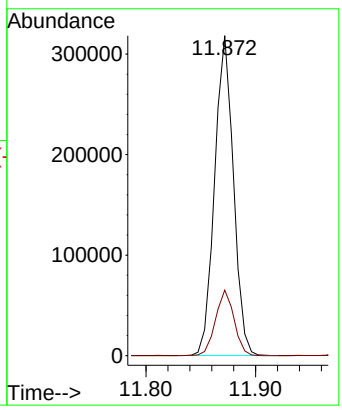




#85
sec-Butylbenzene
Concen: 51.230 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:105 Resp: 37936

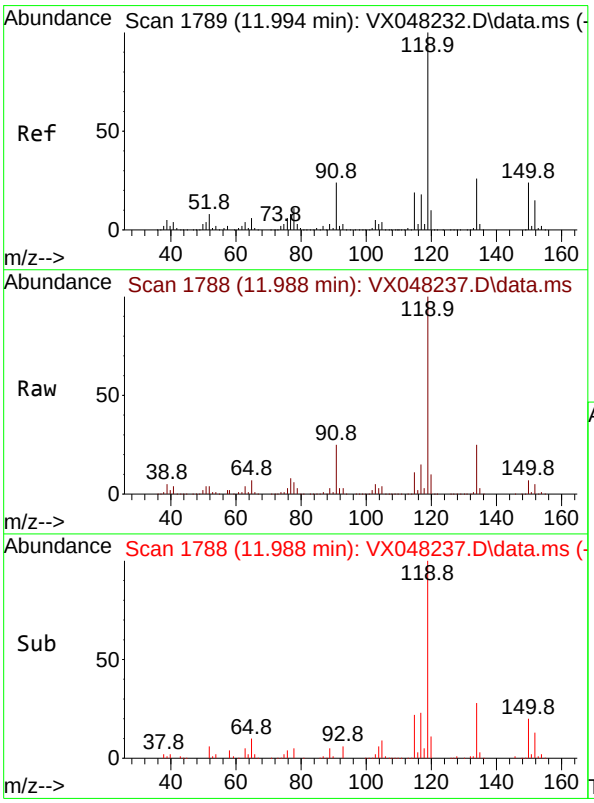
Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

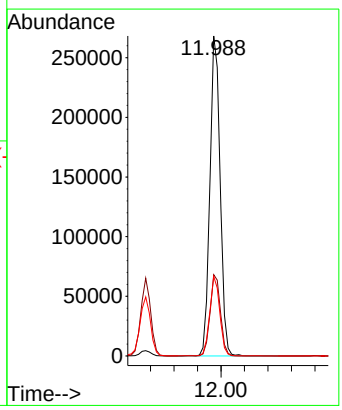
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

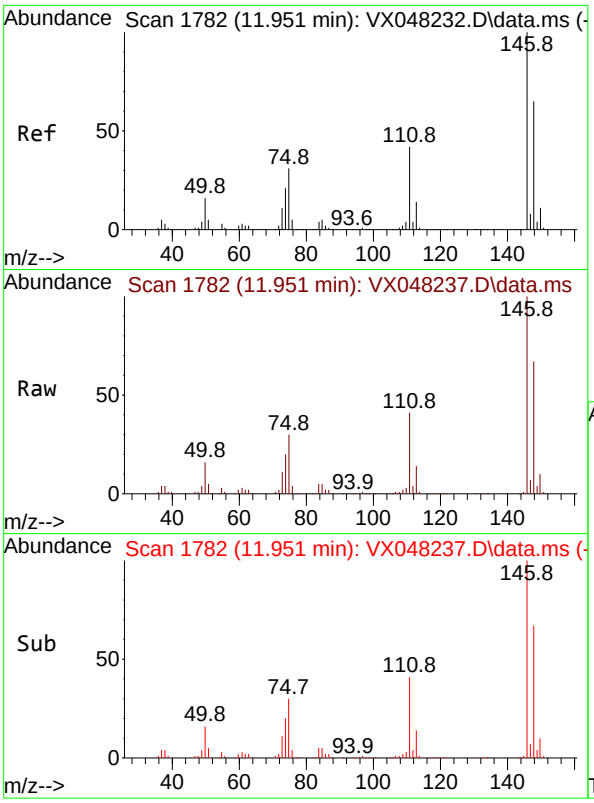


#86
p-Isopropyltoluene
Concen: 50.686 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:119 Resp: 324425

Ion	Ratio	Lower	Upper
119	100		
134	25.8	13.0	39.0
91	24.3	12.1	36.3





#87
1,3-Dichlorobenzene
Concen: 48.229 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

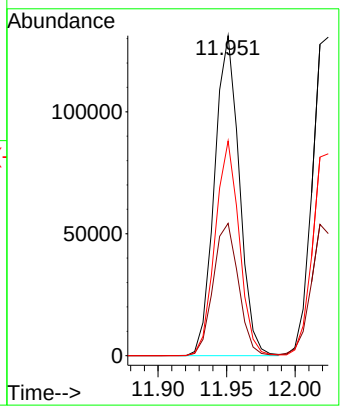
Tgt Ion:146 Resp: 16502

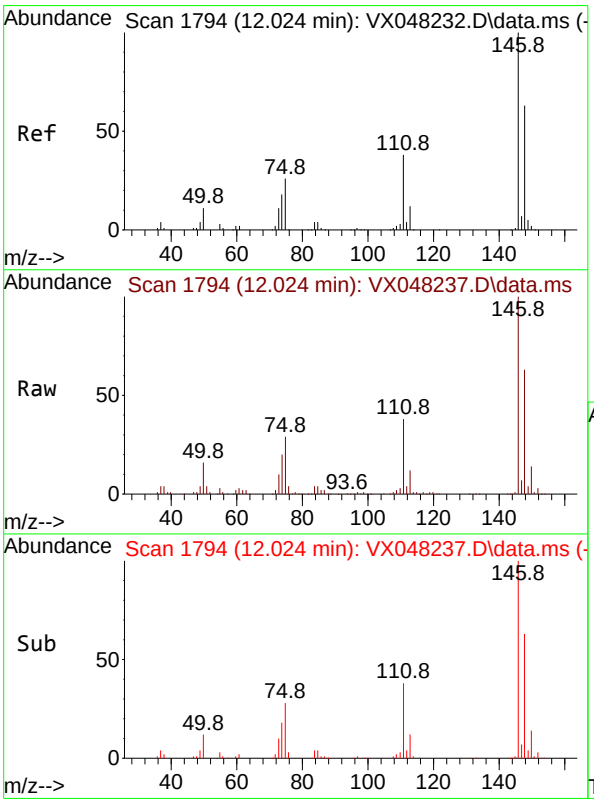
Ion	Ratio	Lower	Upper
146	100		
111	42.2	20.4	61.2
148	65.3	31.9	95.9

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

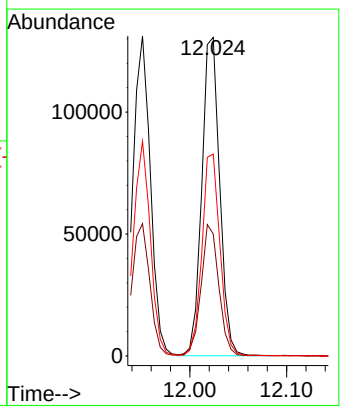


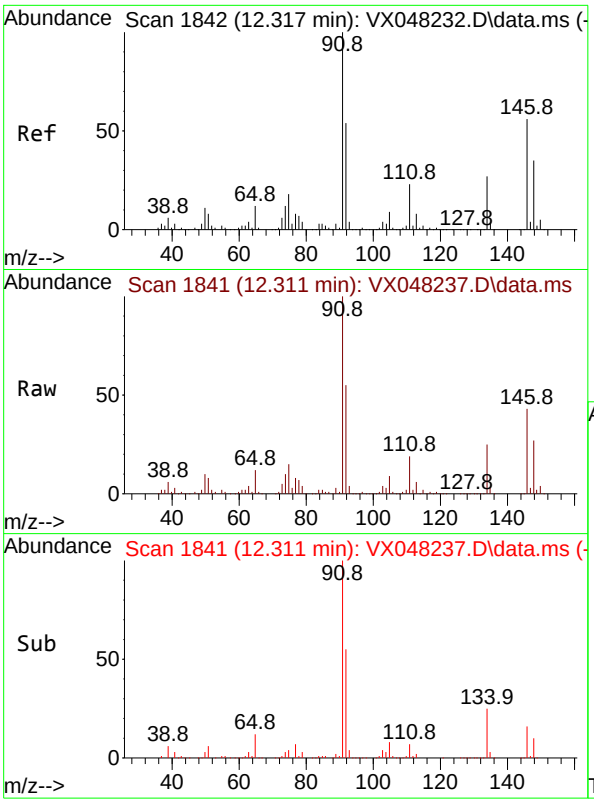


#88
1,4-Dichlorobenzene
Concen: 47.423 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:146 Resp: 168102

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.1	60.2
148	63.9	31.8	95.3





#89
n-Butylbenzene
Concen: 49.728 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

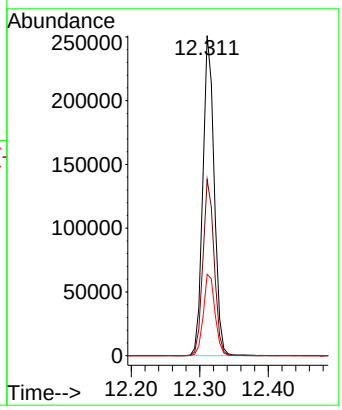
Tgt Ion: 91 Resp: 28970

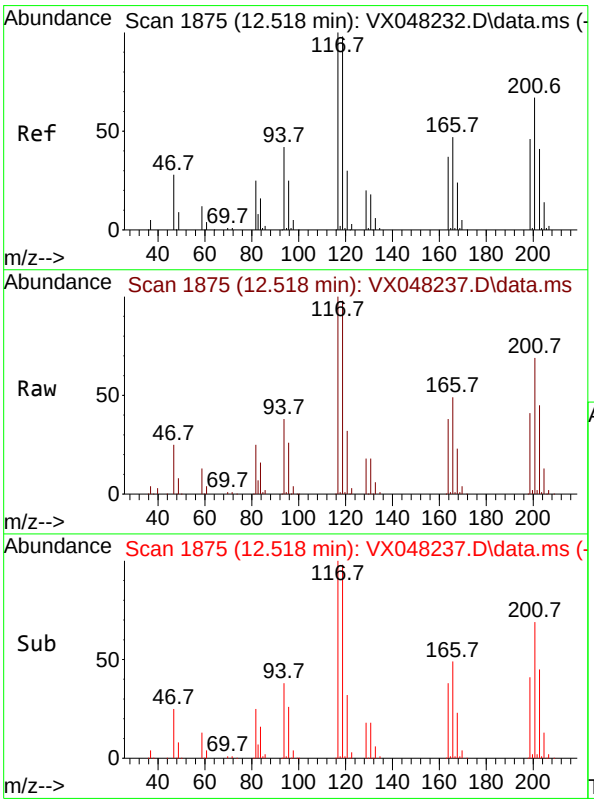
Ion	Ratio	Lower	Upper
91	100		
92	54.7	26.9	80.6
134	26.1	12.7	38.1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

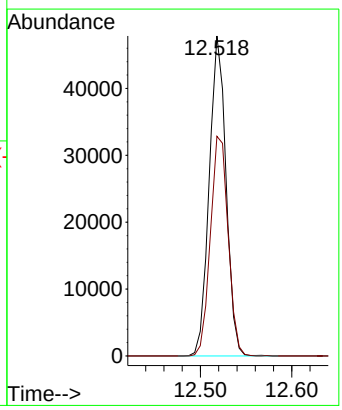


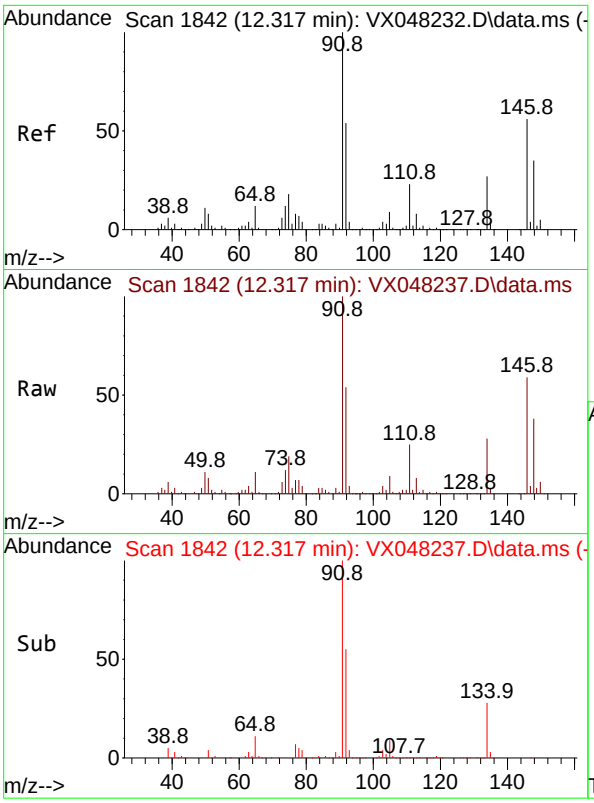


#90
Hexachloroethane
Concen: 48.437 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:117 Resp: 61223

Ion	Ratio	Lower	Upper
117	100		
201	72.4	34.1	102.2

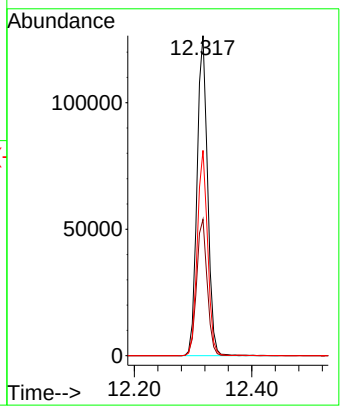




#91
1,2-Dichlorobenzene
Concen: 49.123 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:146 Resp: 15781

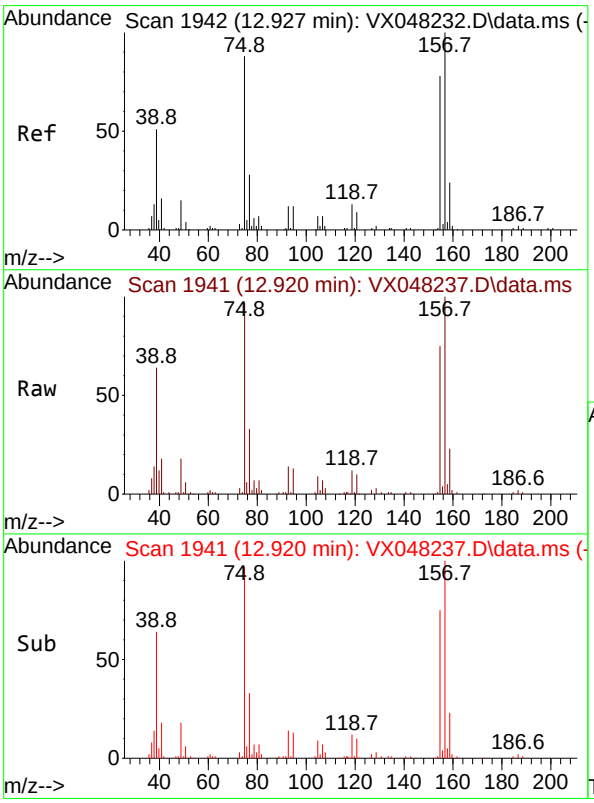
Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.9	65.5
148	62.8	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

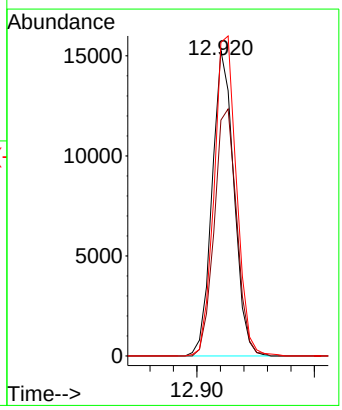
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

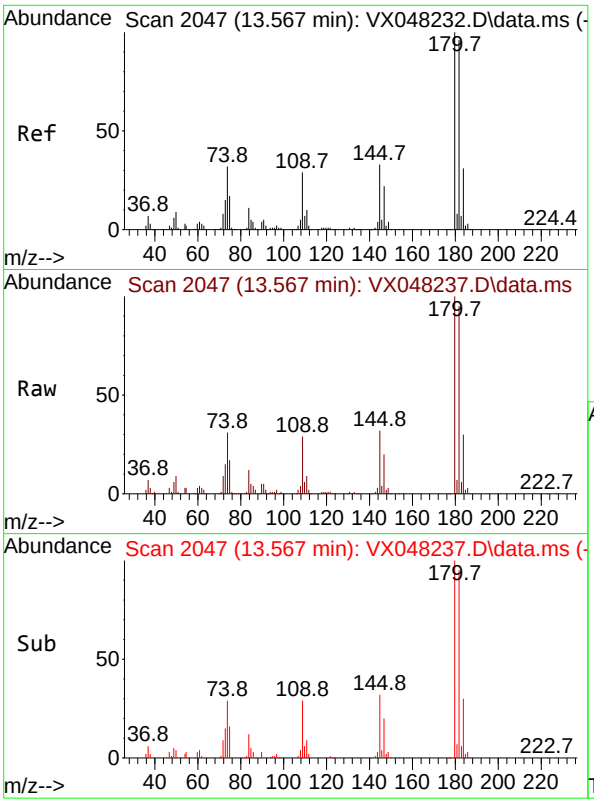


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.072 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 75 Resp: 19691

Ion	Ratio	Lower	Upper
75	100		
155	83.2	42.8	128.4
157	107.6	54.2	162.6





#93
1,2,4-Trichlorobenzene
Concen: 46.941 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

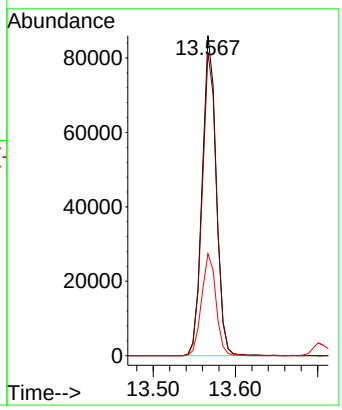
Tgt Ion:180 Resp: 10198

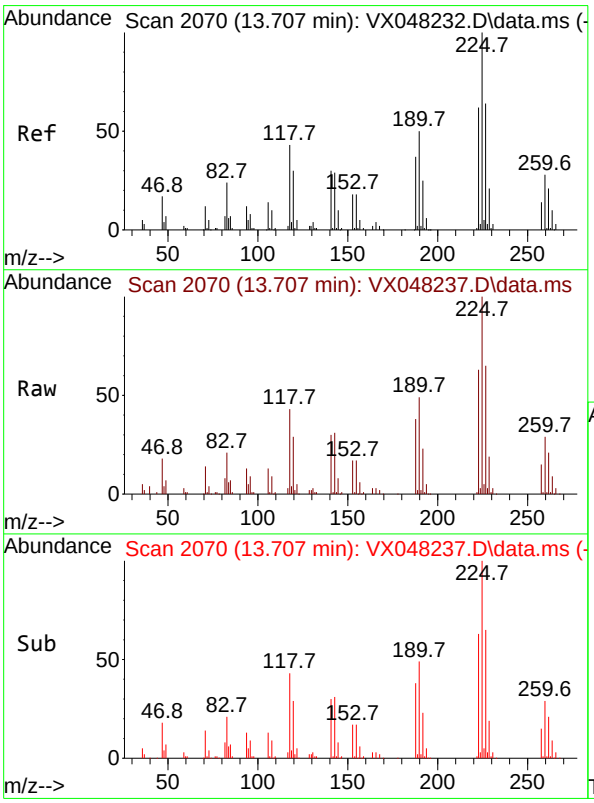
Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.3	142.0
145	32.5	16.3	48.9

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

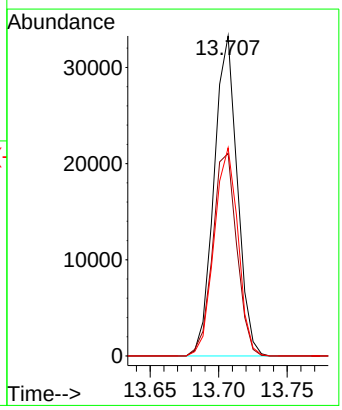


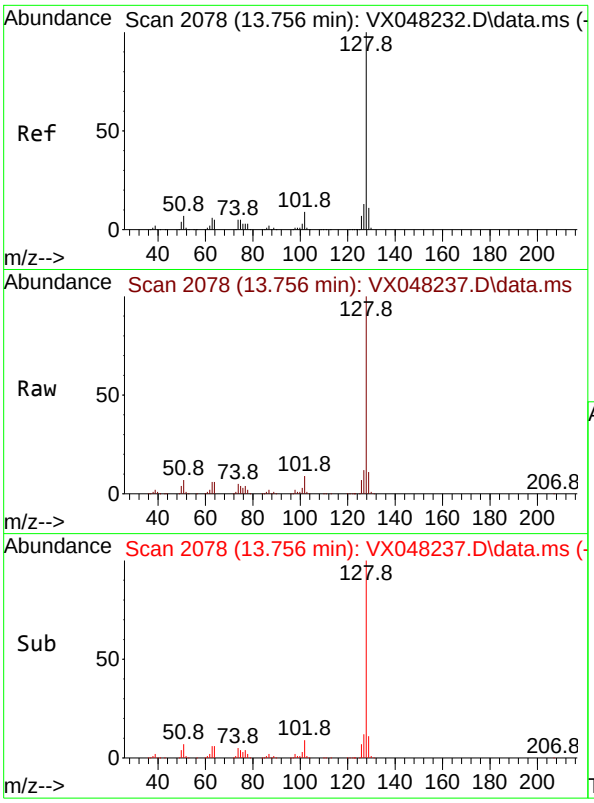


#94
Hexachlorobutadiene
Concen: 48.274 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:225 Resp: 39299

Ion	Ratio	Lower	Upper
225	100		
223	65.8	32.6	97.7
227	66.5	32.5	97.4

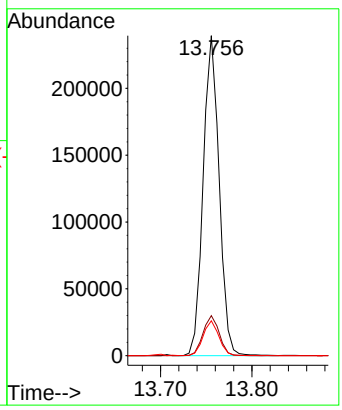




#95
Naphthalene
Concen: 50.362 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:128 Resp: 28988

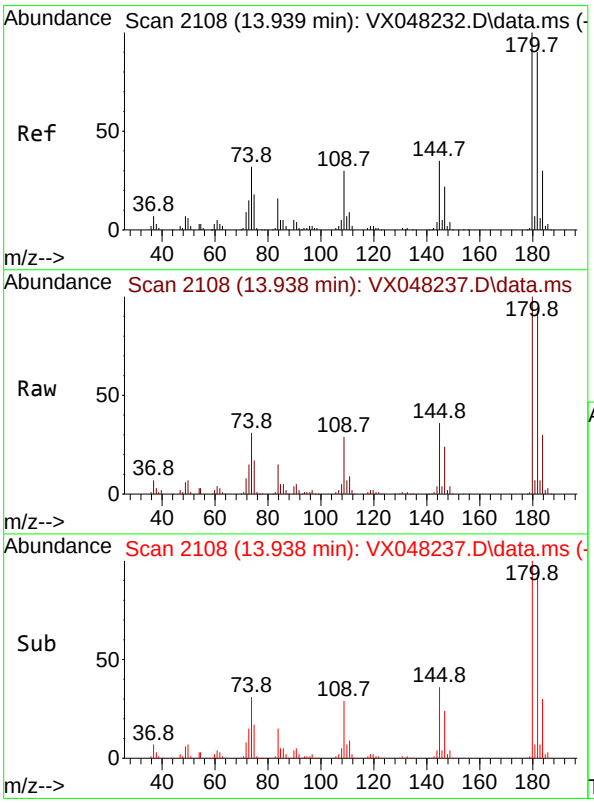
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.4
129	10.8	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

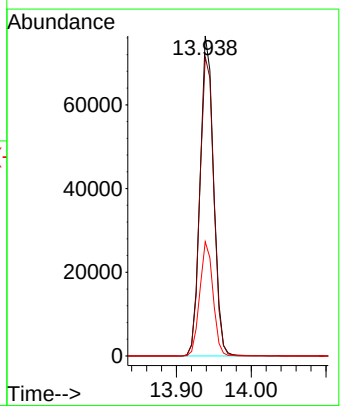
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 48.223 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:180 Resp: 96139

Ion	Ratio	Lower	Upper
180	100		
182	95.9	46.6	139.7
145	34.8	16.9	50.7



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048237.D
Acq On : 20 Oct 2025 14:28
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Quant Time: Oct 20 16:37:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	116	-0.01
2	T	Dichlorodifluoromethane	0.514	0.528	-2.7	127	0.00
3	P	Chloromethane	0.480	0.513	-6.9	133	0.00
4	C	Vinyl Chloride	0.444	0.493	-11.0#	138	0.00
5	T	Bromomethane	0.302	0.331	-9.6	136	0.00
6	T	Chloroethane	0.261	0.294	-12.6	139	0.00
7	T	Trichlorofluoromethane	0.852	0.890	-4.5	128	0.00
8	T	Diethyl Ether	0.240	0.258	-7.5	135	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.540	0.578	-7.0	134	0.00
10	T	Methyl Iodide	0.678	0.651	4.0	114	0.00
11	T	Tert butyl alcohol	0.070	0.062	11.4	117	0.00
12	CM	1,1-Dichloroethene	0.525	0.546	-4.0#	131	0.00
13	T	Acrolein	0.071	0.071	0.0	126	0.00
14	T	Allyl chloride	0.872	0.891	-2.2	129	0.00
15	T	Acrylonitrile	0.251	0.252	-0.4	122	0.00
16	T	Acetone	0.240	0.211	12.1	121	0.00
17	T	Carbon Disulfide	1.654	1.614	2.4	130	0.00
18	T	Methyl Acetate	0.502	0.494	1.6	123	0.00
19	T	Methyl tert-butyl Ether	1.791	1.761	1.7	120	0.00
20	T	Methylene Chloride	0.586	0.598	-2.0	126	0.00
21	T	trans-1,2-Dichloroethene	0.577	0.587	-1.7	128	0.00
22	T	Diisopropyl ether	1.738	1.796	-3.3	126	0.00
23	T	Vinyl Acetate	1.389	1.445	-4.0	125	0.00
24	P	1,1-Dichloroethane	1.051	1.040	1.0	124	0.00
25	T	2-Butanone	0.304	0.290	4.6	120	0.00
26	T	2,2-Dichloropropane	0.949	0.915	3.6	121	0.00
27	T	cis-1,2-Dichloroethene	0.673	0.678	-0.7	126	-0.01
28	T	Bromochloromethane	0.436	0.406	6.9	107	0.00
29	T	Tetrahydrofuran	0.182	0.177	2.7	120	-0.01
30	C	Chloroform	1.123	1.088	3.1#	121	0.00
31	T	Cyclohexane	0.870	0.916	-5.3	130	0.00
32	T	1,1,1-Trichloroethane	1.035	1.000	3.4	120	-0.01
33	S	1,2-Dichloroethane-d4	0.701	0.641	8.6	109	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	114	0.00
35	S	Dibromofluoromethane	0.341	0.334	2.1	115	0.00
36	T	1,1-Dichloropropene	0.485	0.479	1.2	126	-0.01
37	T	Ethyl Acetate	0.402	0.384	4.5	119	0.00
38	T	Carbon Tetrachloride	0.599	0.577	3.7	119	0.00
39	T	Methylcyclohexane	0.573	0.604	-5.4	127	0.00
40	TM	Benzene	1.409	1.415	-0.4	124	0.00
41	T	Methacrylonitrile	0.211	0.213	-0.9	118	-0.01
42	TM	1,2-Dichloroethane	0.520	0.509	2.1	116	0.00
43	T	Isopropyl Acetate	0.661	0.658	0.5	118	0.00
44	TM	Trichloroethene	0.372	0.376	-1.1	123	0.00
45	C	1,2-Dichloropropane	0.335	0.342	-2.1#	121	0.00
46	T	Dibromomethane	0.261	0.255	2.3	118	0.00
47	T	Bromodichloromethane	0.563	0.546	3.0	115	0.00
48	T	Methyl methacrylate	0.333	0.330	0.9	117	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048237.D
Acq On : 20 Oct 2025 14:28
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Quant Time: Oct 20 16:37:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	0.004	0.004	0.0	113	0.00
50	S	Toluene-d8	1.196	1.158	3.2	111	0.00
51	T	4-Methyl-2-Pentanone	0.381	0.373	2.1	113	0.00
52	CM	Toluene	0.895	0.896	-0.1#	118	0.00
53	T	t-1,3-Dichloropropene	0.543	0.543	0.0	113	0.00
54	T	cis-1,3-Dichloropropene	0.586	0.585	0.2	116	0.00
55	T	1,1,2-Trichloroethane	0.333	0.330	0.9	117	0.00
56	T	Ethyl methacrylate	0.487	0.486	0.2	113	0.00
57	T	1,3-Dichloropropane	0.568	0.560	1.4	116	0.00
58	T	2-Chloroethyl Vinyl ether	0.232	0.253	-9.1	111	0.00
59	T	2-Hexanone	0.266	0.261	1.9	112	0.00
60	T	Dibromochloromethane	0.447	0.425	4.9	114	0.00
61	T	1,2-Dibromoethane	0.355	0.350	1.4	116	0.00
62	S	4-Bromofluorobenzene	0.455	0.426	6.4	109	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	109	0.00
64	T	Tetrachloroethene	0.373	0.363	2.7	121	0.00
65	PM	Chlorobenzene	1.125	1.127	-0.2	118	0.00
66	T	1,1,1,2-Tetrachloroethane	0.413	0.405	1.9	113	0.00
67	C	Ethyl Benzene	1.915	1.946	-1.6#	116	0.00
68	T	m/p-Xylenes	0.712	0.729	-2.4	116	0.00
69	T	o-Xylene	0.687	0.693	-0.9	114	0.00
70	T	Styrene	1.170	1.208	-3.2	115	0.00
71	P	Bromoform	0.330	0.319	3.3	113	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00
73	T	Isopropylbenzene	3.652	3.773	-3.3	118	0.00
74	T	N-amyl acetate	1.295	1.332	-2.9	114	0.00
75	P	1,1,2,2-Tetrachloroethane	0.997	0.996	0.1	113	0.00
76	T	1,2,3-Trichloropropane	0.811	0.818	-0.9	119	0.00
77	T	Bromobenzene	0.916	0.918	-0.2	114	0.00
78	T	n-propylbenzene	4.228	4.396	-4.0	117	0.00
79	T	2-Chlorotoluene	2.564	2.603	-1.5	116	0.00
80	T	1,3,5-Trimethylbenzene	3.022	3.078	-1.9	115	0.00
81	T	trans-1,4-Dichloro-2-butene	0.333	0.333	0.0	113	0.00
82	T	4-Chlorotoluene	3.043	3.074	-1.0	114	0.00
83	T	tert-Butylbenzene	3.105	3.123	-0.6	115	0.00
84	T	1,2,4-Trimethylbenzene	3.016	3.113	-3.2	116	0.00
85	T	sec-Butylbenzene	3.736	3.828	-2.5	118	0.00
86	T	p-Isopropyltoluene	3.229	3.273	-1.4	117	0.00
87	T	1,3-Dichlorobenzene	1.726	1.665	3.5	115	0.00
88	T	1,4-Dichlorobenzene	1.788	1.696	5.1	115	0.00
89	T	n-Butylbenzene	2.939	2.923	0.5	119	0.00
90	T	Hexachloroethane	0.638	0.618	3.1	116	0.00
91	T	1,2-Dichlorobenzene	1.621	1.592	1.8	114	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.202	0.199	1.5	109	0.00
93	T	1,2,4-Trichlorobenzene	1.096	1.029	6.1	115	0.00
94	T	Hexachlorobutadiene	0.507	0.397	21.7	114	0.00
95	T	Naphthalene	2.904	2.925	-0.7	113	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048237.D
Acq On : 20 Oct 2025 14:28
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Quant Time: Oct 20 16:37:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	0.970	3.6	114	0.00

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

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048237.D
Acq On : 20 Oct 2025 14:28
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Quant Time: Oct 20 16:37:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	116	-0.01
2	T	Dichlorodifluoromethane	50.000	51.331	-2.7	127	0.00
3	P	Chloromethane	50.000	53.491	-7.0	133	0.00
4	C	Vinyl Chloride	50.000	55.441	-10.9#	138	0.00
5	T	Bromomethane	50.000	54.847	-9.7	136	0.00
6	T	Chloroethane	50.000	56.320	-12.6	139	0.00
7	T	Trichlorofluoromethane	50.000	52.209	-4.4	128	0.00
8	T	Diethyl Ether	50.000	53.742	-7.5	135	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	53.589	-7.2	134	0.00
10	T	Methyl Iodide	50.000	47.994	4.0	114	0.00
11	T	Tert butyl alcohol	250.000	223.693	10.5	117	0.00
12	CM	1,1-Dichloroethene	50.000	52.043	-4.1#	131	0.00
13	T	Acrolein	250.000	249.473	0.2	126	0.00
14	T	Allyl chloride	50.000	51.099	-2.2	129	0.00
15	T	Acrylonitrile	250.000	250.900	-0.4	122	0.00
16	T	Acetone	250.000	219.789	12.1	121	0.00
17	T	Carbon Disulfide	50.000	48.792	2.4	130	0.00
18	T	Methyl Acetate	50.000	49.190	1.6	123	0.00
19	T	Methyl tert-butyl Ether	50.000	49.162	1.7	120	0.00
20	T	Methylene Chloride	50.000	51.066	-2.1	126	0.00
21	T	trans-1,2-Dichloroethene	50.000	50.932	-1.9	128	0.00
22	T	Diisopropyl ether	50.000	51.665	-3.3	126	0.00
23	T	Vinyl Acetate	250.000	260.168	-4.1	125	0.00
24	P	1,1-Dichloroethane	50.000	49.490	1.0	124	0.00
25	T	2-Butanone	250.000	238.354	4.7	120	0.00
26	T	2,2-Dichloropropane	50.000	48.230	3.5	121	0.00
27	T	cis-1,2-Dichloroethene	50.000	50.350	-0.7	126	-0.01
28	T	Bromochloromethane	50.000	46.587	6.8	107	0.00
29	T	Tetrahydrofuran	250.000	242.572	3.0	120	-0.01
30	C	Chloroform	50.000	48.427	3.1#	121	0.00
31	T	Cyclohexane	50.000	52.646	-5.3	130	0.00
32	T	1,1,1-Trichloroethane	50.000	48.309	3.4	120	-0.01
33	S	1,2-Dichloroethane-d4	50.000	45.687	8.6	109	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	114	0.00
35	S	Dibromofluoromethane	50.000	48.951	2.1	115	0.00
36	T	1,1-Dichloropropene	50.000	49.344	1.3	126	-0.01
37	T	Ethyl Acetate	50.000	47.684	4.6	119	0.00
38	T	Carbon Tetrachloride	50.000	48.228	3.5	119	0.00
39	T	Methylcyclohexane	50.000	52.670	-5.3	127	0.00
40	TM	Benzene	50.000	50.241	-0.5	124	0.00
41	T	Methacrylonitrile	50.000	50.358	-0.7	118	-0.01
42	TM	1,2-Dichloroethane	50.000	48.963	2.1	116	0.00
43	T	Isopropyl Acetate	50.000	49.816	0.4	118	0.00
44	TM	Trichloroethene	50.000	50.582	-1.2	123	0.00
45	C	1,2-Dichloropropane	50.000	50.994	-2.0#	121	0.00
46	T	Dibromomethane	50.000	48.913	2.2	118	0.00
47	T	Bromodichloromethane	50.000	48.459	3.1	115	0.00
48	T	Methyl methacrylate	50.000	49.519	1.0	117	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048237.D
Acq On : 20 Oct 2025 14:28
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Quant Time: Oct 20 16:37:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	1000.197	-0.0	113	0.00
50	S	Toluene-d8	50.000	48.386	3.2	111	0.00
51	T	4-Methyl-2-Pentanone	250.000	244.897	2.0	113	0.00
52	CM	Toluene	50.000	50.088	-0.2#	118	0.00
53	T	t-1,3-Dichloropropene	50.000	50.004	-0.0	113	0.00
54	T	cis-1,3-Dichloropropene	50.000	49.944	0.1	116	0.00
55	T	1,1,2-Trichloroethane	50.000	49.597	0.8	117	0.00
56	T	Ethyl methacrylate	50.000	49.964	0.1	113	0.00
57	T	1,3-Dichloropropane	50.000	49.226	1.5	116	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	242.124	3.2	111	0.00
59	T	2-Hexanone	250.000	246.102	1.6	112	0.00
60	T	Dibromochloromethane	50.000	47.530	4.9	114	0.00
61	T	1,2-Dibromoethane	50.000	49.319	1.4	116	0.00
62	S	4-Bromofluorobenzene	50.000	46.795	6.4	109	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	109	0.00
64	T	Tetrachloroethene	50.000	48.686	2.6	121	0.00
65	PM	Chlorobenzene	50.000	50.095	-0.2	118	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	49.014	2.0	113	0.00
67	C	Ethyl Benzene	50.000	50.798	-1.6#	116	0.00
68	T	m/p-Xylenes	100.000	102.416	-2.4	116	0.00
69	T	o-Xylene	50.000	50.424	-0.8	114	0.00
70	T	Styrene	50.000	51.651	-3.3	115	0.00
71	P	Bromoform	50.000	48.250	3.5	113	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	107	0.00
73	T	Isopropylbenzene	50.000	51.658	-3.3	118	0.00
74	T	N-amyl acetate	50.000	51.399	-2.8	114	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.936	0.1	113	0.00
76	T	1,2,3-Trichloropropane	50.000	50.456	-0.9	119	0.00
77	T	Bromobenzene	50.000	50.135	-0.3	114	0.00
78	T	n-propylbenzene	50.000	51.980	-4.0	117	0.00
79	T	2-Chlorotoluene	50.000	50.760	-1.5	116	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.918	-1.8	115	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	49.995	0.0	113	0.00
82	T	4-Chlorotoluene	50.000	50.507	-1.0	114	0.00
83	T	tert-Butylbenzene	50.000	50.288	-0.6	115	0.00
84	T	1,2,4-Trimethylbenzene	50.000	51.607	-3.2	116	0.00
85	T	sec-Butylbenzene	50.000	51.230	-2.5	118	0.00
86	T	p-Isopropyltoluene	50.000	50.686	-1.4	117	0.00
87	T	1,3-Dichlorobenzene	50.000	48.229	3.5	115	0.00
88	T	1,4-Dichlorobenzene	50.000	47.423	5.2	115	0.00
89	T	n-Butylbenzene	50.000	49.728	0.5	119	0.00
90	T	Hexachloroethane	50.000	48.437	3.1	116	0.00
91	T	1,2-Dichlorobenzene	50.000	49.123	1.8	114	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	49.072	1.9	109	0.00
93	T	1,2,4-Trichlorobenzene	50.000	46.941	6.1	115	0.00
94	T	Hexachlorobutadiene	50.000	48.274	3.5	114	0.00
95	T	Naphthalene	50.000	50.362	-0.7	113	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048237.D
Acq On : 20 Oct 2025 14:28
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Quant Time: Oct 20 16:37:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	48.223	3.6	114	0.00

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

Raw Data: **VX048250.D**

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: TETR06

Lab Code: ACE | SDG No.: Q3371

Instrument ID: MSVOA_X | Calibration Date/Time: 10/20/2025 19:25

Lab File ID: VX048250.D | Init. Calib. Date(s): 10/20/2025 10/20/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 10:59 13:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.514	0.390		-24.13	50
Chloromethane	0.480	0.382	0.1	-20.42	50
Vinyl Chloride	0.444	0.366		-17.57	50
Bromomethane	0.302	0.257		-14.9	50
Chloroethane	0.261	0.226		-13.41	50
Trichlorofluoromethane	0.852	0.698		-18.08	50
1,1,2-Trichlorotrifluoroethane	0.540	0.436		-19.26	50
1,1-Dichloroethene	0.525	0.438		-16.57	50
Acetone	0.240	0.168		-30	50
Carbon Disulfide	1.654	1.268		-23.34	50
Methyl tert-butyl Ether	1.791	1.597		-10.83	50
Methyl Acetate	0.502	0.453		-9.76	50
Methylene Chloride	0.586	0.524		-10.58	50
trans-1,2-Dichloroethene	0.577	0.499		-13.52	50
1,1-Dichloroethane	1.051	0.916	0.1	-12.85	50
Cyclohexane	0.870	0.750		-13.79	50
2-Butanone	0.304	0.257		-15.46	50
Carbon Tetrachloride	0.599	0.454		-24.21	50
cis-1,2-Dichloroethene	0.673	0.594		-11.74	50
Bromochloromethane	0.436	0.446		2.29	50
Chloroform	1.123	0.970		-13.62	50
1,1,1-Trichloroethane	1.035	0.882		-14.78	50
Methylcyclohexane	0.573	0.450		-21.47	50
Benzene	1.409	1.178		-16.4	50
1,2-Dichloroethane	0.520	0.431		-17.11	50
Trichloroethene	0.372	0.306		-17.74	50
1,2-Dichloropropane	0.335	0.289		-13.73	50
Bromodichloromethane	0.563	0.468		-16.87	50
4-Methyl-2-Pentanone	0.381	0.326		-14.44	50
Toluene	0.895	0.741		-17.21	50
t-1,3-Dichloropropene	0.543	0.460		-15.28	50
cis-1,3-Dichloropropene	0.586	0.492		-16.04	50
1,1,2-Trichloroethane	0.333	0.282		-15.31	50
2-Hexanone	0.266	0.224		-15.79	50
Dibromochloromethane	0.447	0.366		-18.12	50
1,2-Dibromoethane	0.355	0.301		-15.21	50
Tetrachloroethene	0.373	0.280		-24.93	50
Chlorobenzene	1.125	0.895	0.3	-20.44	50

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

Raw Data: **VX048250.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: TETR06
Lab Code: ACE
SDG No.: Q3371
Instrument ID: MSVOA_X
Calibration Date/Time: 10/20/2025 19:25
Lab File ID: VX048250.D
Init. Calib. Date(s): 10/20/2025 10/20/2025
Heated Purge: (Y/N) N
Init. Calib. Time(s): 10:59 13:49
GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.915	1.531		-20.05	50
m/p-Xylenes	0.712	0.582		-18.26	50
o-Xylene	0.687	0.558		-18.78	50
Styrene	1.170	0.976		-16.58	50
Bromoform	0.330	0.259	0.1	-21.51	50
Isopropylbenzene	3.652	2.868		-21.47	50
1,1,2,2-Tetrachloroethane	0.997	0.804	0.3	-19.36	50
1,3-Dichlorobenzene	1.726	1.338		-22.48	50
1,4-Dichlorobenzene	1.788	1.344		-24.83	50
1,2-Dichlorobenzene	1.621	1.253		-22.7	50
1,2-Dibromo-3-Chloropropane	0.202	0.163		-19.31	50
1,2,4-Trichlorobenzene	1.096	0.800		-27.01	50
1,2,3-Trichlorobenzene	1.006	0.753		-25.15	50
1,2-Dichloroethane-d4	0.701	0.653		-6.85	50
Dibromofluoromethane	0.341	0.312		-8.5	50
Toluene-d8	1.196	1.070		-10.53	50
4-Bromofluorobenzene	0.455	0.424		-6.81	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\VX102025\
Data File : VX048250.D
Acq On : 20 Oct 2025 19:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 21 06:16:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	139607	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	238004	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	222585	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	111726	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	91100	46.542	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 93.080%			
35) Dibromofluoromethane	5.373	113	74151	45.636	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 91.280%			
50) Toluene-d8	8.634	98	254653	44.713	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 89.420%#			
62) 4-Bromofluorobenzene	11.061	95	100937	46.587	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 93.180%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	54463	37.949	ug/l	97
3) Chloromethane	1.300	50	53315	39.799	ug/l	96
4) Vinyl Chloride	1.380	62	51029	41.136	ug/l	99
5) Bromomethane	1.611	94	35864	42.601	ug/l	94
6) Chloroethane	1.691	64	31620	43.378	ug/l	97
7) Trichlorofluoromethane	1.892	101	97500	40.982	ug/l	99
8) Diethyl Ether	2.136	74	30102	44.968	ug/l	88
9) 1,1,2-Trichlorotrifluo...	2.337	101	60929	40.443	ug/l	95
10) Methyl Iodide	2.459	142	84168	44.441	ug/l	100
11) Tert butyl alcohol	2.946	59	37972	195.385	ug/l	98
12) 1,1-Dichloroethene	2.325	96	61159	41.727	ug/l	94
13) Acrolein	2.239	56	42514	214.491	ug/l	98
14) Allyl chloride	2.666	41	103340	42.467	ug/l	97
15) Acrylonitrile	3.056	53	156803	223.753	ug/l	99
16) Acetone	2.373	43	117599	175.130	ug/l	96
17) Carbon Disulfide	2.514	76	177056	38.329	ug/l	100
18) Methyl Acetate	2.703	43	63263	45.112	ug/l	96
19) Methyl tert-butyl Ether	3.111	73	222981	44.595	ug/l	100
20) Methylene Chloride	2.788	84	73170	44.720	ug/l	93
21) trans-1,2-Dichloroethene	3.093	96	69597	43.228	ug/l	96
22) Diisopropyl ether	3.751	45	223032	45.952	ug/l	93
23) Vinyl Acetate	3.715	43	896740	231.296	ug/l	96
24) 1,1-Dichloroethane	3.605	63	127890	43.578	ug/l	99
25) 2-Butanone	4.544	43	179090	210.709	ug/l	99
26) 2,2-Dichloropropane	4.471	77	103563	39.096	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	82973	44.159	ug/l	97
28) Bromochloromethane	4.891	49	62244	51.151	ug/l	90
29) Tetrahydrofuran	4.989	42	114202	224.351	ug/l	95
30) Chloroform	5.080	83	135447	43.198	ug/l	97
31) Cyclohexane	5.464	56	104755	43.114	ug/l	91
32) 1,1,1-Trichloroethane	5.373	97	123078	42.592	ug/l	98
36) 1,1-Dichloropropene	5.684	75	91151	39.469	ug/l	99
37) Ethyl Acetate	4.702	43	76900	40.173	ug/l	96
38) Carbon Tetrachloride	5.672	117	107972	37.895	ug/l	95
39) Methylcyclohexane	7.366	83	107188	39.300	ug/l	92
40) Benzene	6.025	78	280412	41.821	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048250.D
Acq On : 20 Oct 2025 19:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 21 06:16:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.903	41	42951	42.726	ug/l		96
42) 1,2-Dichloroethane	6.074	62	102580	41.460	ug/l		99
43) Isopropyl Acetate	6.324	43	133321	42.401	ug/l	#	94
44) Trichloroethene	7.110	130	72723	41.075	ug/l		89
45) 1,2-Dichloropropane	7.415	63	68867	43.200	ug/l		98
46) Dibromomethane	7.568	93	52507	42.277	ug/l		94
47) Bromodichloromethane	7.805	83	111343	41.521	ug/l		99
48) Methyl methacrylate	7.677	41	67583	42.595	ug/l		93
49) 1,4-Dioxane	7.647	88	16924	807.374	ug/l		93
51) 4-Methyl-2-Pentanone	8.555	43	387550	213.772	ug/l		95
52) Toluene	8.702	92	176360	41.403	ug/l		100
53) t-1,3-Dichloropropene	8.964	75	109424	42.344	ug/l		100
54) cis-1,3-Dichloropropene	8.354	75	117004	41.966	ug/l		94
55) 1,1,2-Trichloroethane	9.134	97	67214	42.431	ug/l		99
56) Ethyl methacrylate	9.104	69	103017	44.462	ug/l		93
57) 1,3-Dichloropropane	9.293	76	115414	42.655	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	266044	213.796	ug/l		96
59) 2-Hexanone	9.415	43	266829	211.078	ug/l		95
60) Dibromochloromethane	9.506	129	87021	40.872	ug/l		100
61) 1,2-Dibromoethane	9.592	107	71534	42.360	ug/l		98
64) Tetrachloroethene	9.256	164	62251	37.463	ug/l		99
65) Chlorobenzene	10.061	112	199218	39.787	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.146	131	72921	39.651	ug/l		99
67) Ethyl Benzene	10.177	91	340670	39.962	ug/l		99
68) m/p-Xylenes	10.287	106	258895	81.737	ug/l		99
69) o-Xylene	10.622	106	124210	40.619	ug/l		99
70) Styrene	10.640	104	217296	41.732	ug/l		99
71) Bromoform	10.780	173	57595	39.184	ug/l	#	100
73) Isopropylbenzene	10.945	105	320429	39.266	ug/l		99
74) N-amyl acetate	10.823	43	121526	41.983	ug/l		95
75) 1,1,2,2-Tetrachloroethane	11.195	83	89867	40.326	ug/l		99
76) 1,2,3-Trichloropropane	11.219	75	81515m	44.991	ug/l		
77) Bromobenzene	11.183	156	82137	40.142	ug/l		95
78) n-propylbenzene	11.286	91	375729	39.766	ug/l		97
79) 2-Chlorotoluene	11.347	91	227832	39.772	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	267685	39.638	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	28849	38.739	ug/l		98
82) 4-Chlorotoluene	11.439	91	269666	39.656	ug/l		97
83) tert-Butylbenzene	11.695	119	274302	39.532	ug/l		96
84) 1,2,4-Trimethylbenzene	11.731	105	270928	40.199	ug/l		100
85) sec-Butylbenzene	11.872	105	321937	38.565	ug/l		100
86) p-Isopropyltoluene	11.994	119	275642	38.201	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	149462	38.747	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	150187	37.584	ug/l		99
89) n-Butylbenzene	12.311	91	243576	37.088	ug/l		99
90) Hexachloroethane	12.518	117	51888	36.415	ug/l		94
91) 1,2-Dichlorobenzene	12.317	146	140047	38.670	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.920	75	18165	40.157	ug/l		98
93) 1,2,4-Trichlorobenzene	13.566	180	89376	36.492	ug/l		99
94) Hexachlorobutadiene	13.707	225	32393	35.315	ug/l		99
95) Naphthalene	13.755	128	261541	40.307	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	84101	37.421	ug/l		98

Sample Results: **VX048250.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048250.D
Acq On : 20 Oct 2025 19:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 21 06:16:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

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

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

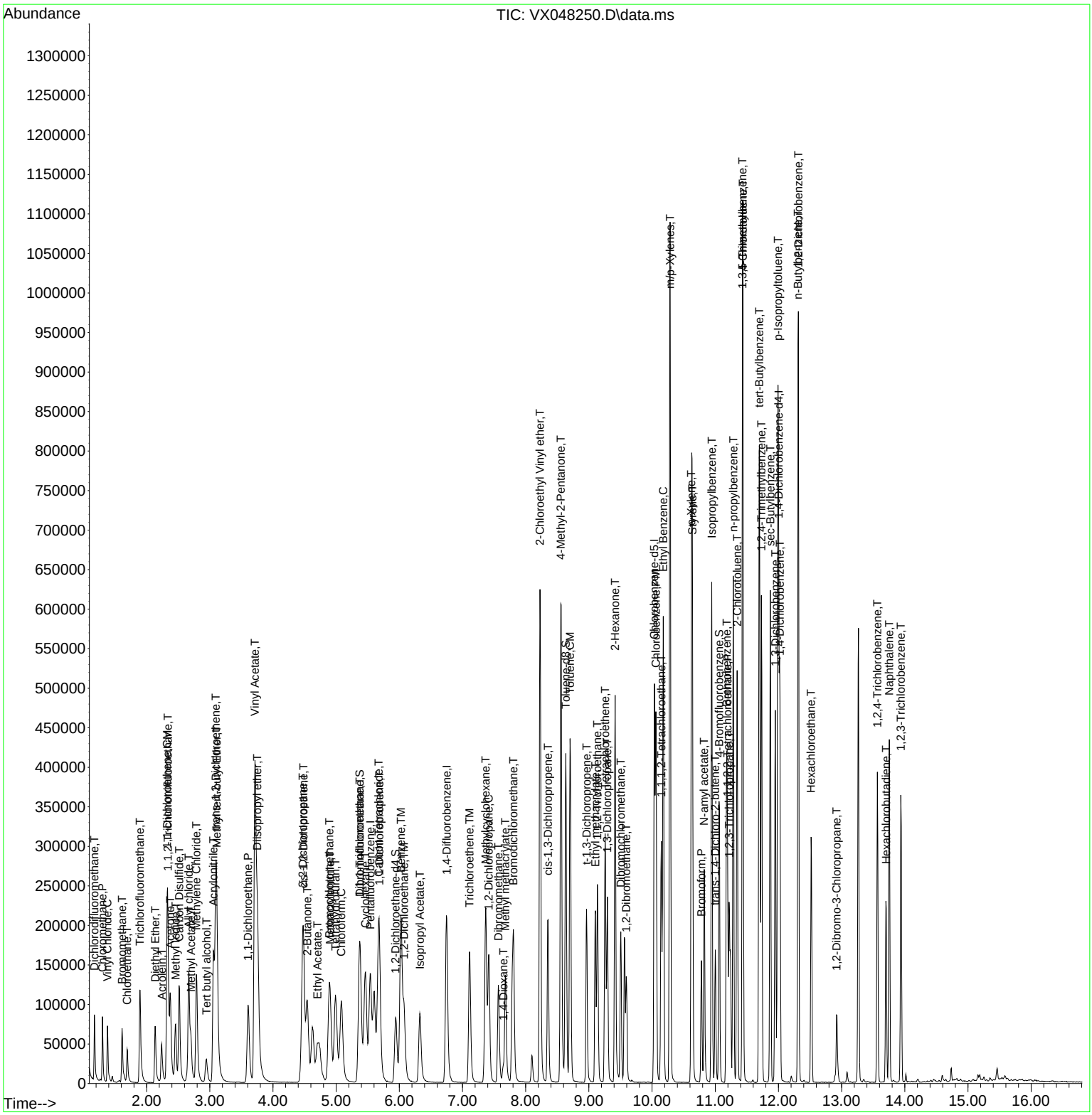
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048250.D
Acq On : 20 Oct 2025 19:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

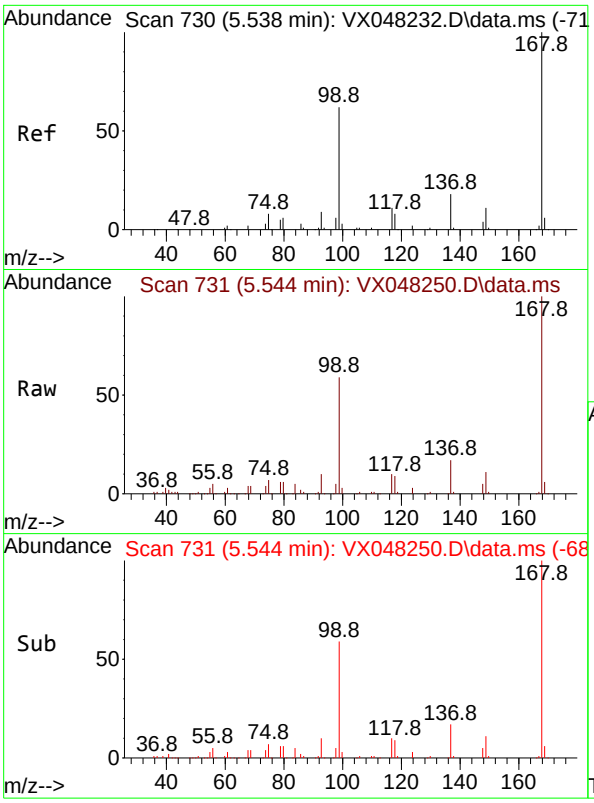
Quant Time: Oct 21 06:16:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

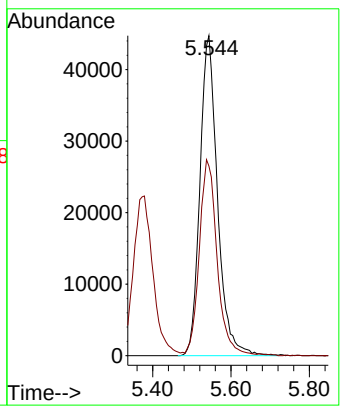




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:168 Resp: 13960

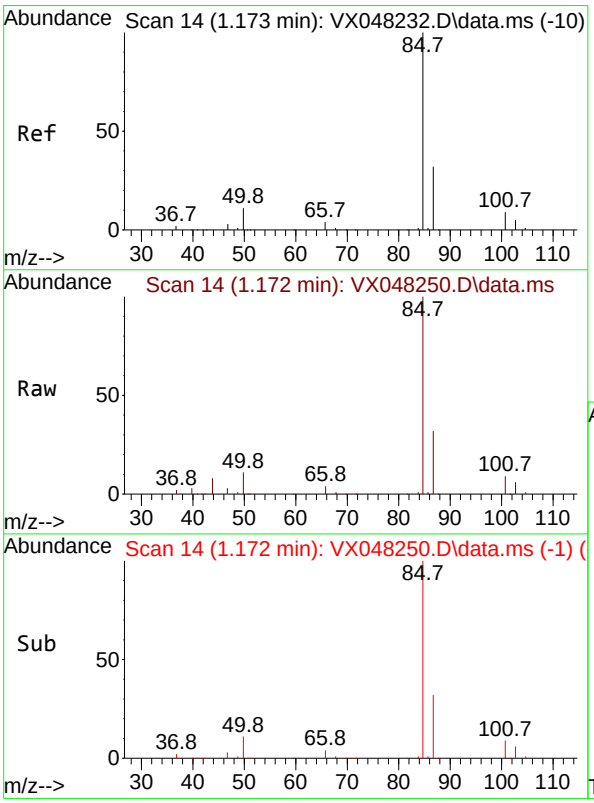
Ion	Ratio	Lower	Upper
168	100		
99	59.3	46.4	69.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

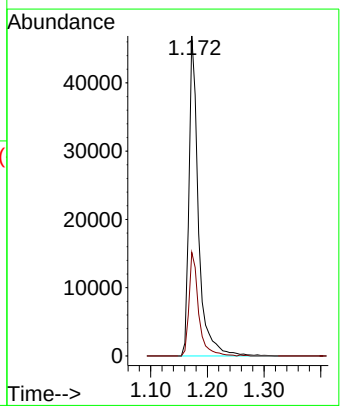
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

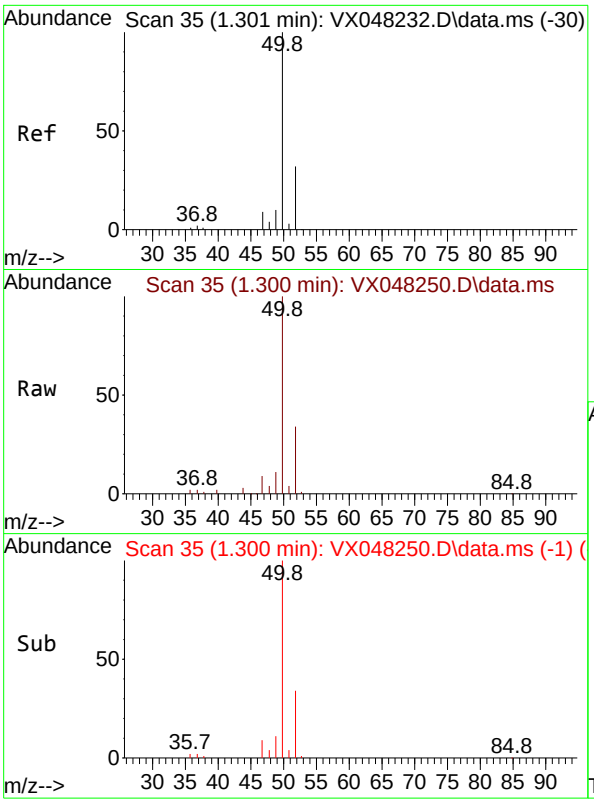


#2
Dichlorodifluoromethane
Concen: 37.949 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 85 Resp: 54463

Ion	Ratio	Lower	Upper
85	100		
87	32.4	15.3	45.9





#3
Chloromethane
Concen: 39.799 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

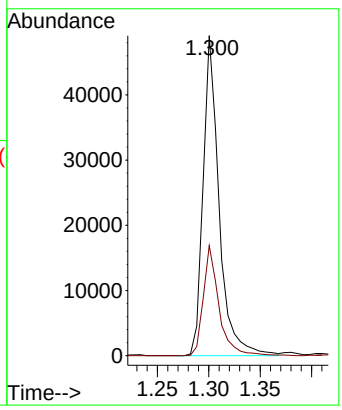
Tgt Ion: 50 Resp: 5331

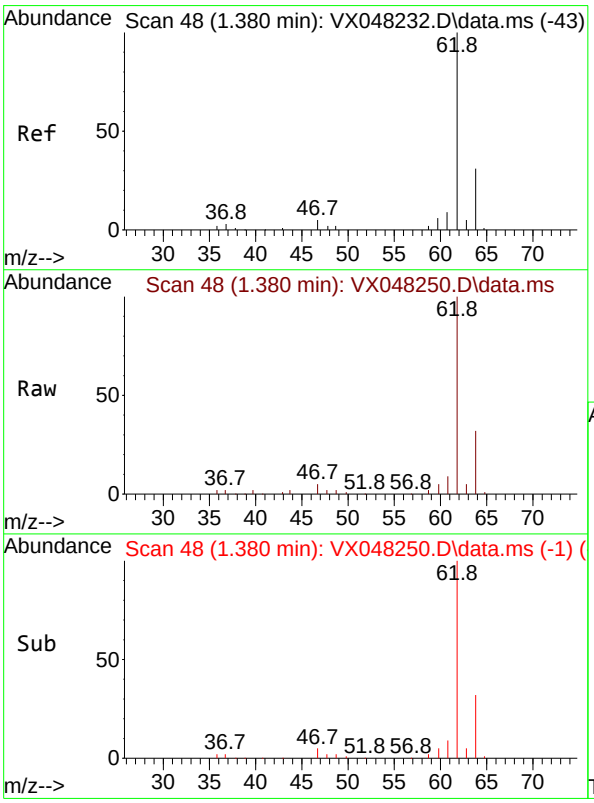
Ion	Ratio	Lower	Upper
50	100		
52	34.4	25.9	38.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

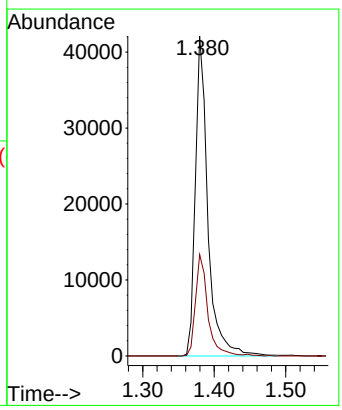


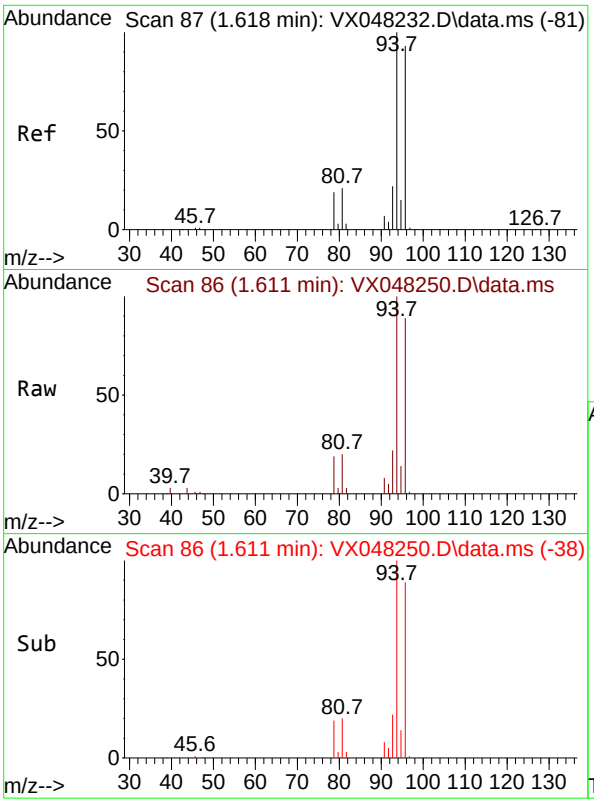


#4
Vinyl Chloride
Concen: 41.136 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 62 Resp: 51029

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.1	37.7





#5
Bromomethane
Concen: 42.601 ug/l
RT: 1.611 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

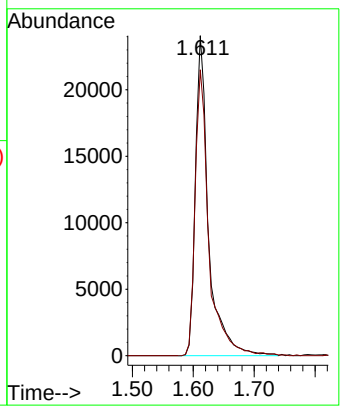
Tgt Ion: 94 Resp: 3586

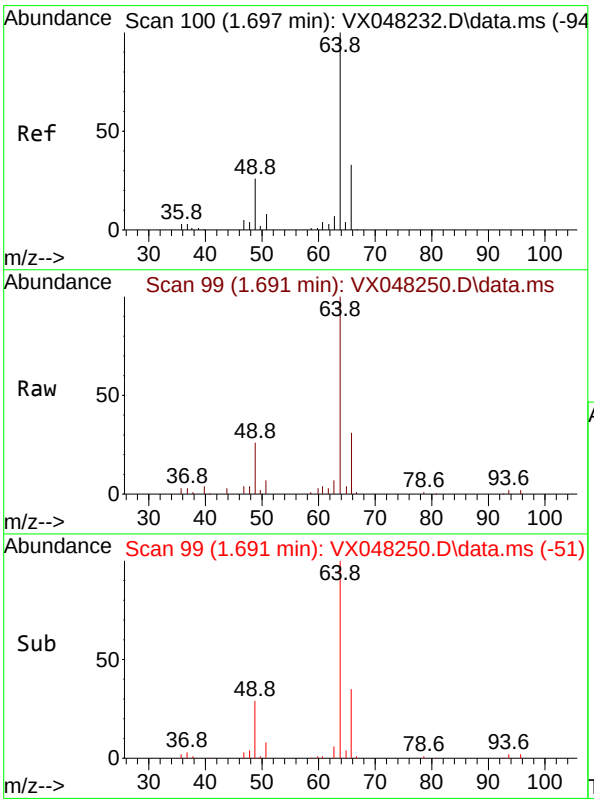
Ion	Ratio	Lower	Upper
94	100		
96	89.3	76.0	114.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

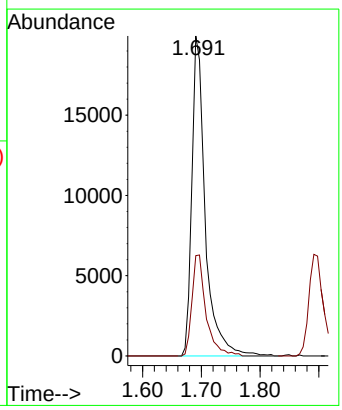


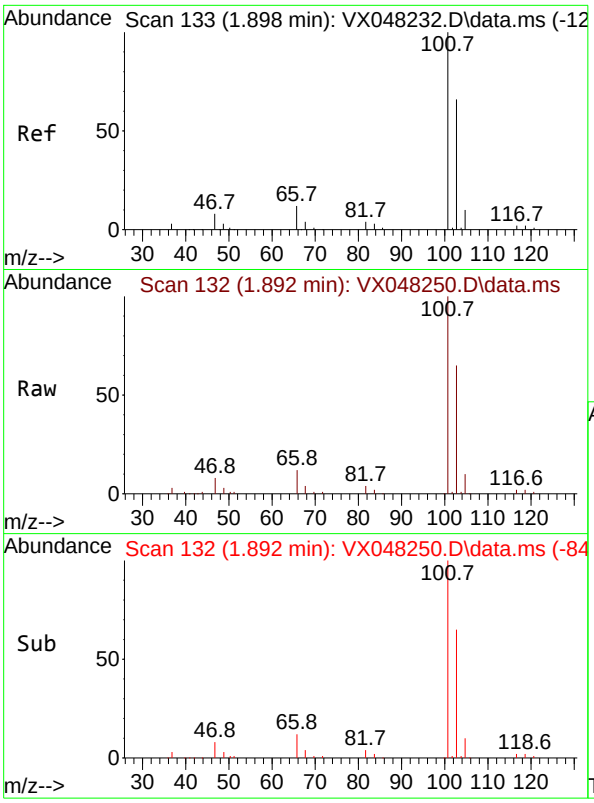


#6
Chloroethane
Concen: 43.378 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 64 Resp: 31620

Ion	Ratio	Lower	Upper
64	100		
66	31.3	23.9	35.9





#7
Trichlorofluoromethane
Concen: 40.982 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

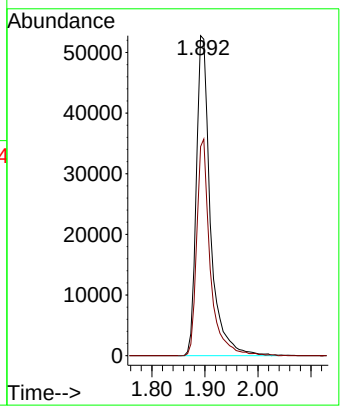
Tgt Ion:101 Resp: 9750

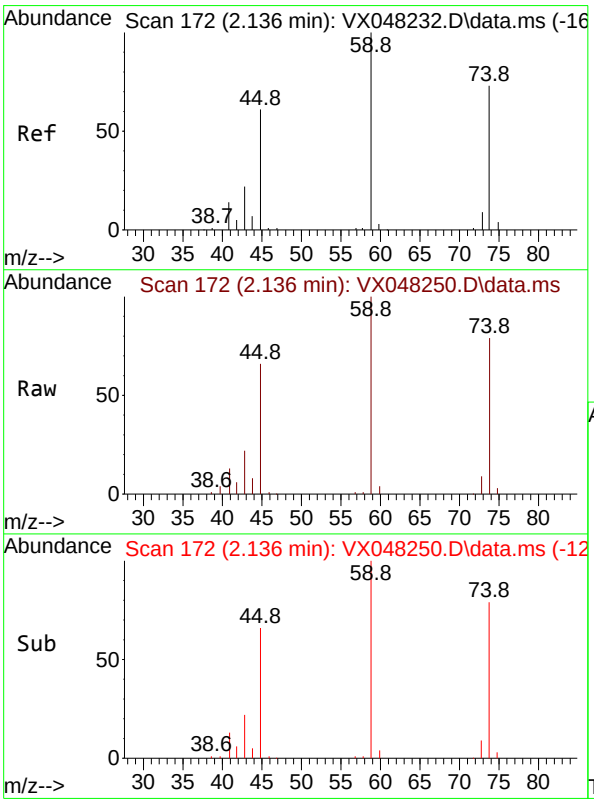
Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.6	77.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

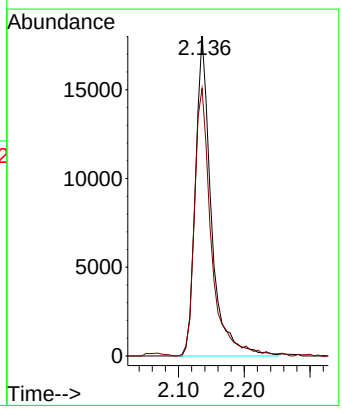


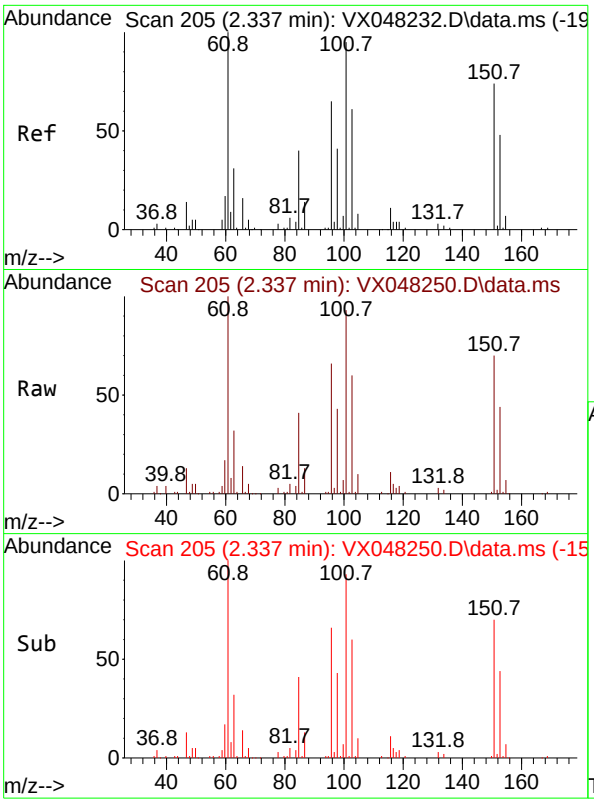


#8
Diethyl Ether
Concen: 44.968 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 74 Resp: 30102

Ion	Ratio	Lower	Upper
74	100		
45	88.4	50.0	149.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 40.443 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

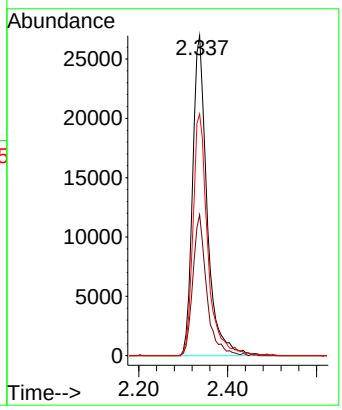
Tgt Ion:101 Resp: 6092

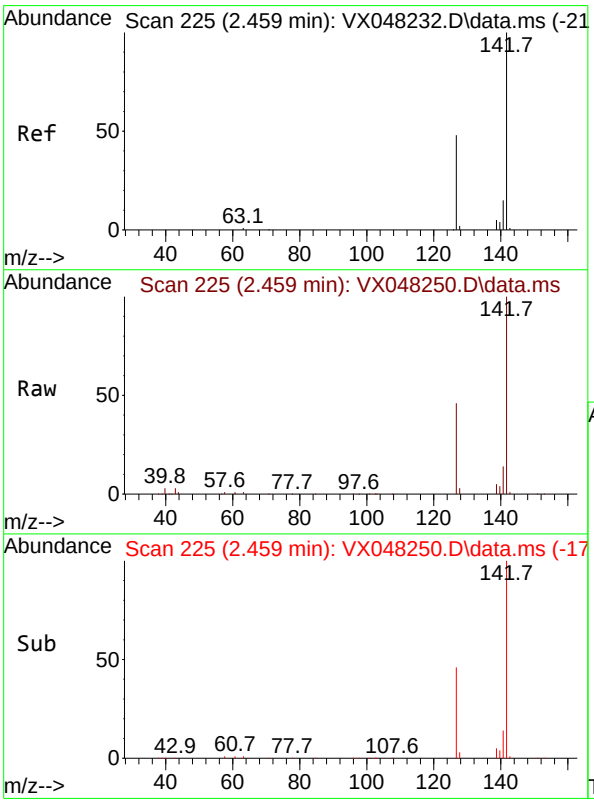
Ion	Ratio	Lower	Upper
101	100		
85	42.4	35.6	53.4
151	77.2	58.0	87.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

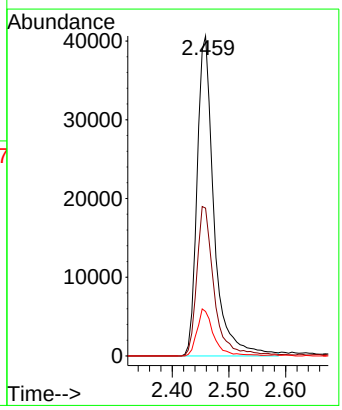


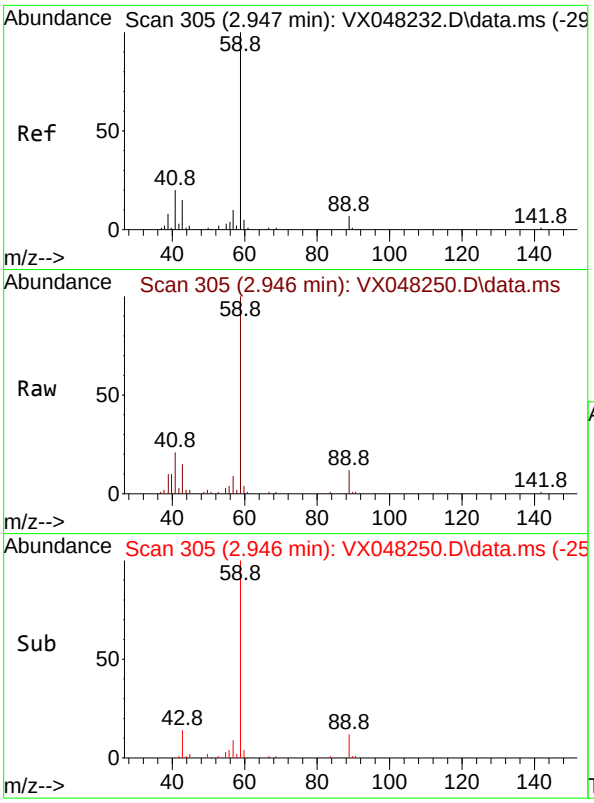


#10
Methyl Iodide
Concen: 44.441 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:142 Resp: 84168

Ion	Ratio	Lower	Upper
142	100		
127	48.3	38.5	57.7
141	14.5	11.6	17.4





#11
Tert butyl alcohol
Concen: 195.385 ug/l
RT: 2.946 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

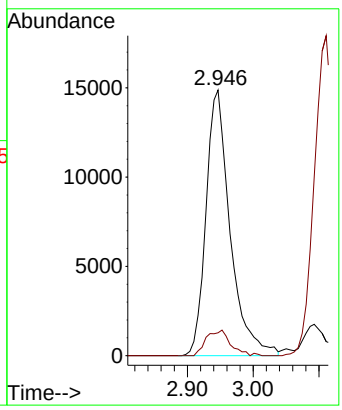
Tgt Ion: 59 Resp: 3797

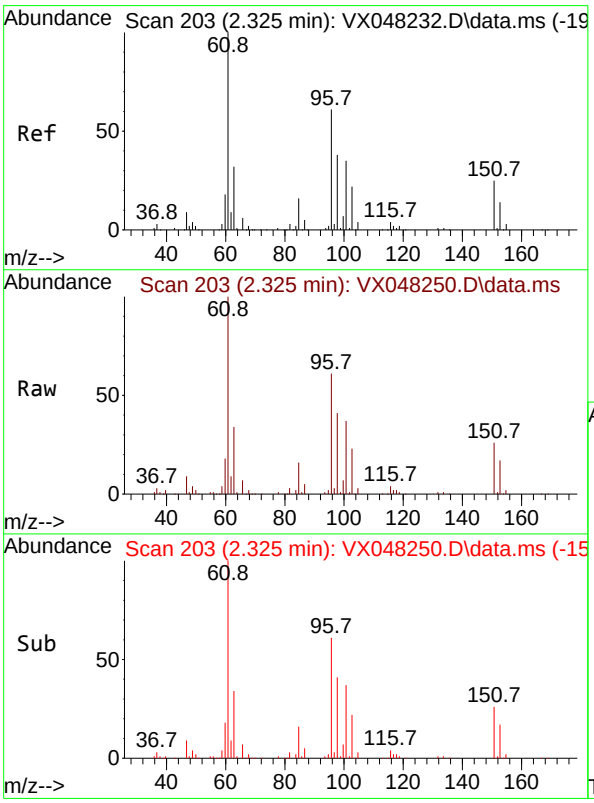
Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.2	12.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

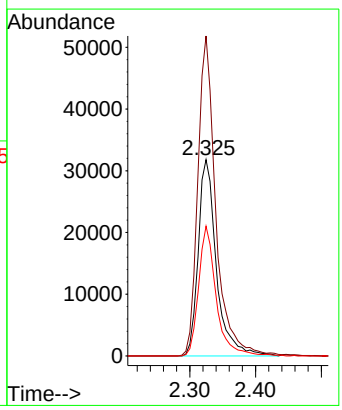


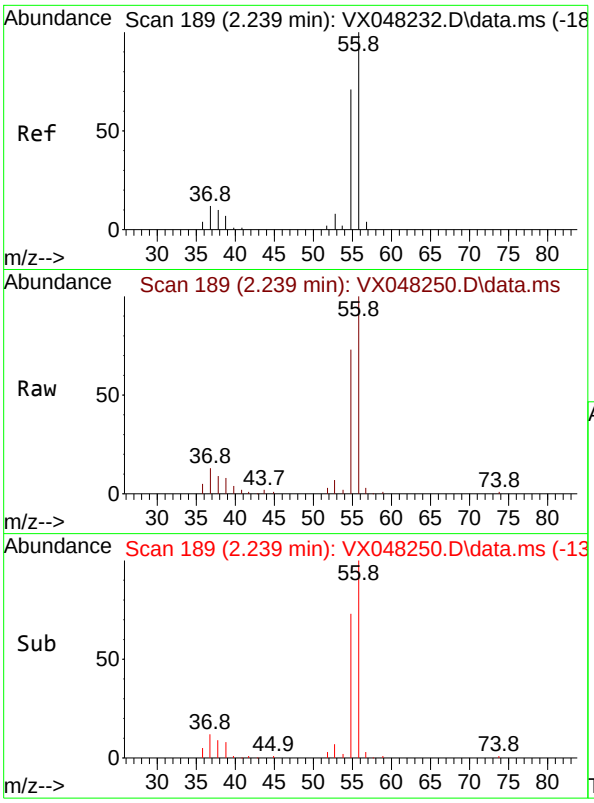


#12
1,1-Dichloroethene
Concen: 41.727 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 96 Resp: 61159

Ion	Ratio	Lower	Upper
96	100		
61	163.0	139.0	208.6
98	66.1	52.4	78.6

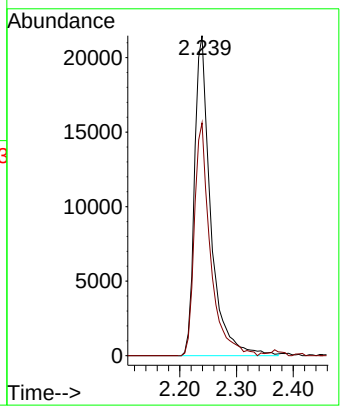




#13
Acrolein
Concen: 214.491 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 56 Resp: 4251

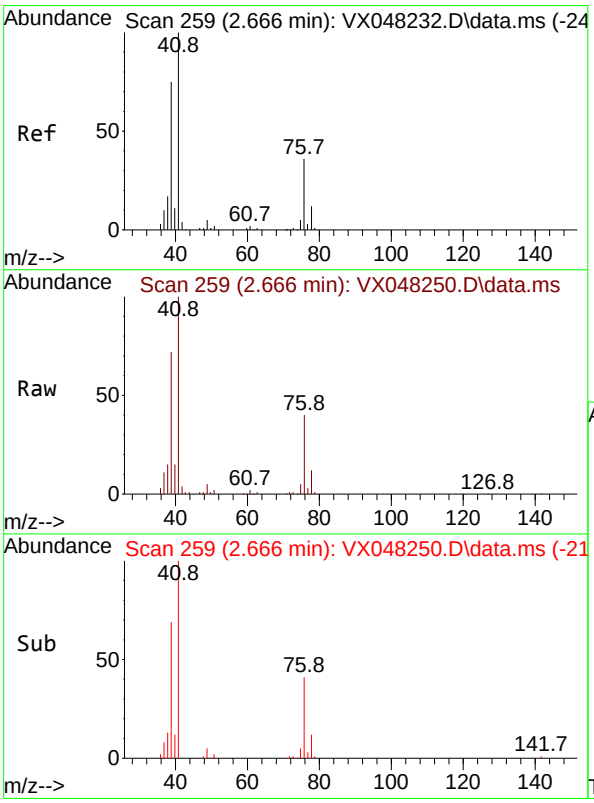
Ion	Ratio	Lower	Upper
56	100		
55	71.9	56.1	84.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

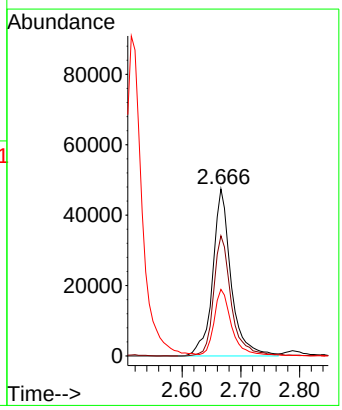
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

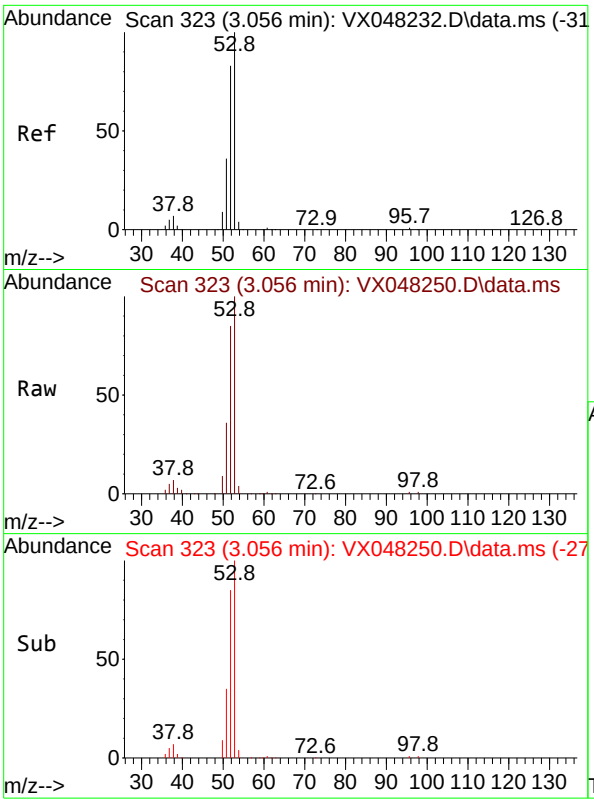


#14
Allyl chloride
Concen: 42.467 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 41 Resp: 103340

Ion	Ratio	Lower	Upper
41	100		
39	69.3	56.0	84.0
76	38.5	27.5	41.3





#15
Acrylonitrile
Concen: 223.753 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

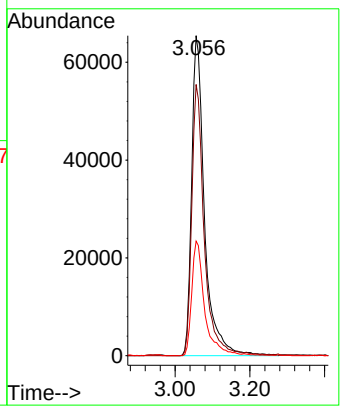
Tgt Ion: 53 Resp: 15680

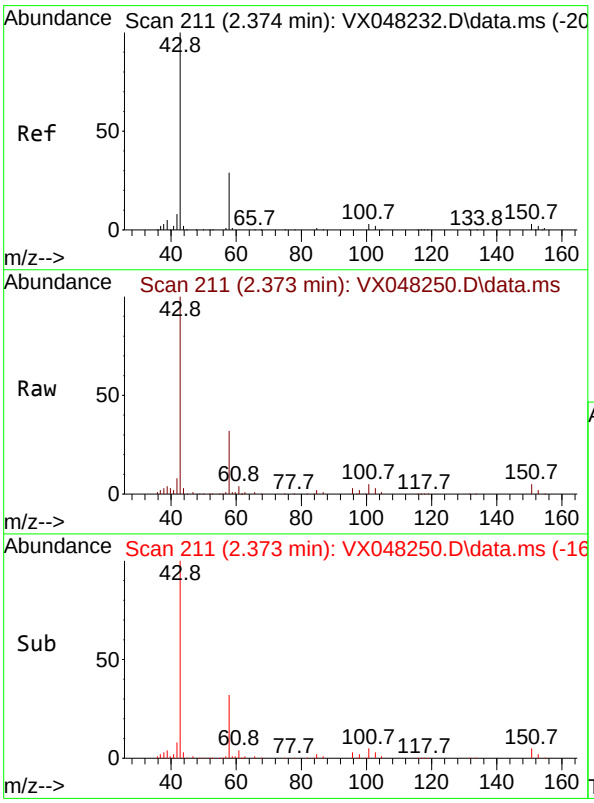
Ion	Ratio	Lower	Upper
53	100		
52	81.5	66.1	99.1
51	35.7	29.0	43.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

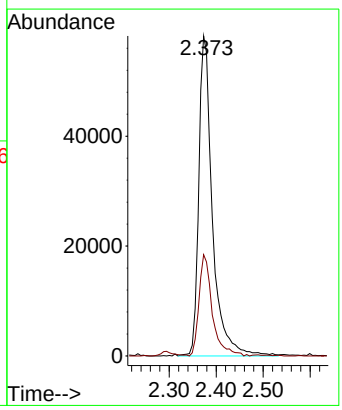


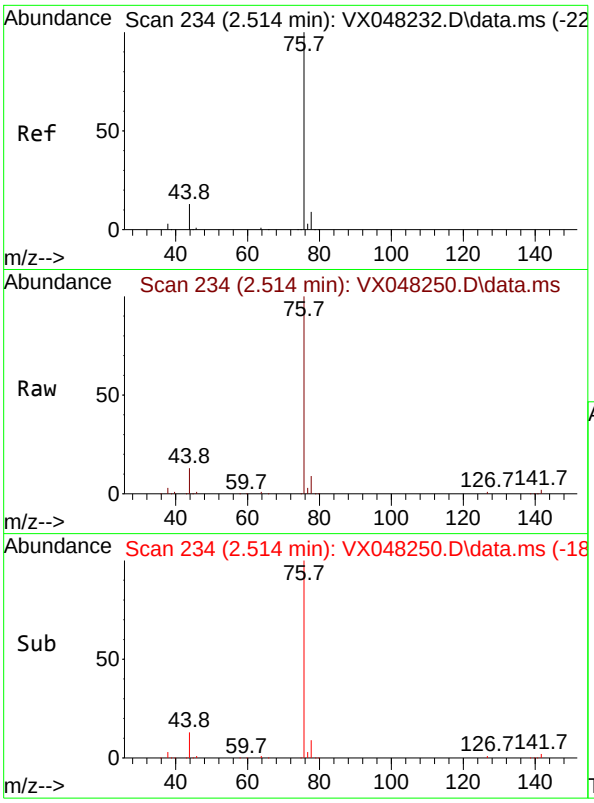


#16
Acetone
Concen: 175.130 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 43 Resp: 117599

Ion	Ratio	Lower	Upper
43	100		
58	31.5	23.4	35.2

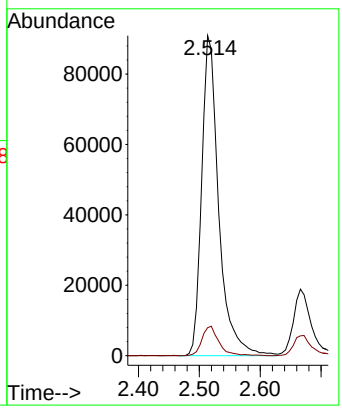




#17
Carbon Disulfide
Concen: 38.329 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 76 Resp: 17705

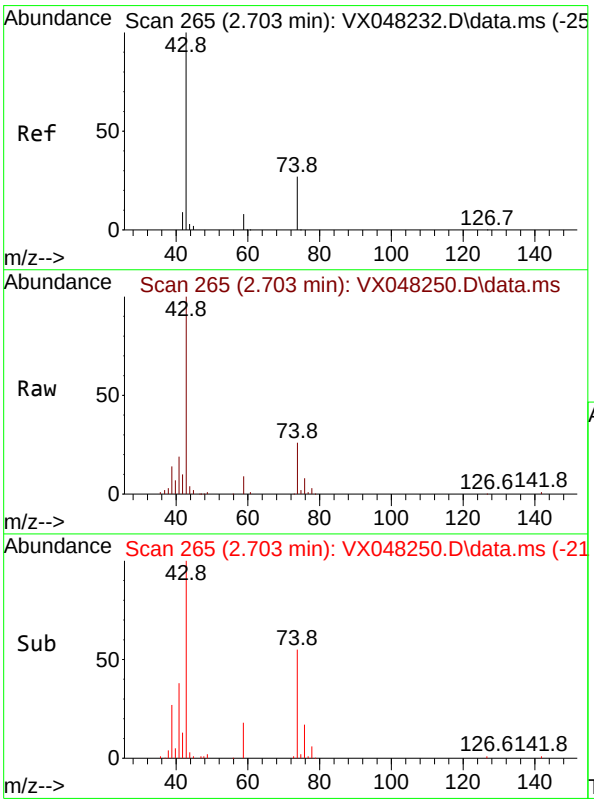
Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.1	10.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

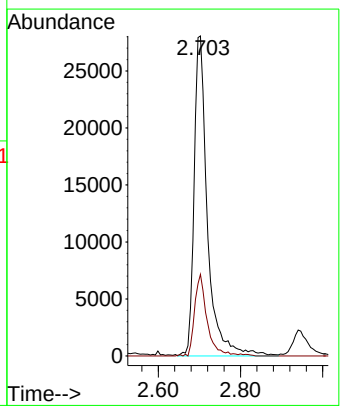
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

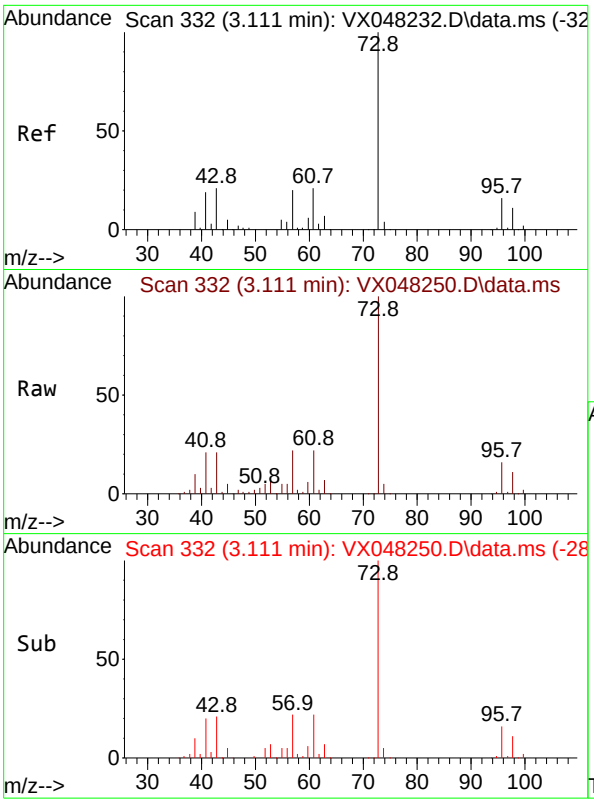


#18
Methyl Acetate
Concen: 45.112 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 43 Resp: 63263

Ion	Ratio	Lower	Upper
43	100		
74	23.6	17.5	26.3





#19
Methyl tert-butyl Ether
Concen: 44.595 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

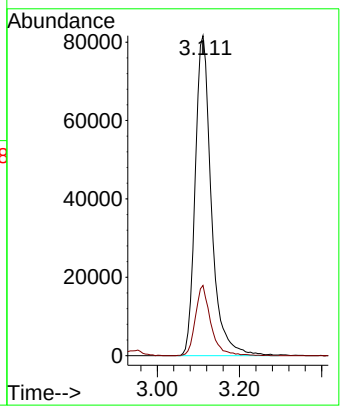
Tgt Ion: 73 Resp: 22298

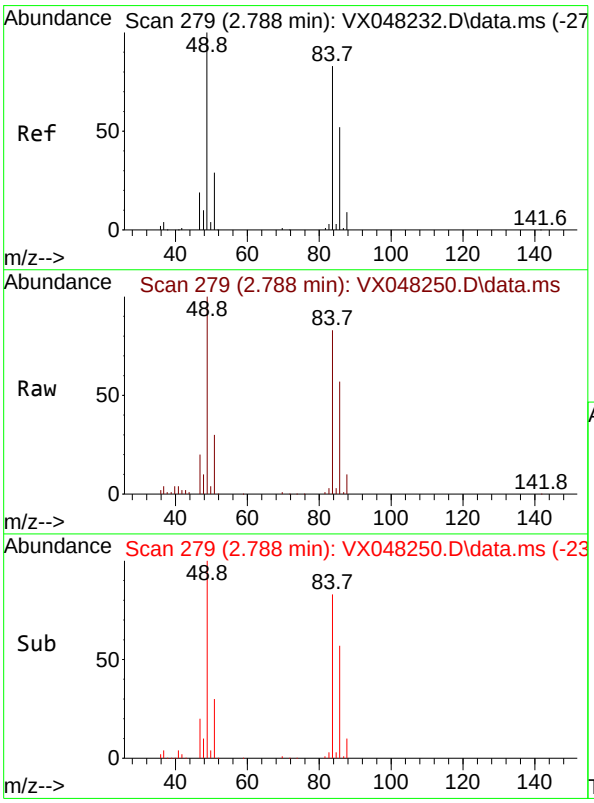
Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.7	26.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

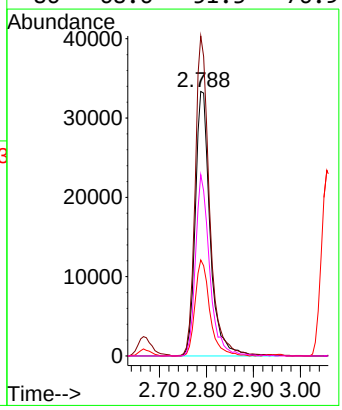


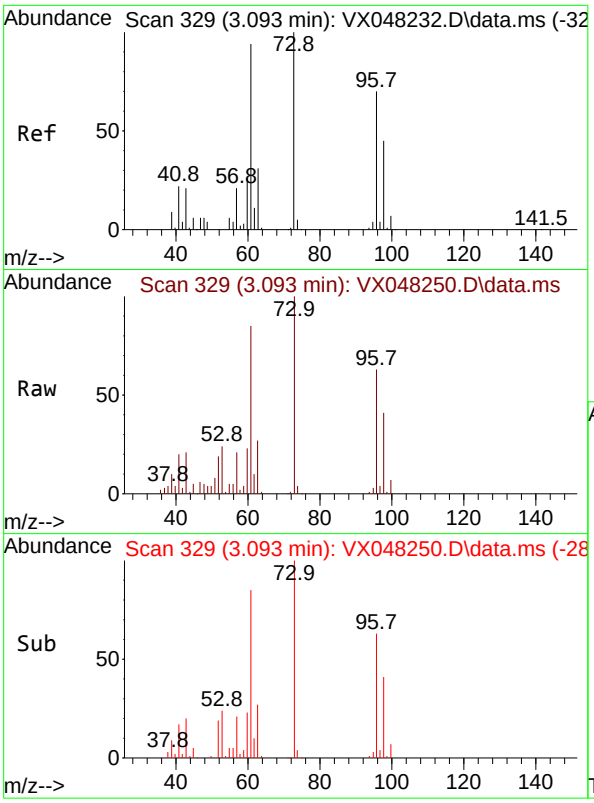


#20
Methylene Chloride
Concen: 44.720 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 84 Resp: 73170

Ion	Ratio	Lower	Upper
84	100		
49	120.8	104.1	156.1
51	36.3	31.3	46.9
86	68.6	51.3	76.9





#21
trans-1,2-Dichloroethene
Concen: 43.228 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

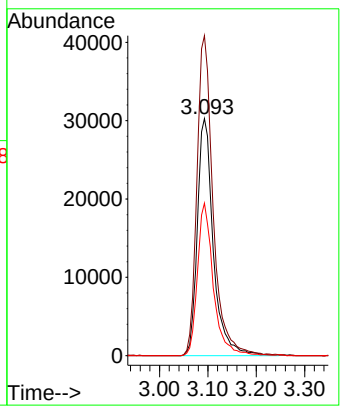
Tgt Ion: 96 Resp: 6959

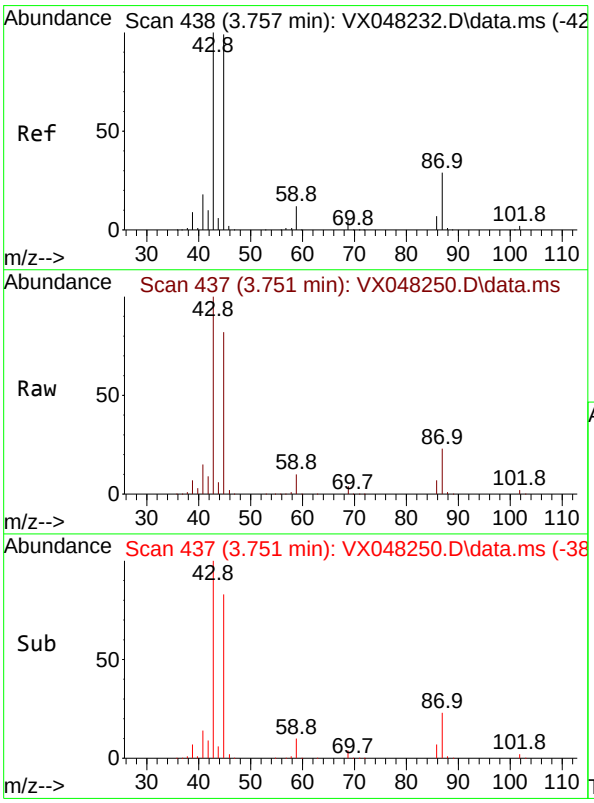
Ion	Ratio	Lower	Upper
96	100		
61	134.9	111.9	167.9
98	66.2	51.2	76.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

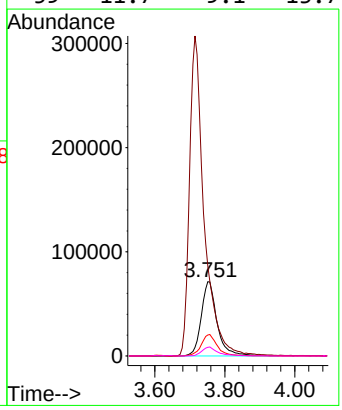


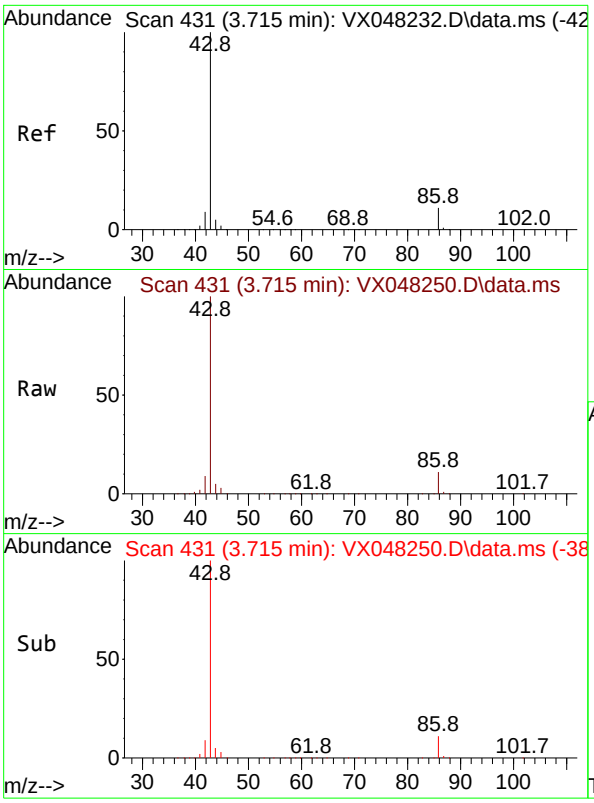


#22
Diisopropyl ether
Concen: 45.952 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 45 Resp: 223032

Ion	Ratio	Lower	Upper
45	100		
43	120.6	89.8	134.8
87	28.4	20.6	31.0
59	11.7	9.1	13.7





#23
Vinyl Acetate
Concen: 231.296 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

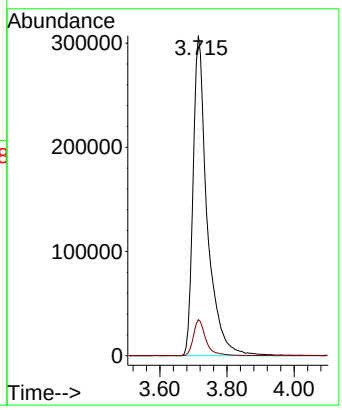
Tgt Ion: 43 Resp: 89674

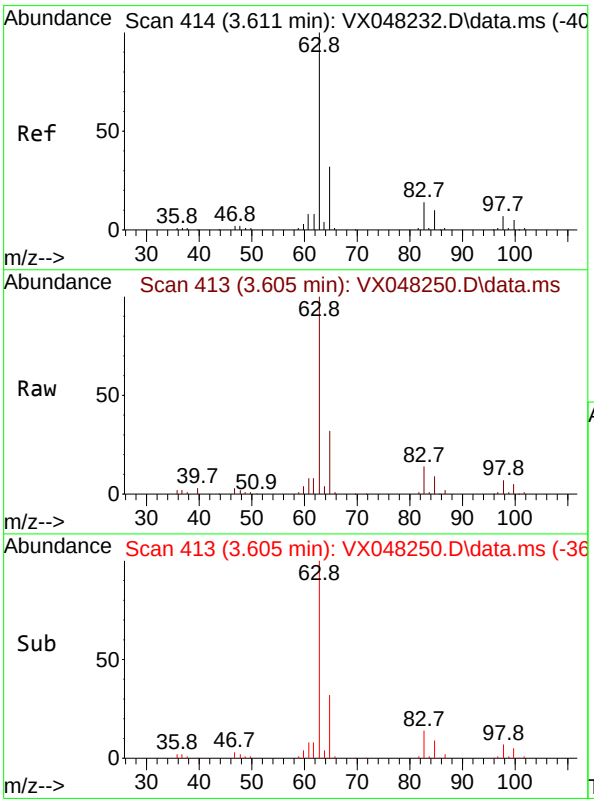
Ion	Ratio	Lower	Upper
43	100		
86	11.3	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

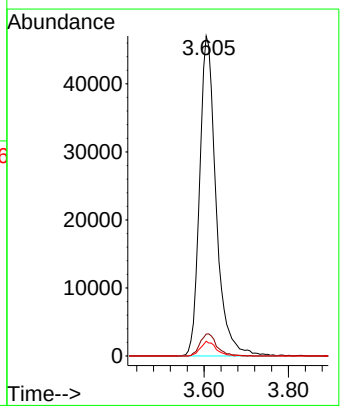


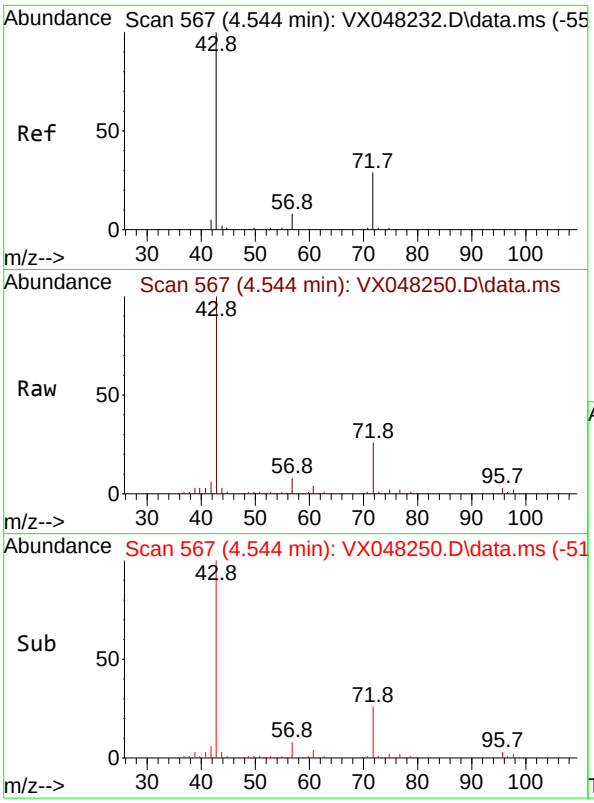


#24
1,1-Dichloroethane
Concen: 43.578 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 63 Resp: 127890

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.5	10.6
100	4.6	2.1	6.3

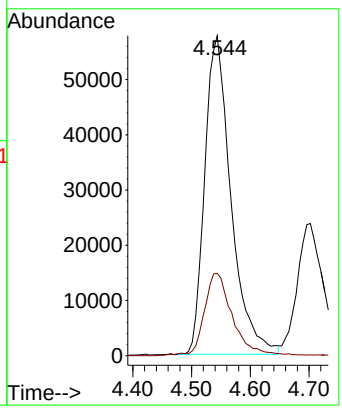




#25
2-Butanone
Concen: 210.709 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 43 Resp: 17909

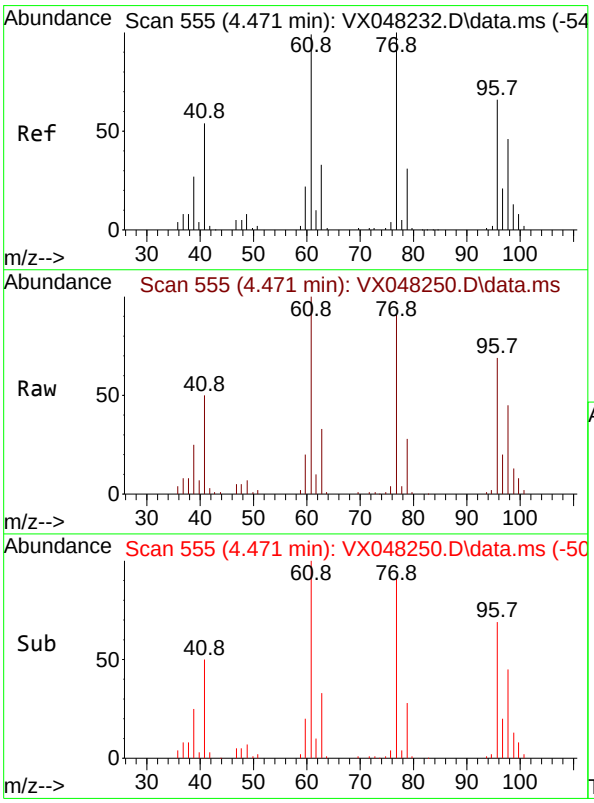
Ion	Ratio	Lower	Upper
43	100		
72	25.3	19.9	29.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

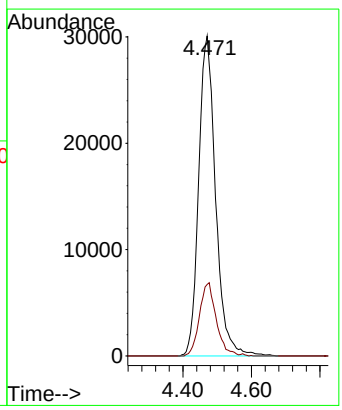
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

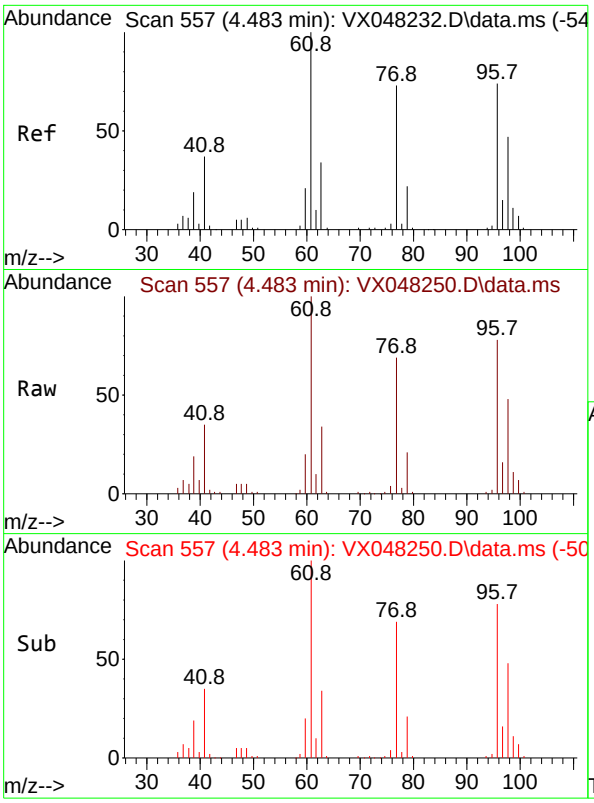


#26
2,2-Dichloropropane
Concen: 39.096 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 77 Resp: 103563

Ion	Ratio	Lower	Upper
77	100		
97	22.6	11.1	33.3

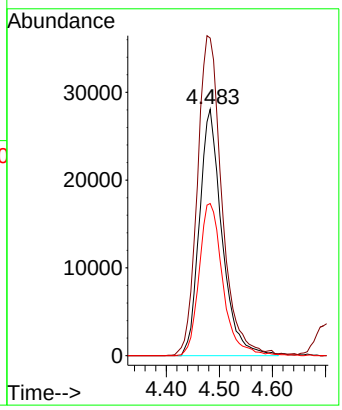




#27
cis-1,2-Dichloroethene
Concen: 44.159 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 96 Resp: 8297

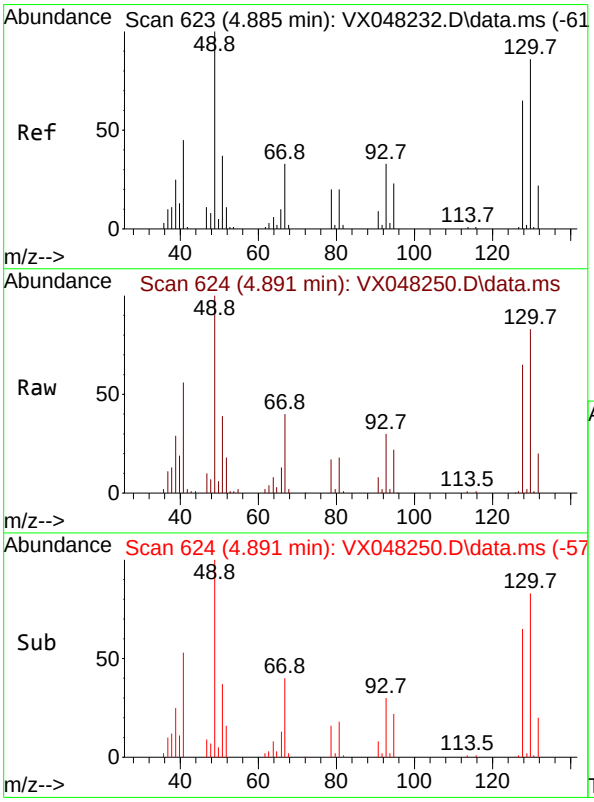
Ion	Ratio	Lower	Upper
96	100		
61	141.6	0.0	294.2
98	65.0	0.0	128.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

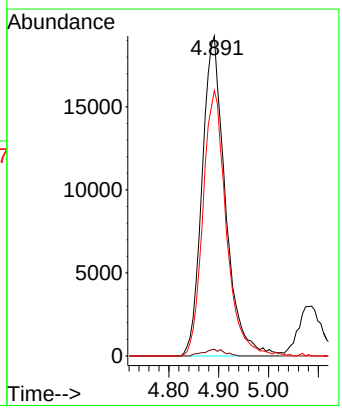
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

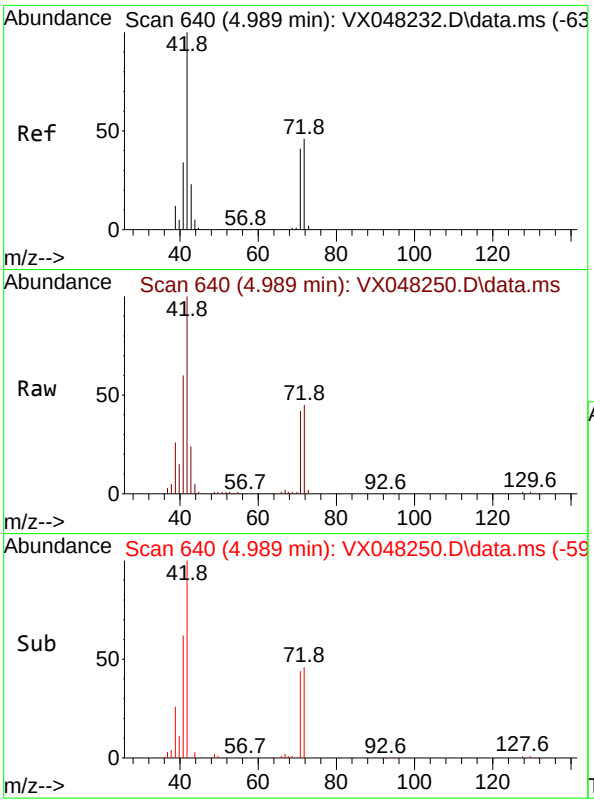


#28
Bromochloromethane
Concen: 51.151 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 49 Resp: 62244

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.4
130	83.0	59.3	88.9





#29
Tetrahydrofuran
Concen: 224.351 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

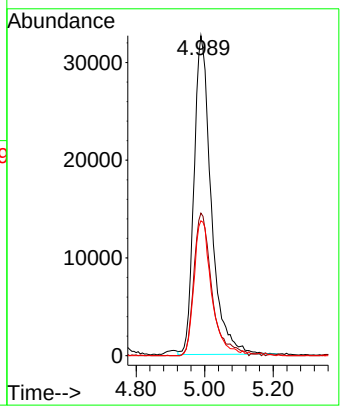
Tgt Ion: 42 Resp: 11420

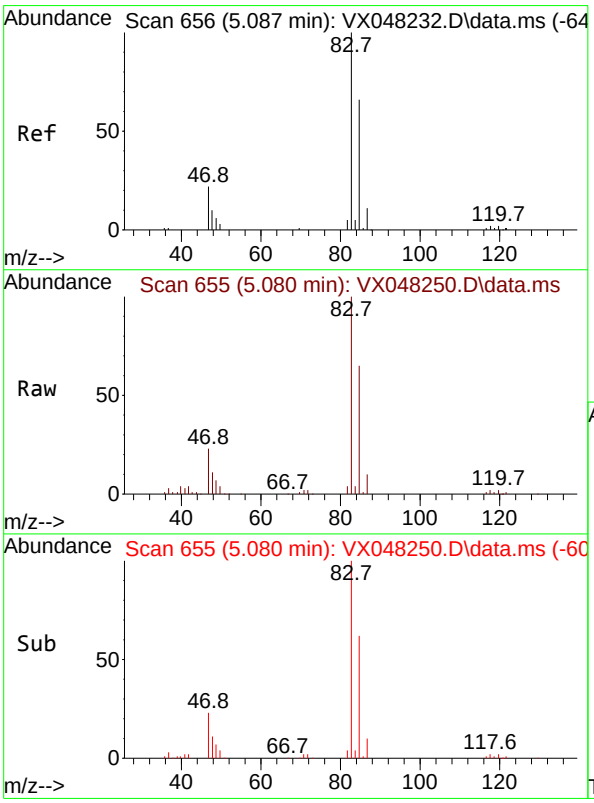
Ion	Ratio	Lower	Upper
42	100		
72	46.7	35.3	52.9
71	43.5	32.2	48.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

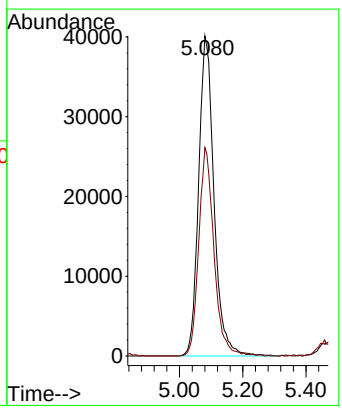


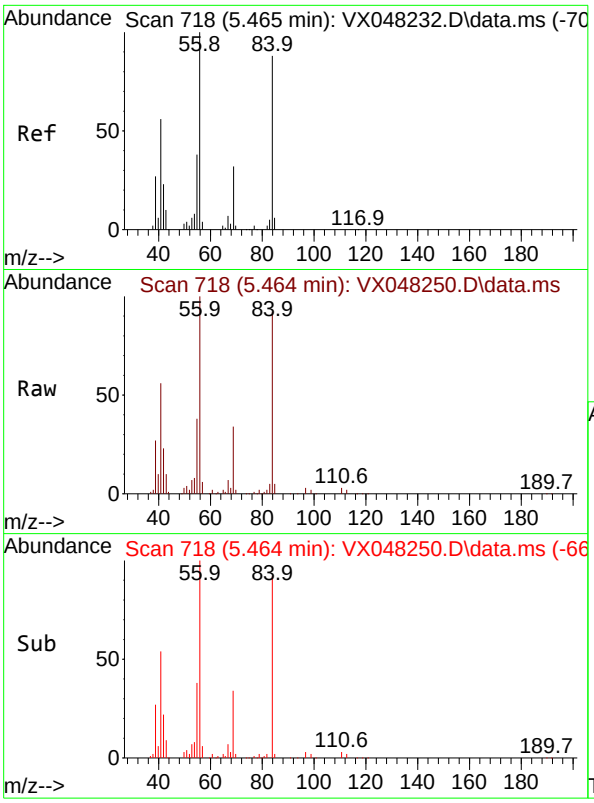


#30
Chloroform
Concen: 43.198 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 83 Resp: 135447

Ion	Ratio	Lower	Upper
83	100		
85	65.1	50.1	75.1

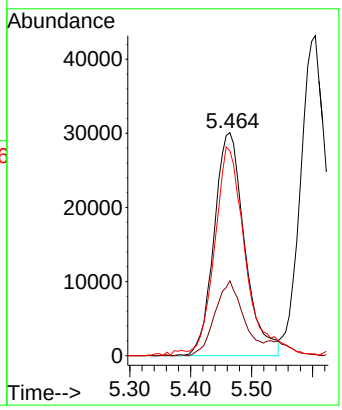




#31
Cyclohexane
Concen: 43.114 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 56 Resp: 10475

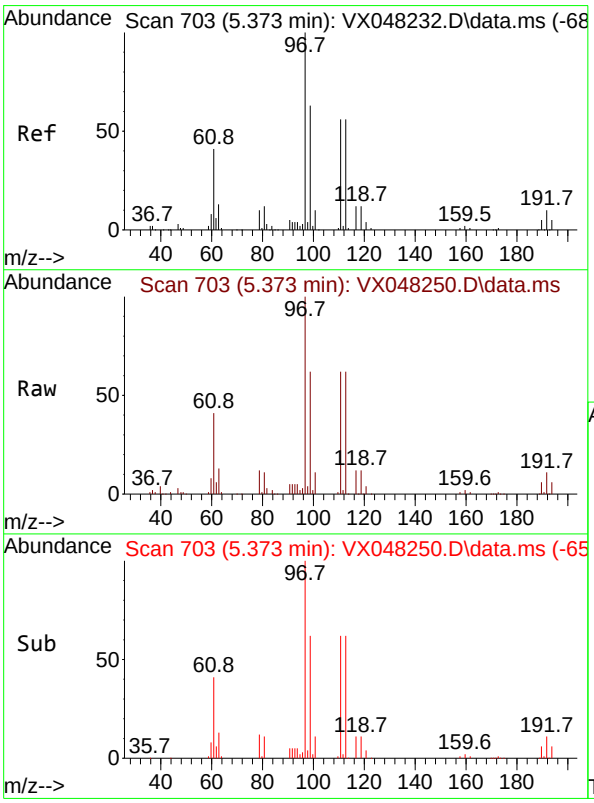
Ion	Ratio	Lower	Upper
56	100		
69	33.1	23.0	34.6
84	89.5	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

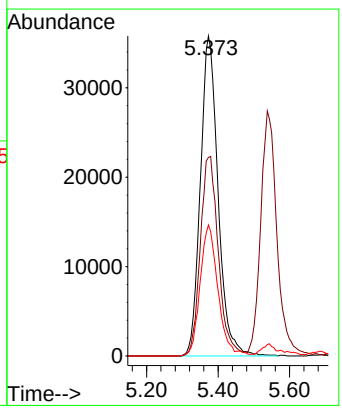
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

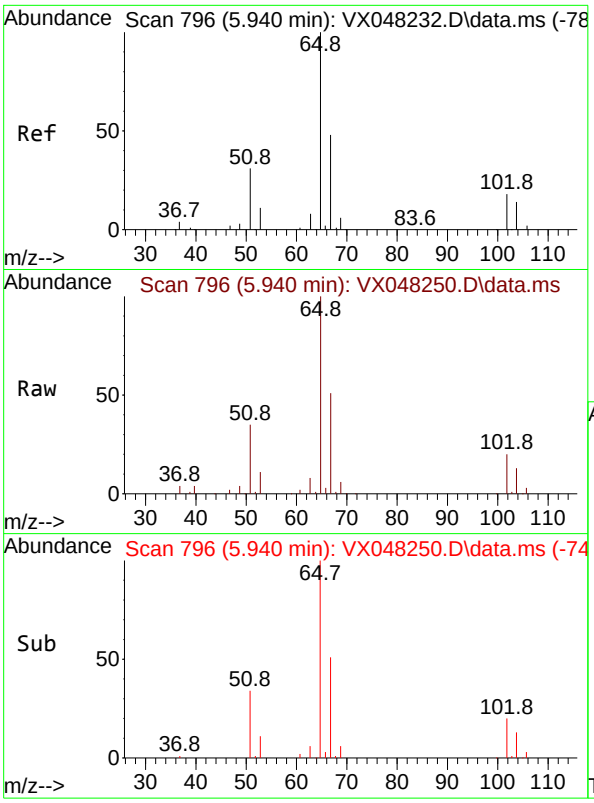


#32
1,1,1-Trichloroethane
Concen: 42.592 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 97 Resp: 123078

Ion	Ratio	Lower	Upper
97	100		
99	63.3	51.7	77.5
61	41.2	34.8	52.2

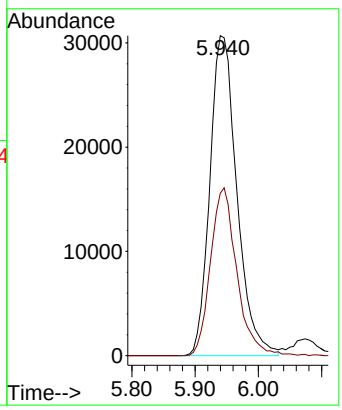




#33
1,2-Dichloroethane-d4
Concen: 46.542 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 65 Resp: 9110

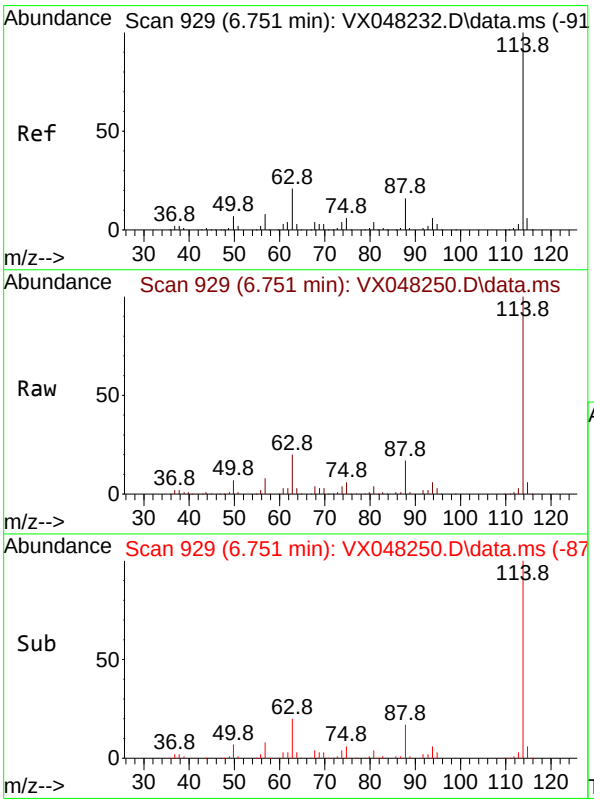
Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	105.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

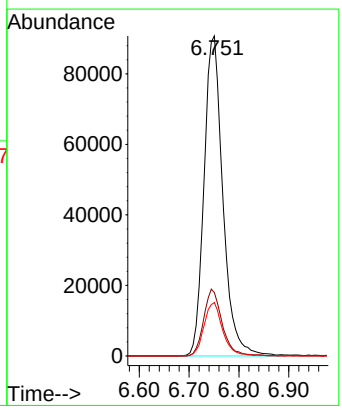
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

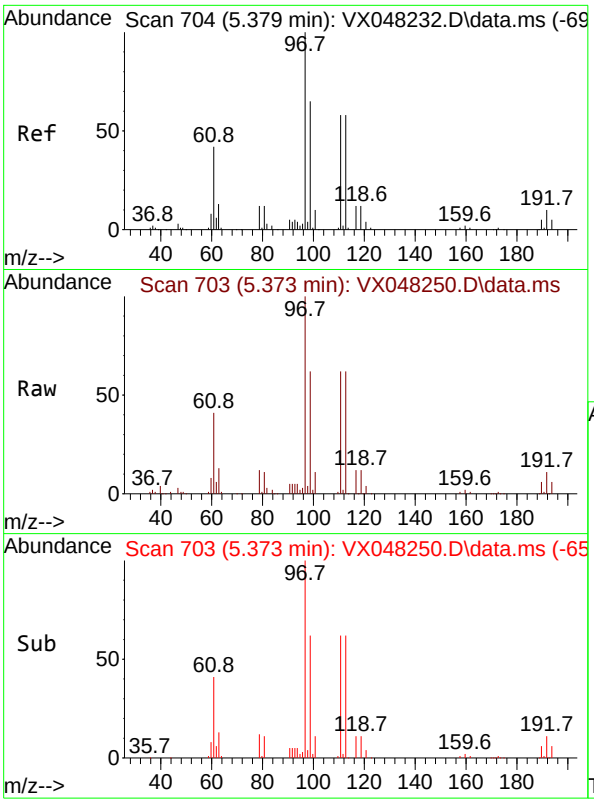


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:114 Resp: 238004

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	43.2
88	16.7	0.0	33.6

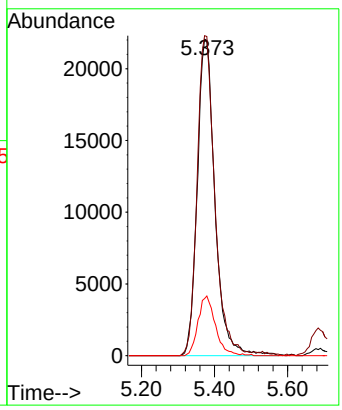




#35
Dibromofluoromethane
Concen: 45.636 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:113 Resp: 7415

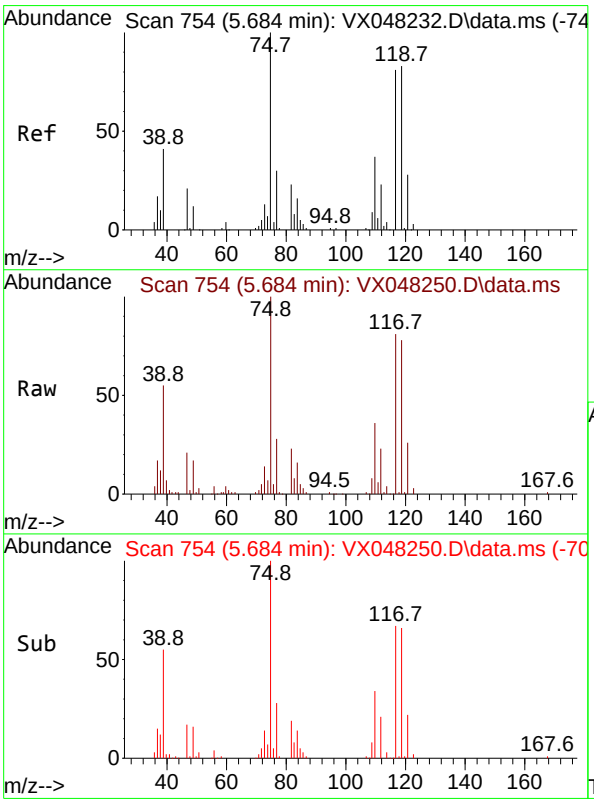
Ion	Ratio	Lower	Upper
113	100		
111	100.9	82.2	123.4
192	18.5	15.1	22.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

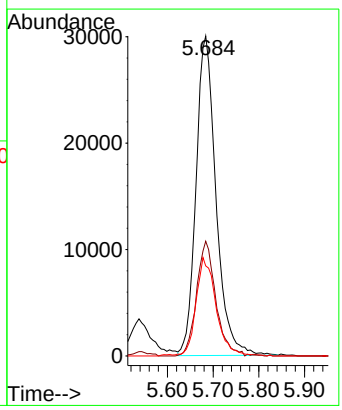
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

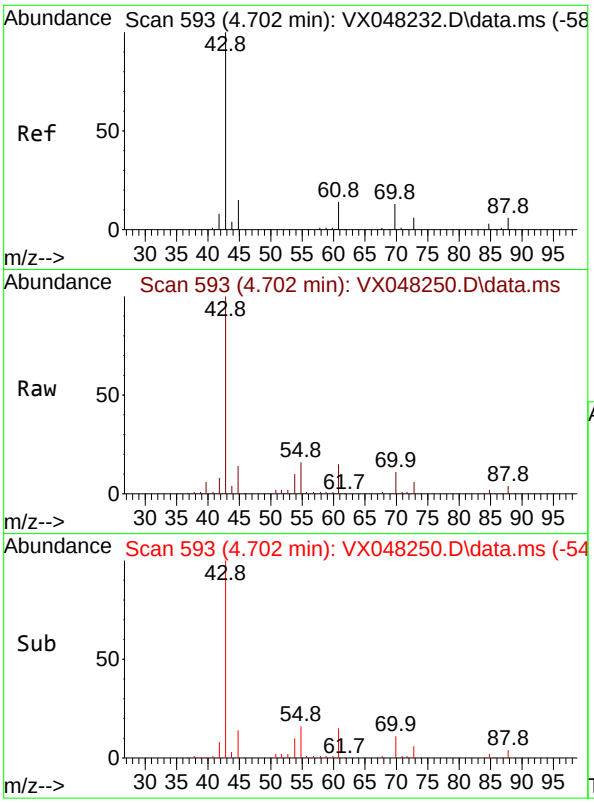


#36
1,1-Dichloropropene
Concen: 39.469 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 75 Resp: 91151

Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.7	53.1
77	29.9	24.3	36.5





#37
Ethyl Acetate
Concen: 40.173 ug/l
RT: 4.702 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

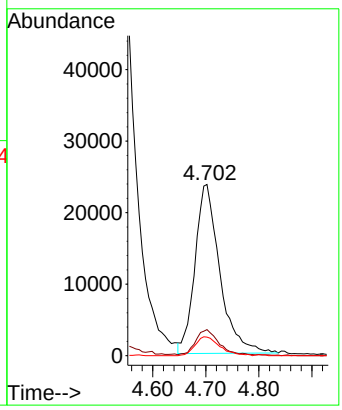
Tgt Ion: 43 Resp: 7690

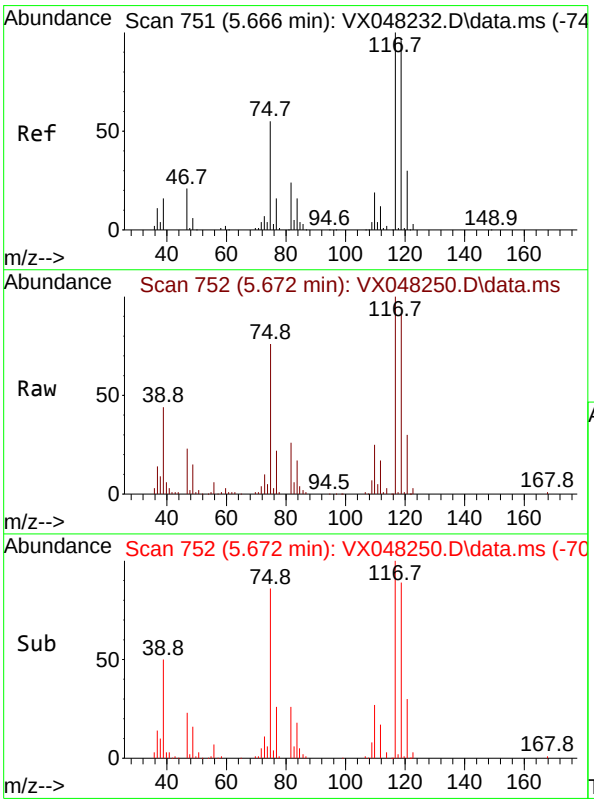
Ion	Ratio	Lower	Upper
43	100		
61	15.2	10.6	15.8
70	11.1	7.8	11.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

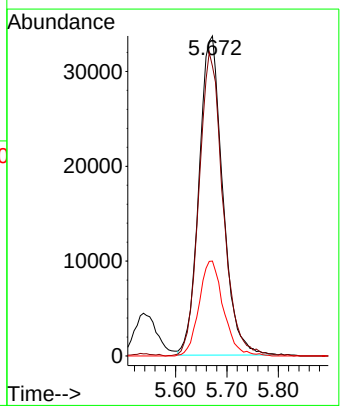


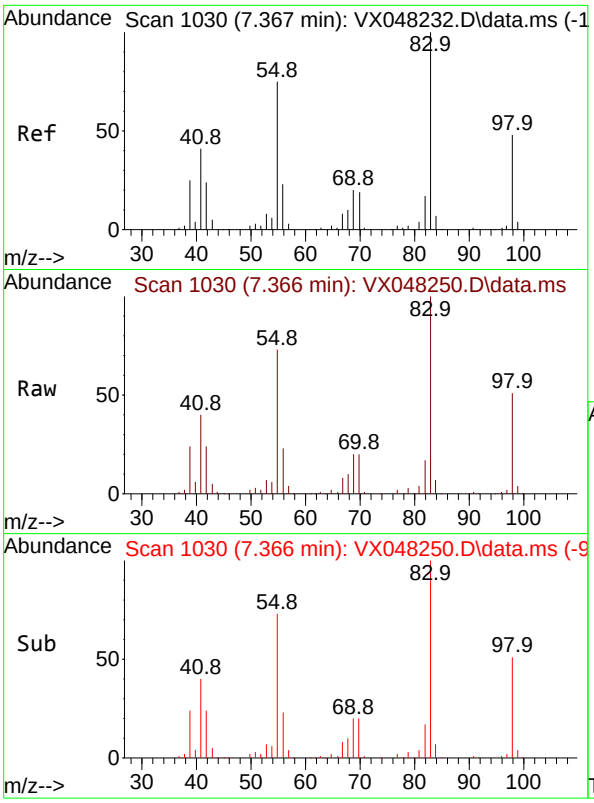


#38
Carbon Tetrachloride
Concen: 37.895 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:117 Resp: 107972

Ion	Ratio	Lower	Upper
117	100		
119	90.5	77.2	115.8
121	29.8	24.8	37.2





#39
Methylcyclohexane
Concen: 39.300 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

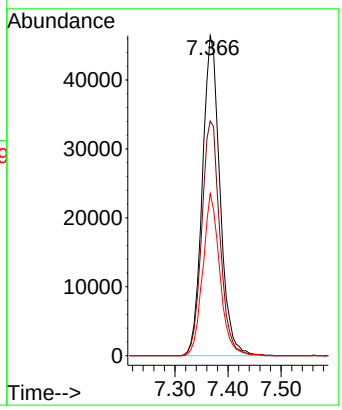
Tgt Ion: 83 Resp: 10718

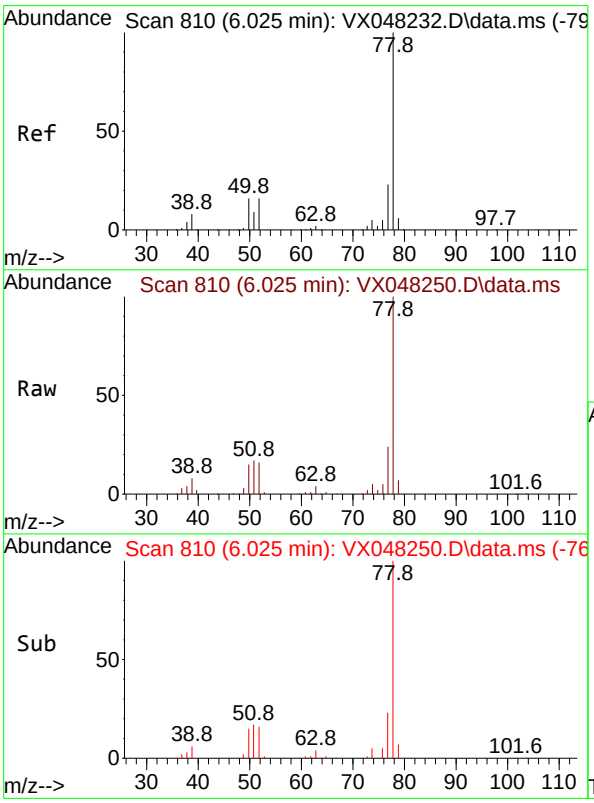
Ion	Ratio	Lower	Upper
83	100		
55	73.3	66.2	99.2
98	50.7	38.9	58.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

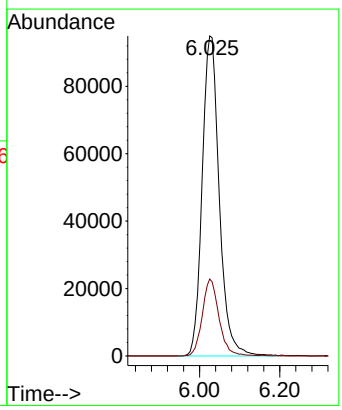


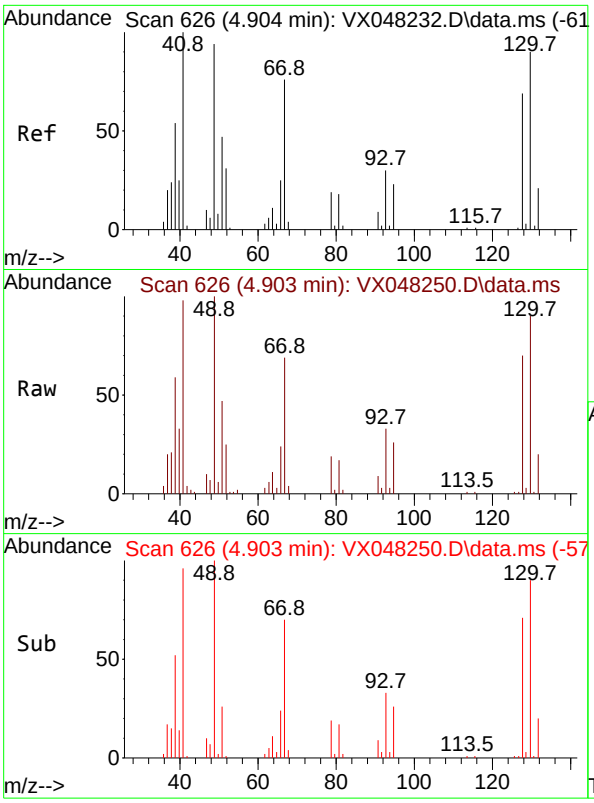


#40
Benzene
Concen: 41.821 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 78 Resp: 280412

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.3	28.9

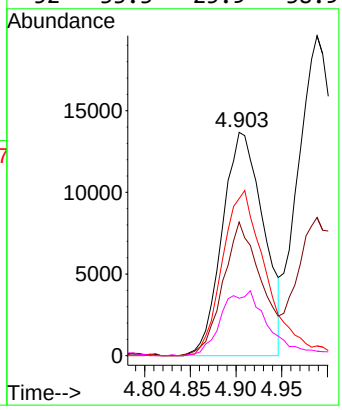




#41
Methacrylonitrile
Concen: 42.726 ug/l
RT: 4.903 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 41 Resp: 4295

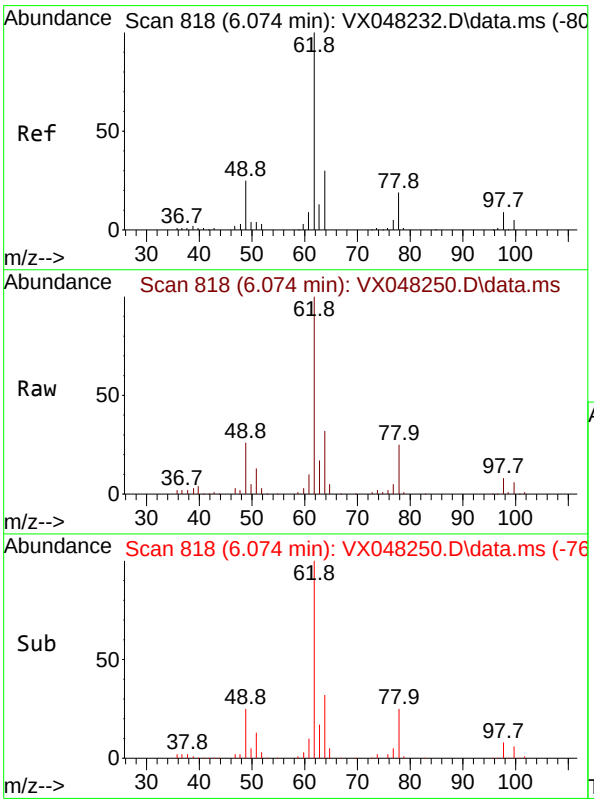
Ion	Ratio	Lower	Upper
41	100		
39	55.3	44.0	66.0
67	80.6	58.7	88.1
52	33.3	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

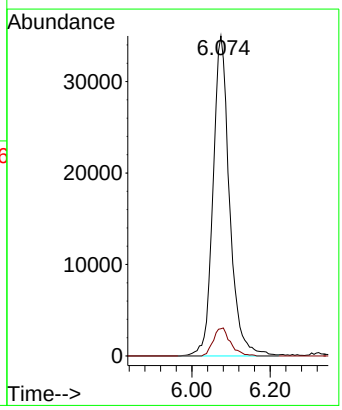
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

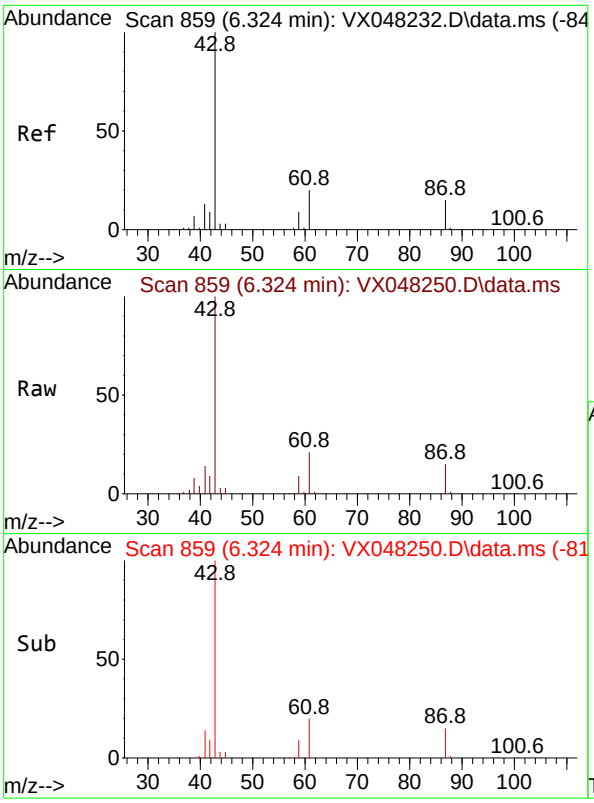


#42
1,2-Dichloroethane
Concen: 41.460 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 62 Resp: 102580

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	17.2





#43
Isopropyl Acetate
Concen: 42.401 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

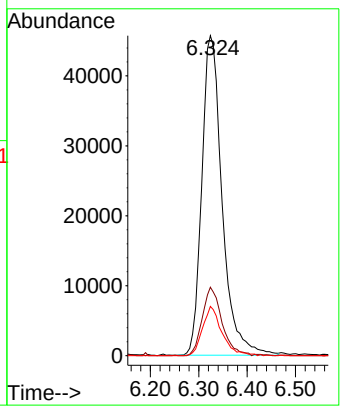
Tgt Ion: 43 Resp: 13332

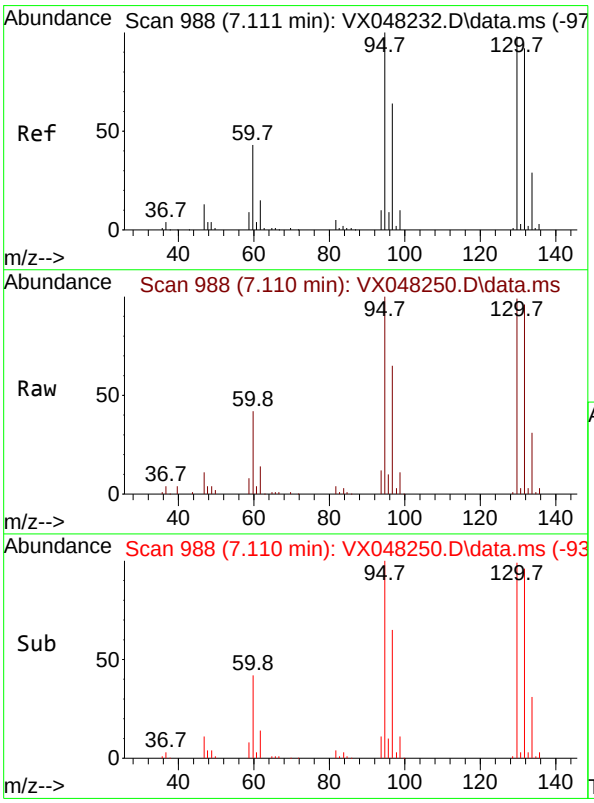
Ion	Ratio	Lower	Upper
43	100		
61	20.7	14.9	22.3
87	14.7	9.4	14.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

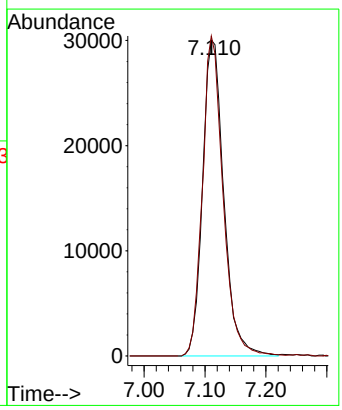


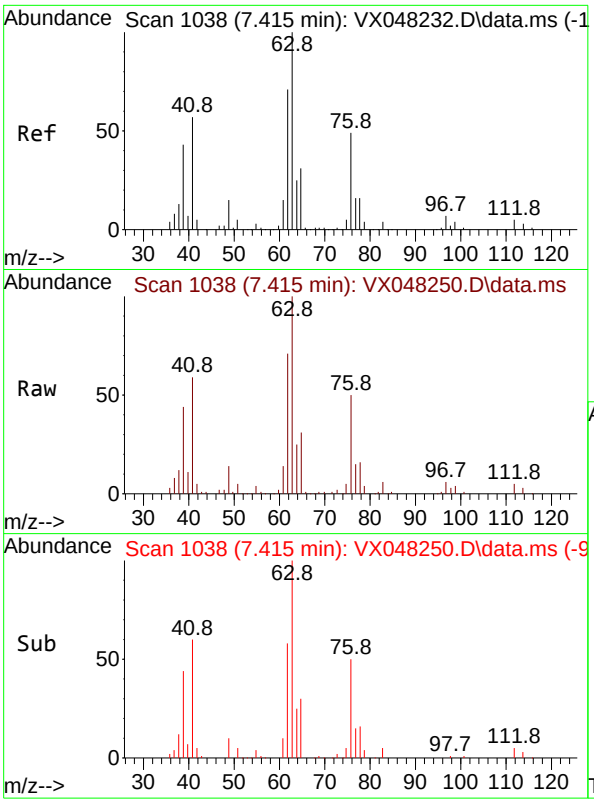


#44
Trichloroethene
Concen: 41.075 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:130 Resp: 72723

Ion	Ratio	Lower	Upper
130	100		
95	110.9	0.0	200.6





#45
1,2-Dichloropropane
Concen: 43.200 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

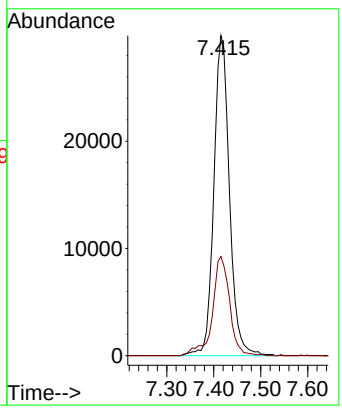
Tgt Ion: 63 Resp: 6886

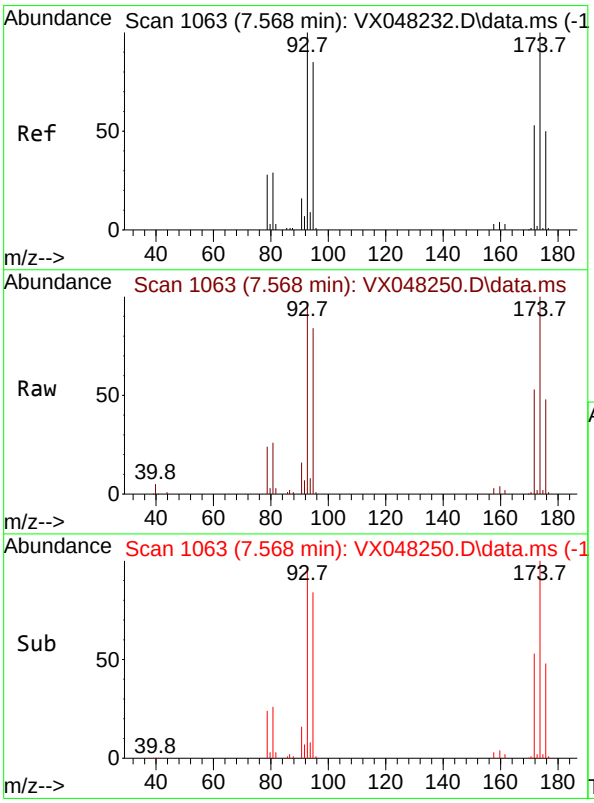
Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.1	36.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

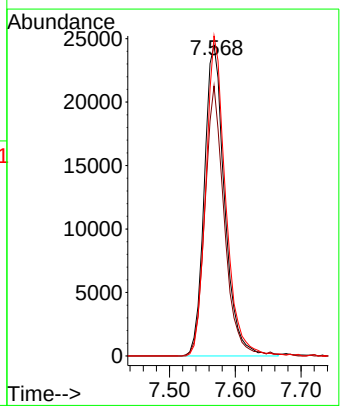


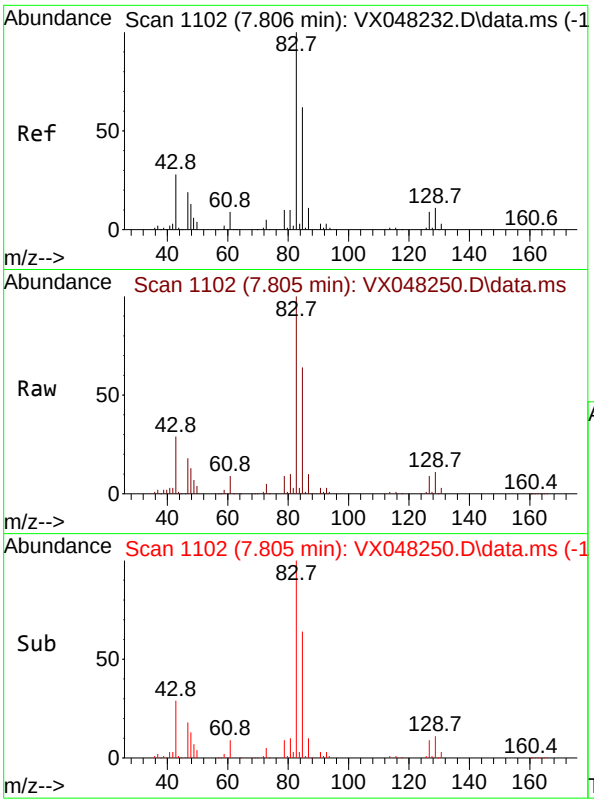


#46
Dibromomethane
Concen: 42.277 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 93 Resp: 52507

Ion	Ratio	Lower	Upper
93	100		
95	82.7	65.9	98.9
174	100.2	71.7	107.5

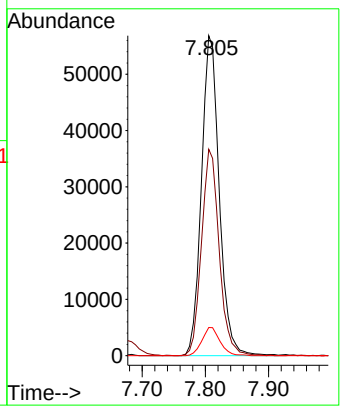




#47
Bromodichloromethane
Concen: 41.521 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 83 Resp: 11134

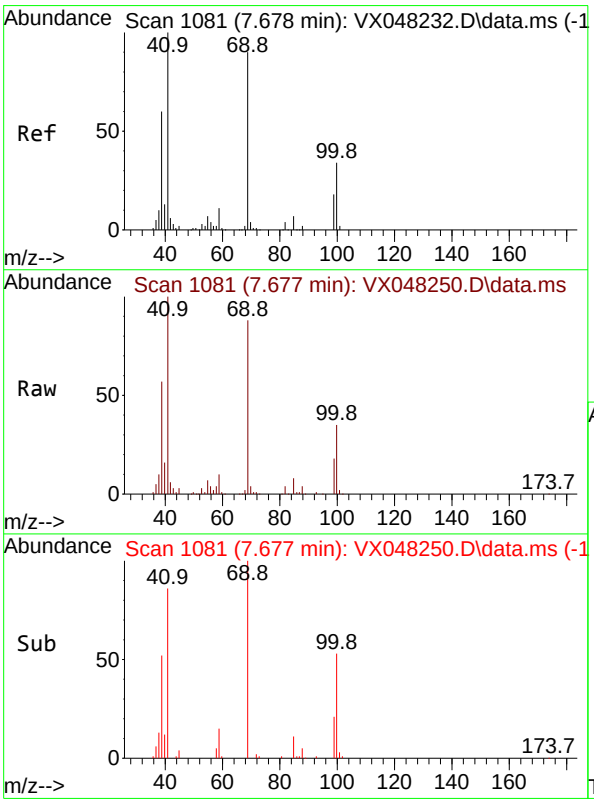
Ion	Ratio	Lower	Upper
83	100		
85	64.5	52.2	78.4
127	8.8	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

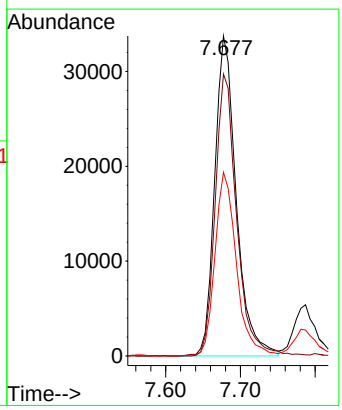
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

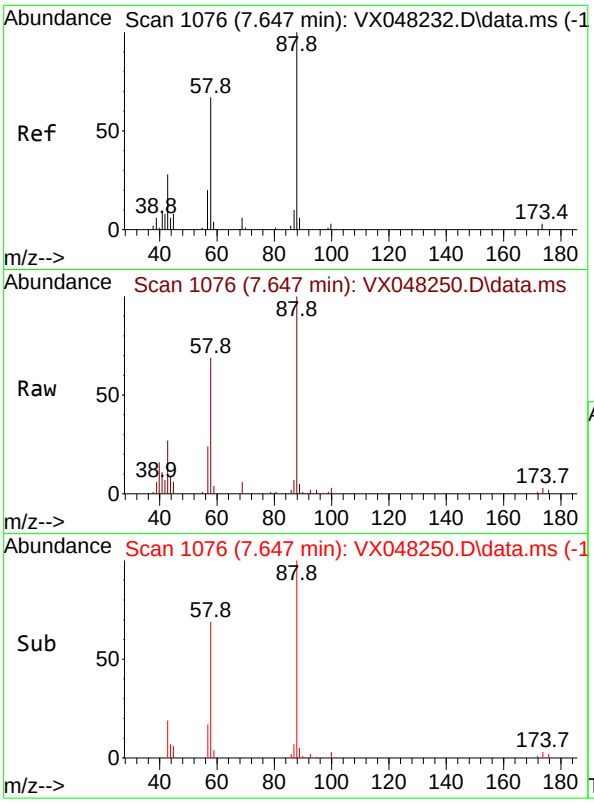


#48
Methyl methacrylate
Concen: 42.595 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 41 Resp: 67583

Ion	Ratio	Lower	Upper
41	100		
69	87.8	63.4	95.0
39	57.3	47.1	70.7





#49
1,4-Dioxane
Concen: 807.374 ug/l
RT: 7.647 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

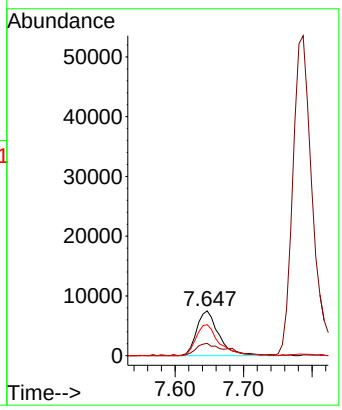
Tgt Ion: 88 Resp: 1692

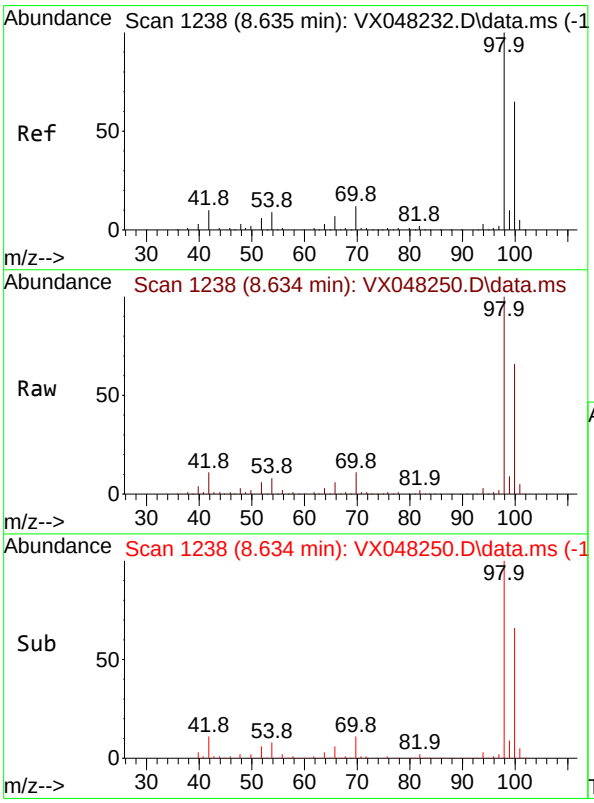
Ion	Ratio	Lower	Upper
88	100		
43	38.3	35.0	52.4
58	72.1	61.9	92.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

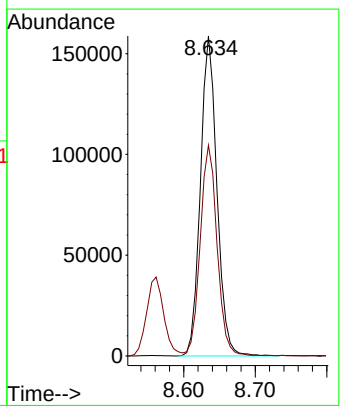


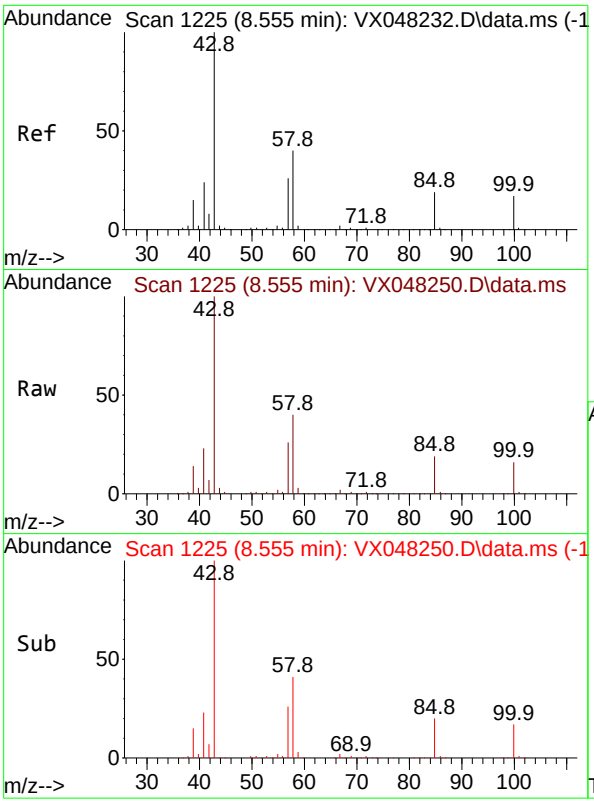


#50
Toluene-d8
Concen: 44.713 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 98 Resp: 254653

Ion	Ratio	Lower	Upper
98	100		
100	67.2	53.0	79.4

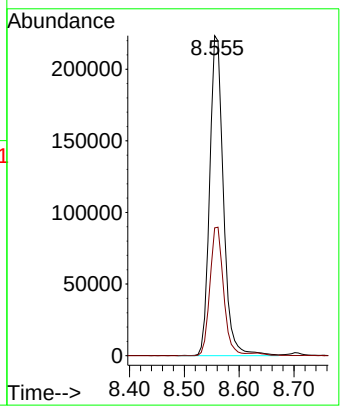




#51
4-Methyl-2-Pentanone
Concen: 213.772 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 43 Resp: 38755

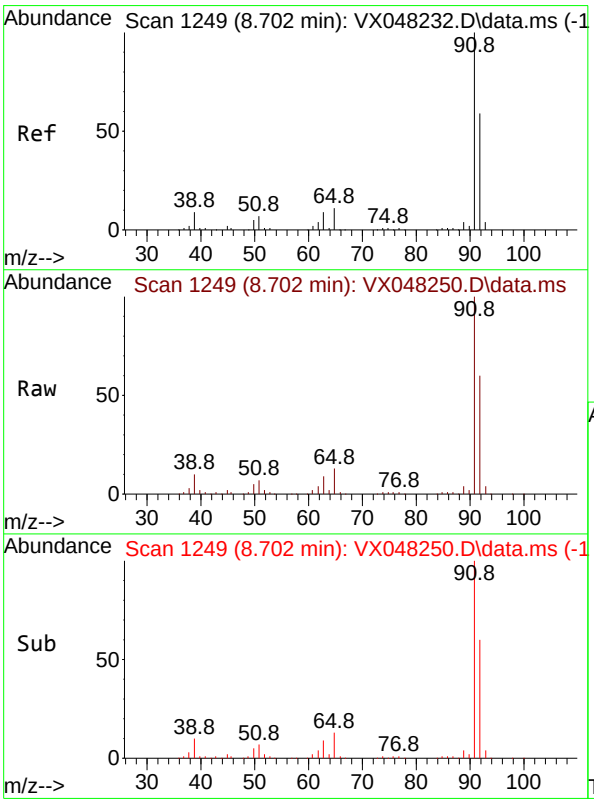
Ion	Ratio	Lower	Upper
43	100		
58	39.9	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

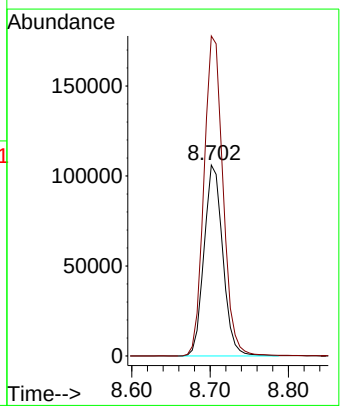
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

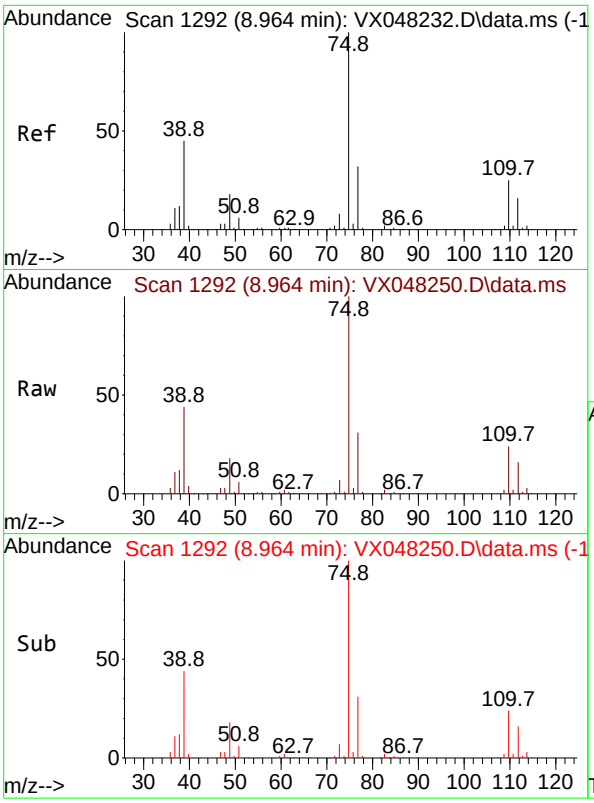


#52
Toluene
Concen: 41.403 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 92 Resp: 176360

Ion	Ratio	Lower	Upper
92	100		
91	170.2	136.1	204.1

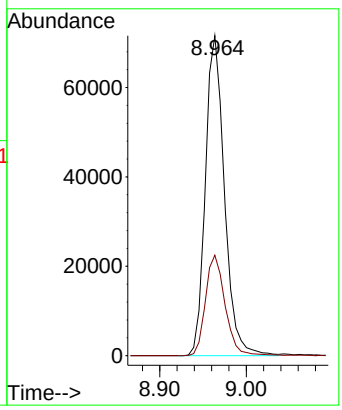




#53
t-1,3-Dichloropropene
Concen: 42.344 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 75 Resp: 10942

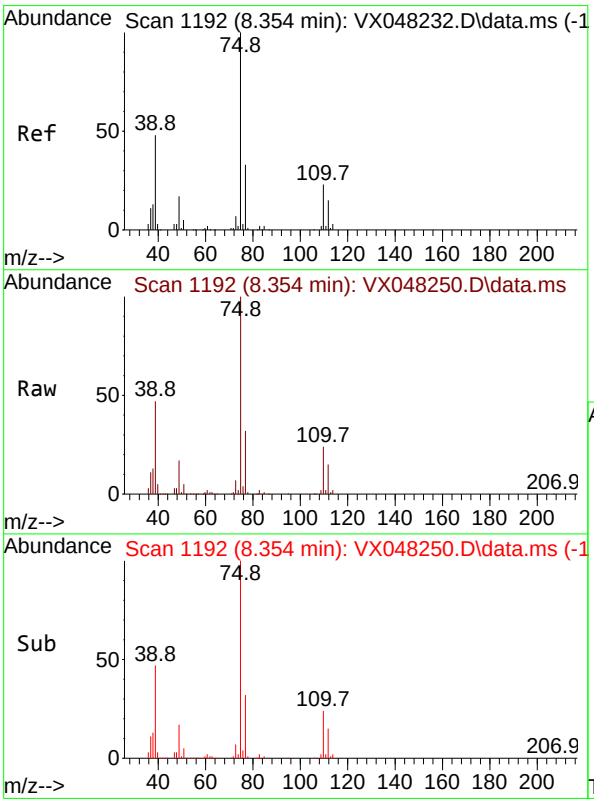
Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

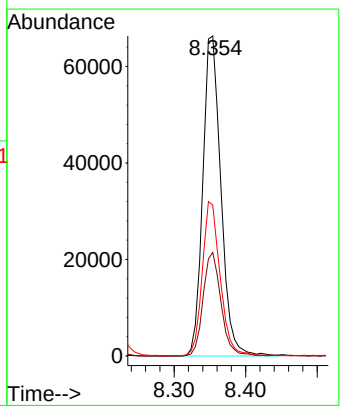
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

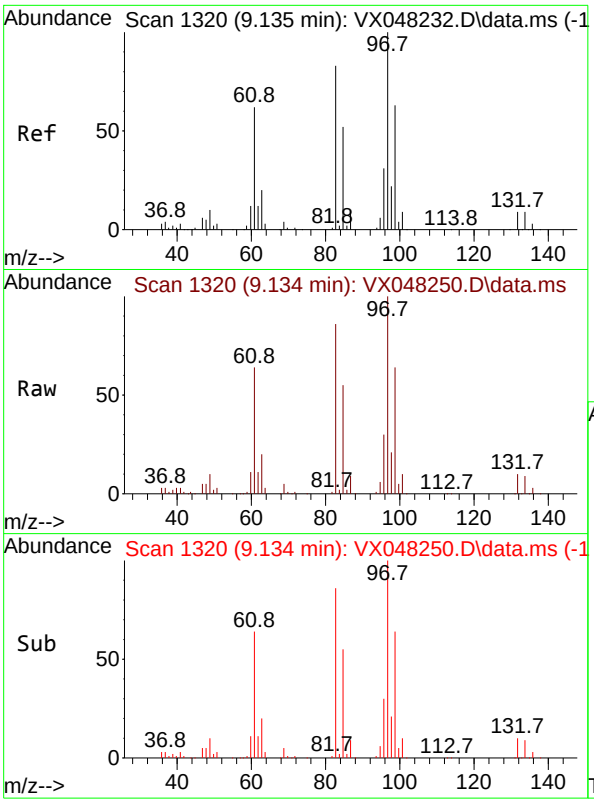


#54
cis-1,3-Dichloropropene
Concen: 41.966 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 75 Resp: 117004

Ion	Ratio	Lower	Upper
75	100		
77	32.4	24.9	37.3
39	47.0	42.6	64.0

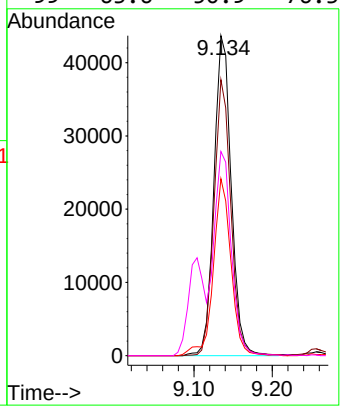




#55
1,1,2-Trichloroethane
Concen: 42.431 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 97 Resp: 6721

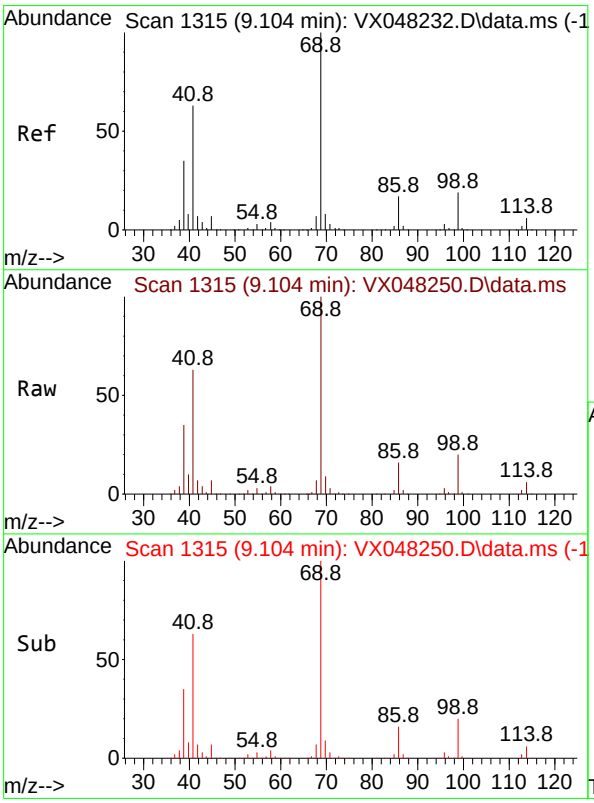
Ion	Ratio	Lower	Upper
97	100		
83	86.2	70.6	105.8
85	55.3	45.0	67.6
99	63.6	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

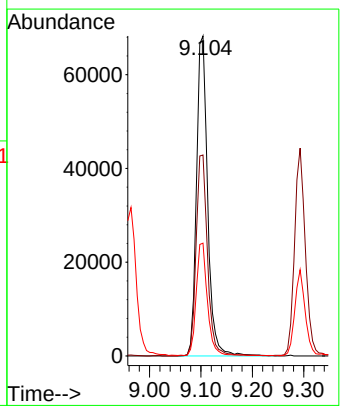
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

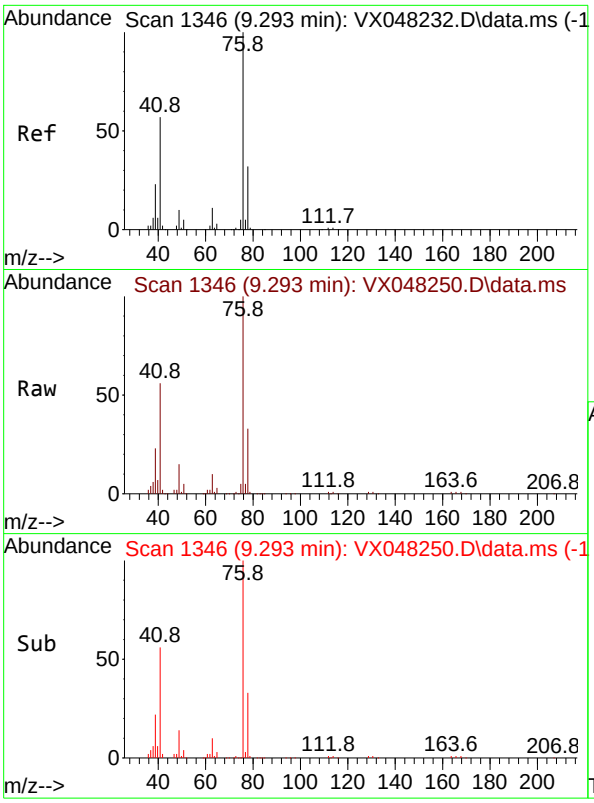


#56
Ethyl methacrylate
Concen: 44.462 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 69 Resp: 103017

Ion	Ratio	Lower	Upper
69	100		
41	64.3	56.0	84.0
39	35.5	31.6	47.4

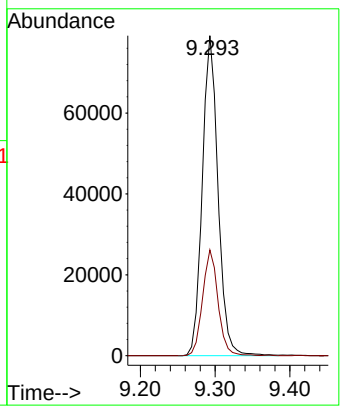




#57
1,3-Dichloropropane
Concen: 42.655 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 76 Resp: 11541

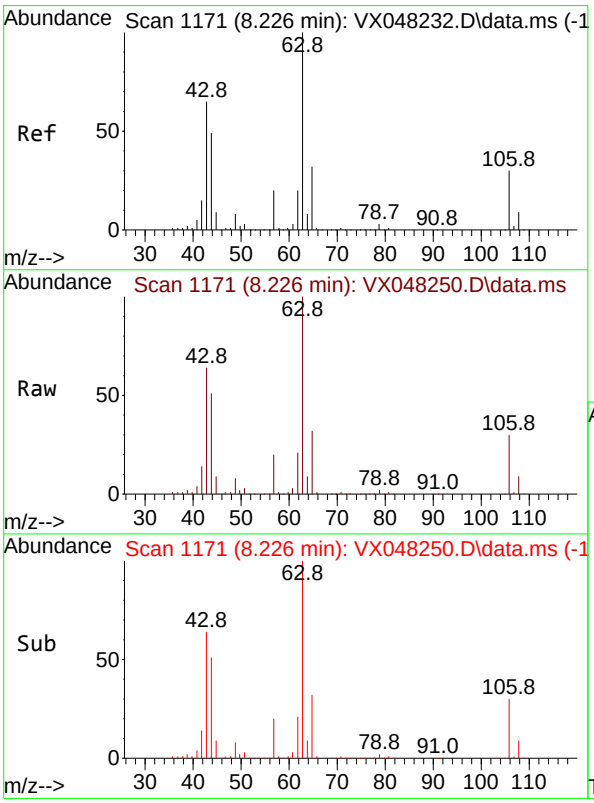
Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

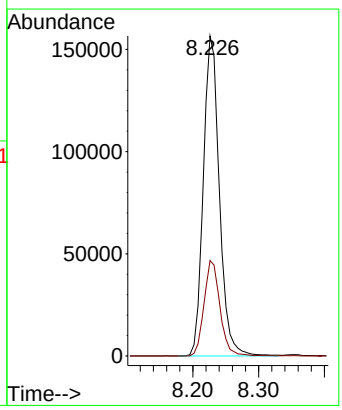
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

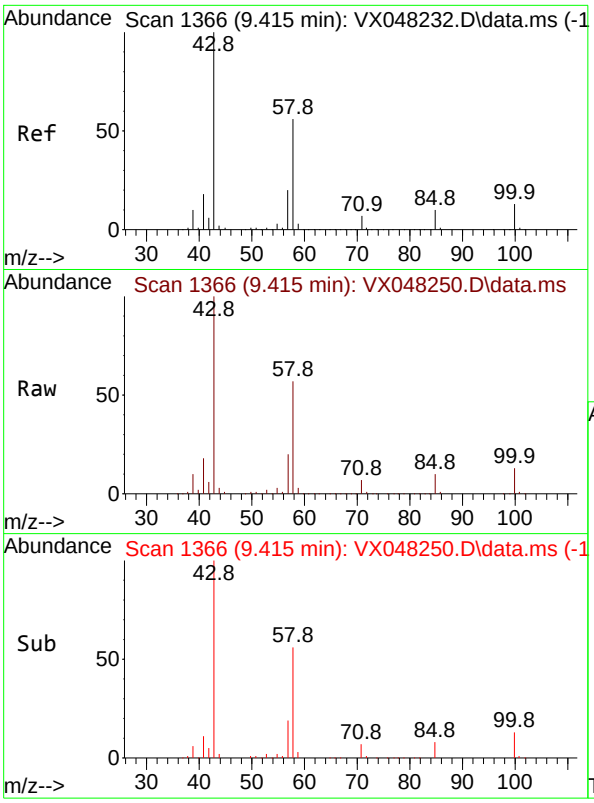


#58
2-Chloroethyl Vinyl ether
Concen: 213.796 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 63 Resp: 266044

Ion	Ratio	Lower	Upper
63	100		
106	29.6	22.2	33.2





#59
2-Hexanone
Concen: 211.078 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

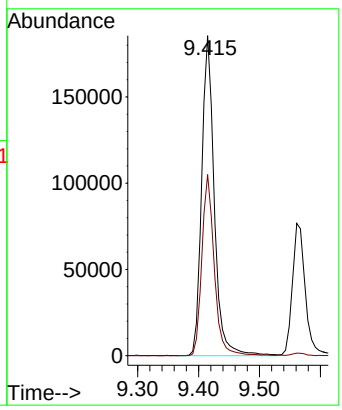
Tgt Ion: 43 Resp: 26682

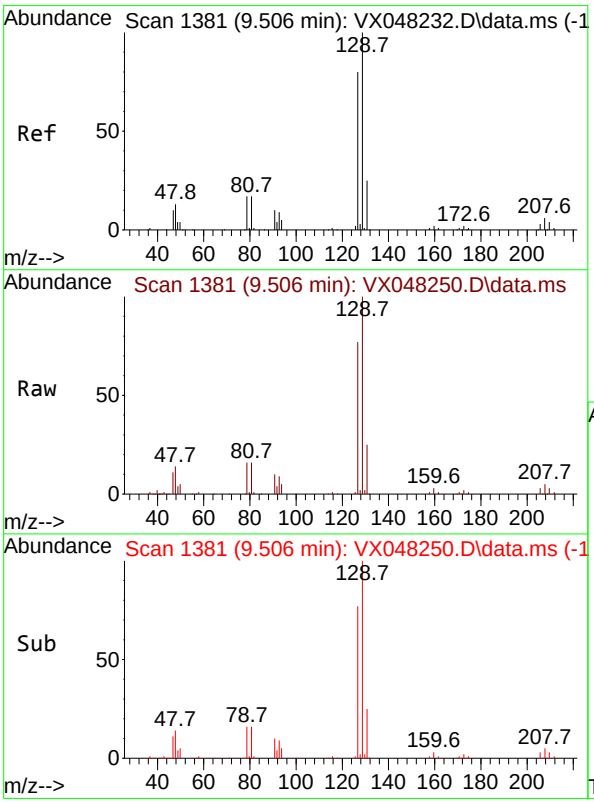
Ion	Ratio	Lower	Upper
43	100		
58	55.8	26.3	78.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

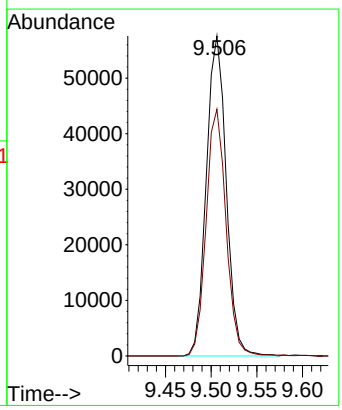


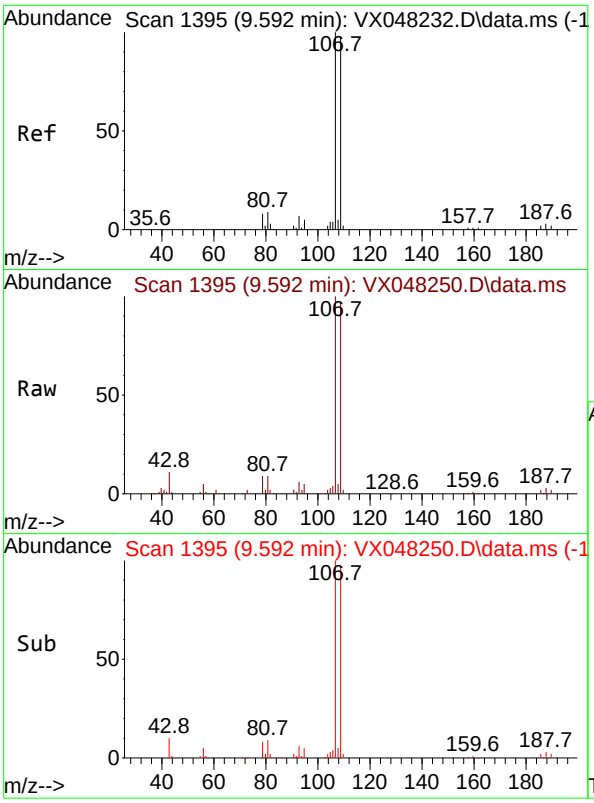


#60
Dibromochloromethane
Concen: 40.872 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:129 Resp: 87021

Ion	Ratio	Lower	Upper
129	100		
127	77.2	38.6	115.7





#61
1,2-Dibromoethane
Concen: 42.360 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

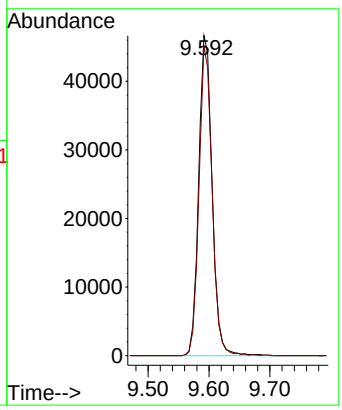
Tgt Ion:107 Resp: 7153

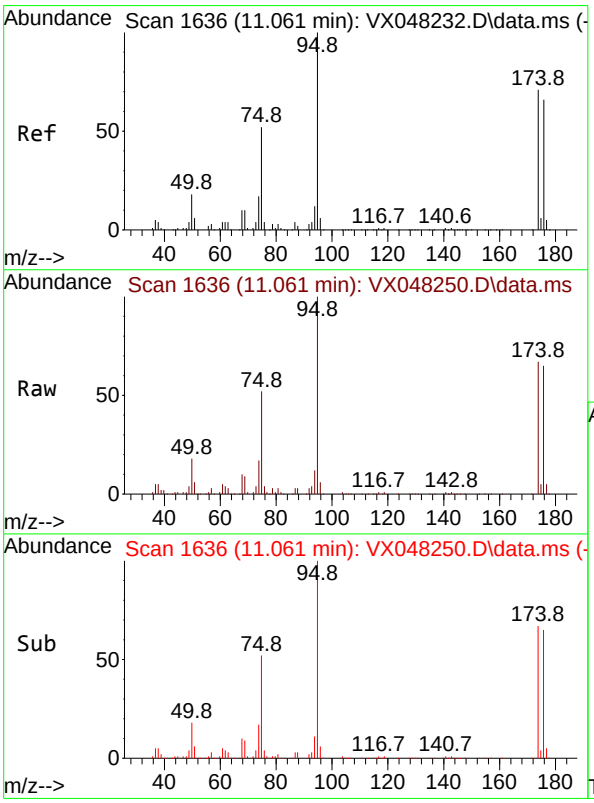
Ion	Ratio	Lower	Upper
107	100		
109	94.6	77.0	115.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

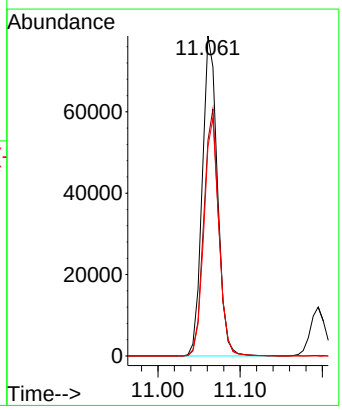


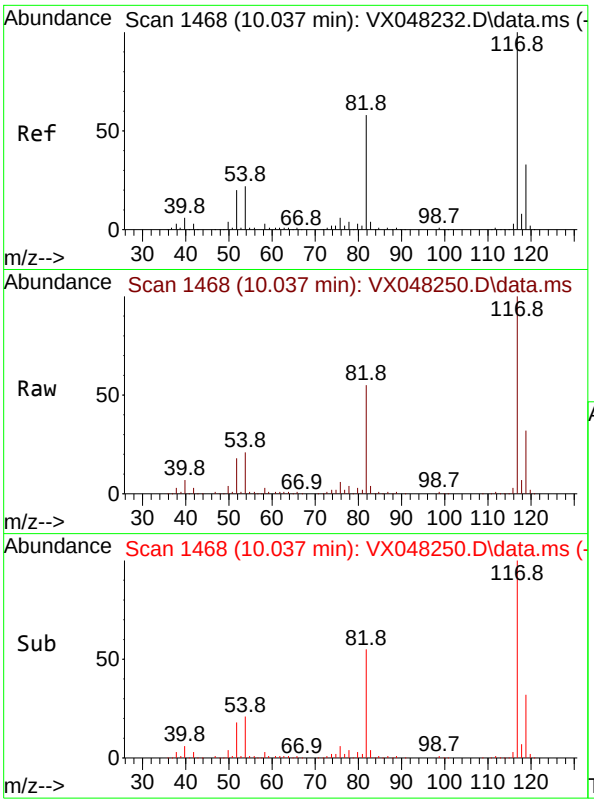


#62
4-Bromofluorobenzene
Concen: 46.587 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 95 Resp: 100937

Ion	Ratio	Lower	Upper
95	100		
174	75.9	0.0	147.8
176	73.3	0.0	142.8

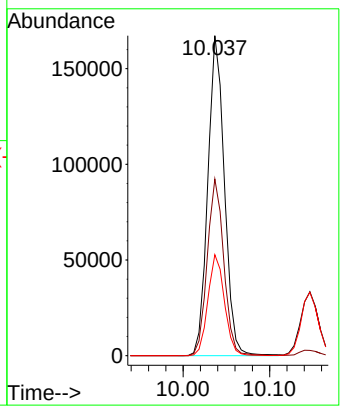




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:117 Resp: 22258

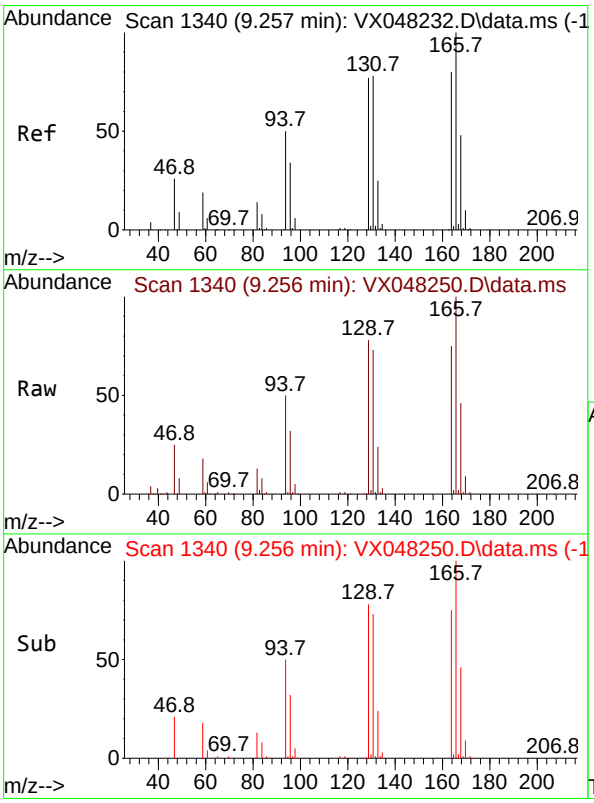
Ion	Ratio	Lower	Upper
117	100		
82	55.2	46.5	69.7
119	31.5	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

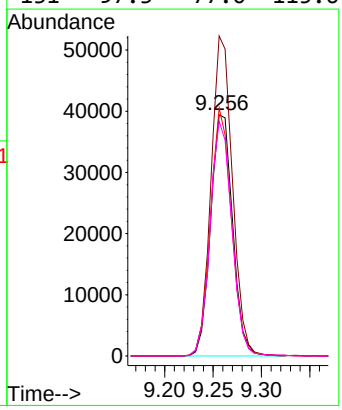
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

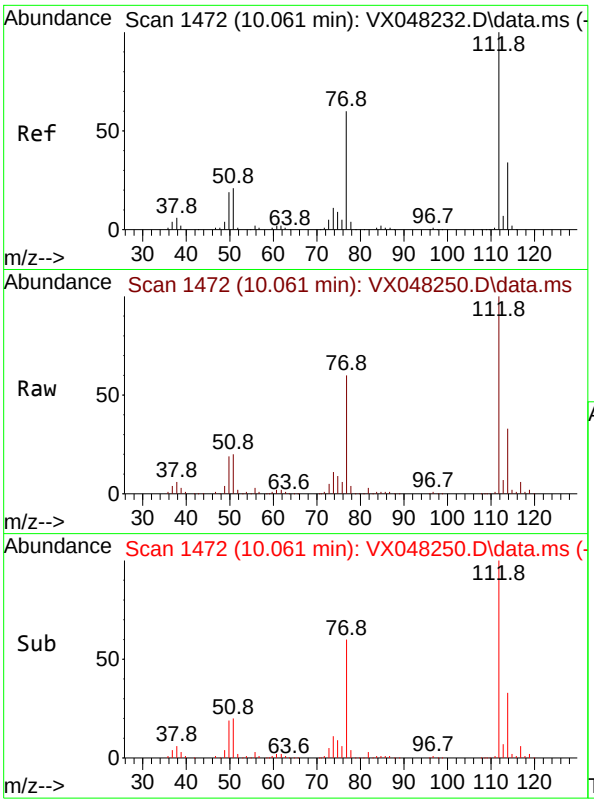


#64
Tetrachloroethene
Concen: 37.463 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:164 Resp: 62251

Ion	Ratio	Lower	Upper
164	100		
166	132.7	104.5	156.7
129	102.9	81.8	122.6
131	97.3	77.0	115.6





#65
Chlorobenzene
Concen: 39.787 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

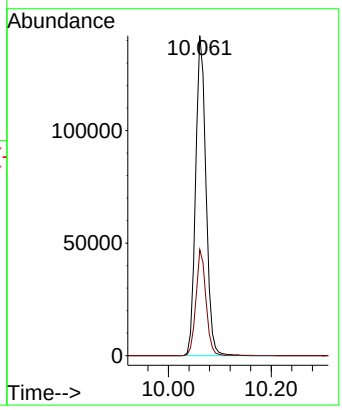
Tgt Ion:112 Resp: 19921

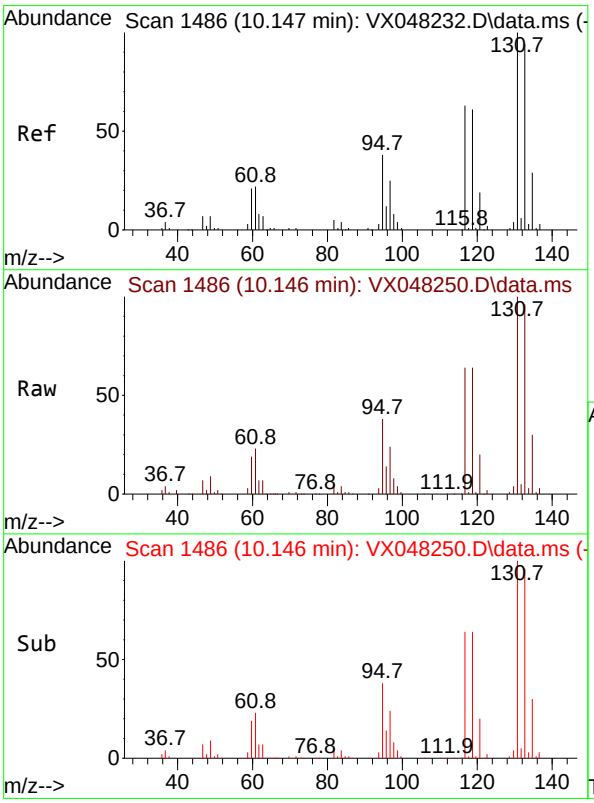
Ion	Ratio	Lower	Upper
112	100		
114	33.1	26.2	39.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

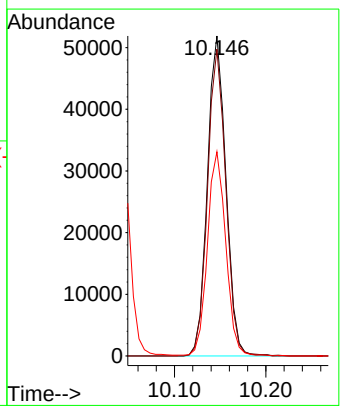


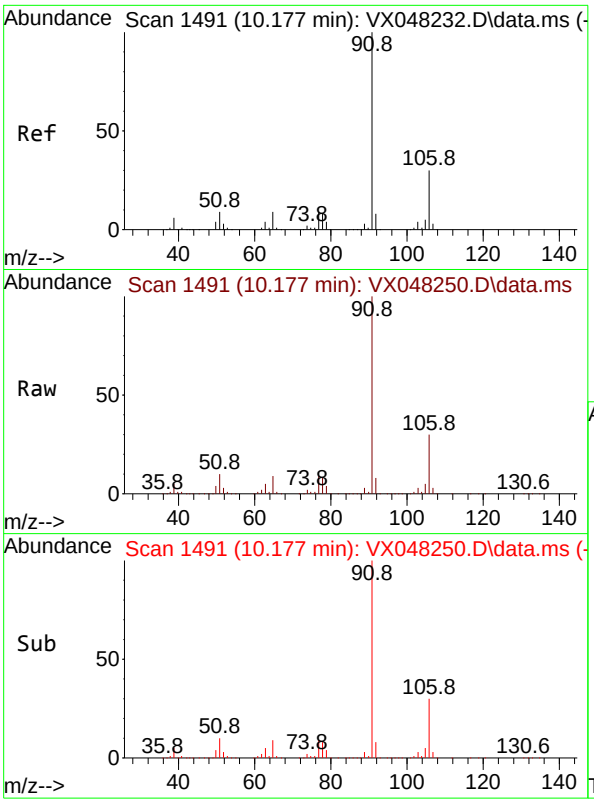


#66
1,1,1,2-Tetrachloroethane
Concen: 39.651 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:131 Resp: 72921

Ion	Ratio	Lower	Upper
131	100		
133	94.8	47.6	142.8
119	63.1	32.5	97.5

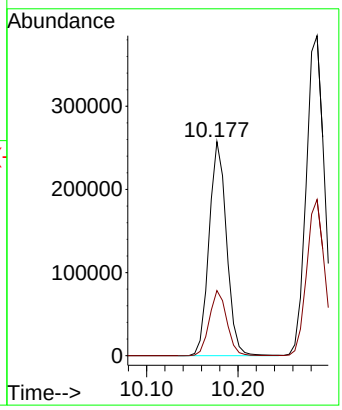




#67
Ethyl Benzene
Concen: 39.962 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 91 Resp: 34067

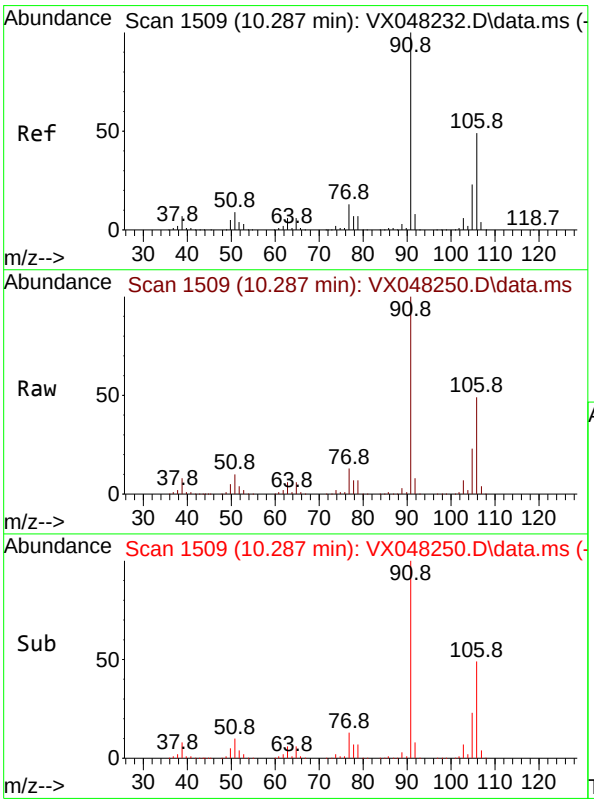
Ion	Ratio	Lower	Upper
91	100		
106	30.4	23.8	35.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

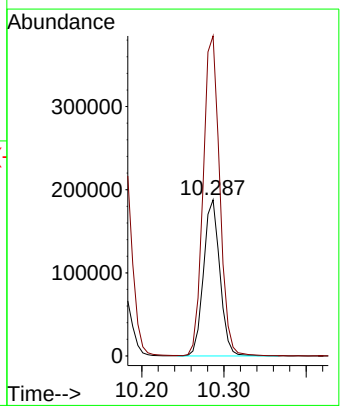
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

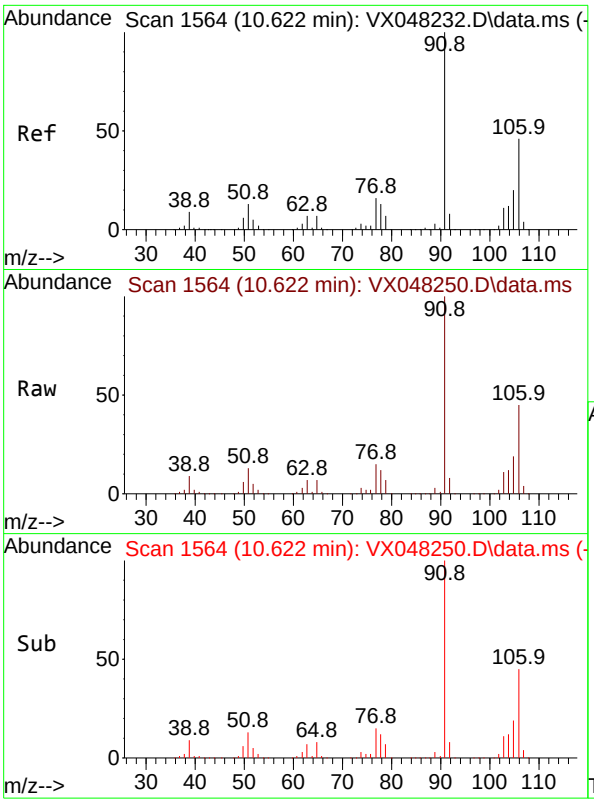


#68
m/p-Xylenes
Concen: 81.737 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:106 Resp: 258895

Ion	Ratio	Lower	Upper
106	100		
91	207.8	167.9	251.9





#69
o-Xylene
Concen: 40.619 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

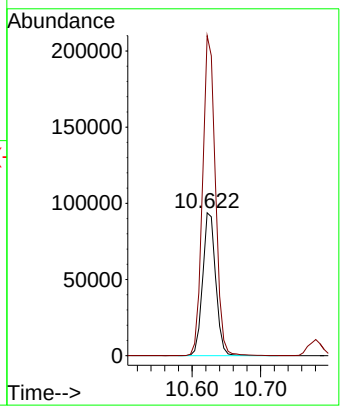
Tgt Ion:106 Resp: 12421

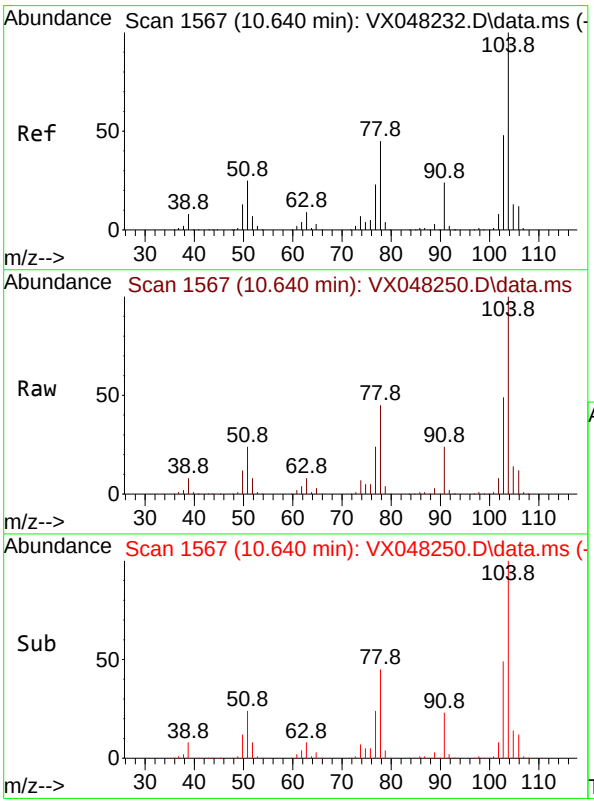
Ion	Ratio	Lower	Upper
106	100		
91	220.3	111.3	333.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

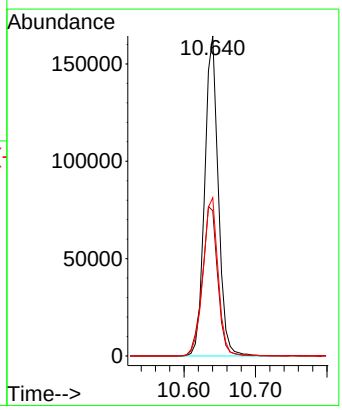


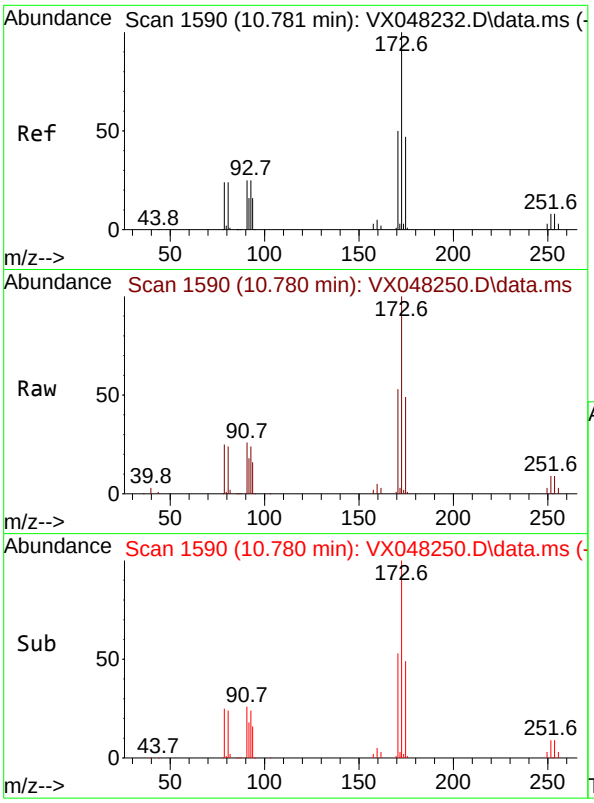


#70
Styrene
Concen: 41.732 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:104 Resp: 217296

Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.2	63.4
103	54.7	43.0	64.4

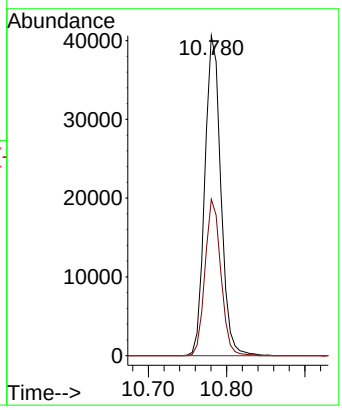




#71
Bromoform
Concen: 39.184 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:173 Resp: 5759

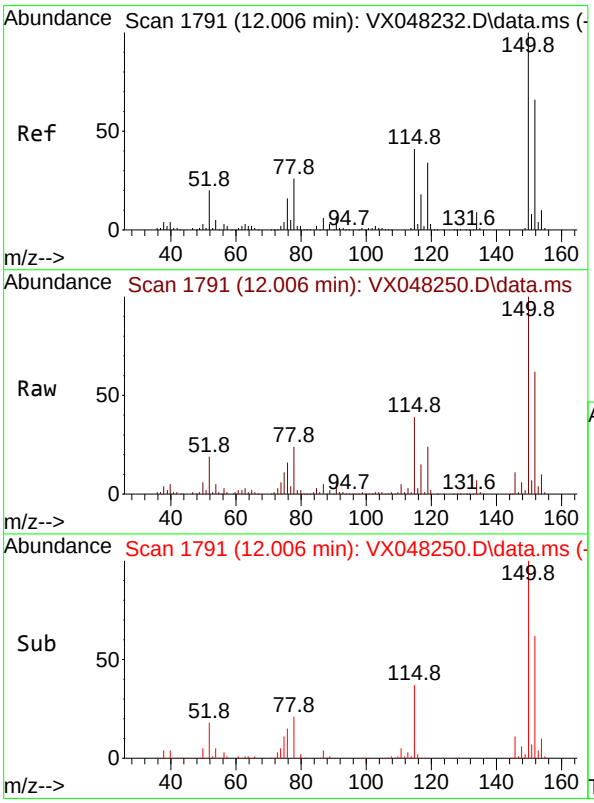
Ion	Ratio	Lower	Upper
173	100		
175	48.1	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

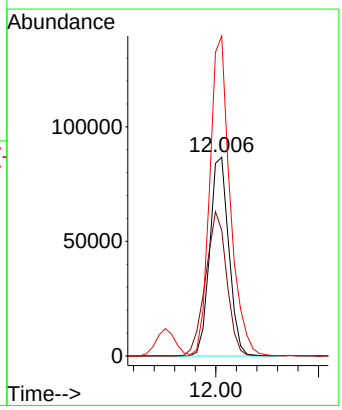
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

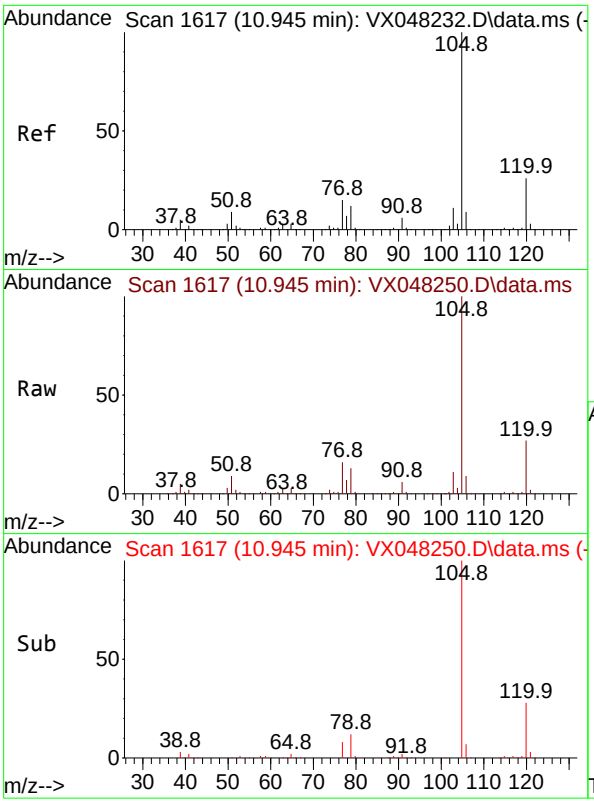


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:152 Resp: 111726

Ion	Ratio	Lower	Upper
152	100		
115	80.8	43.1	129.4
150	171.0	0.0	353.0





#73
Isopropylbenzene
Concen: 39.266 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

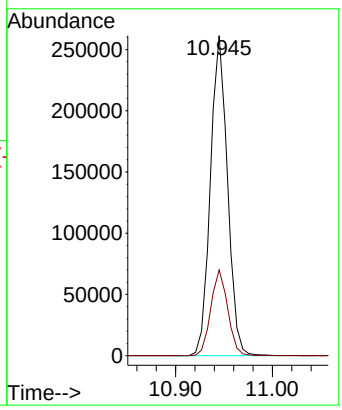
Tgt Ion:105 Resp: 32042

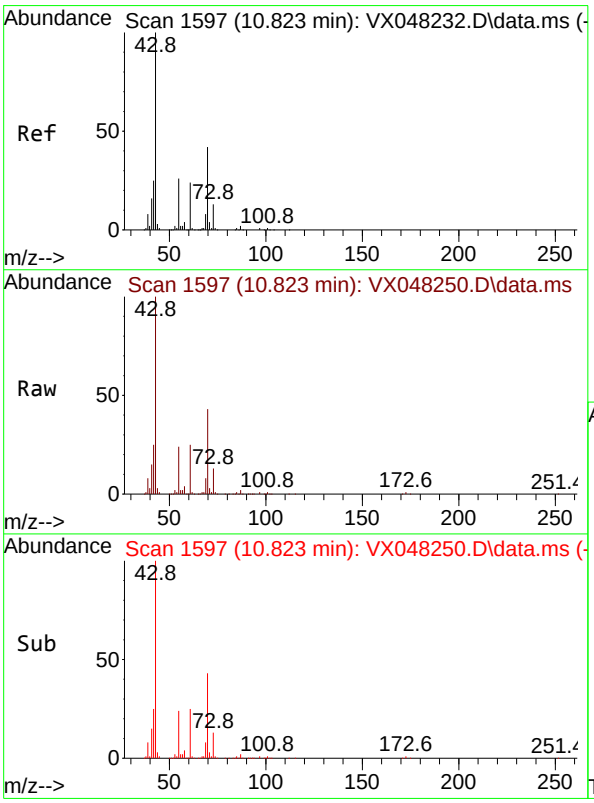
Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.0	38.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

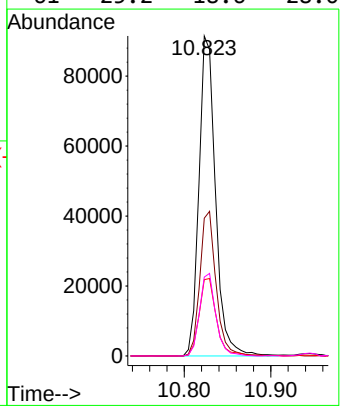


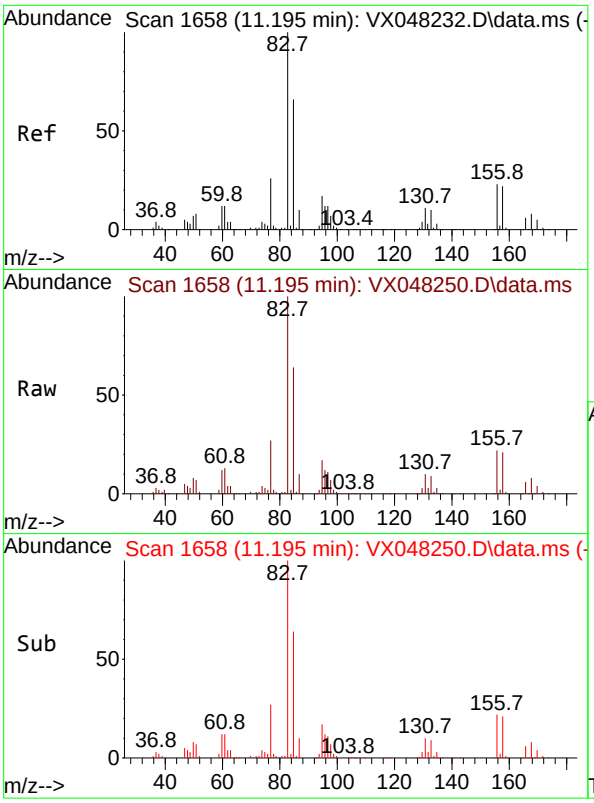


#74
N-amyl acetate
Concen: 41.983 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 43 Resp: 121526

Ion	Ratio	Lower	Upper
43	100		
70	44.5	32.2	48.2
55	25.2	19.1	28.7
61	25.2	18.6	28.0





#75
1,1,2,2-Tetrachloroethane
Concen: 40.326 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

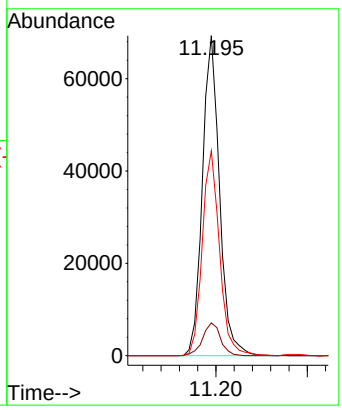
Tgt Ion: 83 Resp: 8986

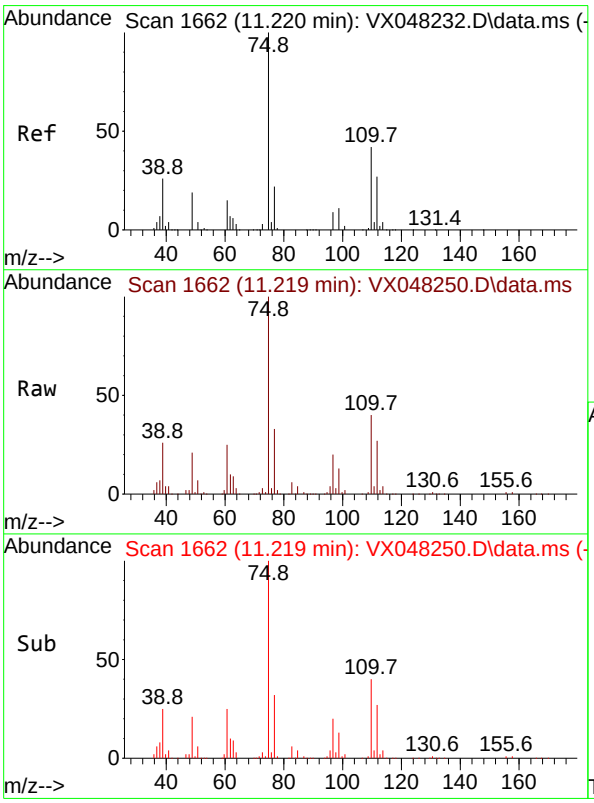
Ion	Ratio	Lower	Upper
83	100		
131	10.8	4.8	14.4
85	64.6	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

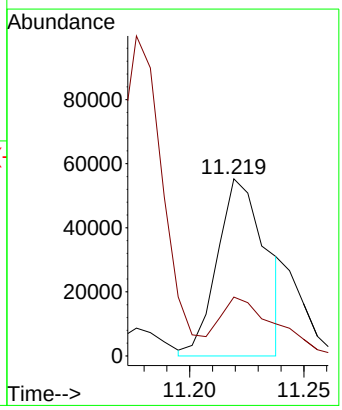


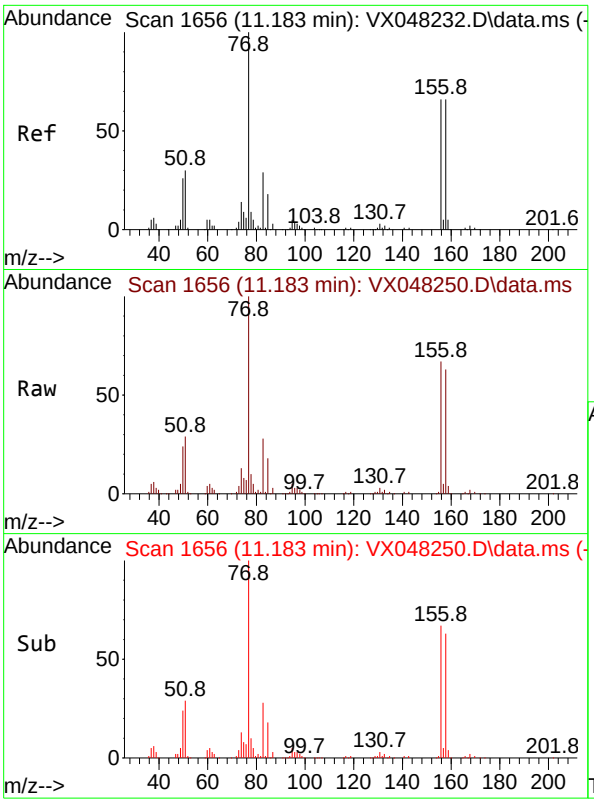


#76
1,2,3-Trichloropropane
Concen: 44.991 ug/l m
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 75 Resp: 81515

Ion	Ratio	Lower	Upper
75	100		
77	37.8	22.4	67.2





#77
Bromobenzene
Concen: 40.142 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

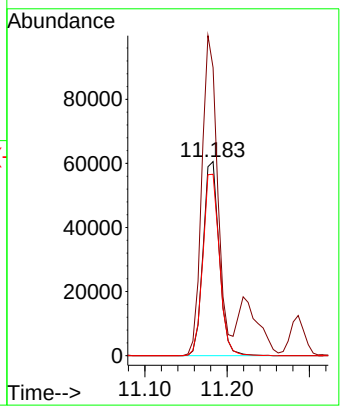
Tgt Ion:156 Resp: 8213

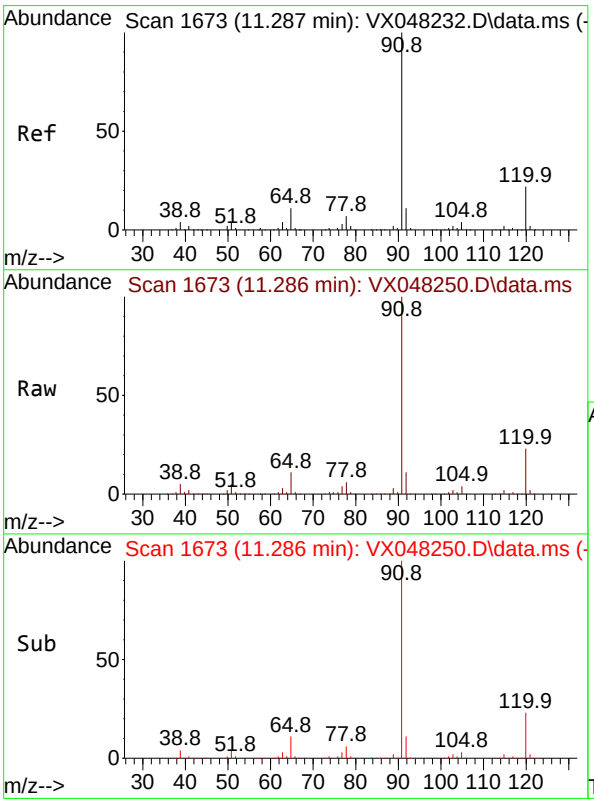
Ion	Ratio	Lower	Upper
156	100		
77	162.9	87.0	261.0
158	96.3	47.8	143.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

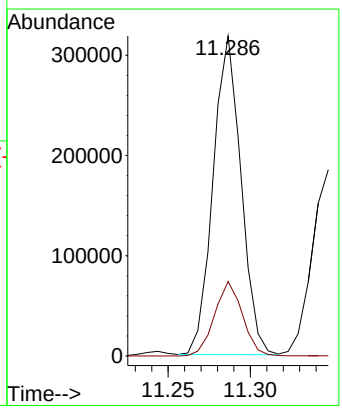


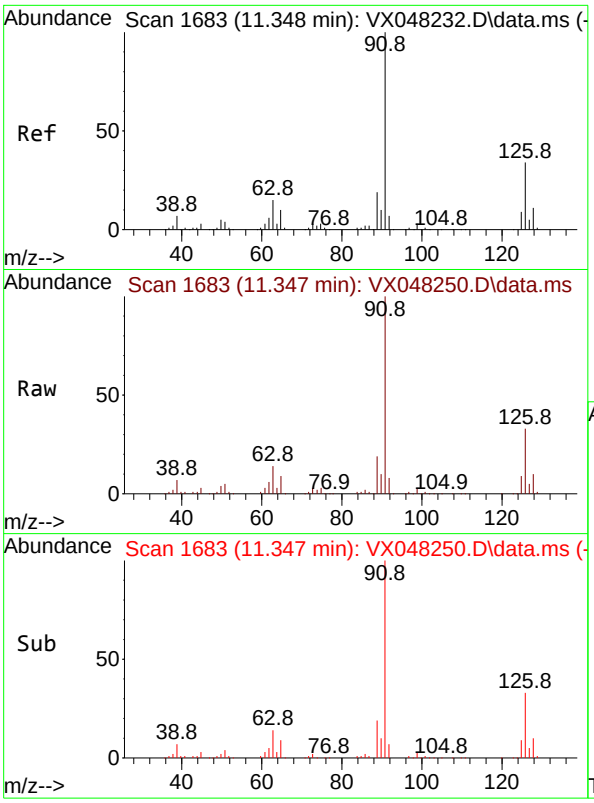


#78
n-propylbenzene
Concen: 39.766 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 91 Resp: 375729

Ion	Ratio	Lower	Upper
91	100		
120	23.4	11.1	33.1





#79
2-Chlorotoluene
Concen: 39.772 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

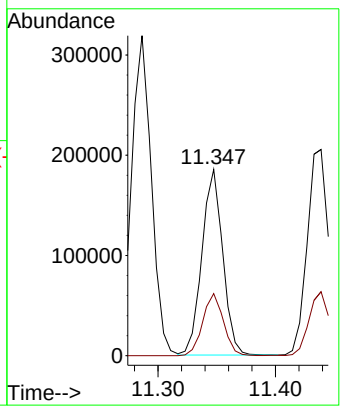
Tgt Ion: 91 Resp: 22783

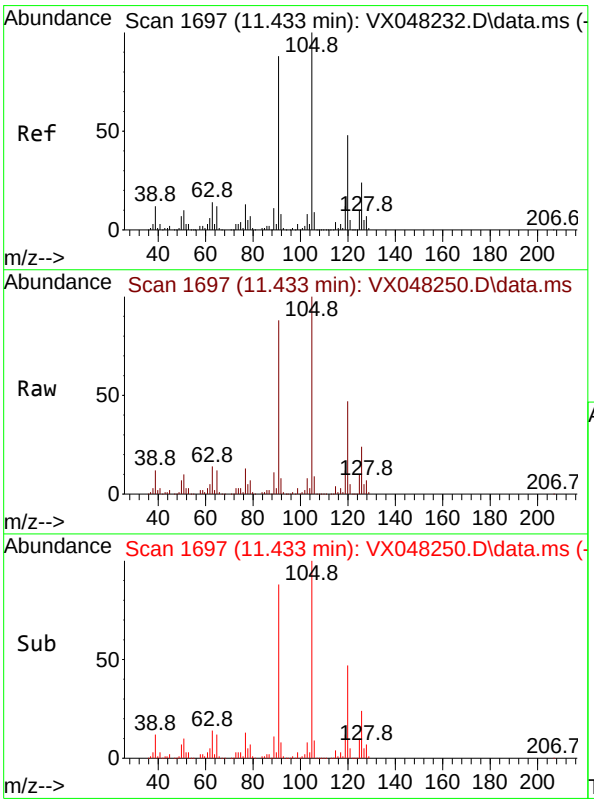
Ion	Ratio	Lower	Upper
91	100		
126	33.4	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

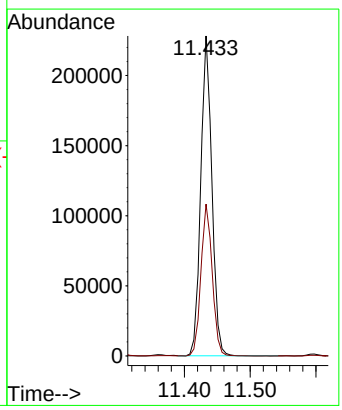


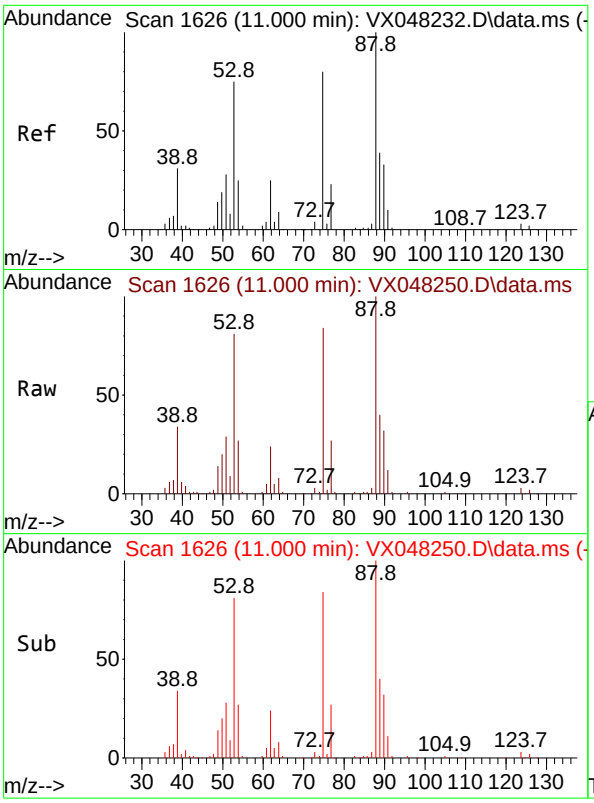


#80
1,3,5-Trimethylbenzene
Concen: 39.638 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:105 Resp: 267685

Ion	Ratio	Lower	Upper
105	100		
120	48.2	24.0	72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 38.739 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

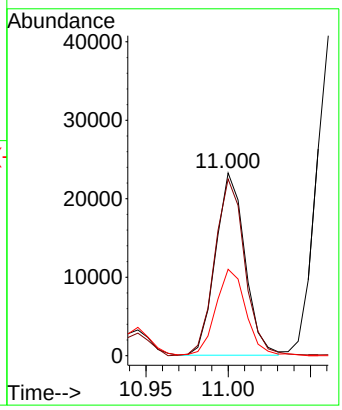
Tgt Ion: 75 Resp: 2884

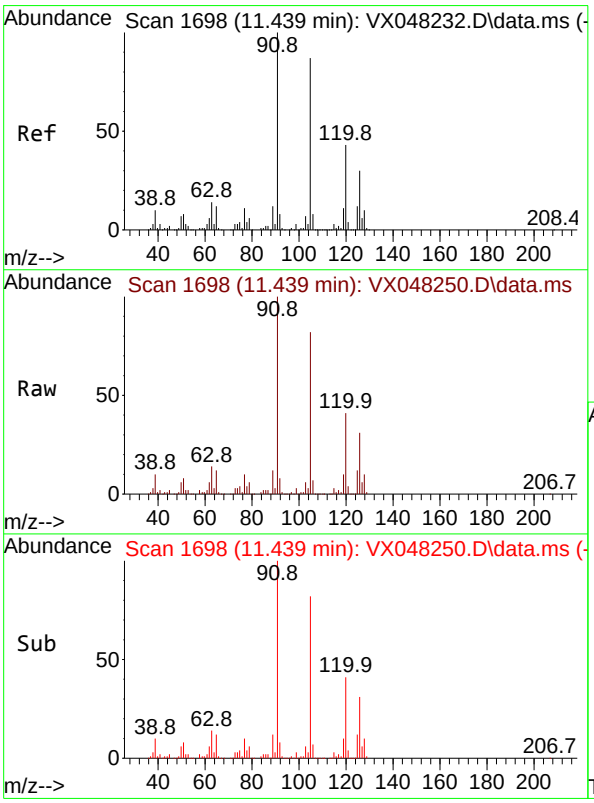
Ion	Ratio	Lower	Upper
75	100		
53	99.8	79.5	119.3
89	48.9	36.8	55.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

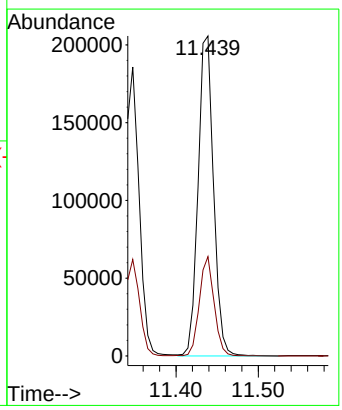


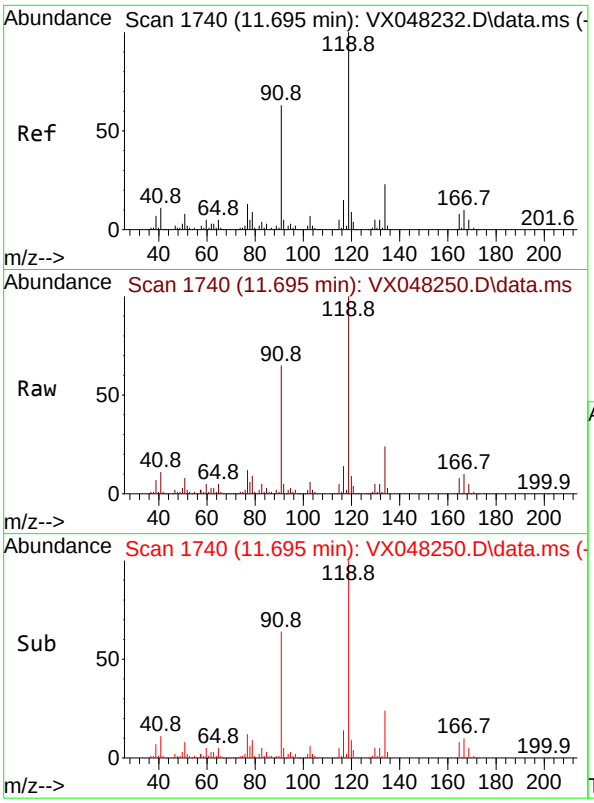


#82
4-Chlorotoluene
Concen: 39.656 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 91 Resp: 269666

Ion	Ratio	Lower	Upper
91	100		
126	29.7	14.1	42.4

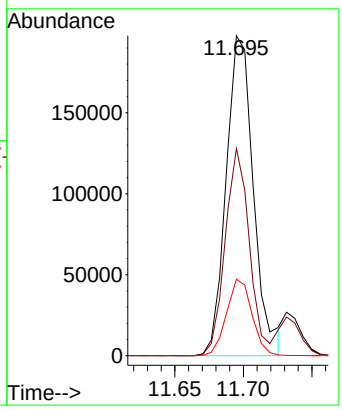




#83
tert-Butylbenzene
Concen: 39.532 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:119 Resp: 27430

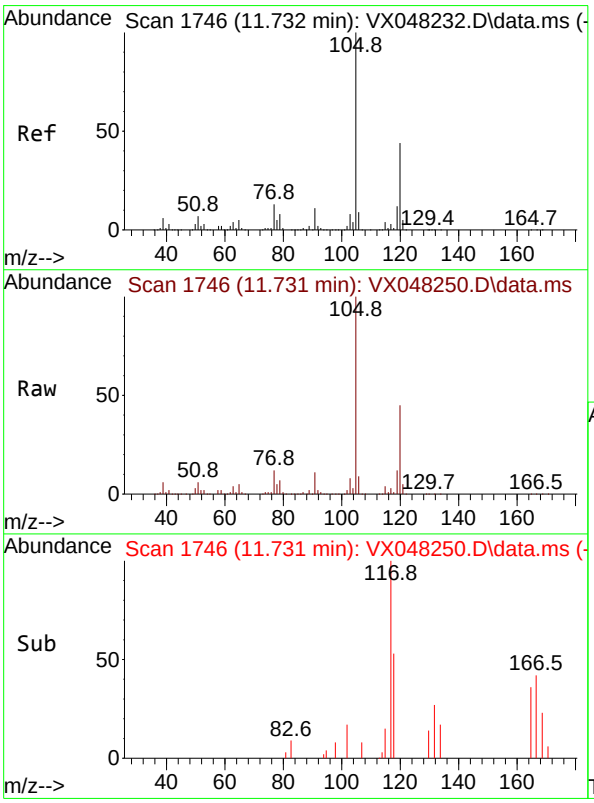
Ion	Ratio	Lower	Upper
119	100		
91	57.3	30.3	91.0
134	22.3	11.4	34.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

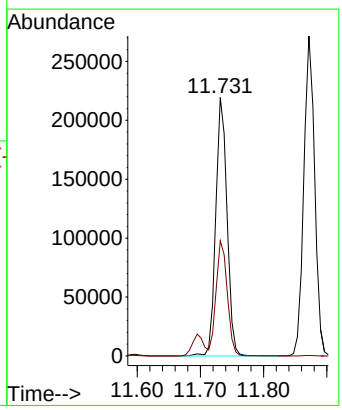
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

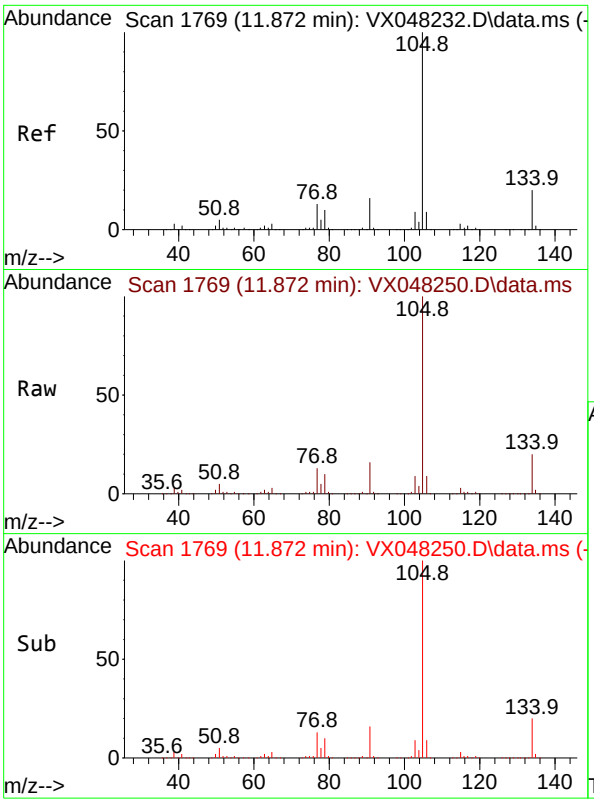


#84
1,2,4-Trimethylbenzene
Concen: 40.199 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:105 Resp: 270928

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.5





#85
sec-Butylbenzene
Concen: 38.565 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

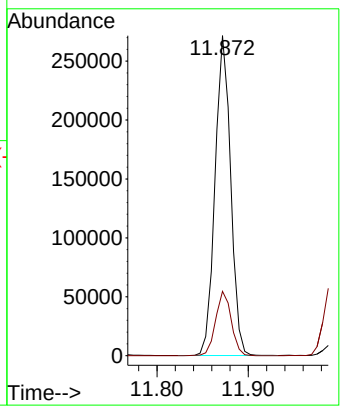
Tgt Ion:105 Resp: 32193

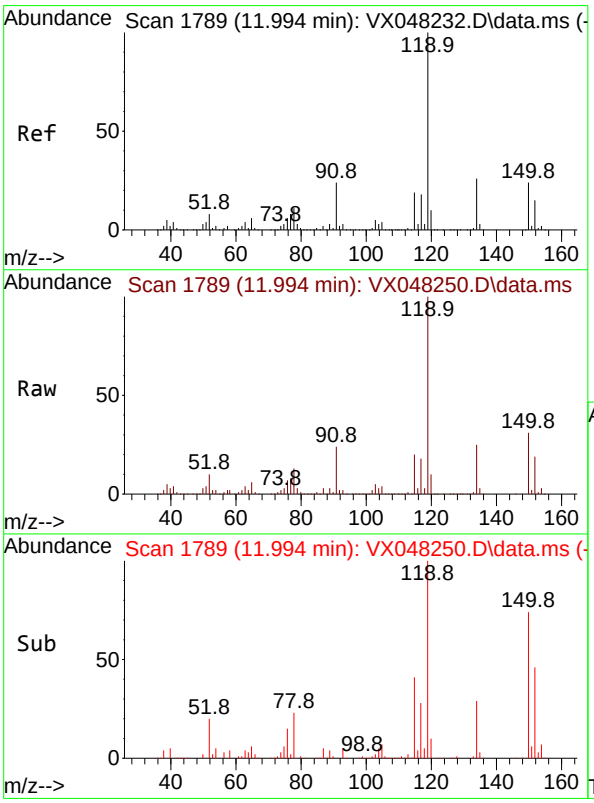
Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.1	30.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

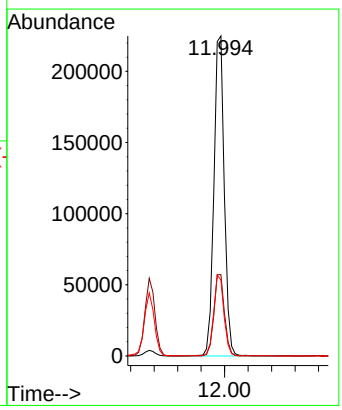


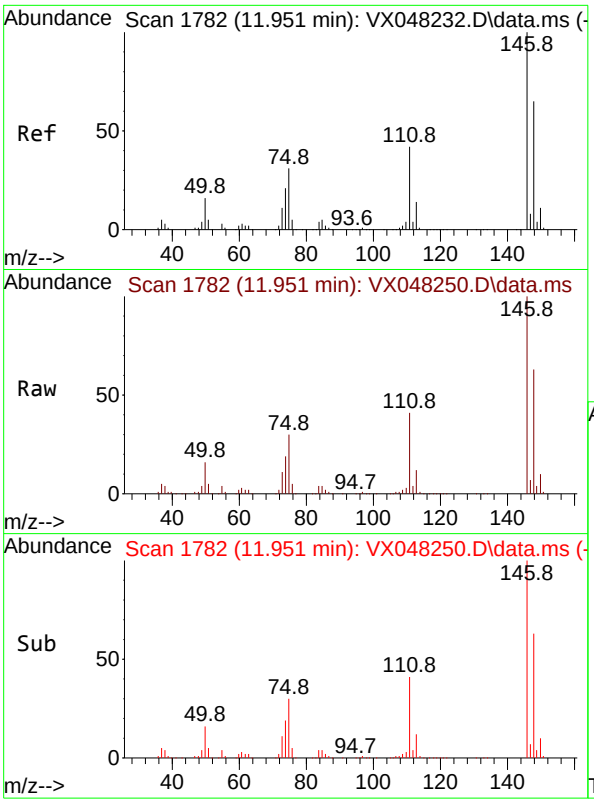


#86
p-Isopropyltoluene
Concen: 38.201 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:119 Resp: 275642

Ion	Ratio	Lower	Upper
119	100		
134	25.8	13.0	39.0
91	24.8	12.1	36.3

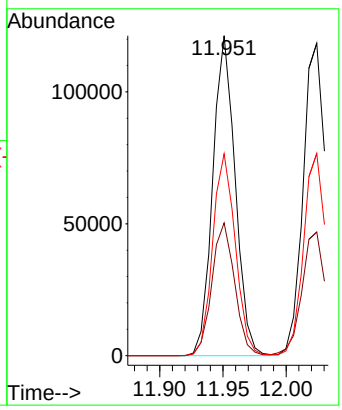




#87
1,3-Dichlorobenzene
Concen: 38.747 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:146 Resp: 14946

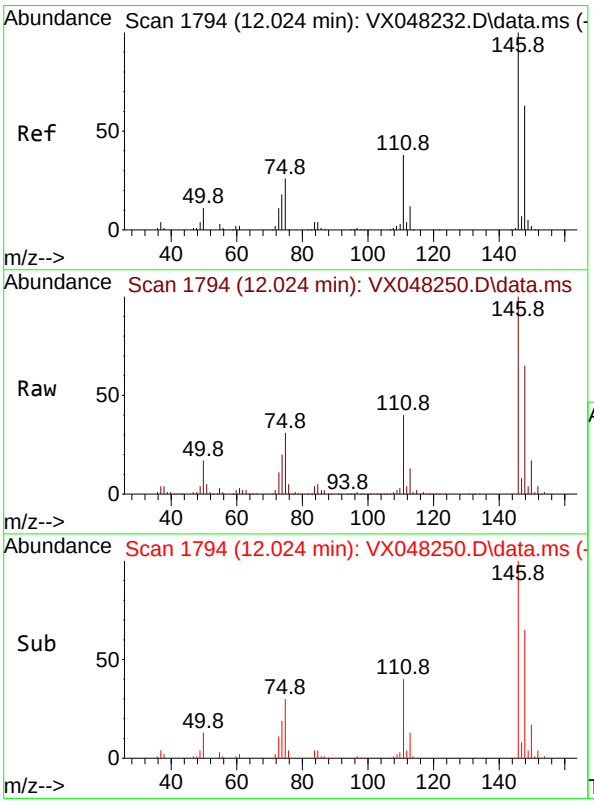
Ion	Ratio	Lower	Upper
146	100		
111	42.1	20.4	61.2
148	63.6	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

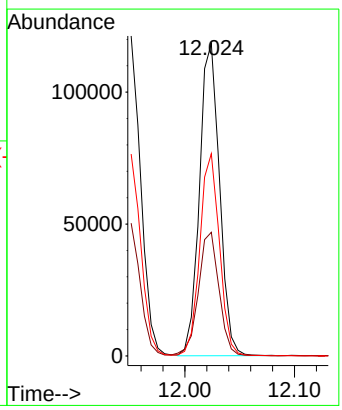
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

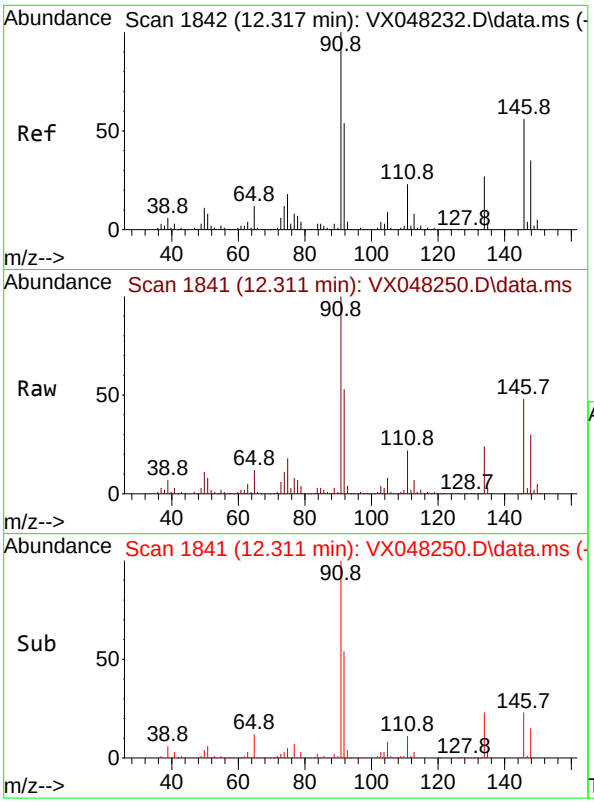


#88
1,4-Dichlorobenzene
Concen: 37.584 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:146 Resp: 150187

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.1	60.2
148	63.3	31.8	95.3





#89
n-Butylbenzene
Concen: 37.088 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

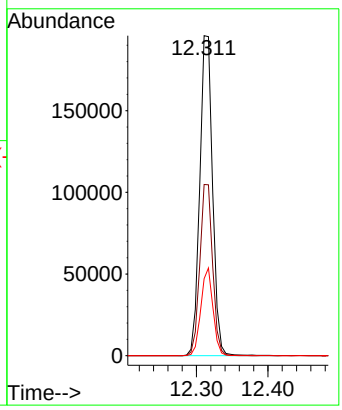
Tgt Ion: 91 Resp: 24357

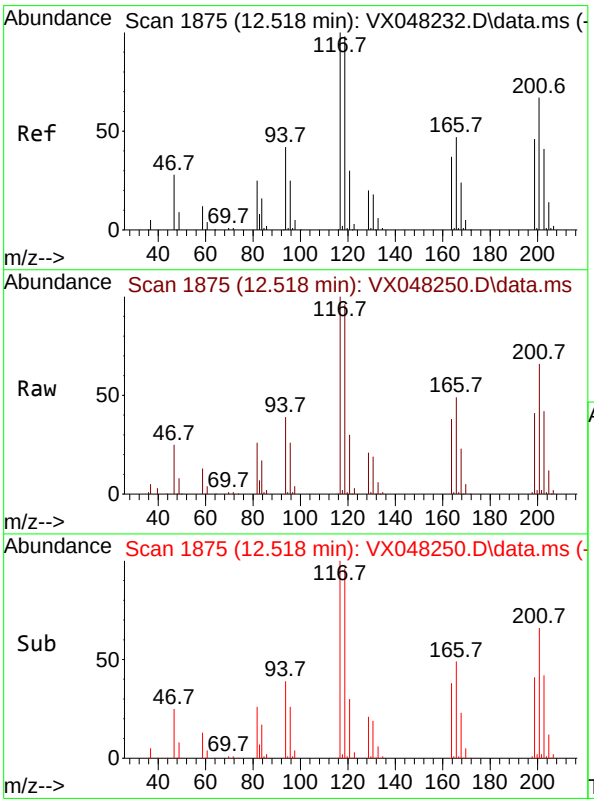
Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.9	80.6
134	25.8	12.7	38.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

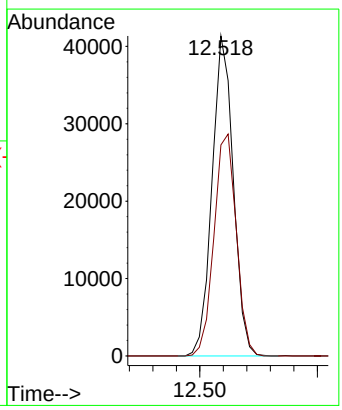


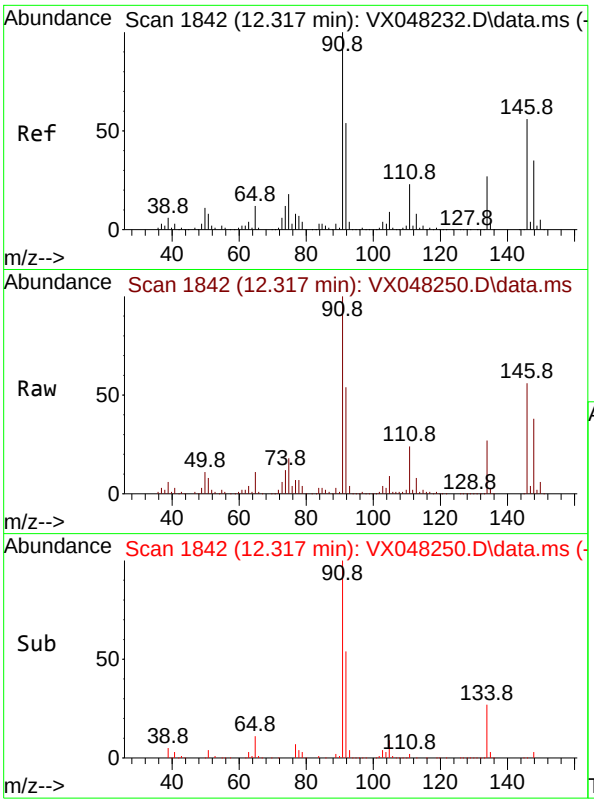


#90
Hexachloroethane
Concen: 36.415 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:117 Resp: 51888

Ion	Ratio	Lower	Upper
117	100		
201	72.9	34.1	102.2

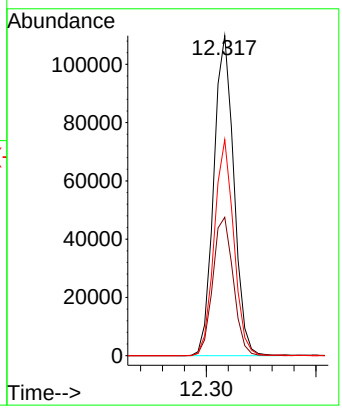




#91
1,2-Dichlorobenzene
Concen: 38.670 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:146 Resp: 14004

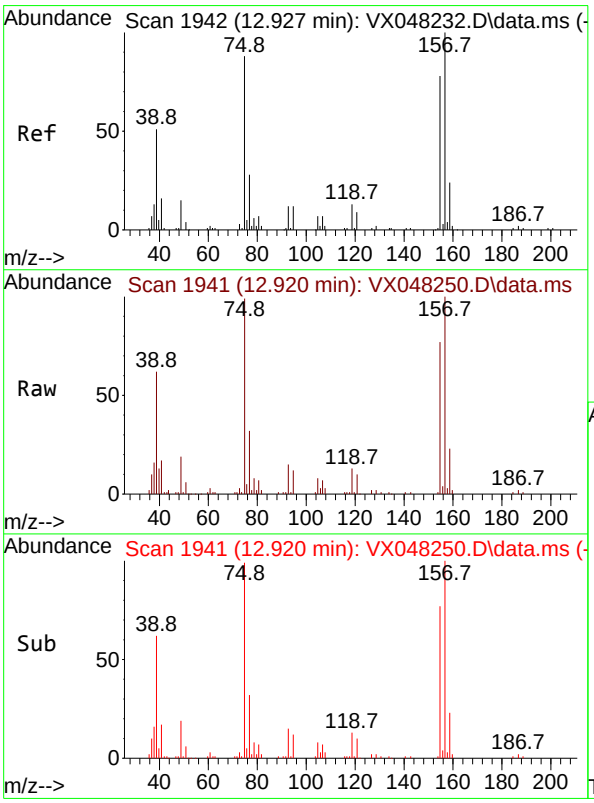
Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.9	65.5
148	65.7	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

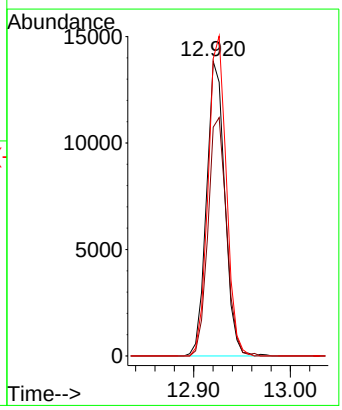
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

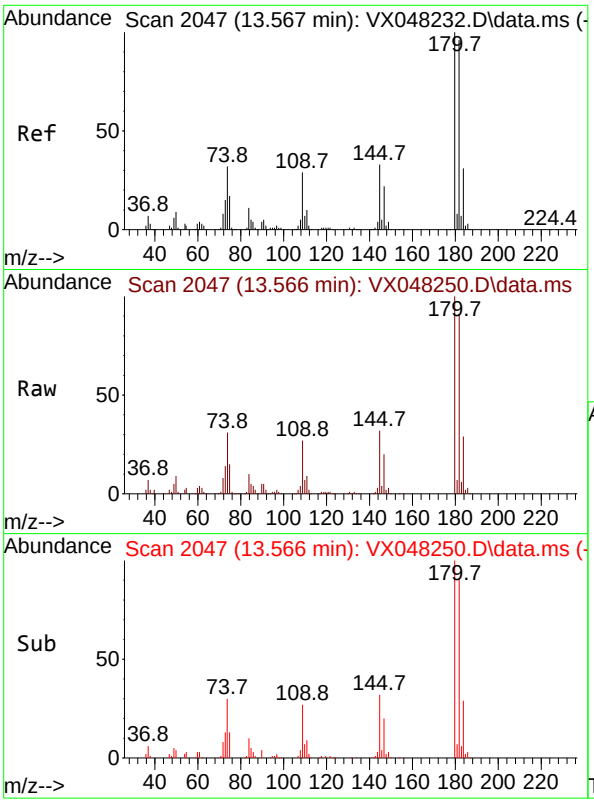


#92
1,2-Dibromo-3-Chloropropane
Concen: 40.157 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 75 Resp: 18165

Ion	Ratio	Lower	Upper
75	100		
155	82.2	42.8	128.4
157	107.8	54.2	162.6

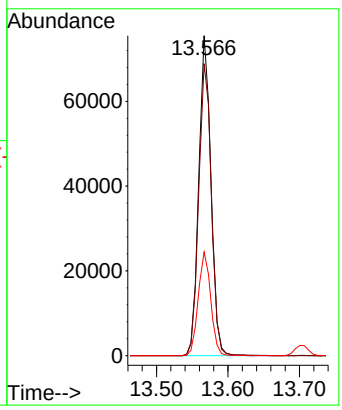




#93
1,2,4-Trichlorobenzene
Concen: 36.492 ug/l
RT: 13.566 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:180 Resp: 8937

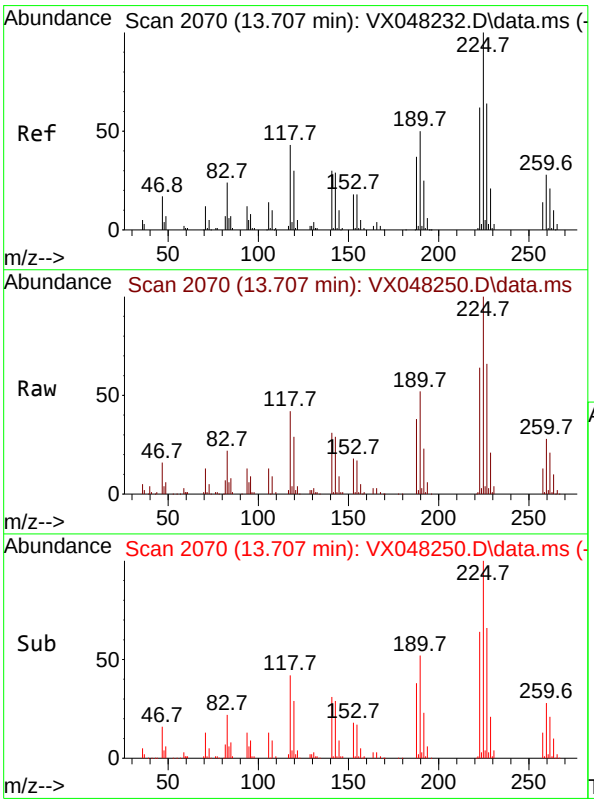
Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.3	142.0
145	33.2	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

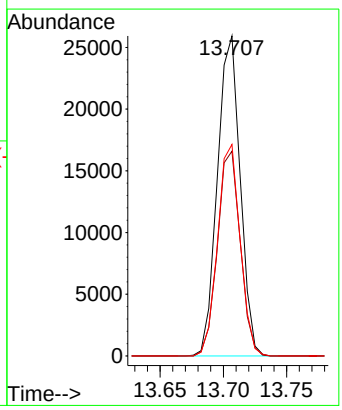
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

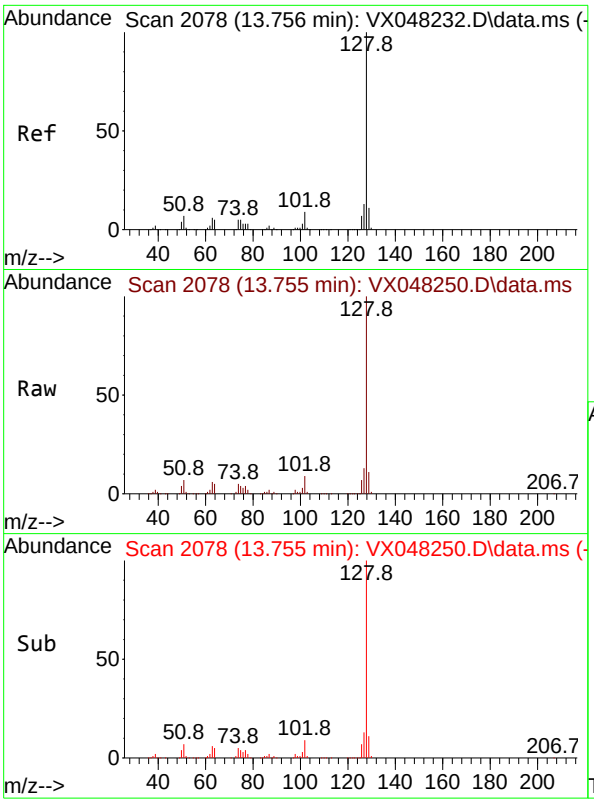


#94
Hexachlorobutadiene
Concen: 35.315 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:225 Resp: 32393

Ion	Ratio	Lower	Upper
225	100		
223	63.9	32.6	97.7
227	65.4	32.5	97.4

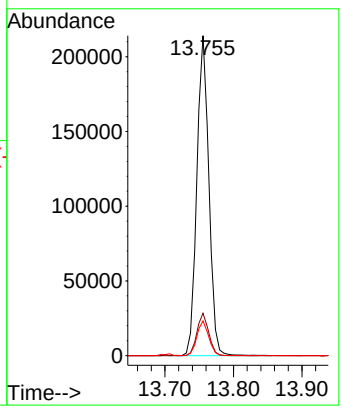




#95
Naphthalene
Concen: 40.307 ug/l
RT: 13.755 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:128 Resp: 26154

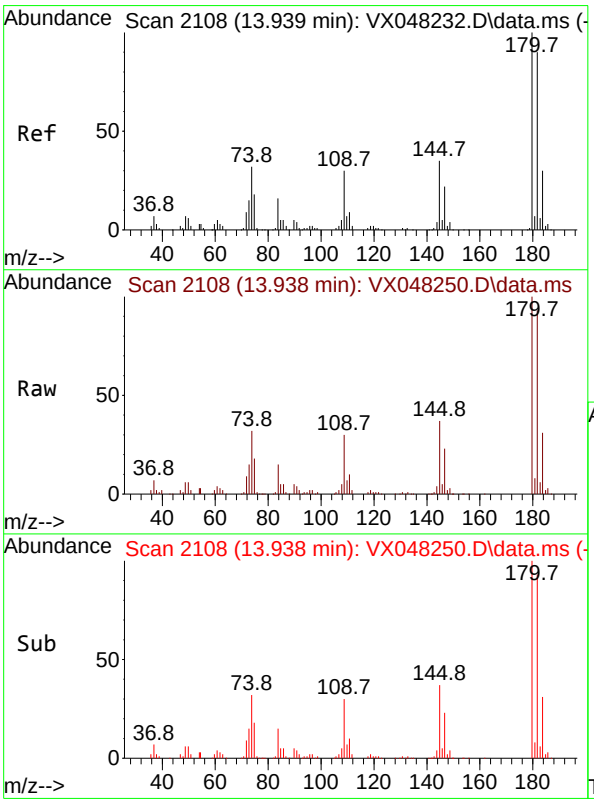
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.4
129	10.7	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

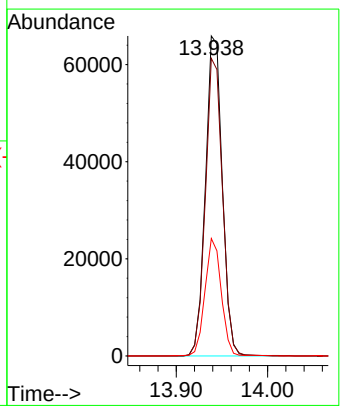
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 37.421 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:180 Resp: 84101

Ion	Ratio	Lower	Upper
180	100		
182	94.3	46.6	139.7
145	35.7	16.9	50.7



Evaluate Continuing Calibration Report

Sample Results: **VX048250.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048250.D
Acq On : 20 Oct 2025 19:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 21 06:16:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	112	0.00
2	T	Dichlorodifluoromethane	0.514	0.390	24.1	91	0.00
3	P	Chloromethane	0.480	0.382	20.4	95	0.00
4	C	Vinyl Chloride	0.444	0.366	17.6#	98	0.00
5	T	Bromomethane	0.302	0.257	14.9	102	0.00
6	T	Chloroethane	0.261	0.226	13.4	103	0.00
7	T	Trichlorofluoromethane	0.852	0.698	18.1	97	0.00
8	T	Diethyl Ether	0.240	0.216	10.0	109	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.540	0.436	19.3	98	0.00
10	T	Methyl Iodide	0.678	0.603	11.1	102	0.00
11	T	Tert butyl alcohol	0.070	0.054	22.9	99	0.00
12	CM	1,1-Dichloroethene	0.525	0.438	16.6#	101	0.00
13	T	Acrolein	0.071	0.061	14.1	105	0.00
14	T	Allyl chloride	0.872	0.740	15.1	103	0.00
15	T	Acrylonitrile	0.251	0.225	10.4	105	0.00
16	T	Acetone	0.240	0.168	30.0#	93	0.00
17	T	Carbon Disulfide	1.654	1.268	23.3	99	0.00
18	T	Methyl Acetate	0.502	0.453	9.8	109	0.00
19	T	Methyl tert-butyl Ether	1.791	1.597	10.8	105	0.00
20	T	Methylene Chloride	0.586	0.524	10.6	107	0.00
21	T	trans-1,2-Dichloroethene	0.577	0.499	13.5	104	0.00
22	T	Diisopropyl ether	1.738	1.598	8.1	108	0.00
23	T	Vinyl Acetate	1.389	1.285	7.5	107	0.00
24	P	1,1-Dichloroethane	1.051	0.916	12.8	105	0.00
25	T	2-Butanone	0.304	0.257	15.5	102	0.00
26	T	2,2-Dichloropropane	0.949	0.742	21.8	95	0.00
27	T	cis-1,2-Dichloroethene	0.673	0.594	11.7	106	0.00
28	T	Bromochloromethane	0.436	0.446	-2.3	113	0.00
29	T	Tetrahydrofuran	0.182	0.164	9.9	107	0.00
30	C	Chloroform	1.123	0.970	13.6#	104	0.00
31	T	Cyclohexane	0.870	0.750	13.8	102	0.00
32	T	1,1,1-Trichloroethane	1.035	0.882	14.8	102	0.00
33	S	1,2-Dichloroethane-d4	0.701	0.653	6.8	107	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	118	0.00
35	S	Dibromofluoromethane	0.341	0.312	8.5	111	0.00
36	T	1,1-Dichloropropene	0.485	0.383	21.0	104	0.00
37	T	Ethyl Acetate	0.402	0.323	19.7	104	0.00
38	T	Carbon Tetrachloride	0.599	0.454	24.2	97	0.00
39	T	Methylcyclohexane	0.573	0.450	21.5	98	0.00
40	TM	Benzene	1.409	1.178	16.4	107	0.00
41	T	Methacrylonitrile	0.211	0.180	14.7	104	0.00
42	TM	1,2-Dichloroethane	0.520	0.431	17.1	102	0.00
43	T	Isopropyl Acetate	0.661	0.560	15.3	104	0.00
44	TM	Trichloroethene	0.372	0.306	17.7	103	0.00
45	C	1,2-Dichloropropane	0.335	0.289	13.7#	106	0.00
46	T	Dibromomethane	0.261	0.221	15.3	105	0.00
47	T	Bromodichloromethane	0.563	0.468	16.9	102	0.00
48	T	Methyl methacrylate	0.333	0.284	14.7	104	0.00

Sample Results: **VX048250.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048250.D
Acq On : 20 Oct 2025 19:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 21 06:16:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	0.004	0.004	0.0	95	0.00
50	S	Toluene-d8	1.196	1.070	10.5	106	0.00
51	T	4-Methyl-2-Pentanone	0.381	0.326	14.4	102	0.00
52	CM	Toluene	0.895	0.741	17.2#	101	0.00
53	T	t-1,3-Dichloropropene	0.543	0.460	15.3	100	0.00
54	T	cis-1,3-Dichloropropene	0.586	0.492	16.0	101	0.00
55	T	1,1,2-Trichloroethane	0.333	0.282	15.3	104	0.00
56	T	Ethyl methacrylate	0.487	0.433	11.1	104	0.00
57	T	1,3-Dichloropropane	0.568	0.485	14.6	104	0.00
58	T	2-Chloroethyl Vinyl ether	0.232	0.224	3.4	101	0.00
59	T	2-Hexanone	0.266	0.224	15.8	99	0.00
60	T	Dibromochloromethane	0.447	0.366	18.1	101	0.00
61	T	1,2-Dibromoethane	0.355	0.301	15.2	104	0.00
62	S	4-Bromofluorobenzene	0.455	0.424	6.8	113	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	121	0.00
64	T	Tetrachloroethene	0.373	0.280	24.9	103	0.00
65	PM	Chlorobenzene	1.125	0.895	20.4	103	0.00
66	T	1,1,1,2-Tetrachloroethane	0.413	0.328	20.6	101	0.00
67	C	Ethyl Benzene	1.915	1.531	20.1#	101	0.00
68	T	m/p-Xylenes	0.712	0.582	18.3	102	0.00
69	T	o-Xylene	0.687	0.558	18.8	101	0.00
70	T	Styrene	1.170	0.976	16.6	103	0.00
71	P	Bromoform	0.330	0.259	21.5	101	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	121	0.00
73	T	Isopropylbenzene	3.652	2.868	21.5	101	0.00
74	T	N-amyl acetate	1.295	1.088	16.0	105	0.00
75	P	1,1,2,2-Tetrachloroethane	0.997	0.804	19.4	102	0.00
76	T	1,2,3-Trichloropropane	0.811	0.730	10.0	120	0.00
77	T	Bromobenzene	0.916	0.735	19.8	103	0.00
78	T	n-propylbenzene	4.228	3.363	20.5	101	0.00
79	T	2-Chlorotoluene	2.564	2.039	20.5	103	0.00
80	T	1,3,5-Trimethylbenzene	3.022	2.396	20.7	101	0.00
81	T	trans-1,4-Dichloro-2-butene	0.333	0.258	22.5	98	0.00
82	T	4-Chlorotoluene	3.043	2.414	20.7	101	0.00
83	T	tert-Butylbenzene	3.105	2.455	20.9	102	0.00
84	T	1,2,4-Trimethylbenzene	3.016	2.425	19.6	102	0.00
85	T	sec-Butylbenzene	3.736	2.881	22.9	100	0.00
86	T	p-Isopropyltoluene	3.229	2.467	23.6	100	0.00
87	T	1,3-Dichlorobenzene	1.726	1.338	22.5	104	0.00
88	T	1,4-Dichlorobenzene	1.788	1.344	24.8	103	0.00
89	T	n-Butylbenzene	2.939	2.180	25.8#	100	0.00
90	T	Hexachloroethane	0.638	0.464	27.3#	98	0.00
91	T	1,2-Dichlorobenzene	1.621	1.253	22.7	101	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.202	0.163	19.3	101	0.00
93	T	1,2,4-Trichlorobenzene	1.096	0.800	27.0#	101	0.00
94	T	Hexachlorobutadiene	0.507	0.290	42.8#	94	0.00
95	T	Naphthalene	2.904	2.341	19.4	102	0.00

Sample Results: **VX048250.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048250.D
Acq On : 20 Oct 2025 19:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 21 06:16:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	0.753	25.1#	100	0.00

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

Sample Results: **VX048250.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048250.D
Acq On : 20 Oct 2025 19:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 21 06:16:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	112	0.00
2	T	Dichlorodifluoromethane	50.000	37.949	24.1	91	0.00
3	P	Chloromethane	50.000	39.799	20.4	95	0.00
4	C	Vinyl Chloride	50.000	41.136	17.7#	98	0.00
5	T	Bromomethane	50.000	42.601	14.8	102	0.00
6	T	Chloroethane	50.000	43.378	13.2	103	0.00
7	T	Trichlorofluoromethane	50.000	40.982	18.0	97	0.00
8	T	Diethyl Ether	50.000	44.968	10.1	109	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	40.443	19.1	98	0.00
10	T	Methyl Iodide	50.000	44.441	11.1	102	0.00
11	T	Tert butyl alcohol	250.000	195.385	21.8	99	0.00
12	CM	1,1-Dichloroethene	50.000	41.727	16.5#	101	0.00
13	T	Acrolein	250.000	214.491	14.2	105	0.00
14	T	Allyl chloride	50.000	42.467	15.1	103	0.00
15	T	Acrylonitrile	250.000	223.753	10.5	105	0.00
16	T	Acetone	250.000	175.130	29.9#	93	0.00
17	T	Carbon Disulfide	50.000	38.329	23.3	99	0.00
18	T	Methyl Acetate	50.000	45.112	9.8	109	0.00
19	T	Methyl tert-butyl Ether	50.000	44.595	10.8	105	0.00
20	T	Methylene Chloride	50.000	44.720	10.6	107	0.00
21	T	trans-1,2-Dichloroethene	50.000	43.228	13.5	104	0.00
22	T	Diisopropyl ether	50.000	45.952	8.1	108	0.00
23	T	Vinyl Acetate	250.000	231.296	7.5	107	0.00
24	P	1,1-Dichloroethane	50.000	43.578	12.8	105	0.00
25	T	2-Butanone	250.000	210.709	15.7	102	0.00
26	T	2,2-Dichloropropane	50.000	39.096	21.8	95	0.00
27	T	cis-1,2-Dichloroethene	50.000	44.159	11.7	106	0.00
28	T	Bromochloromethane	50.000	51.151	-2.3	113	0.00
29	T	Tetrahydrofuran	250.000	224.351	10.3	107	0.00
30	C	Chloroform	50.000	43.198	13.6#	104	0.00
31	T	Cyclohexane	50.000	43.114	13.8	102	0.00
32	T	1,1,1-Trichloroethane	50.000	42.592	14.8	102	0.00
33	S	1,2-Dichloroethane-d4	50.000	46.542	6.9	107	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	118	0.00
35	S	Dibromofluoromethane	50.000	45.636	8.7	111	0.00
36	T	1,1-Dichloropropene	50.000	39.469	21.1	104	0.00
37	T	Ethyl Acetate	50.000	40.173	19.7	104	0.00
38	T	Carbon Tetrachloride	50.000	37.895	24.2	97	0.00
39	T	Methylcyclohexane	50.000	39.300	21.4	98	0.00
40	TM	Benzene	50.000	41.821	16.4	107	0.00
41	T	Methacrylonitrile	50.000	42.726	14.5	104	0.00
42	TM	1,2-Dichloroethane	50.000	41.460	17.1	102	0.00
43	T	Isopropyl Acetate	50.000	42.401	15.2	104	0.00
44	TM	Trichloroethene	50.000	41.075	17.8	103	0.00
45	C	1,2-Dichloropropane	50.000	43.200	13.6#	106	0.00
46	T	Dibromomethane	50.000	42.277	15.4	105	0.00
47	T	Bromodichloromethane	50.000	41.521	17.0	102	0.00
48	T	Methyl methacrylate	50.000	42.595	14.8	104	0.00

Sample Results: **VX048250.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048250.D
Acq On : 20 Oct 2025 19:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 21 06:16:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	807.374	19.3	95	0.00
50	S	Toluene-d8	50.000	44.713	10.6	106	0.00
51	T	4-Methyl-2-Pentanone	250.000	213.772	14.5	102	0.00
52	CM	Toluene	50.000	41.403	17.2#	101	0.00
53	T	t-1,3-Dichloropropene	50.000	42.344	15.3	100	0.00
54	T	cis-1,3-Dichloropropene	50.000	41.966	16.1	101	0.00
55	T	1,1,2-Trichloroethane	50.000	42.431	15.1	104	0.00
56	T	Ethyl methacrylate	50.000	44.462	11.1	104	0.00
57	T	1,3-Dichloropropane	50.000	42.655	14.7	104	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	213.796	14.5	101	0.00
59	T	2-Hexanone	250.000	211.078	15.6	99	0.00
60	T	Dibromochloromethane	50.000	40.872	18.3	101	0.00
61	T	1,2-Dibromoethane	50.000	42.360	15.3	104	0.00
62	S	4-Bromofluorobenzene	50.000	46.587	6.8	113	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	121	0.00
64	T	Tetrachloroethene	50.000	37.463	25.1#	103	0.00
65	PM	Chlorobenzene	50.000	39.787	20.4	103	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	39.651	20.7	101	0.00
67	C	Ethyl Benzene	50.000	39.962	20.1#	101	0.00
68	T	m/p-Xylenes	100.000	81.737	18.3	102	0.00
69	T	o-Xylene	50.000	40.619	18.8	101	0.00
70	T	Styrene	50.000	41.732	16.5	103	0.00
71	P	Bromoform	50.000	39.184	21.6	101	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	121	0.00
73	T	Isopropylbenzene	50.000	39.266	21.5	101	0.00
74	T	N-amyl acetate	50.000	41.983	16.0	105	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	40.326	19.3	102	0.00
76	T	1,2,3-Trichloropropane	50.000	44.991	10.0	120	0.00
77	T	Bromobenzene	50.000	40.142	19.7	103	0.00
78	T	n-propylbenzene	50.000	39.766	20.5	101	0.00
79	T	2-Chlorotoluene	50.000	39.772	20.5	103	0.00
80	T	1,3,5-Trimethylbenzene	50.000	39.638	20.7	101	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	38.739	22.5	98	0.00
82	T	4-Chlorotoluene	50.000	39.656	20.7	101	0.00
83	T	tert-Butylbenzene	50.000	39.532	20.9	102	0.00
84	T	1,2,4-Trimethylbenzene	50.000	40.199	19.6	102	0.00
85	T	sec-Butylbenzene	50.000	38.565	22.9	100	0.00
86	T	p-Isopropyltoluene	50.000	38.201	23.6	100	0.00
87	T	1,3-Dichlorobenzene	50.000	38.747	22.5	104	0.00
88	T	1,4-Dichlorobenzene	50.000	37.584	24.8	103	0.00
89	T	n-Butylbenzene	50.000	37.088	25.8#	100	0.00
90	T	Hexachloroethane	50.000	36.415	27.2#	98	0.00
91	T	1,2-Dichlorobenzene	50.000	38.670	22.7	101	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	40.157	19.7	101	0.00
93	T	1,2,4-Trichlorobenzene	50.000	36.492	27.0#	101	0.00
94	T	Hexachlorobutadiene	50.000	35.315	29.4#	94	0.00
95	T	Naphthalene	50.000	40.307	19.4	102	0.00

Sample Results: **VX048250.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048250.D
Acq On : 20 Oct 2025 19:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 21 06:16:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	37.421	25.2# 100	0.00

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

Raw Data: **VX048252.D**

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	TETR06
Lab Code:	ACE	SDG No.:	Q3371
Instrument ID:	MSVOA_X	Calibration Date/Time:	10/21/2025 08:43
Lab File ID:	VX048252.D	Init. Calib. Date(s):	10/20/2025 10/20/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	10:59 13:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.514	0.496		-3.5	20
Chloromethane	0.480	0.468	0.1	-2.5	20
Vinyl Chloride	0.444	0.448		0.9	20
Bromomethane	0.302	0.299		-0.99	20
Chloroethane	0.261	0.261		0	20
Trichlorofluoromethane	0.852	0.813		-4.58	20
1,1,2-Trichlorotrifluoroethane	0.540	0.513		-5	20
1,1-Dichloroethene	0.525	0.498		-5.14	20
Acetone	0.240	0.230		-4.17	20
Carbon Disulfide	1.654	1.439		-13	20
Methyl tert-butyl Ether	1.791	1.576		-12	20
Methyl Acetate	0.502	0.411		-18.13	20
Methylene Chloride	0.586	0.556		-5.12	20
trans-1,2-Dichloroethene	0.577	0.538		-6.76	20
1,1-Dichloroethane	1.051	0.952	0.1	-9.42	20
Cyclohexane	0.870	0.788		-9.43	20
2-Butanone	0.304	0.260		-14.47	20
Carbon Tetrachloride	0.599	0.533		-11.02	20
cis-1,2-Dichloroethene	0.673	0.610		-9.36	20
Bromochloromethane	0.436	0.435		-0.23	20
Chloroform	1.123	1.006		-10.42	20
1,1,1-Trichloroethane	1.035	0.920		-11.11	20
Methylcyclohexane	0.573	0.510		-10.99	20
Benzene	1.409	1.280		-9.15	20
1,2-Dichloroethane	0.520	0.466		-10.39	20
Trichloroethene	0.372	0.337		-9.41	20
1,2-Dichloropropane	0.335	0.305		-8.95	20
Bromodichloromethane	0.563	0.510		-9.41	20
4-Methyl-2-Pentanone	0.381	0.302		-20.74	20
Toluene	0.895	0.795		-11.17	20
t-1,3-Dichloropropene	0.543	0.493		-9.21	20
cis-1,3-Dichloropropene	0.586	0.529		-9.73	20
1,1,2-Trichloroethane	0.333	0.291		-12.61	20
2-Hexanone	0.266	0.227		-14.66	20
Dibromochloromethane	0.447	0.388		-13.2	20
1,2-Dibromoethane	0.355	0.307		-13.52	20
Tetrachloroethene	0.373	0.325		-12.87	20
Chlorobenzene	1.125	1.025	0.3	-8.89	20

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

Raw Data: **VX048252.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: TETR06
Lab Code: ACE
SDG No.: Q3371
Instrument ID: MSVOA_X
Calibration Date/Time: 10/21/2025 08:43
Lab File ID: VX048252.D
Init. Calib. Date(s): 10/20/2025 10/20/2025
Heated Purge: (Y/N) N
Init. Calib. Time(s): 10:59 13:49
GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.915	1.738		-9.24	20
m/p-Xylenes	0.712	0.666		-6.46	20
o-Xylene	0.687	0.625		-9.02	20
Styrene	1.170	1.107		-5.39	20
Bromoform	0.330	0.283	0.1	-14.24	20
Isopropylbenzene	3.652	3.379		-7.47	20
1,1,2,2-Tetrachloroethane	0.997	0.857	0.3	-14.04	20
1,3-Dichlorobenzene	1.726	1.555		-9.91	20
1,4-Dichlorobenzene	1.788	1.551		-13.26	20
1,2-Dichlorobenzene	1.621	1.416		-12.65	20
1,2-Dibromo-3-Chloropropane	0.202	0.163		-19.31	20
1,2,4-Trichlorobenzene	1.096	0.885		-19.25	20
1,2,3-Trichlorobenzene	1.006	0.834		-17.1	20
1,2-Dichloroethane-d4	0.701	0.658		-6.13	20
Dibromofluoromethane	0.341	0.340		-0.29	20
Toluene-d8	1.196	1.150		-3.85	20
4-Bromofluorobenzene	0.455	0.419		-7.91	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048252.D
Acq On : 21 Oct 2025 08:43
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 24 04:21:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.531	168	144122	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.738	114	227103	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	197016	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	96991	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	94847	46.938	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 93.880%			
35) Dibromofluoromethane	5.361	113	77279	49.844	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.680%			
50) Toluene-d8	8.628	98	261228	48.070	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 96.140%			
62) 4-Bromofluorobenzene	11.061	95	95248	46.072	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 92.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	71433	48.214	ug/l	96
3) Chloromethane	1.300	50	67413	48.746	ug/l	98
4) Vinyl Chloride	1.380	62	64624	50.463	ug/l	99
5) Bromomethane	1.617	94	43146	49.645	ug/l	97
6) Chloroethane	1.697	64	37653	50.036	ug/l	90
7) Trichlorofluoromethane	1.898	101	117120	47.687	ug/l	99
8) Diethyl Ether	2.129	74	32474	46.991	ug/l	90
9) 1,1,2-Trichlorotrifluo...	2.331	101	73938	47.541	ug/l	96
10) Methyl Iodide	2.453	142	89481	45.766	ug/l	100
11) Tert butyl alcohol	2.934	59	34686	172.886	ug/l	98
12) 1,1-Dichloroethene	2.325	96	71745	47.416	ug/l	88
13) Acrolein	2.233	56	55830	272.848	ug/l	99
14) Allyl chloride	2.666	41	114538	45.594	ug/l	97
15) Acrylonitrile	3.050	53	152721	211.101	ug/l	99
16) Acetone	2.367	43	166093	239.598	ug/l	95
17) Carbon Disulfide	2.514	76	207386	43.489	ug/l	100
18) Methyl Acetate	2.696	43	59246	40.924	ug/l	94
19) Methyl tert-butyl Ether	3.099	73	227127	44.001	ug/l	97
20) Methylene Chloride	2.788	84	80164	47.460	ug/l	92
21) trans-1,2-Dichloroethene	3.087	96	77587	46.681	ug/l	97
22) Diisopropyl ether	3.745	45	232684	46.439	ug/l	95
23) Vinyl Acetate	3.708	43	904806	226.065	ug/l	98
24) 1,1-Dichloroethane	3.599	63	137234	45.296	ug/l	99
25) 2-Butanone	4.531	43	187588	213.793	ug/l	100
26) 2,2-Dichloropropane	4.458	77	122921	44.950	ug/l	100
27) cis-1,2-Dichloroethene	4.471	96	87886	45.309	ug/l	98
28) Bromochloromethane	4.879	49	62707	49.917	ug/l	86
29) Tetrahydrofuran	4.983	42	100043	190.379	ug/l	93
30) Chloroform	5.074	83	145033	44.807	ug/l	98
31) Cyclohexane	5.452	56	113590	45.286	ug/l	95
32) 1,1,1-Trichloroethane	5.361	97	132637	44.462	ug/l	98
36) 1,1-Dichloropropene	5.672	75	97868	44.412	ug/l	100
37) Ethyl Acetate	4.690	43	73825	40.418	ug/l	98
38) Carbon Tetrachloride	5.659	117	120960	44.491	ug/l	96
39) Methylcyclohexane	7.360	83	115804	44.497	ug/l	95
40) Benzene	6.013	78	290616	45.424	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048252.D
Acq On : 21 Oct 2025 08:43
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 24 04:21:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.891	41	40965	42.707	ug/l		96
42) 1,2-Dichloroethane	6.062	62	105747	44.791	ug/l		99
43) Isopropyl Acetate	6.318	43	122589	40.859	ug/l		95
44) Trichloroethene	7.104	130	76506	45.286	ug/l		92
45) 1,2-Dichloropropane	7.409	63	69342	45.586	ug/l		100
46) Dibromomethane	7.561	93	52913	44.649	ug/l		94
47) Bromodichloromethane	7.799	83	115823	45.265	ug/l		98
48) Methyl methacrylate	7.671	41	62073	41.000	ug/l		94
49) 1,4-Dioxane	7.641	88	15658	782.834	ug/l		92
51) 4-Methyl-2-Pentanone	8.555	43	343412	198.518	ug/l		95
52) Toluene	8.701	92	180638	44.443	ug/l		100
53) t-1,3-Dichloropropene	8.957	75	111868	45.367	ug/l		100
54) cis-1,3-Dichloropropene	8.348	75	120247	45.199	ug/l		94
55) 1,1,2-Trichloroethane	9.134	97	66141	43.758	ug/l		99
56) Ethyl methacrylate	9.098	69	94033	42.533	ug/l		94
57) 1,3-Dichloropropane	9.287	76	112894	43.726	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.220	63	253467	213.469	ug/l		95
59) 2-Hexanone	9.409	43	257988	213.881	ug/l		95
60) Dibromochloromethane	9.500	129	88005	43.319	ug/l		99
61) 1,2-Dibromoethane	9.592	107	69657	43.228	ug/l		98
64) Tetrachloroethene	9.256	164	64080	43.569	ug/l		98
65) Chlorobenzene	10.061	112	201952	45.568	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.140	131	73602	45.215	ug/l		98
67) Ethyl Benzene	10.177	91	342357	45.371	ug/l		98
68) m/p-Xylenes	10.280	106	262482	93.624	ug/l		98
69) o-Xylene	10.622	106	123116	45.486	ug/l		98
70) Styrene	10.634	104	218038	47.309	ug/l		100
71) Bromoform	10.780	173	55833	42.915	ug/l	#	99
73) Isopropylbenzene	10.945	105	327700	46.258	ug/l		100
74) N-amyl acetate	10.823	43	104260	41.490	ug/l		94
75) 1,1,2,2-Tetrachloroethane	11.195	83	83168	42.990	ug/l		99
76) 1,2,3-Trichloropropane	11.219	75	69389m	44.116	ug/l		
77) Bromobenzene	11.177	156	80981	45.589	ug/l		94
78) n-propylbenzene	11.286	91	383372	46.739	ug/l		98
79) 2-Chlorotoluene	11.347	91	226051	45.456	ug/l		98
80) 1,3,5-Trimethylbenzene	11.433	105	270132	46.077	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	27826	43.041	ug/l		98
82) 4-Chlorotoluene	11.433	91	271398	45.973	ug/l		98
83) tert-Butylbenzene	11.695	119	269543	44.748	ug/l		98
84) 1,2,4-Trimethylbenzene	11.731	105	270636	46.257	ug/l		99
85) sec-Butylbenzene	11.872	105	324459	44.772	ug/l		99
86) p-Isopropyltoluene	11.987	119	278806	44.510	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	150857	45.050	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	150468	43.374	ug/l		99
89) n-Butylbenzene	12.311	91	246692	43.269	ug/l		99
90) Hexachloroethane	12.518	117	53716	43.425	ug/l		96
91) 1,2-Dichlorobenzene	12.317	146	137387	43.698	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.920	75	15819	40.283	ug/l		100
93) 1,2,4-Trichlorobenzene	13.566	180	85831	40.369	ug/l		99
94) Hexachlorobutadiene	13.707	225	32869	41.267	ug/l		99
95) Naphthalene	13.755	128	233946	41.531	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	80863	41.446	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048252.D
Acq On : 21 Oct 2025 08:43
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

Quant Time: Oct 24 04:21:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

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

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

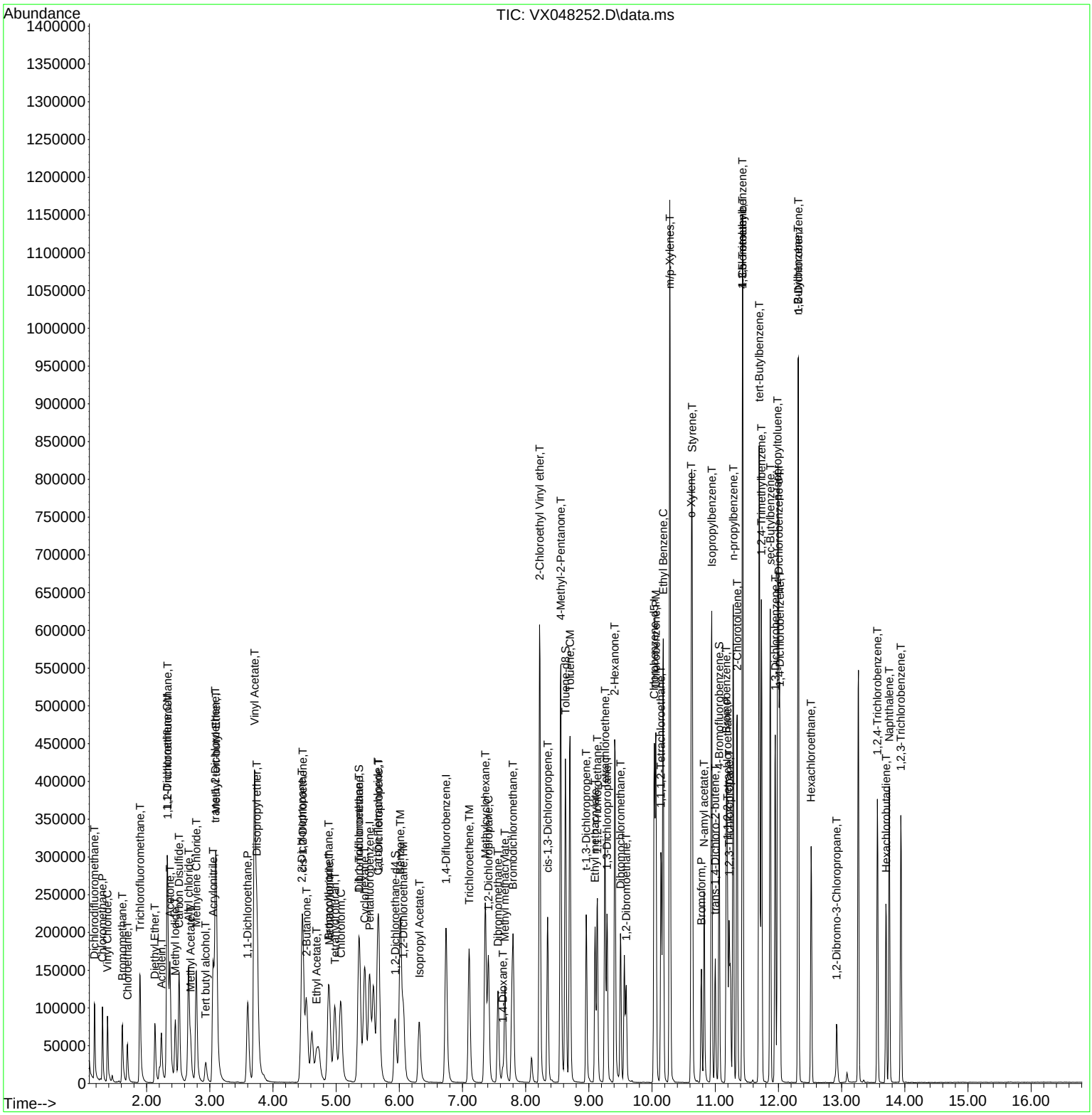
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048252.D
Acq On : 21 Oct 2025 08:43
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

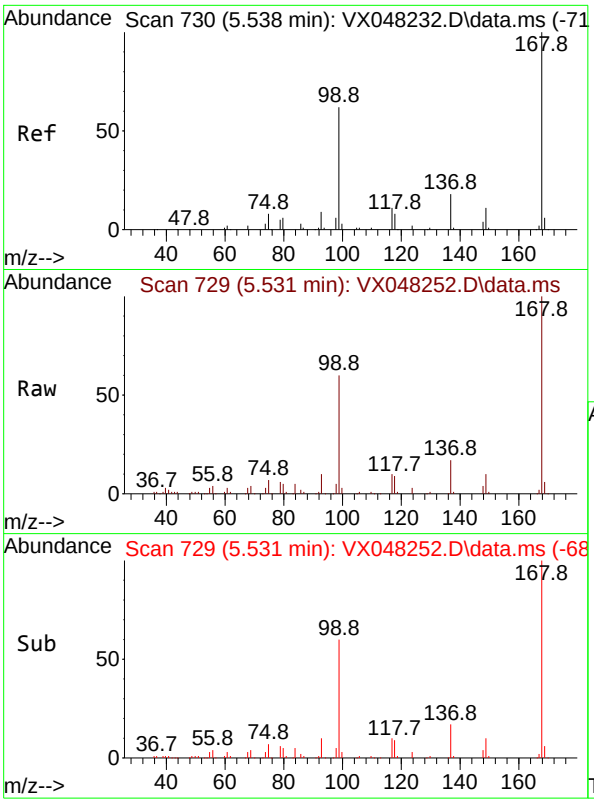
Quant Time: Oct 24 04:21:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

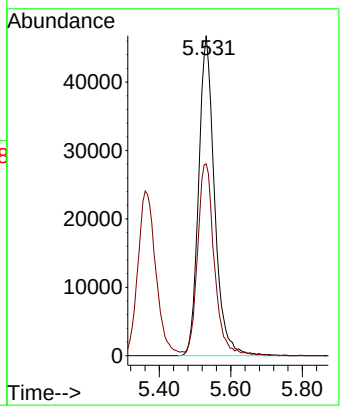




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 7
Delta R.T. -0.013 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:168 Resp: 14412

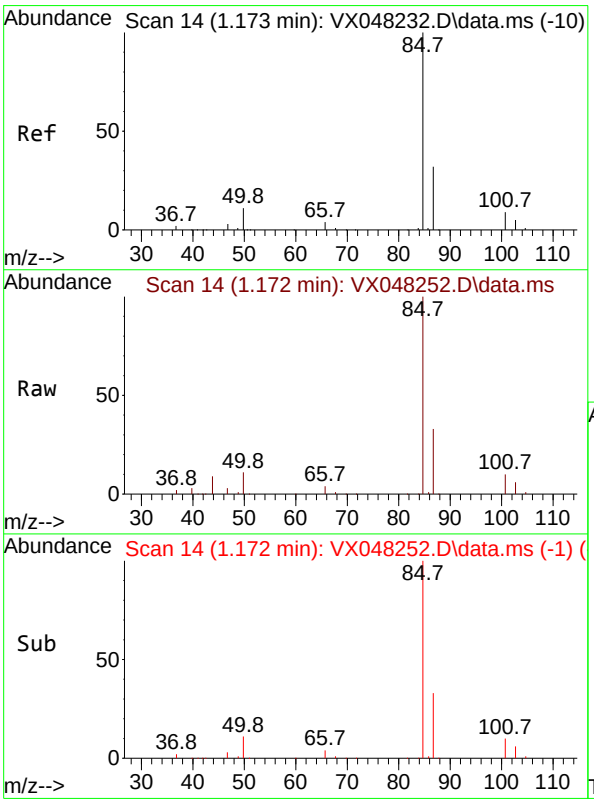
Ion	Ratio	Lower	Upper
168	100		
99	59.8	46.4	69.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

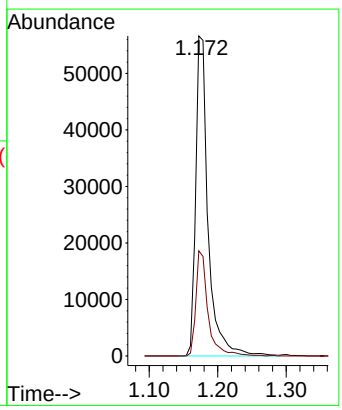
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

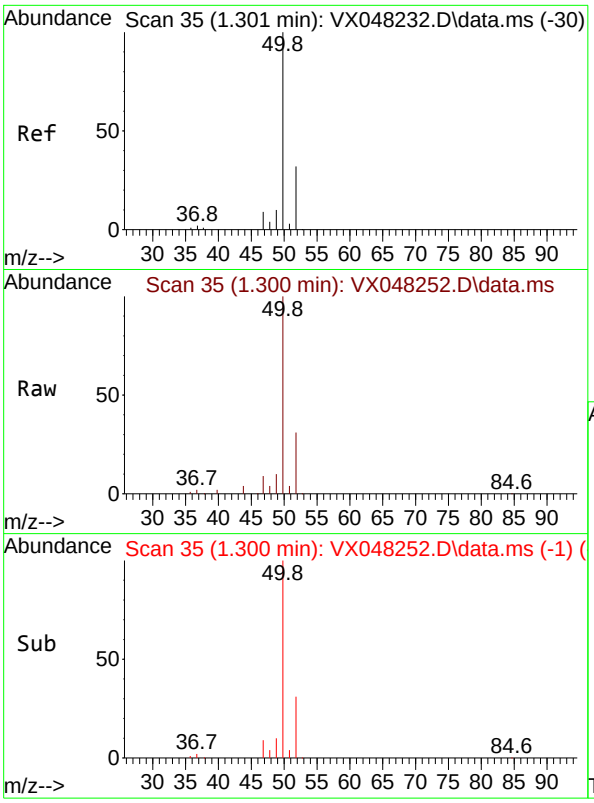


#2
Dichlorodifluoromethane
Concen: 48.214 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 85 Resp: 71433

Ion	Ratio	Lower	Upper
85	100		
87	32.9	15.3	45.9

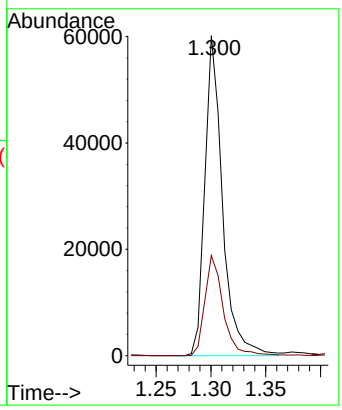




#3
Chloromethane
Concen: 48.746 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 50 Resp: 6741

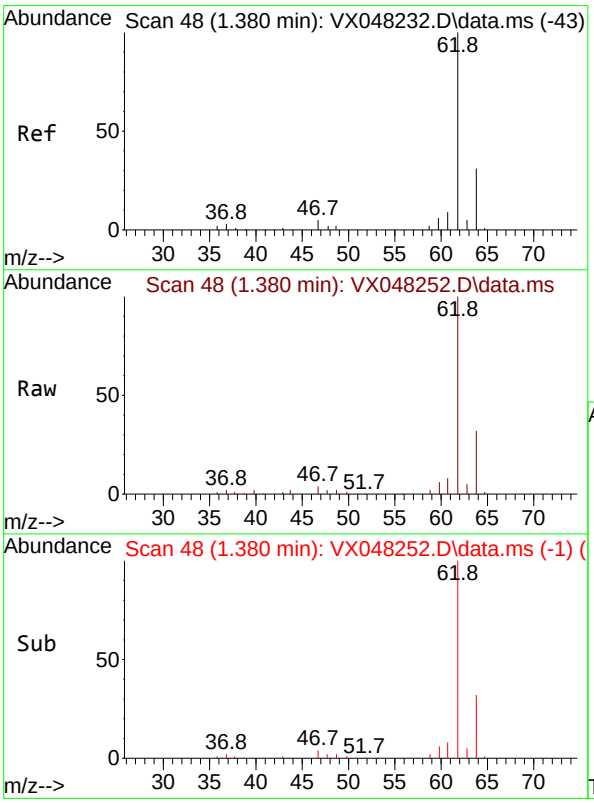
Ion	Ratio	Lower	Upper
50	100		
52	31.3	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

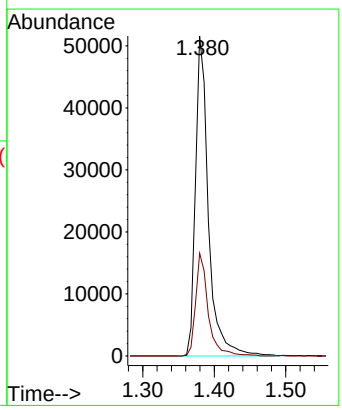
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

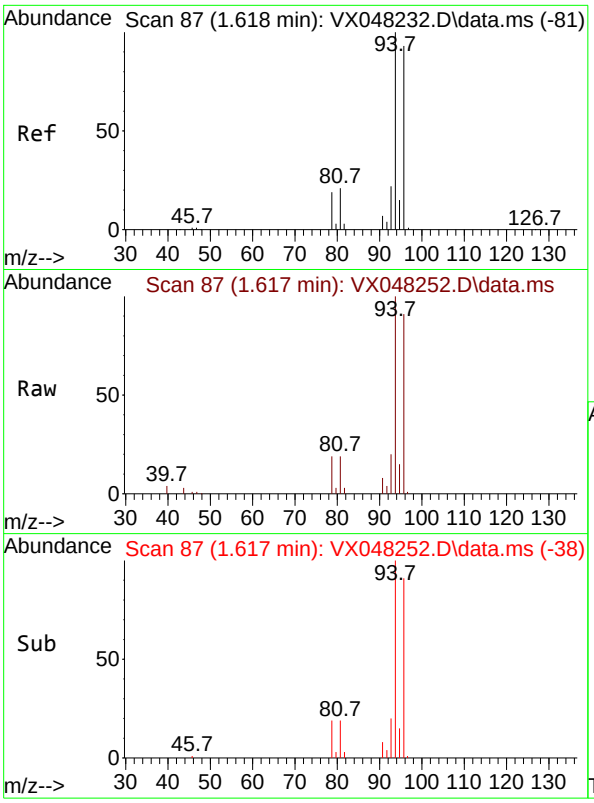


#4
Vinyl Chloride
Concen: 50.463 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 62 Resp: 64624

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.1	37.7





#5
Bromomethane
Concen: 49.645 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

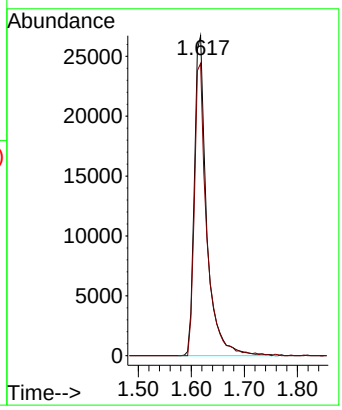
Tgt Ion: 94 Resp: 4314

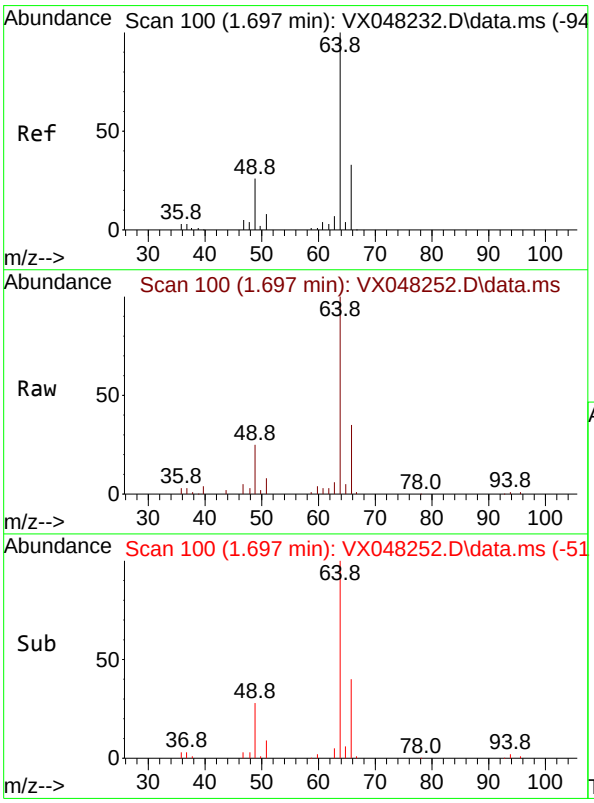
Ion	Ratio	Lower	Upper
94	100		
96	92.1	76.0	114.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

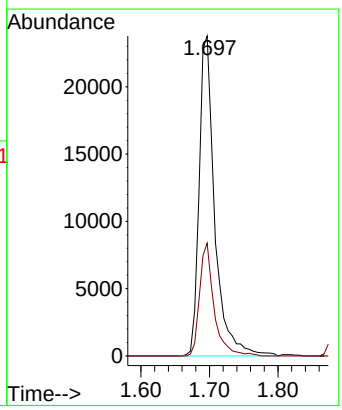


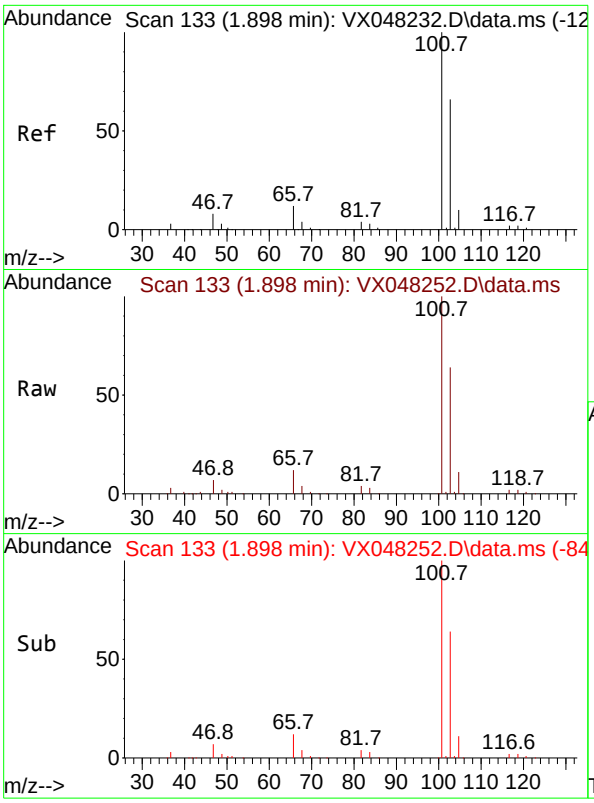


#6
Chloroethane
Concen: 50.036 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 64 Resp: 37653

Ion	Ratio	Lower	Upper
64	100		
66	35.2	23.9	35.9





#7
Trichlorofluoromethane
Concen: 47.687 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

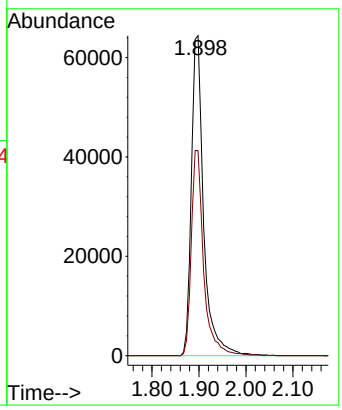
Tgt Ion:101 Resp: 11712

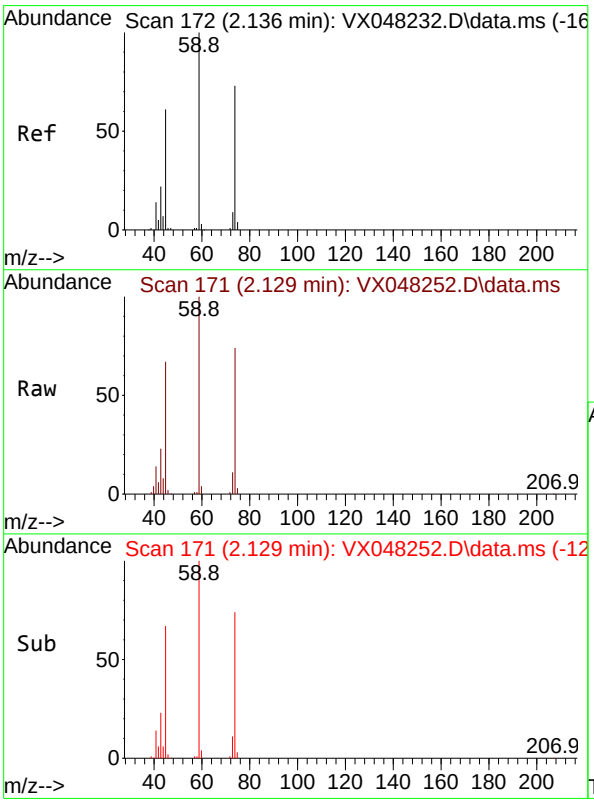
Ion	Ratio	Lower	Upper
101	100		
103	64.1	51.6	77.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

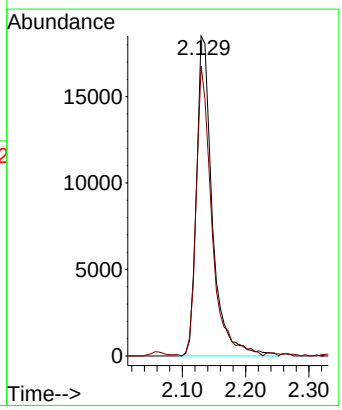


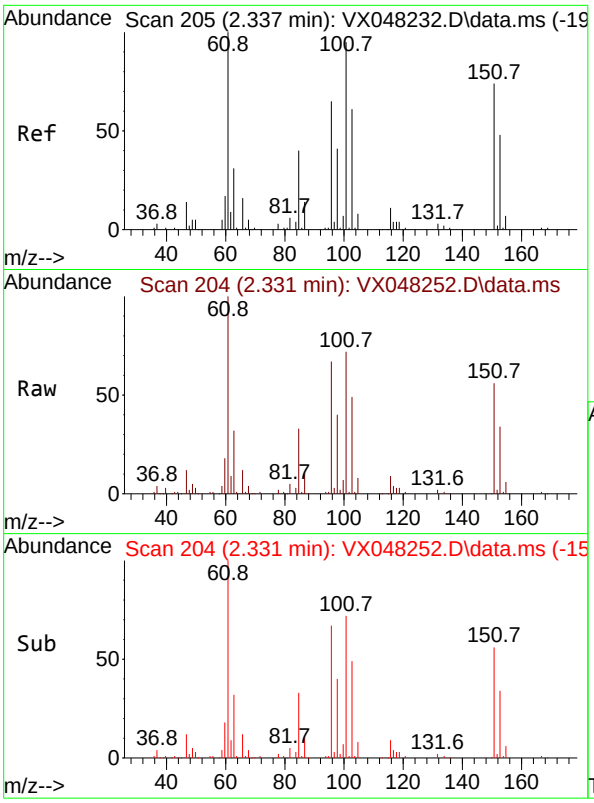


#8
Diethyl Ether
Concen: 46.991 ug/l
RT: 2.129 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 74 Resp: 32474

Ion	Ratio	Lower	Upper
74	100		
45	89.4	50.0	149.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.541 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

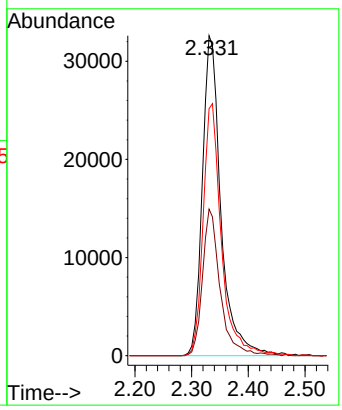
Tgt Ion:101 Resp: 7393

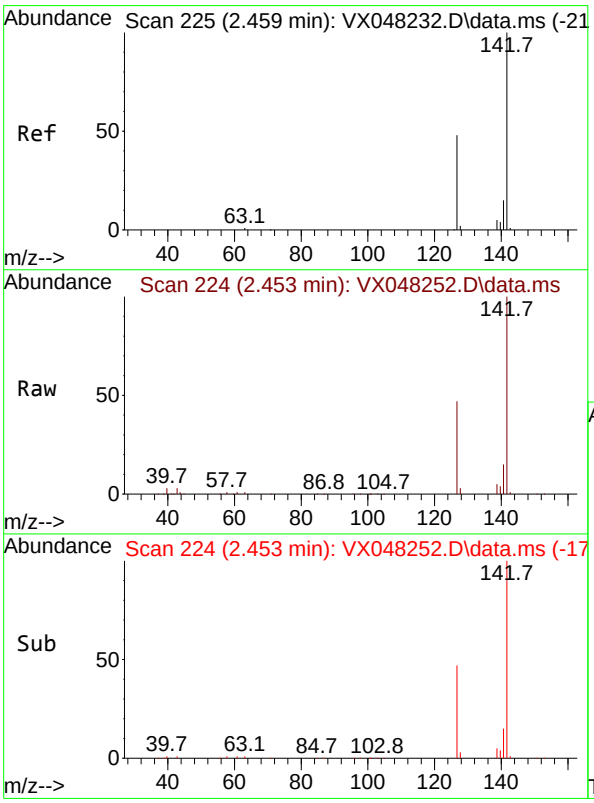
Ion	Ratio	Lower	Upper
101	100		
85	43.8	35.6	53.4
151	77.9	58.0	87.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

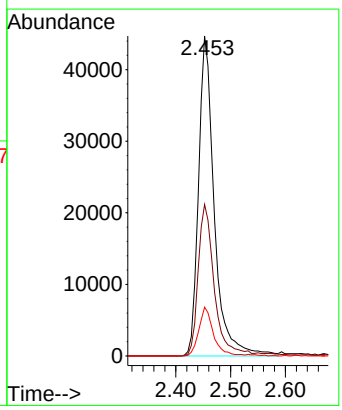


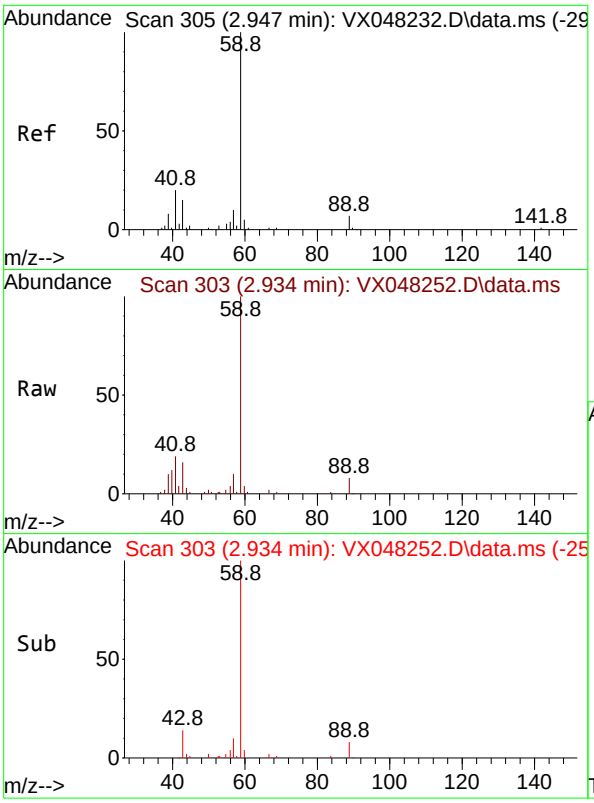


#10
Methyl Iodide
Concen: 45.766 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:142 Resp: 89481

Ion	Ratio	Lower	Upper
142	100		
127	48.1	38.5	57.7
141	14.1	11.6	17.4





#11
Tert butyl alcohol
Concen: 172.886 ug/l
RT: 2.934 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

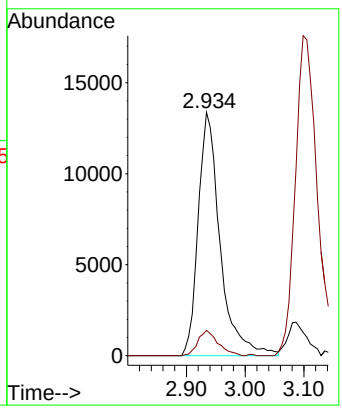
Tgt Ion: 59 Resp: 3468

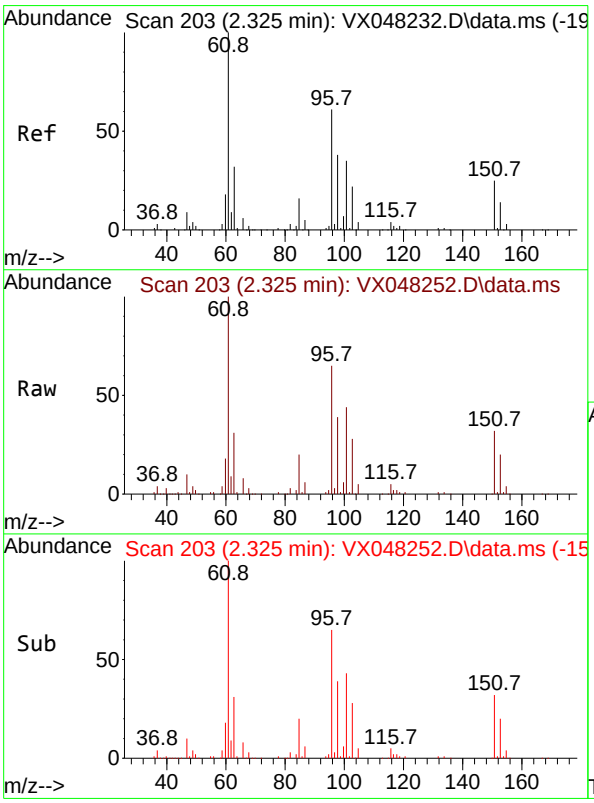
Ion	Ratio	Lower	Upper
59	100		
57	9.6	8.2	12.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

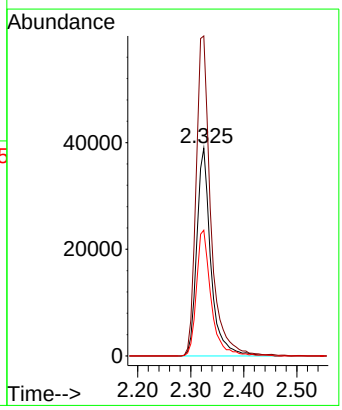


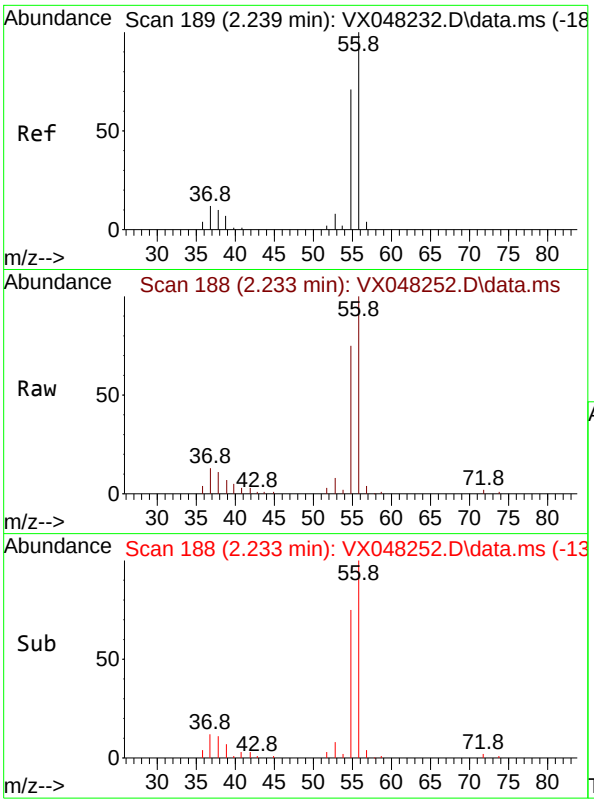


#12
1,1-Dichloroethene
Concen: 47.416 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 96 Resp: 71745

Ion	Ratio	Lower	Upper
96	100		
61	154.0	139.0	208.6
98	60.6	52.4	78.6

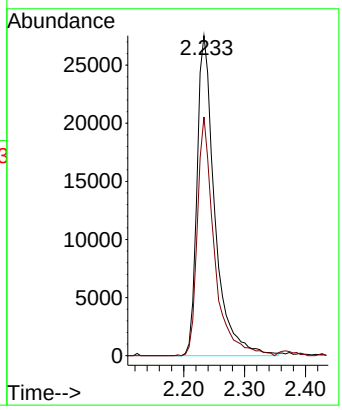




#13
Acrolein
Concen: 272.848 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 56 Resp: 5583

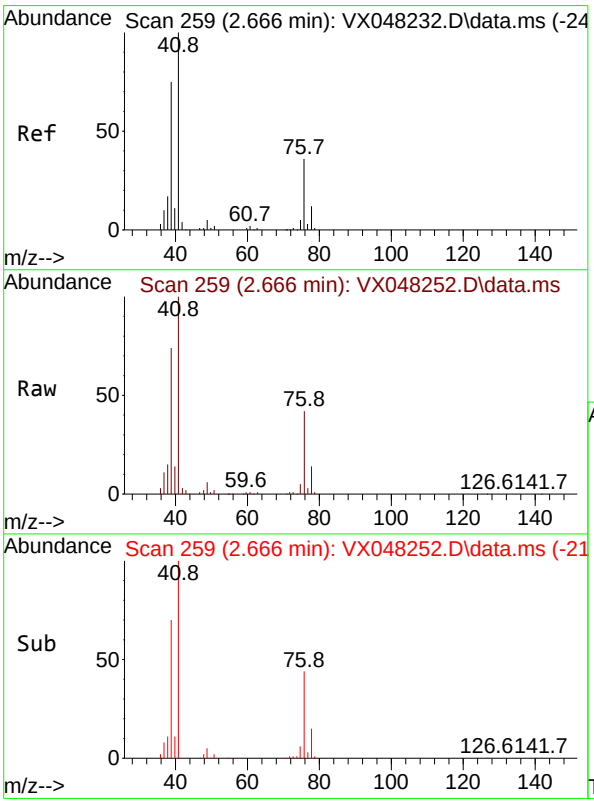
Ion	Ratio	Lower	Upper
56	100		
55	71.1	56.1	84.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

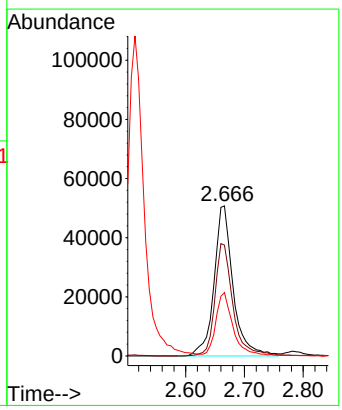
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

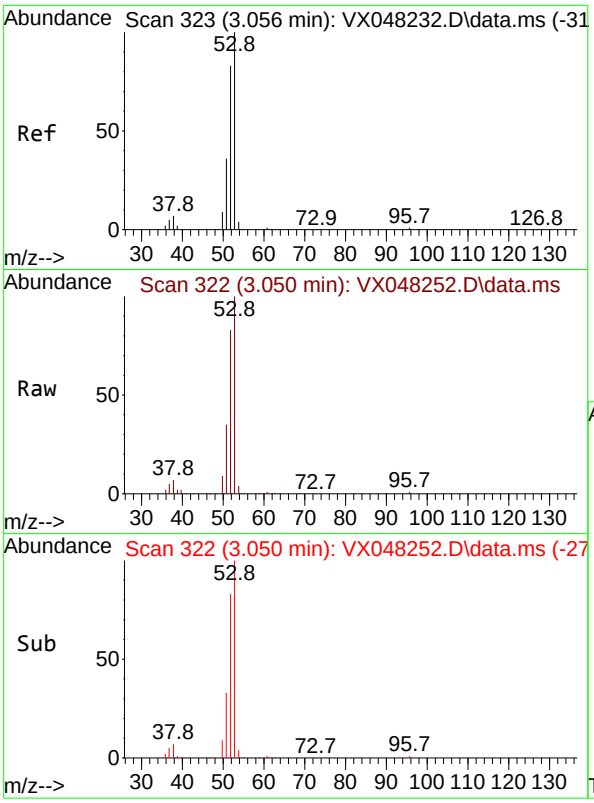


#14
Allyl chloride
Concen: 45.594 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 41 Resp: 114538

Ion	Ratio	Lower	Upper
41	100		
39	71.0	56.0	84.0
76	38.7	27.5	41.3

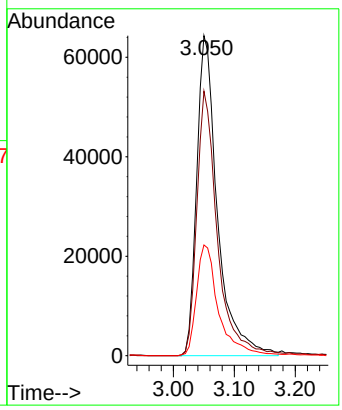




#15
Acrylonitrile
Concen: 211.101 ug/l
RT: 3.050 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 53 Resp: 15272

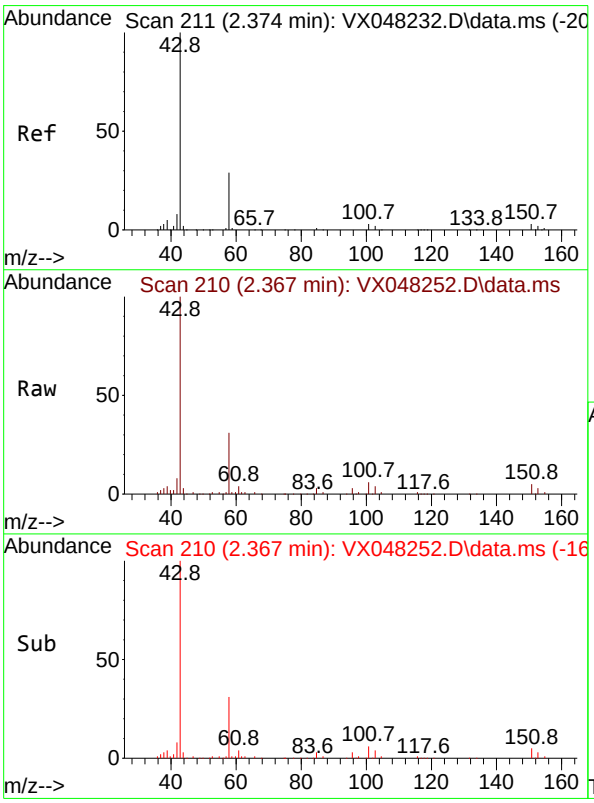
Ion	Ratio	Lower	Upper
53	100		
52	82.1	66.1	99.1
51	36.7	29.0	43.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

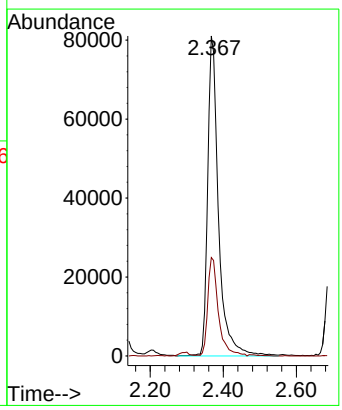
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

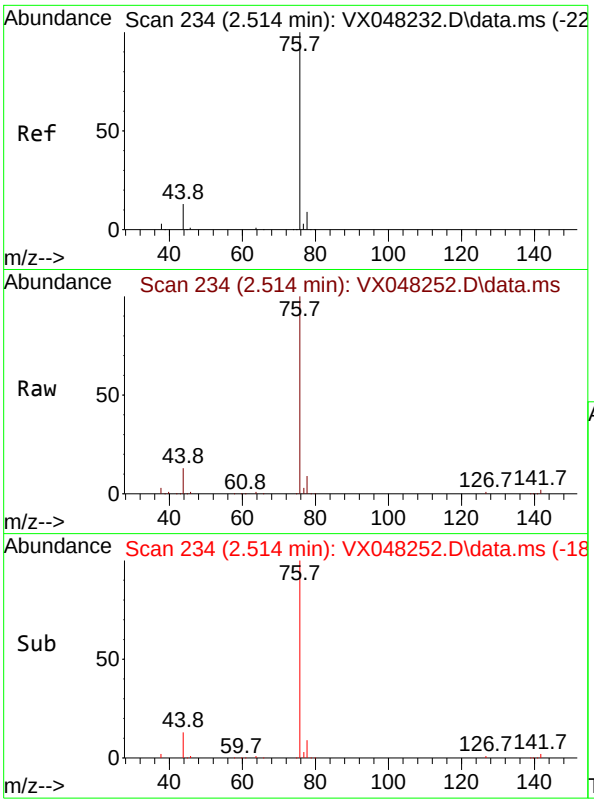


#16
Acetone
Concen: 239.598 ug/l
RT: 2.367 min Scan# 210
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 43 Resp: 166093

Ion	Ratio	Lower	Upper
43	100		
58	32.1	23.4	35.2





#17
Carbon Disulfide
Concen: 43.489 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

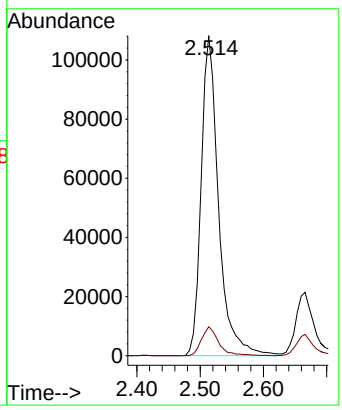
Tgt Ion: 76 Resp: 20738

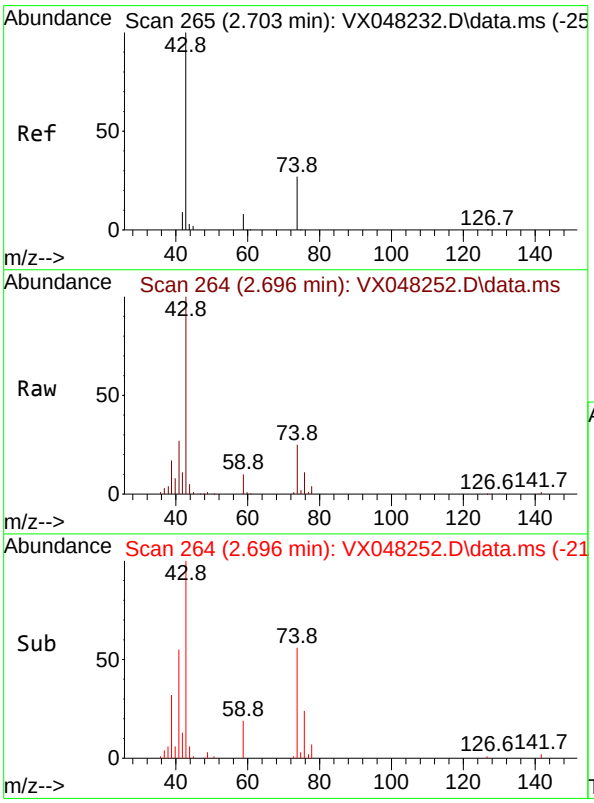
Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.1	10.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

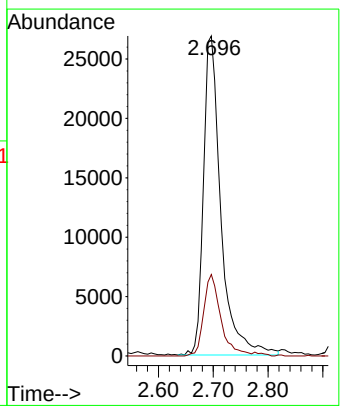


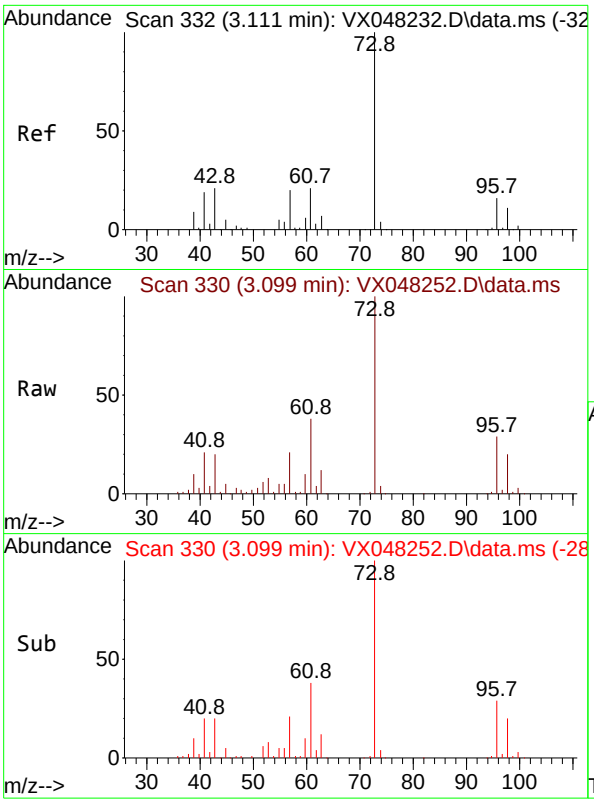


#18
Methyl Acetate
Concen: 40.924 ug/l
RT: 2.696 min Scan# 264
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 43 Resp: 59246

Ion	Ratio	Lower	Upper
43	100		
74	24.9	17.5	26.3

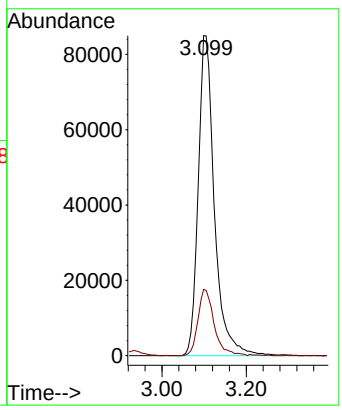




#19
Methyl tert-butyl Ether
Concen: 44.001 ug/l
RT: 3.099 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 73 Resp: 22712

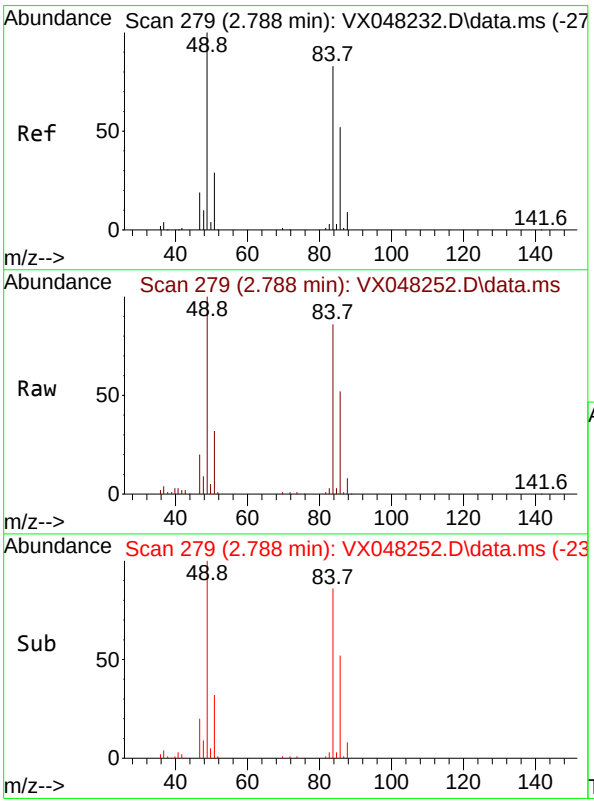
Ion	Ratio	Lower	Upper
73	100		
57	20.7	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

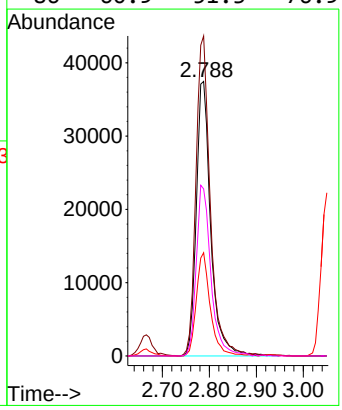
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

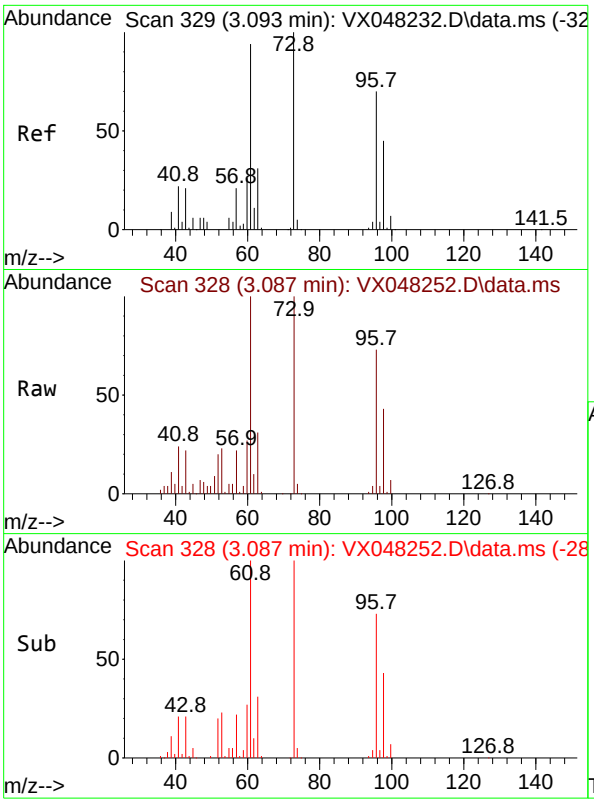


#20
Methylene Chloride
Concen: 47.460 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 84 Resp: 80164

Ion	Ratio	Lower	Upper
84	100		
49	116.6	104.1	156.1
51	37.6	31.3	46.9
86	60.9	51.3	76.9





#21
trans-1,2-Dichloroethene
Concen: 46.681 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

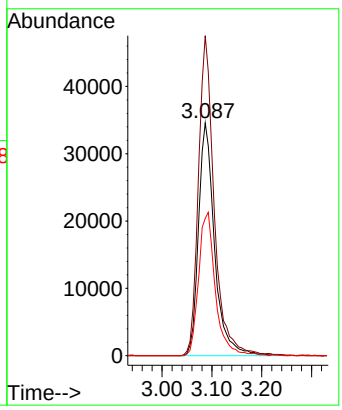
Tgt Ion: 96 Resp: 7758

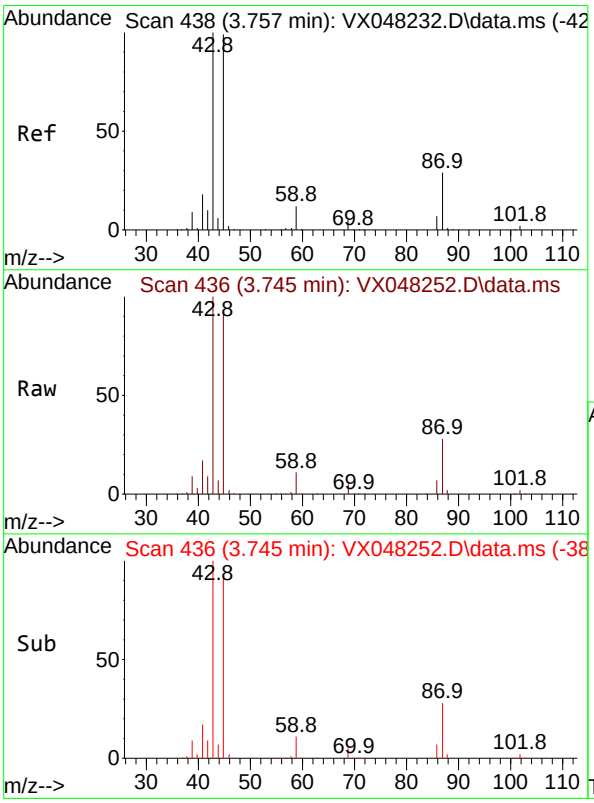
Ion	Ratio	Lower	Upper
96	100		
61	137.4	111.9	167.9
98	59.0	51.2	76.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

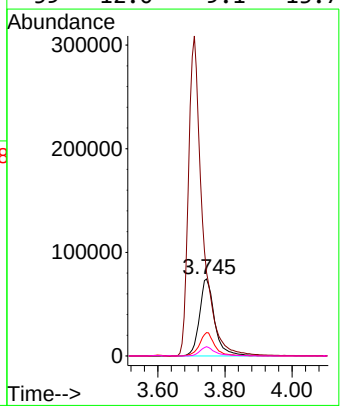


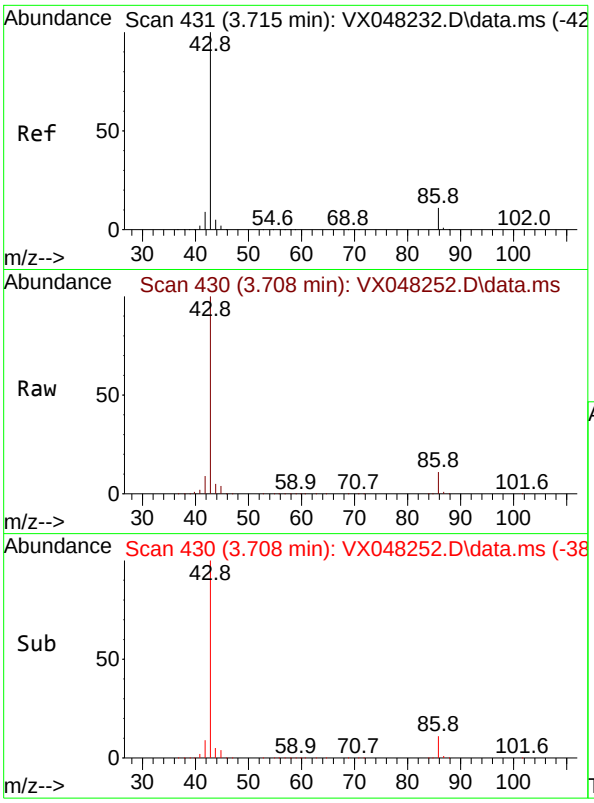


#22
Diisopropyl ether
Concen: 46.439 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 45 Resp: 232684

Ion	Ratio	Lower	Upper
45	100		
43	107.9	89.8	134.8
87	30.2	20.6	31.0
59	12.0	9.1	13.7





#23
Vinyl Acetate
Concen: 226.065 ug/l
RT: 3.708 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

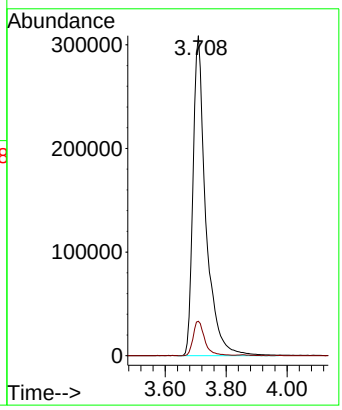
Tgt Ion: 43 Resp: 90480

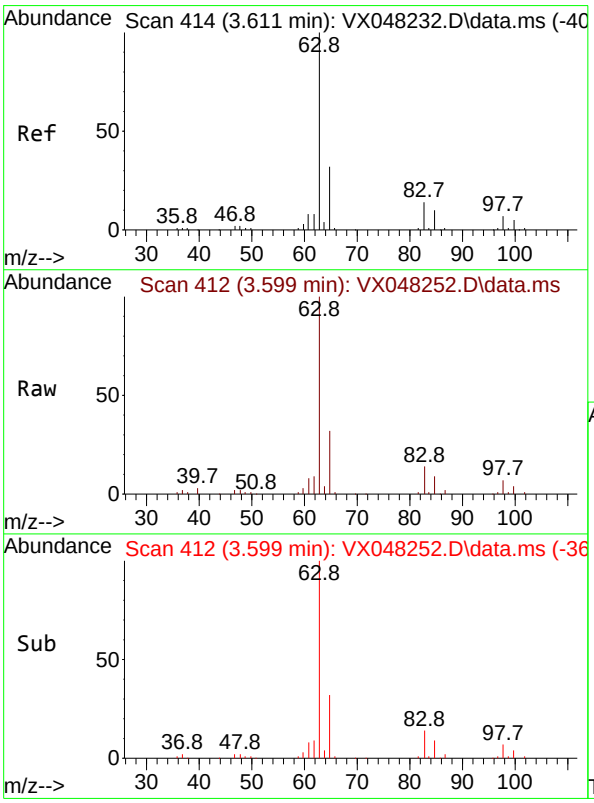
Ion	Ratio	Lower	Upper
43	100		
86	10.7	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

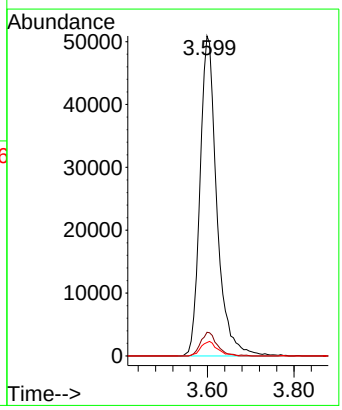


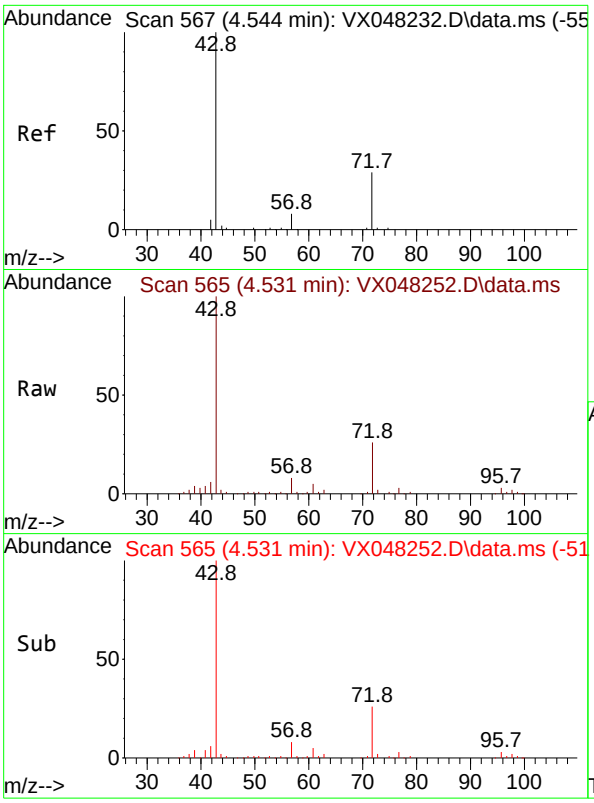


#24
1,1-Dichloroethane
Concen: 45.296 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 63 Resp: 137234

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.5	10.6
100	4.2	2.1	6.3





#25
2-Butanone
Concen: 213.793 ug/l
RT: 4.531 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

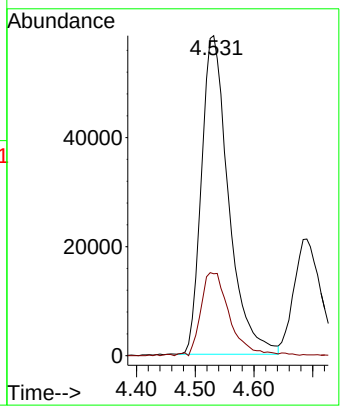
Tgt Ion: 43 Resp: 18758

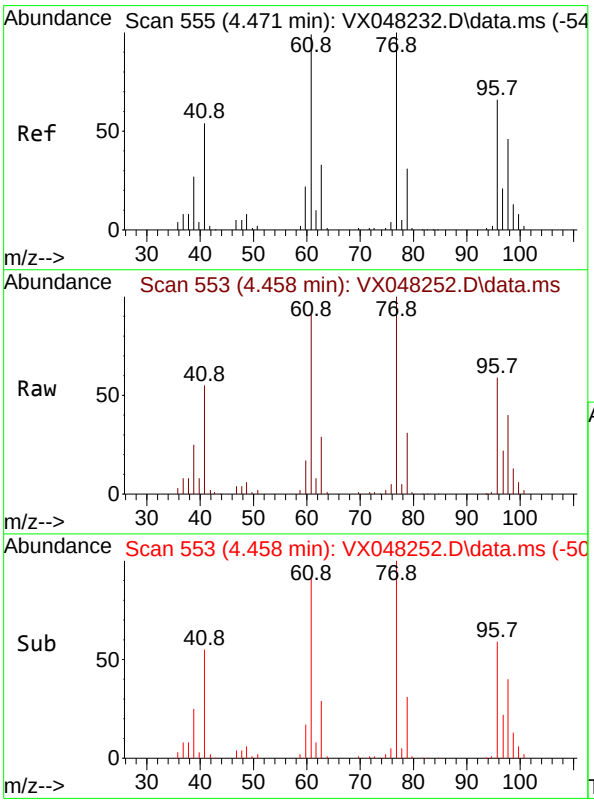
Ion	Ratio	Lower	Upper
43	100		
72	24.7	19.9	29.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

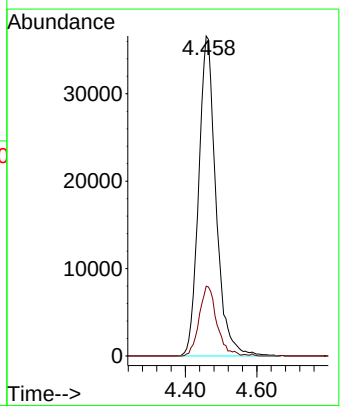


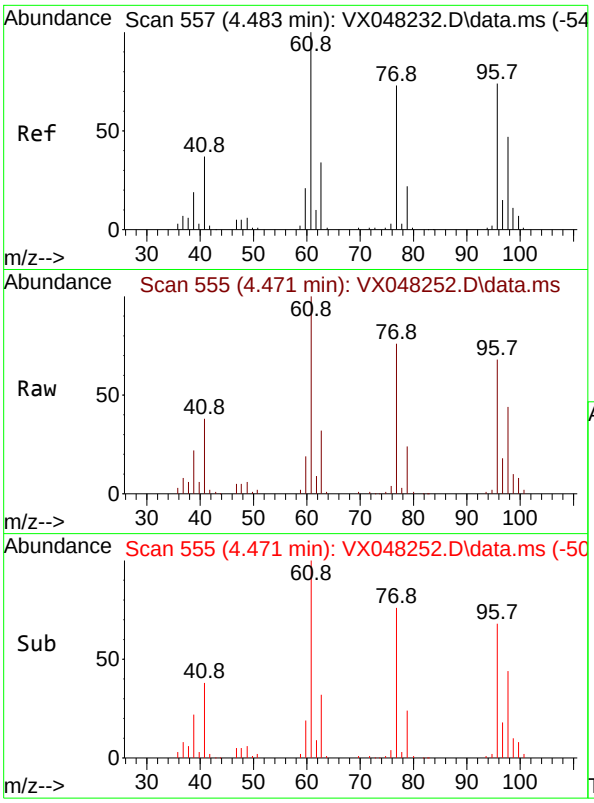


#26
2,2-Dichloropropane
Concen: 44.950 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 77 Resp: 122921

Ion	Ratio	Lower	Upper
77	100		
97	22.1	11.1	33.3

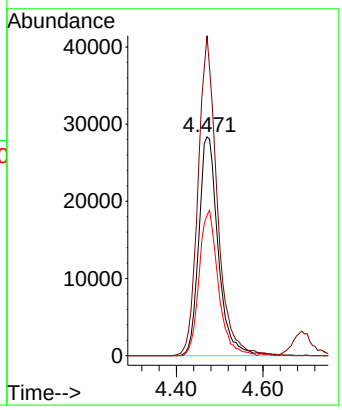




#27
cis-1,2-Dichloroethene
Concen: 45.309 ug/l
RT: 4.471 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 96 Resp: 8788

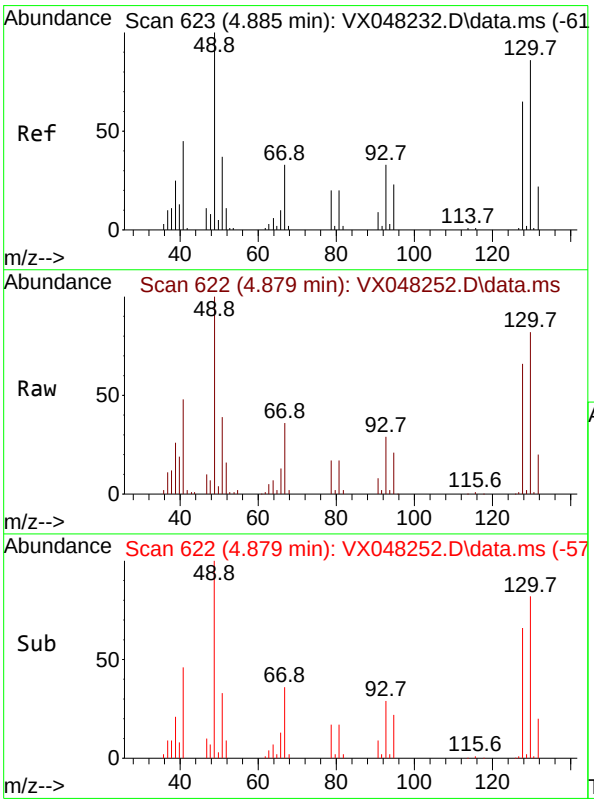
Ion	Ratio	Lower	Upper
96	100		
61	144.2	0.0	294.2
98	65.5	0.0	128.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

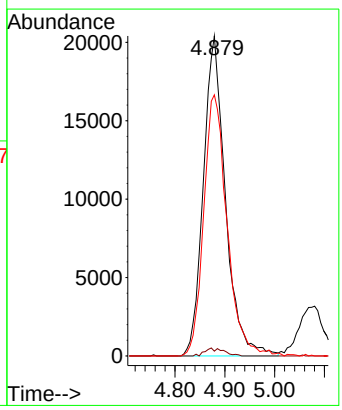
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

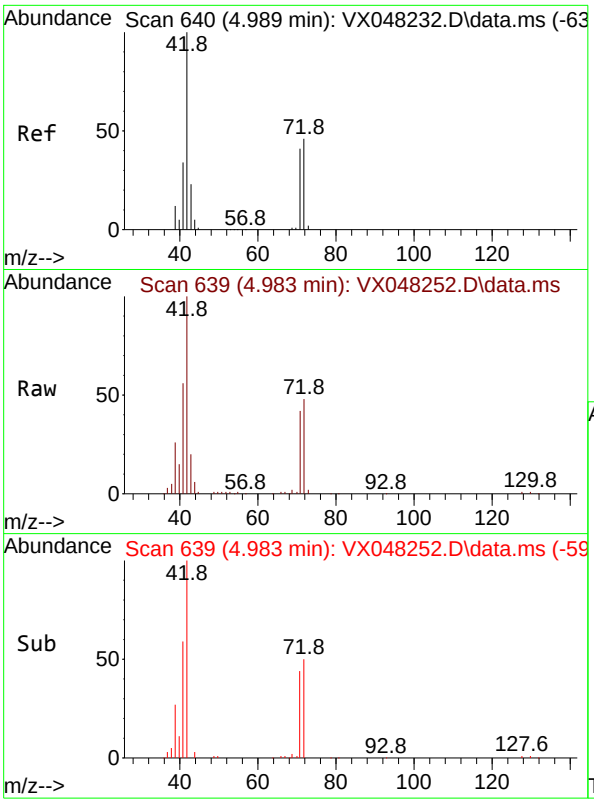


#28
Bromochloromethane
Concen: 49.917 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 49 Resp: 62707

Ion	Ratio	Lower	Upper
49	100		
129	1.1	0.0	4.4
130	86.4	59.3	88.9





#29
Tetrahydrofuran
Concen: 190.379 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

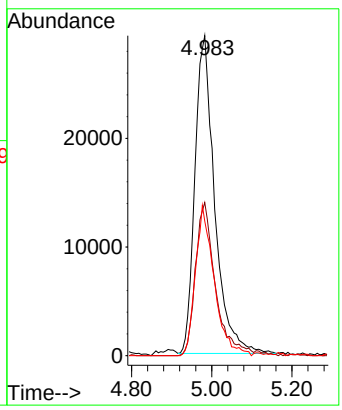
Tgt Ion: 42 Resp: 10004

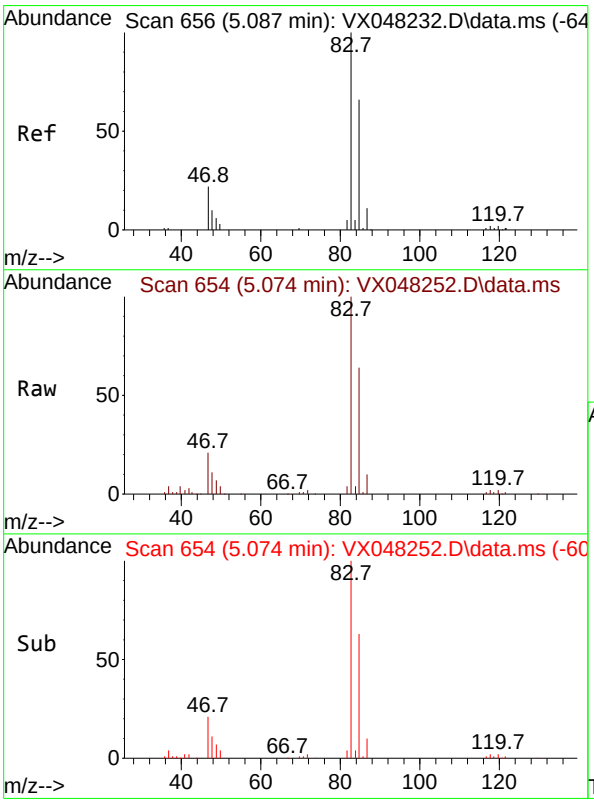
Ion	Ratio	Lower	Upper
42	100		
72	48.5	35.3	52.9
71	44.9	32.2	48.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

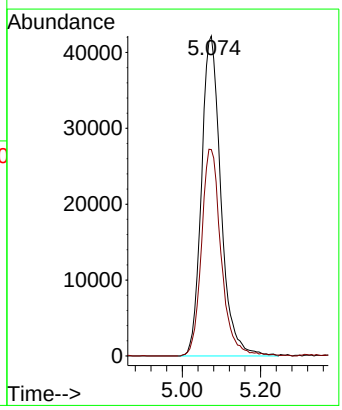


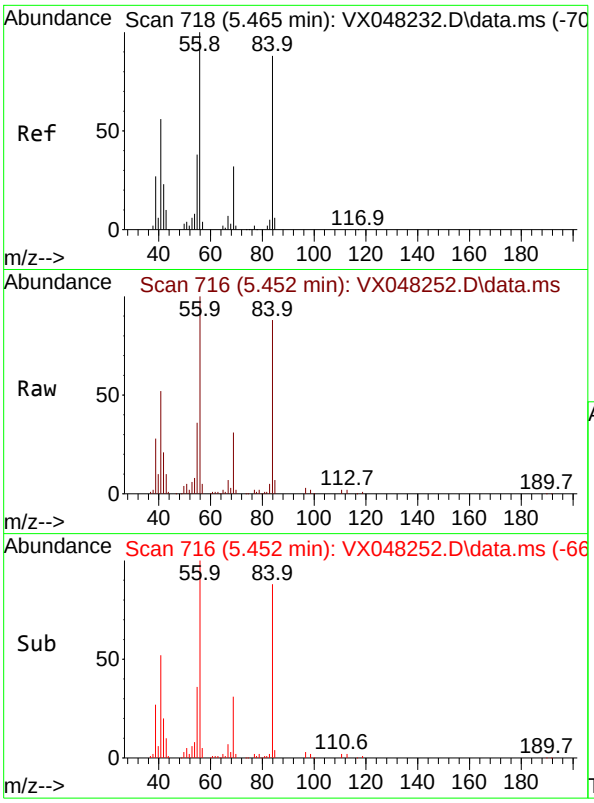


#30
Chloroform
Concen: 44.807 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 83 Resp: 145033

Ion	Ratio	Lower	Upper
83	100		
85	64.5	50.1	75.1

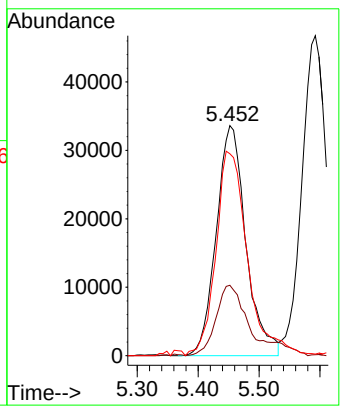




#31
Cyclohexane
Concen: 45.286 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 56 Resp: 11359

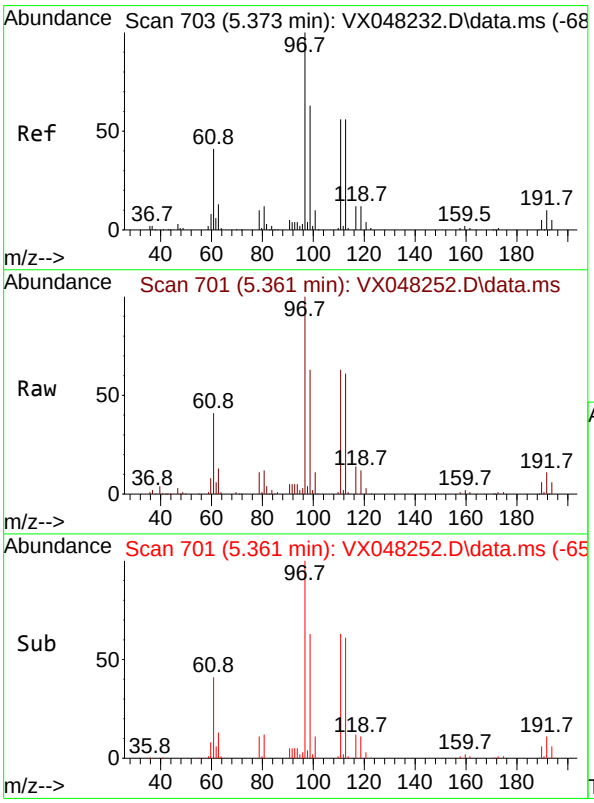
Ion	Ratio	Lower	Upper
56	100		
69	30.2	23.0	34.6
84	85.6	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

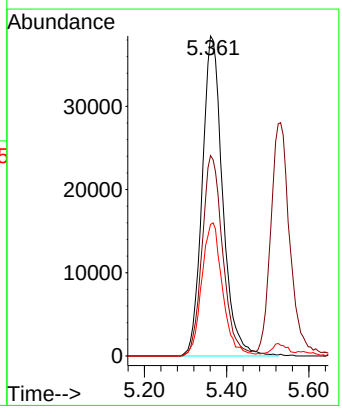
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

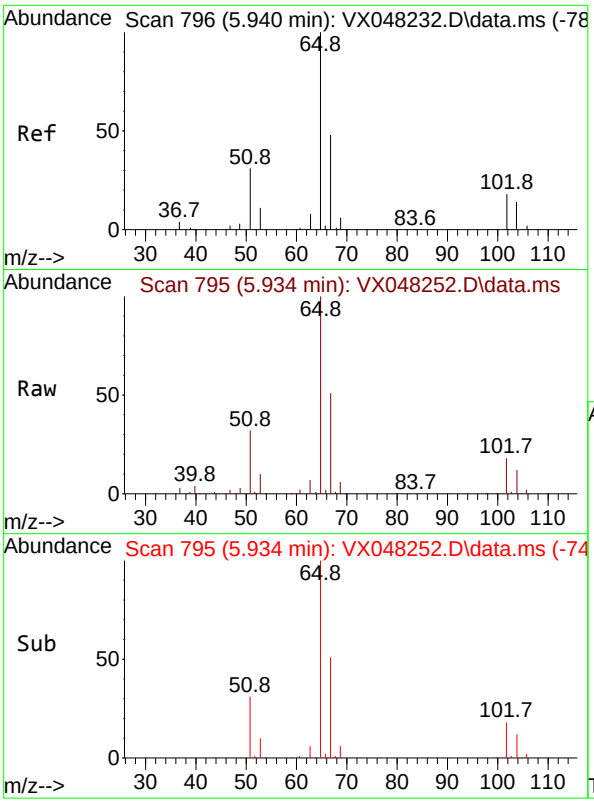


#32
1,1,1-Trichloroethane
Concen: 44.462 ug/l
RT: 5.361 min Scan# 701
Delta R.T. -0.012 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 97 Resp: 132637

Ion	Ratio	Lower	Upper
97	100		
99	63.1	51.7	77.5
61	42.3	34.8	52.2





#33
1,2-Dichloroethane-d4
Concen: 46.938 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

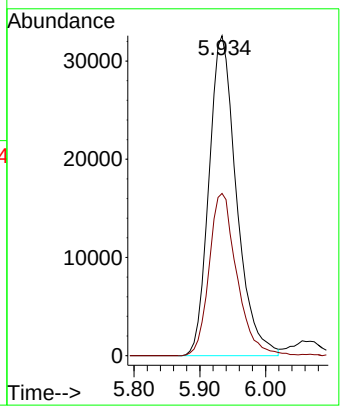
Tgt Ion: 65 Resp: 9484

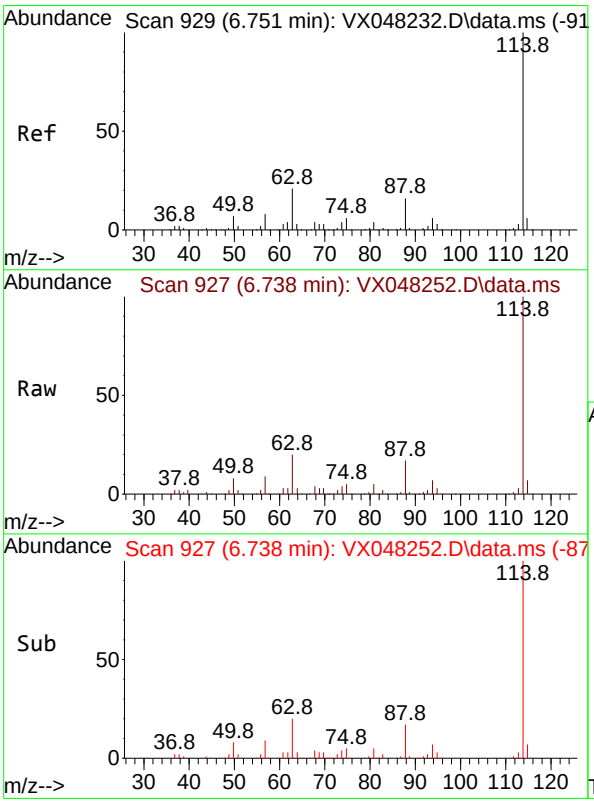
Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	105.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

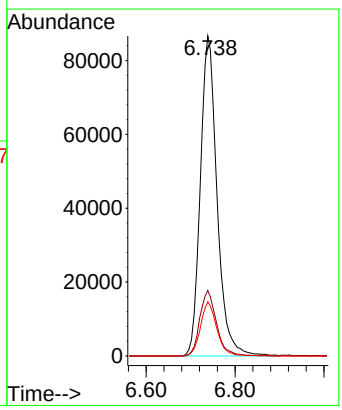


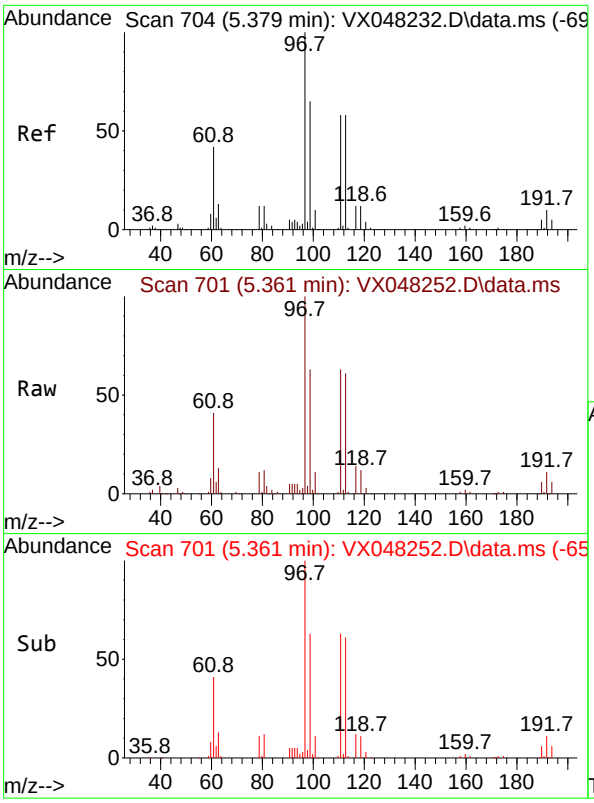


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.738 min Scan# 927
Delta R.T. -0.007 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:114 Resp: 227103

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	43.2
88	16.9	0.0	33.6

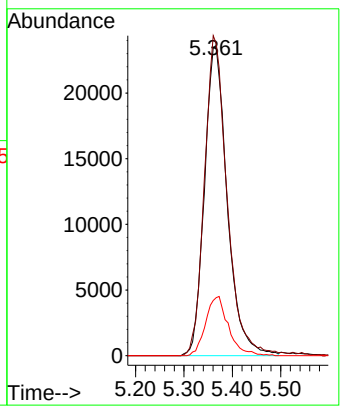




#35
Dibromofluoromethane
Concen: 49.844 ug/l
RT: 5.361 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:113 Resp: 7727

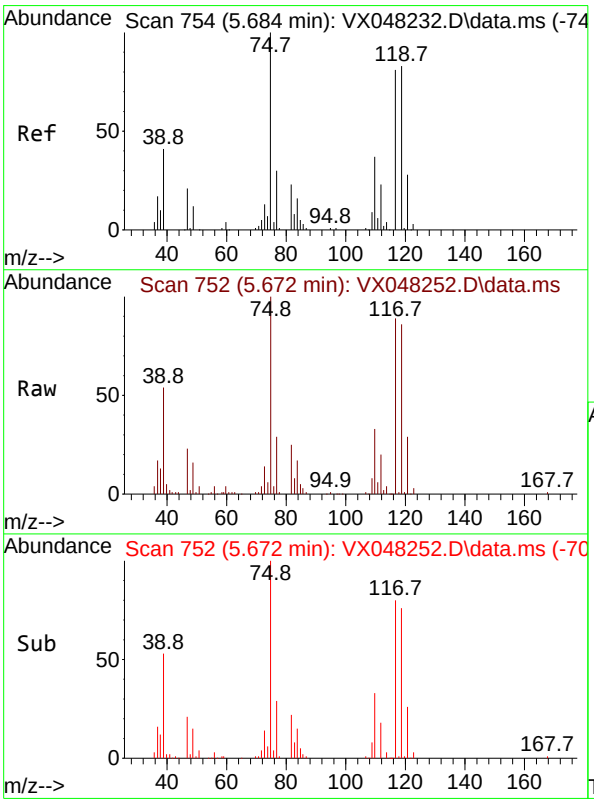
Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.2	123.4
192	19.1	15.1	22.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

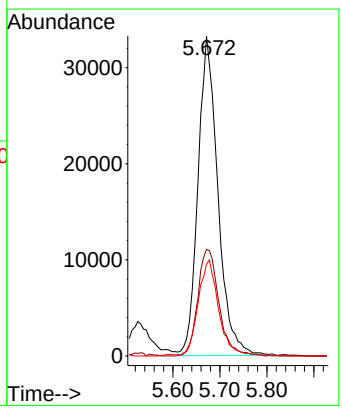
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

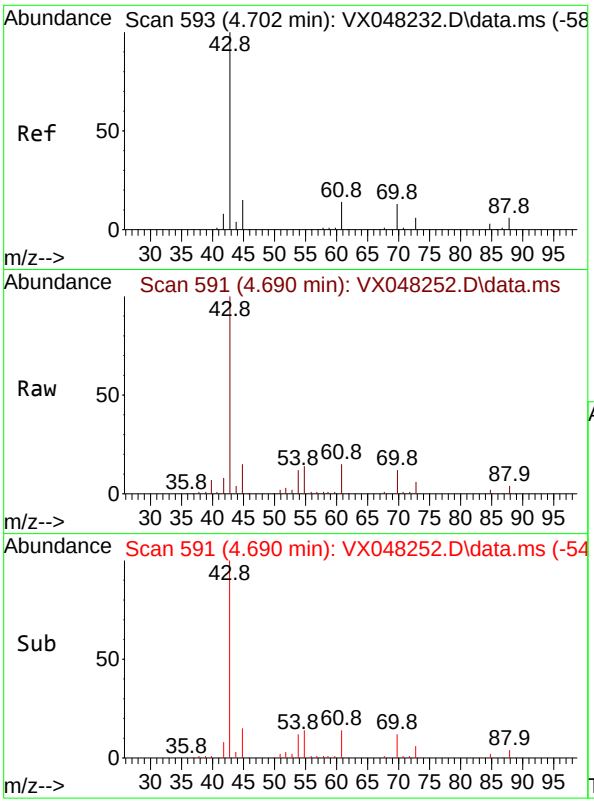


#36
1,1-Dichloropropene
Concen: 44.412 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 75 Resp: 97868

Ion	Ratio	Lower	Upper
75	100		
110	35.5	17.7	53.1
77	30.8	24.3	36.5





#37
Ethyl Acetate
Concen: 40.418 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

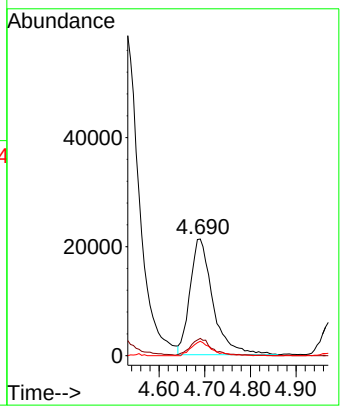
Tgt Ion: 43 Resp: 7382

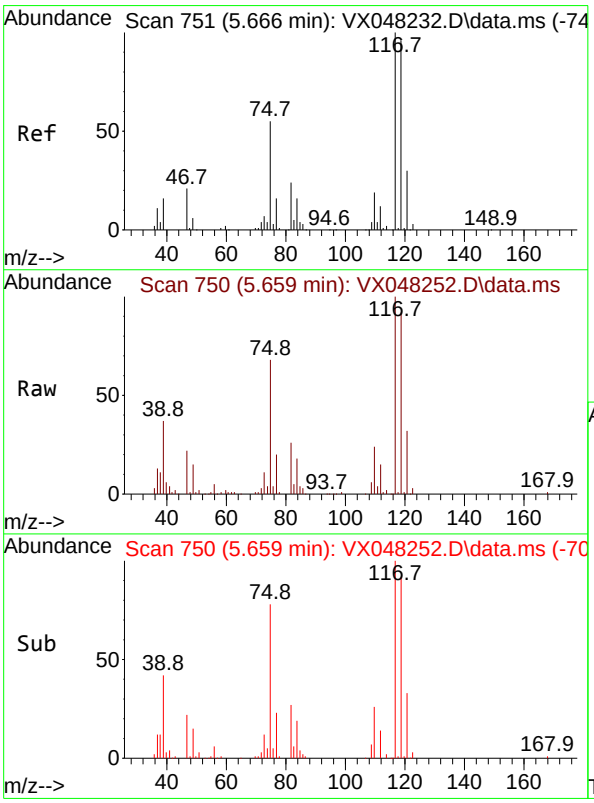
Ion	Ratio	Lower	Upper
43	100		
61	13.4	10.6	15.8
70	11.1	7.8	11.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

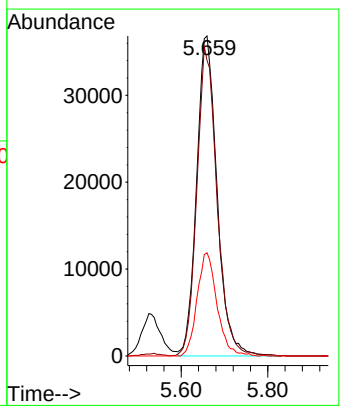


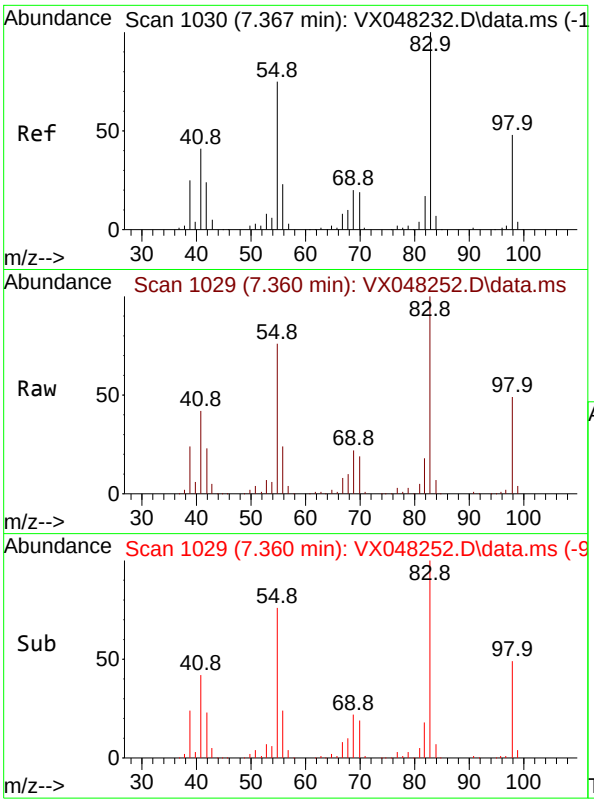


#38
Carbon Tetrachloride
Concen: 44.491 ug/l
RT: 5.659 min Scan# 750
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:117 Resp: 120960

Ion	Ratio	Lower	Upper
117	100		
119	92.4	77.2	115.8
121	32.2	24.8	37.2

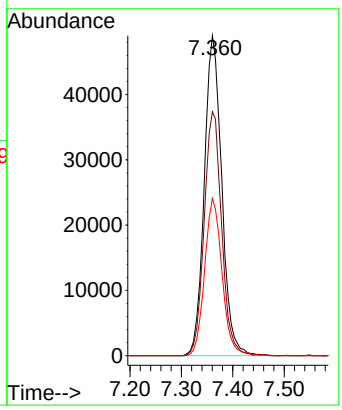




#39
Methylcyclohexane
Concen: 44.497 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 83 Resp: 11580

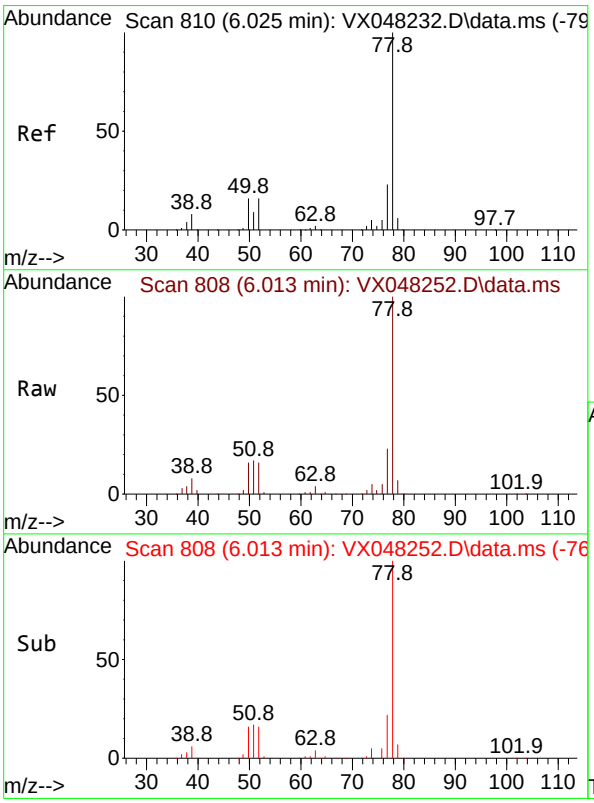
Ion	Ratio	Lower	Upper
83	100		
55	76.3	66.2	99.2
98	49.1	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

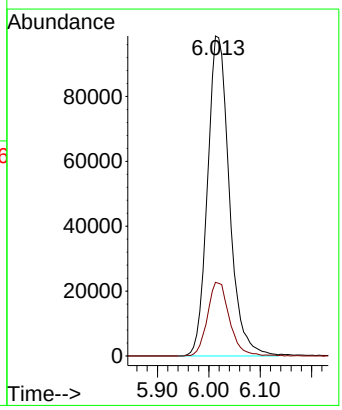
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

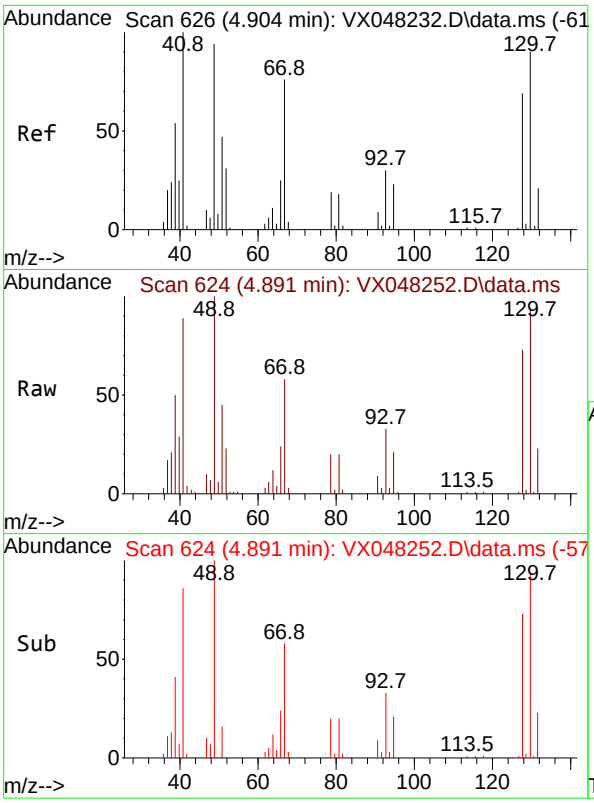


#40
Benzene
Concen: 45.424 ug/l
RT: 6.013 min Scan# 808
Delta R.T. -0.012 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 78 Resp: 290616

Ion	Ratio	Lower	Upper
78	100		
77	23.0	19.3	28.9

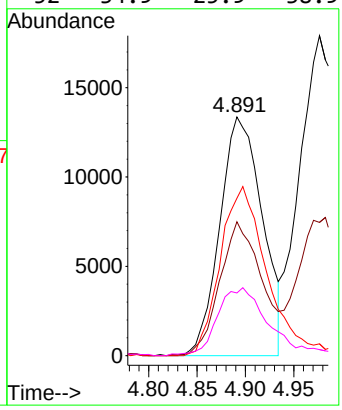




#41
Methacrylonitrile
Concen: 42.707 ug/l
RT: 4.891 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 41 Resp: 4096

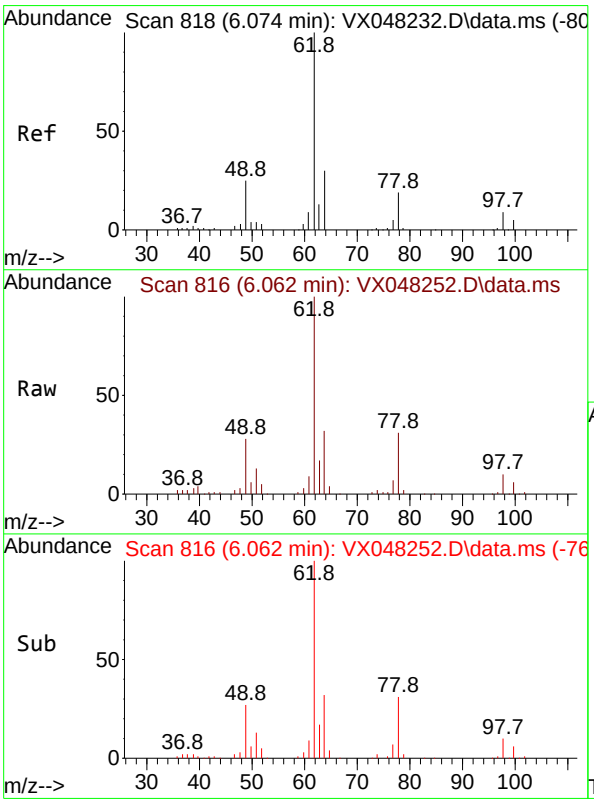
Ion	Ratio	Lower	Upper
41	100		
39	55.0	44.0	66.0
67	78.2	58.7	88.1
52	34.9	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

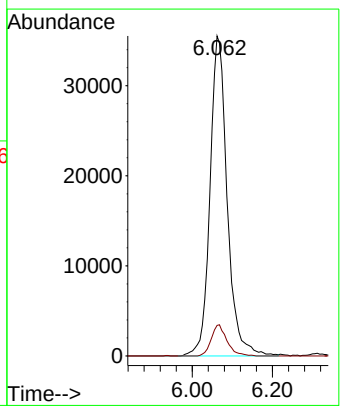
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

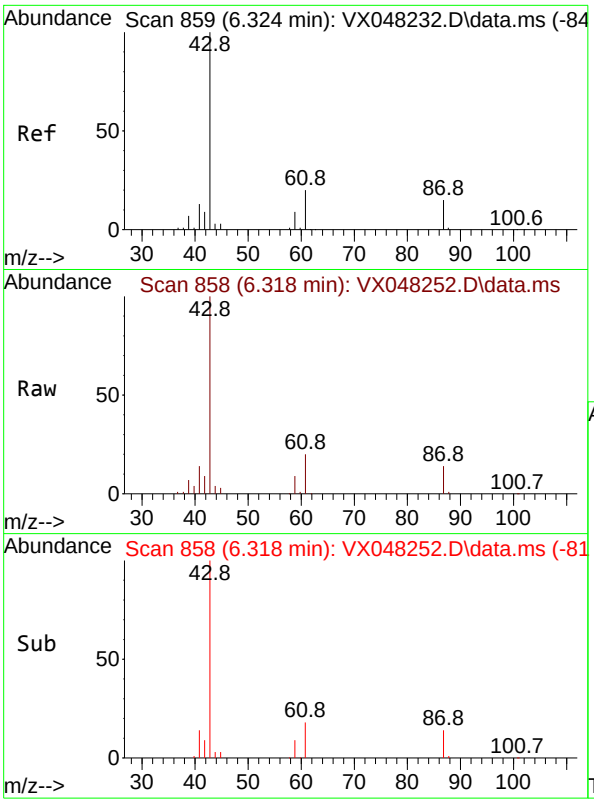


#42
1,2-Dichloroethane
Concen: 44.791 ug/l
RT: 6.062 min Scan# 816
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 62 Resp: 105747

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	17.2





#43
Isopropyl Acetate
Concen: 40.859 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

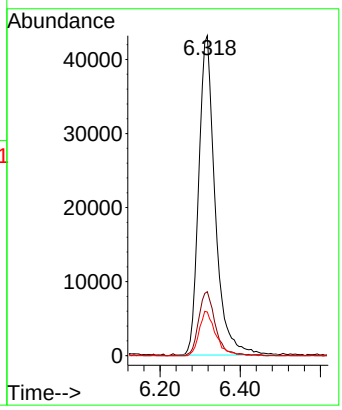
Tgt Ion: 43 Resp: 12258

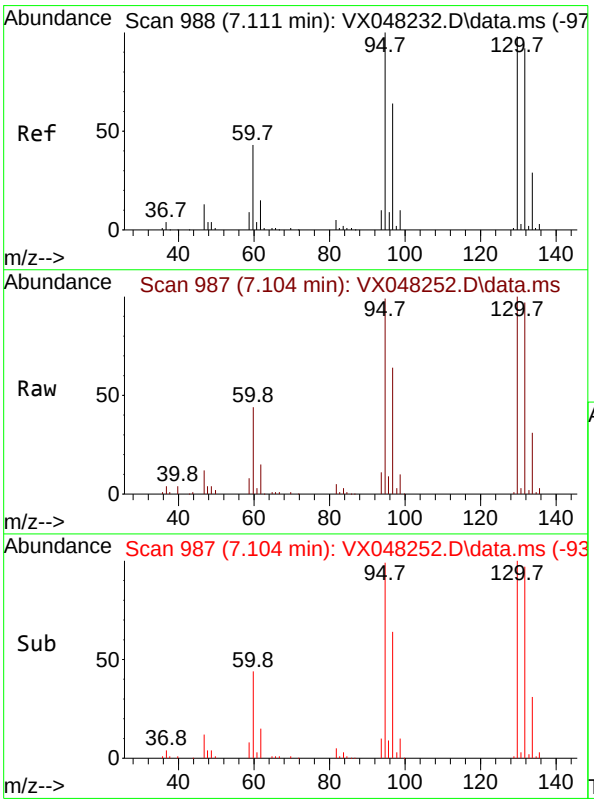
Ion	Ratio	Lower	Upper
43	100		
61	20.4	14.9	22.3
87	14.0	9.4	14.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

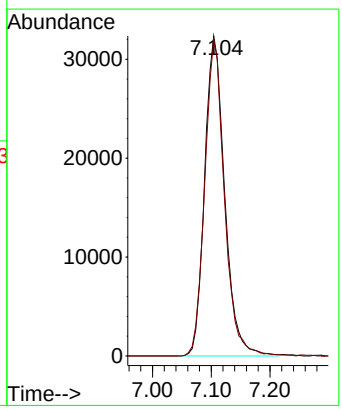


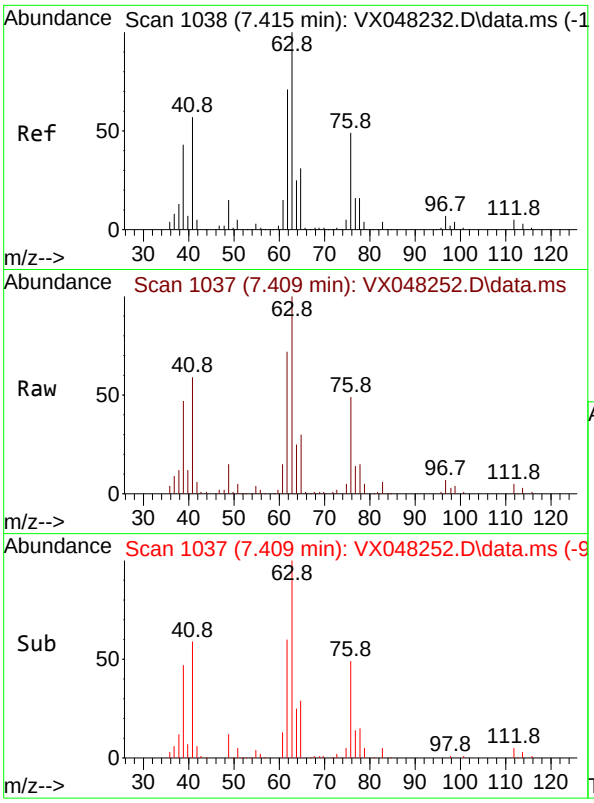


#44
Trichloroethene
Concen: 45.286 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:130 Resp: 76506

Ion	Ratio	Lower	Upper
130	100		
95	108.3	0.0	200.6





#45
1,2-Dichloropropane
Concen: 45.586 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

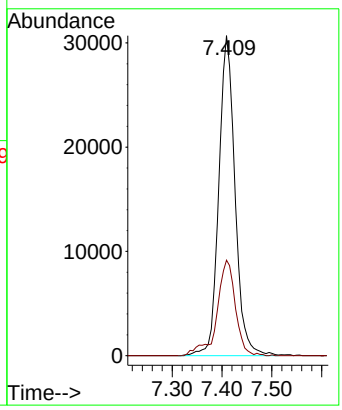
Tgt Ion: 63 Resp: 6934

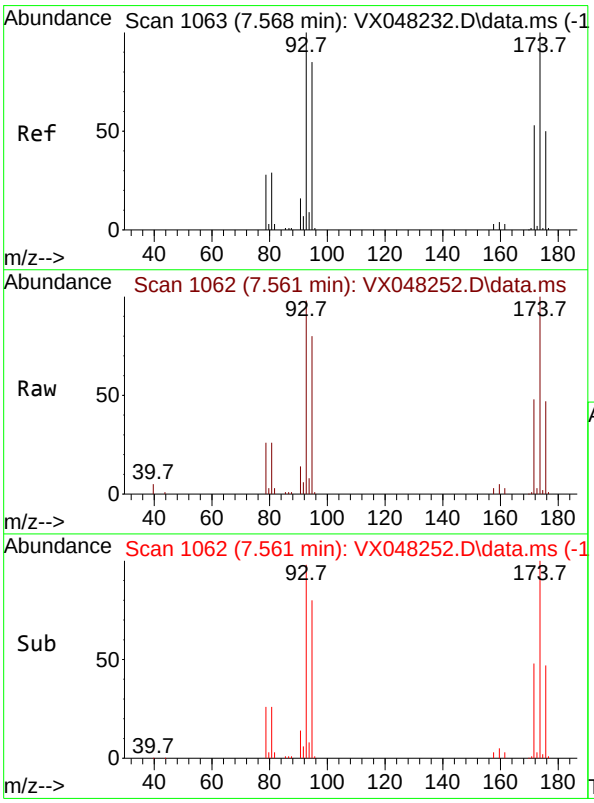
Ion	Ratio	Lower	Upper
63	100		
65	29.8	24.1	36.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

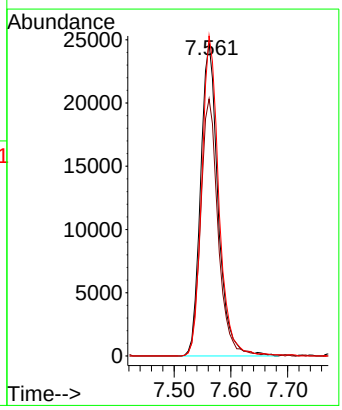


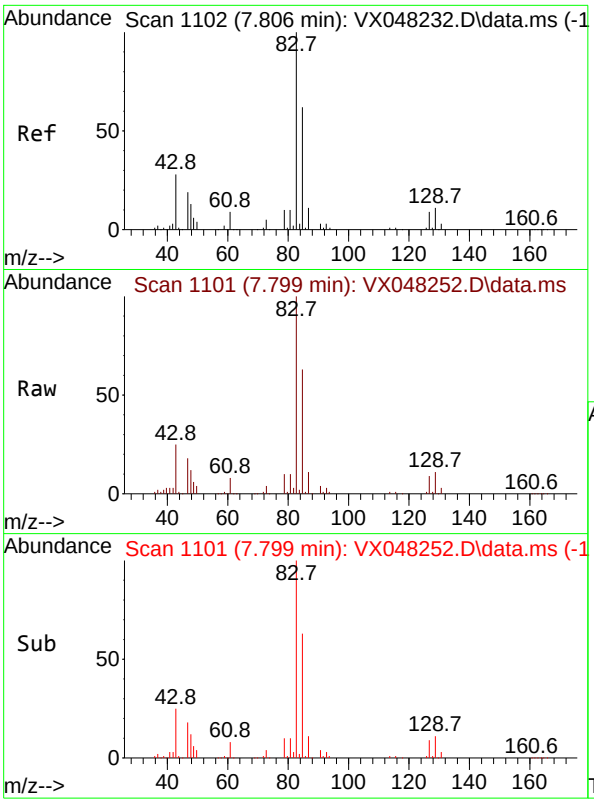


#46
Dibromomethane
Concen: 44.649 ug/l
RT: 7.561 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 93 Resp: 52913

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.9	98.9
174	100.1	71.7	107.5

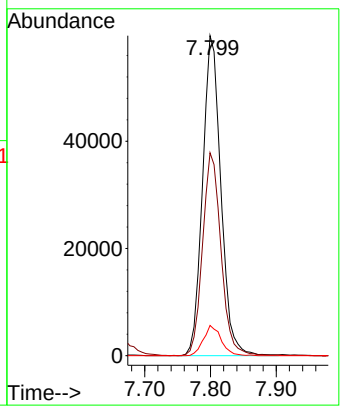




#47
Bromodichloromethane
Concen: 45.265 ug/l
RT: 7.799 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 83 Resp: 11582

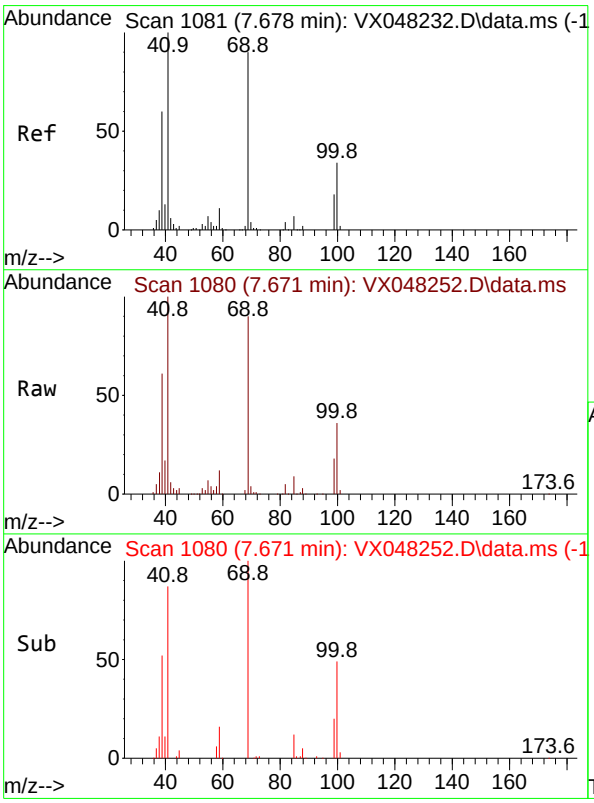
Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.2	78.4
127	9.4	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

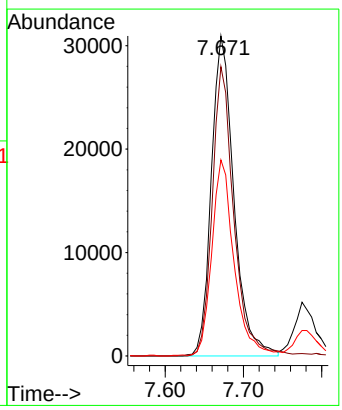
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

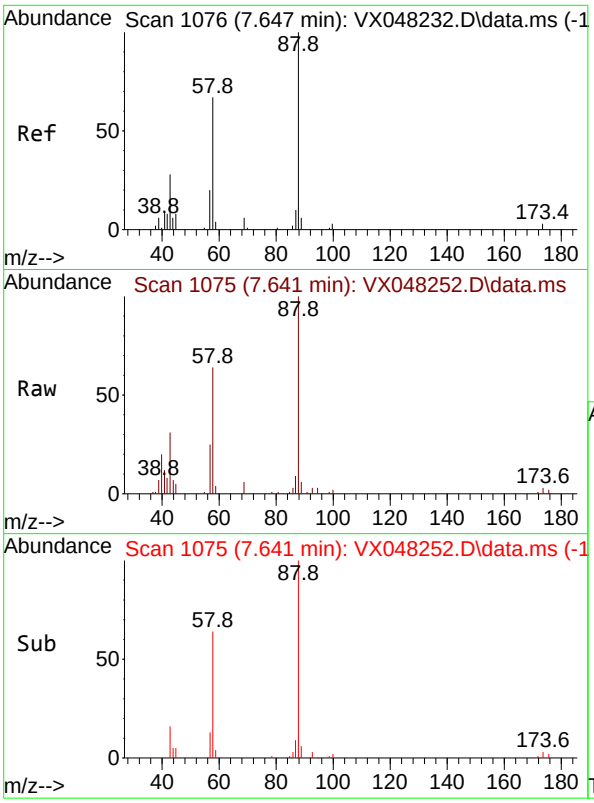


#48
Methyl methacrylate
Concen: 41.000 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 41 Resp: 62073

Ion	Ratio	Lower	Upper
41	100		
69	86.3	63.4	95.0
39	60.7	47.1	70.7





#49
1,4-Dioxane
Concen: 782.834 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

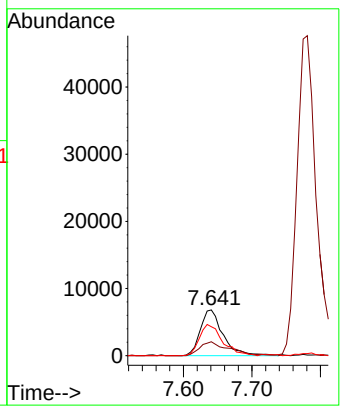
Tgt Ion: 88 Resp: 1565

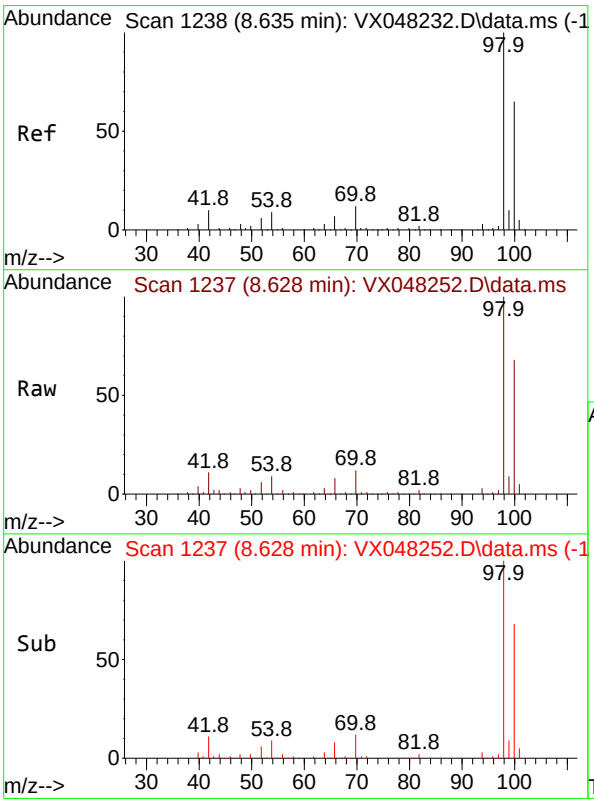
Ion	Ratio	Lower	Upper
88	100		
43	39.9	35.0	52.4
58	69.5	61.9	92.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

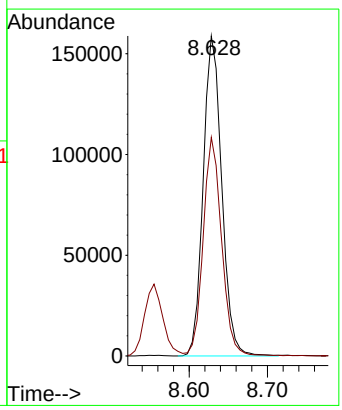


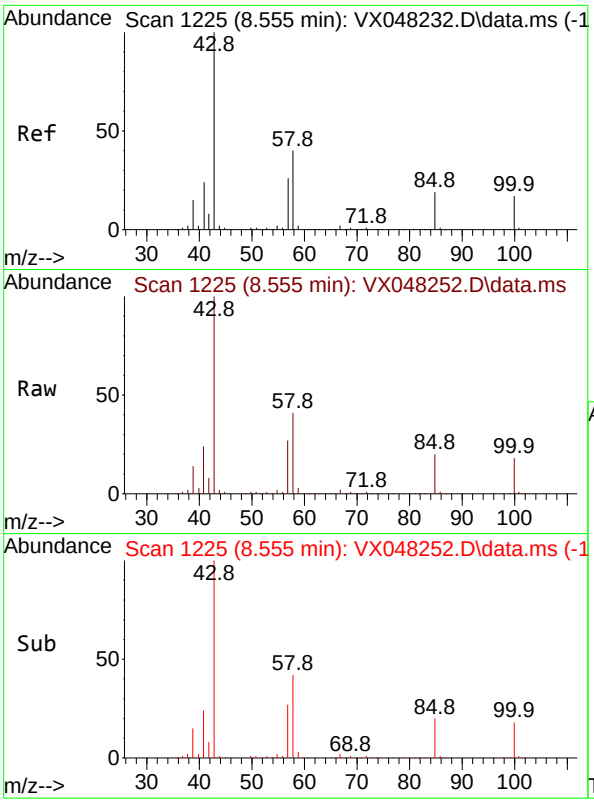


#50
Toluene-d8
Concen: 48.070 ug/l
RT: 8.628 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 98 Resp: 261228

Ion	Ratio	Lower	Upper
98	100		
100	67.7	53.0	79.4





#51
4-Methyl-2-Pentanone
Concen: 198.518 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

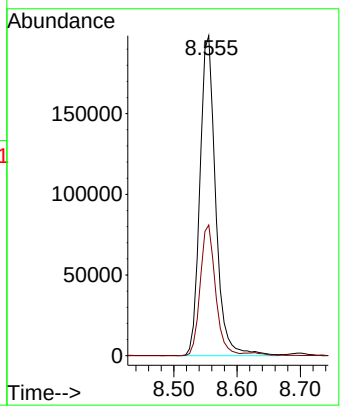
Tgt Ion: 43 Resp: 34341

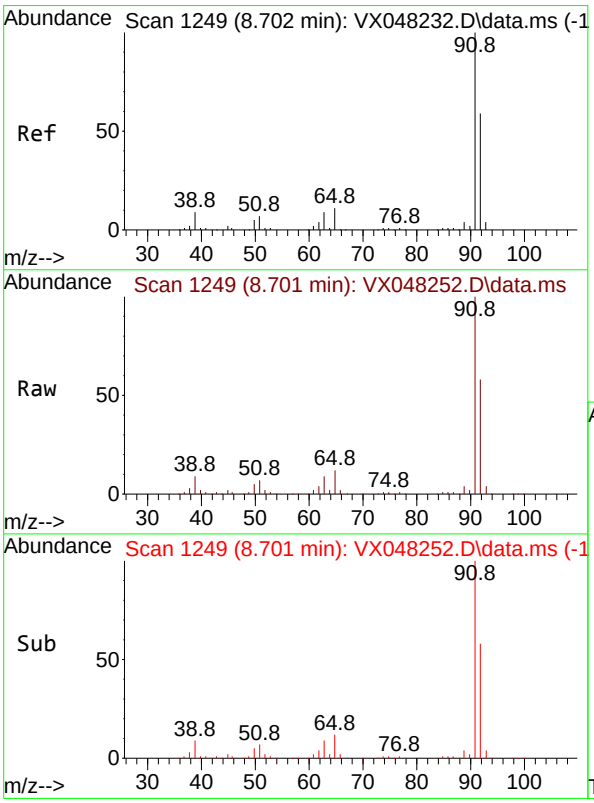
Ion	Ratio	Lower	Upper
43	100		
58	39.7	29.5	44.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

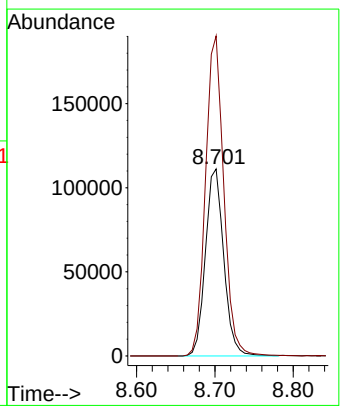


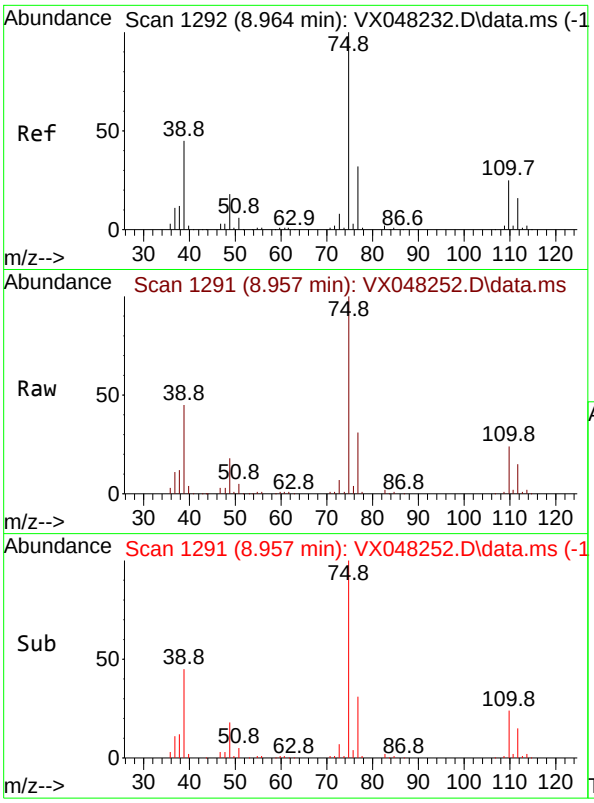


#52
Toluene
Concen: 44.443 ug/l
RT: 8.701 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 92 Resp: 180638

Ion	Ratio	Lower	Upper
92	100		
91	170.1	136.1	204.1

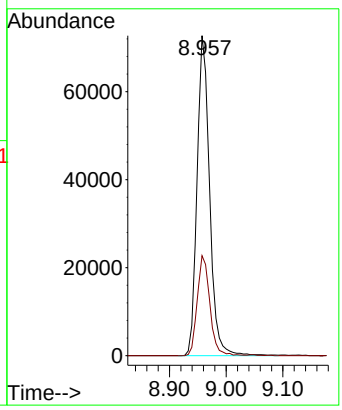




#53
t-1,3-Dichloropropene
Concen: 45.367 ug/l
RT: 8.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 75 Resp: 11186

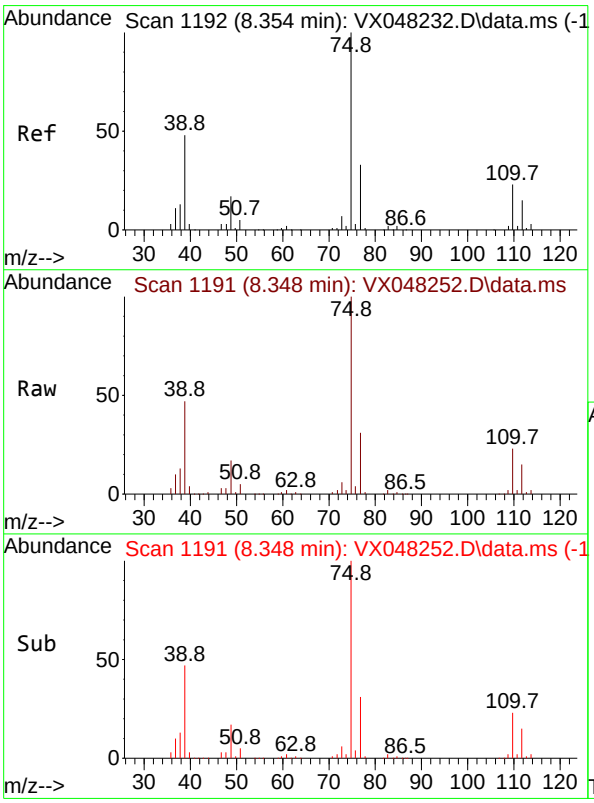
Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

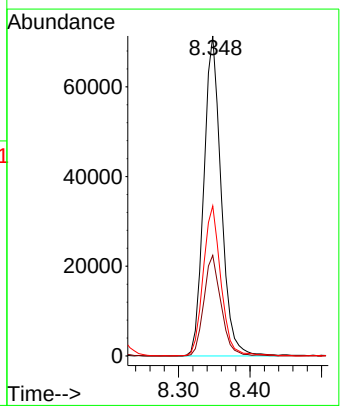
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

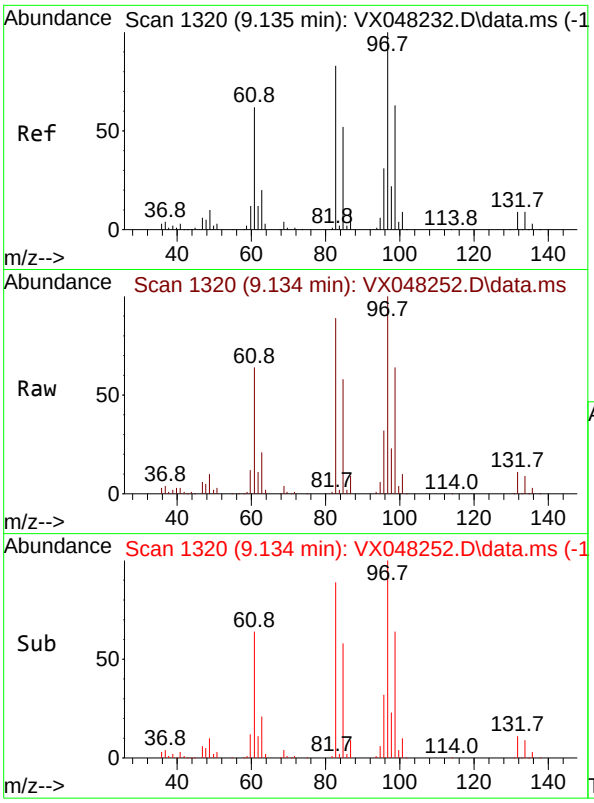


#54
cis-1,3-Dichloropropene
Concen: 45.199 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 75 Resp: 120247

Ion	Ratio	Lower	Upper
75	100		
77	31.5	24.9	37.3
39	46.8	42.6	64.0

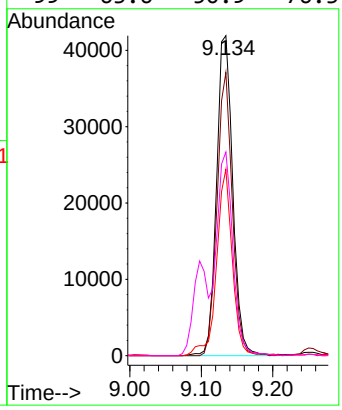




#55
1,1,2-Trichloroethane
Concen: 43.758 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 97 Resp: 6614

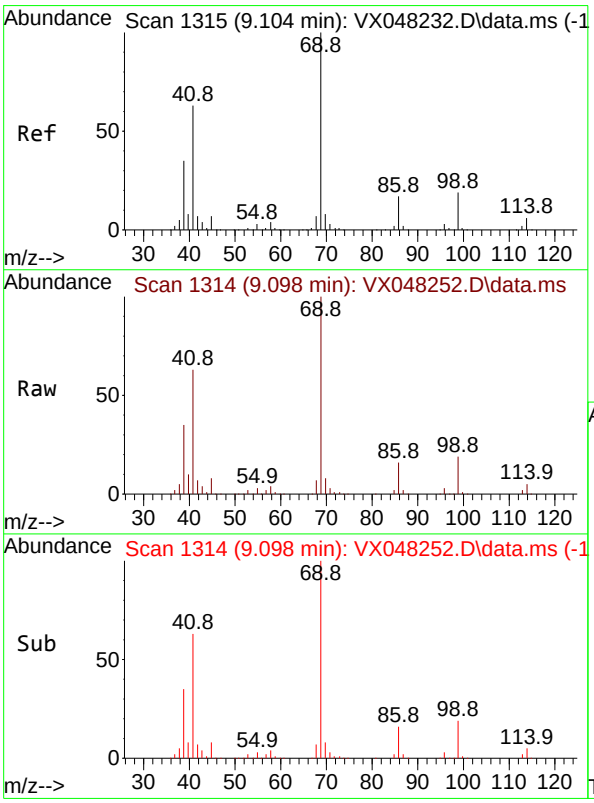
Ion	Ratio	Lower	Upper
97	100		
83	88.5	70.6	105.8
85	58.3	45.0	67.6
99	63.6	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

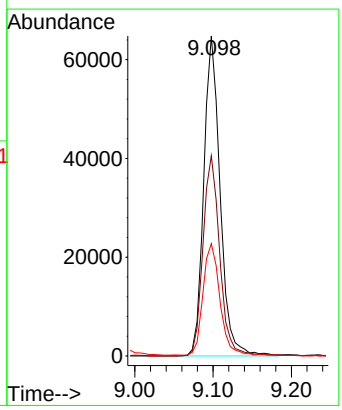
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

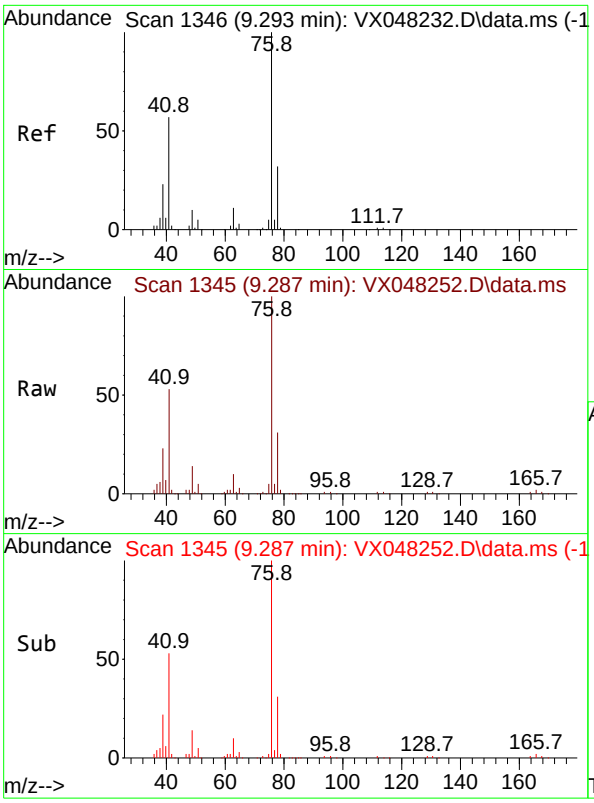


#56
Ethyl methacrylate
Concen: 42.533 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 69 Resp: 94033

Ion	Ratio	Lower	Upper
69	100		
41	64.2	56.0	84.0
39	37.2	31.6	47.4





#57
1,3-Dichloropropane
Concen: 43.726 ug/l
RT: 9.287 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

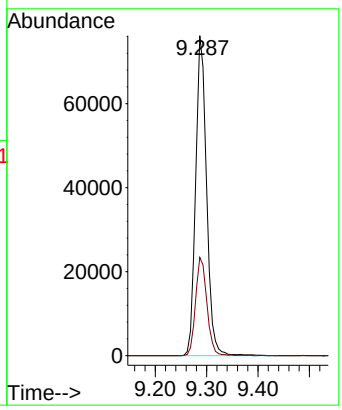
Tgt Ion: 76 Resp: 11289

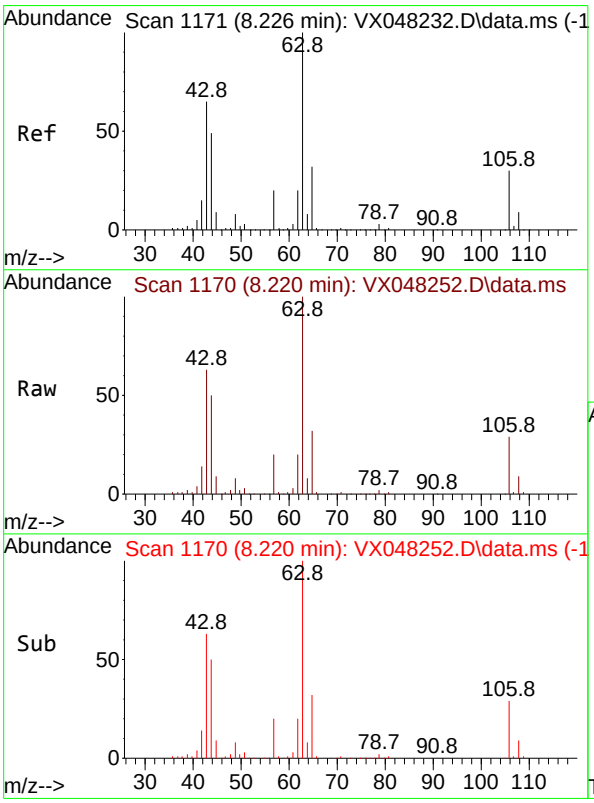
Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.4	38.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

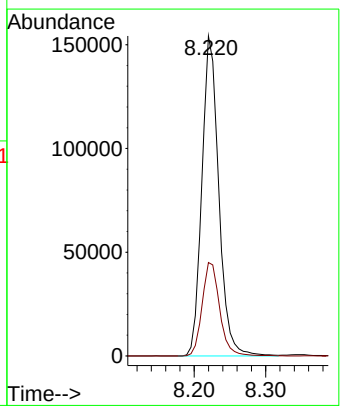


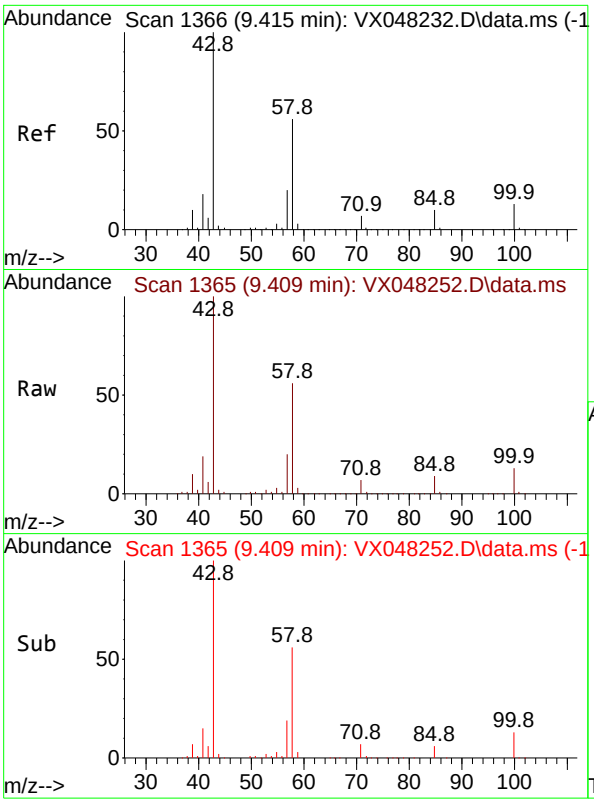


#58
2-Chloroethyl Vinyl ether
Concen: 213.469 ug/l
RT: 8.220 min Scan# 1170
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 63 Resp: 253467

Ion	Ratio	Lower	Upper
63	100		
106	30.3	22.2	33.2





#59
2-Hexanone
Concen: 213.881 ug/l
RT: 9.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

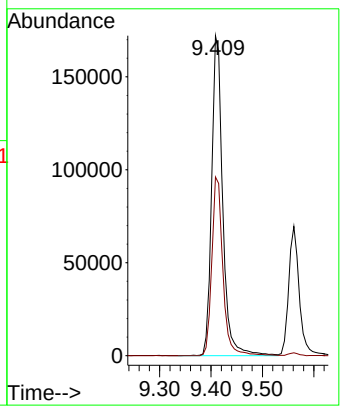
Tgt Ion: 43 Resp: 25798

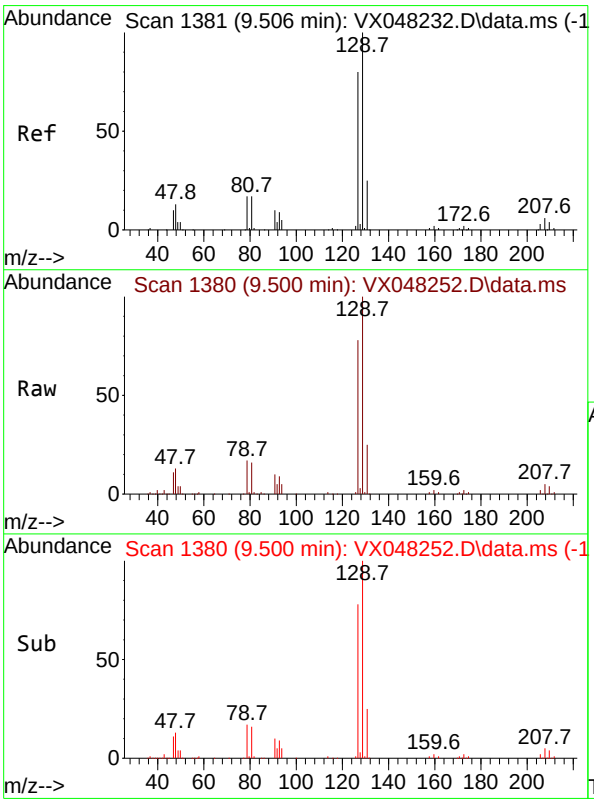
Ion	Ratio	Lower	Upper
43	100		
58	55.8	26.3	78.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

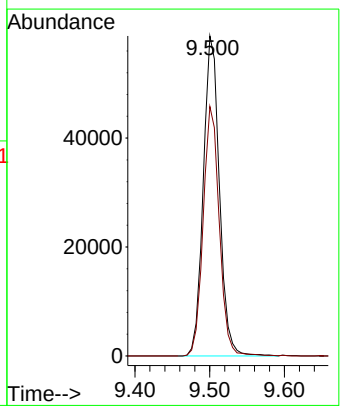


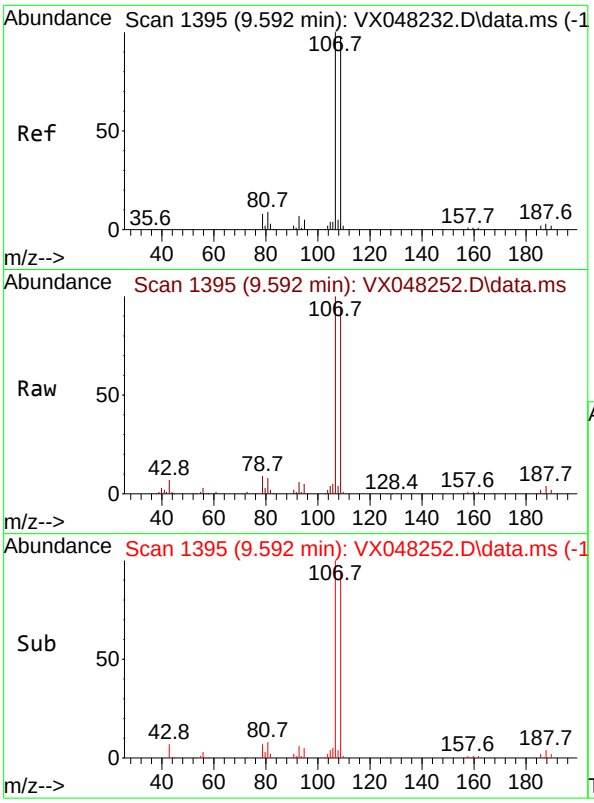


#60
Dibromochloromethane
Concen: 43.319 ug/l
RT: 9.500 min Scan# 1380
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:129 Resp: 88005

Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.6	115.7





#61
1,2-Dibromoethane
Concen: 43.228 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

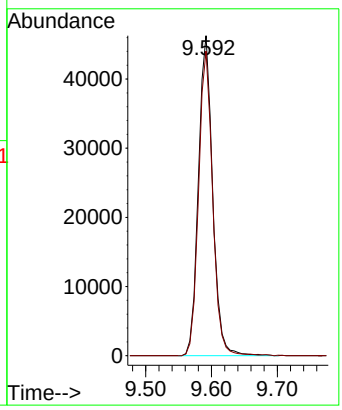
Tgt Ion:107 Resp: 6965

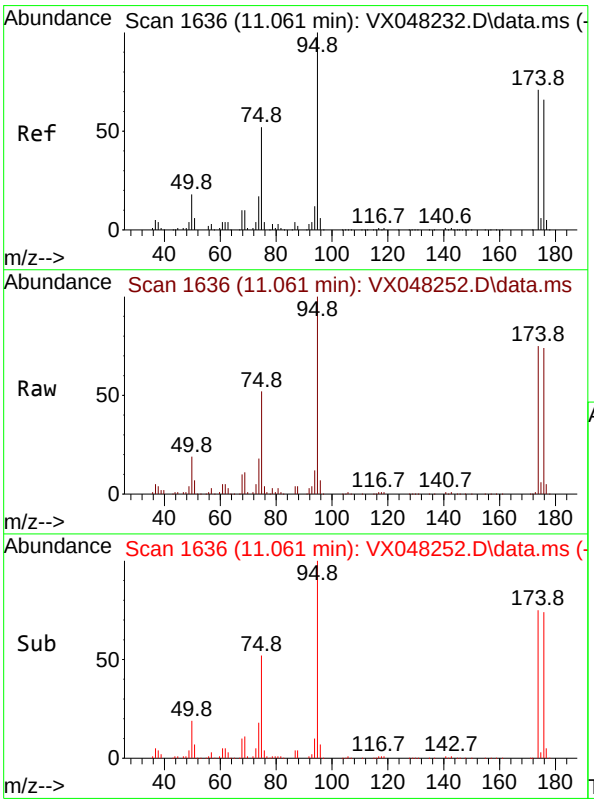
Ion	Ratio	Lower	Upper
107	100		
109	94.0	77.0	115.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

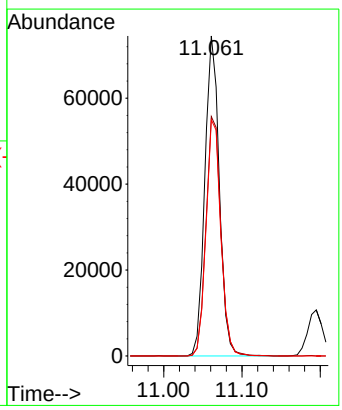


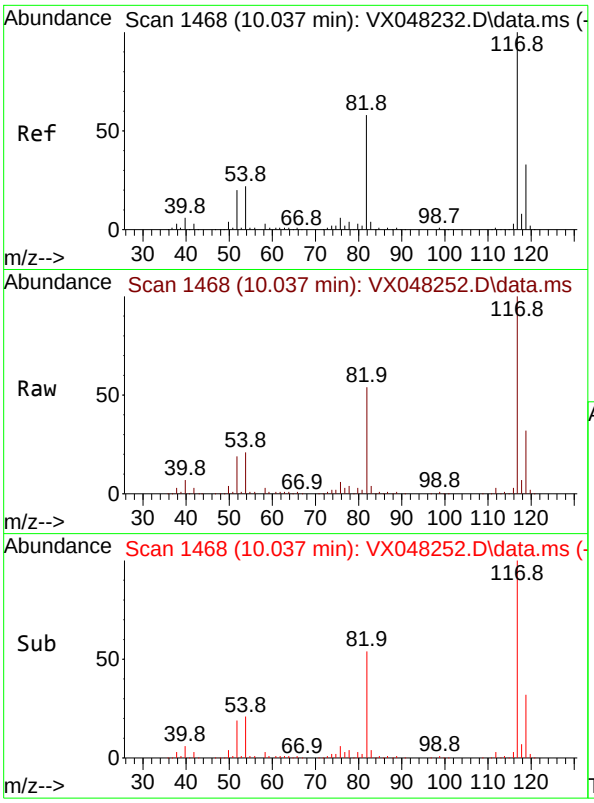


#62
4-Bromofluorobenzene
Concen: 46.072 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 95 Resp: 95248

Ion	Ratio	Lower	Upper
95	100		
174	77.2	0.0	147.8
176	75.3	0.0	142.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

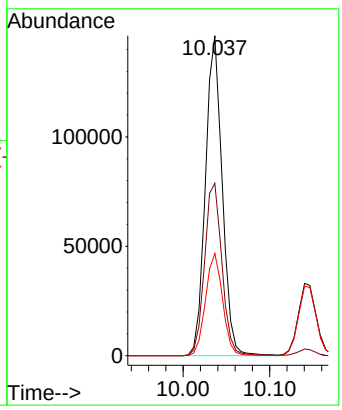
Tgt Ion:117 Resp: 19701

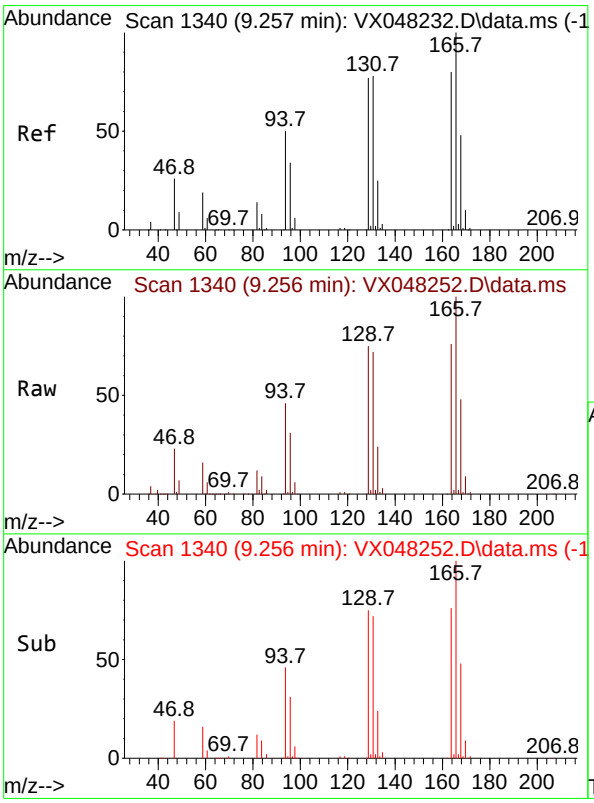
Ion	Ratio	Lower	Upper
117	100		
82	53.8	46.5	69.7
119	32.0	25.9	38.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

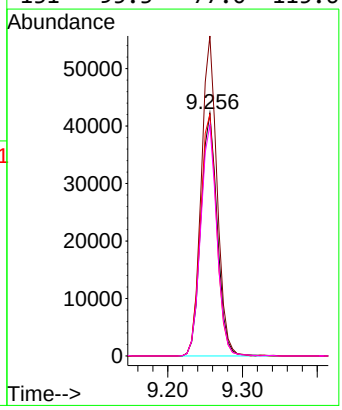


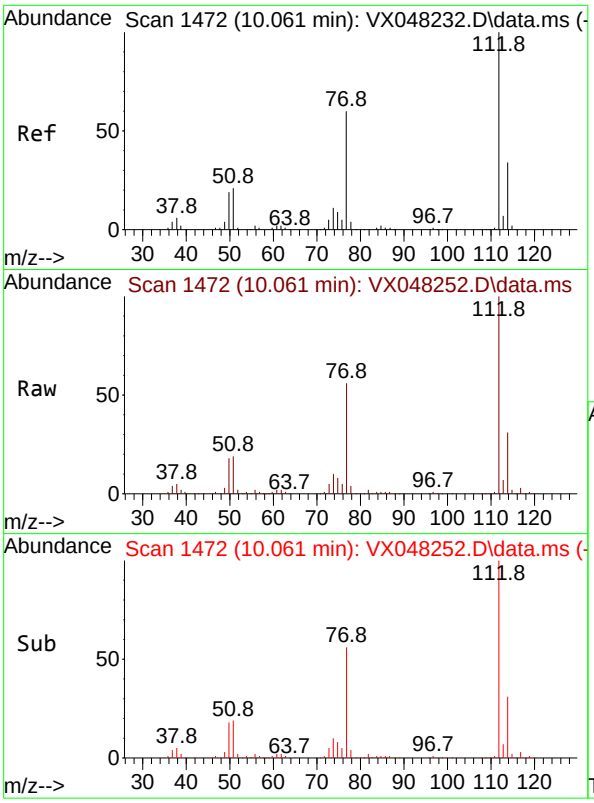


#64
Tetrachloroethene
Concen: 43.569 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:164 Resp: 64080

Ion	Ratio	Lower	Upper
164	100		
166	131.9	104.5	156.7
129	99.5	81.8	122.6
131	95.3	77.0	115.6





#65
Chlorobenzene
Concen: 45.568 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

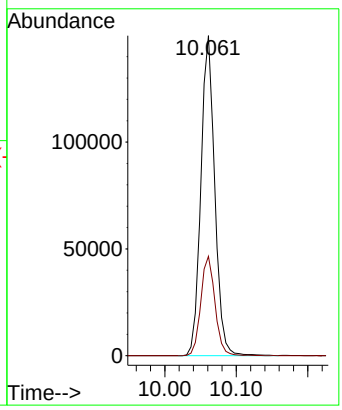
Tgt Ion:112 Resp: 20195

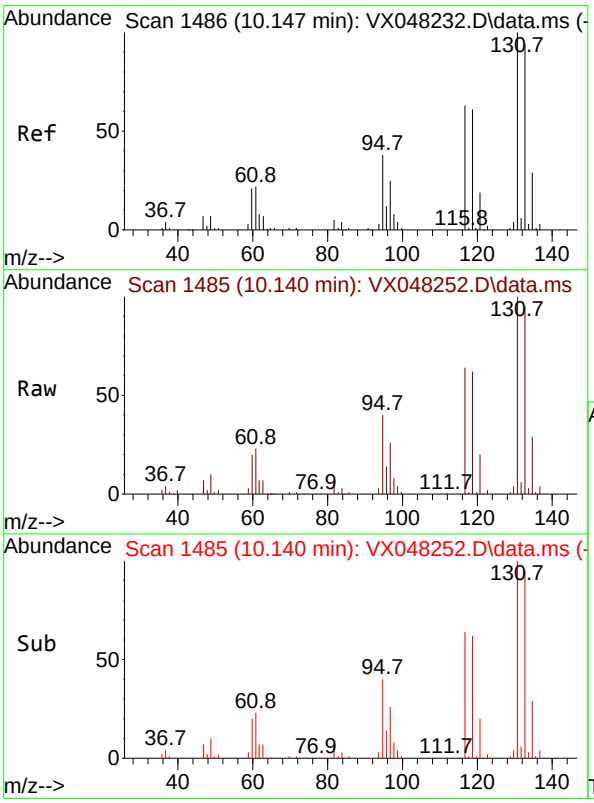
Ion	Ratio	Lower	Upper
112	100		
114	31.0	26.2	39.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

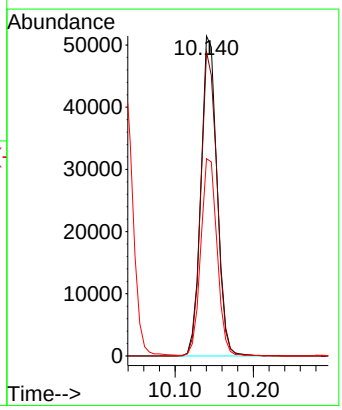


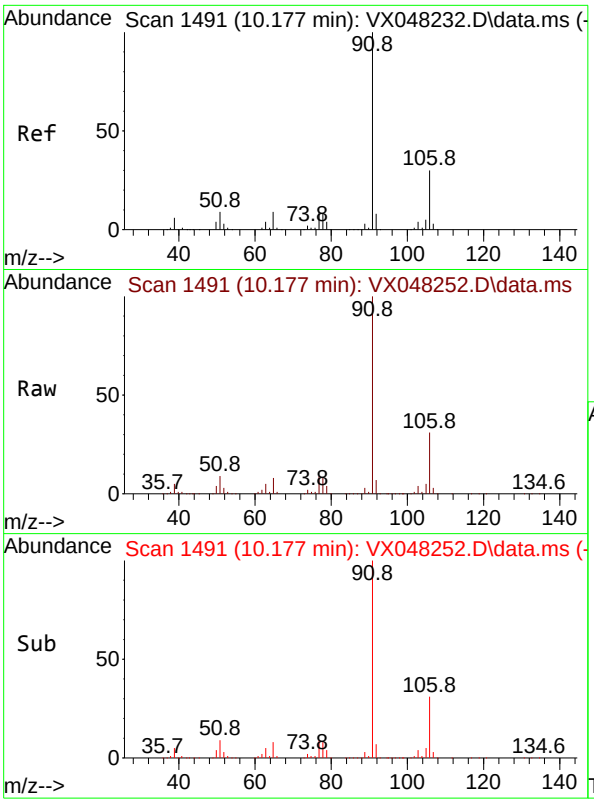


#66
1,1,1,2-Tetrachloroethane
Concen: 45.215 ug/l
RT: 10.140 min Scan# 1485
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:131 Resp: 73602

Ion	Ratio	Lower	Upper
131	100		
133	94.8	47.6	142.8
119	62.4	32.5	97.5





#67
Ethyl Benzene
Concen: 45.371 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

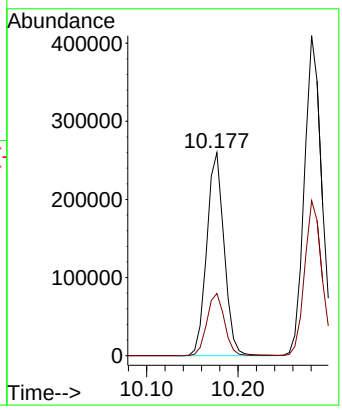
Tgt Ion: 91 Resp: 34235

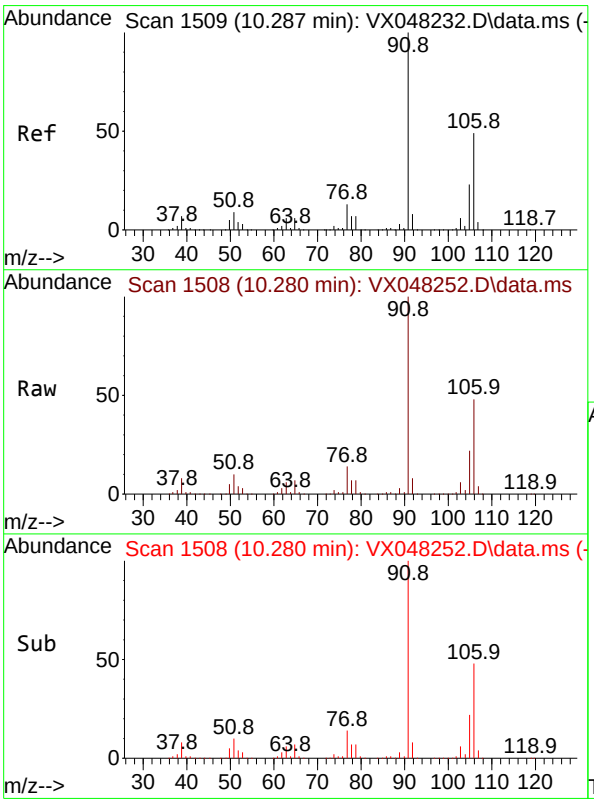
Ion	Ratio	Lower	Upper
91	100		
106	30.7	23.8	35.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

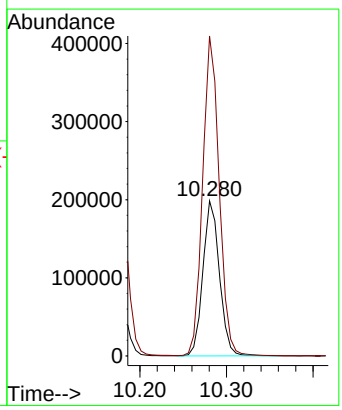


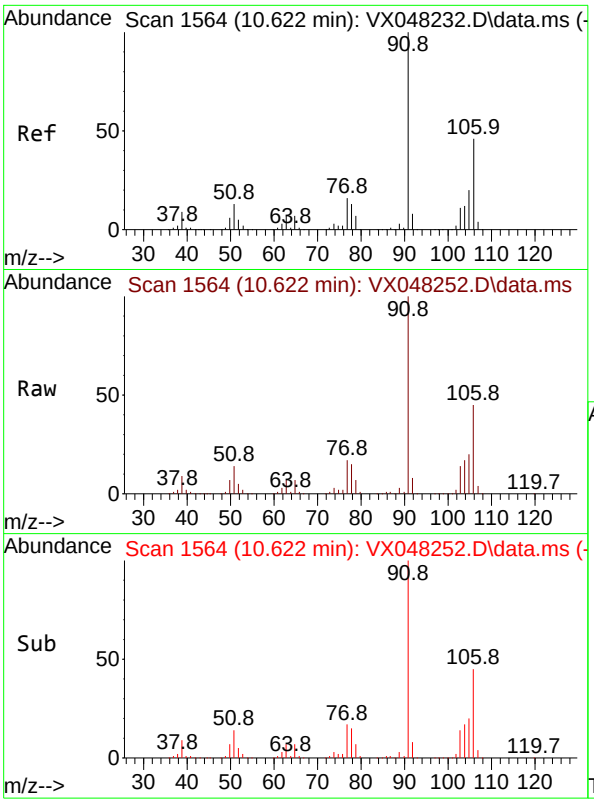


#68
m/p-Xylenes
Concen: 93.624 ug/l
RT: 10.280 min Scan# 1508
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:106 Resp: 262482

Ion	Ratio	Lower	Upper
106	100		
91	206.8	167.9	251.9





#69
o-Xylene
Concen: 45.486 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

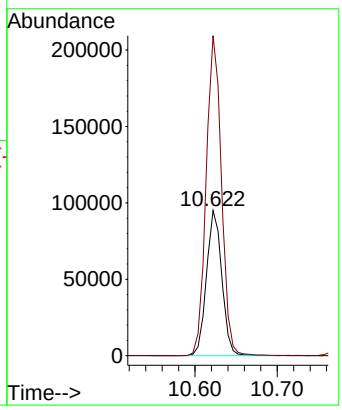
Tgt Ion:106 Resp: 12311

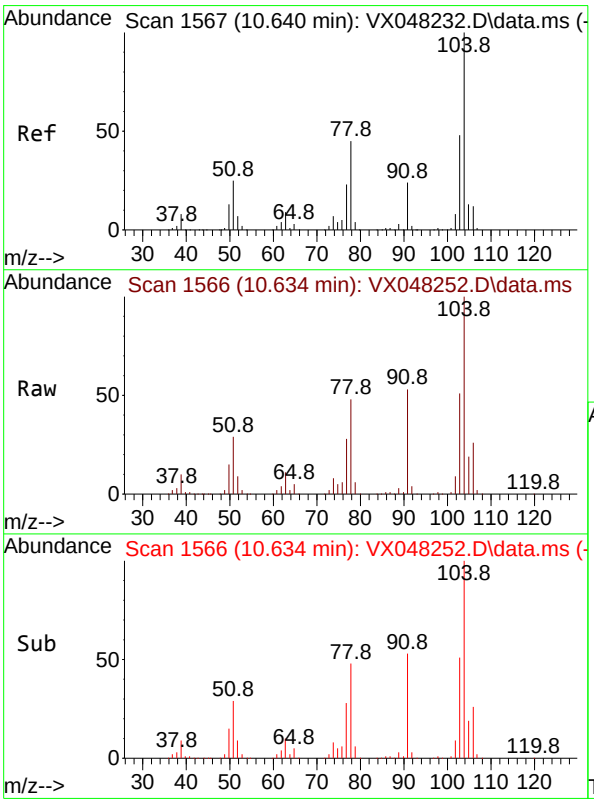
Ion	Ratio	Lower	Upper
106	100		
91	219.9	111.3	333.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

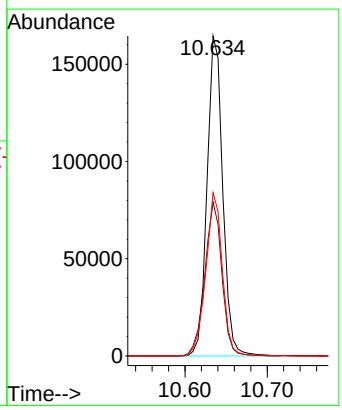


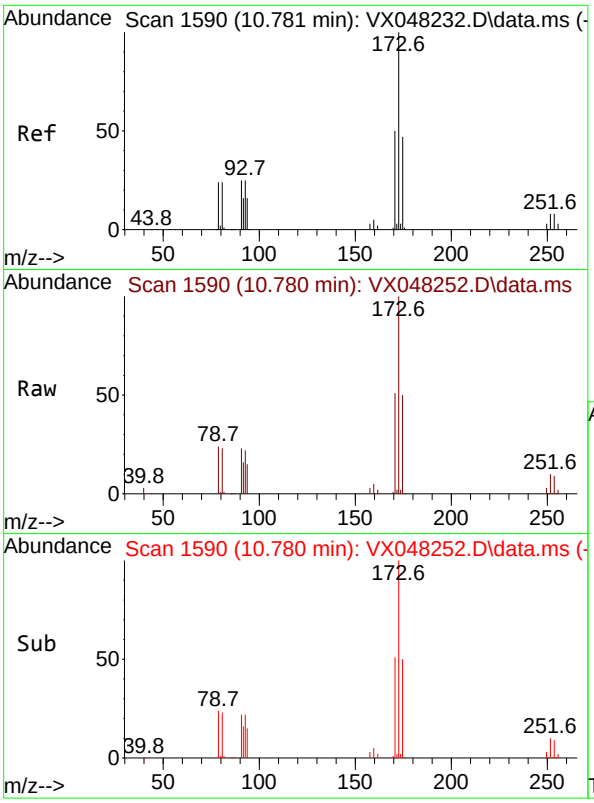


#70
Styrene
Concen: 47.309 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:104 Resp: 218038

Ion	Ratio	Lower	Upper
104	100		
78	52.5	42.2	63.4
103	53.9	43.0	64.4

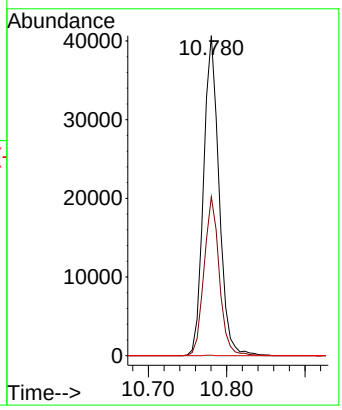




#71
Bromoform
Concen: 42.915 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:173 Resp: 5583

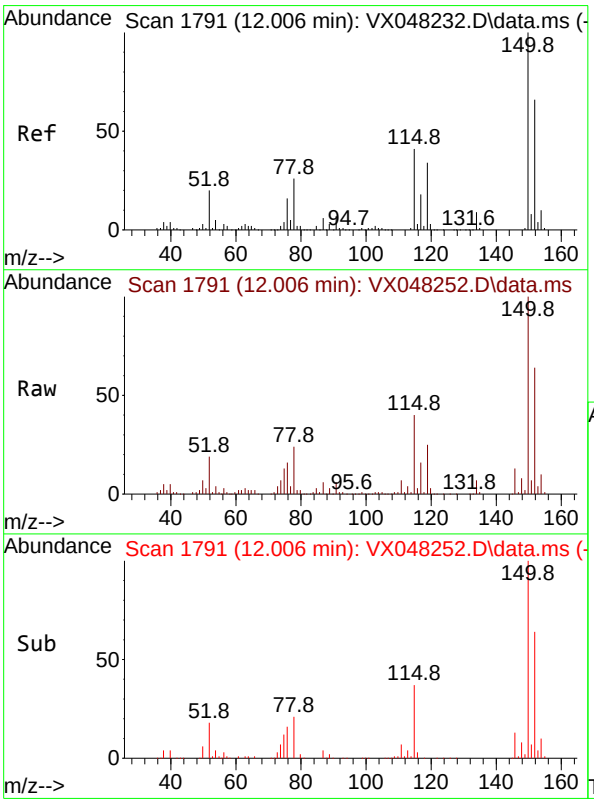
Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.0	72.0
254	0.1	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

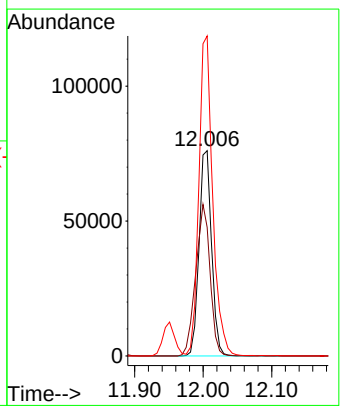
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

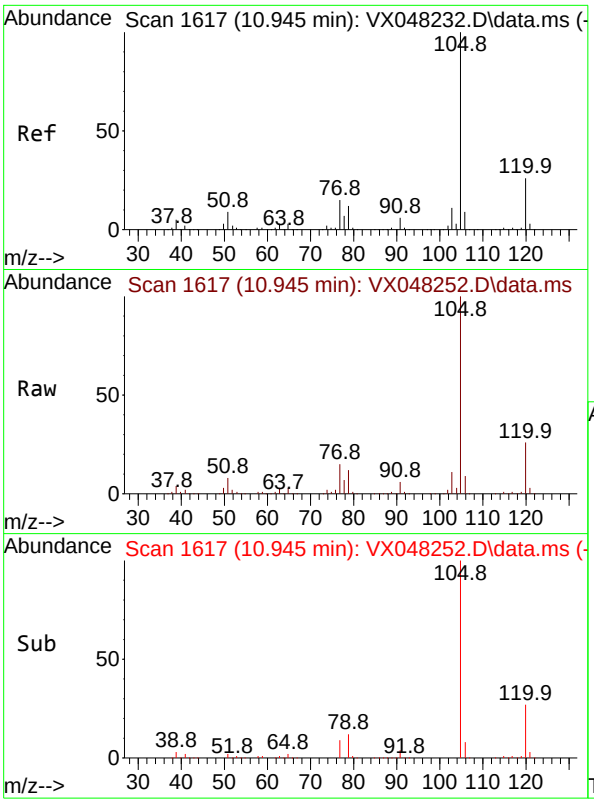


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:152 Resp: 96991

Ion	Ratio	Lower	Upper
152	100		
115	84.4	43.1	129.4
150	171.4	0.0	353.0

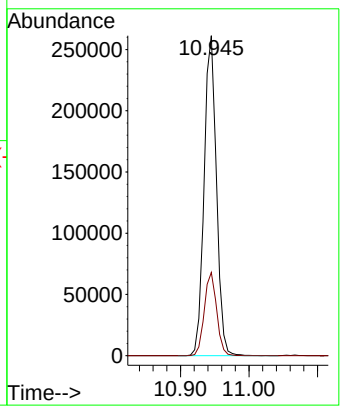




#73
Isopropylbenzene
Concen: 46.258 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:105 Resp: 32770

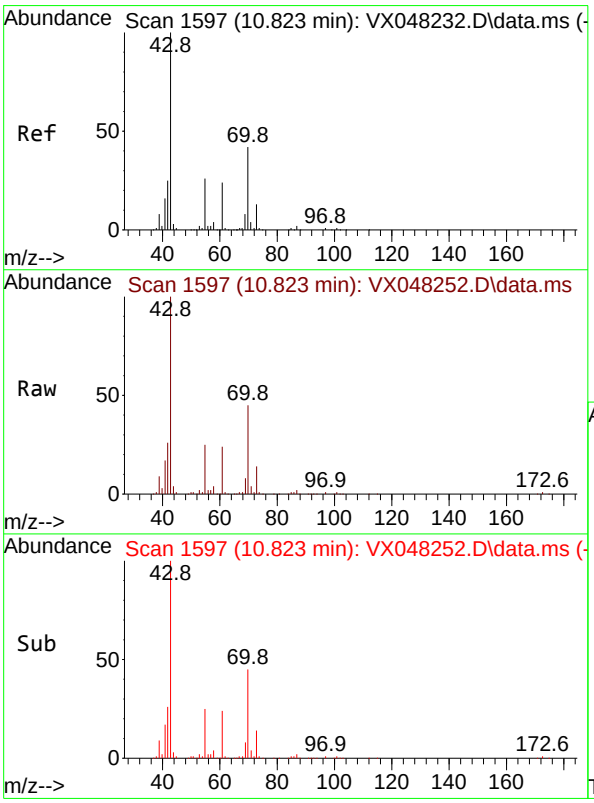
Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.0	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

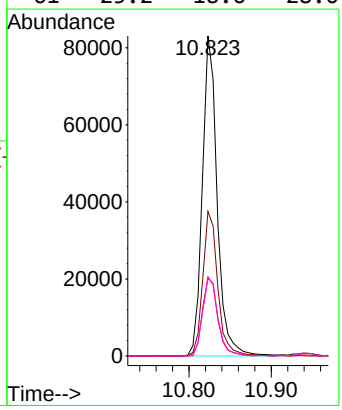
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

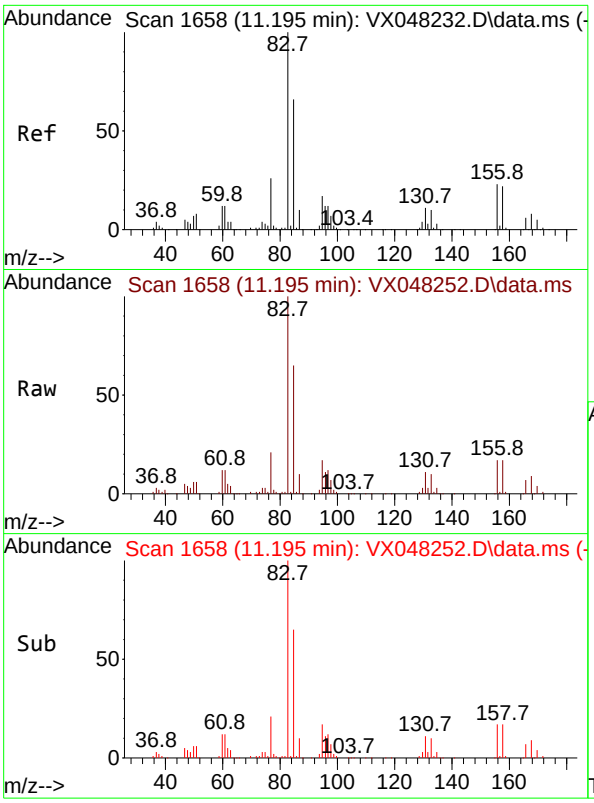


#74
N-amyl acetate
Concen: 41.490 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 43 Resp: 104260

Ion	Ratio	Lower	Upper
43	100		
70	45.6	32.2	48.2
55	25.5	19.1	28.7
61	25.2	18.6	28.0





#75
1,1,2,2-Tetrachloroethane
Concen: 42.990 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

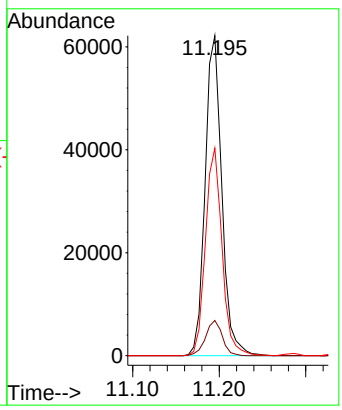
Tgt Ion: 83 Resp: 8316

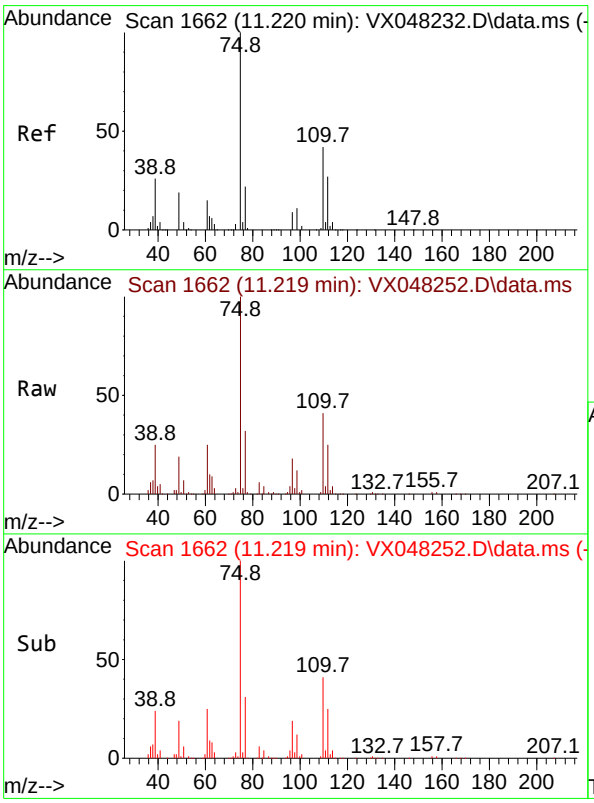
Ion	Ratio	Lower	Upper
83	100		
131	11.1	4.8	14.4
85	64.6	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

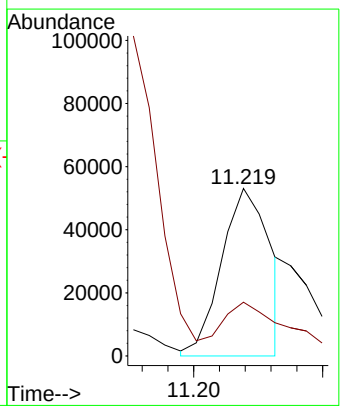


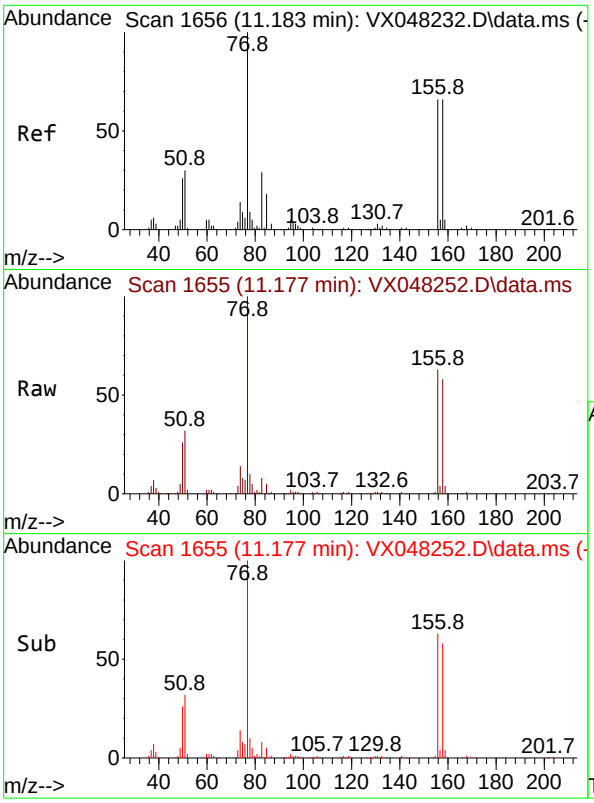


#76
1,2,3-Trichloropropane
Concen: 44.116 ug/l m
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 75 Resp: 69389

Ion	Ratio	Lower	Upper
75	100		
77	44.4	22.4	67.2

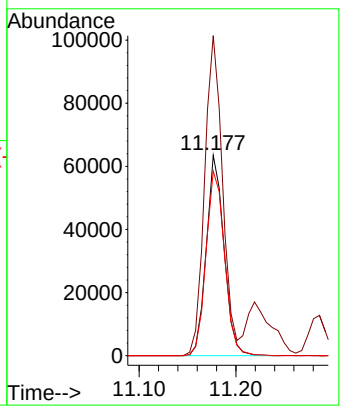




#77
Bromobenzene
Concen: 45.589 ug/l
RT: 11.177 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:156 Resp: 8098

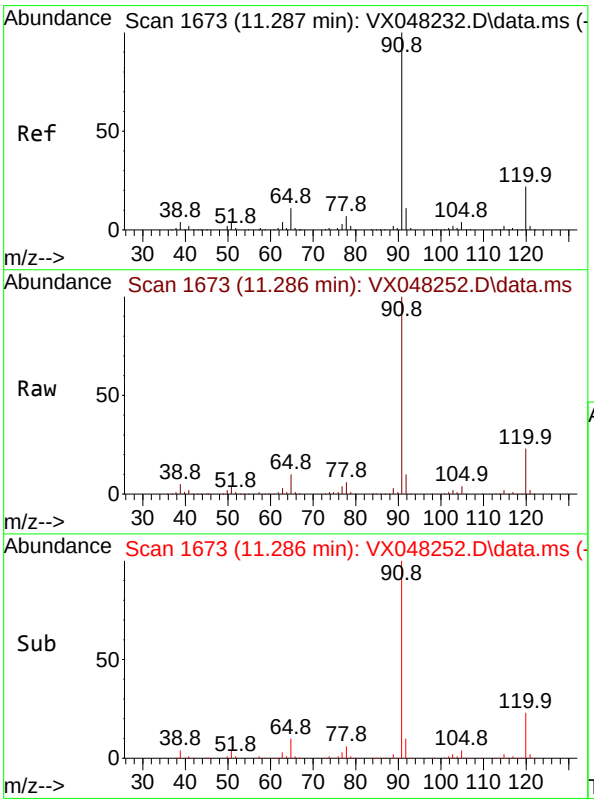
Ion	Ratio	Lower	Upper
156	100		
77	161.0	87.0	261.0
158	96.3	47.8	143.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

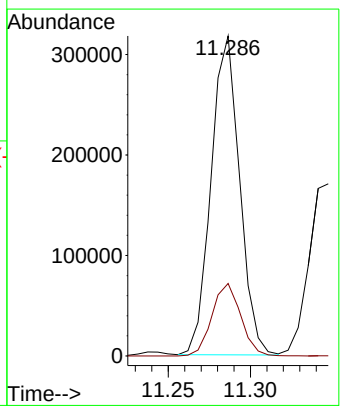
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

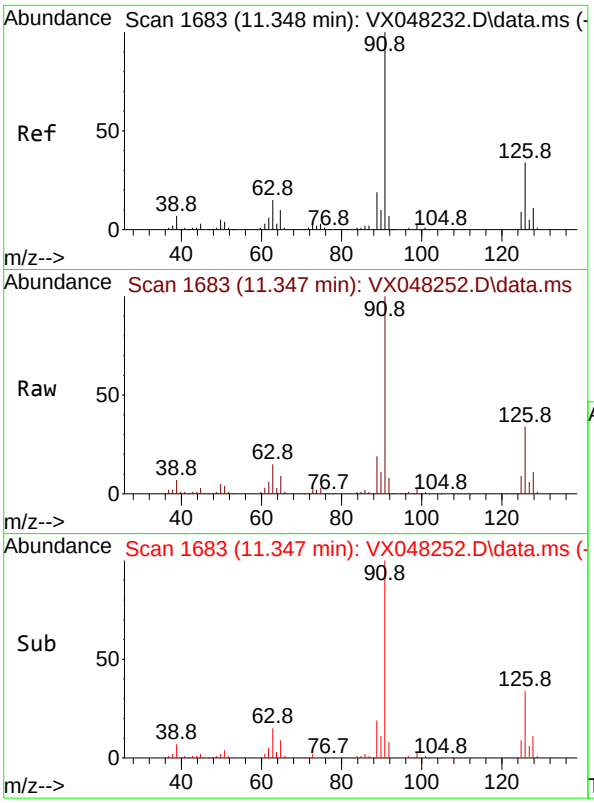


#78
n-propylbenzene
Concen: 46.739 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 91 Resp: 383372

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.1	33.1





#79
2-Chlorotoluene
Concen: 45.456 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

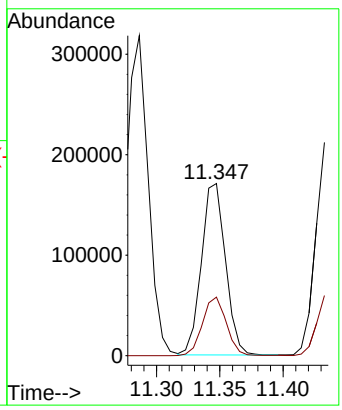
Tgt Ion: 91 Resp: 22605

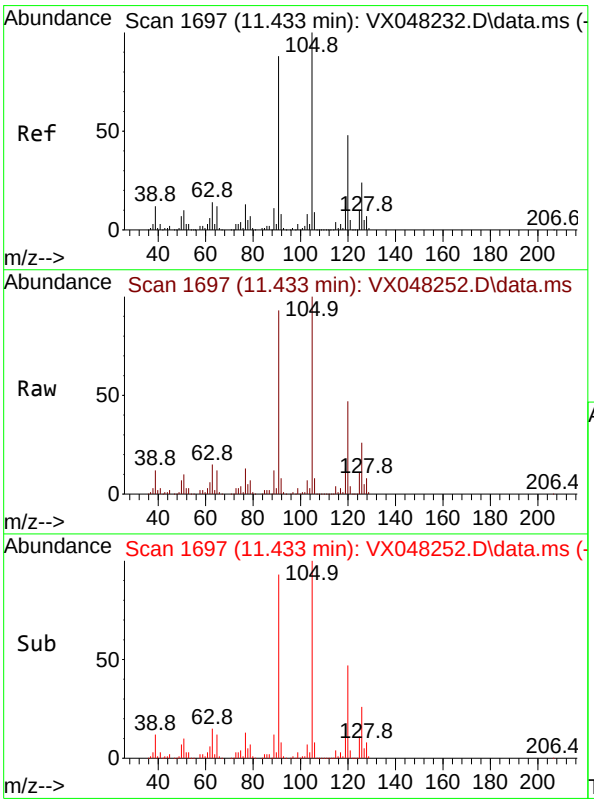
Ion	Ratio	Lower	Upper
91	100		
126	34.0	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

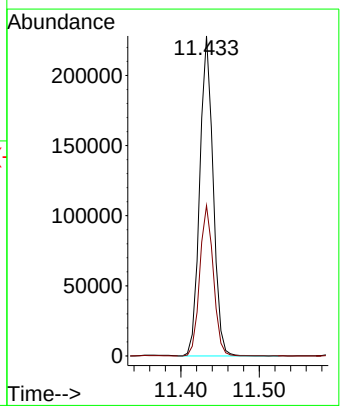


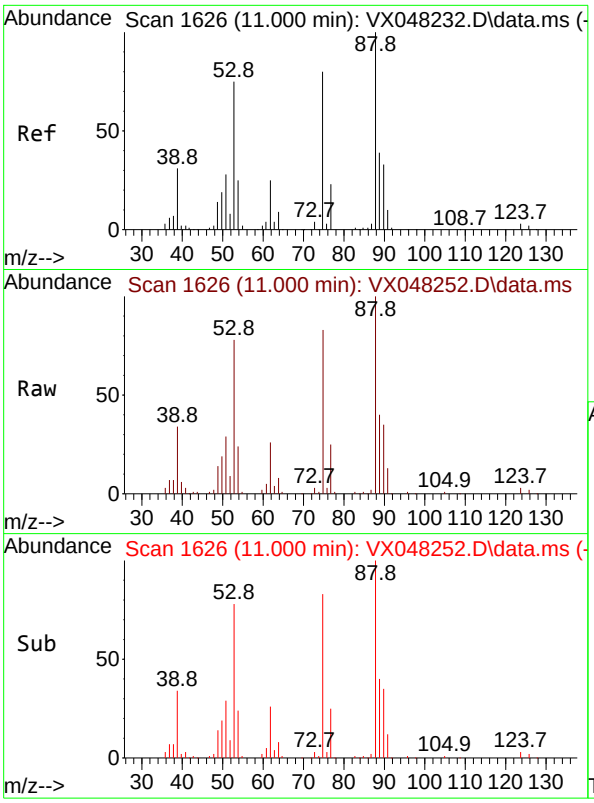


#80
1,3,5-Trimethylbenzene
Concen: 46.077 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:105 Resp: 270132

Ion	Ratio	Lower	Upper
105	100		
120	47.8	24.0	72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 43.041 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

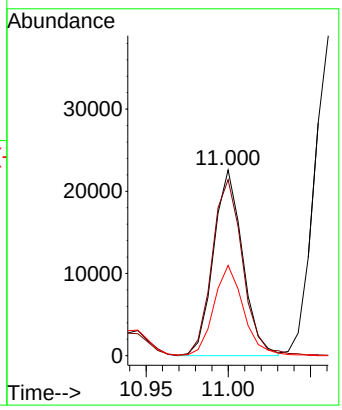
Tgt Ion: 75 Resp: 2782

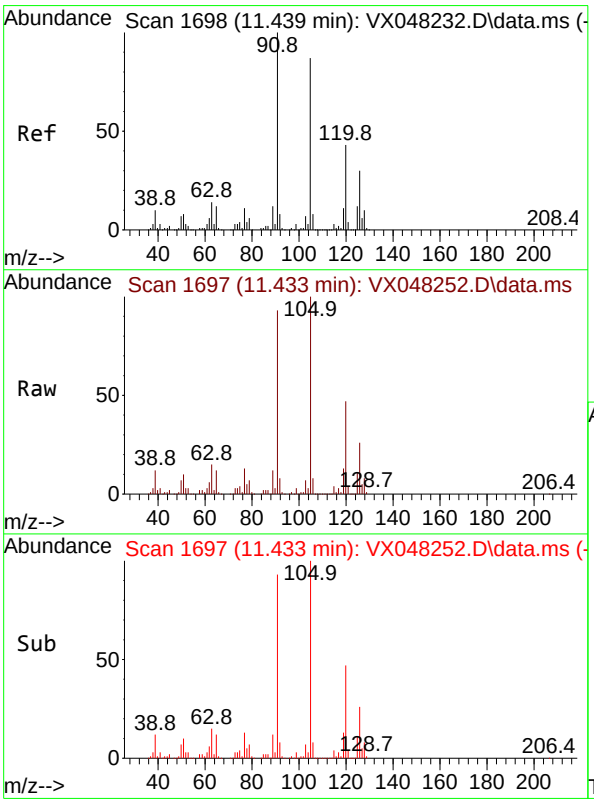
Ion	Ratio	Lower	Upper
75	100		
53	99.9	79.5	119.3
89	49.7	36.8	55.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

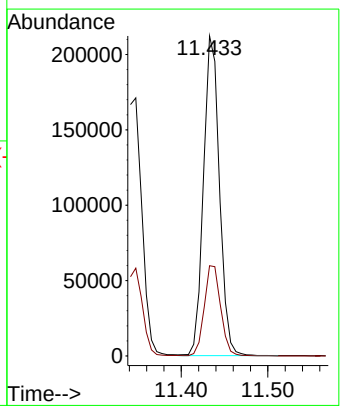


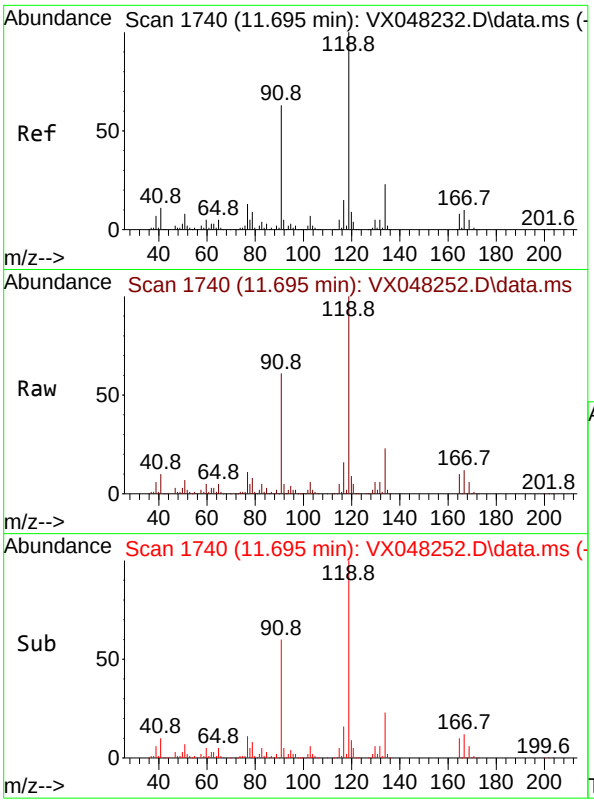


#82
4-Chlorotoluene
Concen: 45.973 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 91 Resp: 271398

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.1	42.4

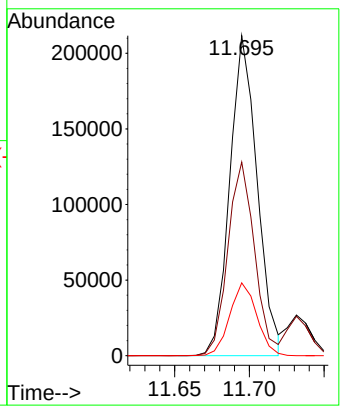




#83
tert-Butylbenzene
Concen: 44.748 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:119 Resp: 26954

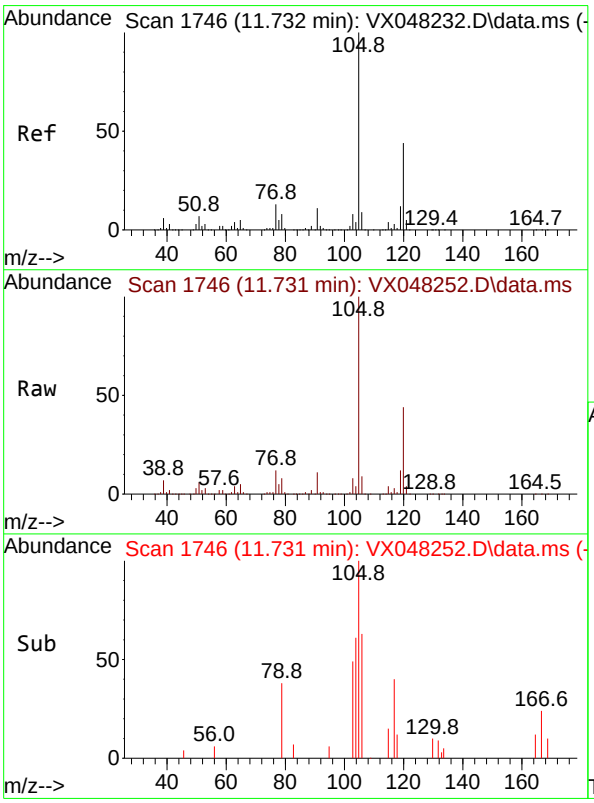
Ion	Ratio	Lower	Upper
119	100		
91	59.1	30.3	91.0
134	22.5	11.4	34.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

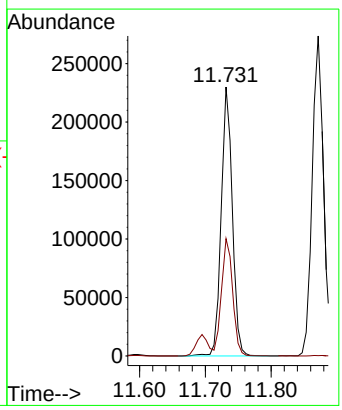
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

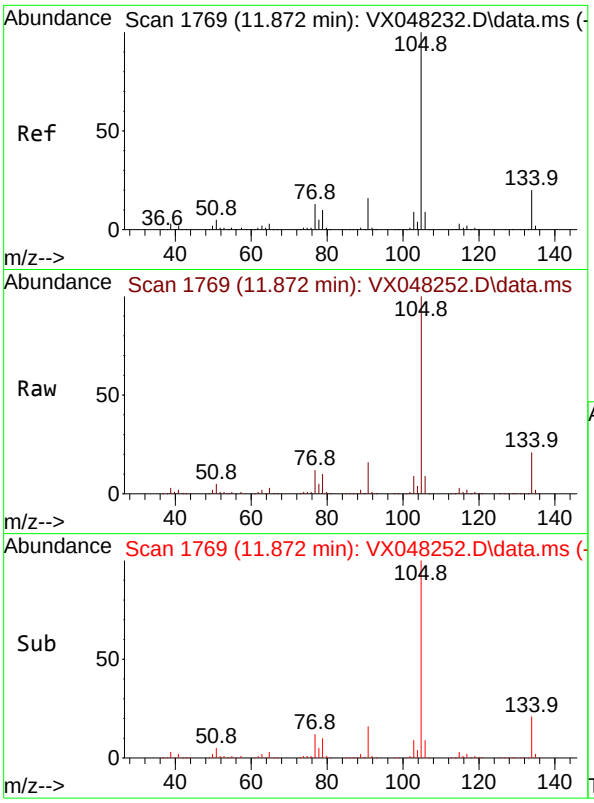


#84
1,2,4-Trimethylbenzene
Concen: 46.257 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:105 Resp: 270636

Ion	Ratio	Lower	Upper
105	100		
120	43.7	22.1	66.5





#85
sec-Butylbenzene
Concen: 44.772 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

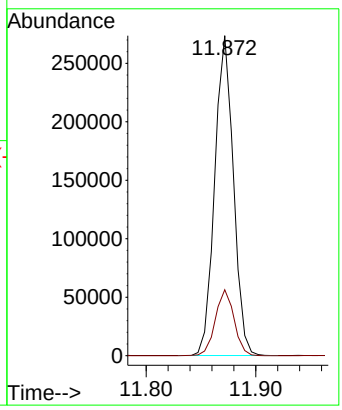
Tgt Ion:105 Resp: 32445

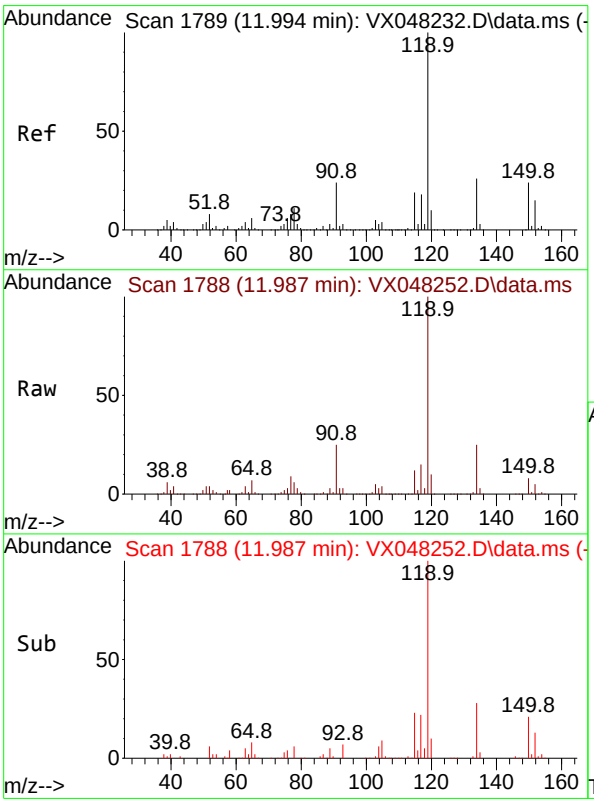
Ion	Ratio	Lower	Upper
105	100		
134	20.6	10.1	30.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

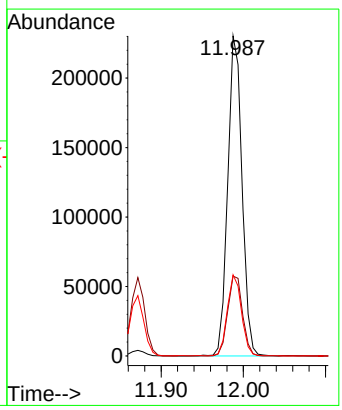


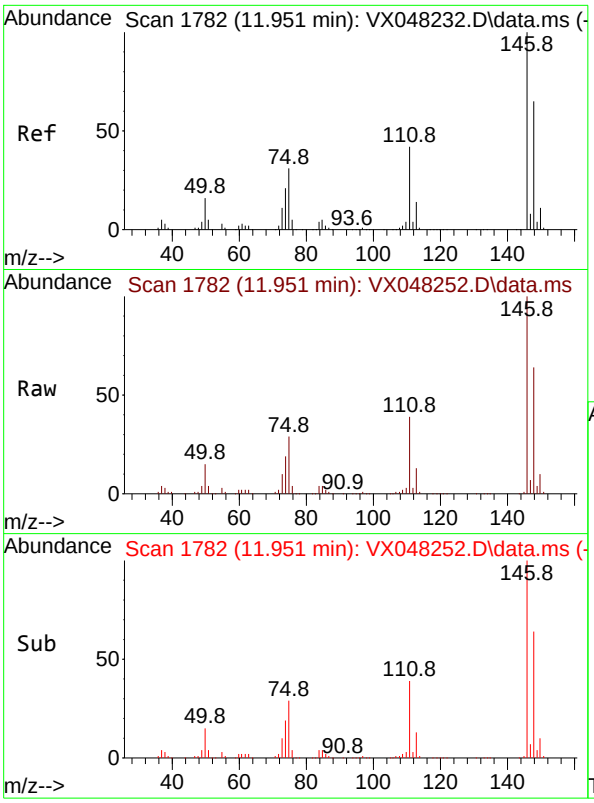


#86
p-Isopropyltoluene
Concen: 44.510 ug/l
RT: 11.987 min Scan# 1788
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:119 Resp: 278806

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.0	39.0
91	25.2	12.1	36.3

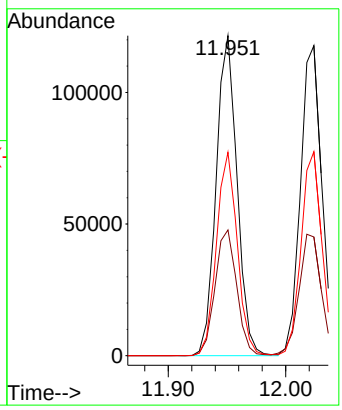




#87
1,3-Dichlorobenzene
Concen: 45.050 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:146 Resp: 15085

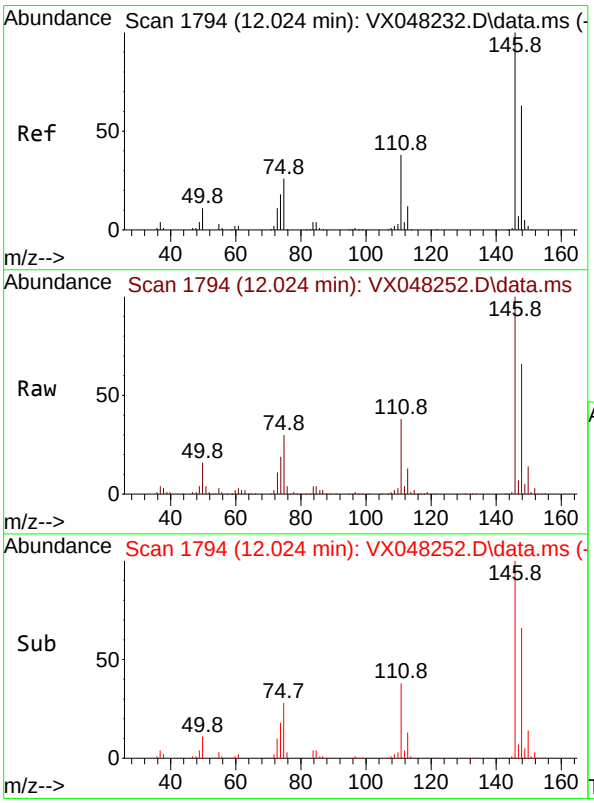
Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.4	61.2
148	63.1	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

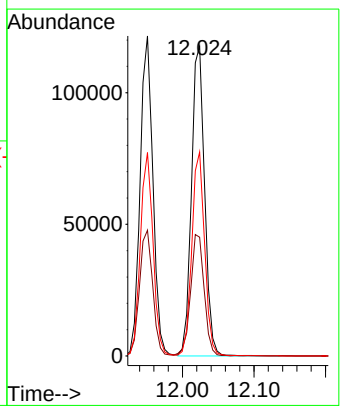
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

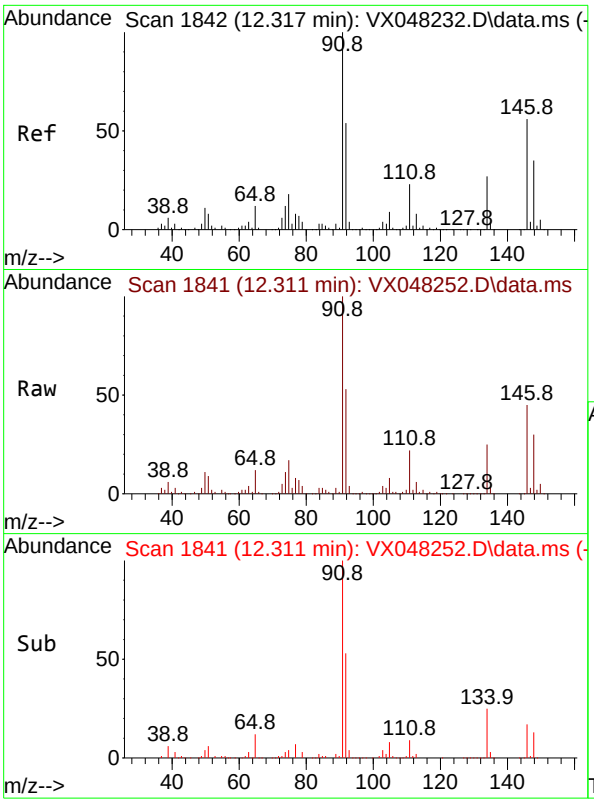


#88
1,4-Dichlorobenzene
Concen: 43.374 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:146 Resp: 150468

Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.1	60.2
148	64.4	31.8	95.3

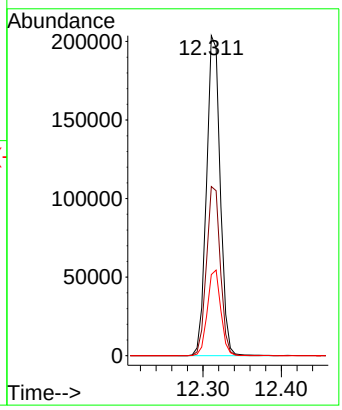




#89
n-Butylbenzene
Concen: 43.269 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 91 Resp: 24669

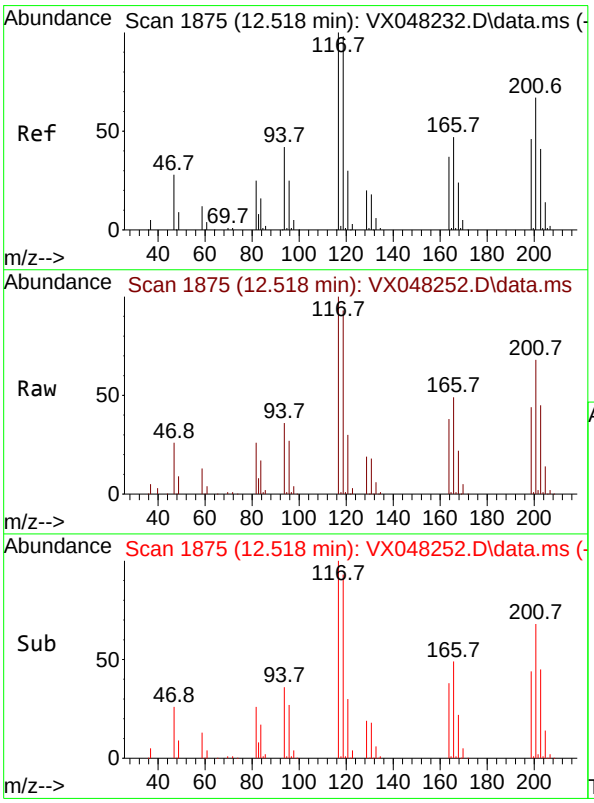
Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.9	80.6
134	26.2	12.7	38.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

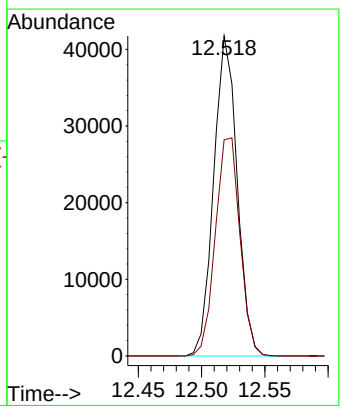
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

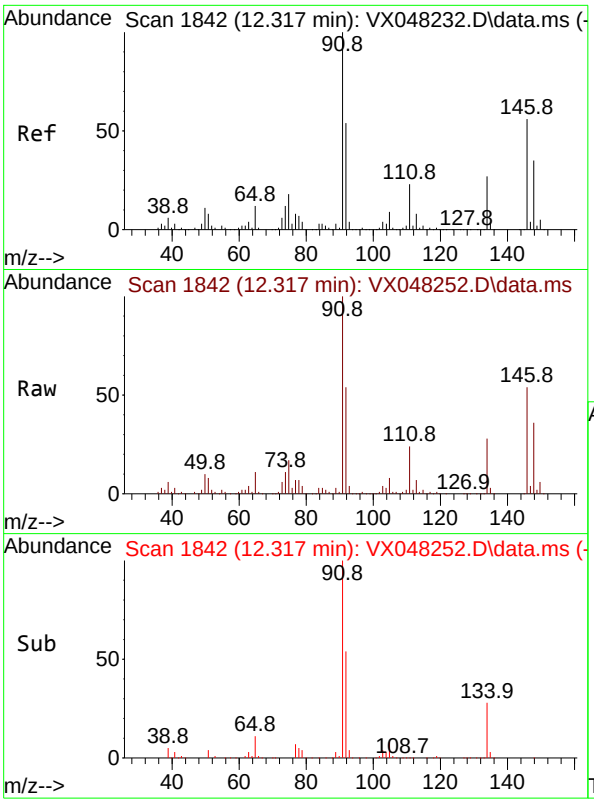


#90
Hexachloroethane
Concen: 43.425 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:117 Resp: 53716

Ion	Ratio	Lower	Upper
117	100		
201	71.6	34.1	102.2

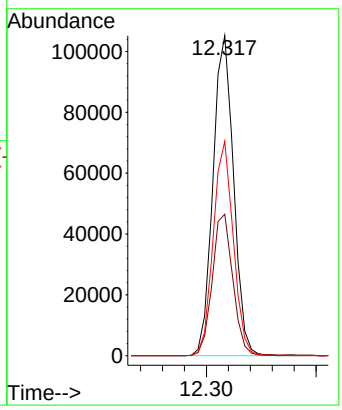




#91
1,2-Dichlorobenzene
Concen: 43.698 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:146 Resp: 13738

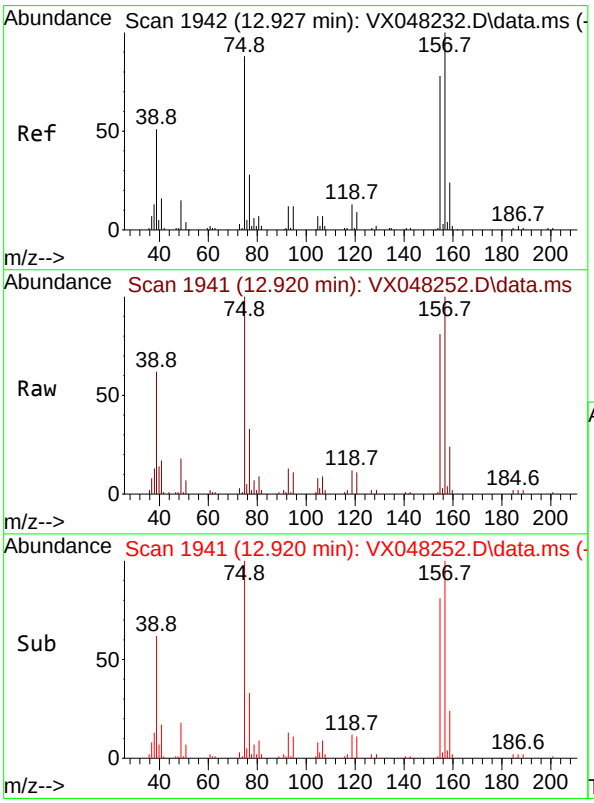
Ion	Ratio	Lower	Upper
146	100		
111	44.1	21.9	65.5
148	65.4	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

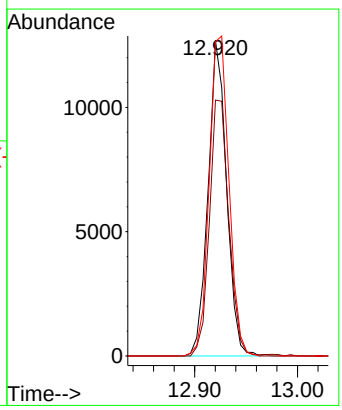
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

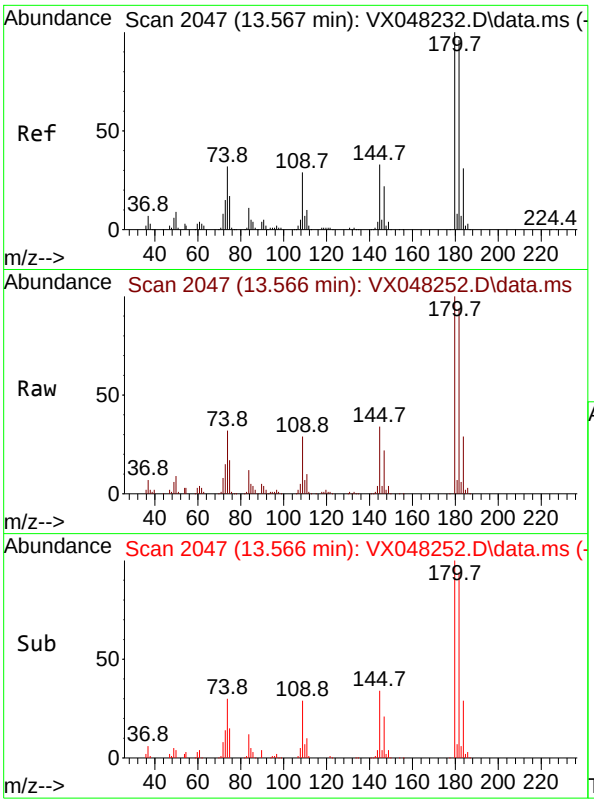


#92
1,2-Dibromo-3-Chloropropane
Concen: 40.283 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 75 Resp: 15819

Ion	Ratio	Lower	Upper
75	100		
155	85.2	42.8	128.4
157	108.0	54.2	162.6

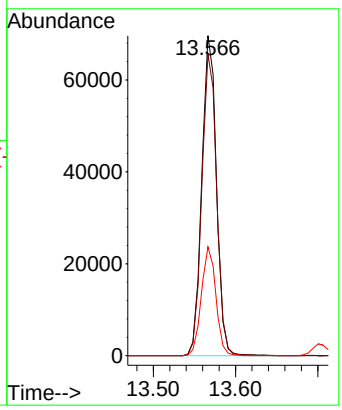




#93
1,2,4-Trichlorobenzene
Concen: 40.369 ug/l
RT: 13.566 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:180 Resp: 8583

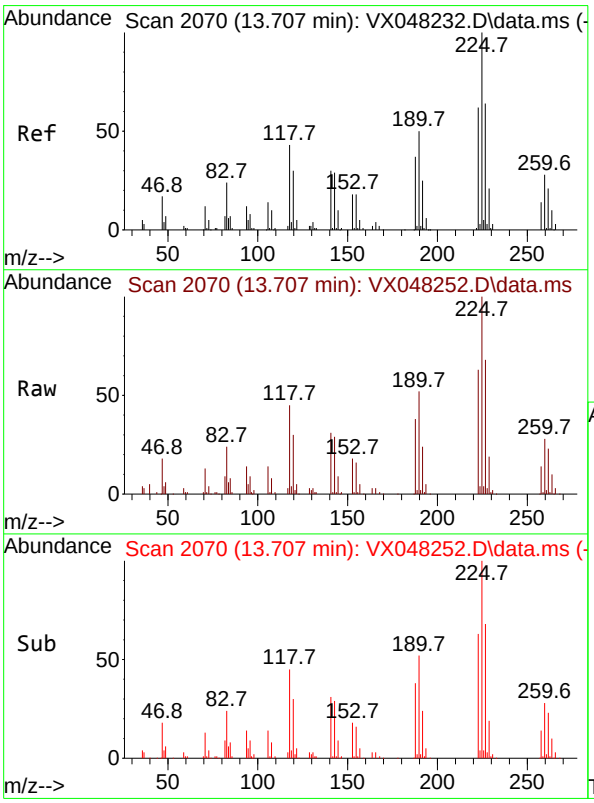
Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.3	142.0
145	33.8	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

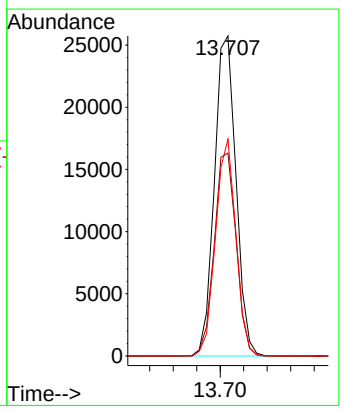
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

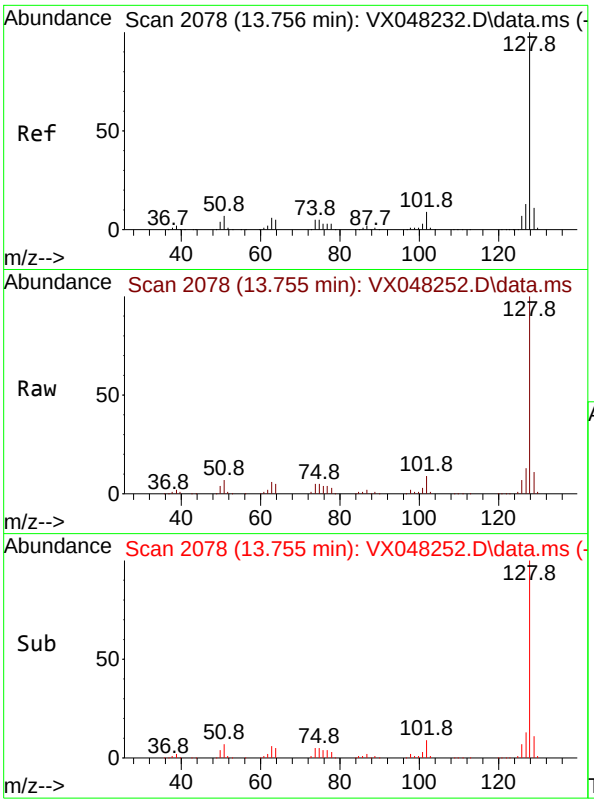


#94
Hexachlorobutadiene
Concen: 41.267 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:225 Resp: 32869

Ion	Ratio	Lower	Upper
225	100		
223	64.3	32.6	97.7
227	64.0	32.5	97.4

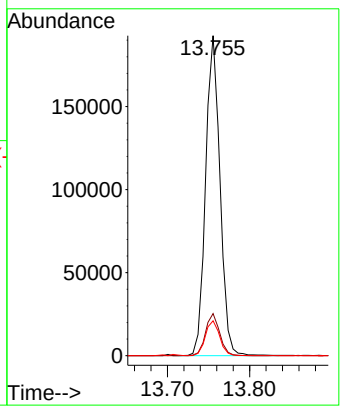




#95
Naphthalene
Concen: 41.531 ug/l
RT: 13.755 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:128 Resp: 23394

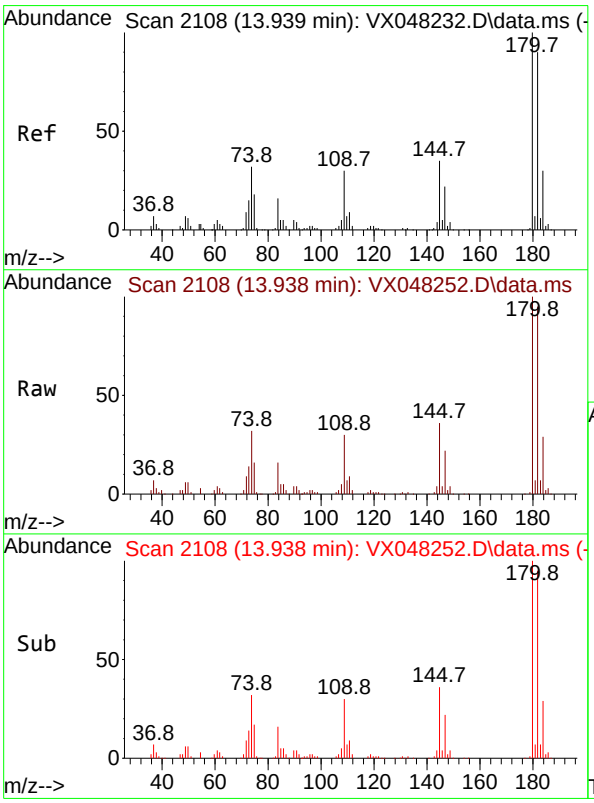
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.4
129	10.9	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

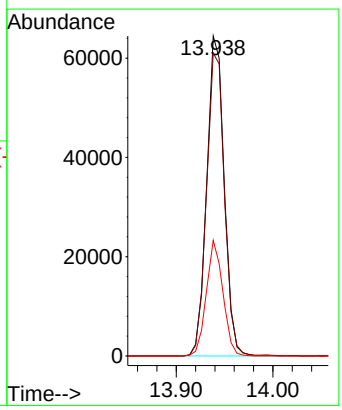
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025



#96
1,2,3-Trichlorobenzene
Concen: 41.446 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:180 Resp: 80863

Ion	Ratio	Lower	Upper
180	100		
182	97.0	46.6	139.7
145	34.4	16.9	50.7



Sample Results: **VX048252.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048252.D
Acq On : 21 Oct 2025 08:43
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 24 04:21:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	116	-0.01
2	T	Dichlorodifluoromethane	0.514	0.496	3.5	119	0.00
3	P	Chloromethane	0.480	0.468	2.5	121	0.00
4	C	Vinyl Chloride	0.444	0.448	-0.9#	125	0.00
5	T	Bromomethane	0.302	0.299	1.0	123	0.00
6	T	Chloroethane	0.261	0.261	0.0	123	0.00
7	T	Trichlorofluoromethane	0.852	0.813	4.6	117	0.00
8	T	Diethyl Ether	0.240	0.225	6.2	117	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.540	0.513	5.0	119	0.00
10	T	Methyl Iodide	0.678	0.621	8.4	108	0.00
11	T	Tert butyl alcohol	0.070	0.048	31.4#	90	0.00
12	CM	1,1-Dichloroethene	0.525	0.498	5.1#	119	0.00
13	T	Acrolein	0.071	0.077	-8.5	138	0.00
14	T	Allyl chloride	0.872	0.795	8.8	114	0.00
15	T	Acrylonitrile	0.251	0.212	15.5	102	0.00
16	T	Acetone	0.240	0.230	4.2	132	0.00
17	T	Carbon Disulfide	1.654	1.439	13.0	116	0.00
18	T	Methyl Acetate	0.502	0.411	18.1	102	0.00
19	T	Methyl tert-butyl Ether	1.791	1.576	12.0	107	-0.01
20	T	Methylene Chloride	0.586	0.556	5.1	117	0.00
21	T	trans-1,2-Dichloroethene	0.577	0.538	6.8	116	0.00
22	T	Diisopropyl ether	1.738	1.614	7.1	112	0.00
23	T	Vinyl Acetate	1.389	1.256	9.6	108	0.00
24	P	1,1-Dichloroethane	1.051	0.952	9.4	113	0.00
25	T	2-Butanone	0.304	0.260	14.5	107	0.00
26	T	2,2-Dichloropropane	0.949	0.853	10.1	113	0.00
27	T	cis-1,2-Dichloroethene	0.673	0.610	9.4	113	-0.01
28	T	Bromochloromethane	0.436	0.435	0.2	114	0.00
29	T	Tetrahydrofuran	0.182	0.139	23.6	94	0.00
30	C	Chloroform	1.123	1.006	10.4#	111	0.00
31	T	Cyclohexane	0.870	0.788	9.4	111	0.00
32	T	1,1,1-Trichloroethane	1.035	0.920	11.1	110	-0.01
33	S	1,2-Dichloroethane-d4	0.701	0.658	6.1	112	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	112	0.00
35	S	Dibromofluoromethane	0.341	0.340	0.3	116	-0.01
36	T	1,1-Dichloropropene	0.485	0.431	11.1	112	-0.01
37	T	Ethyl Acetate	0.402	0.325	19.2	99	0.00
38	T	Carbon Tetrachloride	0.599	0.533	11.0	108	0.00
39	T	Methylcyclohexane	0.573	0.510	11.0	106	0.00
40	TM	Benzene	1.409	1.280	9.2	111	-0.01
41	T	Methacrylonitrile	0.211	0.180	14.7	99	-0.01
42	TM	1,2-Dichloroethane	0.520	0.466	10.4	105	0.00
43	T	Isopropyl Acetate	0.661	0.540	18.3	96	0.00
44	TM	Trichloroethene	0.372	0.337	9.4	109	0.00
45	C	1,2-Dichloropropane	0.335	0.305	9.0#	107	0.00
46	T	Dibromomethane	0.261	0.233	10.7	106	0.00
47	T	Bromodichloromethane	0.563	0.510	9.4	107	0.00
48	T	Methyl methacrylate	0.333	0.273	18.0	95	0.00

Sample Results: **VX048252.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048252.D
Acq On : 21 Oct 2025 08:43
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 24 04:21:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	0.004	0.003	25.0	87	0.00
50	S	Toluene-d8	1.196	1.150	3.8	109	0.00
51	T	4-Methyl-2-Pentanone	0.381	0.302	20.7	90	0.00
52	CM	Toluene	0.895	0.795	11.2#	104	0.00
53	T	t-1,3-Dichloropropene	0.543	0.493	9.2	102	0.00
54	T	cis-1,3-Dichloropropene	0.586	0.529	9.7	104	0.00
55	T	1,1,2-Trichloroethane	0.333	0.291	12.6	102	0.00
56	T	Ethyl methacrylate	0.487	0.414	15.0	95	0.00
57	T	1,3-Dichloropropane	0.568	0.497	12.5	102	0.00
58	T	2-Chloroethyl Vinyl ether	0.232	0.223	3.9	97	0.00
59	T	2-Hexanone	0.266	0.227	14.7	96	0.00
60	T	Dibromochloromethane	0.447	0.388	13.2	103	0.00
61	T	1,2-Dibromoethane	0.355	0.307	13.5	101	0.00
62	S	4-Bromofluorobenzene	0.455	0.419	7.9	106	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
64	T	Tetrachloroethene	0.373	0.325	12.9	106	0.00
65	PM	Chlorobenzene	1.125	1.025	8.9	105	0.00
66	T	1,1,1,2-Tetrachloroethane	0.413	0.374	9.4	102	0.00
67	C	Ethyl Benzene	1.915	1.738	9.2#	102	0.00
68	T	m/p-Xylenes	0.712	0.666	6.5	103	0.00
69	T	o-Xylene	0.687	0.625	9.0	100	0.00
70	T	Styrene	1.170	1.107	5.4	103	0.00
71	P	Bromoform	0.330	0.283	14.2	98	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
73	T	Isopropylbenzene	3.652	3.379	7.5	103	0.00
74	T	N-amyl acetate	1.295	1.075	17.0	90	0.00
75	P	1,1,2,2-Tetrachloroethane	0.997	0.857	14.0	95	0.00
76	T	1,2,3-Trichloropropane	0.811	0.715	11.8	102	0.00
77	T	Bromobenzene	0.916	0.835	8.8	102	0.00
78	T	n-propylbenzene	4.228	3.953	6.5	103	0.00
79	T	2-Chlorotoluene	2.564	2.331	9.1	102	0.00
80	T	1,3,5-Trimethylbenzene	3.022	2.785	7.8	102	0.00
81	T	trans-1,4-Dichloro-2-butene	0.333	0.287	13.8	95	0.00
82	T	4-Chlorotoluene	3.043	2.798	8.1	102	0.00
83	T	tert-Butylbenzene	3.105	2.779	10.5	100	0.00
84	T	1,2,4-Trimethylbenzene	3.016	2.790	7.5	102	0.00
85	T	sec-Butylbenzene	3.736	3.345	10.5	101	0.00
86	T	p-Isopropyltoluene	3.229	2.875	11.0	101	0.00
87	T	1,3-Dichlorobenzene	1.726	1.555	9.9	105	0.00
88	T	1,4-Dichlorobenzene	1.788	1.551	13.3	103	0.00
89	T	n-Butylbenzene	2.939	2.543	13.5	101	0.00
90	T	Hexachloroethane	0.638	0.554	13.2	102	0.00
91	T	1,2-Dichlorobenzene	1.621	1.416	12.6	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.202	0.163	19.3	88	0.00
93	T	1,2,4-Trichlorobenzene	1.096	0.885	19.3	97	0.00
94	T	Hexachlorobutadiene	0.507	0.339	33.1#	95	0.00
95	T	Naphthalene	2.904	2.412	16.9	91	0.00

Sample Results: **VX048252.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048252.D
Acq On : 21 Oct 2025 08:43
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 24 04:21:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	0.834	17.1	96	0.00

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

Sample Results: **VX048252.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048252.D
Acq On : 21 Oct 2025 08:43
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 24 04:21:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	116	-0.01
2	T	Dichlorodifluoromethane	50.000	48.214	3.6	119	0.00
3	P	Chloromethane	50.000	48.746	2.5	121	0.00
4	C	Vinyl Chloride	50.000	50.463	-0.9#	125	0.00
5	T	Bromomethane	50.000	49.645	0.7	123	0.00
6	T	Chloroethane	50.000	50.036	-0.1	123	0.00
7	T	Trichlorofluoromethane	50.000	47.687	4.6	117	0.00
8	T	Diethyl Ether	50.000	46.991	6.0	117	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	47.541	4.9	119	0.00
10	T	Methyl Iodide	50.000	45.766	8.5	108	0.00
11	T	Tert butyl alcohol	250.000	172.886	30.8#	90	0.00
12	CM	1,1-Dichloroethene	50.000	47.416	5.2#	119	0.00
13	T	Acrolein	250.000	272.848	-9.1	138	0.00
14	T	Allyl chloride	50.000	45.594	8.8	114	0.00
15	T	Acrylonitrile	250.000	211.101	15.6	102	0.00
16	T	Acetone	250.000	239.598	4.2	132	0.00
17	T	Carbon Disulfide	50.000	43.489	13.0	116	0.00
18	T	Methyl Acetate	50.000	40.924	18.2	102	0.00
19	T	Methyl tert-butyl Ether	50.000	44.001	12.0	107	-0.01
20	T	Methylene Chloride	50.000	47.460	5.1	117	0.00
21	T	trans-1,2-Dichloroethene	50.000	46.681	6.6	116	0.00
22	T	Diisopropyl ether	50.000	46.439	7.1	112	0.00
23	T	Vinyl Acetate	250.000	226.065	9.6	108	0.00
24	P	1,1-Dichloroethane	50.000	45.296	9.4	113	0.00
25	T	2-Butanone	250.000	213.793	14.5	107	0.00
26	T	2,2-Dichloropropane	50.000	44.950	10.1	113	0.00
27	T	cis-1,2-Dichloroethene	50.000	45.309	9.4	113	-0.01
28	T	Bromochloromethane	50.000	49.917	0.2	114	0.00
29	T	Tetrahydrofuran	250.000	190.379	23.8	94	0.00
30	C	Chloroform	50.000	44.807	10.4#	111	0.00
31	T	Cyclohexane	50.000	45.286	9.4	111	0.00
32	T	1,1,1-Trichloroethane	50.000	44.462	11.1	110	-0.01
33	S	1,2-Dichloroethane-d4	50.000	46.938	6.1	112	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	112	0.00
35	S	Dibromofluoromethane	50.000	49.844	0.3	116	-0.01
36	T	1,1-Dichloropropene	50.000	44.412	11.2	112	-0.01
37	T	Ethyl Acetate	50.000	40.418	19.2	99	0.00
38	T	Carbon Tetrachloride	50.000	44.491	11.0	108	0.00
39	T	Methylcyclohexane	50.000	44.497	11.0	106	0.00
40	TM	Benzene	50.000	45.424	9.2	111	-0.01
41	T	Methacrylonitrile	50.000	42.707	14.6	99	-0.01
42	TM	1,2-Dichloroethane	50.000	44.791	10.4	105	0.00
43	T	Isopropyl Acetate	50.000	40.859	18.3	96	0.00
44	TM	Trichloroethene	50.000	45.286	9.4	109	0.00
45	C	1,2-Dichloropropane	50.000	45.586	8.8#	107	0.00
46	T	Dibromomethane	50.000	44.649	10.7	106	0.00
47	T	Bromodichloromethane	50.000	45.265	9.5	107	0.00
48	T	Methyl methacrylate	50.000	41.000	18.0	95	0.00

Sample Results: **VX048252.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048252.D
Acq On : 21 Oct 2025 08:43
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 24 04:21:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	782.834	21.7	87	0.00
50	S	Toluene-d8	50.000	48.070	3.9	109	0.00
51	T	4-Methyl-2-Pentanone	250.000	198.518	20.6	90	0.00
52	CM	Toluene	50.000	44.443	11.1#	104	0.00
53	T	t-1,3-Dichloropropene	50.000	45.367	9.3	102	0.00
54	T	cis-1,3-Dichloropropene	50.000	45.199	9.6	104	0.00
55	T	1,1,2-Trichloroethane	50.000	43.758	12.5	102	0.00
56	T	Ethyl methacrylate	50.000	42.533	14.9	95	0.00
57	T	1,3-Dichloropropane	50.000	43.726	12.5	102	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	213.469	14.6	97	0.00
59	T	2-Hexanone	250.000	213.881	14.4	96	0.00
60	T	Dibromochloromethane	50.000	43.319	13.4	103	0.00
61	T	1,2-Dibromoethane	50.000	43.228	13.5	101	0.00
62	S	4-Bromofluorobenzene	50.000	46.072	7.9	106	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	107	0.00
64	T	Tetrachloroethene	50.000	43.569	12.9	106	0.00
65	PM	Chlorobenzene	50.000	45.568	8.9	105	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	45.215	9.6	102	0.00
67	C	Ethyl Benzene	50.000	45.371	9.3#	102	0.00
68	T	m/p-Xylenes	100.000	93.624	6.4	103	0.00
69	T	o-Xylene	50.000	45.486	9.0	100	0.00
70	T	Styrene	50.000	47.309	5.4	103	0.00
71	P	Bromoform	50.000	42.915	14.2	98	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	105	0.00
73	T	Isopropylbenzene	50.000	46.258	7.5	103	0.00
74	T	N-amyl acetate	50.000	41.490	17.0	90	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	42.990	14.0	95	0.00
76	T	1,2,3-Trichloropropane	50.000	44.116	11.8	102	0.00
77	T	Bromobenzene	50.000	45.589	8.8	102	0.00
78	T	n-propylbenzene	50.000	46.739	6.5	103	0.00
79	T	2-Chlorotoluene	50.000	45.456	9.1	102	0.00
80	T	1,3,5-Trimethylbenzene	50.000	46.077	7.8	102	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	43.041	13.9	95	0.00
82	T	4-Chlorotoluene	50.000	45.973	8.1	102	0.00
83	T	tert-Butylbenzene	50.000	44.748	10.5	100	0.00
84	T	1,2,4-Trimethylbenzene	50.000	46.257	7.5	102	0.00
85	T	sec-Butylbenzene	50.000	44.772	10.5	101	0.00
86	T	p-Isopropyltoluene	50.000	44.510	11.0	101	0.00
87	T	1,3-Dichlorobenzene	50.000	45.050	9.9	105	0.00
88	T	1,4-Dichlorobenzene	50.000	43.374	13.3	103	0.00
89	T	n-Butylbenzene	50.000	43.269	13.5	101	0.00
90	T	Hexachloroethane	50.000	43.425	13.2	102	0.00
91	T	1,2-Dichlorobenzene	50.000	43.698	12.6	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	40.283	19.4	88	0.00
93	T	1,2,4-Trichlorobenzene	50.000	40.369	19.3	97	0.00
94	T	Hexachlorobutadiene	50.000	41.267	17.5	95	0.00
95	T	Naphthalene	50.000	41.531	16.9	91	0.00

Sample Results: **VX048252.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048252.D
Acq On : 21 Oct 2025 08:43
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 24 04:21:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	41.446	17.1	96	0.00

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

Raw Data: **VX048278.D**

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	TETR06
Lab Code:	ACE	SDG No.:	Q3371
Instrument ID:	MSVOA_X	Calibration Date/Time:	10/21/2025 18:09
Lab File ID:	VX048278.D	Init. Calib. Date(s):	10/20/2025 10/20/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	10:59 13:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.514	0.469		-8.76	50
Chloromethane	0.480	0.395	0.1	-17.71	50
Vinyl Chloride	0.444	0.366		-17.57	50
Bromomethane	0.302	0.258		-14.57	50
Chloroethane	0.261	0.231		-11.49	50
Trichlorofluoromethane	0.852	0.801		-5.99	50
1,1,2-Trichlorotrifluoroethane	0.540	0.479		-11.3	50
1,1-Dichloroethene	0.525	0.490		-6.67	50
Acetone	0.240	0.185		-22.92	50
Carbon Disulfide	1.654	1.375		-16.87	50
Methyl tert-butyl Ether	1.791	1.749		-2.35	50
Methyl Acetate	0.502	0.451		-10.16	50
Methylene Chloride	0.586	0.564		-3.75	50
trans-1,2-Dichloroethene	0.577	0.537		-6.93	50
1,1-Dichloroethane	1.051	0.987	0.1	-6.09	50
Cyclohexane	0.870	0.770		-11.49	50
2-Butanone	0.304	0.262		-13.82	50
Carbon Tetrachloride	0.599	0.547		-8.68	50
cis-1,2-Dichloroethene	0.673	0.652		-3.12	50
Bromochloromethane	0.436	0.416		-4.59	50
Chloroform	1.123	1.104		-1.69	50
1,1,1-Trichloroethane	1.035	1.009		-2.51	50
Methylcyclohexane	0.573	0.489		-14.66	50
Benzene	1.409	1.285		-8.8	50
1,2-Dichloroethane	0.520	0.519		-0.19	50
Trichloroethene	0.372	0.348		-6.45	50
1,2-Dichloropropane	0.335	0.311		-7.16	50
Bromodichloromethane	0.563	0.545		-3.2	50
4-Methyl-2-Pentanone	0.381	0.346		-9.19	50
Toluene	0.895	0.860		-3.91	50
t-1,3-Dichloropropene	0.543	0.540		-0.55	50
cis-1,3-Dichloropropene	0.586	0.561		-4.27	50
1,1,2-Trichloroethane	0.333	0.324		-2.7	50
2-Hexanone	0.266	0.244		-8.27	50
Dibromochloromethane	0.447	0.441		-1.34	50
1,2-Dibromoethane	0.355	0.344		-3.1	50
Tetrachloroethene	0.373	0.316		-15.28	50
Chlorobenzene	1.125	1.027	0.3	-8.71	50

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

Raw Data: **VX048278.D**

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	TETR06
Lab Code:	ACE	SDG No.:	Q3371
Instrument ID:	MSVOA_X	Calibration Date/Time:	10/21/2025 18:09
Lab File ID:	VX048278.D	Init. Calib. Date(s):	10/20/2025 10/20/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	10:59 13:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.915	1.736		-9.35	50
m/p-Xylenes	0.712	0.662		-7.02	50
o-Xylene	0.687	0.645		-6.11	50
Styrene	1.170	1.126		-3.76	50
Bromoform	0.330	0.304	0.1	-7.88	50
Isopropylbenzene	3.652	3.018		-17.36	50
1,1,2,2-Tetrachloroethane	0.997	0.843	0.3	-15.45	50
1,3-Dichlorobenzene	1.726	1.412		-18.19	50
1,4-Dichlorobenzene	1.788	1.440		-19.46	50
1,2-Dichlorobenzene	1.621	1.364		-15.85	50
1,2-Dibromo-3-Chloropropane	0.202	0.166		-17.82	50
1,2,4-Trichlorobenzene	1.096	0.844		-22.99	50
1,2,3-Trichlorobenzene	1.006	0.810		-19.48	50
1,2-Dichloroethane-d4	0.701	0.787		12.27	50
Dibromofluoromethane	0.341	0.360		5.57	50
Toluene-d8	1.196	1.238		3.51	50
4-Bromofluorobenzene	0.455	0.547		20.22	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\VX102125\
Data File : VX048278.D
Acq On : 21 Oct 2025 18:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Oct 24 04:30:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	110260	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	183155	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	177679	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	103139	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	86809	56.153	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 112.300%			
35) Dibromofluoromethane	5.373	113	66021	52.800	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.600%			
50) Toluene-d8	8.635	98	226656	51.716	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 103.440%			
62) 4-Bromofluorobenzene	11.061	95	100241	60.121	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 120.240%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	51728	45.636	ug/l	96
3) Chloromethane	1.300	50	43511	41.125	ug/l	100
4) Vinyl Chloride	1.380	62	40381	41.217	ug/l	100
5) Bromomethane	1.617	94	28469	42.818	ug/l	97
6) Chloroethane	1.697	64	25432	44.175	ug/l	92
7) Trichlorofluoromethane	1.898	101	88297	46.992	ug/l	98
8) Diethyl Ether	2.136	74	24255	45.877	ug/l	83
9) 1,1,2-Trichlorotrifluo...	2.337	101	52798	44.374	ug/l	95
10) Methyl Iodide	2.459	142	76908	51.416	ug/l	98
11) Tert butyl alcohol	2.940	59	31351	204.253	ug/l	98
12) 1,1-Dichloroethene	2.325	96	53980	46.632	ug/l	96
13) Acrolein	2.239	56	42126	269.101	ug/l	100
14) Allyl chloride	2.666	41	86002	44.749	ug/l	93
15) Acrylonitrile	3.056	53	127802	230.910	ug/l	100
16) Acetone	2.373	43	101775	191.905	ug/l	97
17) Carbon Disulfide	2.514	76	151626	41.561	ug/l	99
18) Methyl Acetate	2.703	43	49775	44.941	ug/l	91
19) Methyl tert-butyl Ether	3.111	73	192863	48.837	ug/l	96
20) Methylene Chloride	2.788	84	62187	48.124	ug/l	90
21) trans-1,2-Dichloroethene	3.093	96	59217	46.571	ug/l	100
22) Diisopropyl ether	3.751	45	183332	47.827	ug/l #	88
23) Vinyl Acetate	3.715	43	742546	242.501	ug/l	96
24) 1,1-Dichloroethane	3.611	63	108877	46.973	ug/l	99
25) 2-Butanone	4.538	43	144575	215.374	ug/l	96
26) 2,2-Dichloropropane	4.465	77	93655	44.766	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	71911	48.458	ug/l	97
28) Bromochloromethane	4.891	49	45824	47.680	ug/l #	81
29) Tetrahydrofuran	4.989	42	87839	218.490	ug/l	89
30) Chloroform	5.086	83	121680	49.137	ug/l	98
31) Cyclohexane	5.464	56	84891	44.238	ug/l #	86
32) 1,1,1-Trichloroethane	5.373	97	111254	48.747	ug/l	98
36) 1,1-Dichloropropene	5.678	75	80634	45.371	ug/l	98
37) Ethyl Acetate	4.702	43	63123	42.851	ug/l	97
38) Carbon Tetrachloride	5.666	117	100140	45.671	ug/l	99
39) Methylcyclohexane	7.366	83	89560	42.670	ug/l	96
40) Benzene	6.025	78	235395	45.621	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048278.D
Acq On : 21 Oct 2025 18:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Oct 24 04:30:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.903	41	35543	45.945	ug/l		96
42) 1,2-Dichloroethane	6.074	62	95021	49.906	ug/l		100
43) Isopropyl Acetate	6.324	43	109791	45.374	ug/l		96
44) Trichloroethene	7.110	130	63675	46.735	ug/l		93
45) 1,2-Dichloropropane	7.415	63	57013	46.474	ug/l		95
46) Dibromomethane	7.568	93	45069	47.155	ug/l		93
47) Bromodichloromethane	7.805	83	99888	48.404	ug/l		96
48) Methyl methacrylate	7.677	41	56463	46.243	ug/l		94
49) 1,4-Dioxane	7.647	88	14536	901.119	ug/l		89
51) 4-Methyl-2-Pentanone	8.555	43	317029	227.242	ug/l		94
52) Toluene	8.702	92	157443	48.031	ug/l		97
53) t-1,3-Dichloropropene	8.964	75	98842	49.703	ug/l		99
54) cis-1,3-Dichloropropene	8.354	75	102835	47.929	ug/l		93
55) 1,1,2-Trichloroethane	9.134	97	59379	48.711	ug/l		96
56) Ethyl methacrylate	9.104	69	87411	49.025	ug/l		95
57) 1,3-Dichloropropane	9.293	76	102643	49.295	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.226	63	230656	240.651	ug/l		94
59) 2-Hexanone	9.415	43	223051	229.287	ug/l		95
60) Dibromochloromethane	9.506	129	80763	49.293	ug/l		99
61) 1,2-Dibromoethane	9.592	107	63070	48.532	ug/l		98
64) Tetrachloroethene	9.256	164	56206	42.374	ug/l		98
65) Chlorobenzene	10.061	112	182408	45.637	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.146	131	67128	45.726	ug/l		98
67) Ethyl Benzene	10.177	91	308525	45.338	ug/l		98
68) m/p-Xylenes	10.287	106	235258	93.046	ug/l		100
69) o-Xylene	10.628	106	114670	46.976	ug/l		99
70) Styrene	10.640	104	200106	48.144	ug/l		99
71) Bromoform	10.780	173	53984	46.009	ug/l	#	100
73) Isopropylbenzene	10.945	105	311296	41.323	ug/l		99
74) N-amyl acetate	10.823	43	107536	40.243	ug/l		95
75) 1,1,2,2-Tetrachloroethane	11.195	83	86911	42.247	ug/l		99
76) 1,2,3-Trichloropropane	11.219	75	79495m	47.529	ug/l		
77) Bromobenzene	11.183	156	80549	42.643	ug/l		94
78) n-propylbenzene	11.286	91	365847	41.944	ug/l		98
79) 2-Chlorotoluene	11.347	91	220518	41.700	ug/l		97
80) 1,3,5-Trimethylbenzene	11.433	105	264110	42.365	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	27633	40.195	ug/l		99
82) 4-Chlorotoluene	11.433	91	265279	42.258	ug/l		98
83) tert-Butylbenzene	11.695	119	269712	42.107	ug/l		96
84) 1,2,4-Trimethylbenzene	11.732	105	264898	42.577	ug/l		100
85) sec-Butylbenzene	11.872	105	314902	40.863	ug/l		99
86) p-Isopropyltoluene	11.988	119	272639	40.931	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	145669	40.908	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	148555	40.270	ug/l		100
89) n-Butylbenzene	12.311	91	236982	39.088	ug/l		99
90) Hexachloroethane	12.518	117	50186	38.153	ug/l		92
91) 1,2-Dichlorobenzene	12.317	146	140638	42.066	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	17092	40.930	ug/l		100
93) 1,2,4-Trichlorobenzene	13.567	180	87024	38.490	ug/l		99
94) Hexachlorobutadiene	13.707	225	32660	38.565	ug/l		97
95) Naphthalene	13.756	128	250514	41.822	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	83499	40.246	ug/l		98

Sample Results: **VX048278.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048278.D
Acq On : 21 Oct 2025 18:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

Quant Time: Oct 24 04:30:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

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

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

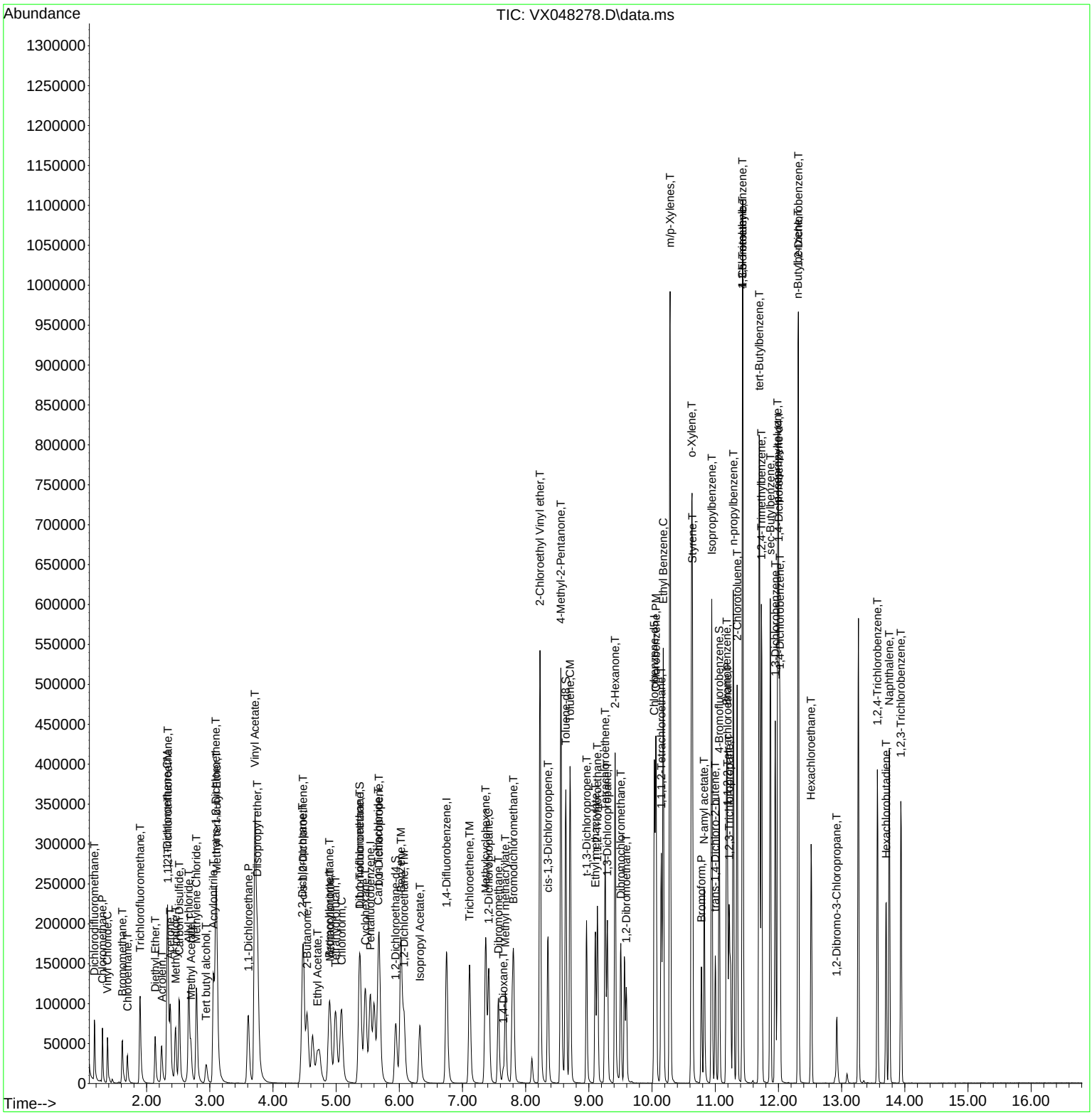
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048278.D
Acq On : 21 Oct 2025 18:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

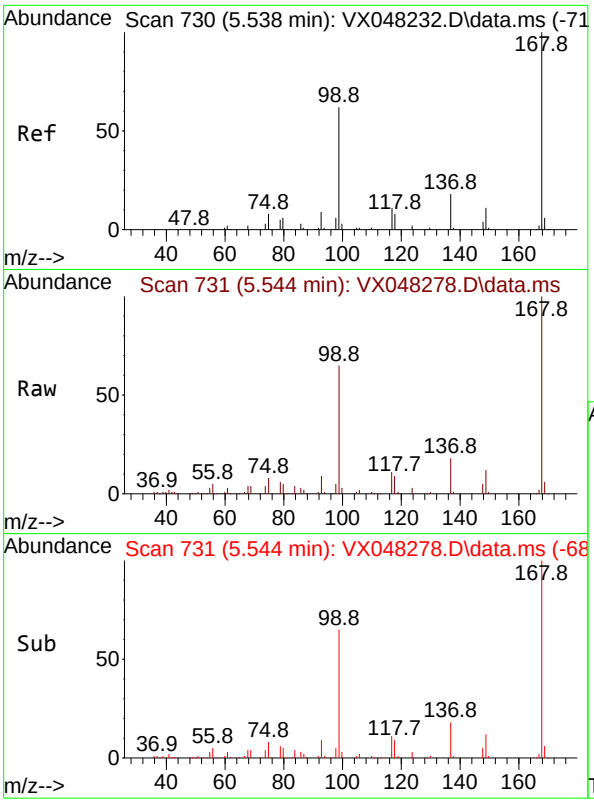
Quant Time: Oct 24 04:30:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

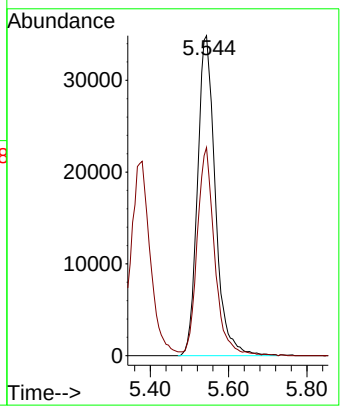




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:168 Resp: 11026

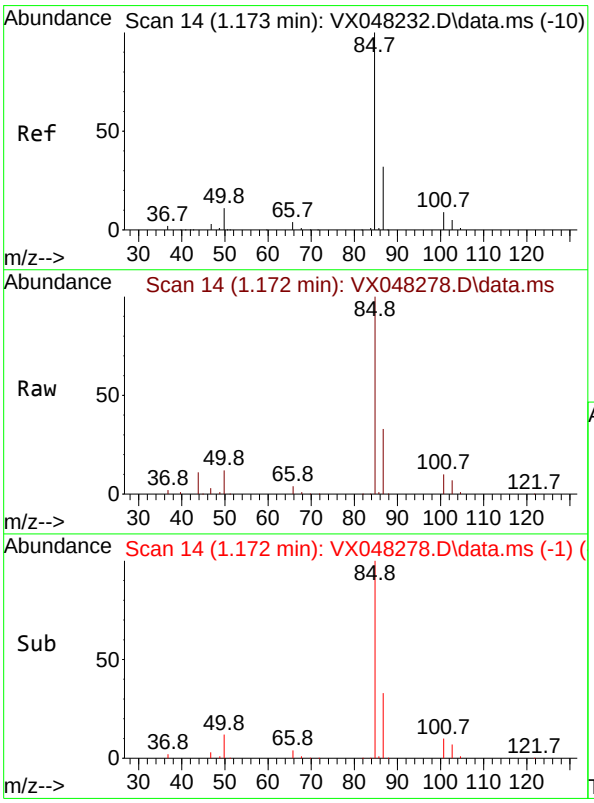
Ion	Ratio	Lower	Upper
168	100		
99	65.1	46.4	69.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

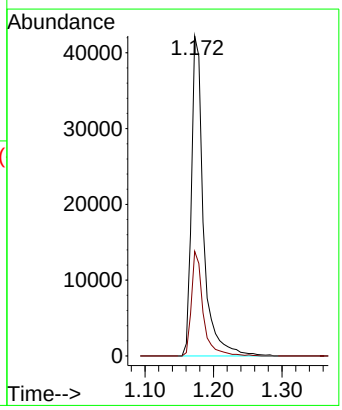
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

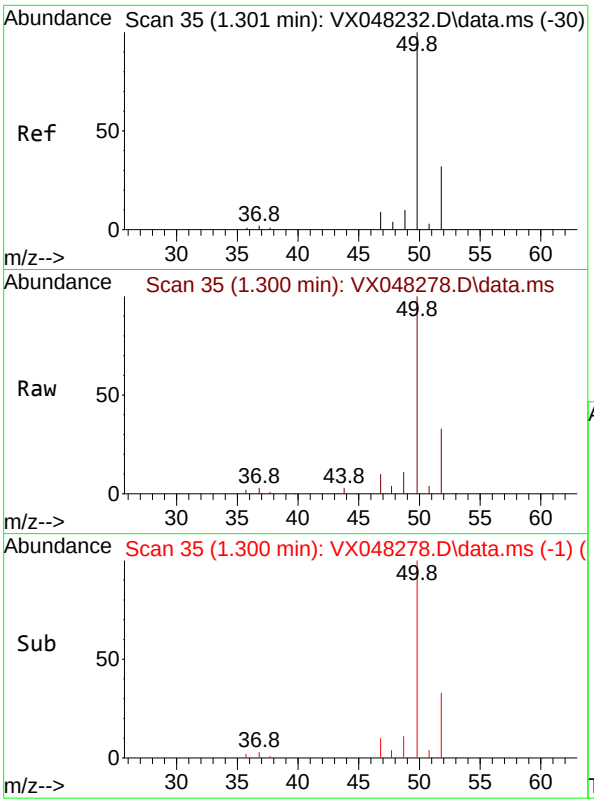


#2
Dichlorodifluoromethane
Concen: 45.636 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 85 Resp: 51728

Ion	Ratio	Lower	Upper
85	100		
87	32.7	15.3	45.9





#3
Chloromethane
Concen: 41.125 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

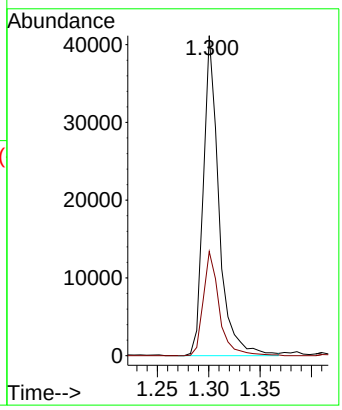
Tgt Ion: 50 Resp: 4351

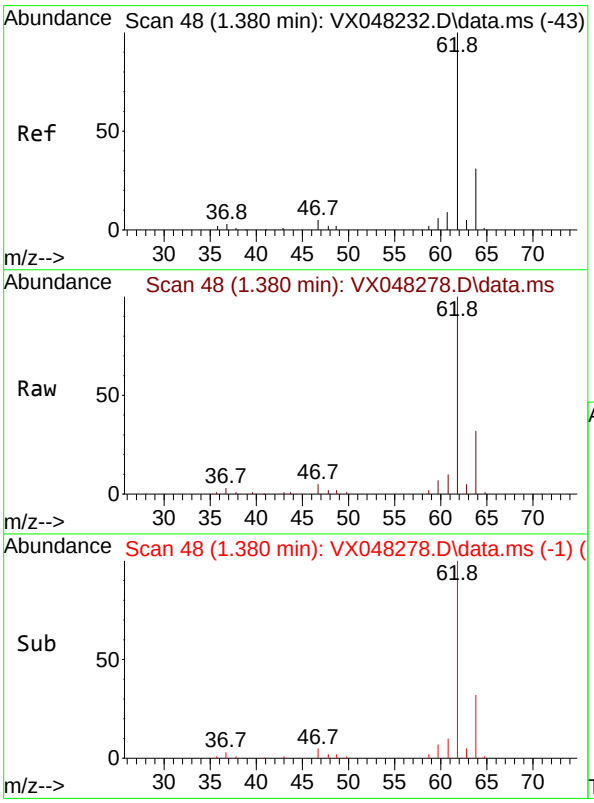
Ion	Ratio	Lower	Upper
50	100		
52	32.5	25.9	38.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

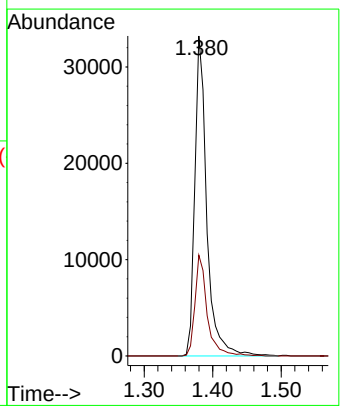


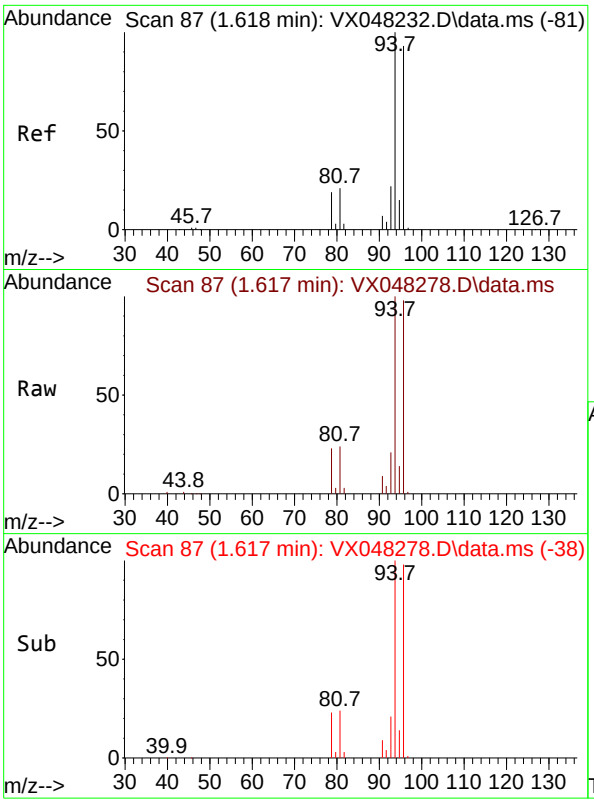


#4
Vinyl Chloride
Concen: 41.217 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 62 Resp: 40381

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.1	37.7

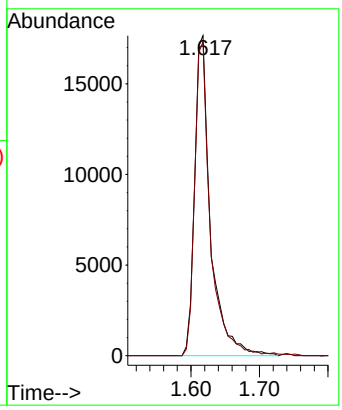




#5
Bromomethane
Concen: 42.818 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 94 Resp: 2846

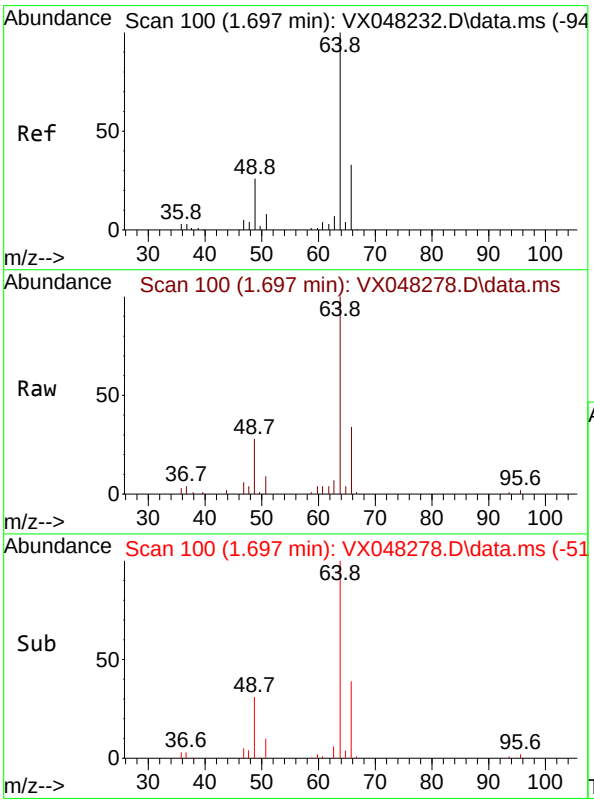
Ion	Ratio	Lower	Upper
94	100		
96	98.1	76.0	114.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

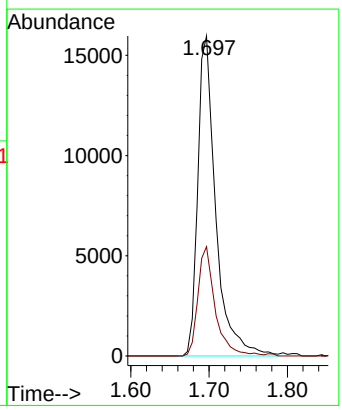
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

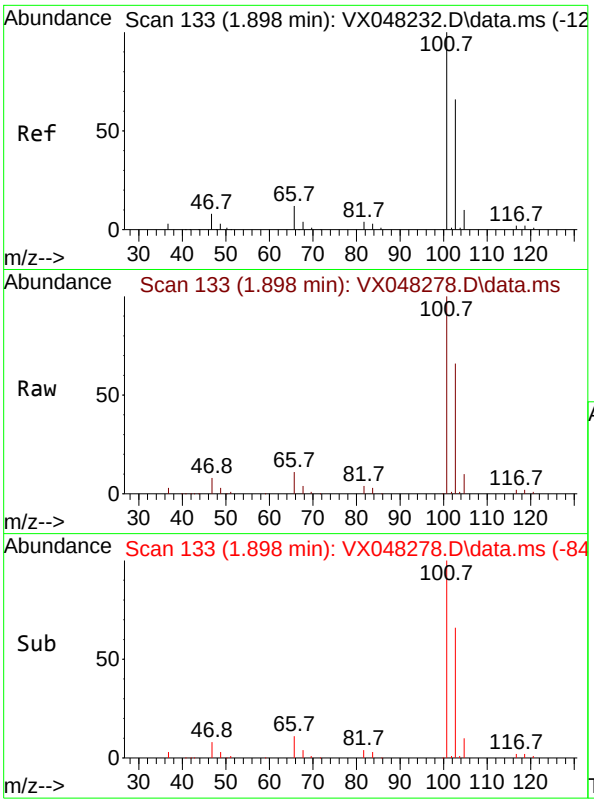


#6
Chloroethane
Concen: 44.175 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 64 Resp: 25432

Ion	Ratio	Lower	Upper
64	100		
66	34.2	23.9	35.9





#7
Trichlorofluoromethane
Concen: 46.992 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

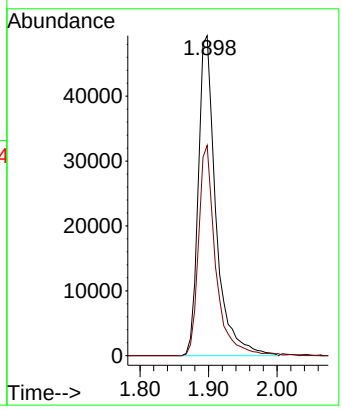
Tgt Ion:101 Resp: 8829

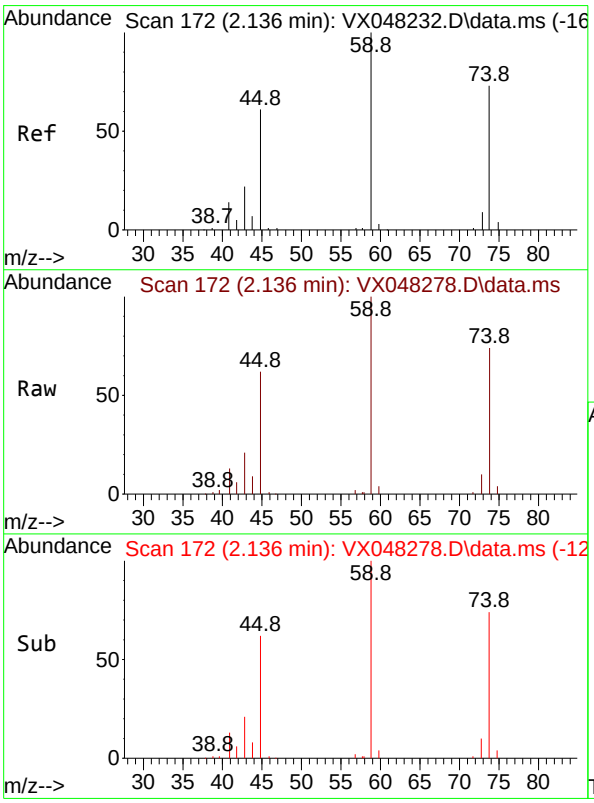
Ion	Ratio	Lower	Upper
101	100		
103	65.7	51.6	77.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

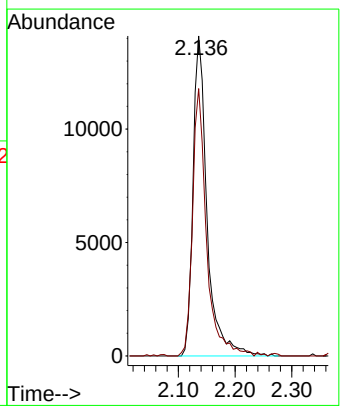


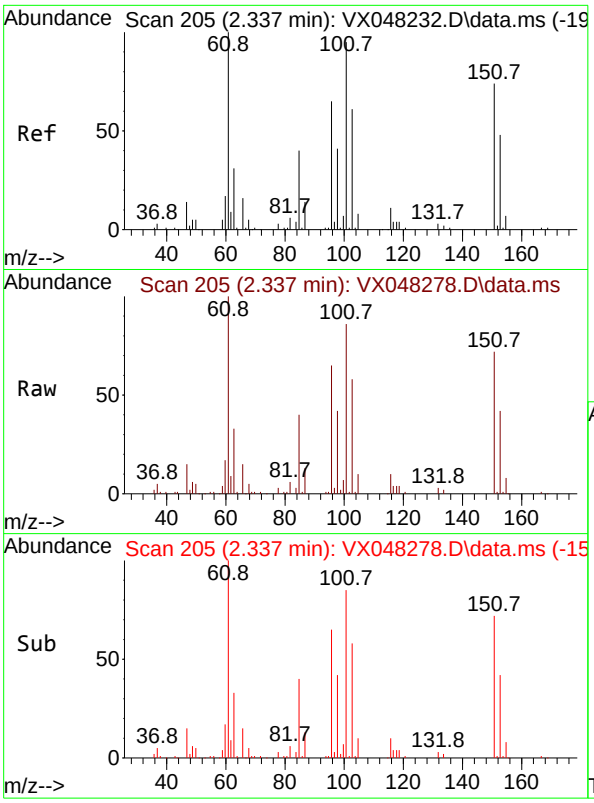


#8
Diethyl Ether
Concen: 45.877 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 74 Resp: 24255

Ion	Ratio	Lower	Upper
74	100		
45	83.2	50.0	149.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 44.374 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

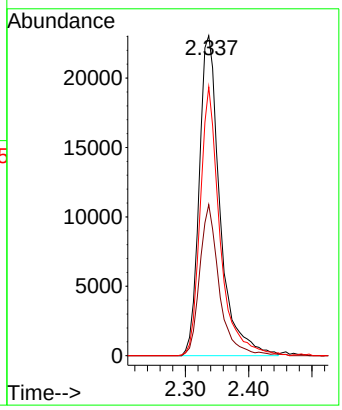
Tgt Ion:101 Resp: 5279

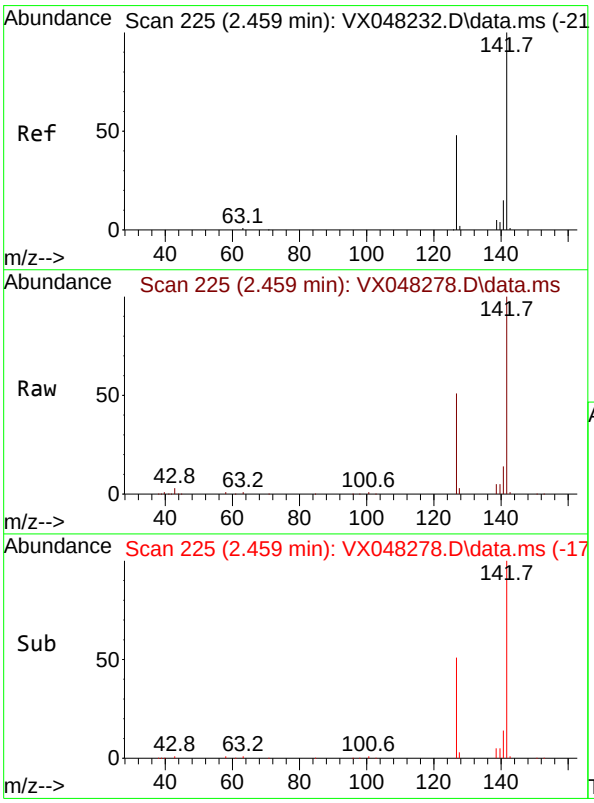
Ion	Ratio	Lower	Upper
101	100		
85	44.5	35.6	53.4
151	79.7	58.0	87.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

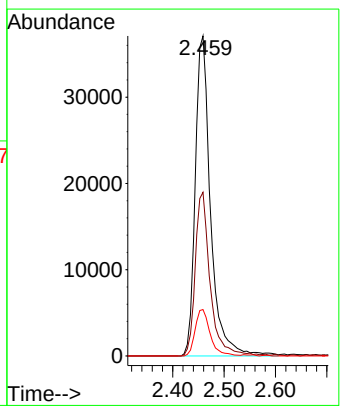


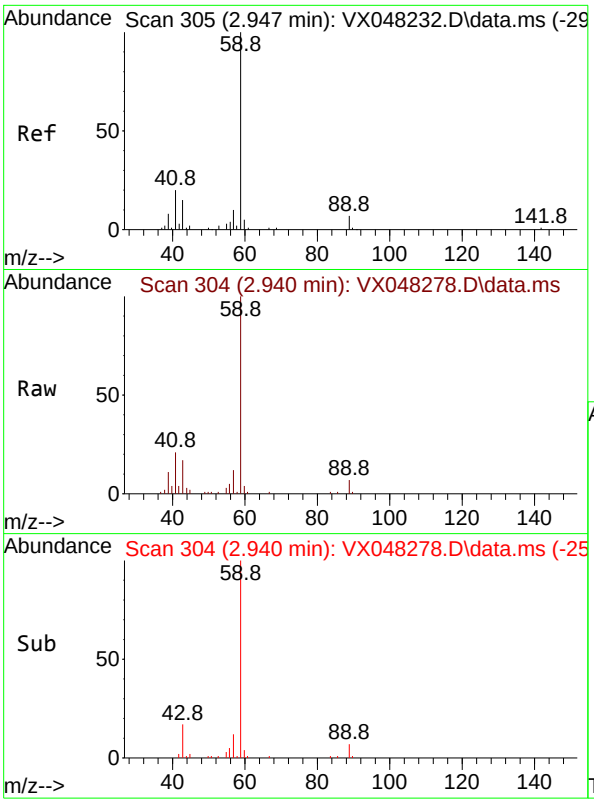


#10
Methyl Iodide
Concen: 51.416 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:142 Resp: 76908

Ion	Ratio	Lower	Upper
142	100		
127	49.9	38.5	57.7
141	14.2	11.6	17.4





#11
Tert butyl alcohol
Concen: 204.253 ug/l
RT: 2.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

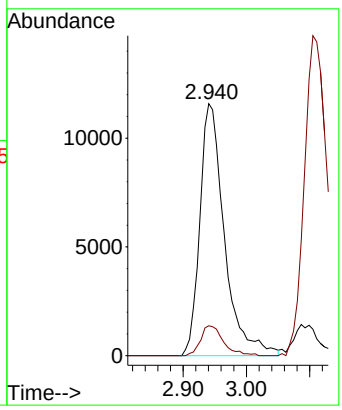
Tgt Ion: 59 Resp: 3135

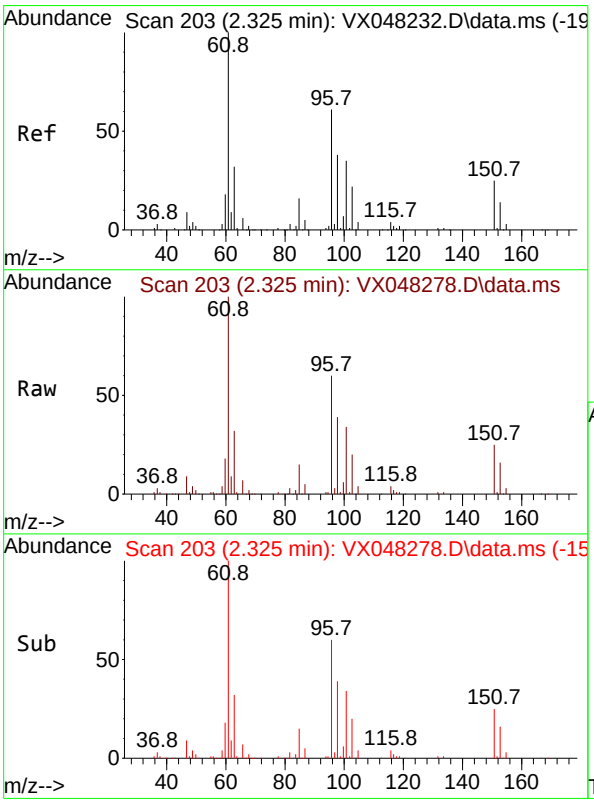
Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.2	12.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

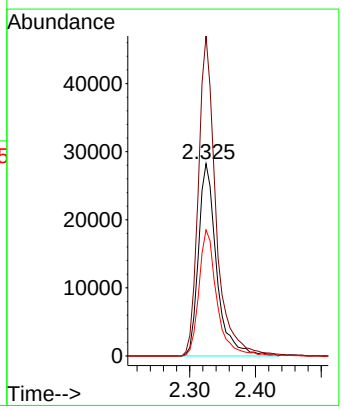


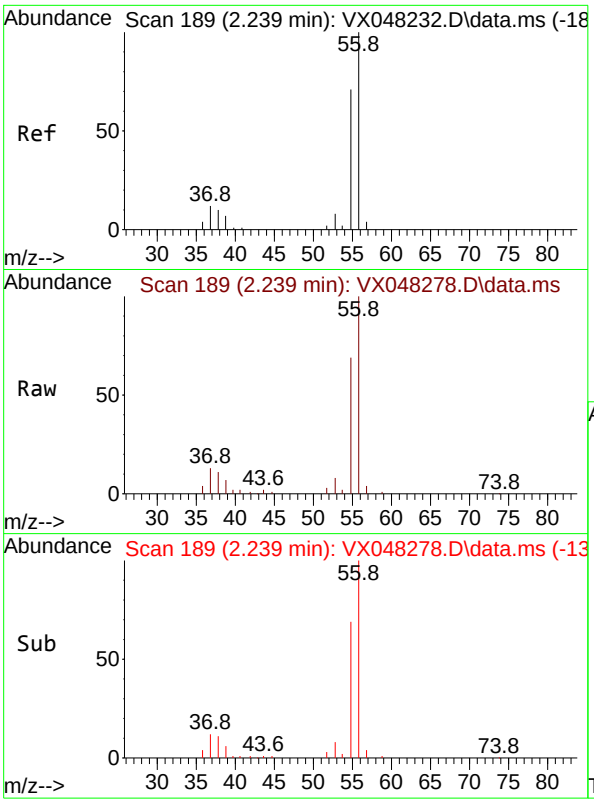


#12
1,1-Dichloroethene
Concen: 46.632 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 96 Resp: 53980

Ion	Ratio	Lower	Upper
96	100		
61	166.4	139.0	208.6
98	65.5	52.4	78.6

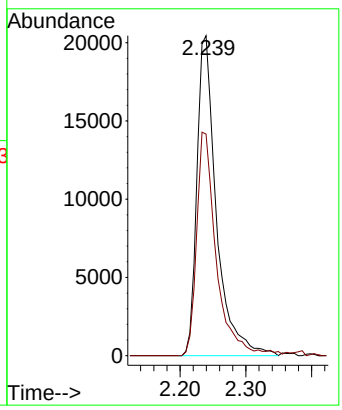




#13
Acrolein
Concen: 269.101 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 56 Resp: 4212

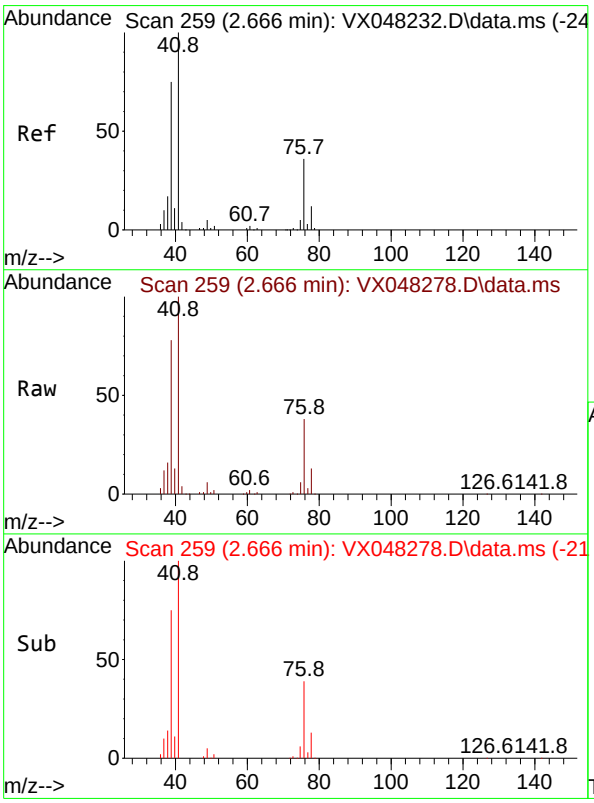
Ion	Ratio	Lower	Upper
56	100		
55	70.5	56.1	84.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

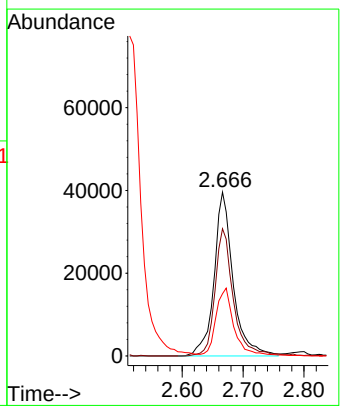
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

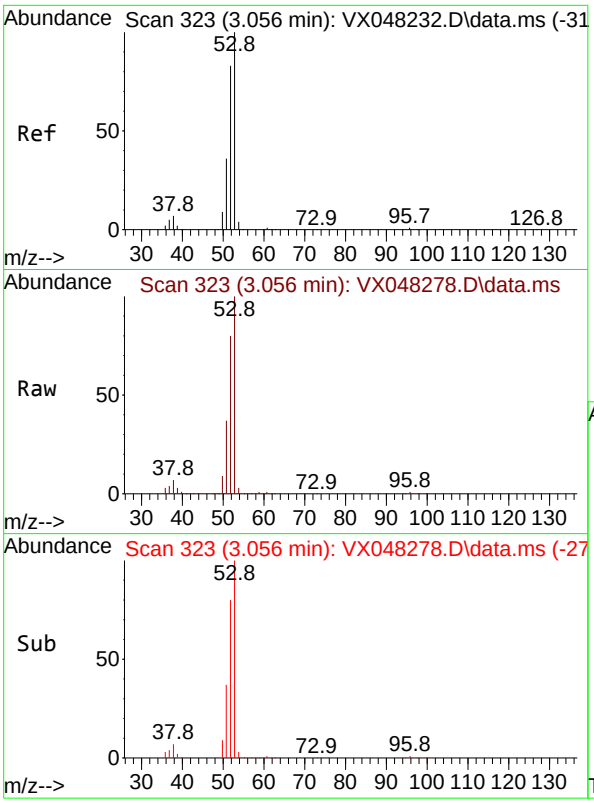


#14
Allyl chloride
Concen: 44.749 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 41 Resp: 86002

Ion	Ratio	Lower	Upper
41	100		
39	74.6	56.0	84.0
76	39.7	27.5	41.3





#15
Acrylonitrile
Concen: 230.910 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

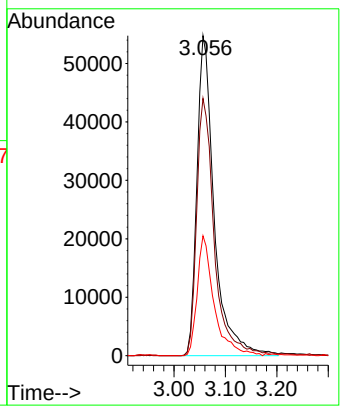
Tgt Ion: 53 Resp: 12780

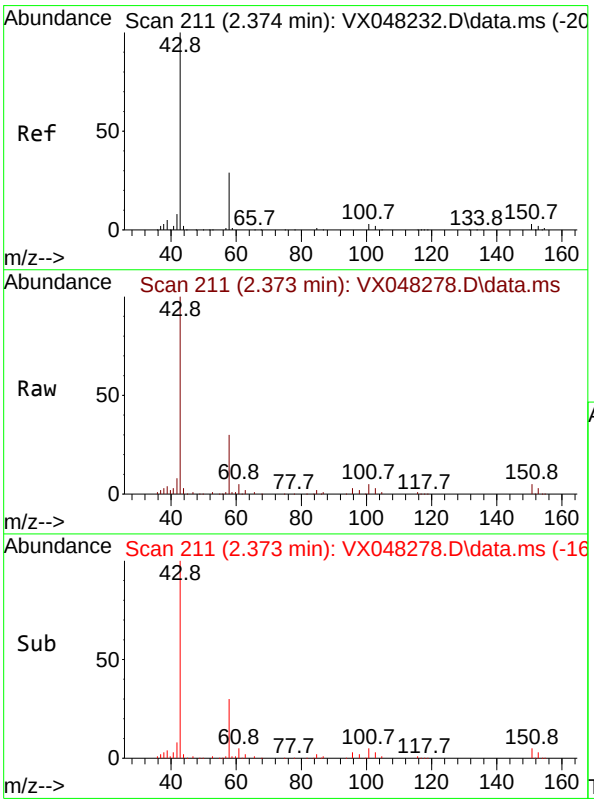
Ion	Ratio	Lower	Upper
53	100		
52	82.5	66.1	99.1
51	36.7	29.0	43.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

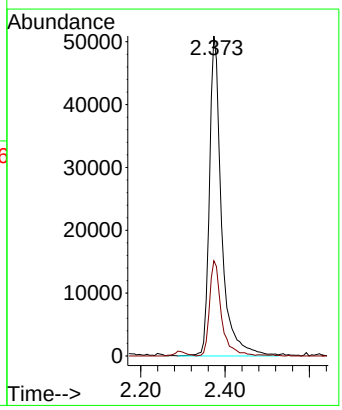


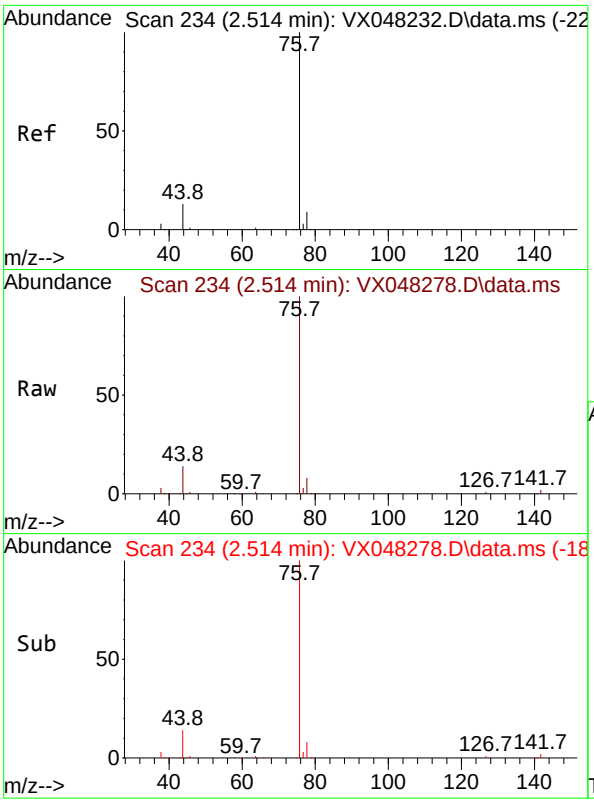


#16
Acetone
Concen: 191.905 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 43 Resp: 101775

Ion	Ratio	Lower	Upper
43	100		
58	31.0	23.4	35.2

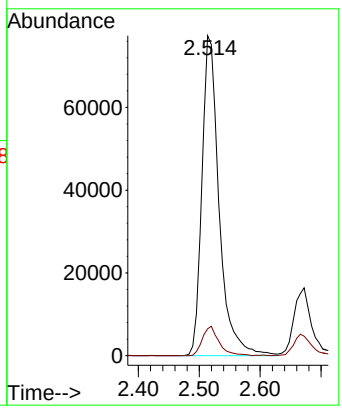




#17
Carbon Disulfide
Concen: 41.561 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 76 Resp: 15162

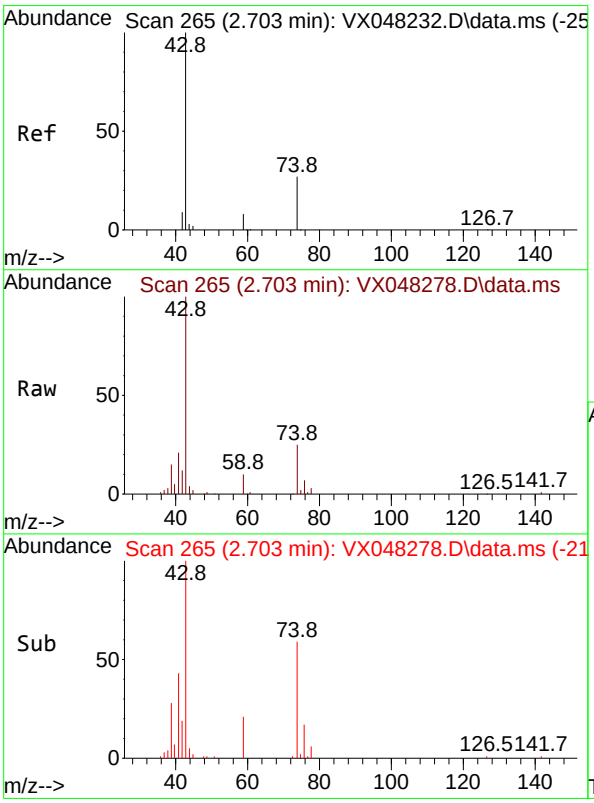
Ion	Ratio	Lower	Upper
76	100		
78	8.4	7.1	10.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

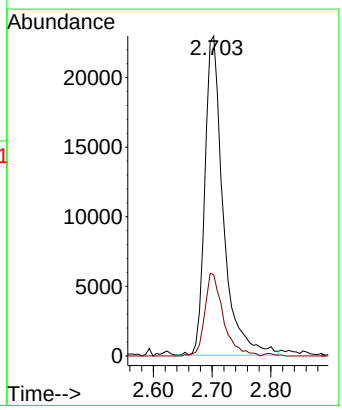
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

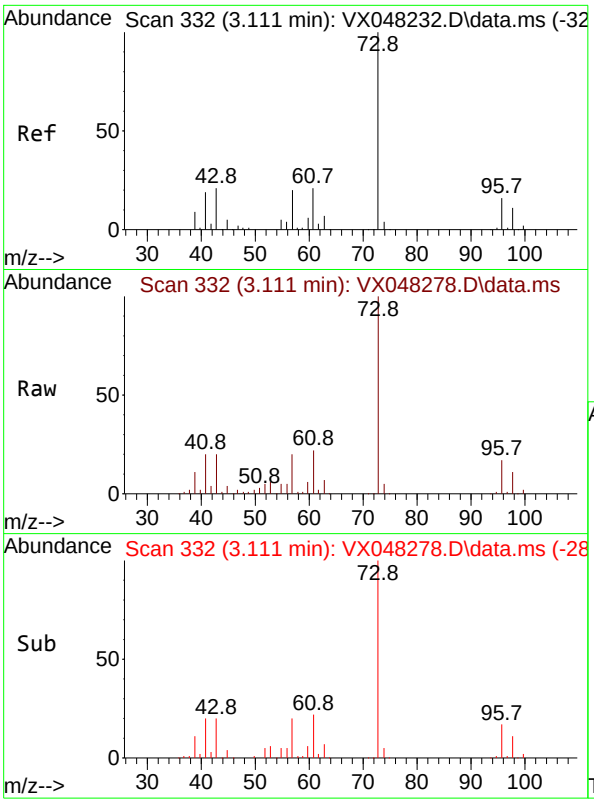


#18
Methyl Acetate
Concen: 44.941 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 43 Resp: 49775

Ion	Ratio	Lower	Upper
43	100		
74	26.1	17.5	26.3





#19
Methyl tert-butyl Ether
Concen: 48.837 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

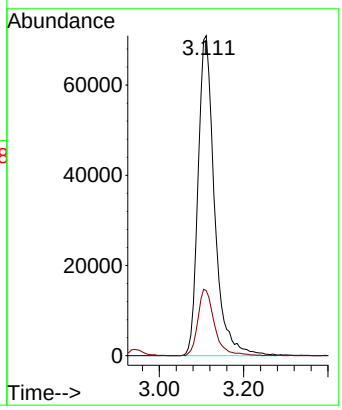
Tgt Ion: 73 Resp: 19286

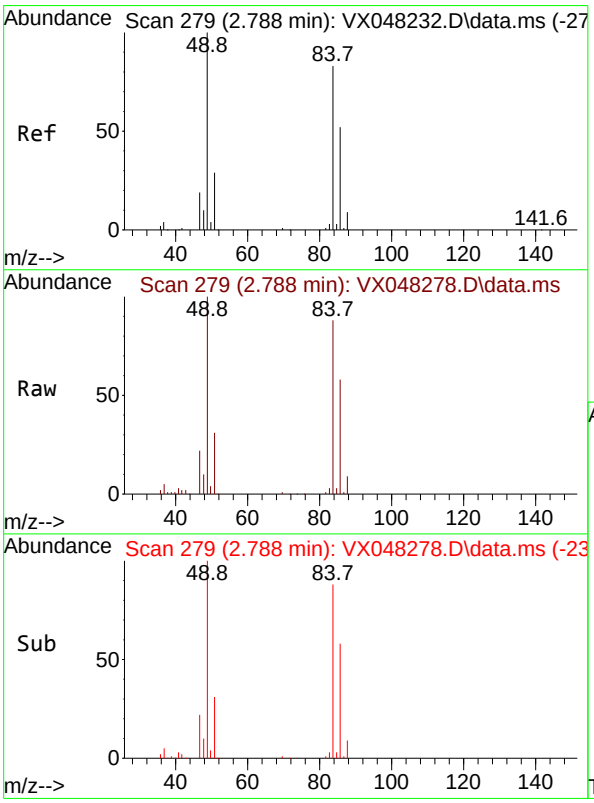
Ion	Ratio	Lower	Upper
73	100		
57	20.3	17.7	26.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

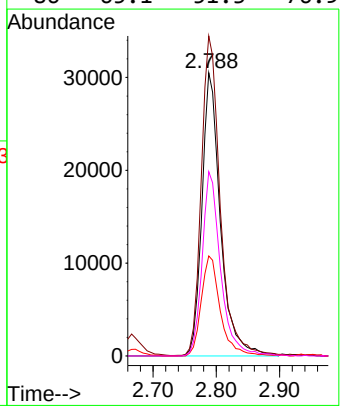


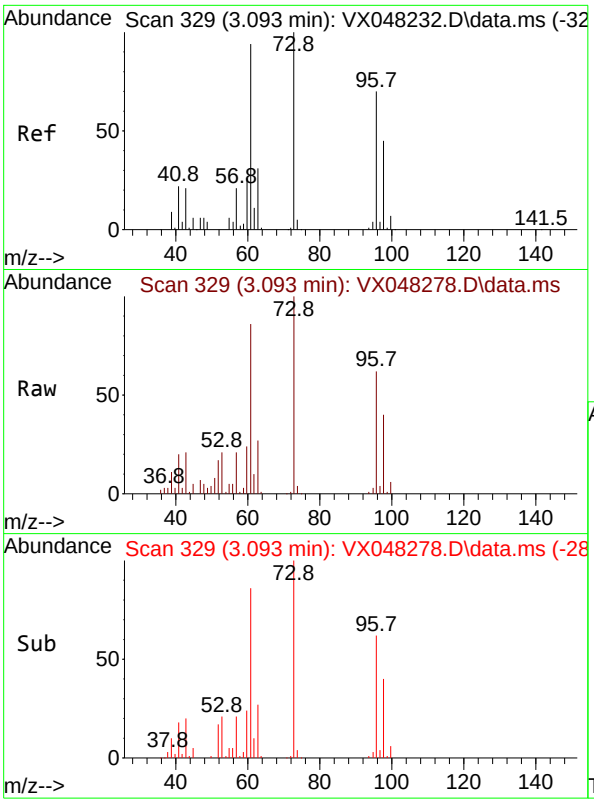


#20
Methylene Chloride
Concen: 48.124 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 84 Resp: 62187

Ion	Ratio	Lower	Upper
84	100		
49	112.8	104.1	156.1
51	35.3	31.3	46.9
86	65.1	51.3	76.9





#21
trans-1,2-Dichloroethene
Concen: 46.571 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

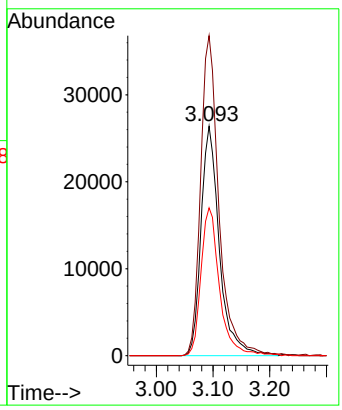
Tgt Ion: 96 Resp: 5921

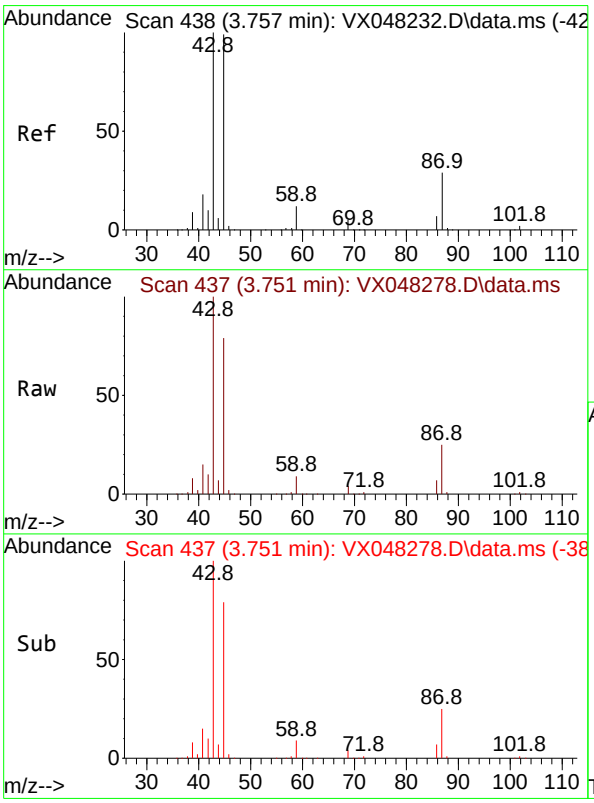
Ion	Ratio	Lower	Upper
96	100		
61	139.4	111.9	167.9
98	64.4	51.2	76.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

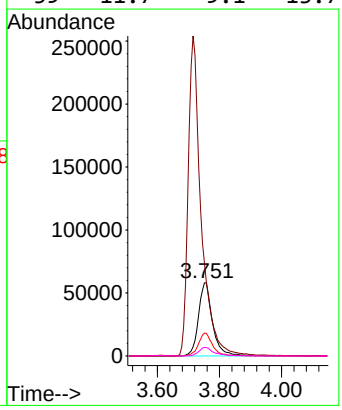


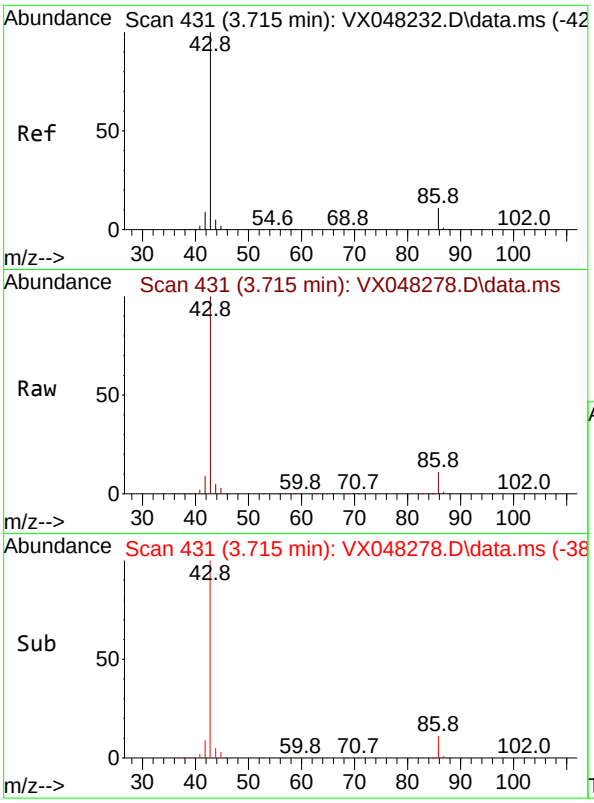


#22
Diisopropyl ether
Concen: 47.827 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 45 Resp: 183332

Ion	Ratio	Lower	Upper
45	100		
43	126.5	89.8	134.8
87	31.3	20.6	31.0#
59	11.7	9.1	13.7





#23
Vinyl Acetate
Concen: 242.501 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

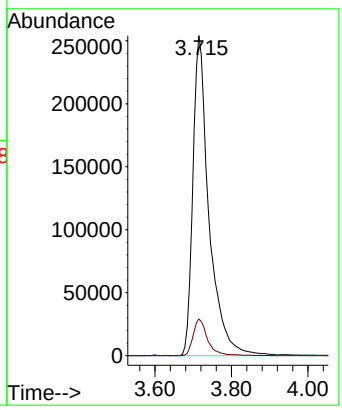
Tgt Ion: 43 Resp: 74254

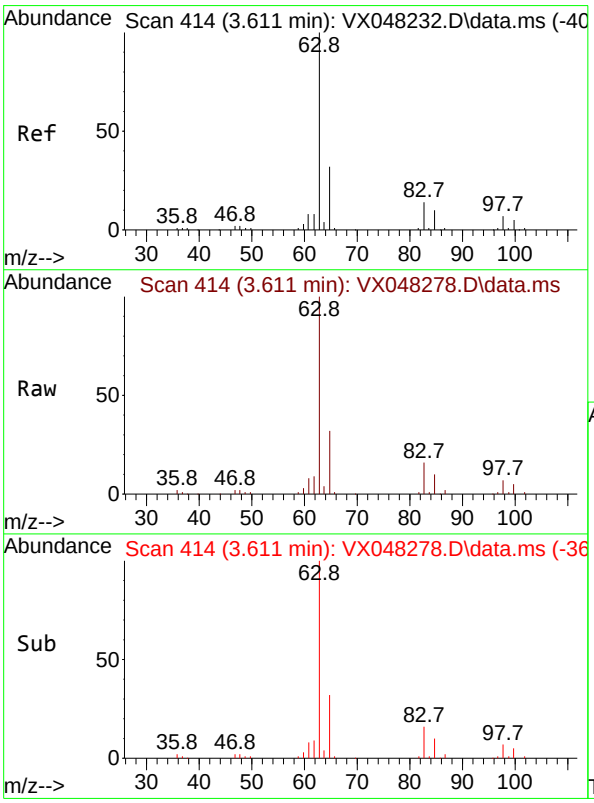
Ion	Ratio	Lower	Upper
43	100		
86	11.5	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

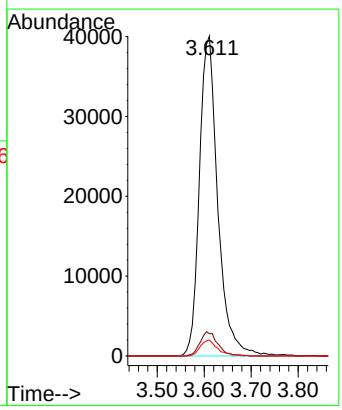


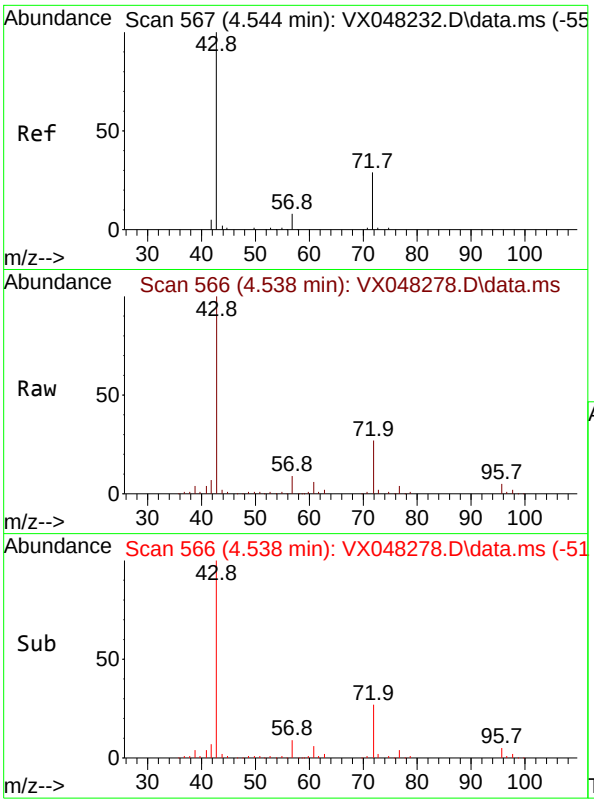


#24
1,1-Dichloroethane
Concen: 46.973 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 63 Resp: 108877

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.6
100	5.0	2.1	6.3





#25
2-Butanone
Concen: 215.374 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

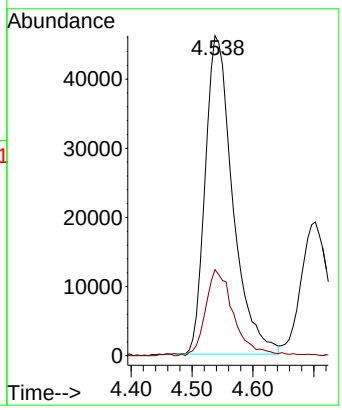
Tgt Ion: 43 Resp: 14457

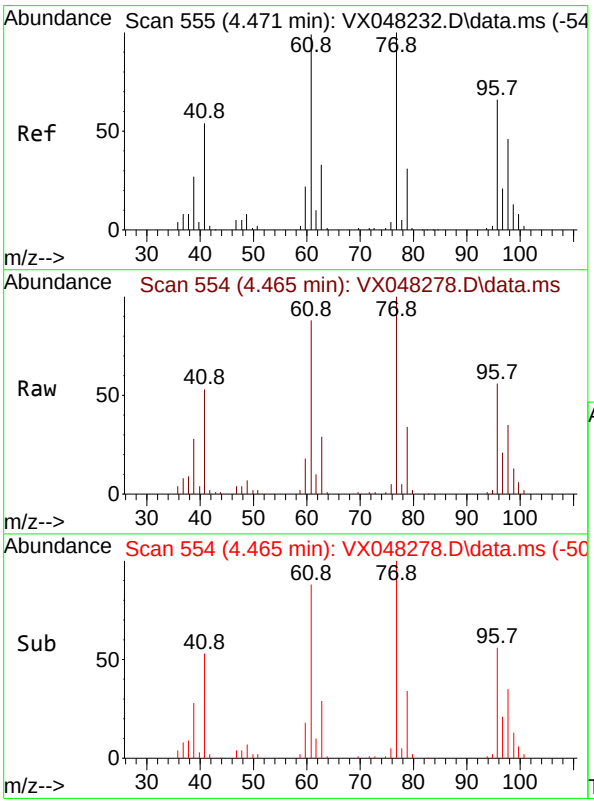
Ion	Ratio	Lower	Upper
43	100		
72	27.0	19.9	29.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

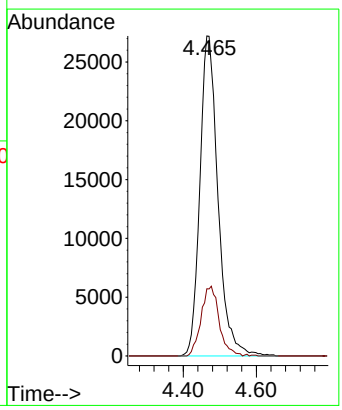


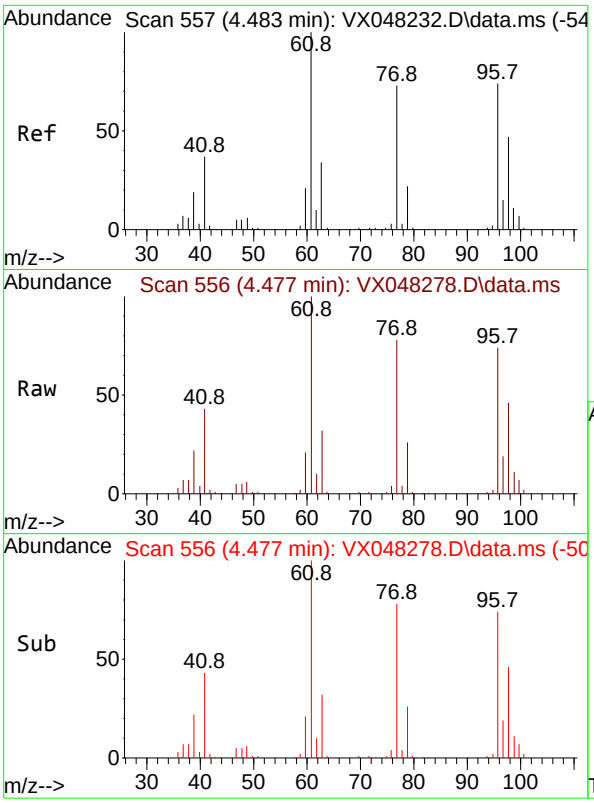


#26
2,2-Dichloropropane
Concen: 44.766 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 77 Resp: 93655

Ion	Ratio	Lower	Upper
77	100		
97	21.6	11.1	33.3





#27
cis-1,2-Dichloroethene
Concen: 48.458 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

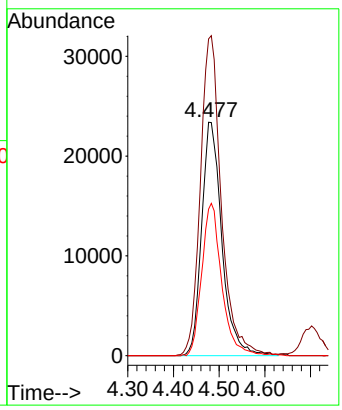
Tgt Ion: 96 Resp: 7191

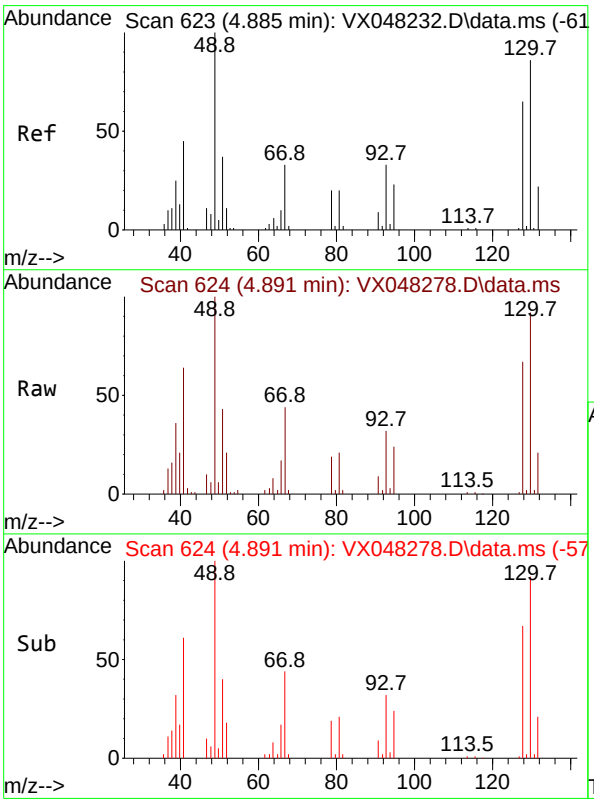
Ion	Ratio	Lower	Upper
96	100		
61	141.9	0.0	294.2
98	64.3	0.0	128.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

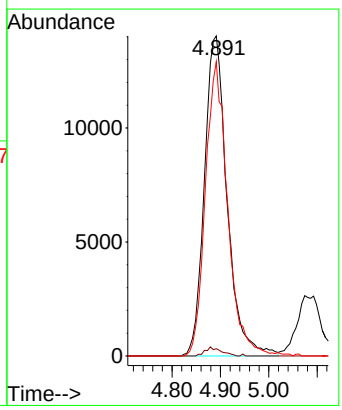


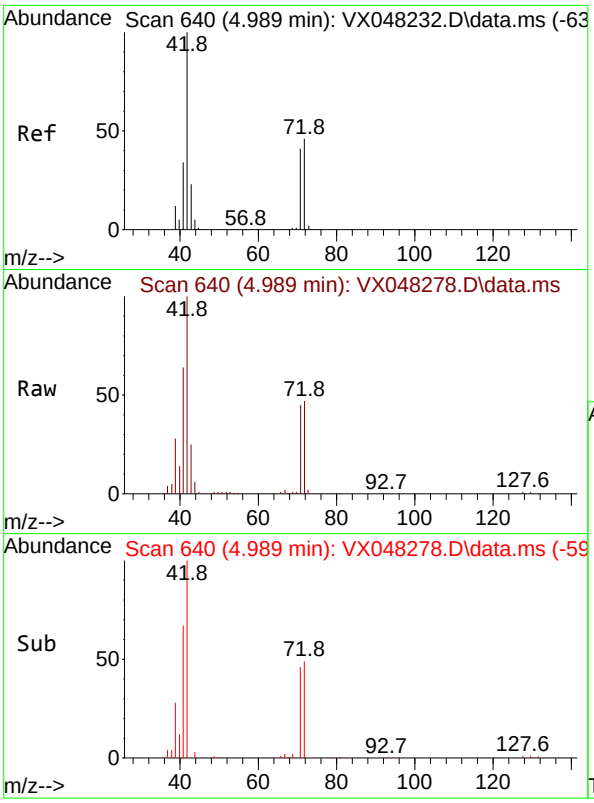


#28
Bromochloromethane
Concen: 47.680 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 49 Resp: 45824

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.4
130	90.3	59.3	88.9#





#29
Tetrahydrofuran
Concen: 218.490 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

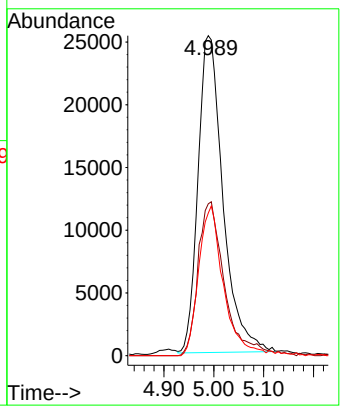
Tgt Ion: 42 Resp: 8783

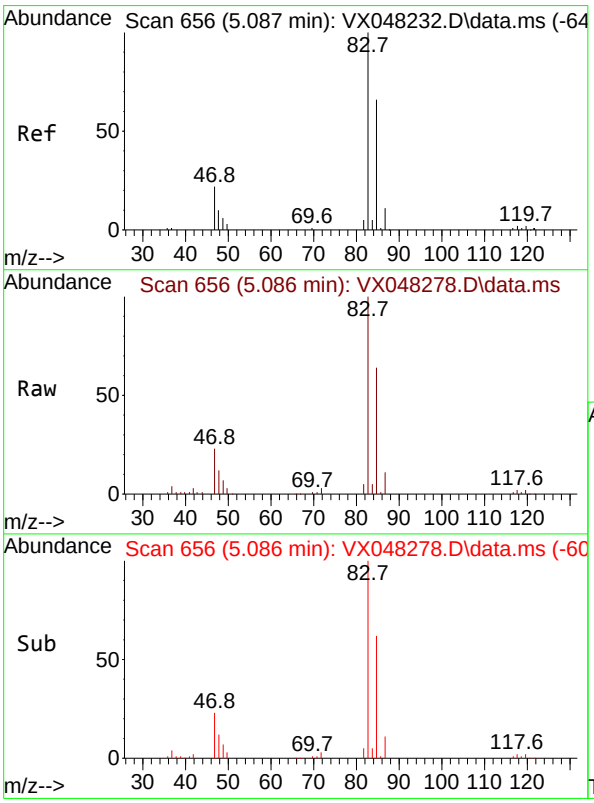
Ion	Ratio	Lower	Upper
42	100		
72	51.8	35.3	52.9
71	46.7	32.2	48.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

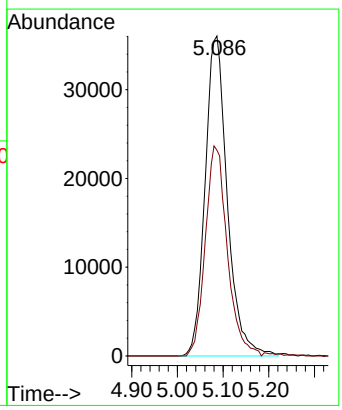


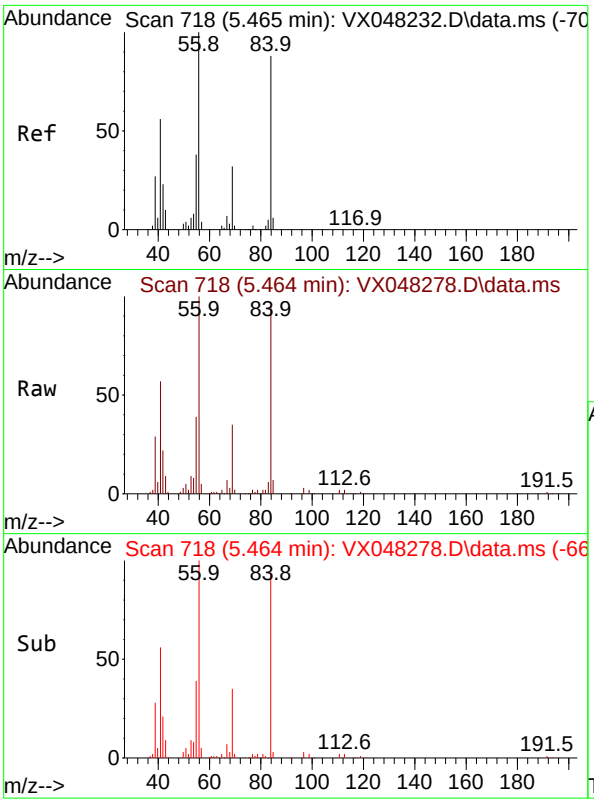


#30
Chloroform
Concen: 49.137 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 83 Resp: 121680

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.1	75.1

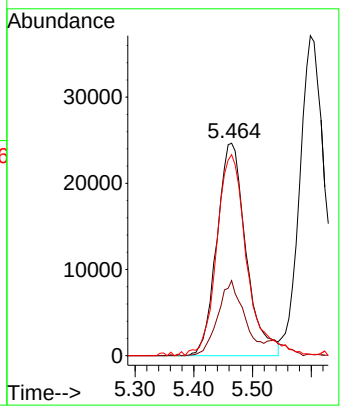




#31
Cyclohexane
Concen: 44.238 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 56 Resp: 8489

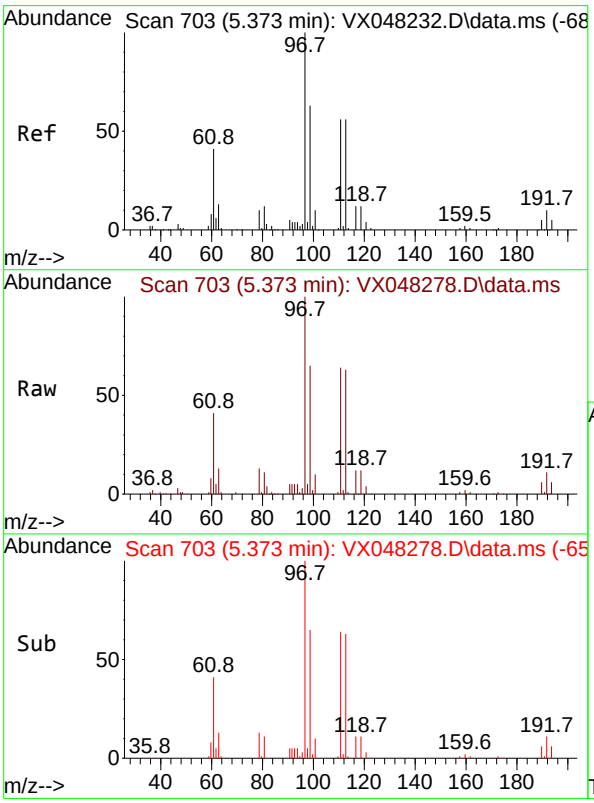
Ion	Ratio	Lower	Upper
56	100		
69	34.7	23.0	34.6
84	94.2	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

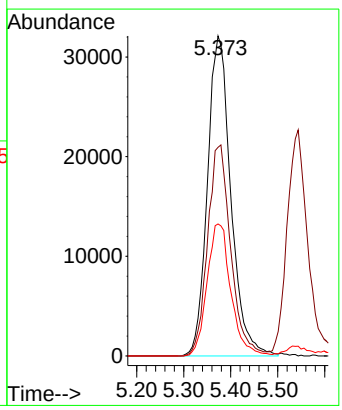
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

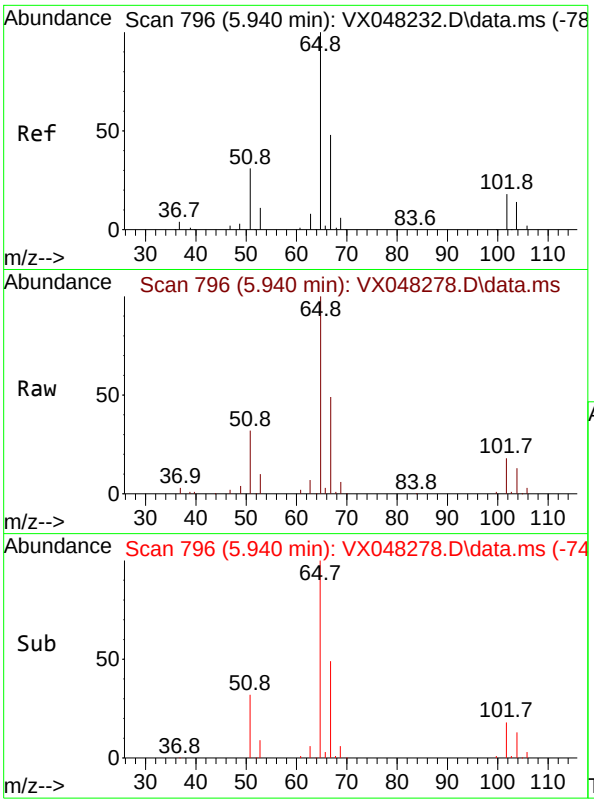


#32
1,1,1-Trichloroethane
Concen: 48.747 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 97 Resp: 111254

Ion	Ratio	Lower	Upper
97	100		
99	65.4	51.7	77.5
61	41.9	34.8	52.2





#33
1,2-Dichloroethane-d4
Concen: 56.153 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

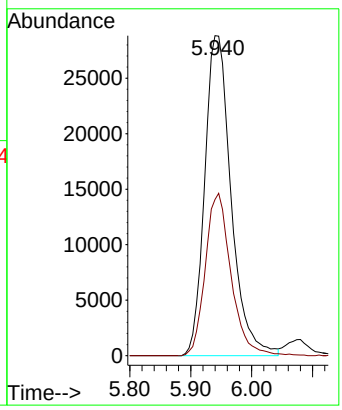
Tgt Ion: 65 Resp: 8680

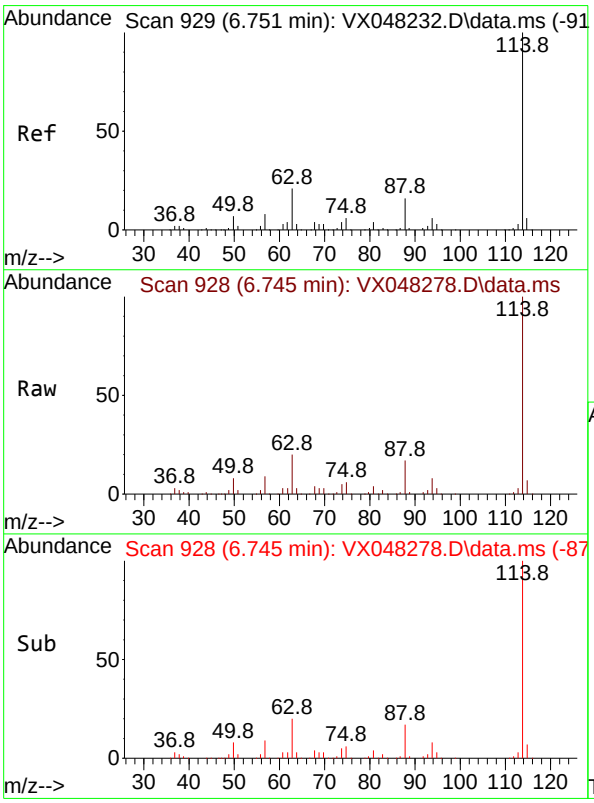
Ion	Ratio	Lower	Upper
65	100		
67	49.6	0.0	105.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

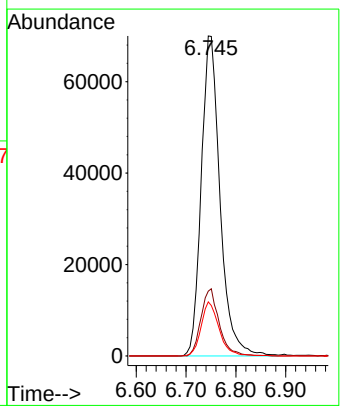


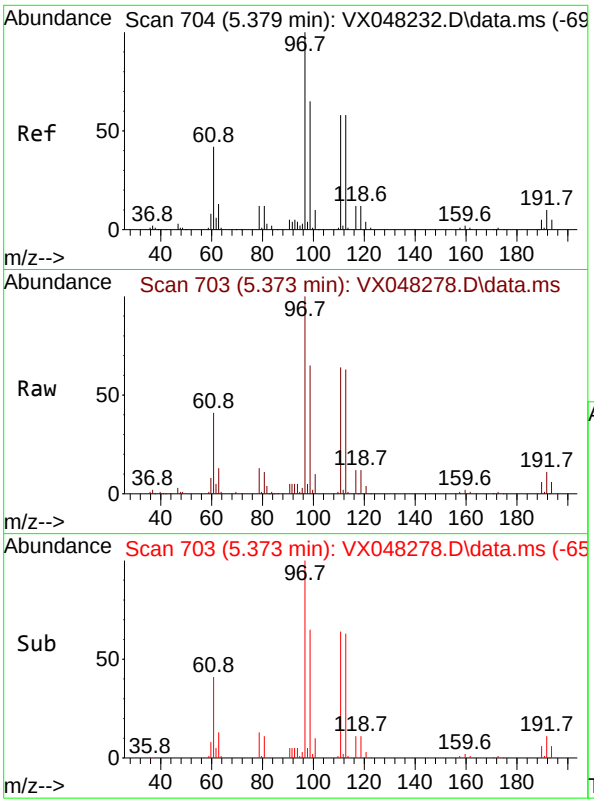


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:114 Resp: 183155

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	43.2
88	16.9	0.0	33.6

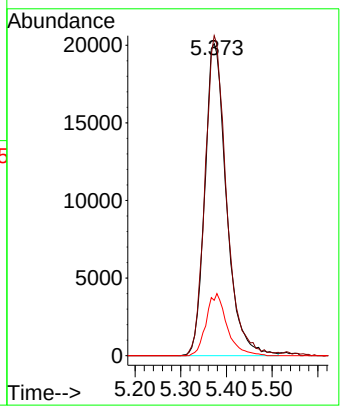




#35
Dibromofluoromethane
Concen: 52.800 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:113 Resp: 6602

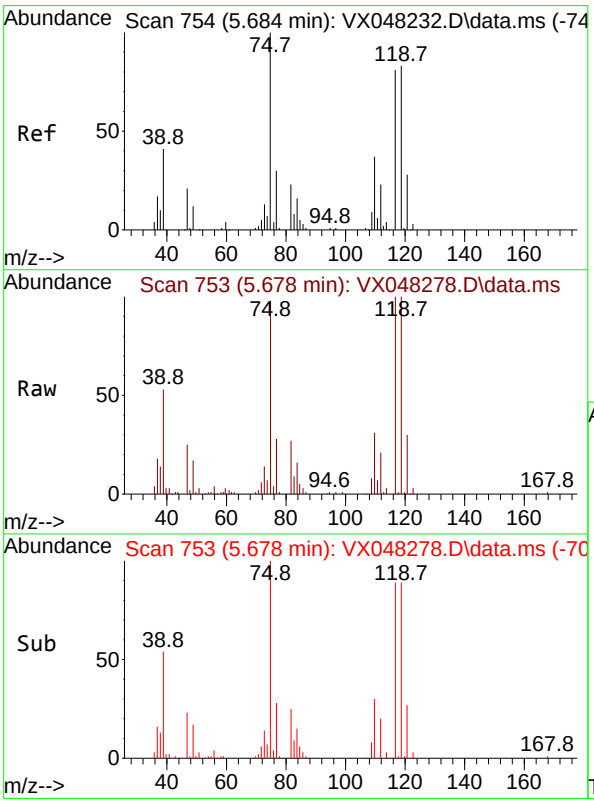
Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.2	123.4
192	19.3	15.1	22.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

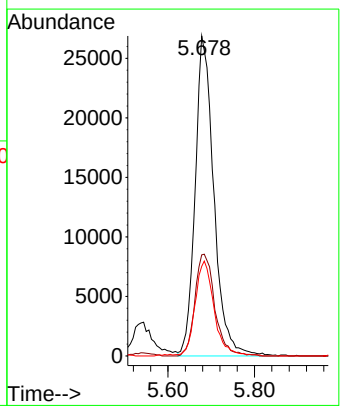
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

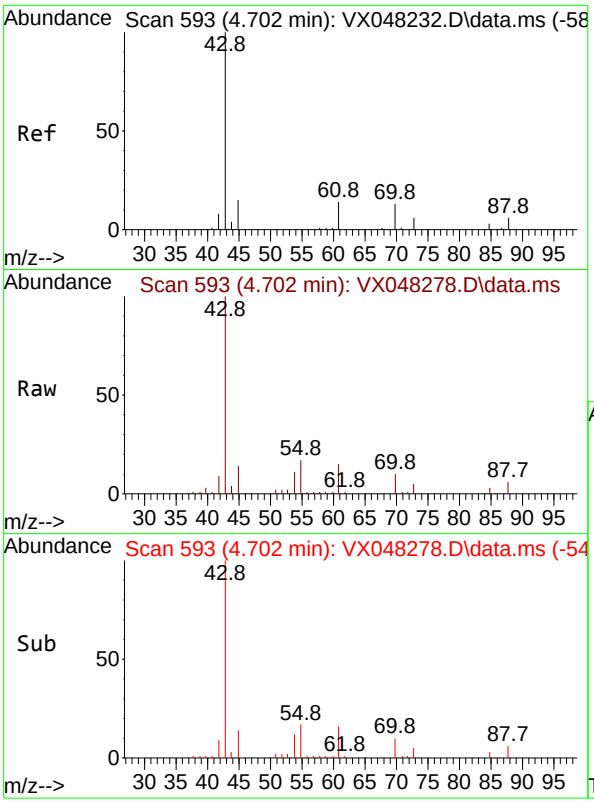


#36
1,1-Dichloropropene
Concen: 45.371 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 75 Resp: 80634

Ion	Ratio	Lower	Upper
75	100		
110	33.9	17.7	53.1
77	30.2	24.3	36.5

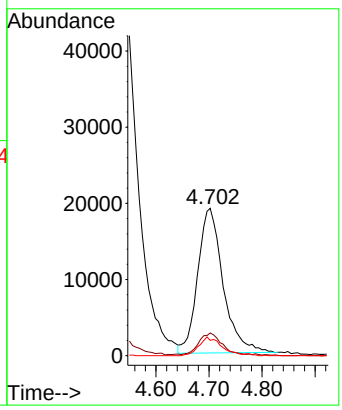




#37
Ethyl Acetate
Concen: 42.851 ug/l
RT: 4.702 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 43 Resp: 6312

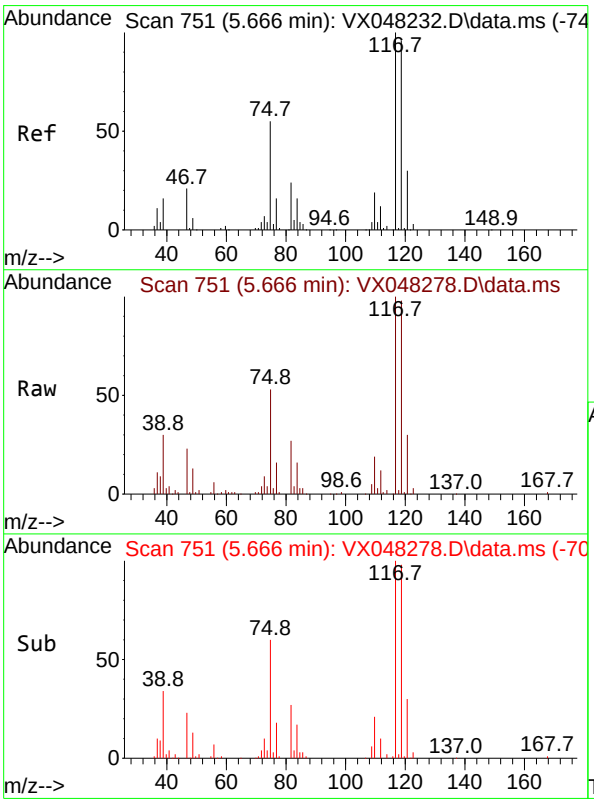
Ion	Ratio	Lower	Upper
43	100		
61	14.1	10.6	15.8
70	11.2	7.8	11.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

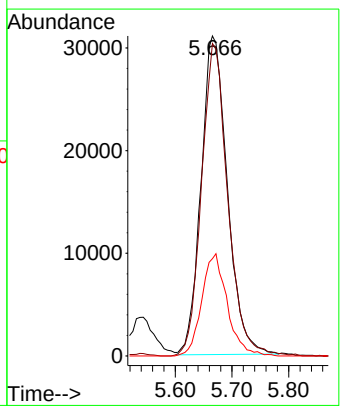
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

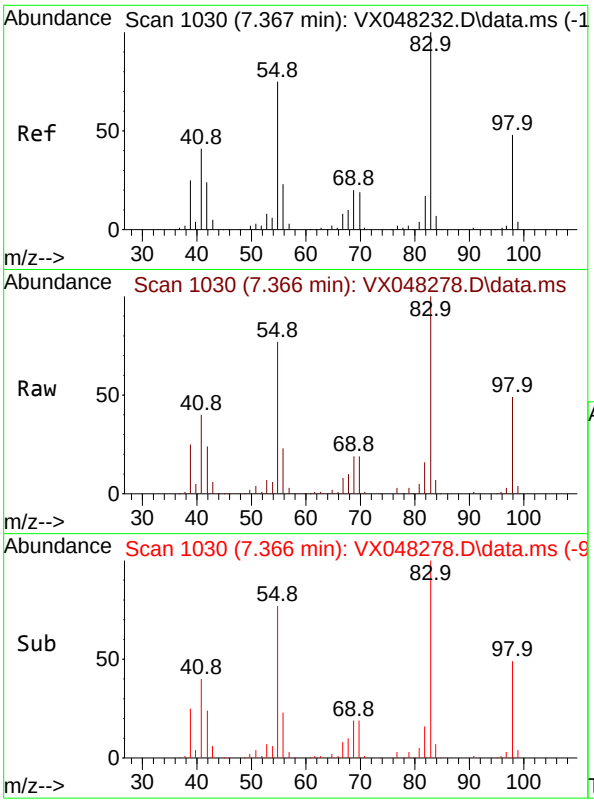


#38
Carbon Tetrachloride
Concen: 45.671 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:117 Resp: 100140

Ion	Ratio	Lower	Upper
117	100		
119	97.6	77.2	115.8
121	30.6	24.8	37.2

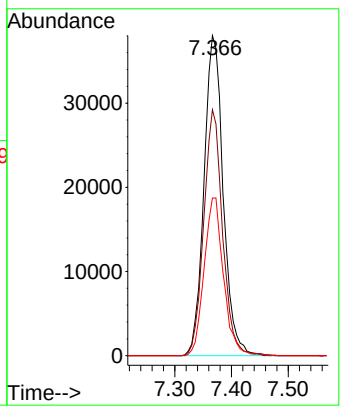




#39
Methylcyclohexane
Concen: 42.670 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 83 Resp: 8956

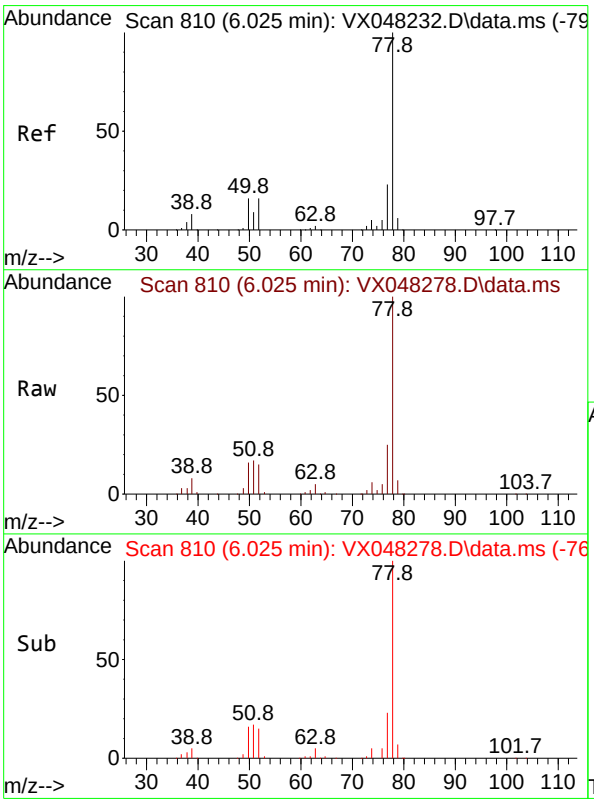
Ion	Ratio	Lower	Upper
83	100		
55	76.8	66.2	99.2
98	49.2	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

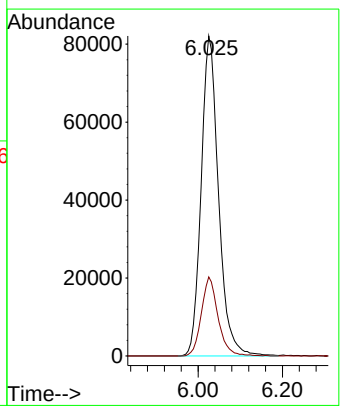
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

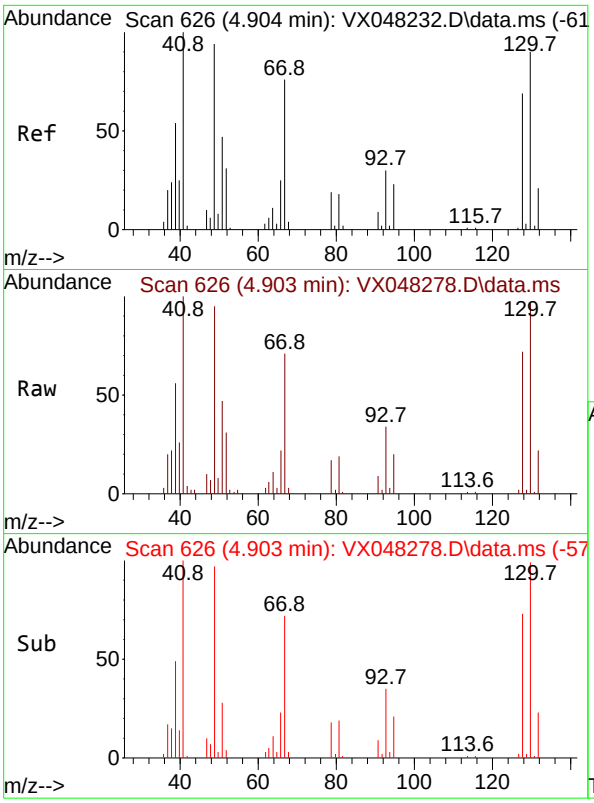


#40
Benzene
Concen: 45.621 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 78 Resp: 235395

Ion	Ratio	Lower	Upper
78	100		
77	24.7	19.3	28.9

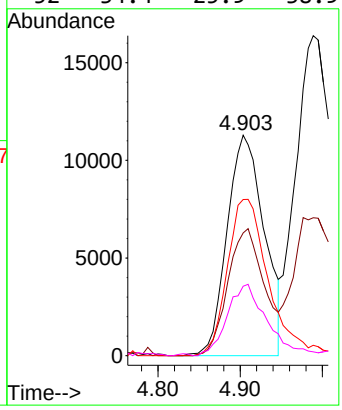




#41
Methacrylonitrile
Concen: 45.945 ug/l
RT: 4.903 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 41 Resp: 3554

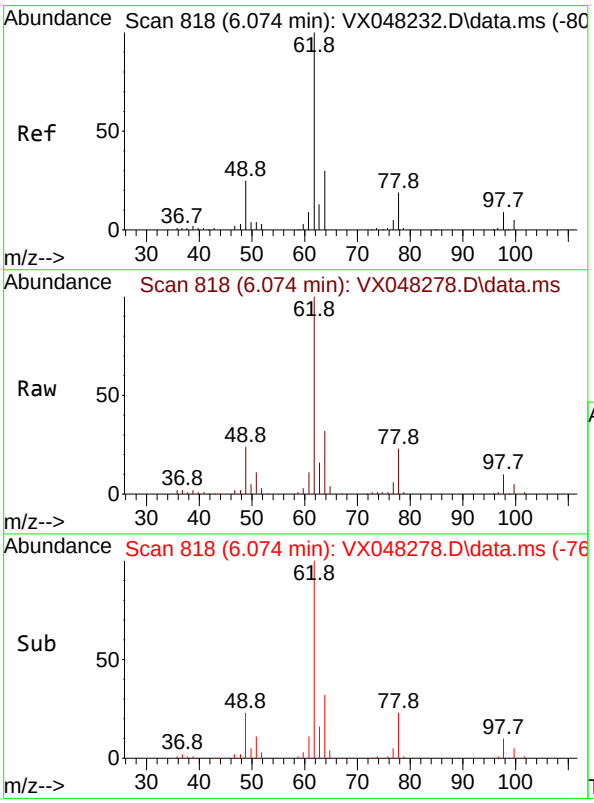
Ion	Ratio	Lower	Upper
41	100		
39	56.4	44.0	66.0
67	78.6	58.7	88.1
52	34.4	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

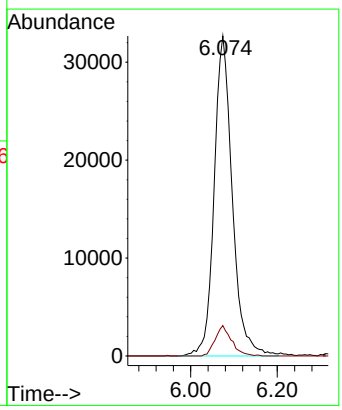
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

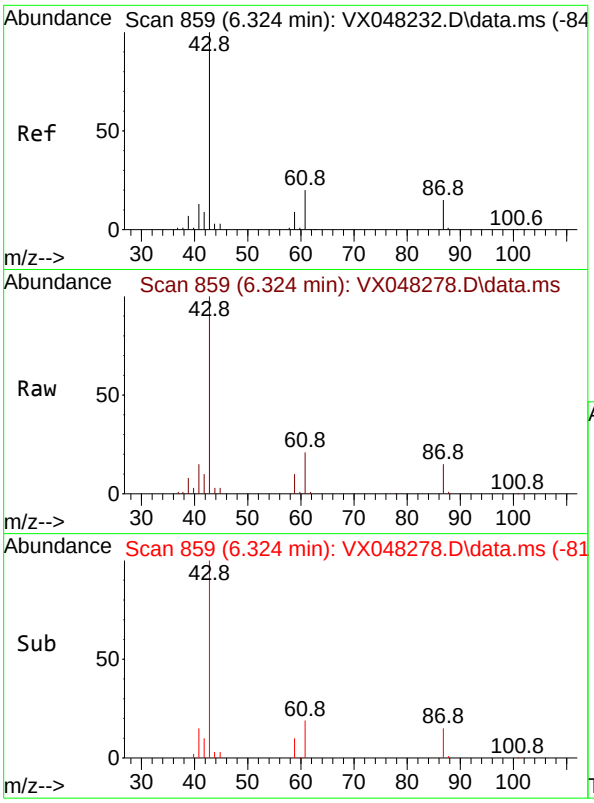


#42
1,2-Dichloroethane
Concen: 49.906 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 62 Resp: 95021

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	17.2





#43
Isopropyl Acetate
Concen: 45.374 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

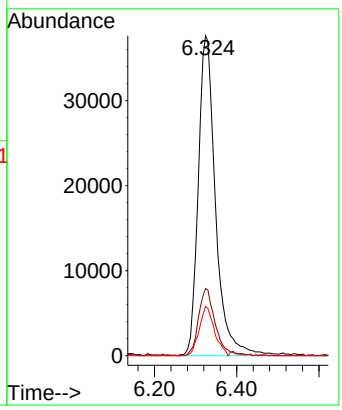
Tgt Ion: 43 Resp: 10979

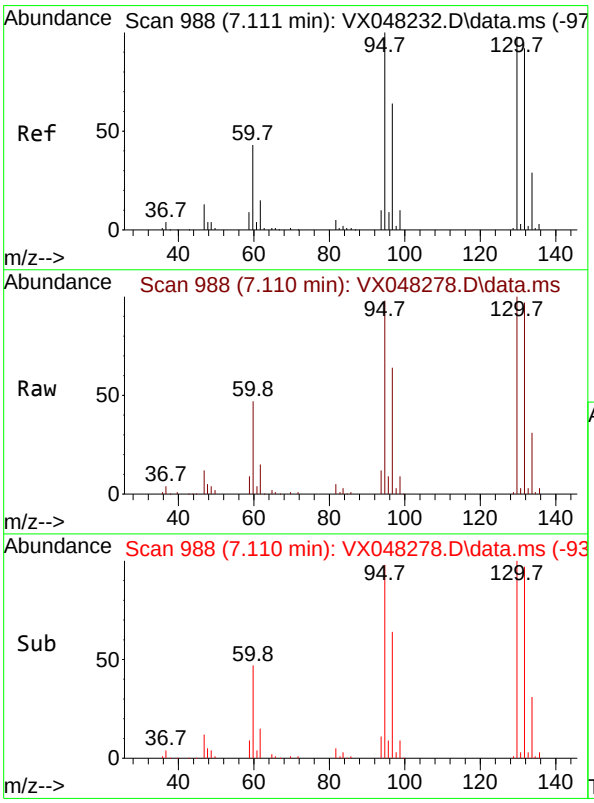
Ion	Ratio	Lower	Upper
43	100		
61	20.3	14.9	22.3
87	13.4	9.4	14.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

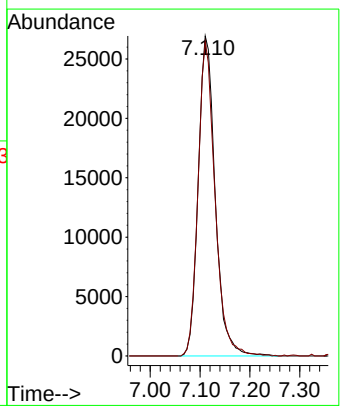


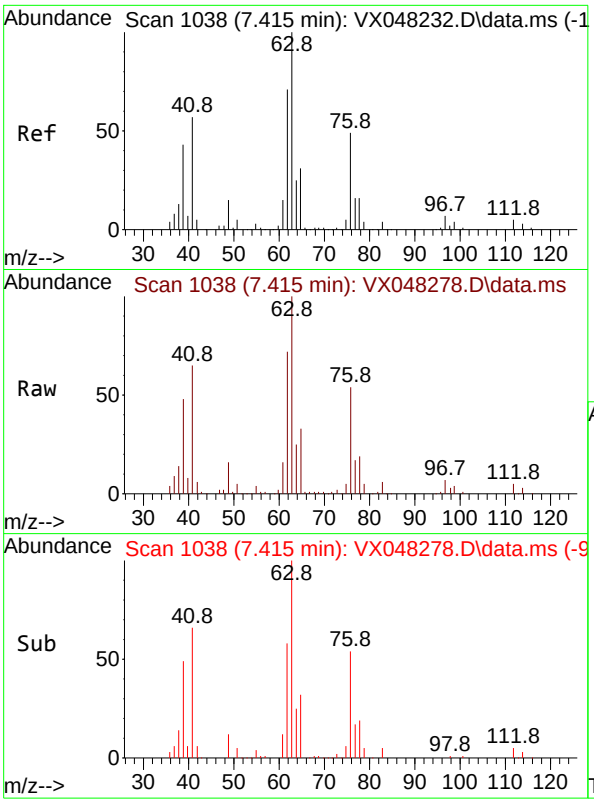


#44
Trichloroethene
Concen: 46.735 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:130 Resp: 63675

Ion	Ratio	Lower	Upper
130	100		
95	107.0	0.0	200.6





#45
1,2-Dichloropropane
Concen: 46.474 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

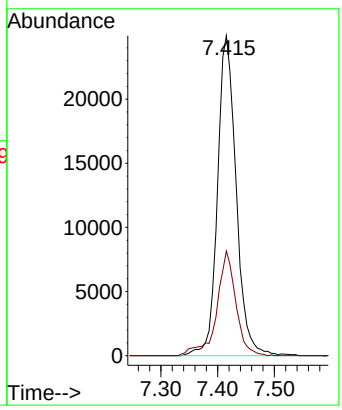
Tgt Ion: 63 Resp: 5701

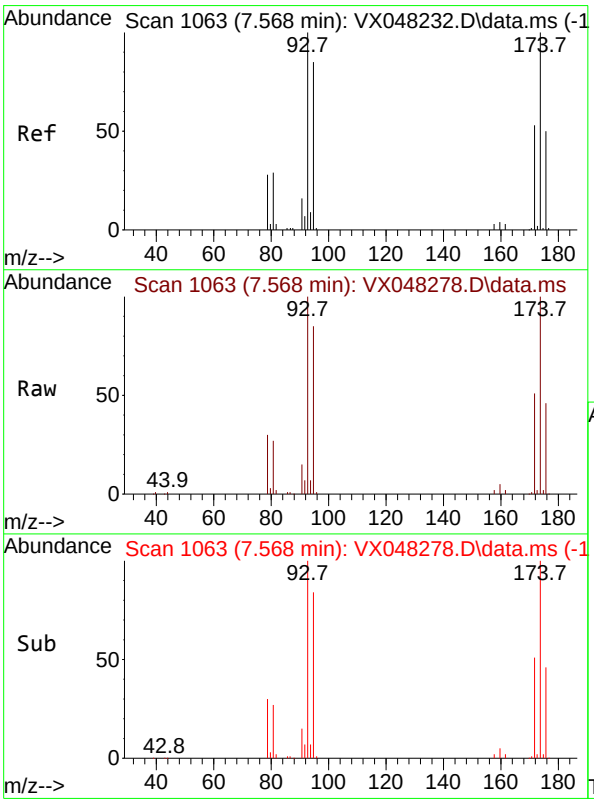
Ion	Ratio	Lower	Upper
63	100		
65	32.7	24.1	36.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

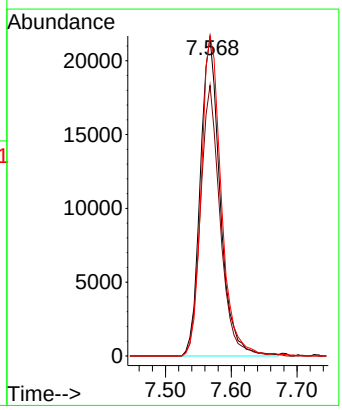


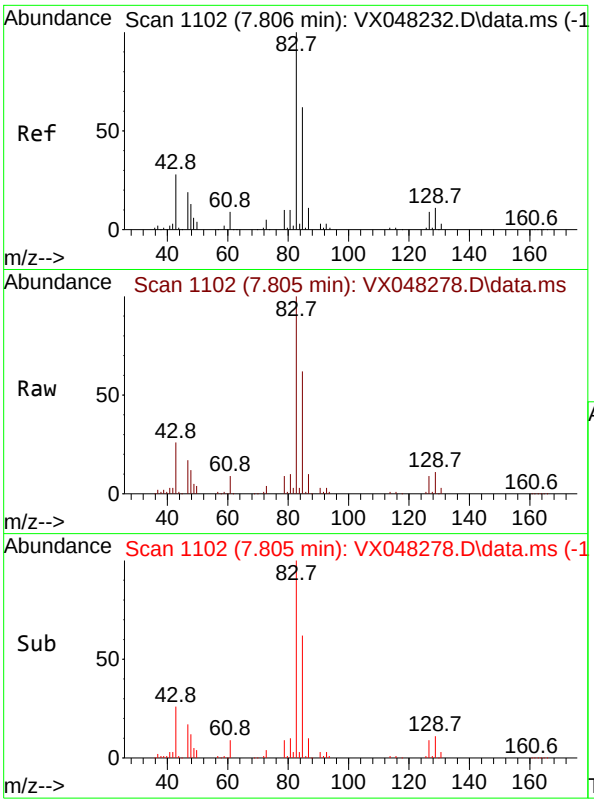


#46
Dibromomethane
Concen: 47.155 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 93 Resp: 45069

Ion	Ratio	Lower	Upper
93	100		
95	84.5	65.9	98.9
174	101.0	71.7	107.5





#47
Bromodichloromethane
Concen: 48.404 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

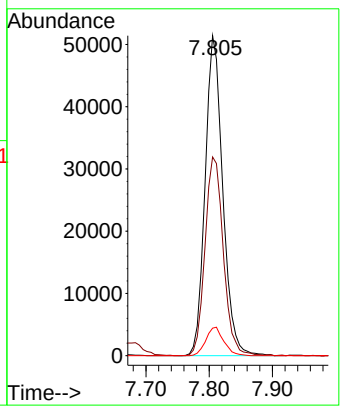
Tgt Ion: 83 Resp: 9988

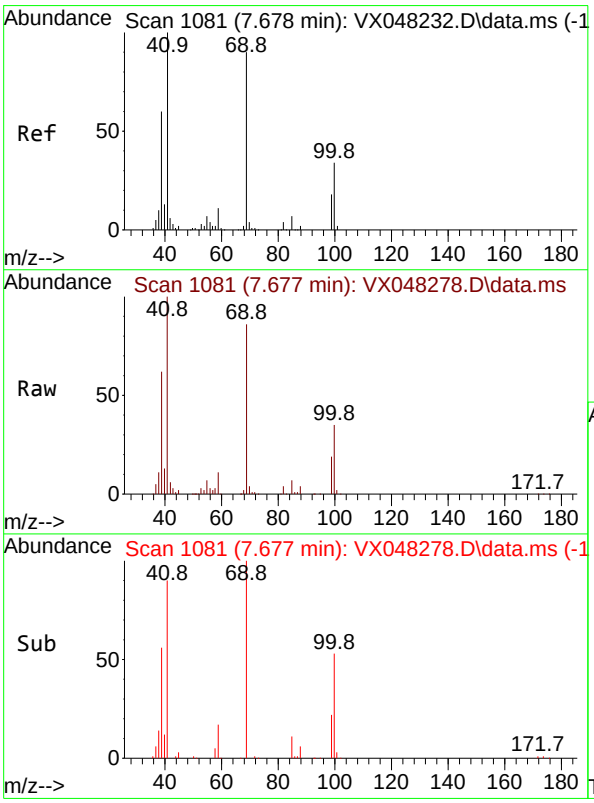
Ion	Ratio	Lower	Upper
83	100		
85	62.1	52.2	78.4
127	8.6	7.3	10.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

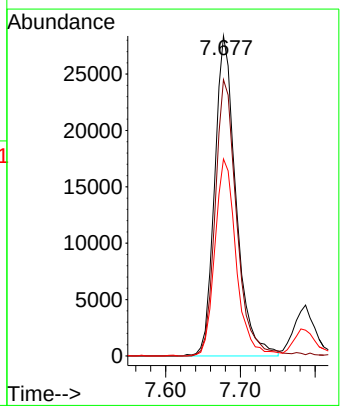


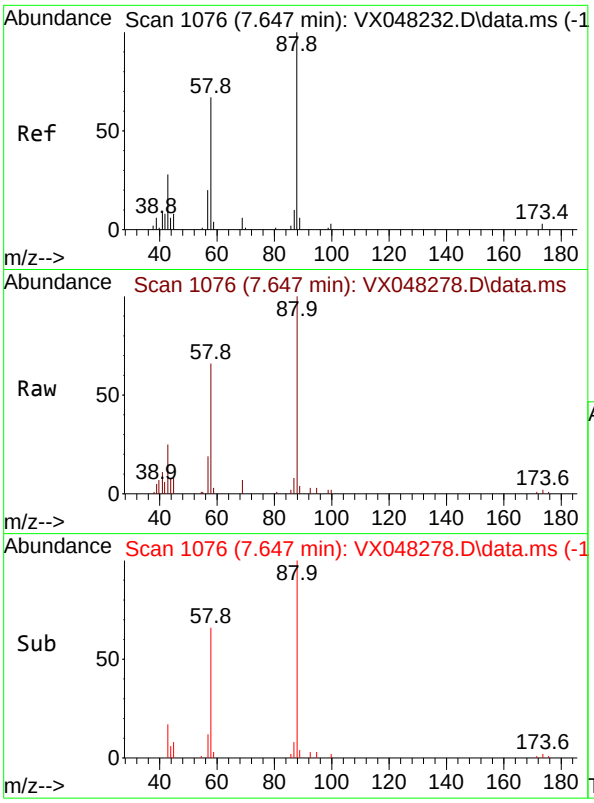


#48
Methyl methacrylate
Concen: 46.243 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 41 Resp: 56463

Ion	Ratio	Lower	Upper
41	100		
69	86.7	63.4	95.0
39	61.4	47.1	70.7





#49
1,4-Dioxane
Concen: 901.119 ug/l
RT: 7.647 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

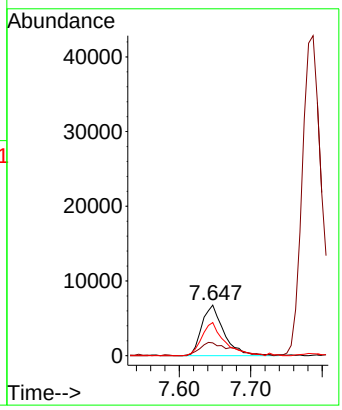
Tgt Ion: 88 Resp: 1453

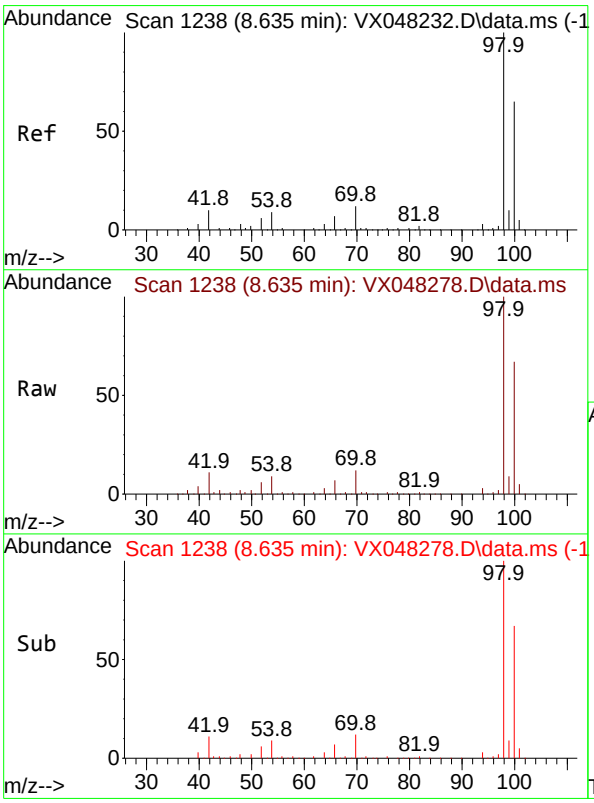
Ion	Ratio	Lower	Upper
88	100		
43	37.8	35.0	52.4
58	66.5	61.9	92.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

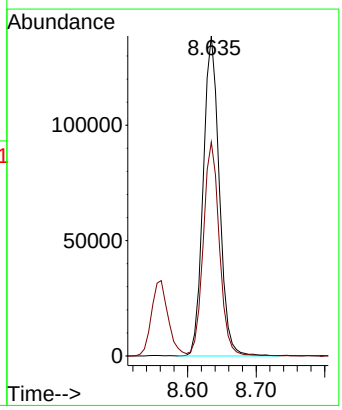


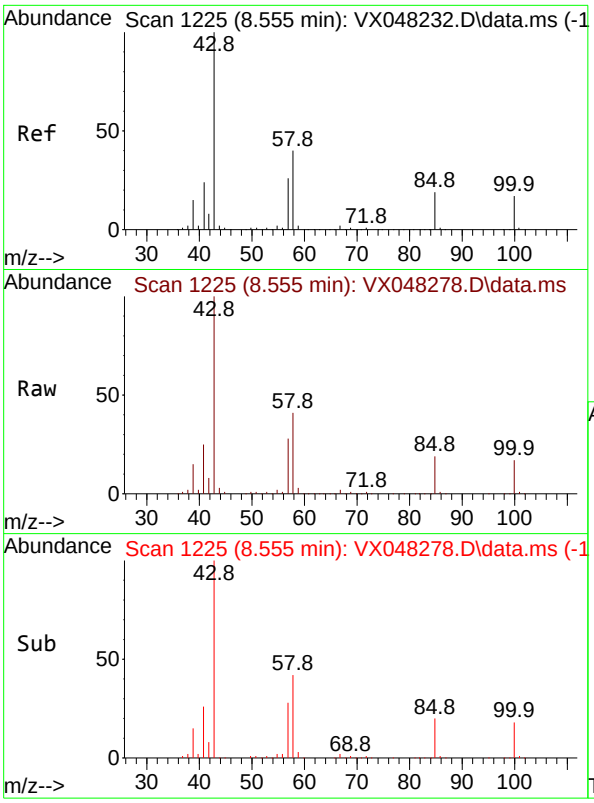


#50
Toluene-d8
Concen: 51.716 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 98 Resp: 226656

Ion	Ratio	Lower	Upper
98	100		
100	66.7	53.0	79.4

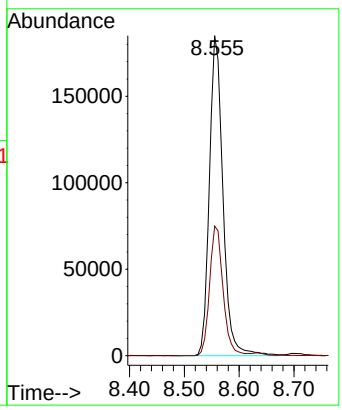




#51
4-Methyl-2-Pentanone
Concen: 227.242 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 43 Resp: 31702

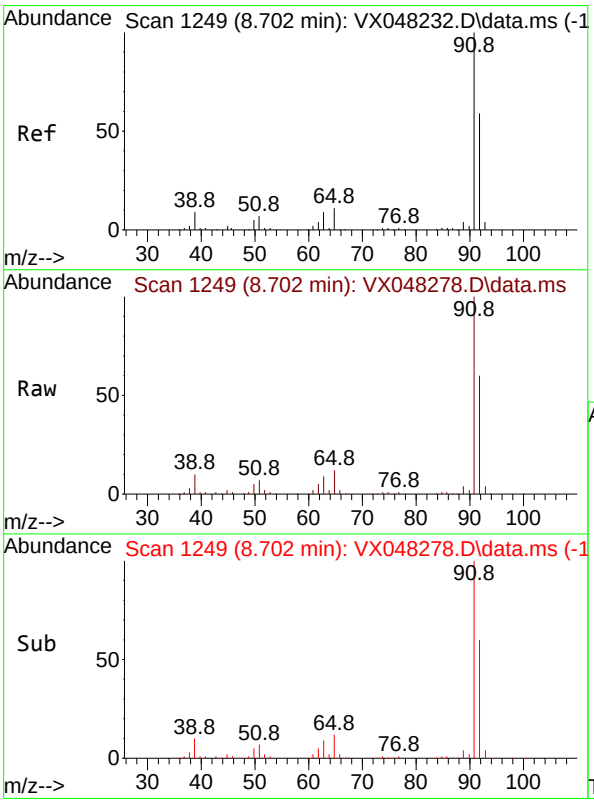
Ion	Ratio	Lower	Upper
43	100		
58	40.4	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

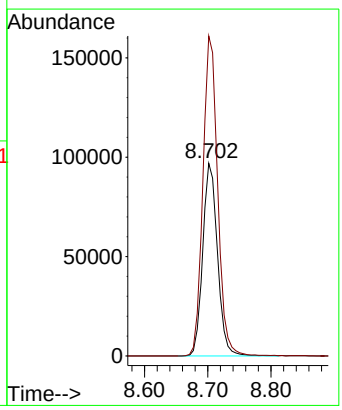
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

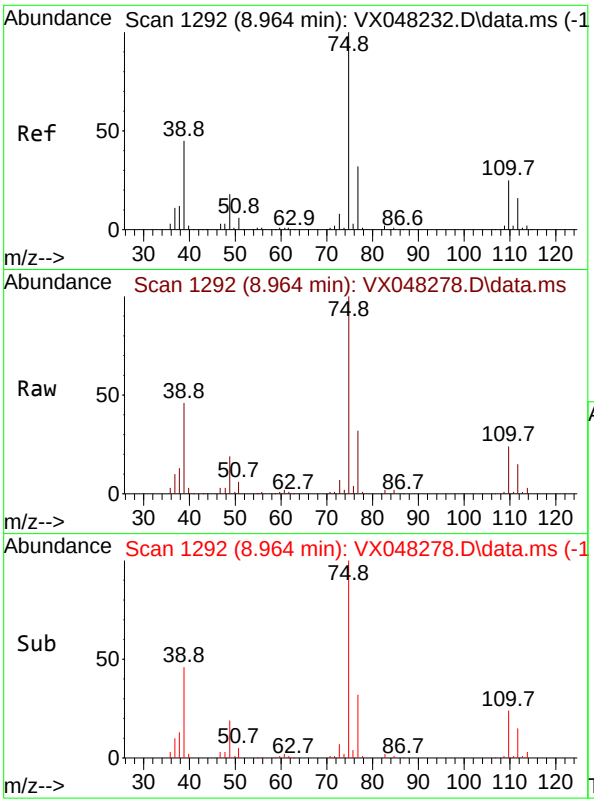


#52
Toluene
Concen: 48.031 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 92 Resp: 157443

Ion	Ratio	Lower	Upper
92	100		
91	166.7	136.1	204.1

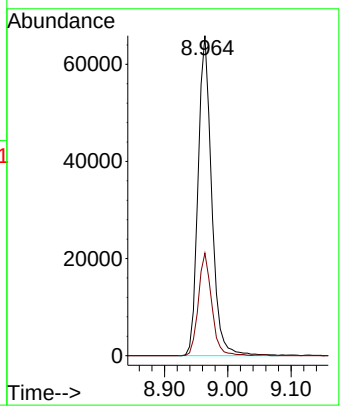




#53
t-1,3-Dichloropropene
Concen: 49.703 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 75 Resp: 9884

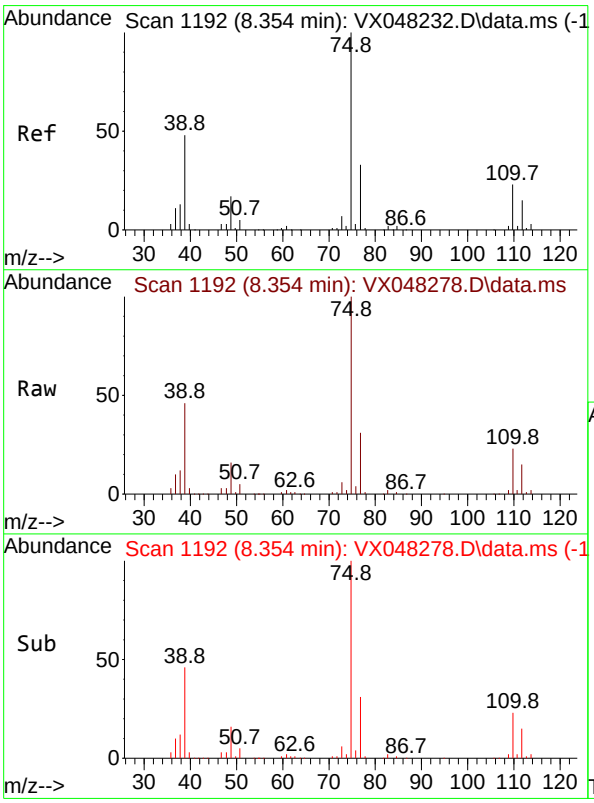
Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

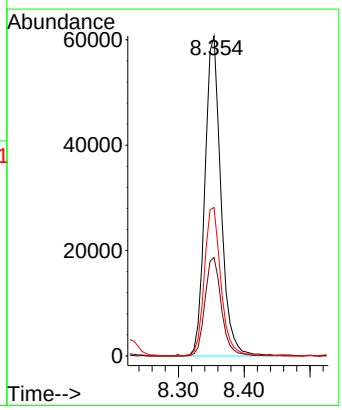
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

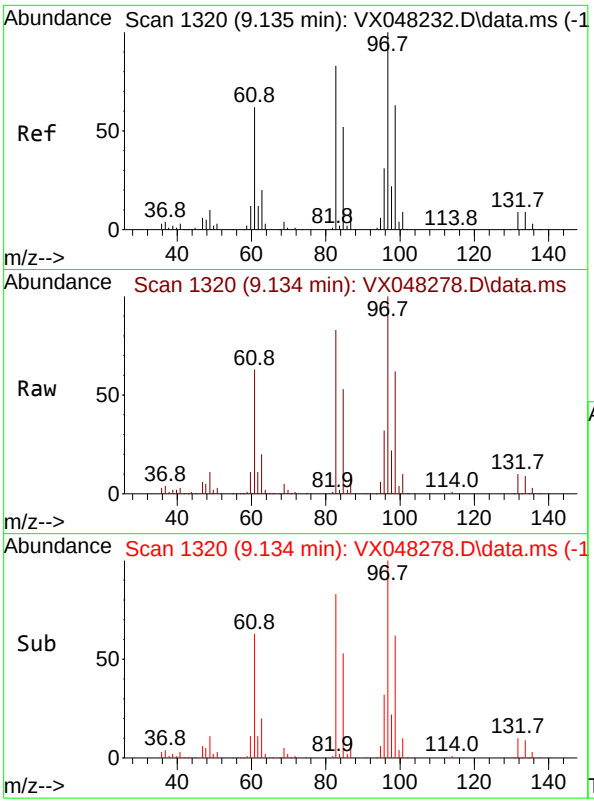


#54
cis-1,3-Dichloropropene
Concen: 47.929 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 75 Resp: 102835

Ion	Ratio	Lower	Upper
75	100		
77	30.8	24.9	37.3
39	46.2	42.6	64.0

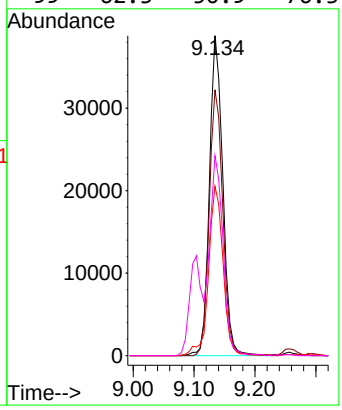




#55
1,1,2-Trichloroethane
Concen: 48.711 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 97 Resp: 5937

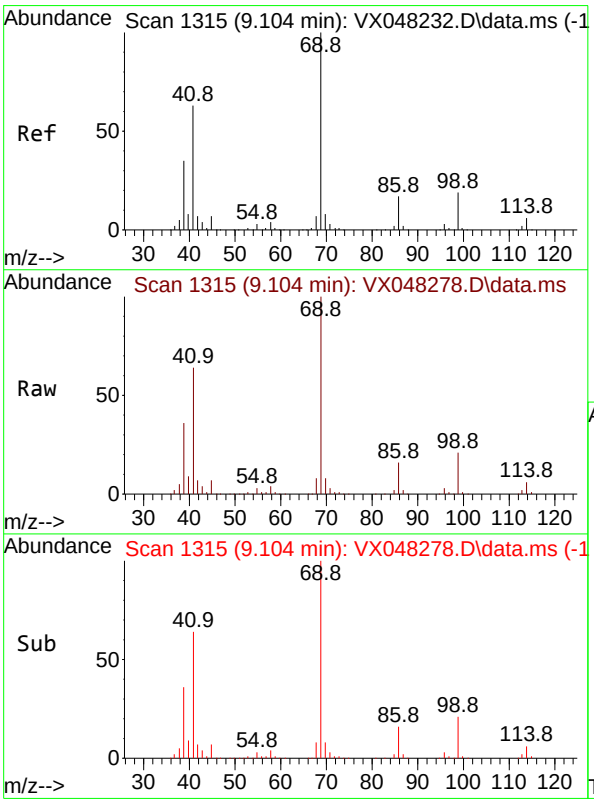
Ion	Ratio	Lower	Upper
97	100		
83	83.1	70.6	105.8
85	52.9	45.0	67.6
99	62.3	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

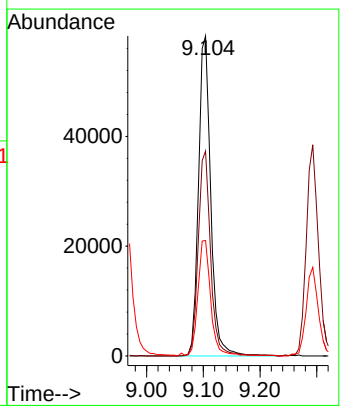
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

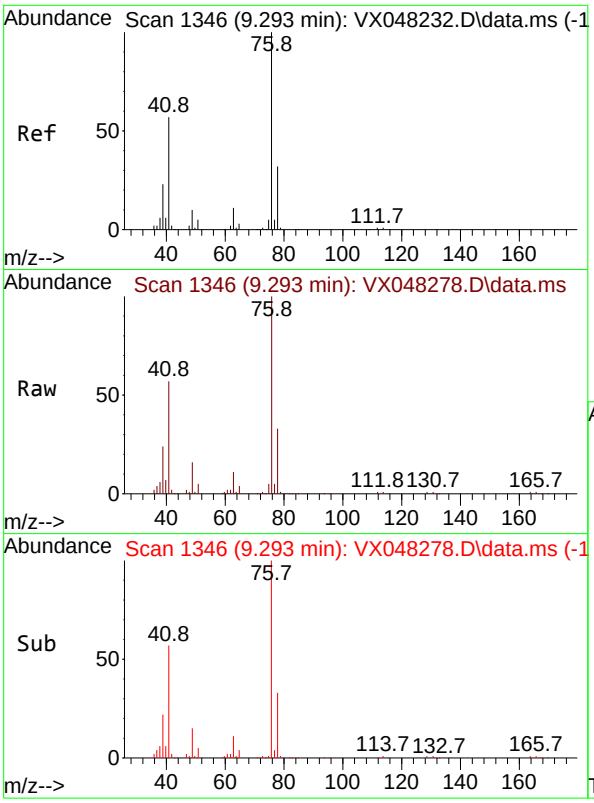


#56
Ethyl methacrylate
Concen: 49.025 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 69 Resp: 87411

Ion	Ratio	Lower	Upper
69	100		
41	64.9	56.0	84.0
39	38.0	31.6	47.4





#57
1,3-Dichloropropane
Concen: 49.295 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

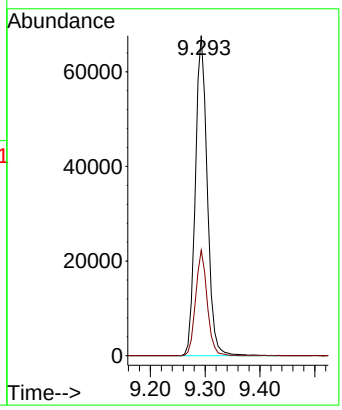
Tgt Ion: 76 Resp: 10264

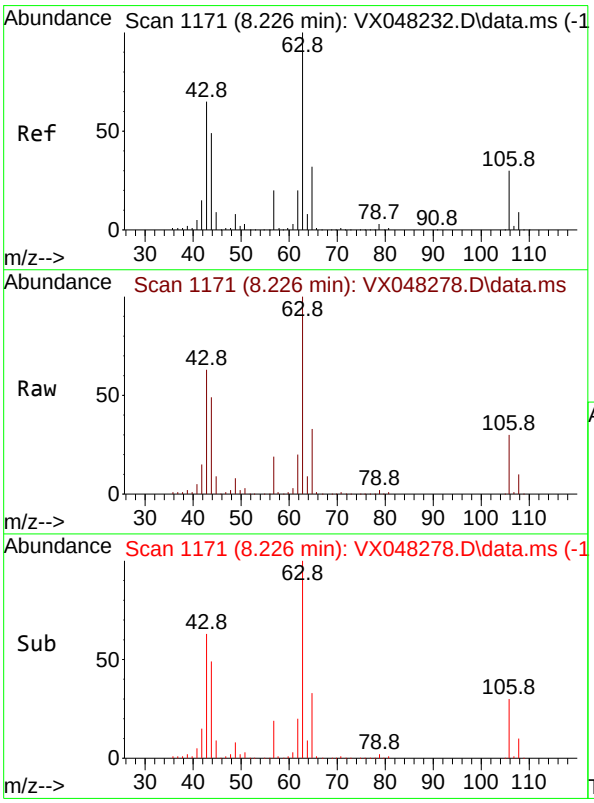
Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.4	38.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

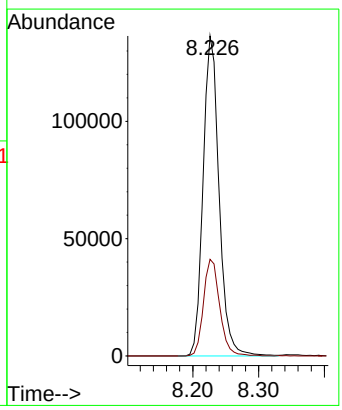


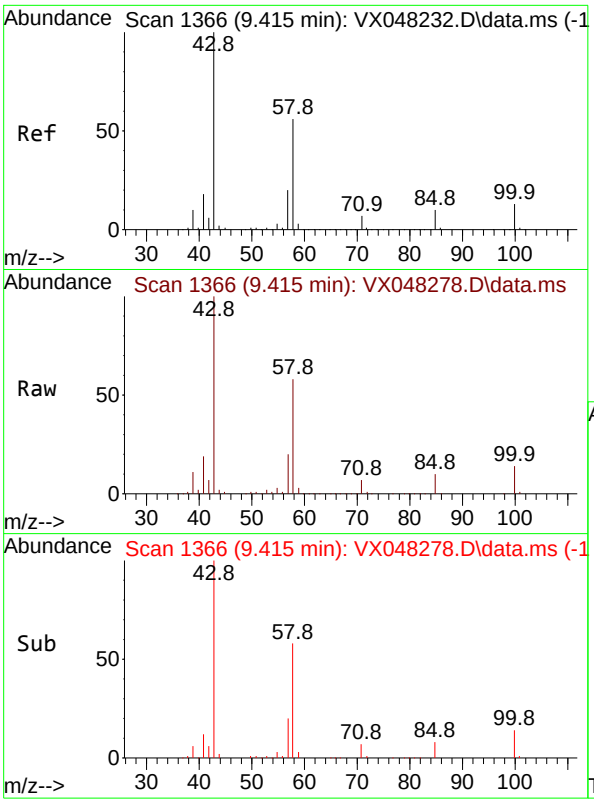


#58
2-Chloroethyl Vinyl ether
Concen: 240.651 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 63 Resp: 230656

Ion	Ratio	Lower	Upper
63	100		
106	30.7	22.2	33.2





#59
2-Hexanone
Concen: 229.287 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

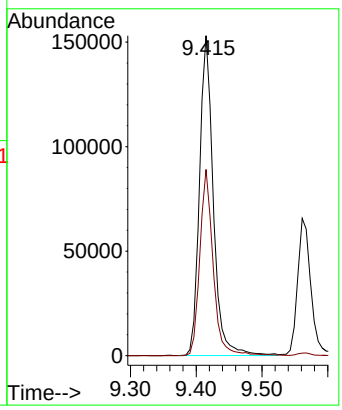
Tgt Ion: 43 Resp: 22305

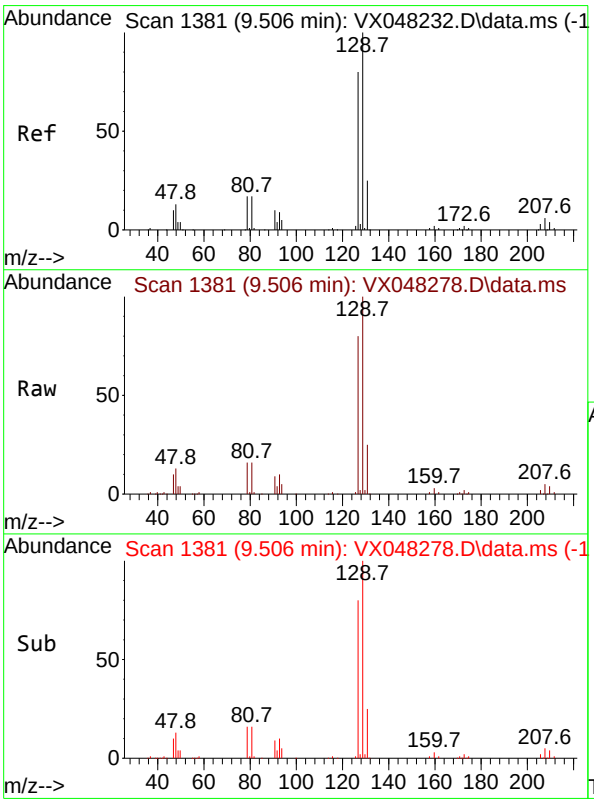
Ion	Ratio	Lower	Upper
43	100		
58	56.4	26.3	78.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

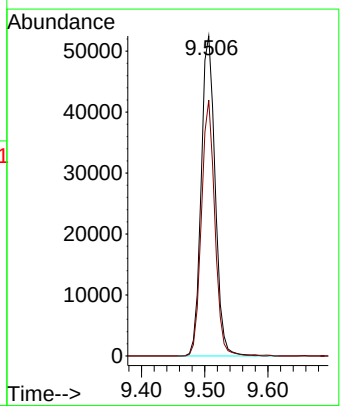


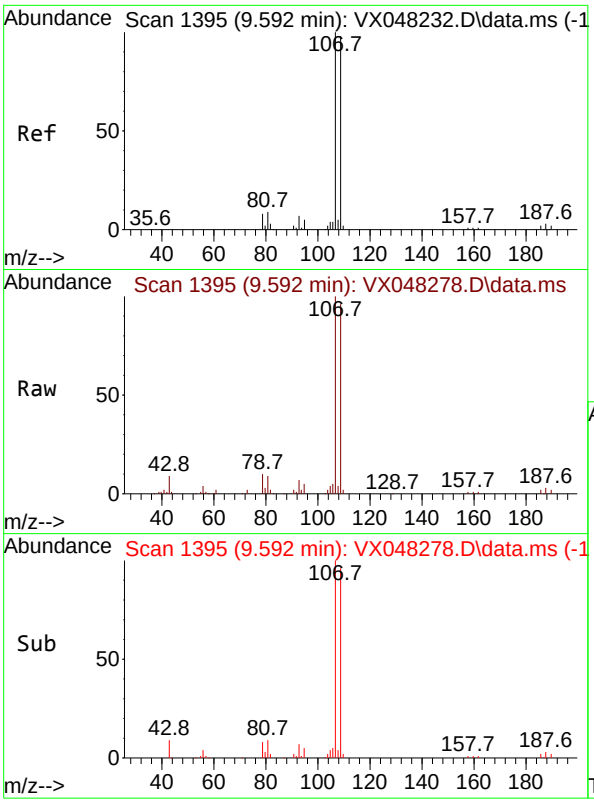


#60
Dibromochloromethane
Concen: 49.293 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:129 Resp: 80763

Ion	Ratio	Lower	Upper
129	100		
127	76.6	38.6	115.7





#61
1,2-Dibromoethane
Concen: 48.532 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

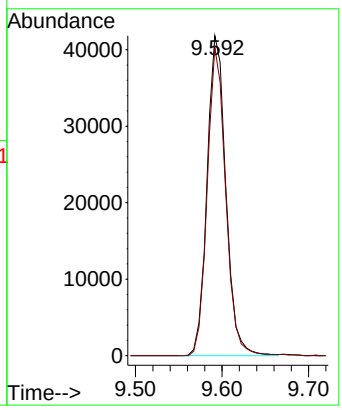
Tgt Ion:107 Resp: 6307

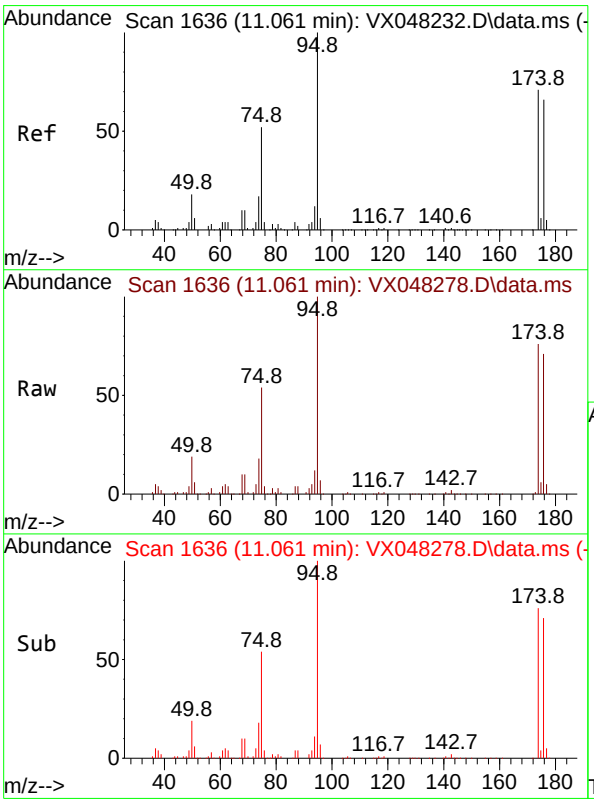
Ion	Ratio	Lower	Upper
107	100		
109	94.6	77.0	115.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

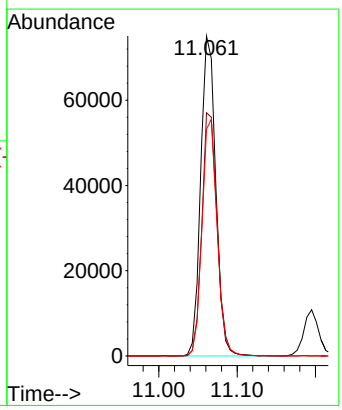


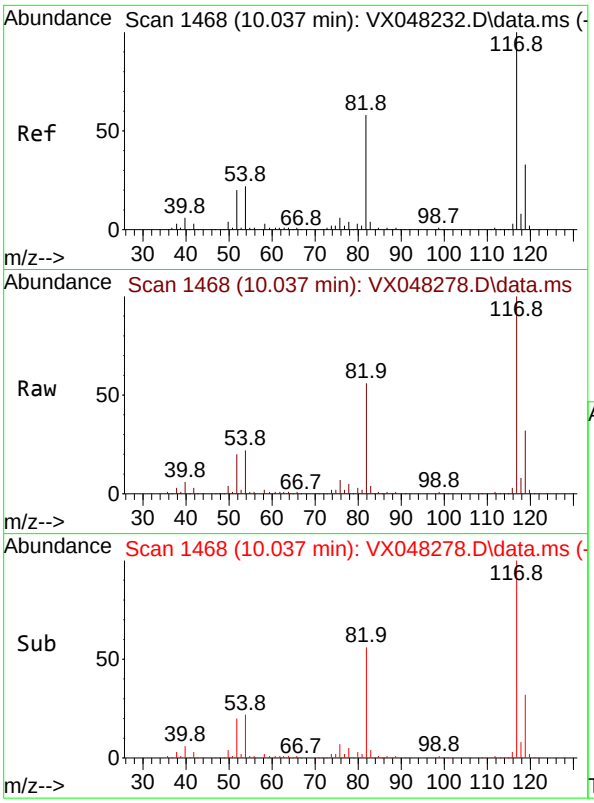


#62
4-Bromofluorobenzene
Concen: 60.121 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 95 Resp: 100241

Ion	Ratio	Lower	Upper
95	100		
174	76.9	0.0	147.8
176	73.9	0.0	142.8

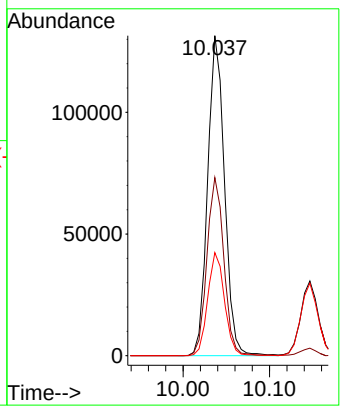




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:117 Resp: 17767

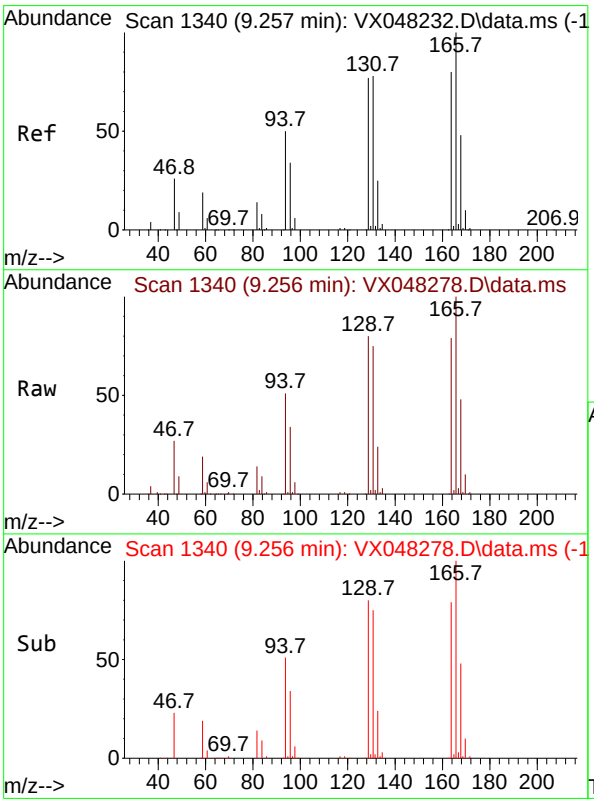
Ion	Ratio	Lower	Upper
117	100		
82	55.7	46.5	69.7
119	32.2	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

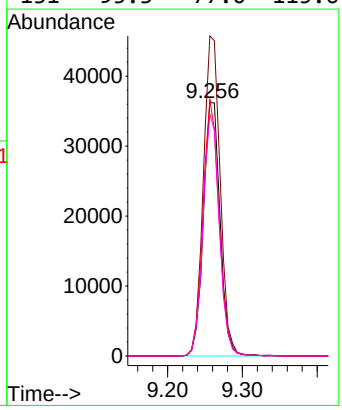
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

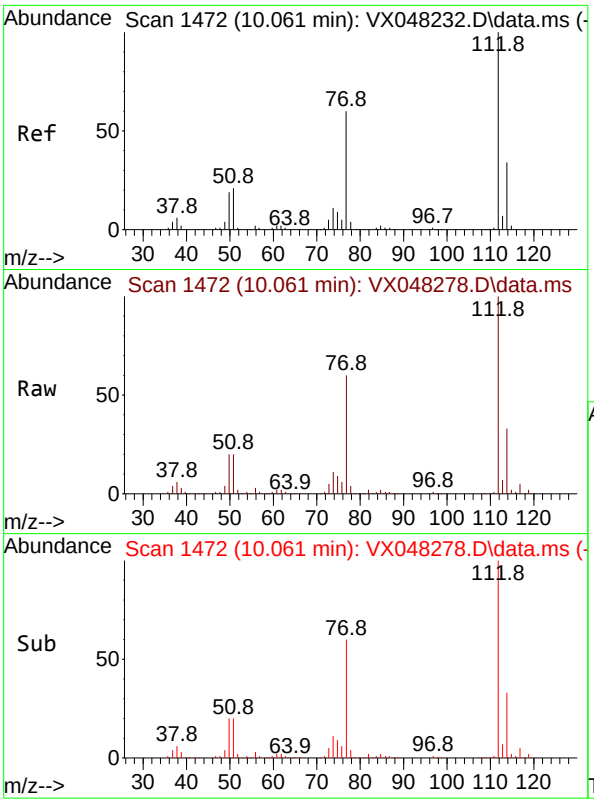


#64
Tetrachloroethene
Concen: 42.374 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:164 Resp: 56206

Ion	Ratio	Lower	Upper
164	100		
166	126.2	104.5	156.7
129	101.1	81.8	122.6
131	95.3	77.0	115.6

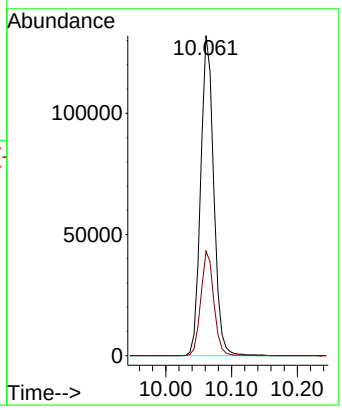




#65
Chlorobenzene
Concen: 45.637 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:112 Resp: 18240

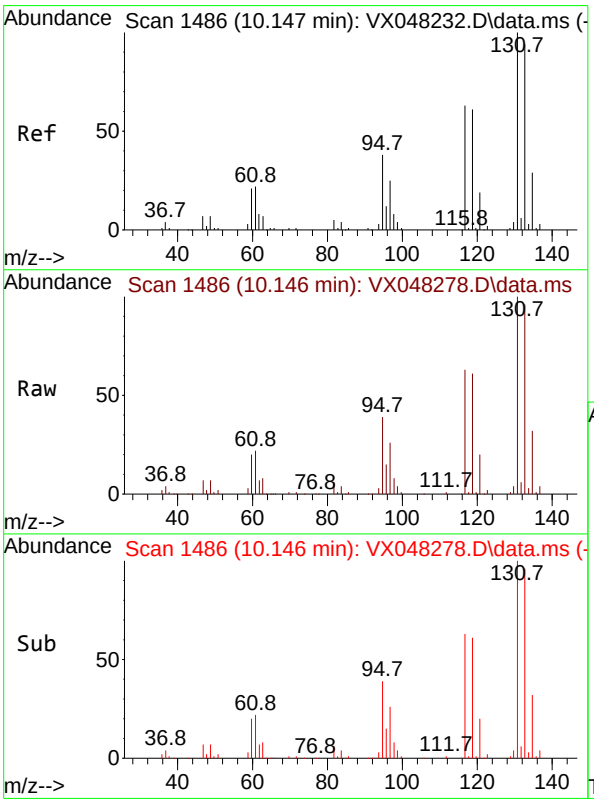
Ion	Ratio	Lower	Upper
112	100		
114	32.6	26.2	39.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

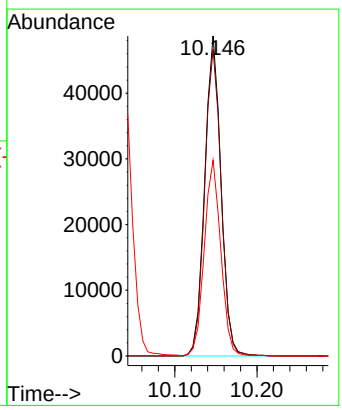
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

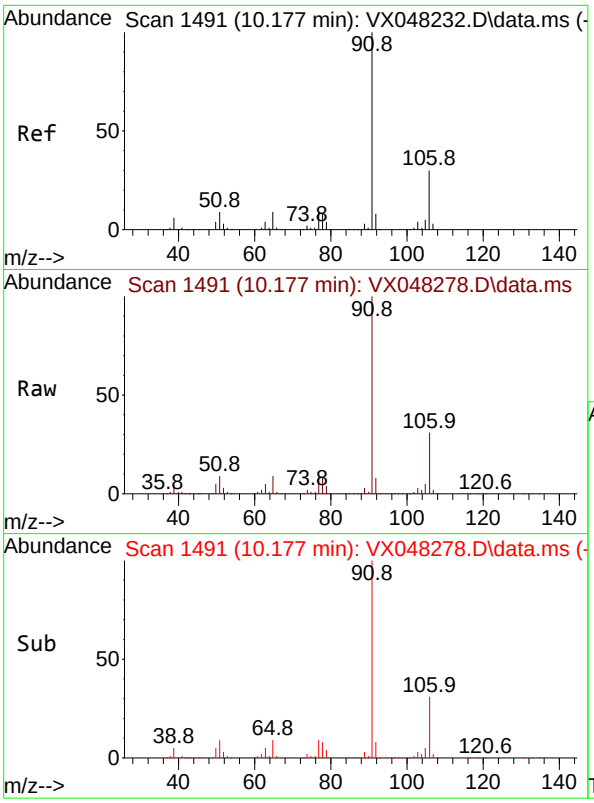


#66
1,1,1,2-Tetrachloroethane
Concen: 45.726 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:131 Resp: 67128

Ion	Ratio	Lower	Upper
131	100		
133	96.7	47.6	142.8
119	62.0	32.5	97.5





#67
Ethyl Benzene
Concen: 45.338 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

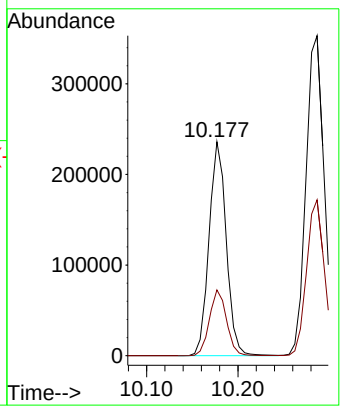
Tgt Ion: 91 Resp: 30852

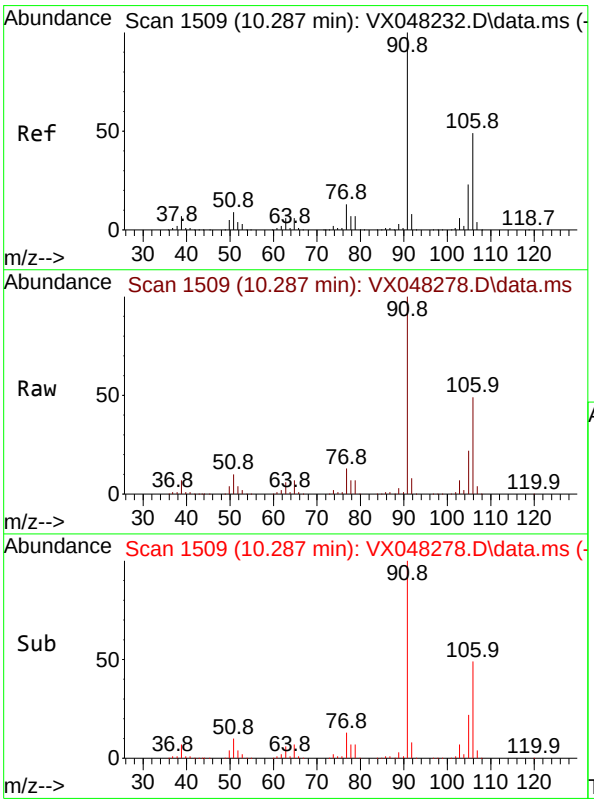
Ion	Ratio	Lower	Upper
91	100		
106	30.7	23.8	35.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

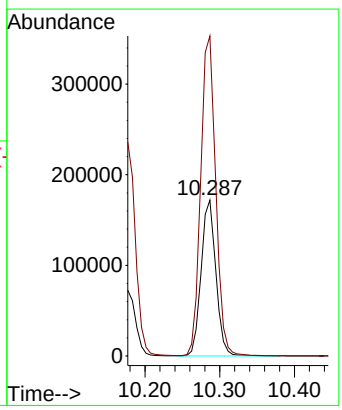


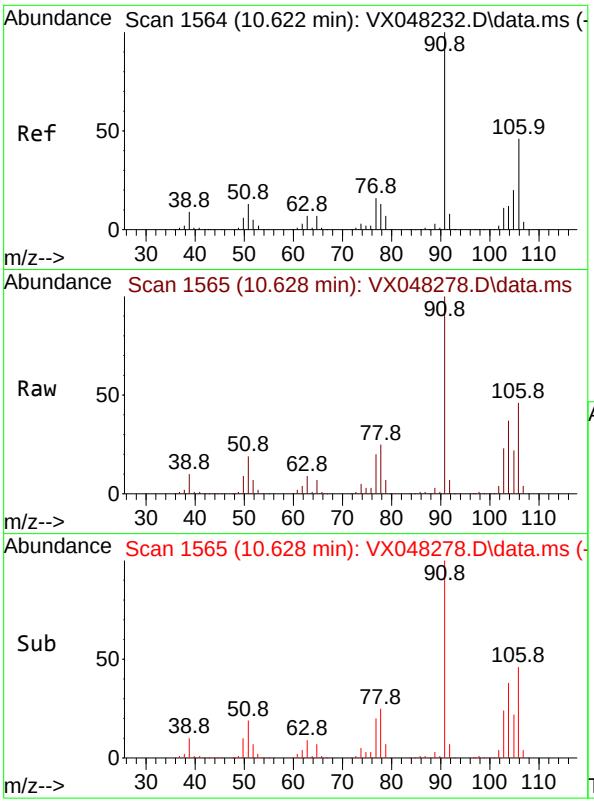


#68
m/p-Xylenes
Concen: 93.046 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:106 Resp: 235258

Ion	Ratio	Lower	Upper
106	100		
91	209.5	167.9	251.9

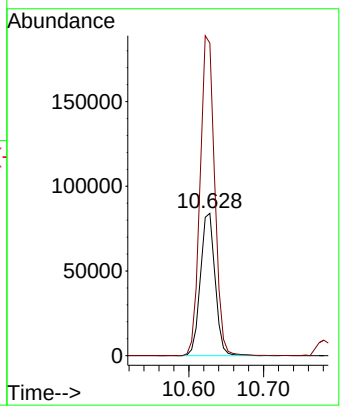




#69
o-Xylene
Concen: 46.976 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:106 Resp: 11467

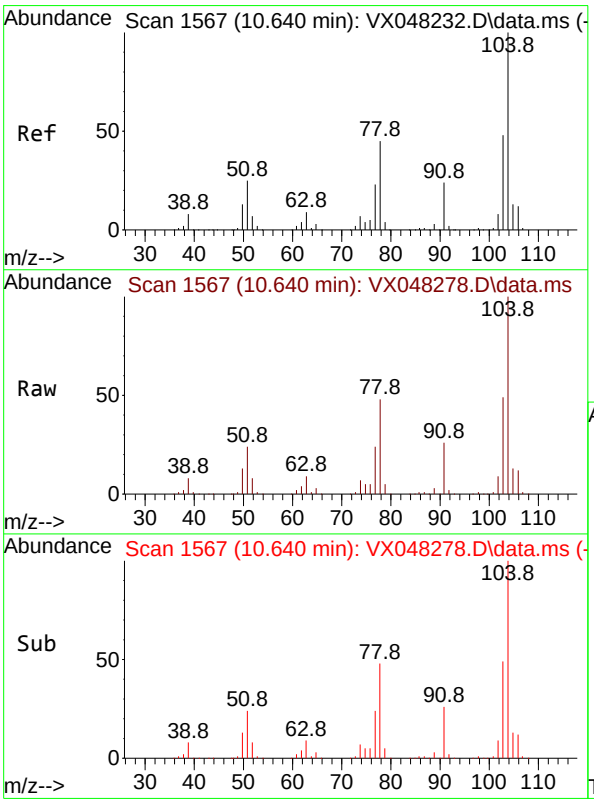
Ion	Ratio	Lower	Upper
106	100		
91	223.5	111.3	333.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

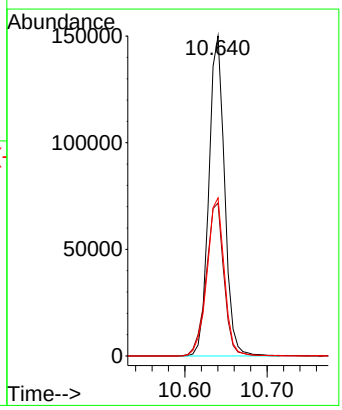
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

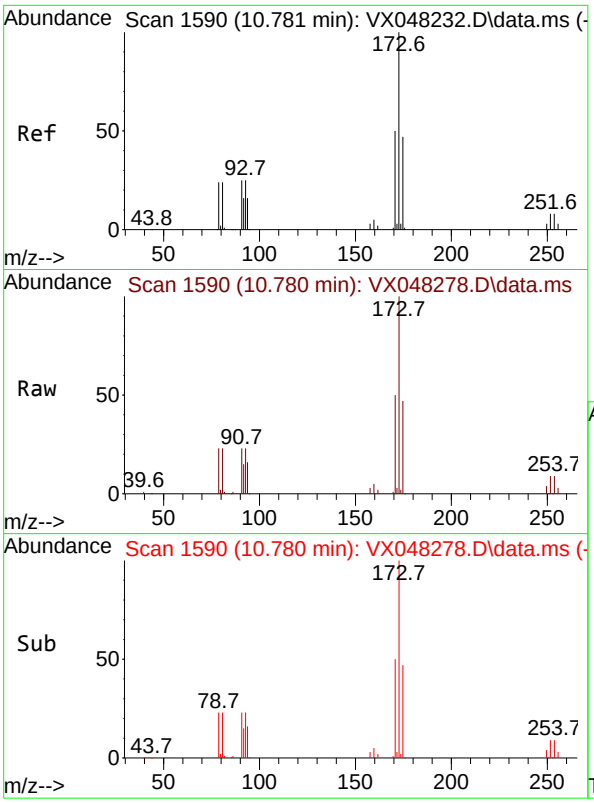


#70
Styrene
Concen: 48.144 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:104 Resp: 200106

Ion	Ratio	Lower	Upper
104	100		
78	53.5	42.2	63.4
103	54.2	43.0	64.4





#71
Bromoform
Concen: 46.009 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

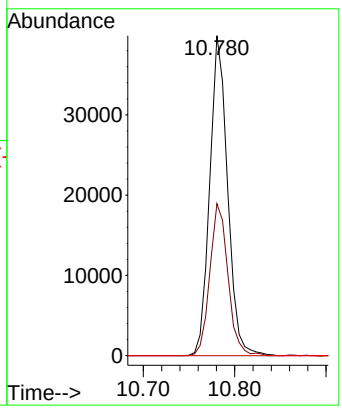
Tgt Ion:173 Resp: 5398

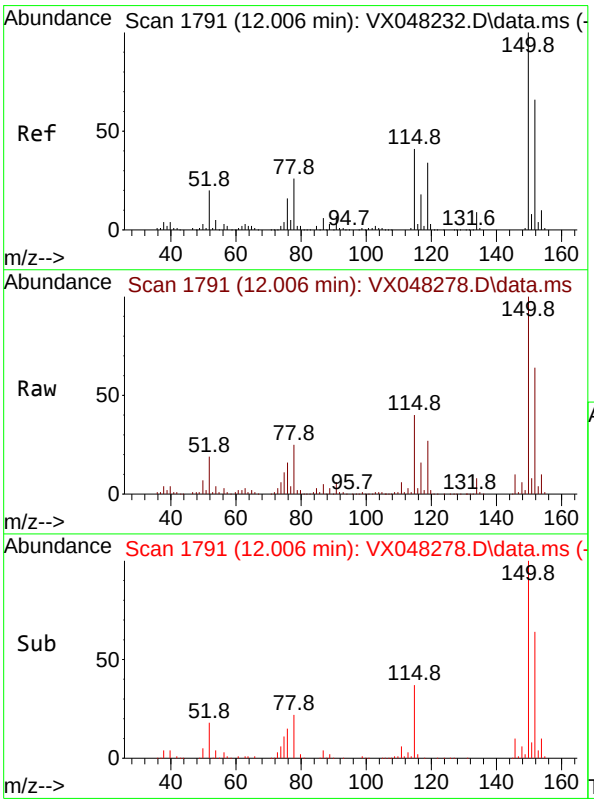
Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.0	72.0
254	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

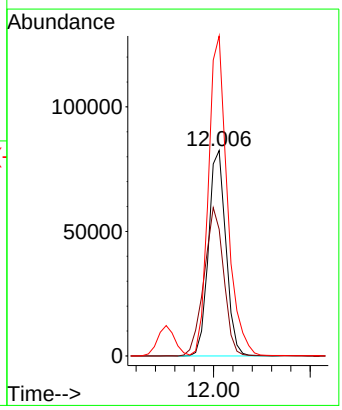


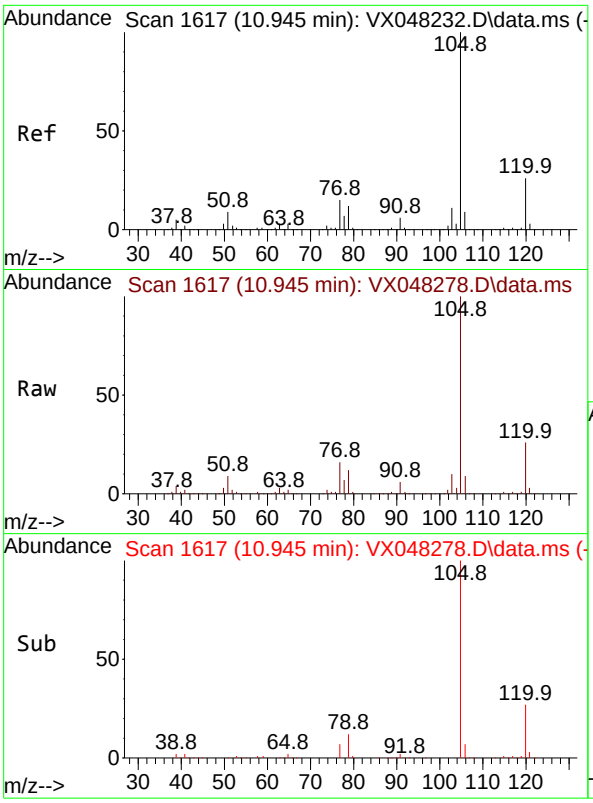


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:152 Resp: 103139

Ion	Ratio	Lower	Upper
152	100		
115	81.5	43.1	129.4
150	168.7	0.0	353.0





#73
Isopropylbenzene
Concen: 41.323 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

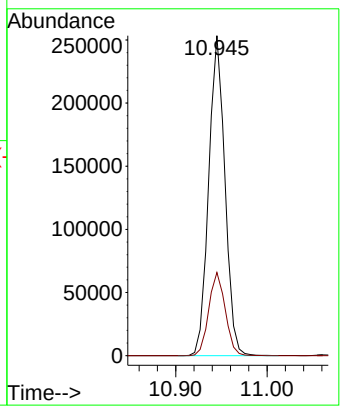
Tgt Ion:105 Resp: 31129

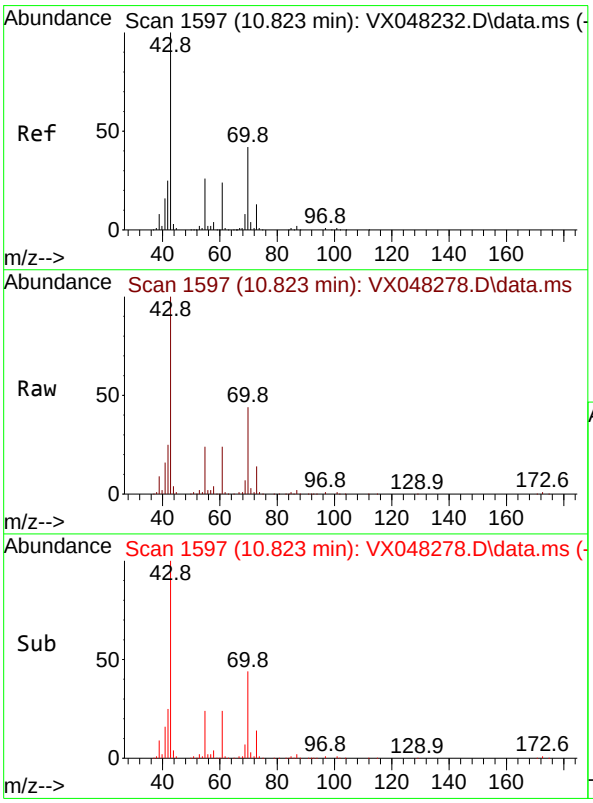
Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.0	38.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

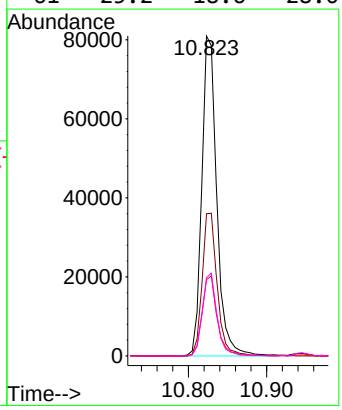


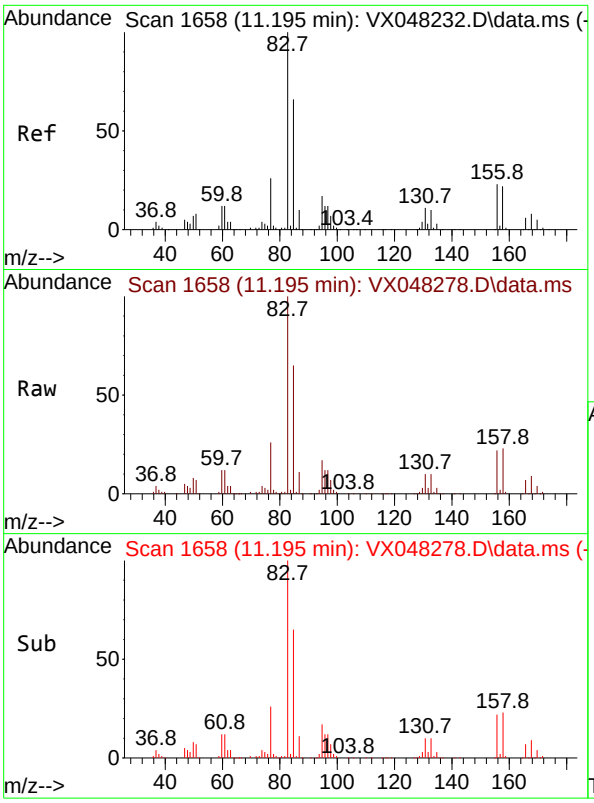


#74
N-amyl acetate
Concen: 40.243 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 43 Resp: 107536

Ion	Ratio	Lower	Upper
43	100		
70	44.7	32.2	48.2
55	25.2	19.1	28.7
61	25.2	18.6	28.0





#75
1,1,2,2-Tetrachloroethane
Concen: 42.247 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

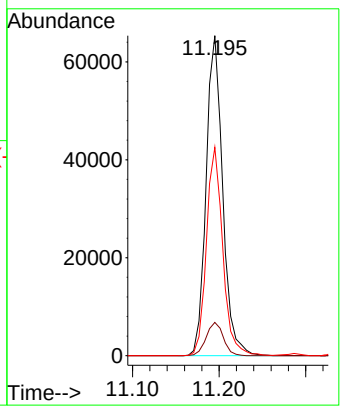
Tgt Ion: 83 Resp: 8691

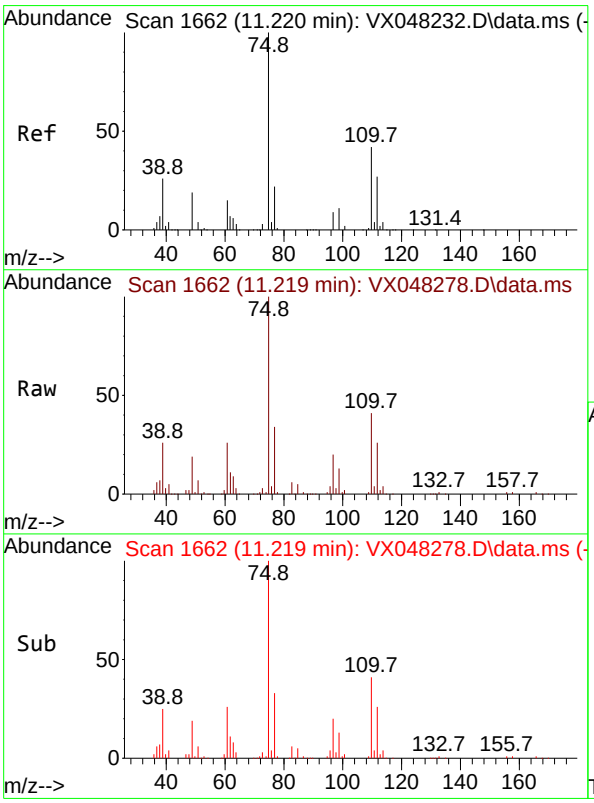
Ion	Ratio	Lower	Upper
83	100		
131	10.8	4.8	14.4
85	64.2	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

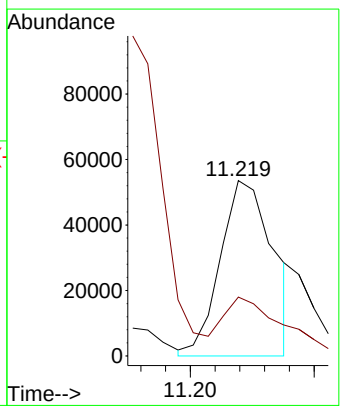


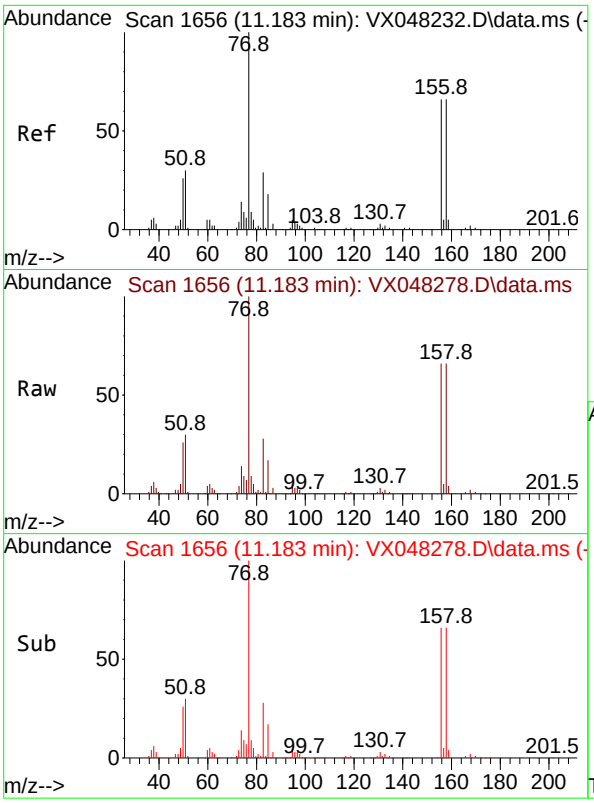


#76
1,2,3-Trichloropropane
Concen: 47.529 ug/l m
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 75 Resp: 79495

Ion	Ratio	Lower	Upper
75	100		
77	38.2	22.4	67.2





#77
Bromobenzene
Concen: 42.643 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

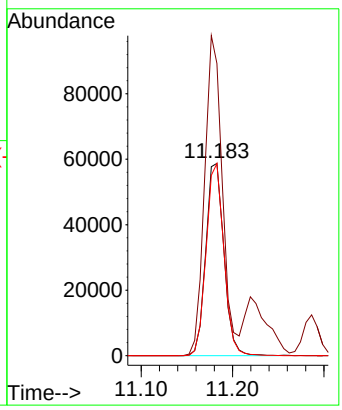
Tgt Ion:156 Resp: 8054

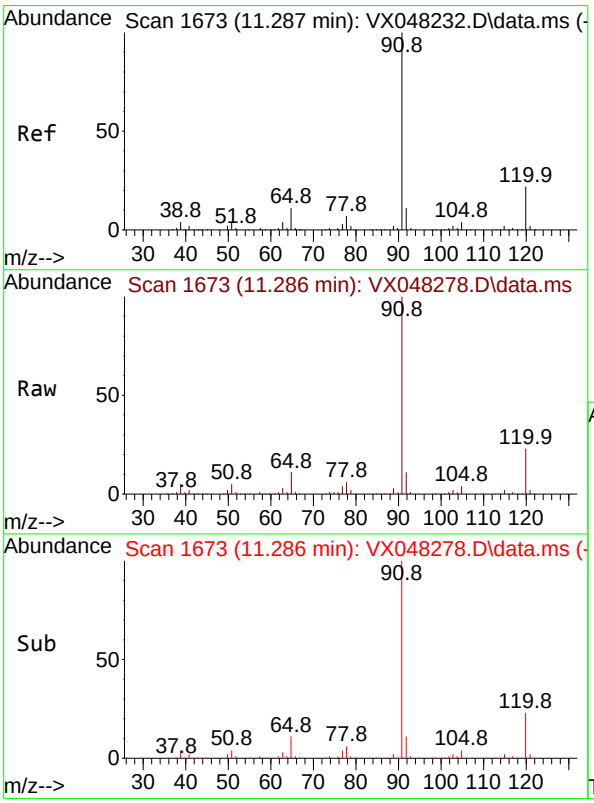
Ion	Ratio	Lower	Upper
156	100		
77	162.8	87.0	261.0
158	98.1	47.8	143.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

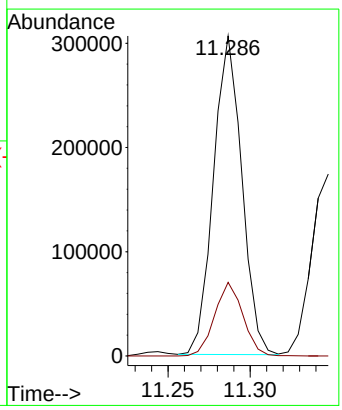


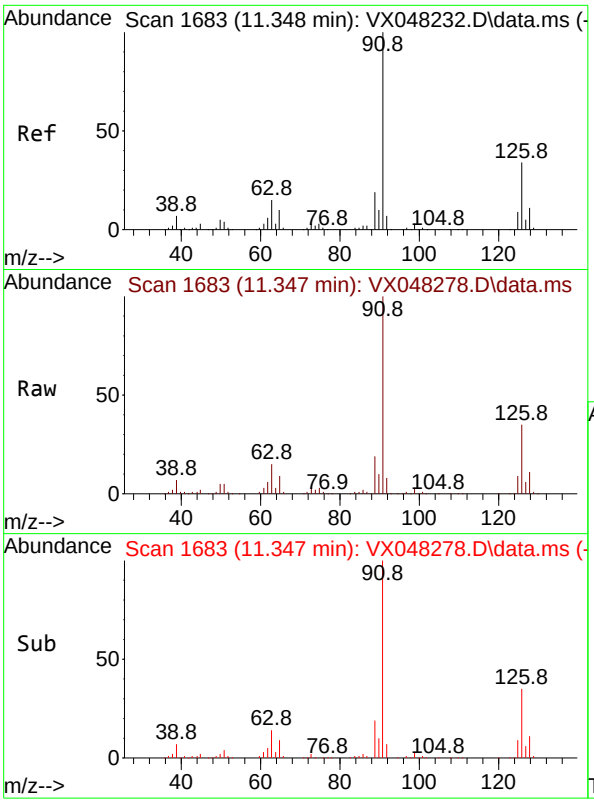


#78
n-propylbenzene
Concen: 41.944 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 91 Resp: 365847

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.1	33.1





#79
2-Chlorotoluene
Concen: 41.700 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

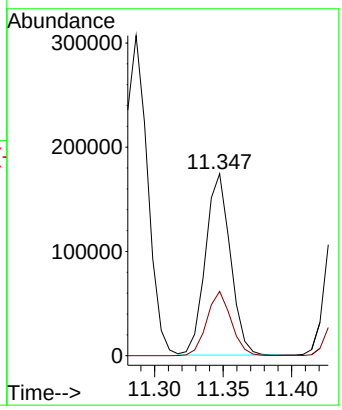
Tgt Ion: 91 Resp: 22051

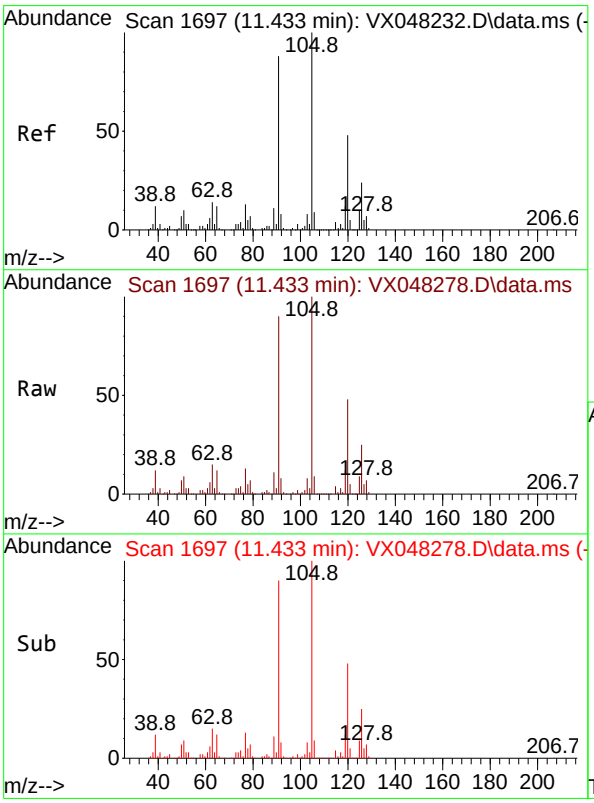
Ion	Ratio	Lower	Upper
91	100		
126	34.6	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

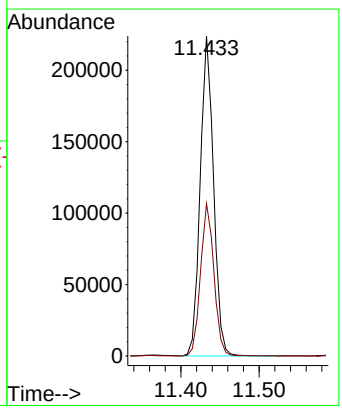


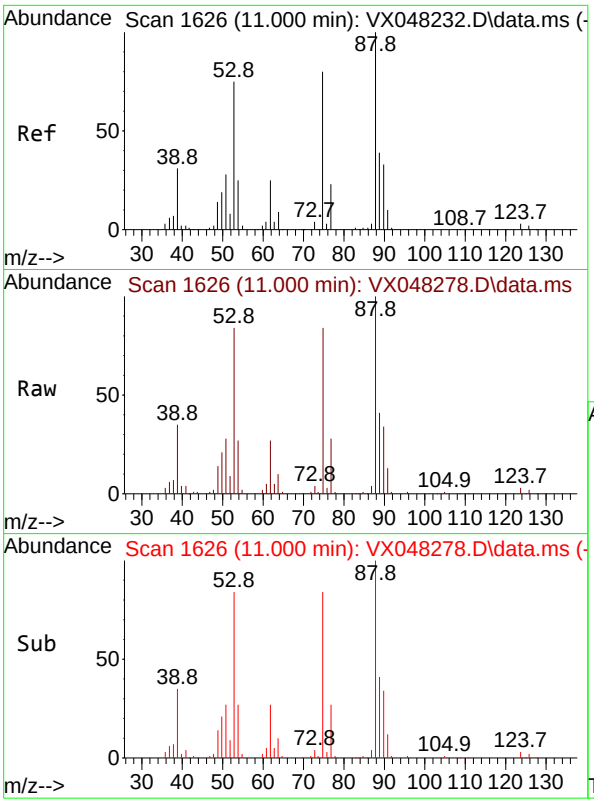


#80
1,3,5-Trimethylbenzene
Concen: 42.365 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:105 Resp: 264110

Ion	Ratio	Lower	Upper
105	100		
120	47.9	24.0	72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 40.195 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

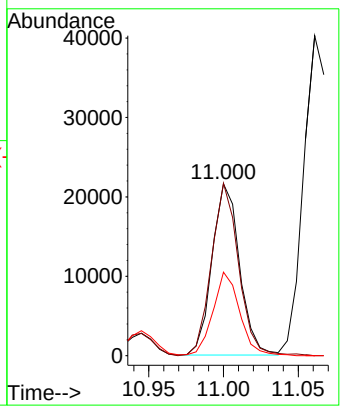
Tgt Ion: 75 Resp: 2763

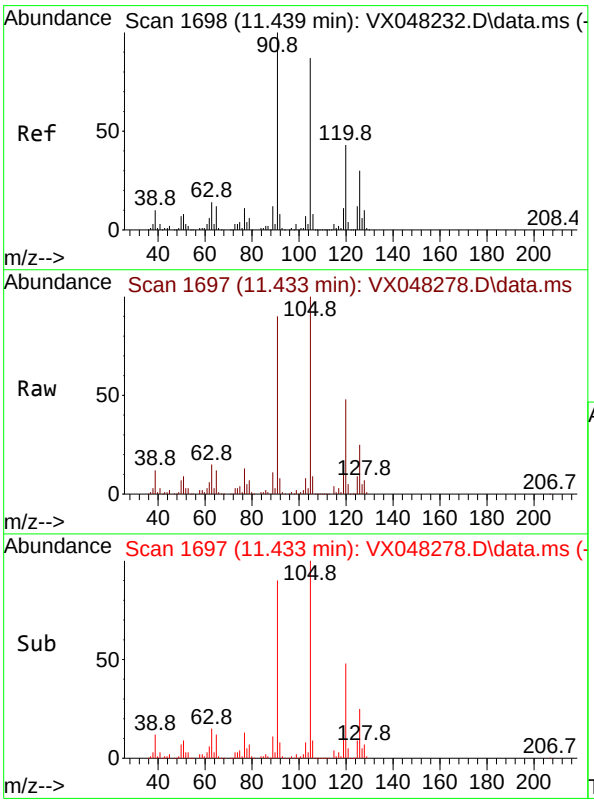
Ion	Ratio	Lower	Upper
75	100		
53	99.4	79.5	119.3
89	47.4	36.8	55.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

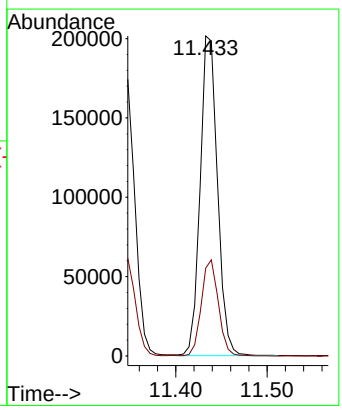


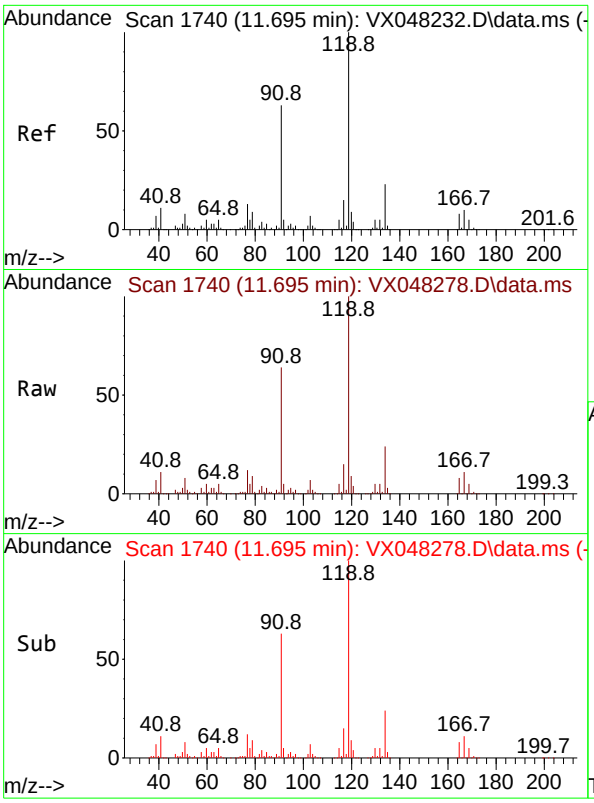


#82
4-Chlorotoluene
Concen: 42.258 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 91 Resp: 265279

Ion	Ratio	Lower	Upper
91	100		
126	29.4	14.1	42.4

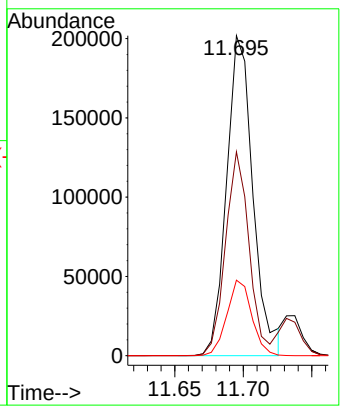




#83
tert-Butylbenzene
Concen: 42.107 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:119 Resp: 26971

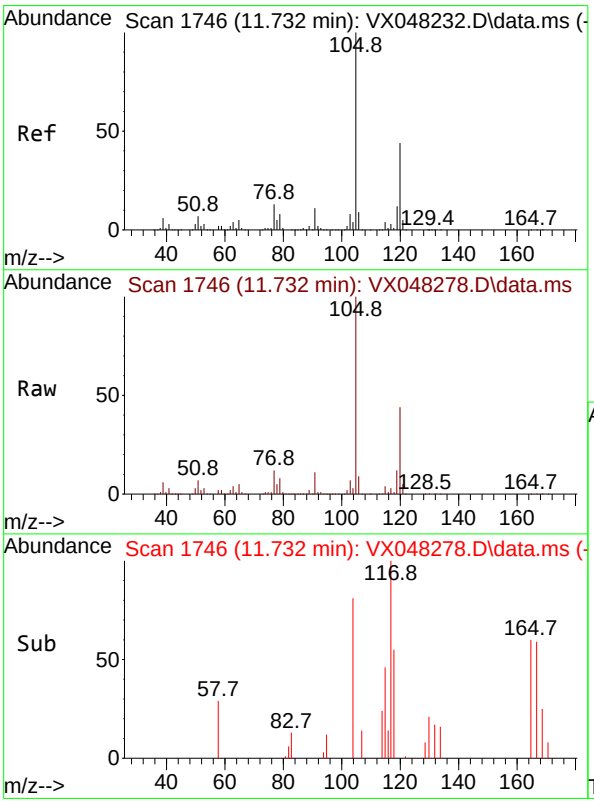
Ion	Ratio	Lower	Upper
119	100		
91	57.2	30.3	91.0
134	22.3	11.4	34.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

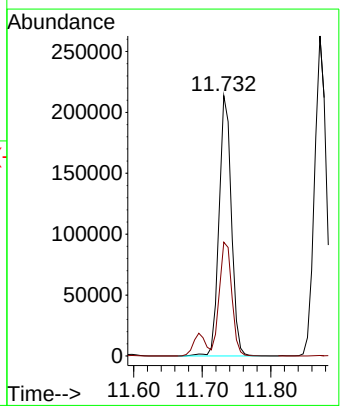
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

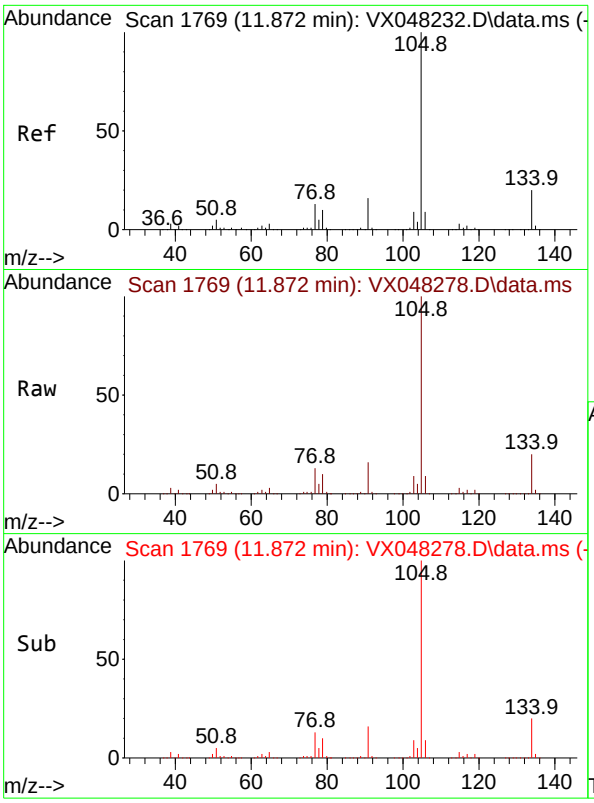


#84
1,2,4-Trimethylbenzene
Concen: 42.577 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:105 Resp: 264898

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.1	66.5





#85
sec-Butylbenzene
Concen: 40.863 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

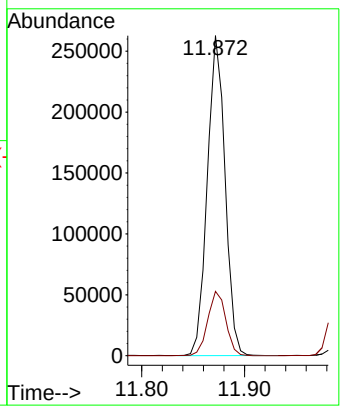
Tgt Ion:105 Resp: 31490

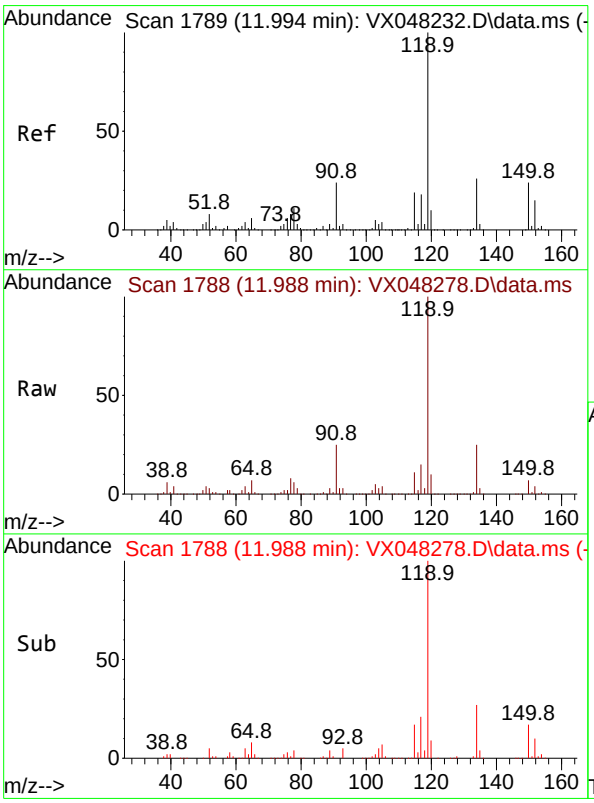
Ion	Ratio	Lower	Upper
105	100		
134	20.5	10.1	30.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

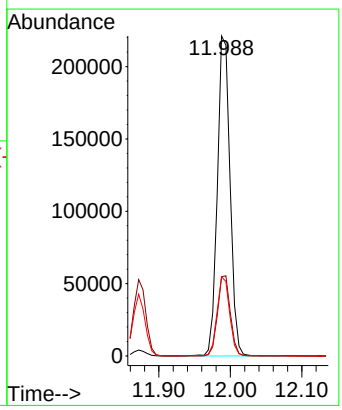


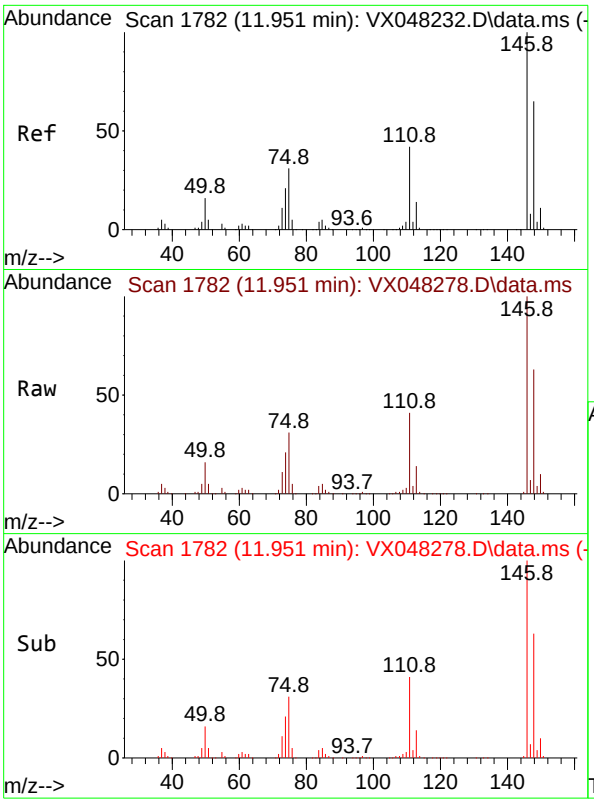


#86
p-Isopropyltoluene
Concen: 40.931 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:119 Resp: 272639

Ion	Ratio	Lower	Upper
119	100		
134	25.2	13.0	39.0
91	24.5	12.1	36.3

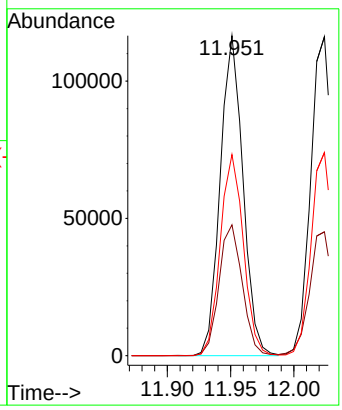




#87
1,3-Dichlorobenzene
Concen: 40.908 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:146 Resp: 14566

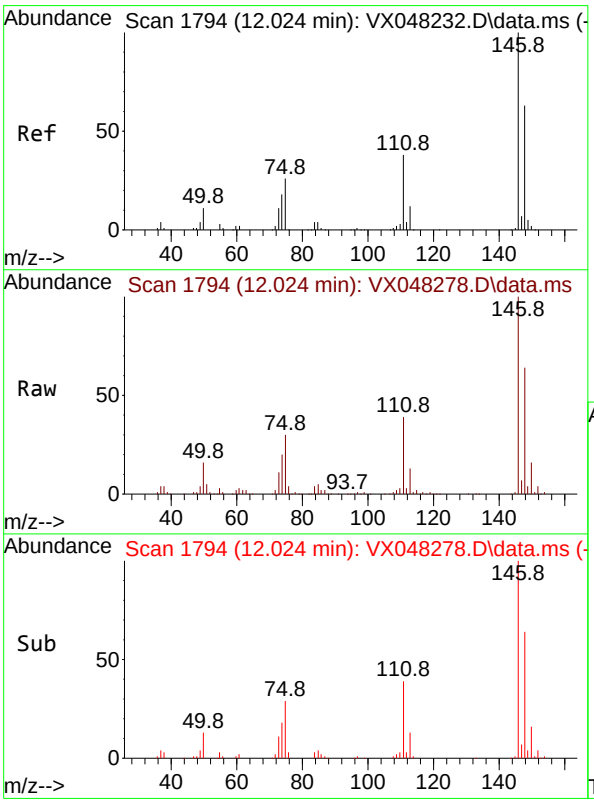
Ion	Ratio	Lower	Upper
146	100		
111	42.1	20.4	61.2
148	63.9	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

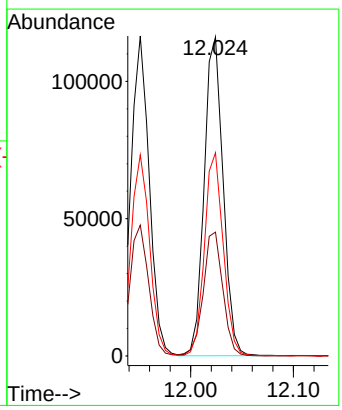
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

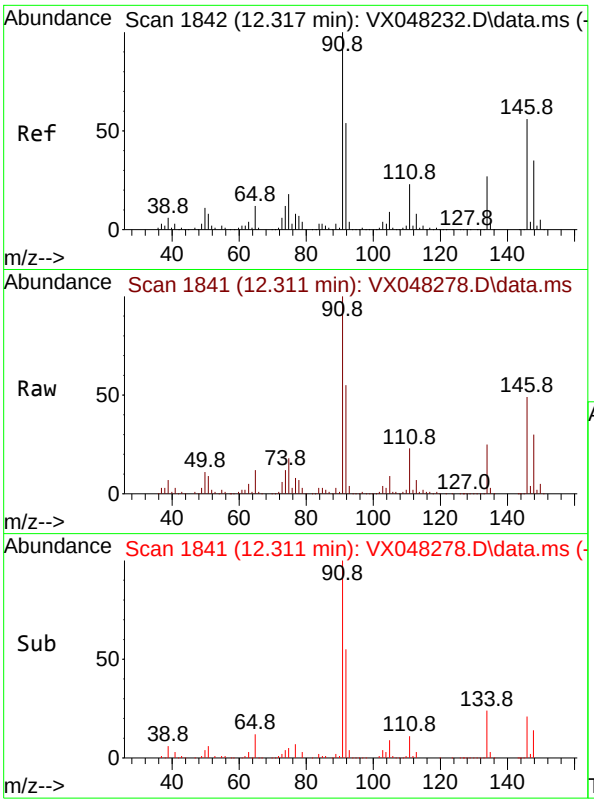


#88
1,4-Dichlorobenzene
Concen: 40.270 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:146 Resp: 148555

Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.1	60.2
148	63.4	31.8	95.3





#89
n-Butylbenzene
Concen: 39.088 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

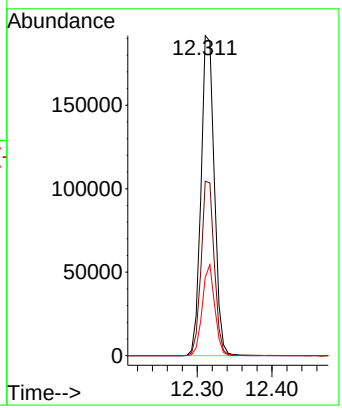
Tgt Ion: 91 Resp: 23698

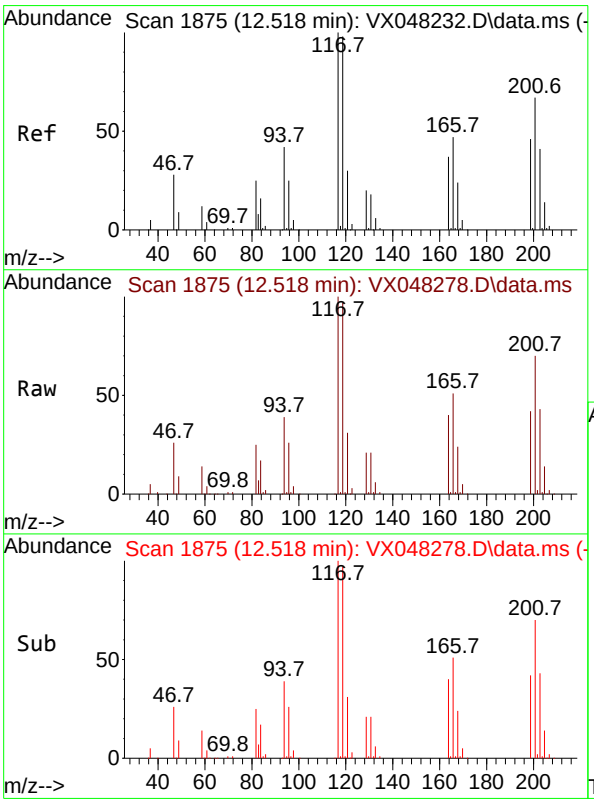
Ion	Ratio	Lower	Upper
91	100		
92	54.0	26.9	80.6
134	26.6	12.7	38.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

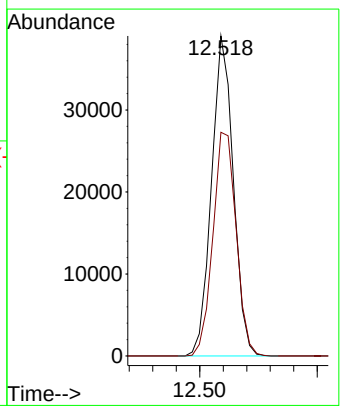


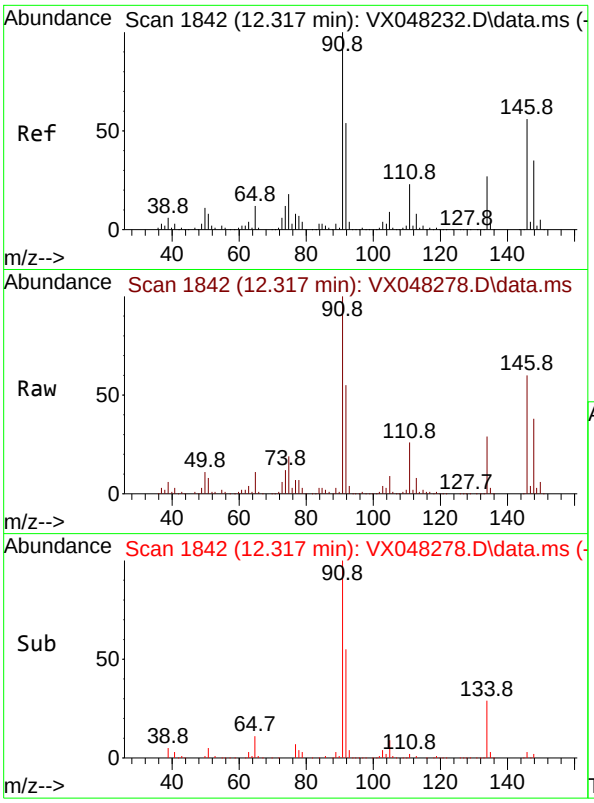


#90
Hexachloroethane
Concen: 38.153 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:117 Resp: 50186

Ion	Ratio	Lower	Upper
117	100		
201	74.6	34.1	102.2

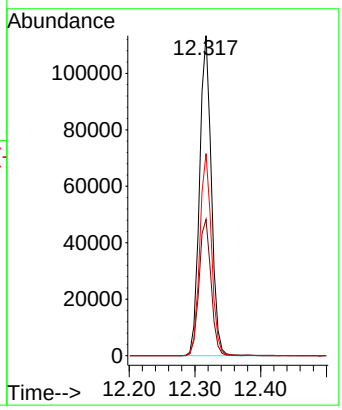




#91
1,2-Dichlorobenzene
Concen: 42.066 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:146 Resp: 14063

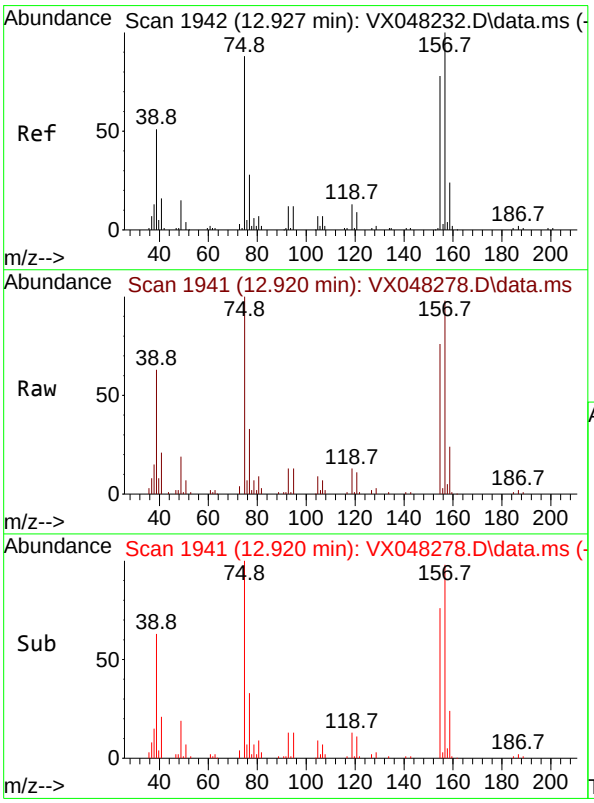
Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.9	65.5
148	62.7	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

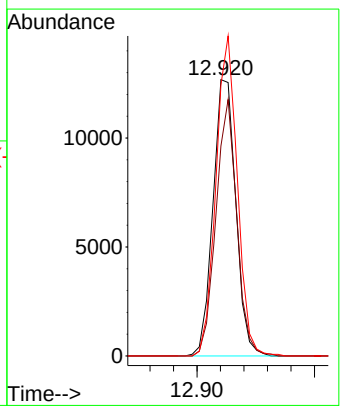
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

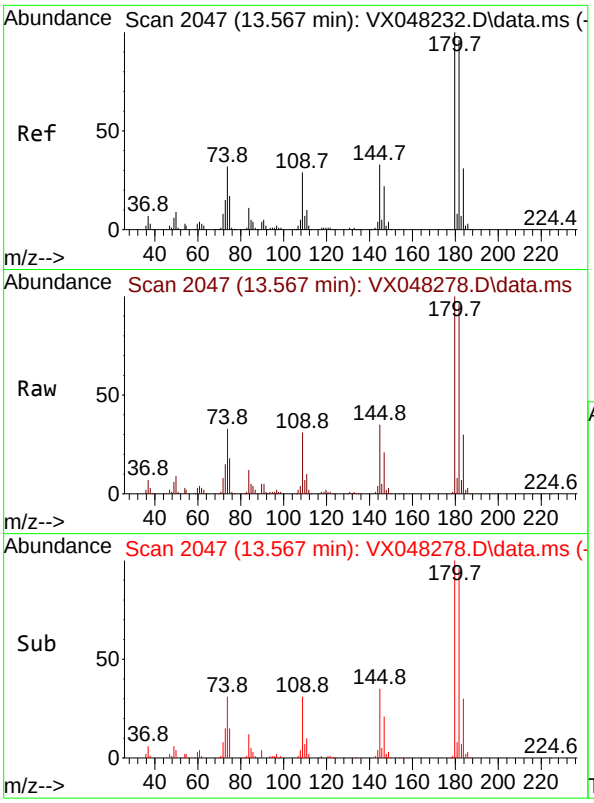


#92
1,2-Dibromo-3-Chloropropane
Concen: 40.930 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 75 Resp: 17092

Ion	Ratio	Lower	Upper
75	100		
155	85.0	42.8	128.4
157	108.8	54.2	162.6

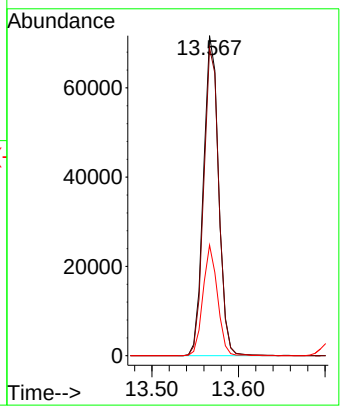




#93
1,2,4-Trichlorobenzene
Concen: 38.490 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:180 Resp: 8702

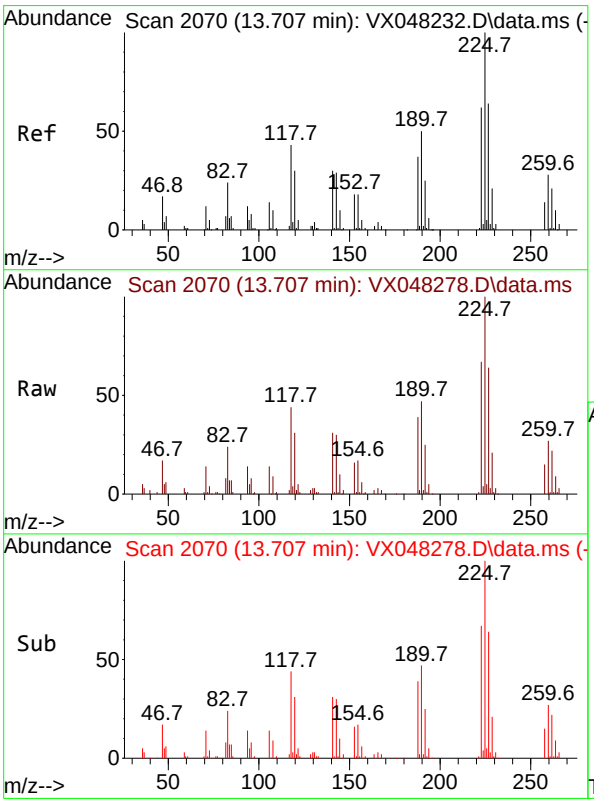
Ion	Ratio	Lower	Upper
180	100		
182	96.2	47.3	142.0
145	33.1	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

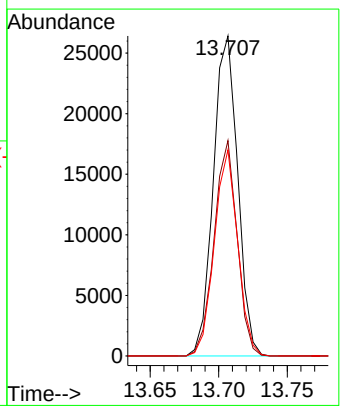
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

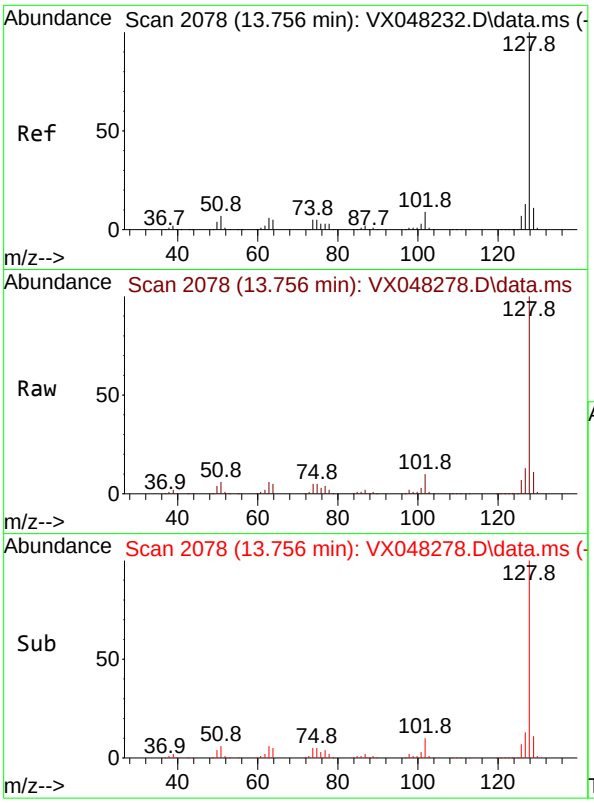


#94
Hexachlorobutadiene
Concen: 38.565 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:225 Resp: 32660

Ion	Ratio	Lower	Upper
225	100		
223	63.6	32.6	97.7
227	61.7	32.5	97.4

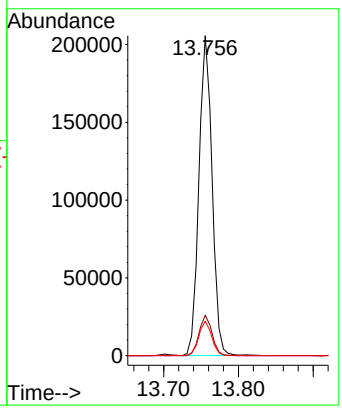




#95
Naphthalene
Concen: 41.822 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:128 Resp: 25051

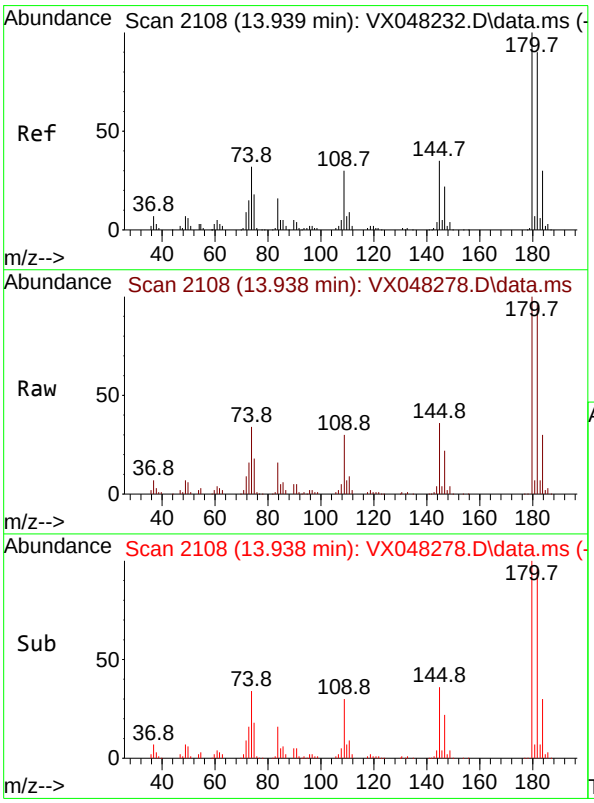
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.4
129	10.7	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

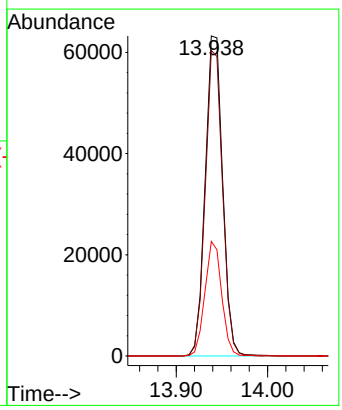
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025



#96
1,2,3-Trichlorobenzene
Concen: 40.246 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:180 Resp: 83499

Ion	Ratio	Lower	Upper
180	100		
182	94.9	46.6	139.7
145	34.5	16.9	50.7



Sample Results: **VX048278.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048278.D
Acq On : 21 Oct 2025 18:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 24 04:30:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	89	0.00
2	T	Dichlorodifluoromethane	0.514	0.469	8.8	86	0.00
3	P	Chloromethane	0.480	0.395	17.7	78	0.00
4	C	Vinyl Chloride	0.444	0.366	17.6#	78	0.00
5	T	Bromomethane	0.302	0.258	14.6	81	0.00
6	T	Chloroethane	0.261	0.231	11.5	83	0.00
7	T	Trichlorofluoromethane	0.852	0.801	6.0	88	0.00
8	T	Diethyl Ether	0.240	0.220	8.3	87	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.540	0.479	11.3	85	0.00
10	T	Methyl Iodide	0.678	0.698	-2.9	93	0.00
11	T	Tert butyl alcohol	0.070	0.057	18.6	81	0.00
12	CM	1,1-Dichloroethene	0.525	0.490	6.7#	89	0.00
13	T	Acrolein	0.071	0.076	-7.0	104	0.00
14	T	Allyl chloride	0.872	0.780	10.6	86	0.00
15	T	Acrylonitrile	0.251	0.232	7.6	86	0.00
16	T	Acetone	0.240	0.185	22.9	81	0.00
17	T	Carbon Disulfide	1.654	1.375	16.9	84	0.00
18	T	Methyl Acetate	0.502	0.451	10.2	86	0.00
19	T	Methyl tert-butyl Ether	1.791	1.749	2.3	91	0.00
20	T	Methylene Chloride	0.586	0.564	3.8	91	0.00
21	T	trans-1,2-Dichloroethene	0.577	0.537	6.9	89	0.00
22	T	Diisopropyl ether	1.738	1.663	4.3	89	0.00
23	T	Vinyl Acetate	1.389	1.347	3.0	88	0.00
24	P	1,1-Dichloroethane	1.051	0.987	6.1	89	0.00
25	T	2-Butanone	0.304	0.262	13.8	83	0.00
26	T	2,2-Dichloropropane	0.949	0.849	10.5	86	0.00
27	T	cis-1,2-Dichloroethene	0.673	0.652	3.1	92	0.00
28	T	Bromochloromethane	0.436	0.416	4.6	83	0.00
29	T	Tetrahydrofuran	0.182	0.159	12.6	83	0.00
30	C	Chloroform	1.123	1.104	1.7#	93	0.00
31	T	Cyclohexane	0.870	0.770	11.5	83	0.00
32	T	1,1,1-Trichloroethane	1.035	1.009	2.5	92	0.00
33	S	1,2-Dichloroethane-d4	0.701	0.787	-12.3	102	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
35	S	Dibromofluoromethane	0.341	0.360	-5.6	99	0.00
36	T	1,1-Dichloropropene	0.485	0.440	9.3	92	0.00
37	T	Ethyl Acetate	0.402	0.345	14.2	85	0.00
38	T	Carbon Tetrachloride	0.599	0.547	8.7	90	0.00
39	T	Methylcyclohexane	0.573	0.489	14.7	82	0.00
40	TM	Benzene	1.409	1.285	8.8	90	0.00
41	T	Methacrylonitrile	0.211	0.194	8.1	86	0.00
42	TM	1,2-Dichloroethane	0.520	0.519	0.2	94	0.00
43	T	Isopropyl Acetate	0.661	0.599	9.4	86	0.00
44	TM	Trichloroethene	0.372	0.348	6.5	91	0.00
45	C	1,2-Dichloropropane	0.335	0.311	7.2#	88	0.00
46	T	Dibromomethane	0.261	0.246	5.7	90	0.00
47	T	Bromodichloromethane	0.563	0.545	3.2	92	0.00
48	T	Methyl methacrylate	0.333	0.308	7.5	87	0.00

Sample Results: **VX048278.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048278.D
Acq On : 21 Oct 2025 18:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 24 04:30:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	0.004	0.004	0.0	81	0.00
50	S	Toluene-d8	1.196	1.238	-3.5	95	0.00
51	T	4-Methyl-2-Pentanone	0.381	0.346	9.2	83	0.00
52	CM	Toluene	0.895	0.860	3.9#	91	0.00
53	T	t-1,3-Dichloropropene	0.543	0.540	0.6	90	0.00
54	T	cis-1,3-Dichloropropene	0.586	0.561	4.3	89	0.00
55	T	1,1,2-Trichloroethane	0.333	0.324	2.7	92	0.00
56	T	Ethyl methacrylate	0.487	0.477	2.1	88	0.00
57	T	1,3-Dichloropropane	0.568	0.560	1.4	93	0.00
58	T	2-Chloroethyl Vinyl ether	0.232	0.252	-8.6	88	0.00
59	T	2-Hexanone	0.266	0.244	8.3	83	0.00
60	T	Dibromochloromethane	0.447	0.441	1.3	94	0.00
61	T	1,2-Dibromoethane	0.355	0.344	3.1	91	0.00
62	S	4-Bromofluorobenzene	0.455	0.547	-20.2	112	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	96	0.00
64	T	Tetrachloroethene	0.373	0.316	15.3	93	0.00
65	PM	Chlorobenzene	1.125	1.027	8.7	95	0.00
66	T	1,1,1,2-Tetrachloroethane	0.413	0.378	8.5	93	0.00
67	C	Ethyl Benzene	1.915	1.736	9.3#	92	0.00
68	T	m/p-Xylenes	0.712	0.662	7.0	93	0.00
69	T	o-Xylene	0.687	0.645	6.1	94	0.00
70	T	Styrene	1.170	1.126	3.8	95	0.00
71	P	Bromoform	0.330	0.304	7.9	95	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	111	0.00
73	T	Isopropylbenzene	3.652	3.018	17.4	98	0.00
74	T	N-amyl acetate	1.295	1.043	19.5	93	0.00
75	P	1,1,2,2-Tetrachloroethane	0.997	0.843	15.4	99	0.00
76	T	1,2,3-Trichloropropane	0.811	0.771	4.9	117	0.00
77	T	Bromobenzene	0.916	0.781	14.7	101	0.00
78	T	n-propylbenzene	4.228	3.547	16.1	98	0.00
79	T	2-Chlorotoluene	2.564	2.138	16.6	99	0.00
80	T	1,3,5-Trimethylbenzene	3.022	2.561	15.3	100	0.00
81	T	trans-1,4-Dichloro-2-butene	0.333	0.268	19.5	94	0.00
82	T	4-Chlorotoluene	3.043	2.572	15.5	99	0.00
83	T	tert-Butylbenzene	3.105	2.615	15.8	100	0.00
84	T	1,2,4-Trimethylbenzene	3.016	2.568	14.9	100	0.00
85	T	sec-Butylbenzene	3.736	3.053	18.3	98	0.00
86	T	p-Isopropyltoluene	3.229	2.643	18.1	98	0.00
87	T	1,3-Dichlorobenzene	1.726	1.412	18.2	101	0.00
88	T	1,4-Dichlorobenzene	1.788	1.440	19.5	102	0.00
89	T	n-Butylbenzene	2.939	2.298	21.8	97	0.00
90	T	Hexachloroethane	0.638	0.487	23.7	95	0.00
91	T	1,2-Dichlorobenzene	1.621	1.364	15.9	102	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.202	0.166	17.8	95	0.00
93	T	1,2,4-Trichlorobenzene	1.096	0.844	23.0	98	0.00
94	T	Hexachlorobutadiene	0.507	0.317	37.5#	94	0.00
95	T	Naphthalene	2.904	2.429	16.4	97	0.00

Sample Results: **VX048278.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048278.D
Acq On : 21 Oct 2025 18:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 24 04:30:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	0.810	19.5	99	0.00

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

Sample Results: **VX048278.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048278.D
Acq On : 21 Oct 2025 18:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 24 04:30:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	89	0.00
2	T	Dichlorodifluoromethane	50.000	45.636	8.7	86	0.00
3	P	Chloromethane	50.000	41.125	17.8	78	0.00
4	C	Vinyl Chloride	50.000	41.217	17.6#	78	0.00
5	T	Bromomethane	50.000	42.818	14.4	81	0.00
6	T	Chloroethane	50.000	44.175	11.7	83	0.00
7	T	Trichlorofluoromethane	50.000	46.992	6.0	88	0.00
8	T	Diethyl Ether	50.000	45.877	8.2	87	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	44.374	11.3	85	0.00
10	T	Methyl Iodide	50.000	51.416	-2.8	93	0.00
11	T	Tert butyl alcohol	250.000	204.253	18.3	81	0.00
12	CM	1,1-Dichloroethene	50.000	46.632	6.7#	89	0.00
13	T	Acrolein	250.000	269.101	-7.6	104	0.00
14	T	Allyl chloride	50.000	44.749	10.5	86	0.00
15	T	Acrylonitrile	250.000	230.910	7.6	86	0.00
16	T	Acetone	250.000	191.905	23.2	81	0.00
17	T	Carbon Disulfide	50.000	41.561	16.9	84	0.00
18	T	Methyl Acetate	50.000	44.941	10.1	86	0.00
19	T	Methyl tert-butyl Ether	50.000	48.837	2.3	91	0.00
20	T	Methylene Chloride	50.000	48.124	3.8	91	0.00
21	T	trans-1,2-Dichloroethene	50.000	46.571	6.9	89	0.00
22	T	Diisopropyl ether	50.000	47.827	4.3	89	0.00
23	T	Vinyl Acetate	250.000	242.501	3.0	88	0.00
24	P	1,1-Dichloroethane	50.000	46.973	6.1	89	0.00
25	T	2-Butanone	250.000	215.374	13.9	83	0.00
26	T	2,2-Dichloropropane	50.000	44.766	10.5	86	0.00
27	T	cis-1,2-Dichloroethene	50.000	48.458	3.1	92	0.00
28	T	Bromochloromethane	50.000	47.680	4.6	83	0.00
29	T	Tetrahydrofuran	250.000	218.490	12.6	83	0.00
30	C	Chloroform	50.000	49.137	1.7#	93	0.00
31	T	Cyclohexane	50.000	44.238	11.5	83	0.00
32	T	1,1,1-Trichloroethane	50.000	48.747	2.5	92	0.00
33	S	1,2-Dichloroethane-d4	50.000	56.153	-12.3	102	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	91	0.00
35	S	Dibromofluoromethane	50.000	52.800	-5.6	99	0.00
36	T	1,1-Dichloropropene	50.000	45.371	9.3	92	0.00
37	T	Ethyl Acetate	50.000	42.851	14.3	85	0.00
38	T	Carbon Tetrachloride	50.000	45.671	8.7	90	0.00
39	T	Methylcyclohexane	50.000	42.670	14.7	82	0.00
40	TM	Benzene	50.000	45.621	8.8	90	0.00
41	T	Methacrylonitrile	50.000	45.945	8.1	86	0.00
42	TM	1,2-Dichloroethane	50.000	49.906	0.2	94	0.00
43	T	Isopropyl Acetate	50.000	45.374	9.3	86	0.00
44	TM	Trichloroethene	50.000	46.735	6.5	91	0.00
45	C	1,2-Dichloropropane	50.000	46.474	7.1#	88	0.00
46	T	Dibromomethane	50.000	47.155	5.7	90	0.00
47	T	Bromodichloromethane	50.000	48.404	3.2	92	0.00
48	T	Methyl methacrylate	50.000	46.243	7.5	87	0.00

Sample Results: **VX048278.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048278.D
Acq On : 21 Oct 2025 18:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 24 04:30:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	901.119	9.9	81	0.00
50	S	Toluene-d8	50.000	51.716	-3.4	95	0.00
51	T	4-Methyl-2-Pentanone	250.000	227.242	9.1	83	0.00
52	CM	Toluene	50.000	48.031	3.9#	91	0.00
53	T	t-1,3-Dichloropropene	50.000	49.703	0.6	90	0.00
54	T	cis-1,3-Dichloropropene	50.000	47.929	4.1	89	0.00
55	T	1,1,2-Trichloroethane	50.000	48.711	2.6	92	0.00
56	T	Ethyl methacrylate	50.000	49.025	2.0	88	0.00
57	T	1,3-Dichloropropane	50.000	49.295	1.4	93	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	240.651	3.7	88	0.00
59	T	2-Hexanone	250.000	229.287	8.3	83	0.00
60	T	Dibromochloromethane	50.000	49.293	1.4	94	0.00
61	T	1,2-Dibromoethane	50.000	48.532	2.9	91	0.00
62	S	4-Bromofluorobenzene	50.000	60.121	-20.2	112	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	96	0.00
64	T	Tetrachloroethene	50.000	42.374	15.3	93	0.00
65	PM	Chlorobenzene	50.000	45.637	8.7	95	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	45.726	8.5	93	0.00
67	C	Ethyl Benzene	50.000	45.338	9.3#	92	0.00
68	T	m/p-Xylenes	100.000	93.046	7.0	93	0.00
69	T	o-Xylene	50.000	46.976	6.0	94	0.00
70	T	Styrene	50.000	48.144	3.7	95	0.00
71	P	Bromoform	50.000	46.009	8.0	95	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	111	0.00
73	T	Isopropylbenzene	50.000	41.323	17.4	98	0.00
74	T	N-amyl acetate	50.000	40.243	19.5	93	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	42.247	15.5	99	0.00
76	T	1,2,3-Trichloropropane	50.000	47.529	4.9	117	0.00
77	T	Bromobenzene	50.000	42.643	14.7	101	0.00
78	T	n-propylbenzene	50.000	41.944	16.1	98	0.00
79	T	2-Chlorotoluene	50.000	41.700	16.6	99	0.00
80	T	1,3,5-Trimethylbenzene	50.000	42.365	15.3	100	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	40.195	19.6	94	0.00
82	T	4-Chlorotoluene	50.000	42.258	15.5	99	0.00
83	T	tert-Butylbenzene	50.000	42.107	15.8	100	0.00
84	T	1,2,4-Trimethylbenzene	50.000	42.577	14.8	100	0.00
85	T	sec-Butylbenzene	50.000	40.863	18.3	98	0.00
86	T	p-Isopropyltoluene	50.000	40.931	18.1	98	0.00
87	T	1,3-Dichlorobenzene	50.000	40.908	18.2	101	0.00
88	T	1,4-Dichlorobenzene	50.000	40.270	19.5	102	0.00
89	T	n-Butylbenzene	50.000	39.088	21.8	97	0.00
90	T	Hexachloroethane	50.000	38.153	23.7	95	0.00
91	T	1,2-Dichlorobenzene	50.000	42.066	15.9	102	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	40.930	18.1	95	0.00
93	T	1,2,4-Trichlorobenzene	50.000	38.490	23.0	98	0.00
94	T	Hexachlorobutadiene	50.000	38.565	22.9	94	0.00
95	T	Naphthalene	50.000	41.822	16.4	97	0.00

Sample Results: **VX048278.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048278.D
Acq On : 21 Oct 2025 18:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 24 04:30:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	40.246	19.5	99	0.00

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

QC SAMPLE DATA

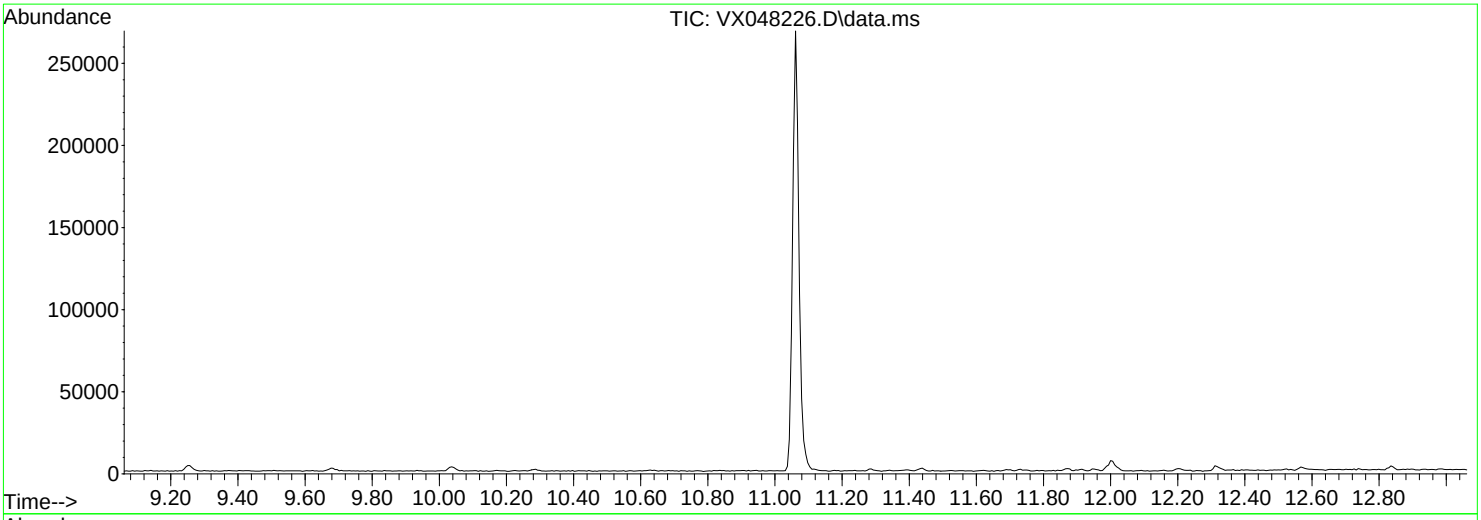
Sample Results: **VX048226.D**

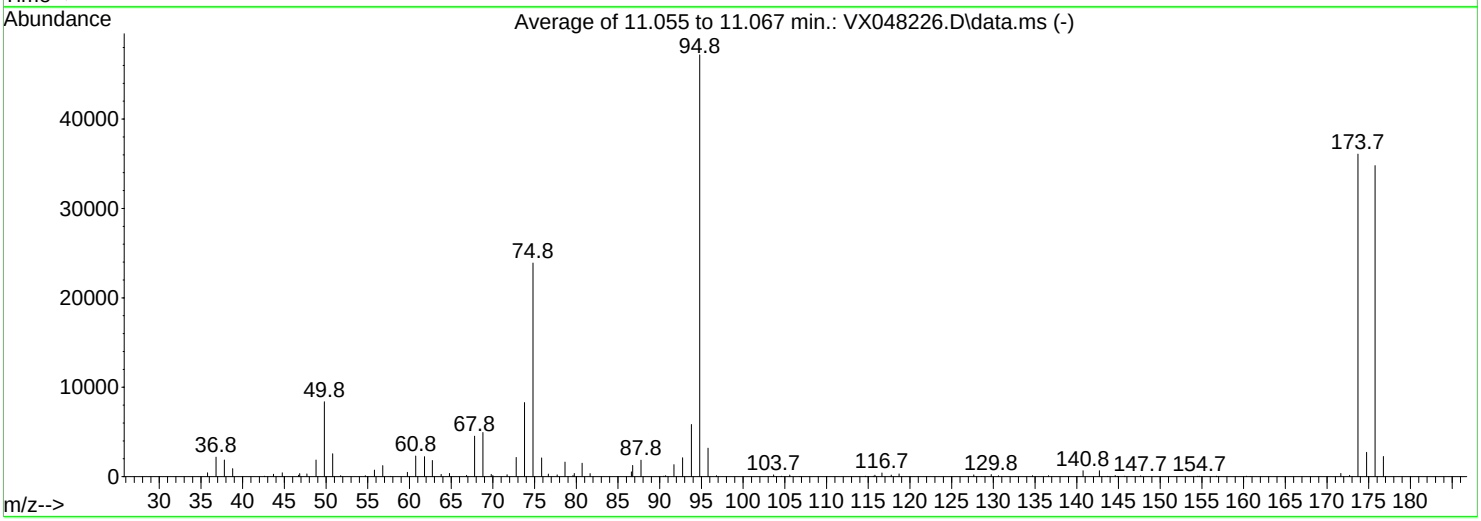
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048226.D
Acq On : 20 Oct 2025 08:15
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Title : SW846 8260
Last Update : Mon Oct 20 14:13:59 2025





AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1629

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.7	8374	PASS
75	95	30	60	50.7	23901	PASS
95	95	100	100	100.0	47184	PASS
96	95	5	9	6.8	3185	PASS
173	174	0.00	2	0.4	138	PASS
174	95	50	100	76.5	36091	PASS
175	174	5	9	7.5	2719	PASS
176	174	95	101	96.4	34800	PASS
177	176	5	9	6.5	2253	PASS

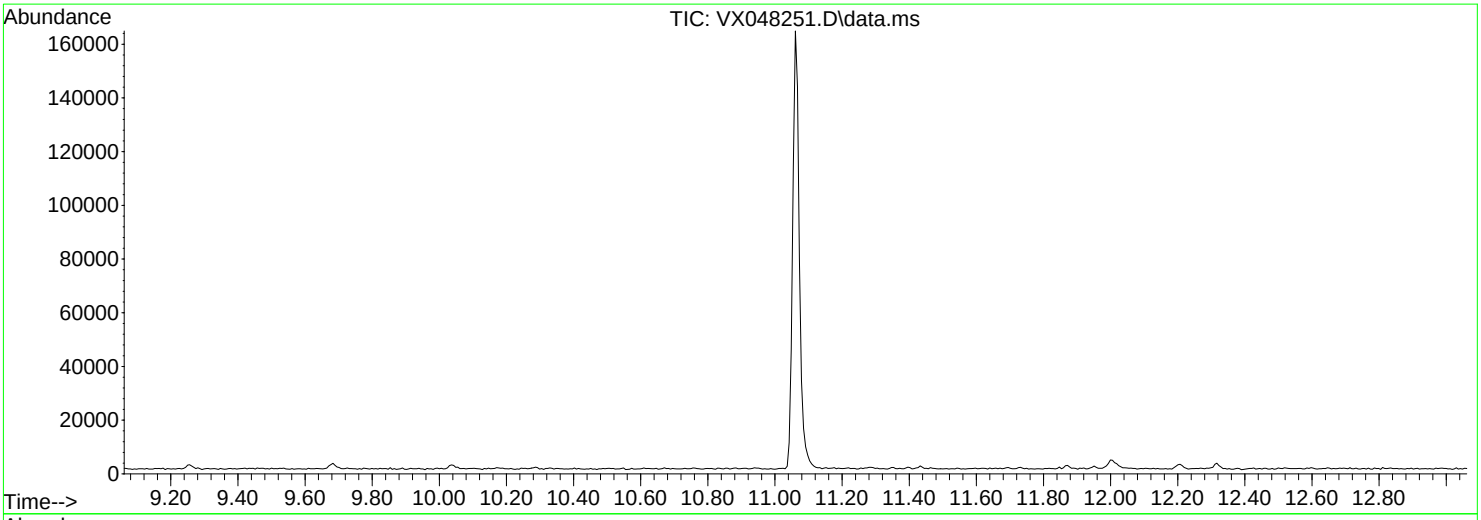
Sample Results: **VX048251.D**

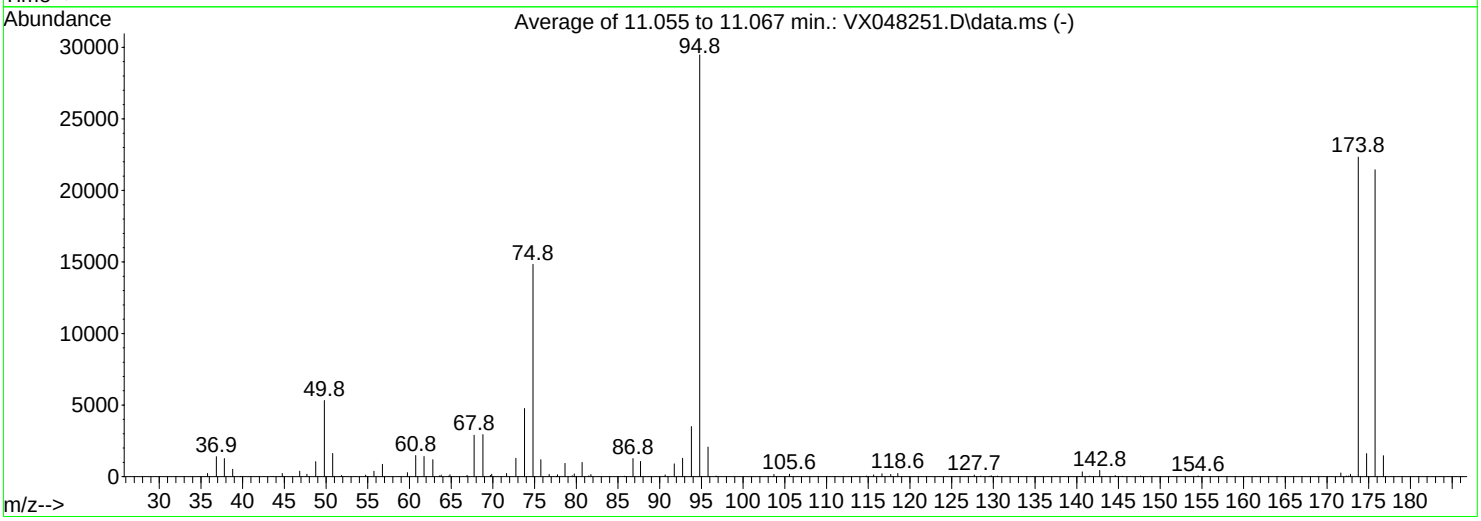
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048251.D
Acq On : 21 Oct 2025 08:12
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Title : SW846 8260
Last Update : Mon Oct 20 14:13:59 2025





AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1629

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.0	5318	PASS
75	95	30	60	50.3	14833	PASS
95	95	100	100	100.0	29475	PASS
96	95	5	9	7.0	2071	PASS
173	174	0.00	2	0.7	166	PASS
174	95	50	100	75.8	22330	PASS
175	174	5	9	7.2	1615	PASS
176	174	95	101	96.1	21451	PASS
177	176	5	9	6.8	1462	PASS

Raw Data: **VX048239.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX1020WBL01	SDG No.:	Q3371
Lab Sample ID:	VX1020WBL01	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS										
75-71-8	Dichlorodifluoromethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/20/25 15:23	VX102025
74-87-3	Chloromethane	0.50	U	1	0.32	0.50	1.00	ug/L	10/20/25 15:23	VX102025
75-01-4	Vinyl Chloride	0.75	U	1	0.26	0.75	1.00	ug/L	10/20/25 15:23	VX102025
74-83-9	Bromomethane	3.80	U	1	1.40	3.80	5.00	ug/L	10/20/25 15:23	VX102025
75-00-3	Chloroethane	0.75	U	1	0.47	0.75	1.00	ug/L	10/20/25 15:23	VX102025
75-69-4	Trichlorofluoromethane	0.50	U	1	0.33	0.50	1.00	ug/L	10/20/25 15:23	VX102025
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	1	0.25	0.50	1.00	ug/L	10/20/25 15:23	VX102025
75-35-4	1,1-Dichloroethene	0.75	U	1	0.23	0.75	1.00	ug/L	10/20/25 15:23	VX102025
67-64-1	Acetone	3.80	U	1	1.50	3.80	5.00	ug/L	10/20/25 15:23	VX102025
75-15-0	Carbon Disulfide	0.75	U	1	0.21	0.75	1.00	ug/L	10/20/25 15:23	VX102025
1634-04-4	Methyl tert-butyl Ether	0.50	U	1	0.16	0.50	1.00	ug/L	10/20/25 15:23	VX102025
79-20-9	Methyl Acetate	0.75	U	1	0.27	0.75	1.00	ug/L	10/20/25 15:23	VX102025
75-09-2	Methylene Chloride	0.50	U	1	0.28	0.50	1.00	ug/L	10/20/25 15:23	VX102025
156-60-5	trans-1,2-Dichloroethene	0.50	U	1	0.23	0.50	1.00	ug/L	10/20/25 15:23	VX102025
75-34-3	1,1-Dichloroethane	0.50	U	1	0.23	0.50	1.00	ug/L	10/20/25 15:23	VX102025
110-82-7	Cyclohexane	2.50	U	1	1.50	2.50	5.00	ug/L	10/20/25 15:23	VX102025
78-93-3	2-Butanone	2.50	U	1	0.98	2.50	5.00	ug/L	10/20/25 15:23	VX102025
56-23-5	Carbon Tetrachloride	0.50	U	1	0.25	0.50	1.00	ug/L	10/20/25 15:23	VX102025
156-59-2	cis-1,2-Dichloroethene	0.75	U	1	0.19	0.75	1.00	ug/L	10/20/25 15:23	VX102025
74-97-5	Bromochloromethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/20/25 15:23	VX102025
67-66-3	Chloroform	0.50	U	1	0.25	0.50	1.00	ug/L	10/20/25 15:23	VX102025
71-55-6	1,1,1-Trichloroethane	0.50	U	1	0.20	0.50	1.00	ug/L	10/20/25 15:23	VX102025
108-87-2	Methylcyclohexane	0.50	U	1	0.16	0.50	1.00	ug/L	10/20/25 15:23	VX102025
71-43-2	Benzene	0.50	U	1	0.15	0.50	1.00	ug/L	10/20/25 15:23	VX102025
107-06-2	1,2-Dichloroethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/20/25 15:23	VX102025
79-01-6	Trichloroethene	0.75	U	1	0.090	0.75	1.00	ug/L	10/20/25 15:23	VX102025
78-87-5	1,2-Dichloropropane	0.50	U	1	0.20	0.50	1.00	ug/L	10/20/25 15:23	VX102025
75-27-4	Bromodichloromethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/20/25 15:23	VX102025
108-10-1	4-Methyl-2-Pentanone	2.50	U	1	0.68	2.50	5.00	ug/L	10/20/25 15:23	VX102025
108-88-3	Toluene	0.50	U	1	0.14	0.50	1.00	ug/L	10/20/25 15:23	VX102025
10061-02-6	t-1,3-Dichloropropene	0.50	U	1	0.17	0.50	1.00	ug/L	10/20/25 15:23	VX102025
10061-01-5	cis-1,3-Dichloropropene	0.50	U	1	0.16	0.50	1.00	ug/L	10/20/25 15:23	VX102025
79-00-5	1,1,2-Trichloroethane	0.50	U	1	0.21	0.50	1.00	ug/L	10/20/25 15:23	VX102025
591-78-6	2-Hexanone	2.50	U	1	0.89	2.50	5.00	ug/L	10/20/25 15:23	VX102025
124-48-1	Dibromochloromethane	0.50	U	1	0.18	0.50	1.00	ug/L	10/20/25 15:23	VX102025
106-93-4	1,2-Dibromoethane	0.50	U	1	0.15	0.50	1.00	ug/L	10/20/25 15:23	VX102025
127-18-4	Tetrachloroethene	0.50	U	1	0.23	0.50	1.00	ug/L	10/20/25 15:23	VX102025
108-90-7	Chlorobenzene	0.50	U	1	0.12	0.50	1.00	ug/L	10/20/25 15:23	VX102025
100-41-4	Ethyl Benzene	0.50	U	1	0.13	0.50	1.00	ug/L	10/20/25 15:23	VX102025
179601-23-1	m/p-Xylenes	1.00	U	1	0.24	1.00	2.00	ug/L	10/20/25 15:23	VX102025
95-47-6	o-Xylene	0.50	U	1	0.12	0.50	1.00	ug/L	10/20/25 15:23	VX102025
100-42-5	Styrene	0.50	U	1	0.15	0.50	1.00	ug/L	10/20/25 15:23	VX102025
75-25-2	Bromoform	0.50	U	1	0.19	0.50	1.00	ug/L	10/20/25 15:23	VX102025

Raw Data: **VX048239.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX1020WBL01	SDG No.:	Q3371
Lab Sample ID:	VX1020WBL01	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.50	U	1	0.12	0.50	1.00	ug/L	10/20/25 15:23	VX102025
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	1	0.26	0.50	1.00	ug/L	10/20/25 15:23	VX102025
541-73-1	1,3-Dichlorobenzene	0.50	U	1	0.16	0.50	1.00	ug/L	10/20/25 15:23	VX102025
106-46-7	1,4-Dichlorobenzene	0.50	U	1	0.19	0.50	1.00	ug/L	10/20/25 15:23	VX102025
95-50-1	1,2-Dichlorobenzene	0.50	U	1	0.16	0.50	1.00	ug/L	10/20/25 15:23	VX102025
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	1	0.53	0.75	1.00	ug/L	10/20/25 15:23	VX102025
120-82-1	1,2,4-Trichlorobenzene	0.50	U	1	0.20	0.50	1.00	ug/L	10/20/25 15:23	VX102025
87-61-6	1,2,3-Trichlorobenzene	0.75	U	1	0.20	0.75	1.00	ug/L	10/20/25 15:23	VX102025
SURROGATES										
17060-07-0	1,2-Dichloroethane-d4	56.9			81 - 118		114%	SPK: 50		
1868-53-7	Dibromofluoromethane	53.0			80 - 119		106%	SPK: 50		
2037-26-5	Toluene-d8	51.2			89 - 112		102%	SPK: 50		
460-00-4	4-Bromofluorobenzene	52.1			85 - 114		104%	SPK: 50		
INTERNAL STANDARDS		**Area Count**								
363-72-4	Pentafluorobenzene	128000								
540-36-3	1,4-Difluorobenzene	221000								
3114-55-4	Chlorobenzene-d5	204000								
3855-82-1	1,4-Dichlorobenzene-d4	107000								

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\VX102025\
Data File : VX048239.D
Acq On : 20 Oct 2025 15:23
Operator : JC/MD
Sample : VX1020WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBL01

Quant Time: Oct 20 15:45:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	127705	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	221220	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	203730	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	106522	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	101917	56.921	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 113.840%			
35) Dibromofluoromethane	5.367	113	80059	53.010	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.020%			
50) Toluene-d8	8.629	98	271212	51.234	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 102.460%			
62) 4-Bromofluorobenzene	11.061	95	104865	52.072	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.140%			

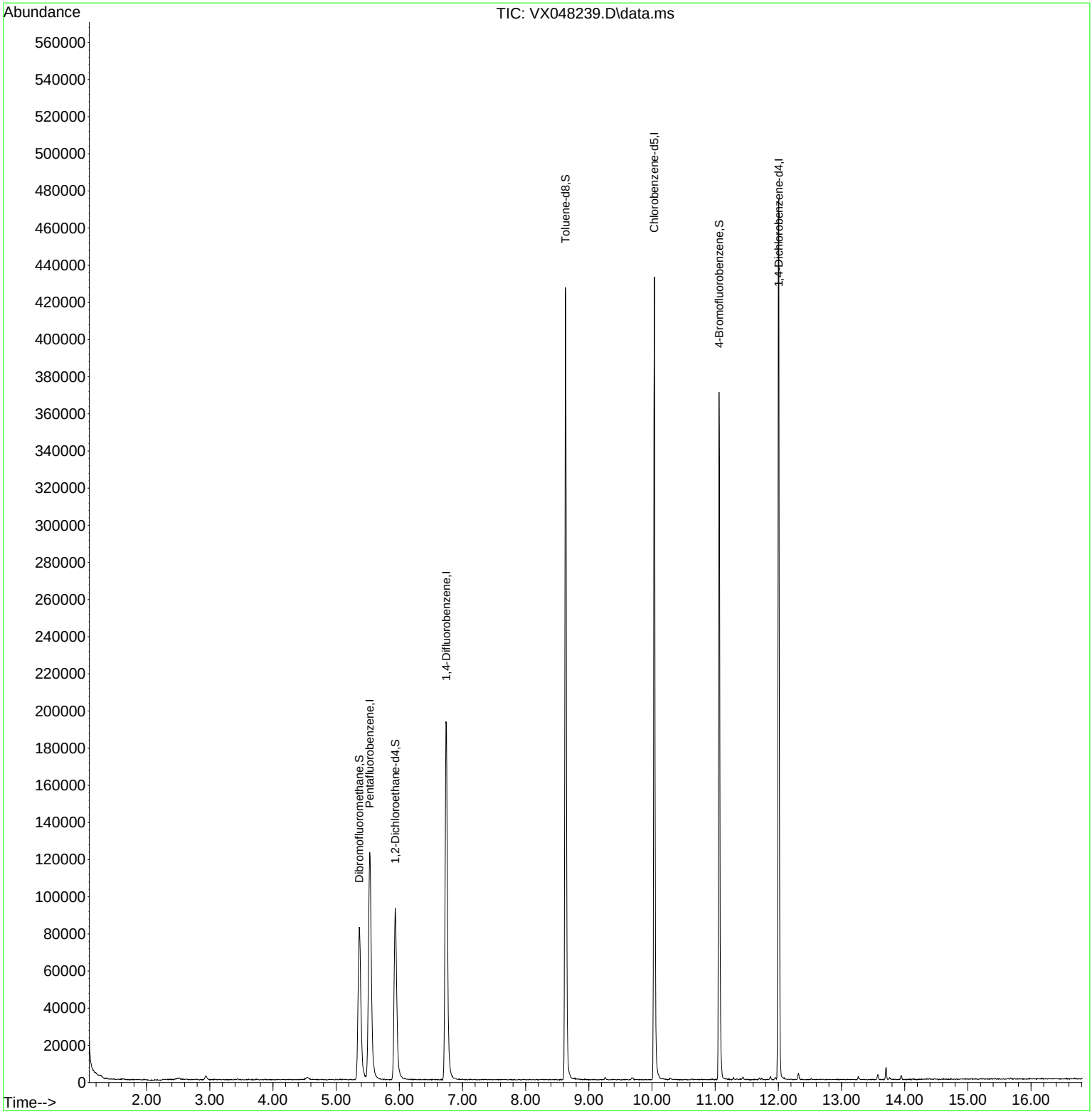
Target Compounds Qvalue

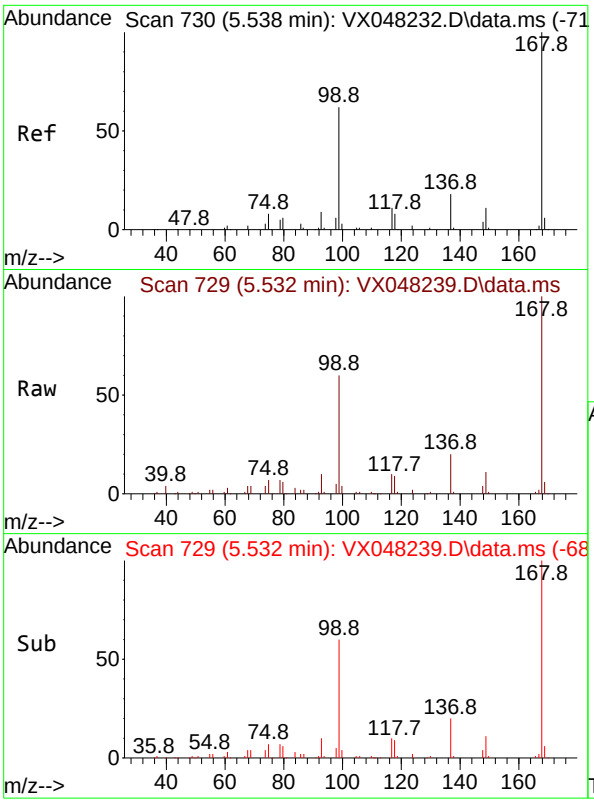
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048239.D
Acq On : 20 Oct 2025 15:23
Operator : JC/MD
Sample : VX1020WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBL01

Quant Time: Oct 20 15:45:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration



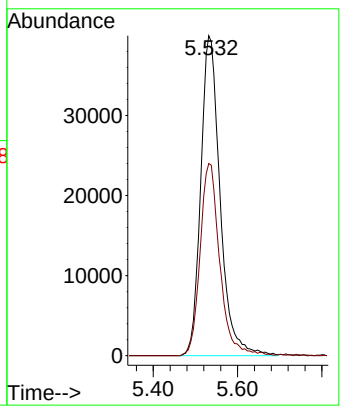


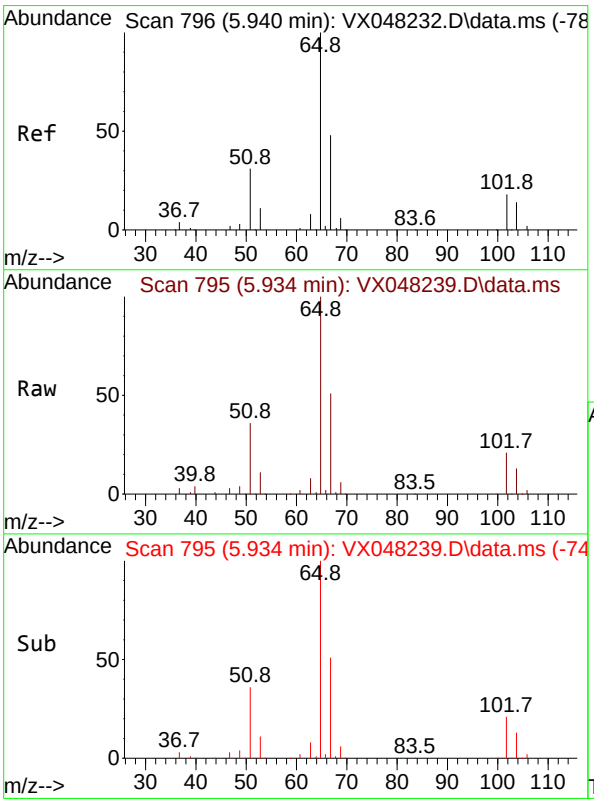
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX048239.D
Acq: 20 Oct 2025 15:23

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBL01

Tgt Ion:168 Resp: 127705

Ion	Ratio	Lower	Upper
168	100		
99	60.0	46.4	69.6

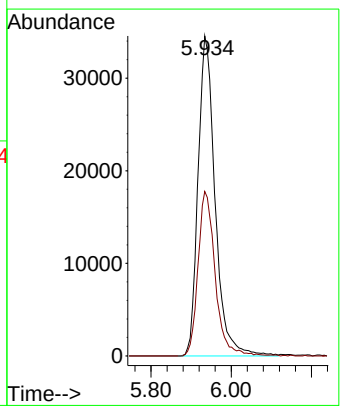


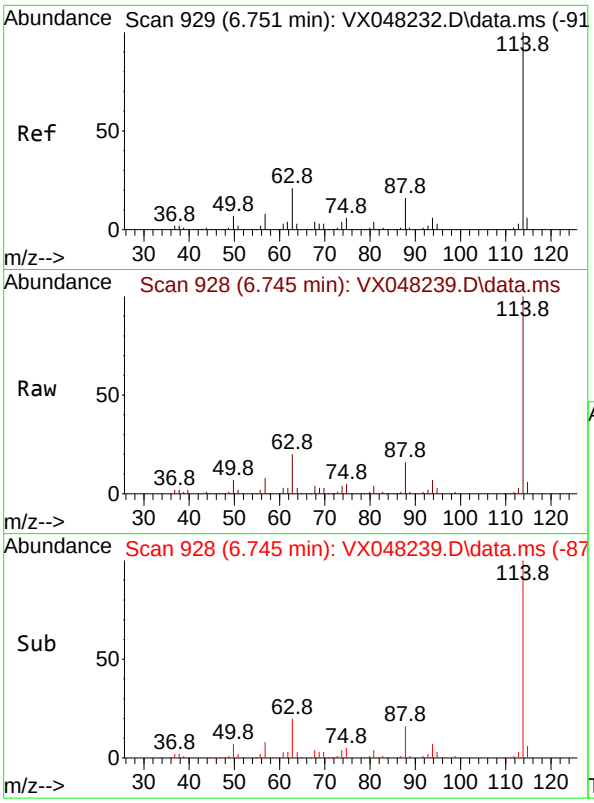


#33
1,2-Dichloroethane-d4
Concen: 56.921 ug/l
RT: 5.934 min Scan# 795
Delta R.T. -0.006 min
Lab File: VX048239.D
Acq: 20 Oct 2025 15:23

Tgt Ion: 65 Resp: 101917

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	105.0



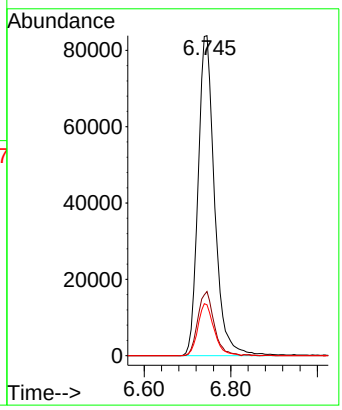


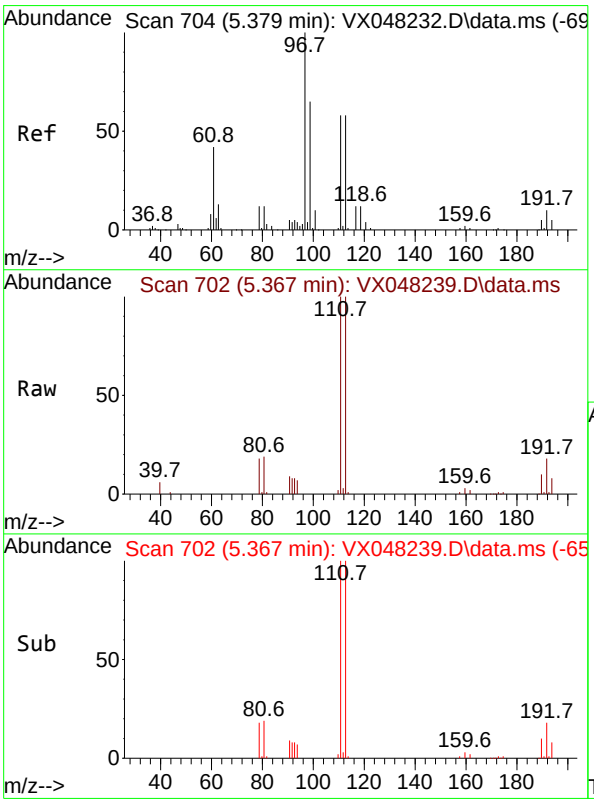
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX048239.D
Acq: 20 Oct 2025 15:23

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBL01

Tgt Ion:114 Resp: 221220

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	43.2
88	15.9	0.0	33.6

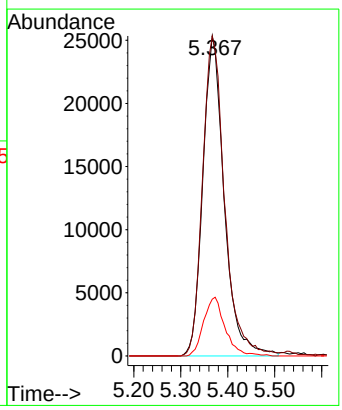


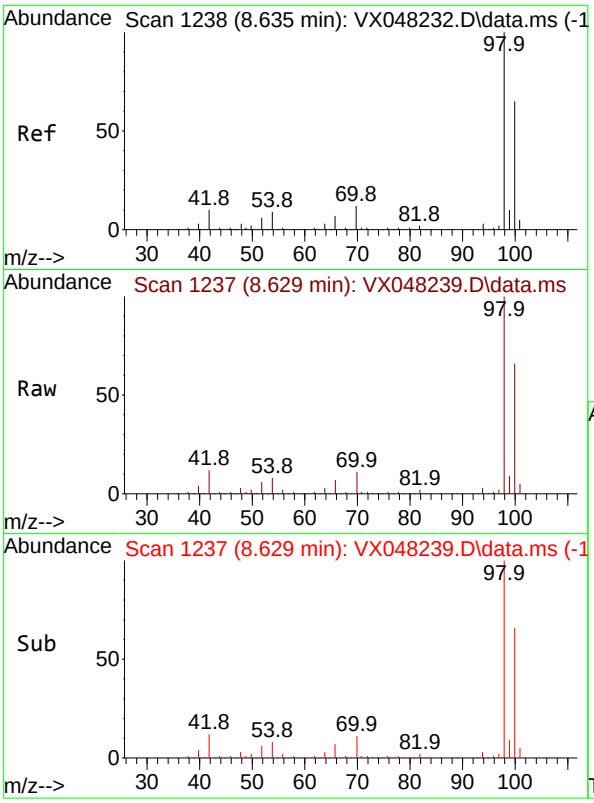


#35
Dibromofluoromethane
Concen: 53.010 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX048239.D
Acq: 20 Oct 2025 15:23

Tgt Ion:113 Resp: 80059

Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.2	123.4
192	18.5	15.1	22.7



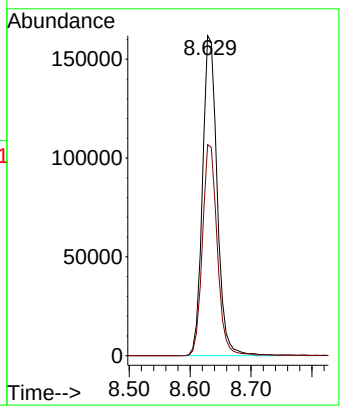


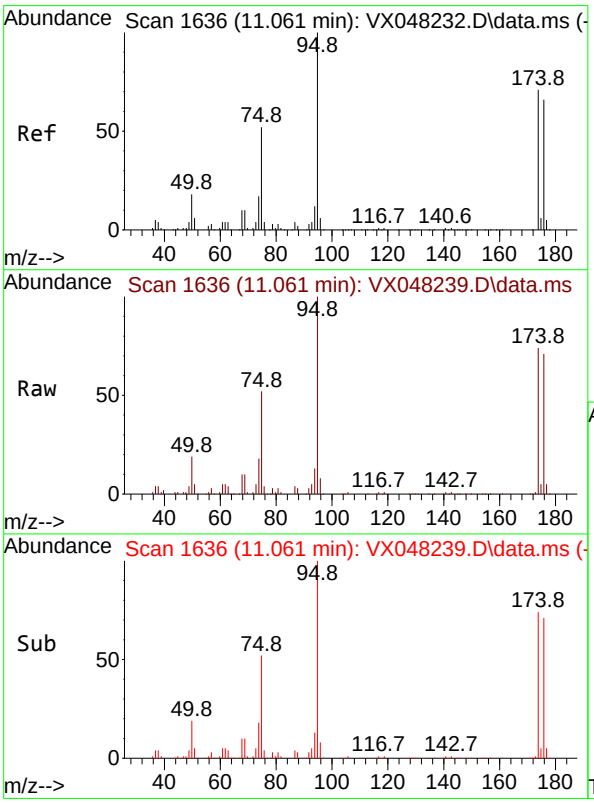
#50
Toluene-d8
Concen: 51.234 ug/l
RT: 8.629 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048239.D
Acq: 20 Oct 2025 15:23

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBL01

Tgt Ion: 98 Resp: 271212

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.0	79.4

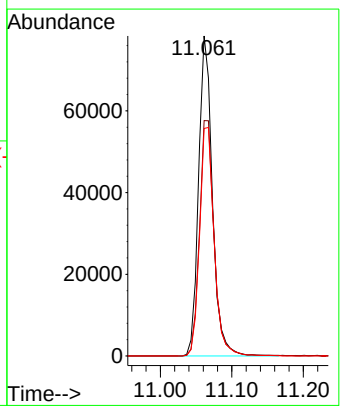


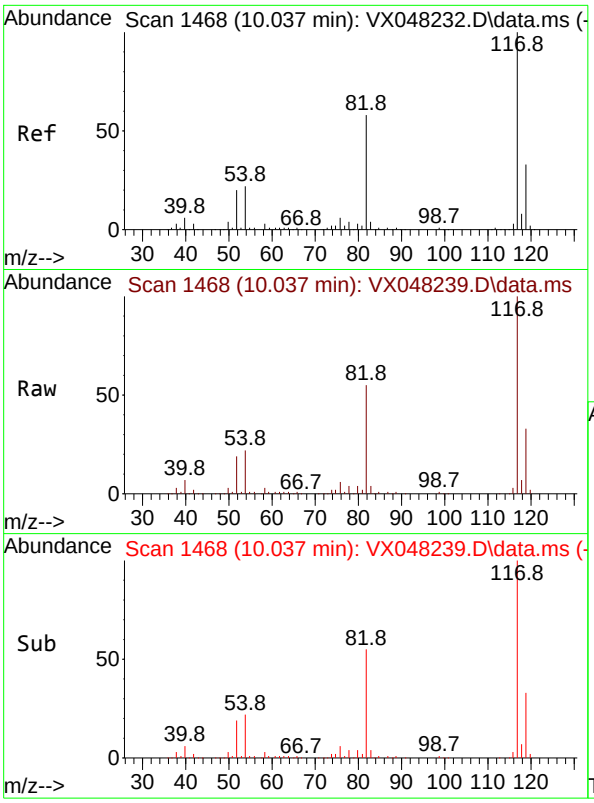


#62
4-Bromofluorobenzene
Concen: 52.072 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX048239.D
Acq: 20 Oct 2025 15:23

Tgt Ion: 95 Resp: 104865

Ion	Ratio	Lower	Upper
95	100		
174	78.0	0.0	147.8
176	75.6	0.0	142.8



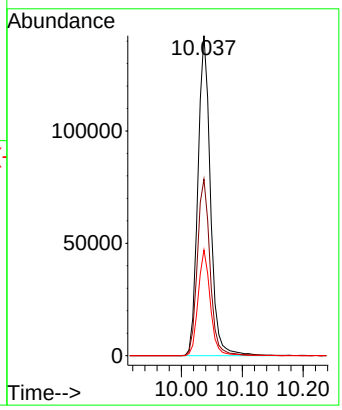


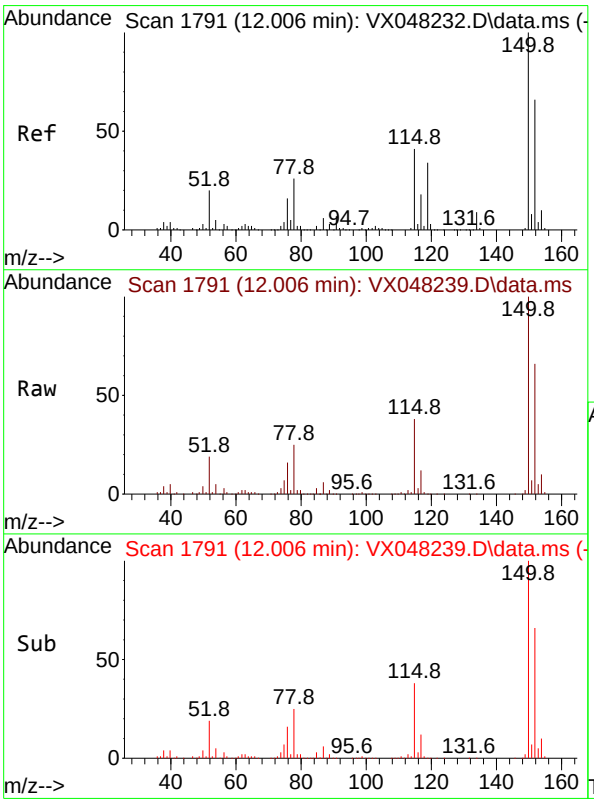
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048239.D
Acq: 20 Oct 2025 15:23

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBL01

Tgt Ion:117 Resp: 203730

Ion	Ratio	Lower	Upper
117	100		
82	55.1	46.5	69.7
119	33.0	25.9	38.9

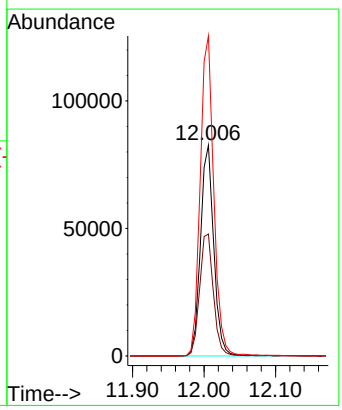




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX048239.D
Acq: 20 Oct 2025 15:23

Tgt Ion:152 Resp: 106522

Ion	Ratio	Lower	Upper
152	100		
115	60.0	43.1	129.4
150	154.7	0.0	353.0



Sample Results: **VX048239.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048239.D
Acq On : 20 Oct 2025 15:23
Operator : JC/MD
Sample : VX1020WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBL01

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\82X102025W.M
Title : SW846 8260

Signal : TIC: VX048239.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.367	691	702	719	rBV	82300	259917	36.30%	6.659%
2	5.532	719	729	755	rVB	122205	384446	53.70%	9.850%
3	5.934	785	795	815	rBV	92633	269396	37.63%	6.902%
4	6.739	918	927	946	rBV	193003	509752	71.20%	13.061%
5	8.629	1231	1237	1255	rBV	426466	715956	100.00%	18.344%
6	10.037	1462	1468	1488	rBV	432226	621182	86.76%	15.916%
7	11.061	1631	1636	1652	rBV	370134	499549	69.77%	12.799%
8	12.006	1785	1791	1804	rBV	473949	635254	88.73%	16.276%
9	13.701	2066	2069	2073	rBV3	6306	7548	1.05%	0.193%

Sum of corrected areas: 3903000

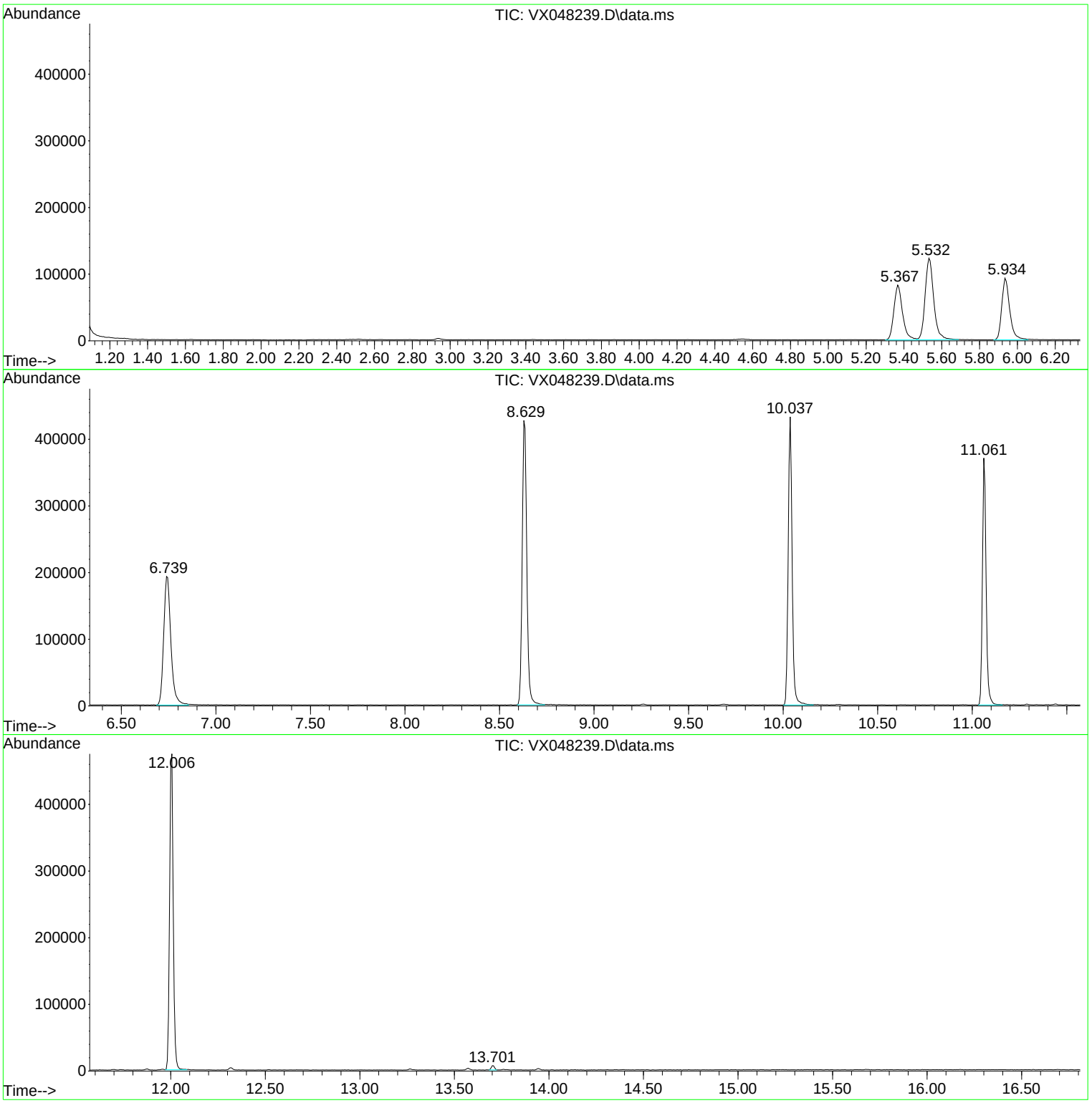
Sample Results: **VX048239.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048239.D
Acq On : 20 Oct 2025 15:23
Operator : JC/MD
Sample : VX1020WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VX048239.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048239.D
Acq On : 20 Oct 2025 15:23
Operator : JC/MD
Sample : VX1020WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.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\VX102025\
Data File : VX048239.D
Acq On : 20 Oct 2025 15:23
Operator : JC/MD
Sample : VX1020WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260

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

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

Raw Data: **VX048254.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX1021WBL01	SDG No.:	Q3371
Lab Sample ID:	VX1021WBL01	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS										
75-71-8	Dichlorodifluoromethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/21/25 09:40	VX102125
74-87-3	Chloromethane	0.50	U	1	0.32	0.50	1.00	ug/L	10/21/25 09:40	VX102125
75-01-4	Vinyl Chloride	0.75	U	1	0.26	0.75	1.00	ug/L	10/21/25 09:40	VX102125
74-83-9	Bromomethane	3.80	U	1	1.40	3.80	5.00	ug/L	10/21/25 09:40	VX102125
75-00-3	Chloroethane	0.75	U	1	0.47	0.75	1.00	ug/L	10/21/25 09:40	VX102125
75-69-4	Trichlorofluoromethane	0.50	U	1	0.33	0.50	1.00	ug/L	10/21/25 09:40	VX102125
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	1	0.25	0.50	1.00	ug/L	10/21/25 09:40	VX102125
75-35-4	1,1-Dichloroethene	0.75	U	1	0.23	0.75	1.00	ug/L	10/21/25 09:40	VX102125
67-64-1	Acetone	3.80	U	1	1.50	3.80	5.00	ug/L	10/21/25 09:40	VX102125
75-15-0	Carbon Disulfide	0.75	U	1	0.21	0.75	1.00	ug/L	10/21/25 09:40	VX102125
1634-04-4	Methyl tert-butyl Ether	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 09:40	VX102125
79-20-9	Methyl Acetate	0.75	U	1	0.27	0.75	1.00	ug/L	10/21/25 09:40	VX102125
75-09-2	Methylene Chloride	0.50	U	1	0.28	0.50	1.00	ug/L	10/21/25 09:40	VX102125
156-60-5	trans-1,2-Dichloroethene	0.50	U	1	0.23	0.50	1.00	ug/L	10/21/25 09:40	VX102125
75-34-3	1,1-Dichloroethane	0.50	U	1	0.23	0.50	1.00	ug/L	10/21/25 09:40	VX102125
110-82-7	Cyclohexane	2.50	U	1	1.50	2.50	5.00	ug/L	10/21/25 09:40	VX102125
78-93-3	2-Butanone	2.50	U	1	0.98	2.50	5.00	ug/L	10/21/25 09:40	VX102125
56-23-5	Carbon Tetrachloride	0.50	U	1	0.25	0.50	1.00	ug/L	10/21/25 09:40	VX102125
156-59-2	cis-1,2-Dichloroethene	0.75	U	1	0.19	0.75	1.00	ug/L	10/21/25 09:40	VX102125
74-97-5	Bromochloromethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/21/25 09:40	VX102125
67-66-3	Chloroform	0.50	U	1	0.25	0.50	1.00	ug/L	10/21/25 09:40	VX102125
71-55-6	1,1,1-Trichloroethane	0.50	U	1	0.20	0.50	1.00	ug/L	10/21/25 09:40	VX102125
108-87-2	Methylcyclohexane	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 09:40	VX102125
71-43-2	Benzene	0.50	U	1	0.15	0.50	1.00	ug/L	10/21/25 09:40	VX102125
107-06-2	1,2-Dichloroethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/21/25 09:40	VX102125
79-01-6	Trichloroethene	0.75	U	1	0.090	0.75	1.00	ug/L	10/21/25 09:40	VX102125
78-87-5	1,2-Dichloropropane	0.50	U	1	0.20	0.50	1.00	ug/L	10/21/25 09:40	VX102125
75-27-4	Bromodichloromethane	0.50	U	1	0.22	0.50	1.00	ug/L	10/21/25 09:40	VX102125
108-10-1	4-Methyl-2-Pentanone	2.50	U	1	0.68	2.50	5.00	ug/L	10/21/25 09:40	VX102125
108-88-3	Toluene	0.50	U	1	0.14	0.50	1.00	ug/L	10/21/25 09:40	VX102125
10061-02-6	t-1,3-Dichloropropene	0.50	U	1	0.17	0.50	1.00	ug/L	10/21/25 09:40	VX102125
10061-01-5	cis-1,3-Dichloropropene	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 09:40	VX102125
79-00-5	1,1,2-Trichloroethane	0.50	U	1	0.21	0.50	1.00	ug/L	10/21/25 09:40	VX102125
591-78-6	2-Hexanone	2.50	U	1	0.89	2.50	5.00	ug/L	10/21/25 09:40	VX102125
124-48-1	Dibromochloromethane	0.50	U	1	0.18	0.50	1.00	ug/L	10/21/25 09:40	VX102125
106-93-4	1,2-Dibromoethane	0.50	U	1	0.15	0.50	1.00	ug/L	10/21/25 09:40	VX102125
127-18-4	Tetrachloroethene	0.50	U	1	0.23	0.50	1.00	ug/L	10/21/25 09:40	VX102125
108-90-7	Chlorobenzene	0.50	U	1	0.12	0.50	1.00	ug/L	10/21/25 09:40	VX102125
100-41-4	Ethyl Benzene	0.50	U	1	0.13	0.50	1.00	ug/L	10/21/25 09:40	VX102125
179601-23-1	m/p-Xylenes	1.00	U	1	0.24	1.00	2.00	ug/L	10/21/25 09:40	VX102125
95-47-6	o-Xylene	0.50	U	1	0.12	0.50	1.00	ug/L	10/21/25 09:40	VX102125
100-42-5	Styrene	0.50	U	1	0.15	0.50	1.00	ug/L	10/21/25 09:40	VX102125
75-25-2	Bromoform	0.50	U	1	0.19	0.50	1.00	ug/L	10/21/25 09:40	VX102125

Raw Data: **VX048254.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX1021WBL01	SDG No.:	Q3371
Lab Sample ID:	VX1021WBL01	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.50	U	1	0.12	0.50	1.00	ug/L	10/21/25 09:40	VX102125
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	1	0.26	0.50	1.00	ug/L	10/21/25 09:40	VX102125
541-73-1	1,3-Dichlorobenzene	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 09:40	VX102125
106-46-7	1,4-Dichlorobenzene	0.50	U	1	0.19	0.50	1.00	ug/L	10/21/25 09:40	VX102125
95-50-1	1,2-Dichlorobenzene	0.50	U	1	0.16	0.50	1.00	ug/L	10/21/25 09:40	VX102125
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	1	0.53	0.75	1.00	ug/L	10/21/25 09:40	VX102125
120-82-1	1,2,4-Trichlorobenzene	0.50	U	1	0.20	0.50	1.00	ug/L	10/21/25 09:40	VX102125
87-61-6	1,2,3-Trichlorobenzene	0.75	U	1	0.20	0.75	1.00	ug/L	10/21/25 09:40	VX102125
SURROGATES										
17060-07-0	1,2-Dichloroethane-d4	52.5			81 - 118		105%	SPK: 50		
1868-53-7	Dibromofluoromethane	47.1			80 - 119		94%	SPK: 50		
2037-26-5	Toluene-d8	46.4			89 - 112		93%	SPK: 50		
460-00-4	4-Bromofluorobenzene	52.7			85 - 114		105%	SPK: 50		
INTERNAL STANDARDS		**Area Count**								
363-72-4	Pentafluorobenzene	122000								
540-36-3	1,4-Difluorobenzene	241000								
3114-55-4	Chlorobenzene-d5	248000								
3855-82-1	1,4-Dichlorobenzene-d4	127000								

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\VX102125\
Data File : VX048254.D
Acq On : 21 Oct 2025 09:40
Operator : JC/MD
Sample : VX1021WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBL01

Quant Time: Oct 24 04:22:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	121915	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	240535	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	247603	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	126551	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	89687	52.469	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 104.940%			
35) Dibromofluoromethane	5.367	113	77294	47.070	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.140%			
50) Toluene-d8	8.629	98	267020	46.391	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 92.780%			
62) 4-Bromofluorobenzene	11.061	95	115293	52.653	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 105.300%			

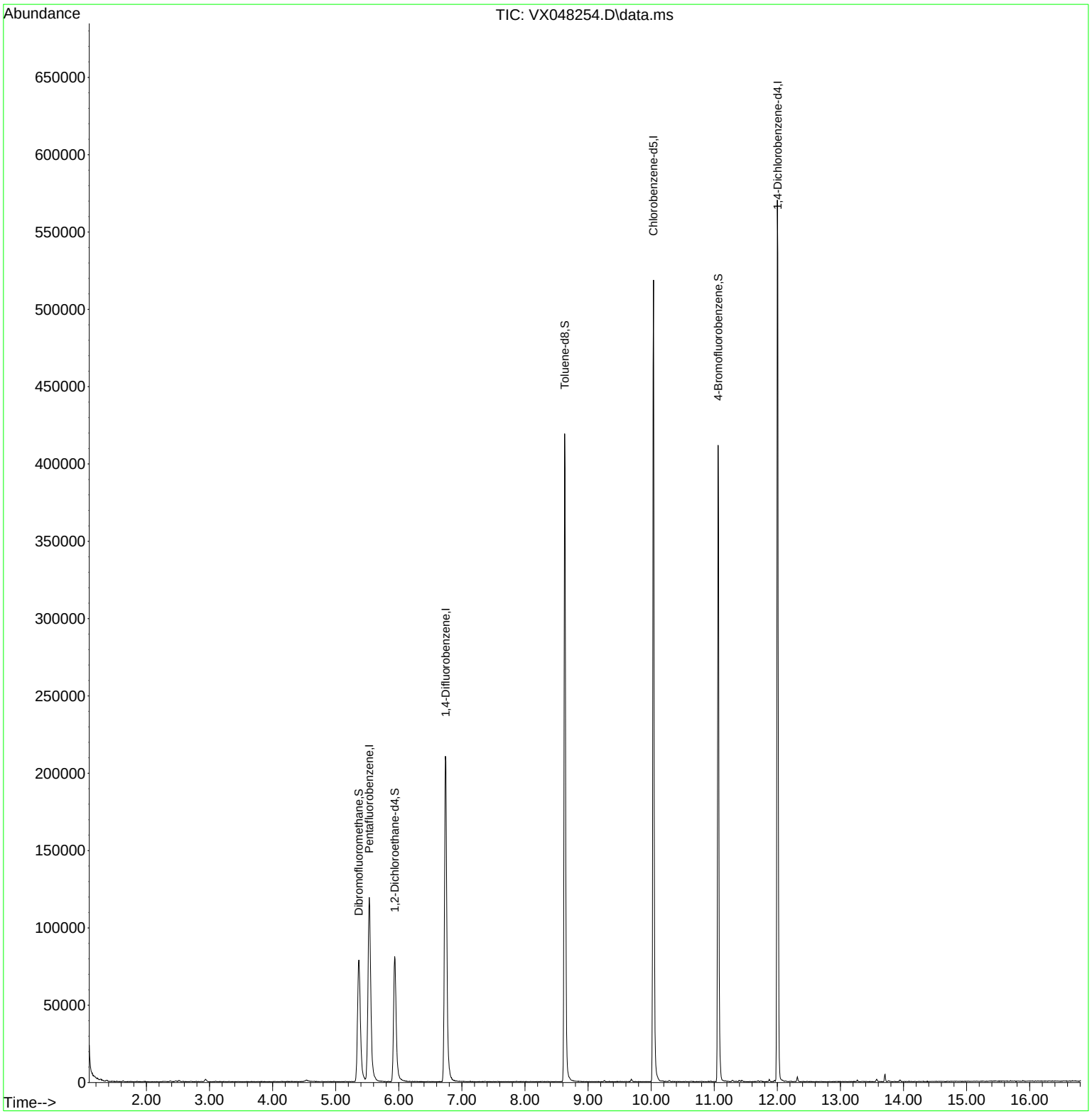
Target Compounds Qvalue

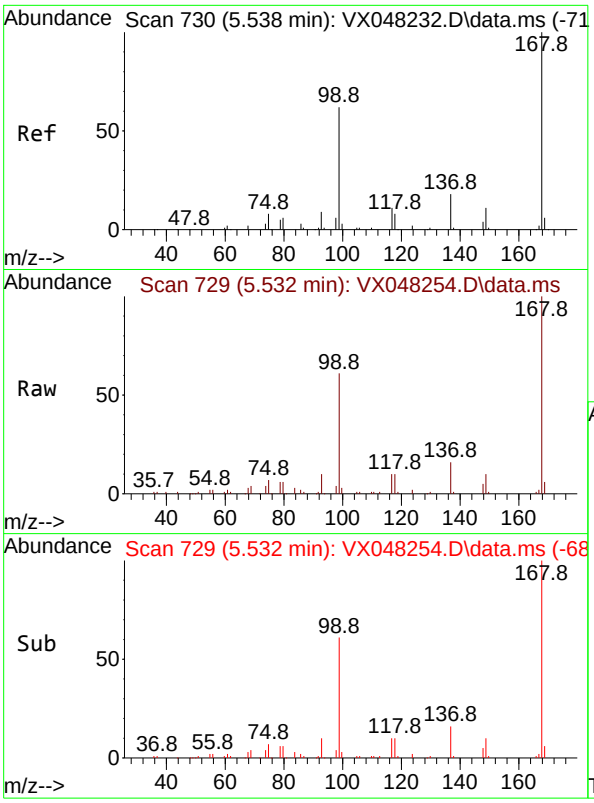
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048254.D
Acq On : 21 Oct 2025 09:40
Operator : JC/MD
Sample : VX1021WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBL01

Quant Time: Oct 24 04:22:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration



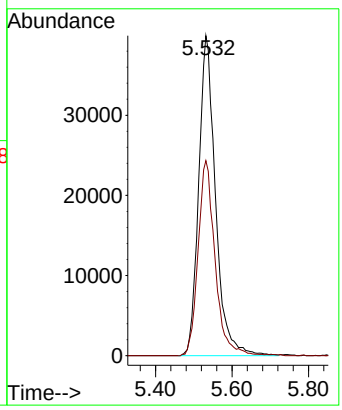


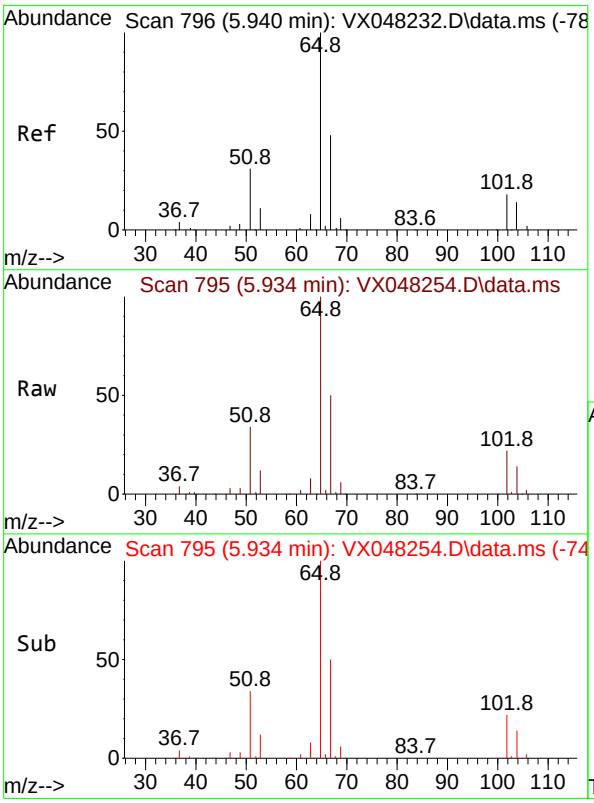
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX048254.D
Acq: 21 Oct 2025 09:40

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBL01

Tgt Ion:168 Resp: 121915

Ion	Ratio	Lower	Upper
168	100		
99	60.9	46.4	69.6

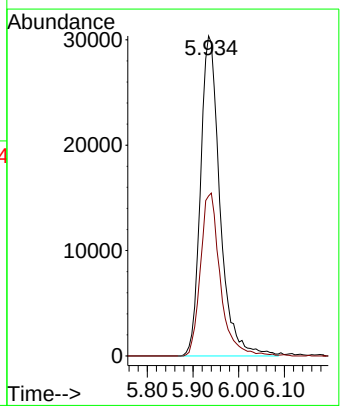


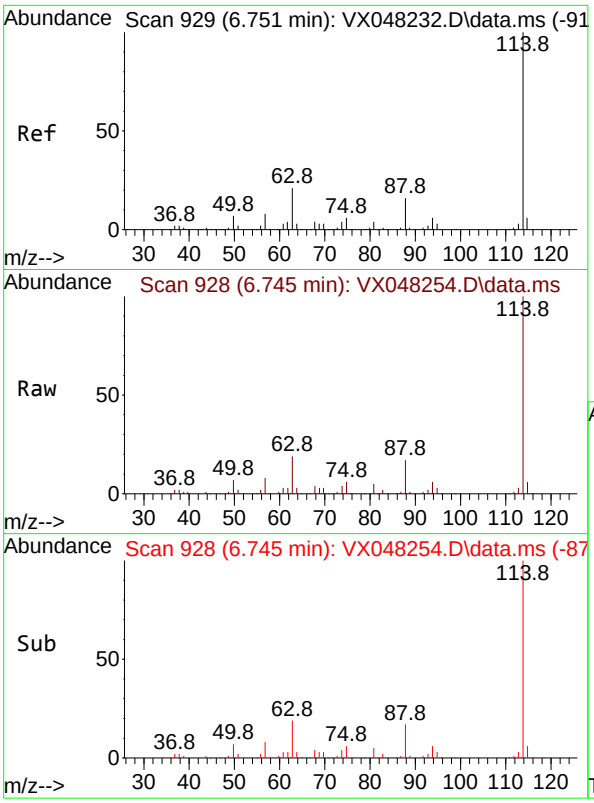


#33
1,2-Dichloroethane-d4
Concen: 52.469 ug/l
RT: 5.934 min Scan# 795
Delta R.T. -0.006 min
Lab File: VX048254.D
Acq: 21 Oct 2025 09:40

Tgt Ion: 65 Resp: 89687

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	105.0



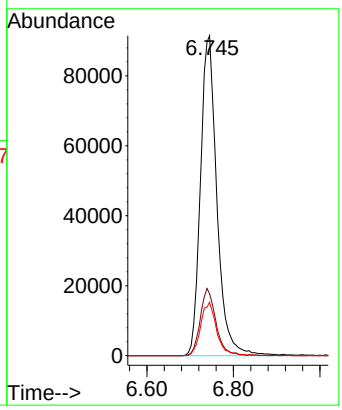


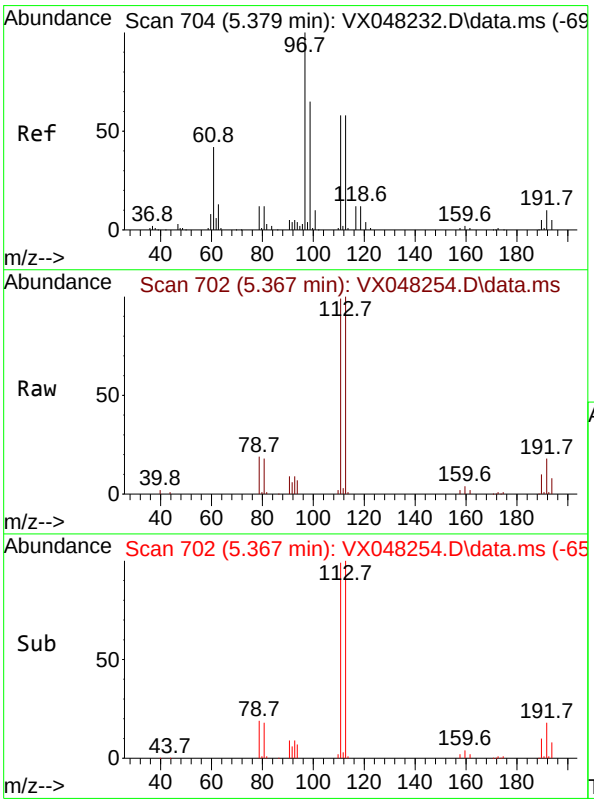
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX048254.D
Acq: 21 Oct 2025 09:40

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBL01

Tgt Ion:114 Resp: 240535

Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	43.2
88	16.7	0.0	33.6

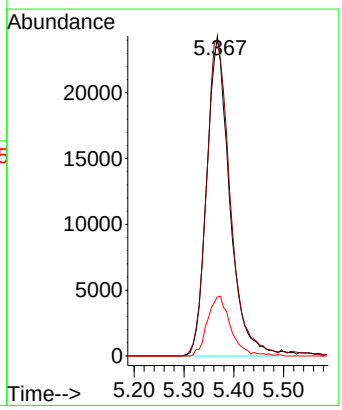


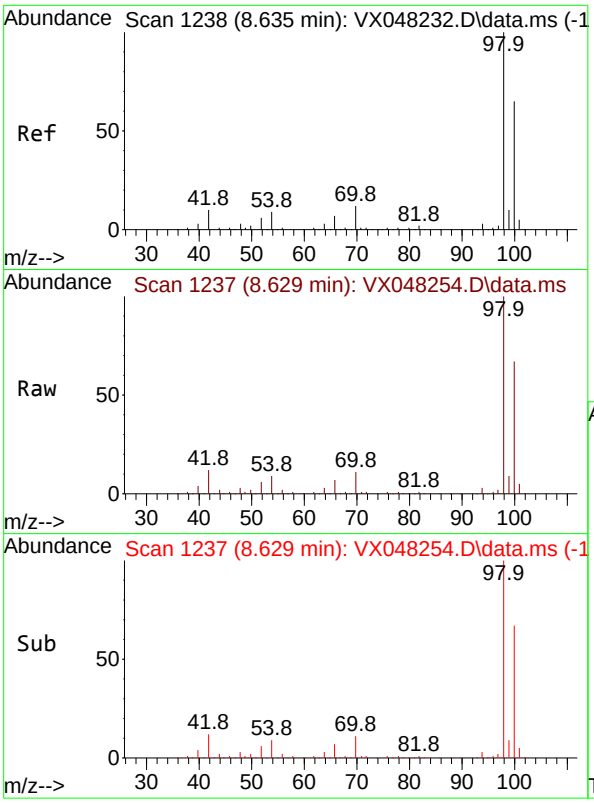


#35
Dibromofluoromethane
Concen: 47.070 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX048254.D
Acq: 21 Oct 2025 09:40

Tgt Ion:113 Resp: 77294

Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.2	123.4
192	19.2	15.1	22.7



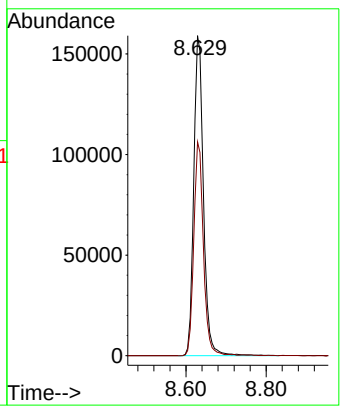


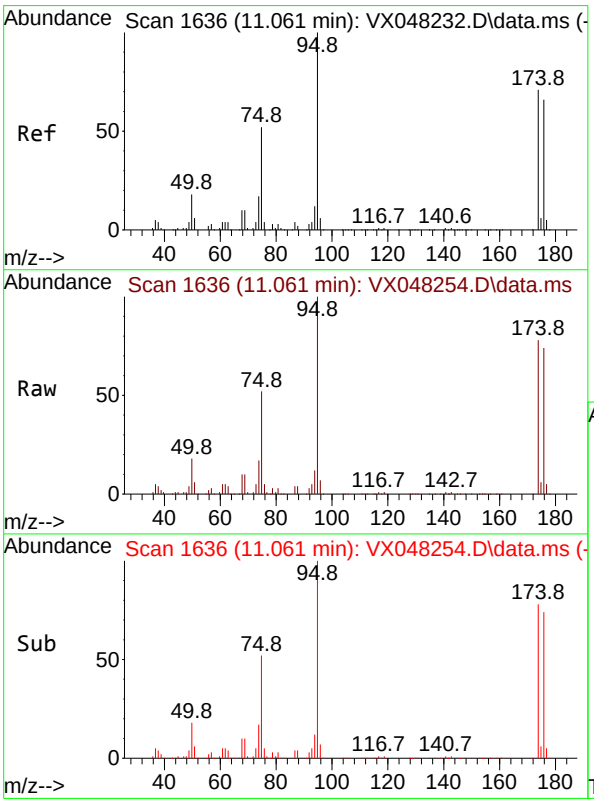
#50
Toluene-d8
Concen: 46.391 ug/l
RT: 8.629 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048254.D
Acq: 21 Oct 2025 09:40

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBL01

Tgt Ion: 98 Resp: 267020

Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.0	79.4

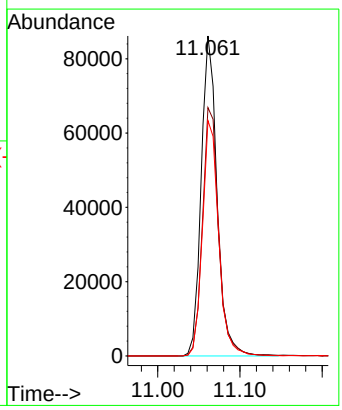


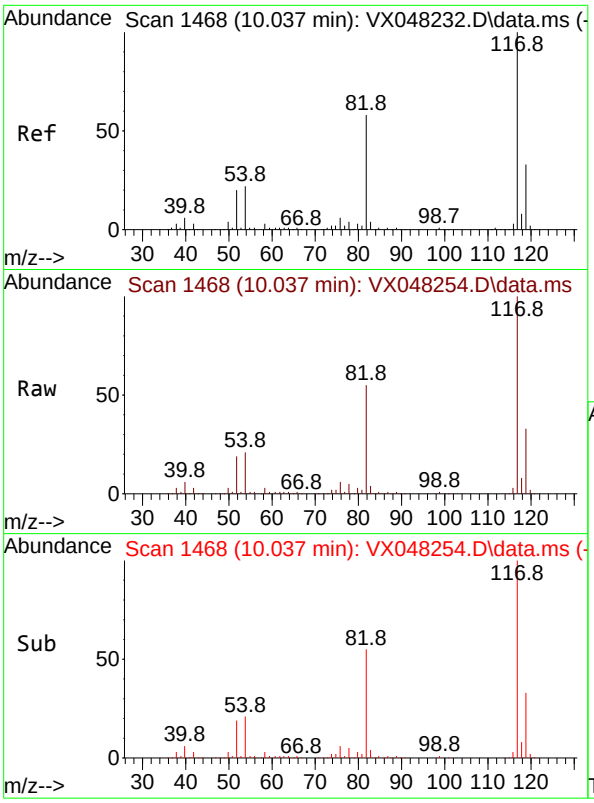


#62
4-Bromofluorobenzene
Concen: 52.653 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX048254.D
Acq: 21 Oct 2025 09:40

Tgt Ion: 95 Resp: 115293

Ion	Ratio	Lower	Upper
95	100		
174	79.8	0.0	147.8
176	75.2	0.0	142.8



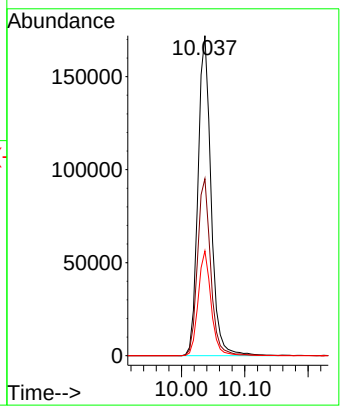


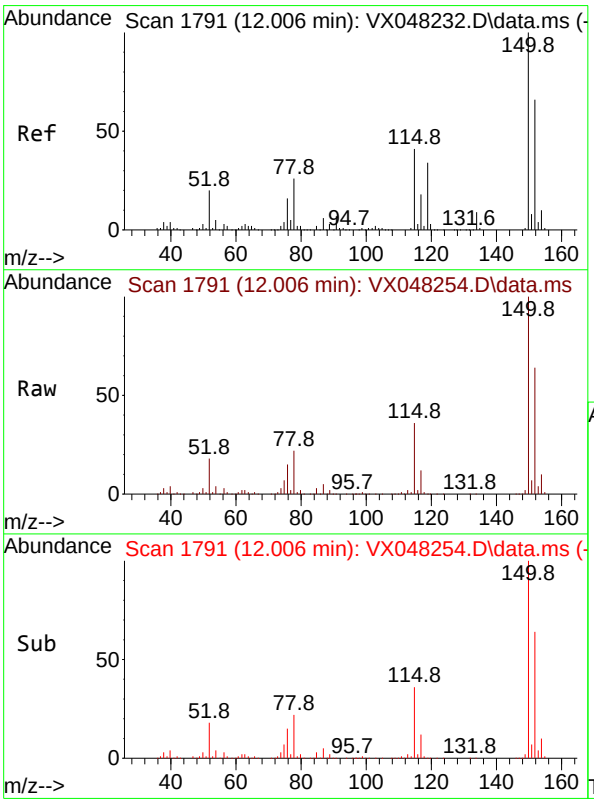
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048254.D
Acq: 21 Oct 2025 09:40

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBL01

Tgt Ion:117 Resp: 247603

Ion	Ratio	Lower	Upper
117	100		
82	55.3	46.5	69.7
119	32.8	25.9	38.9

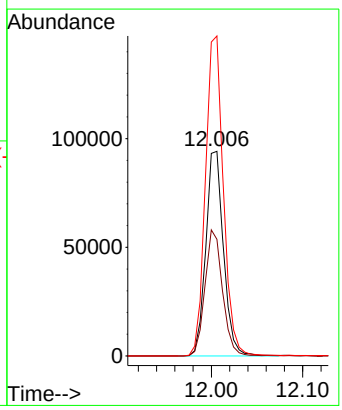




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX048254.D
Acq: 21 Oct 2025 09:40

Tgt Ion:152 Resp: 126551

Ion	Ratio	Lower	Upper
152	100		
115	61.1	43.1	129.4
150	158.4	0.0	353.0



Sample Results: **VX048254.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048254.D
Acq On : 21 Oct 2025 09:40
Operator : JC/MD
Sample : VX1021WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBL01

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\82X102025W.M
Title : SW846 8260

Signal : TIC: VX048254.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.367	691	702	718	rBV2	78626	252593	33.18%	6.046%
2	5.532	718	729	756	rVB2	119045	368571	48.41%	8.823%
3	5.934	785	795	820	rBV	80911	237948	31.26%	5.696%
4	6.739	918	927	946	rBV	210443	552273	72.54%	13.220%
5	8.629	1231	1237	1257	rBV	418894	703255	92.38%	16.834%
6	10.037	1462	1468	1486	rBV	518402	749543	98.46%	17.942%
7	11.061	1631	1636	1649	rBV	411591	552091	72.52%	13.216%
8	12.000	1785	1790	1808	rVB	569974	761297	100.00%	18.223%

Sum of corrected areas: 4177571

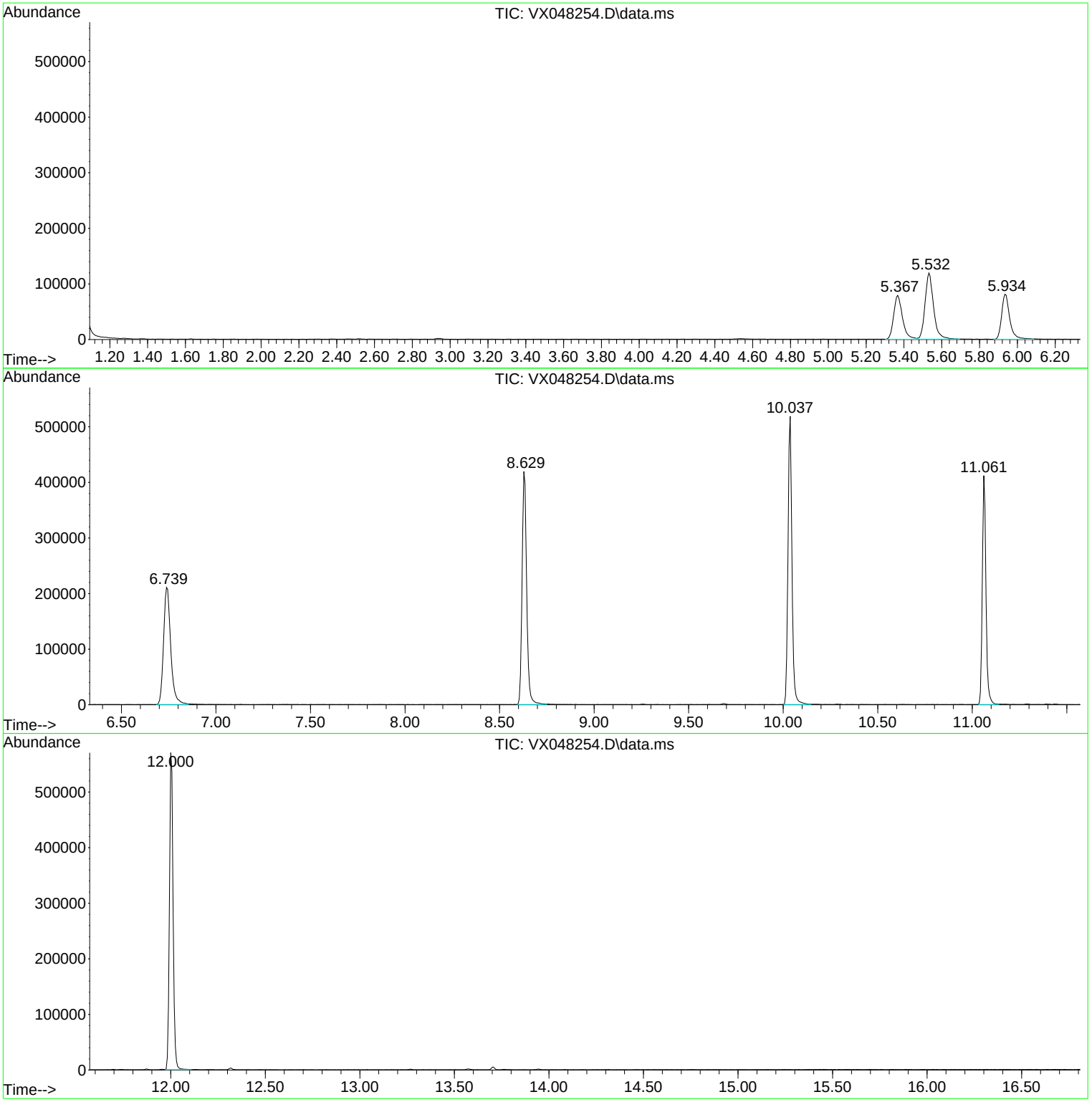
Sample Results: **VX048254.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048254.D
Acq On : 21 Oct 2025 09:40
Operator : JC/MD
Sample : VX1021WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VX048254.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048254.D
Acq On : 21 Oct 2025 09:40
Operator : JC/MD
Sample : VX1021WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.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\VX102125\
Data File : VX048254.D
Acq On : 21 Oct 2025 09:40
Operator : JC/MD
Sample : VX1021WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260

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

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

Raw Data: **VX048240.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX1020WBS01	SDG No.:	Q3371
Lab Sample ID:	VX1020WBS01	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS										
75-71-8	Dichlorodifluoromethane	17.8		1	0.22	0.50	1.00	ug/L	10/20/25 15:50	VX102025
74-87-3	Chloromethane	19.4		1	0.32	0.50	1.00	ug/L	10/20/25 15:50	VX102025
75-01-4	Vinyl Chloride	19.2		1	0.26	0.75	1.00	ug/L	10/20/25 15:50	VX102025
74-83-9	Bromomethane	21.5		1	1.40	3.80	5.00	ug/L	10/20/25 15:50	VX102025
75-00-3	Chloroethane	21.1		1	0.47	0.75	1.00	ug/L	10/20/25 15:50	VX102025
75-69-4	Trichlorofluoromethane	18.7		1	0.33	0.50	1.00	ug/L	10/20/25 15:50	VX102025
76-13-1	1,1,2-Trichlorotrifluoroethane	18.3		1	0.25	0.50	1.00	ug/L	10/20/25 15:50	VX102025
75-35-4	1,1-Dichloroethene	19.3		1	0.23	0.75	1.00	ug/L	10/20/25 15:50	VX102025
67-64-1	Acetone	85.7		1	1.50	3.80	5.00	ug/L	10/20/25 15:50	VX102025
75-15-0	Carbon Disulfide	17.9		1	0.21	0.75	1.00	ug/L	10/20/25 15:50	VX102025
1634-04-4	Methyl tert-butyl Ether	18.7		1	0.16	0.50	1.00	ug/L	10/20/25 15:50	VX102025
79-20-9	Methyl Acetate	19.7		1	0.27	0.75	1.00	ug/L	10/20/25 15:50	VX102025
75-09-2	Methylene Chloride	19.9		1	0.28	0.50	1.00	ug/L	10/20/25 15:50	VX102025
156-60-5	trans-1,2-Dichloroethene	19.5		1	0.23	0.50	1.00	ug/L	10/20/25 15:50	VX102025
75-34-3	1,1-Dichloroethane	18.8		1	0.23	0.50	1.00	ug/L	10/20/25 15:50	VX102025
110-82-7	Cyclohexane	18.7		1	1.50	2.50	5.00	ug/L	10/20/25 15:50	VX102025
78-93-3	2-Butanone	92.0		1	0.98	2.50	5.00	ug/L	10/20/25 15:50	VX102025
56-23-5	Carbon Tetrachloride	17.6		1	0.25	0.50	1.00	ug/L	10/20/25 15:50	VX102025
156-59-2	cis-1,2-Dichloroethene	19.1		1	0.19	0.75	1.00	ug/L	10/20/25 15:50	VX102025
74-97-5	Bromochloromethane	21.4		1	0.22	0.50	1.00	ug/L	10/20/25 15:50	VX102025
67-66-3	Chloroform	19.3		1	0.25	0.50	1.00	ug/L	10/20/25 15:50	VX102025
71-55-6	1,1,1-Trichloroethane	18.8		1	0.20	0.50	1.00	ug/L	10/20/25 15:50	VX102025
108-87-2	Methylcyclohexane	17.3		1	0.16	0.50	1.00	ug/L	10/20/25 15:50	VX102025
71-43-2	Benzene	18.8		1	0.15	0.50	1.00	ug/L	10/20/25 15:50	VX102025
107-06-2	1,2-Dichloroethane	18.8		1	0.22	0.50	1.00	ug/L	10/20/25 15:50	VX102025
79-01-6	Trichloroethene	19.2		1	0.090	0.75	1.00	ug/L	10/20/25 15:50	VX102025
78-87-5	1,2-Dichloropropane	19.4		1	0.20	0.50	1.00	ug/L	10/20/25 15:50	VX102025
75-27-4	Bromodichloromethane	18.9		1	0.22	0.50	1.00	ug/L	10/20/25 15:50	VX102025
108-10-1	4-Methyl-2-Pentanone	94.8		1	0.68	2.50	5.00	ug/L	10/20/25 15:50	VX102025
108-88-3	Toluene	19.3		1	0.14	0.50	1.00	ug/L	10/20/25 15:50	VX102025
10061-02-6	t-1,3-Dichloropropene	18.9		1	0.17	0.50	1.00	ug/L	10/20/25 15:50	VX102025
10061-01-5	cis-1,3-Dichloropropene	19.0		1	0.16	0.50	1.00	ug/L	10/20/25 15:50	VX102025
79-00-5	1,1,2-Trichloroethane	19.5		1	0.21	0.50	1.00	ug/L	10/20/25 15:50	VX102025
591-78-6	2-Hexanone	94.6		1	0.89	2.50	5.00	ug/L	10/20/25 15:50	VX102025
124-48-1	Dibromochloromethane	18.5		1	0.18	0.50	1.00	ug/L	10/20/25 15:50	VX102025
106-93-4	1,2-Dibromoethane	19.1		1	0.15	0.50	1.00	ug/L	10/20/25 15:50	VX102025
127-18-4	Tetrachloroethene	17.7		1	0.23	0.50	1.00	ug/L	10/20/25 15:50	VX102025
108-90-7	Chlorobenzene	19.0		1	0.12	0.50	1.00	ug/L	10/20/25 15:50	VX102025
100-41-4	Ethyl Benzene	18.5		1	0.13	0.50	1.00	ug/L	10/20/25 15:50	VX102025
179601-23-1	m/p-Xylenes	38.5		1	0.24	1.00	2.00	ug/L	10/20/25 15:50	VX102025
95-47-6	o-Xylene	18.7		1	0.12	0.50	1.00	ug/L	10/20/25 15:50	VX102025
100-42-5	Styrene	19.1		1	0.15	0.50	1.00	ug/L	10/20/25 15:50	VX102025
75-25-2	Bromoform	18.6		1	0.19	0.50	1.00	ug/L	10/20/25 15:50	VX102025

Raw Data: **VX048240.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX1020WBS01	SDG No.:	Q3371
Lab Sample ID:	VX1020WBS01	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	18.3		1	0.12	0.50	1.00	ug/L	10/20/25 15:50	VX102025
79-34-5	1,1,2,2-Tetrachloroethane	19.0		1	0.26	0.50	1.00	ug/L	10/20/25 15:50	VX102025
541-73-1	1,3-Dichlorobenzene	18.0		1	0.16	0.50	1.00	ug/L	10/20/25 15:50	VX102025
106-46-7	1,4-Dichlorobenzene	17.9		1	0.19	0.50	1.00	ug/L	10/20/25 15:50	VX102025
95-50-1	1,2-Dichlorobenzene	18.3		1	0.16	0.50	1.00	ug/L	10/20/25 15:50	VX102025
96-12-8	1,2-Dibromo-3-Chloropropane	17.6		1	0.53	0.75	1.00	ug/L	10/20/25 15:50	VX102025
120-82-1	1,2,4-Trichlorobenzene	16.1		1	0.20	0.50	1.00	ug/L	10/20/25 15:50	VX102025
87-61-6	1,2,3-Trichlorobenzene	16.8		1	0.20	0.75	1.00	ug/L	10/20/25 15:50	VX102025
SURROGATES										
17060-07-0	1,2-Dichloroethane-d4	51.7			81 - 118		103%	SPK: 50		
1868-53-7	Dibromofluoromethane	51.2			80 - 119		102%	SPK: 50		
2037-26-5	Toluene-d8	51.9			89 - 112		104%	SPK: 50		
460-00-4	4-Bromofluorobenzene	51.1			85 - 114		102%	SPK: 50		

INTERNAL STANDARDS		Area Count
363-72-4	Pentafluorobenzene	135000
540-36-3	1,4-Difluorobenzene	222000
3114-55-4	Chlorobenzene-d5	201000
3855-82-1	1,4-Dichlorobenzene-d4	102000

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

Sample Results: **VX048240.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048240.D
Acq On : 20 Oct 2025 15:50
Operator : JC/MD
Sample : VX1020WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 20 16:11:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	134660	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	221833	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	200515	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	101575	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	97664	51.728	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 103.460%			
35) Dibromofluoromethane	5.367	113	77595	51.237	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.480%			
50) Toluene-d8	8.628	98	275727	51.943	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 103.880%			
62) 4-Bromofluorobenzene	11.061	95	103135	51.072	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	24708	17.848	ug/l	95
3) Chloromethane	1.300	50	25077	19.407	ug/l	95
4) Vinyl Chloride	1.380	62	22981	19.206	ug/l	94
5) Bromomethane	1.617	94	17486	21.534	ug/l	98
6) Chloroethane	1.697	64	14806	21.058	ug/l	90
7) Trichlorofluoromethane	1.898	101	42803	18.652	ug/l	98
8) Diethyl Ether	2.136	74	12617	19.540	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.337	101	26596	18.302	ug/l	96
10) Methyl Iodide	2.453	142	31308	17.138	ug/l	97
11) Tert butyl alcohol	2.940	59	17139	91.429	ug/l	96
12) 1,1-Dichloroethene	2.325	96	27320	19.324	ug/l	91
13) Acrolein	2.233	56	21046	110.081	ug/l	100
14) Allyl chloride	2.666	41	45510	19.389	ug/l	97
15) Acrylonitrile	3.056	53	63454	93.873	ug/l	99
16) Acetone	2.373	43	55537	85.745	ug/l	99
17) Carbon Disulfide	2.514	76	79653	17.877	ug/l	99
18) Methyl Acetate	2.696	43	26712	19.748	ug/l	98
19) Methyl tert-butyl Ether	3.105	73	90374	18.738	ug/l	95
20) Methylene Chloride	2.788	84	31460	19.934	ug/l	91
21) trans-1,2-Dichloroethene	3.087	96	30232	19.468	ug/l	91
22) Diisopropyl ether	3.751	45	94293	20.141	ug/l	91
23) Vinyl Acetate	3.708	43	367791	98.349	ug/l	96
24) 1,1-Dichloroethane	3.605	63	53132	18.769	ug/l	96
25) 2-Butanone	4.532	43	75407	91.980	ug/l	99
26) 2,2-Dichloropropane	4.458	77	45475	17.798	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	34657	19.122	ug/l	99
28) Bromochloromethane	4.885	49	25158	21.434	ug/l	84
29) Tetrahydrofuran	4.989	42	46399	94.500	ug/l	93
30) Chloroform	5.074	83	58330	19.287	ug/l	97
31) Cyclohexane	5.458	56	43852	18.711	ug/l	86
32) 1,1,1-Trichloroethane	5.373	97	52467	18.824	ug/l	97
36) 1,1-Dichloropropene	5.678	75	39432	18.319	ug/l	98
37) Ethyl Acetate	4.696	43	32030	17.952	ug/l	97
38) Carbon Tetrachloride	5.659	117	46868	17.648	ug/l	95
39) Methylcyclohexane	7.360	83	44057	17.331	ug/l	95
40) Benzene	6.019	78	117785	18.847	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048240.D
Acq On : 20 Oct 2025 15:50
Operator : JC/MD
Sample : VX1020WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 20 16:11:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.903	41	18270	19.499	ug/l		99
42) 1,2-Dichloroethane	6.074	62	43384	18.813	ug/l		99
43) Isopropyl Acetate	6.318	43	55493	18.935	ug/l		97
44) Trichloroethene	7.110	130	31625	19.165	ug/l		95
45) 1,2-Dichloropropane	7.409	63	28870	19.430	ug/l		99
46) Dibromomethane	7.561	93	21882	18.903	ug/l		94
47) Bromodichloromethane	7.805	83	47249	18.904	ug/l		100
48) Methyl methacrylate	7.677	41	27258	18.432	ug/l		95
49) 1,4-Dioxane	7.641	88	7038	360.230	ug/l		95
51) 4-Methyl-2-Pentanone	8.555	43	160265	94.846	ug/l		97
52) Toluene	8.701	92	76478	19.263	ug/l		98
53) t-1,3-Dichloropropene	8.964	75	45485	18.884	ug/l		97
54) cis-1,3-Dichloropropene	8.348	75	49253	18.953	ug/l		98
55) 1,1,2-Trichloroethane	9.134	97	28845	19.537	ug/l		98
56) Ethyl methacrylate	9.098	69	40543	18.774	ug/l		92
57) 1,3-Dichloropropane	9.293	76	48615	19.277	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	100252	87.448	ug/l		95
59) 2-Hexanone	9.415	43	111445	94.586	ug/l		97
60) Dibromochloromethane	9.500	129	36715	18.502	ug/l		100
61) 1,2-Dibromoethane	9.592	107	30136	19.146	ug/l		97
64) Tetrachloroethene	9.256	164	26462	17.678	ug/l		96
65) Chlorobenzene	10.061	112	85866	19.036	ug/l		95
66) 1,1,1,2-Tetrachloroethane	10.146	131	31130	18.790	ug/l		98
67) Ethyl Benzene	10.177	91	141796	18.464	ug/l		98
68) m/p-Xylenes	10.287	106	109872	38.506	ug/l		99
69) o-Xylene	10.622	106	51473	18.685	ug/l		99
70) Styrene	10.640	104	89782	19.141	ug/l		100
71) Bromoform	10.780	173	24689	18.645	ug/l	#	99
73) Isopropylbenzene	10.945	105	135441	18.256	ug/l		98
74) N-amyl acetate	10.823	43	47216	17.942	ug/l		95
75) 1,1,2,2-Tetrachloroethane	11.195	83	38478	18.992	ug/l		99
76) 1,2,3-Trichloropropane	11.219	75	29974m	18.197	ug/l		
77) Bromobenzene	11.183	156	35128	18.883	ug/l		92
78) n-propylbenzene	11.286	91	159455	18.563	ug/l		98
79) 2-Chlorotoluene	11.347	91	95469	18.331	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	114180	18.597	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	11508	16.997	ug/l		97
82) 4-Chlorotoluene	11.433	91	117079	18.938	ug/l		99
83) tert-Butylbenzene	11.695	119	116521	18.471	ug/l		95
84) 1,2,4-Trimethylbenzene	11.731	105	113408	18.509	ug/l		100
85) sec-Butylbenzene	11.872	105	136883	18.036	ug/l		99
86) p-Isopropyltoluene	11.994	119	118427	18.053	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	63018	17.970	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	65076	17.912	ug/l		98
89) n-Butylbenzene	12.311	91	102164	17.110	ug/l		100
90) Hexachloroethane	12.518	117	22644	17.480	ug/l		97
91) 1,2-Dichlorobenzene	12.317	146	60180	18.277	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.926	75	7243	17.612	ug/l		98
93) 1,2,4-Trichlorobenzene	13.566	180	35892	16.119	ug/l		98
94) Hexachlorobutadiene	13.707	225	14244	17.115	ug/l		97
95) Naphthalene	13.755	128	102306	17.342	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	34331	16.802	ug/l		97

Sample Results: **VX048240.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048240.D
Acq On : 20 Oct 2025 15:50
Operator : JC/MD
Sample : VX1020WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 20 16:11:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

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

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

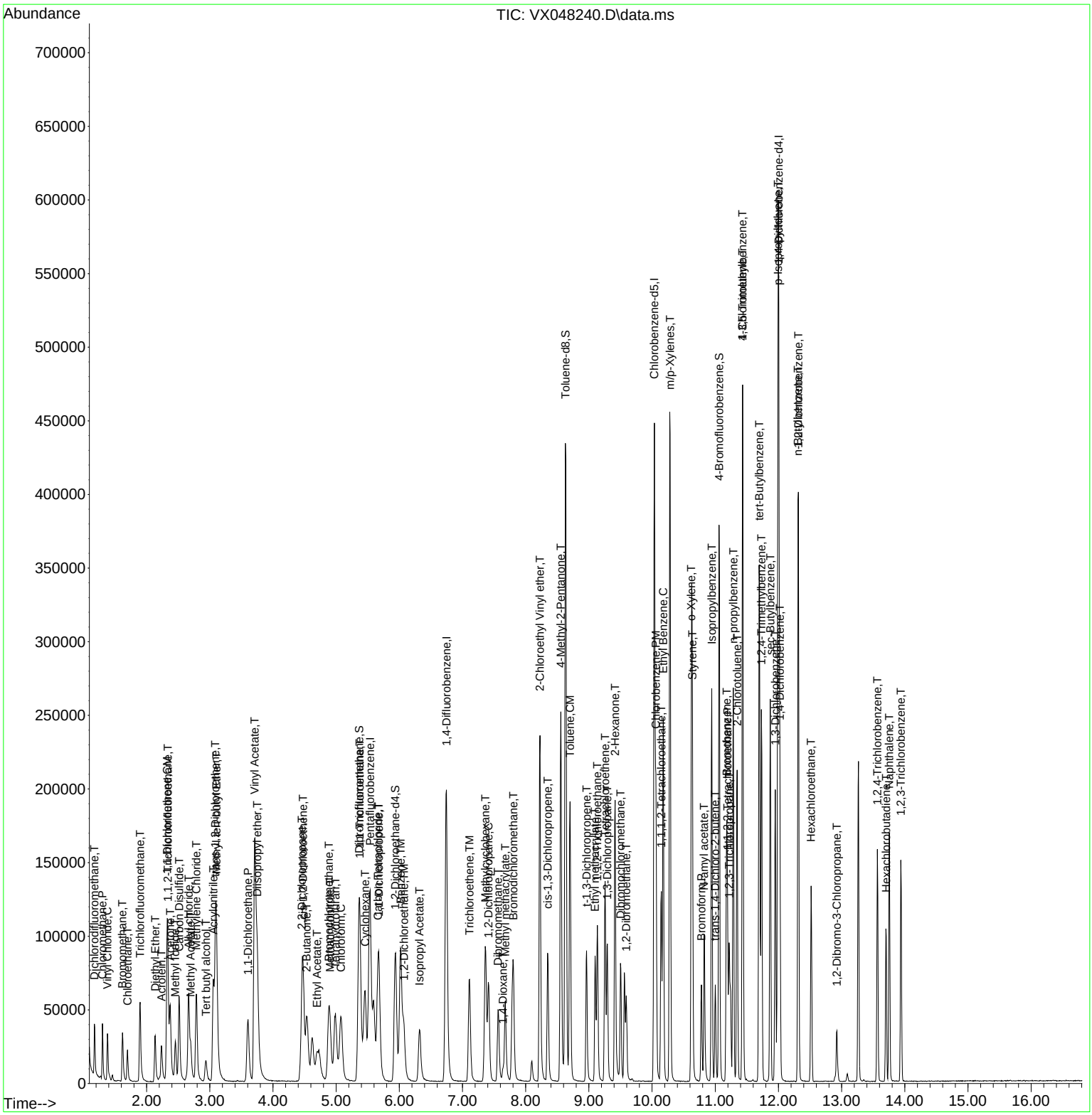
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048240.D
Acq On : 20 Oct 2025 15:50
Operator : JC/MD
Sample : VX1020WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

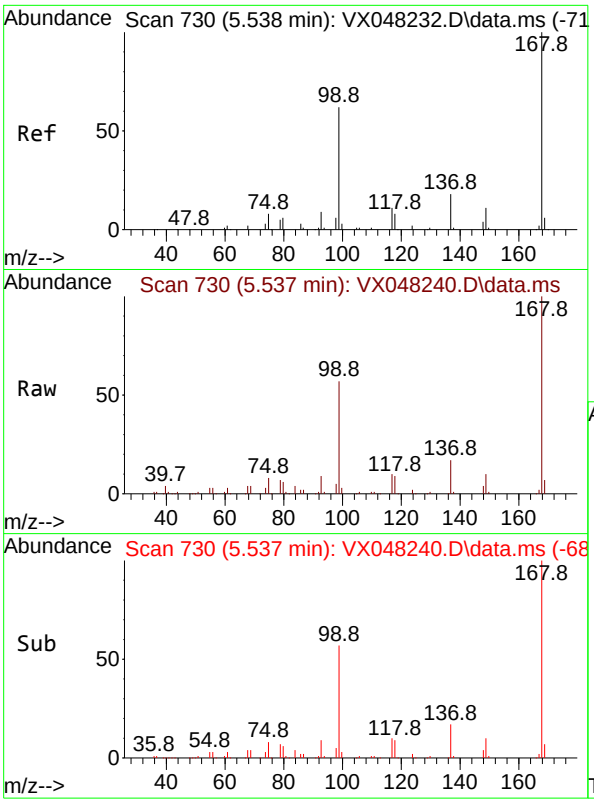
Quant Time: Oct 20 16:11:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

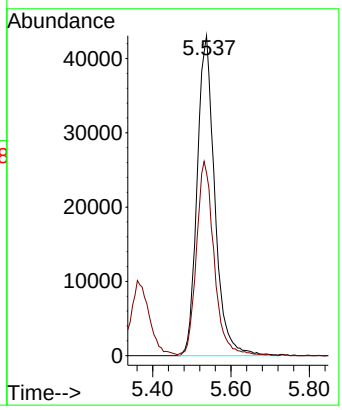




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:168 Resp: 13466

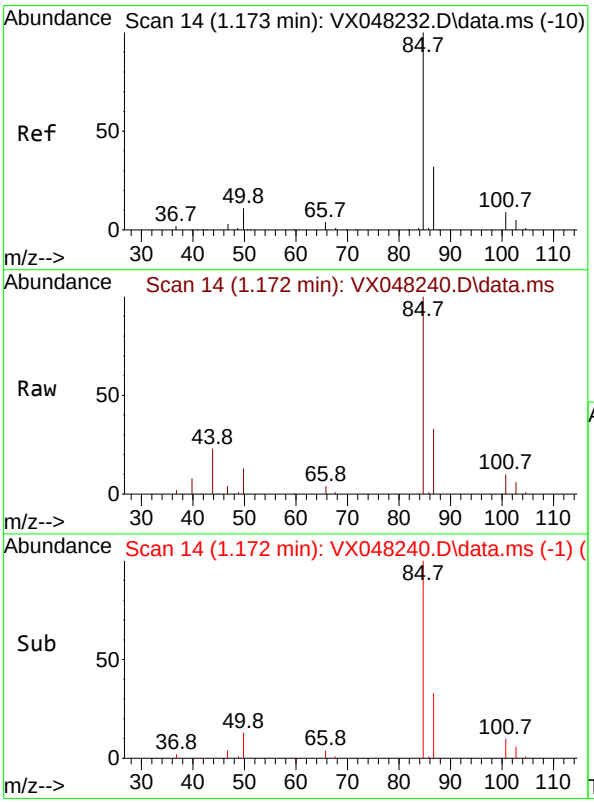
Ion	Ratio	Lower	Upper
168	100		
99	57.1	46.4	69.6



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

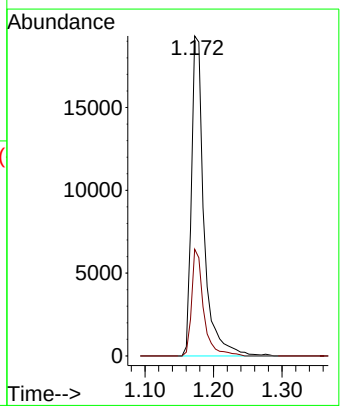
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

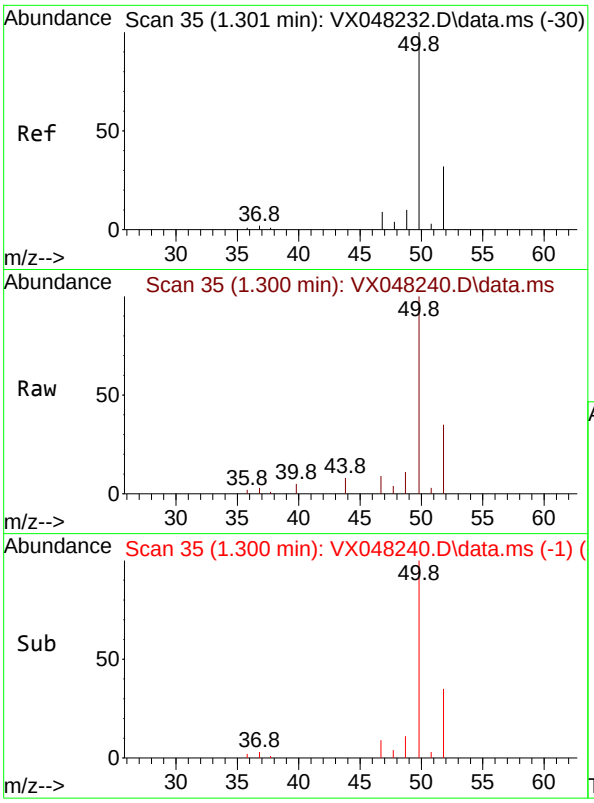


#2
Dichlorodifluoromethane
Concen: 17.848 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 85 Resp: 24708

Ion	Ratio	Lower	Upper
85	100		
87	33.3	15.3	45.9

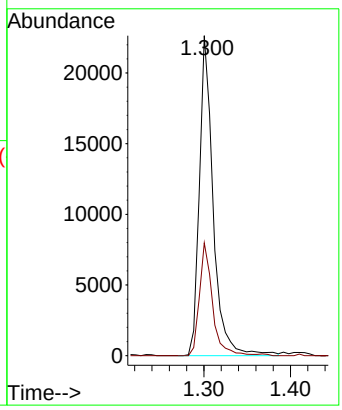




#3
Chloromethane
Concen: 19.407 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 50 Resp: 2507

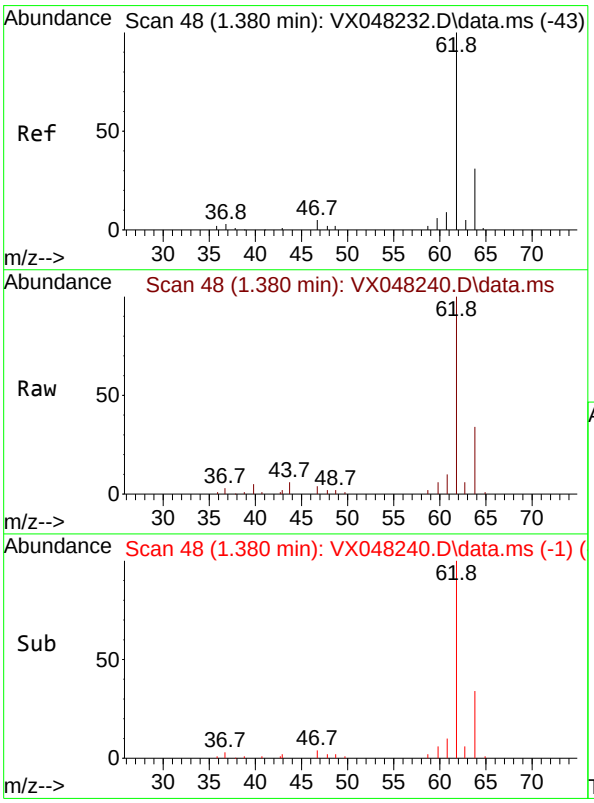
Ion	Ratio	Lower	Upper
50	100		
52	35.2	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

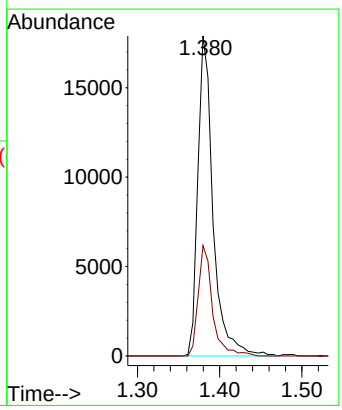
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

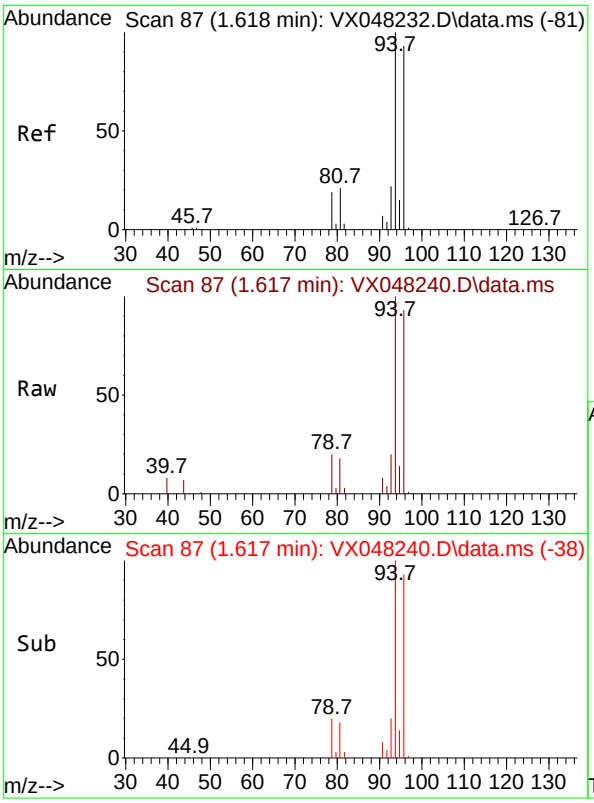


#4
Vinyl Chloride
Concen: 19.206 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 62 Resp: 22981

Ion	Ratio	Lower	Upper
62	100		
64	34.5	25.1	37.7

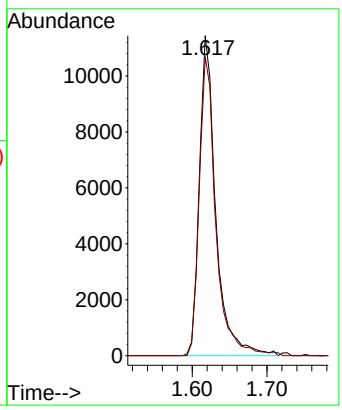




#5
Bromomethane
Concen: 21.534 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 94 Resp: 1748

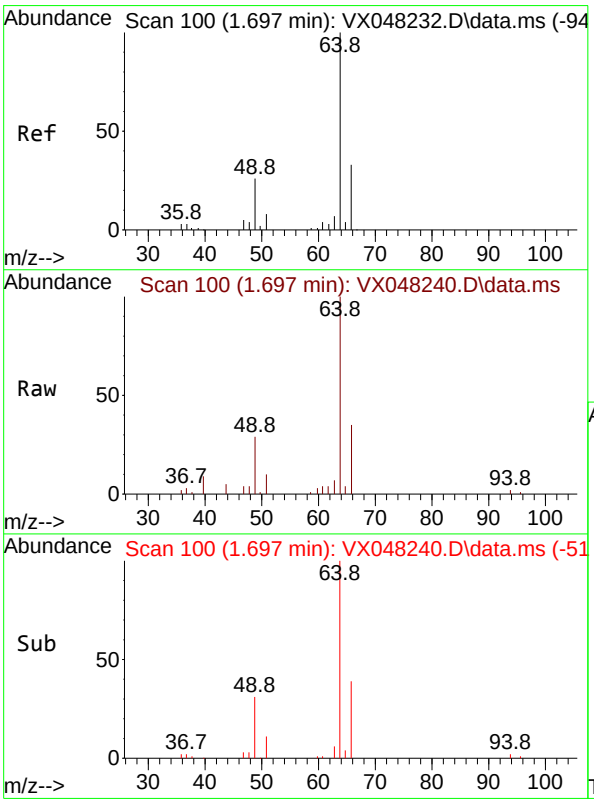
Ion	Ratio	Lower	Upper
94	100		
96	93.4	76.0	114.0



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

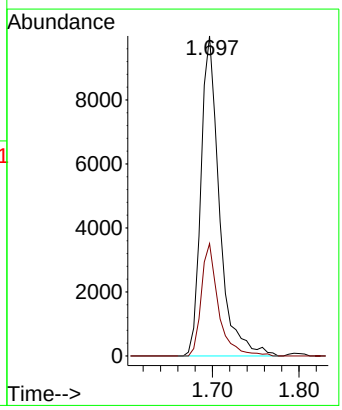
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

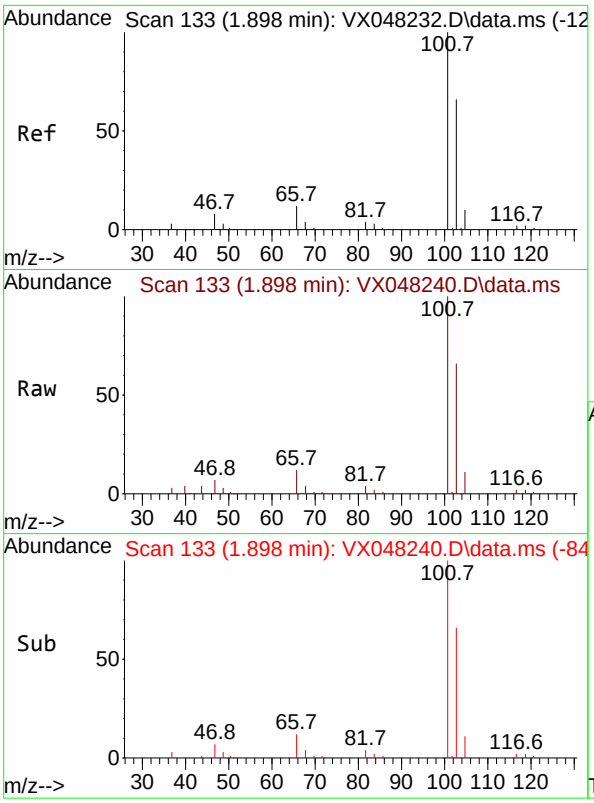


#6
Chloroethane
Concen: 21.058 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 64 Resp: 14806

Ion	Ratio	Lower	Upper
64	100		
66	35.1	23.9	35.9

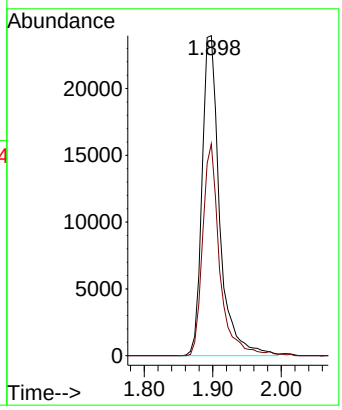




#7
Trichlorofluoromethane
Concen: 18.652 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:101 Resp: 4280

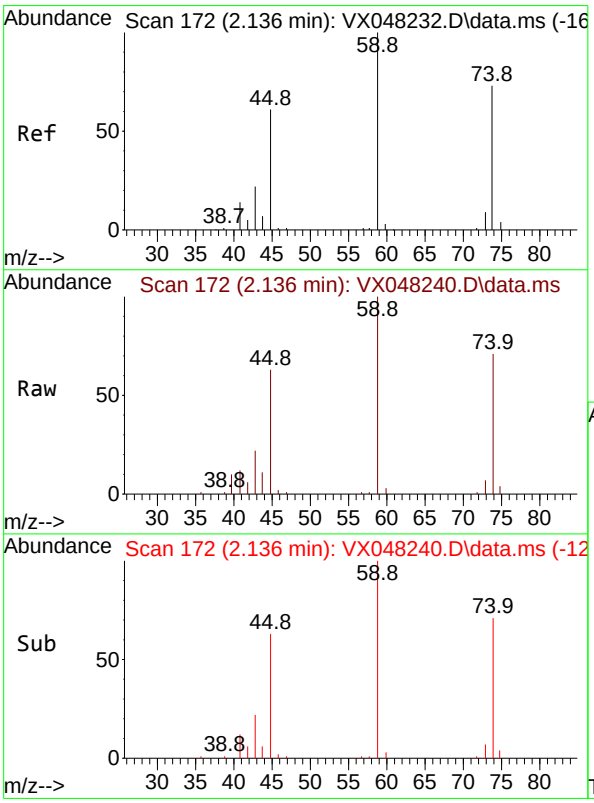
Ion	Ratio	Lower	Upper
101	100		
103	66.2	51.6	77.4



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

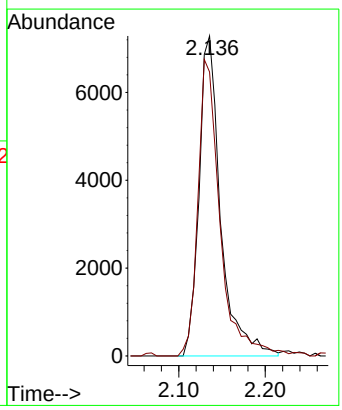
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

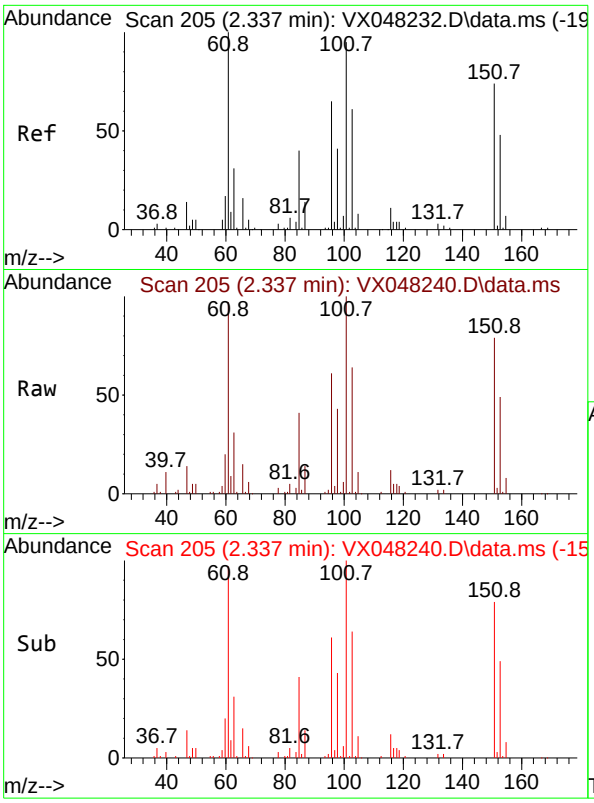


#8
Diethyl Ether
Concen: 19.540 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 74 Resp: 12617

Ion	Ratio	Lower	Upper
74	100		
45	95.2	50.0	149.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.302 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

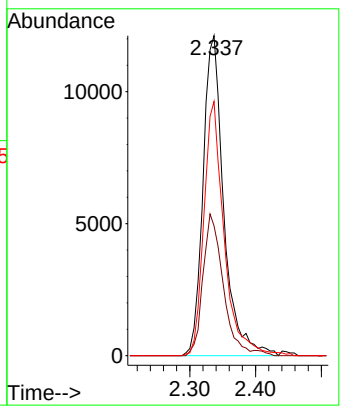
Tgt Ion:101 Resp: 2659

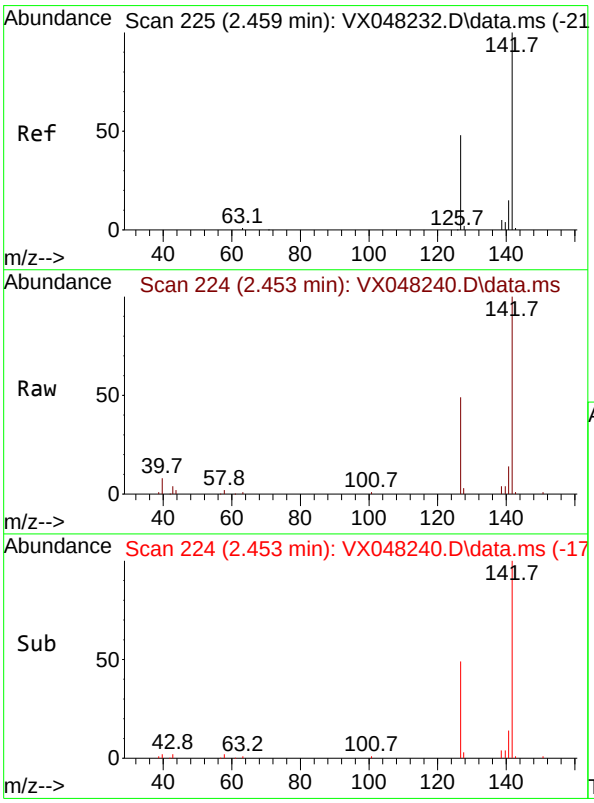
Ion	Ratio	Lower	Upper
101	100		
85	43.7	35.6	53.4
151	77.8	58.0	87.0

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

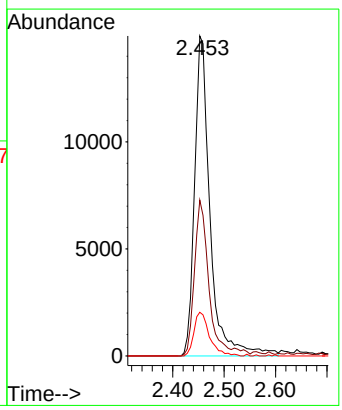


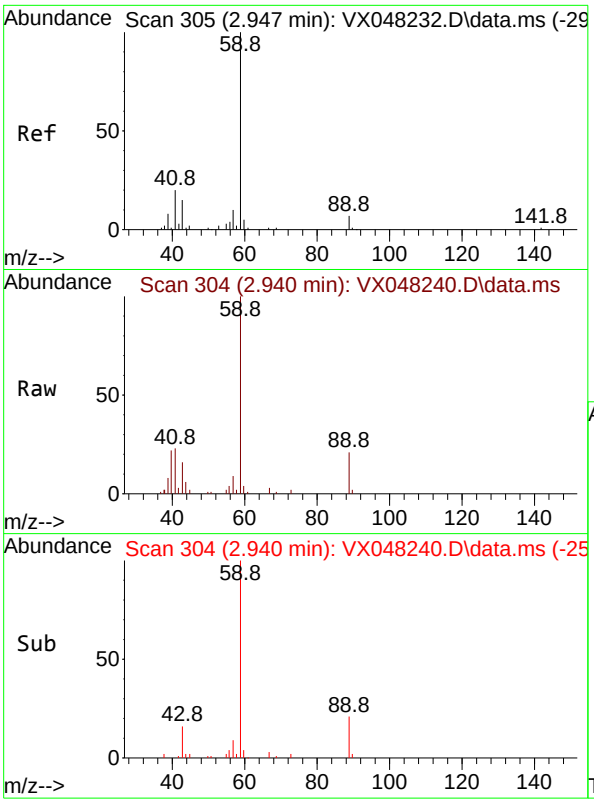


#10
Methyl Iodide
Concen: 17.138 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:142 Resp: 31308

Ion	Ratio	Lower	Upper
142	100		
127	46.2	38.5	57.7
141	13.7	11.6	17.4





#11
Tert butyl alcohol
Concen: 91.429 ug/l
RT: 2.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

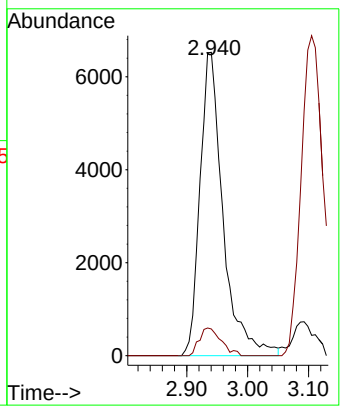
Tgt Ion: 59 Resp: 1713

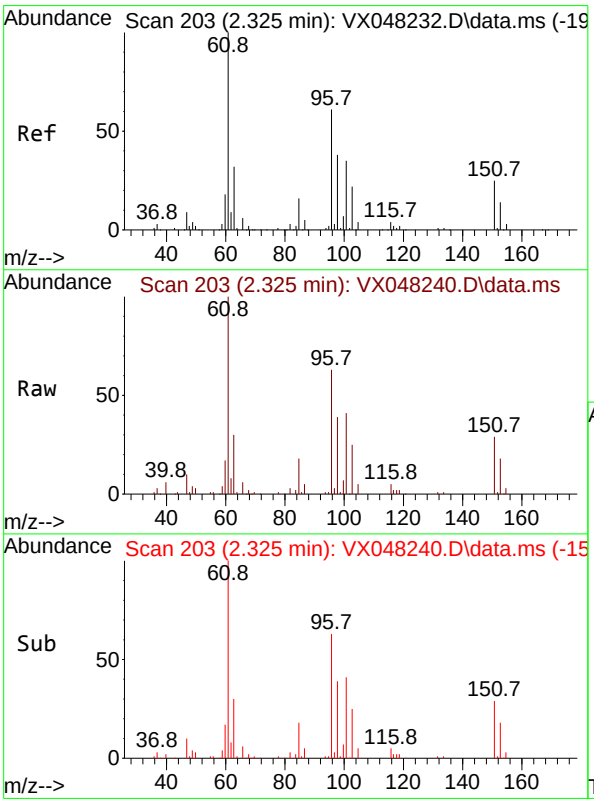
Ion	Ratio	Lower	Upper
59	100		
57	8.7	8.2	12.4

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

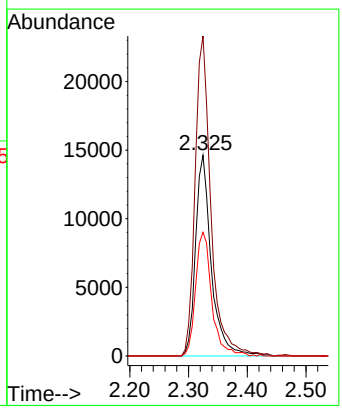


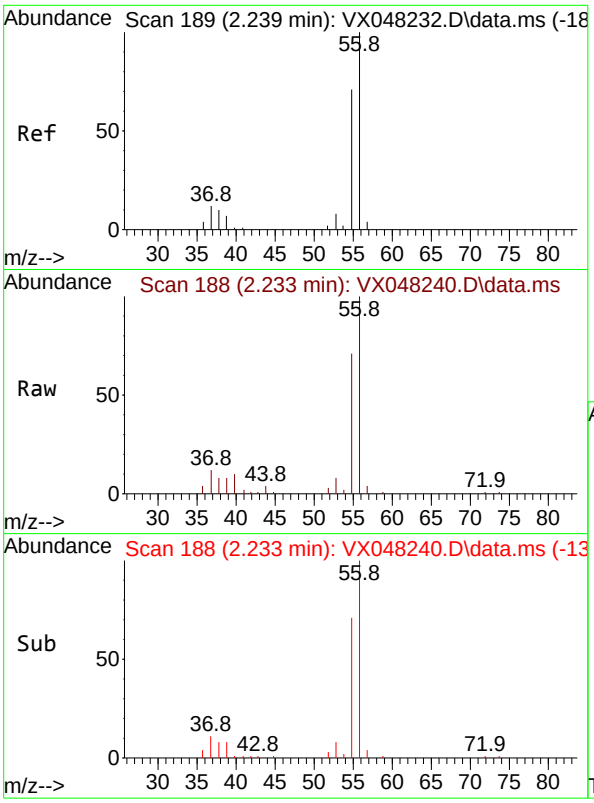


#12
1,1-Dichloroethene
Concen: 19.324 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 96 Resp: 27320

Ion	Ratio	Lower	Upper
96	100		
61	159.5	139.0	208.6
98	61.7	52.4	78.6

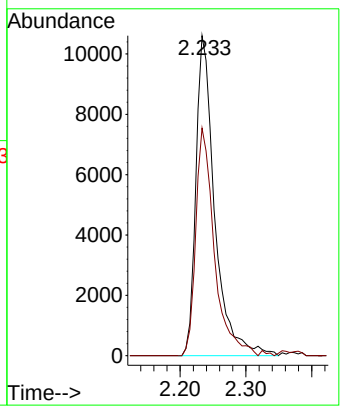




#13
Acrolein
Concen: 110.081 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 56 Resp: 2104

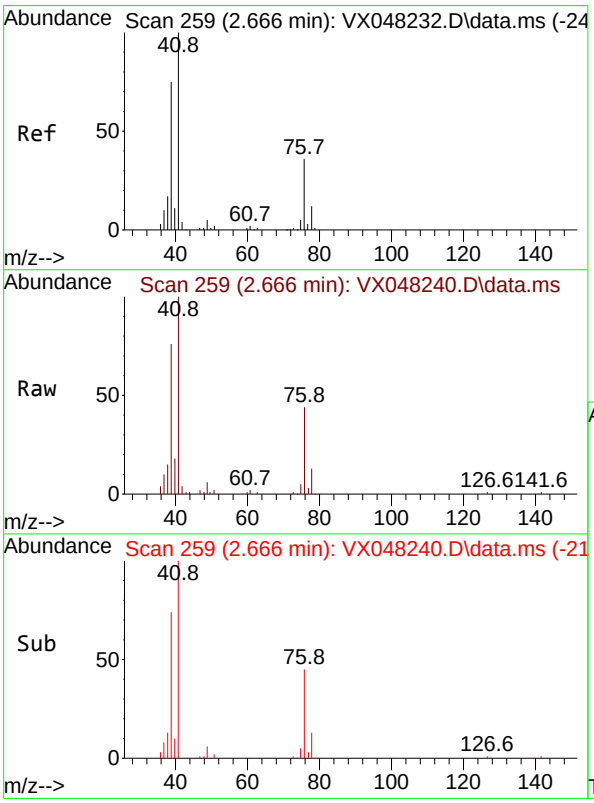
Ion	Ratio	Lower	Upper
56	100		
55	70.4	56.1	84.1



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

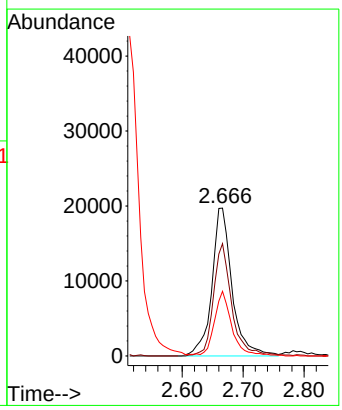
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

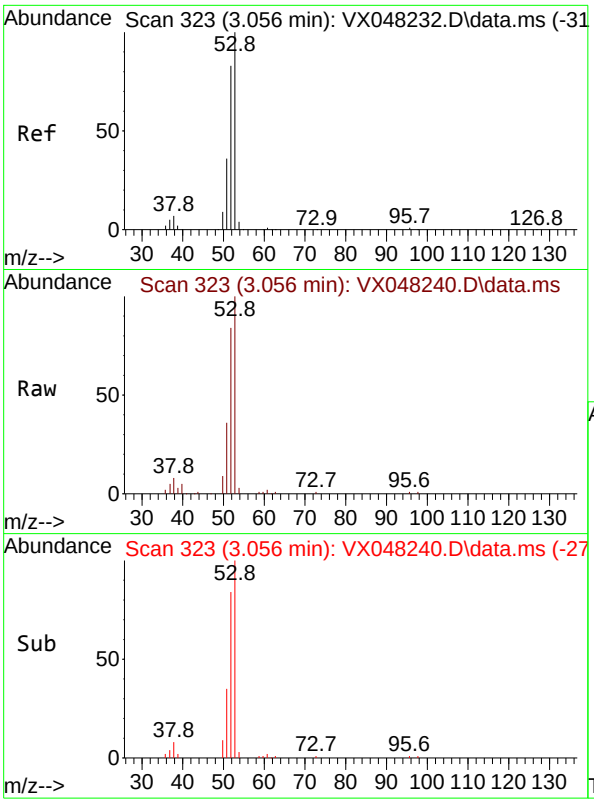


#14
Allyl chloride
Concen: 19.389 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 41 Resp: 45510

Ion	Ratio	Lower	Upper
41	100		
39	68.7	56.0	84.0
76	37.8	27.5	41.3





#15
Acrylonitrile
Concen: 93.873 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

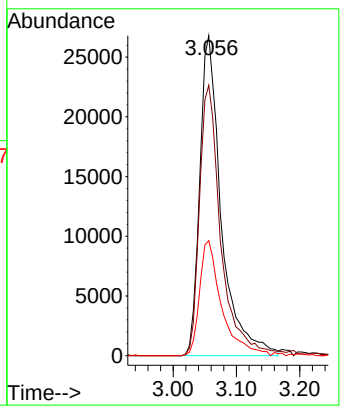
Tgt Ion: 53 Resp: 6345

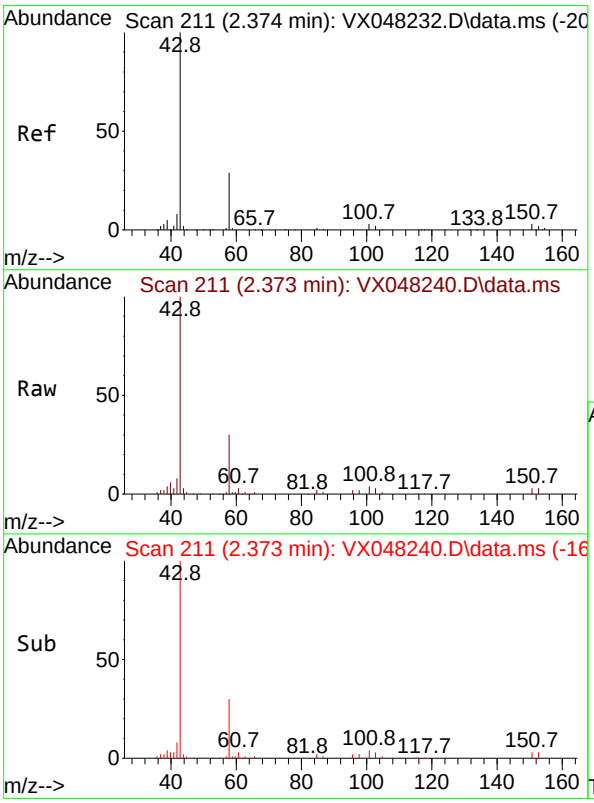
Ion	Ratio	Lower	Upper
53	100		
52	83.9	66.1	99.1
51	36.8	29.0	43.4

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

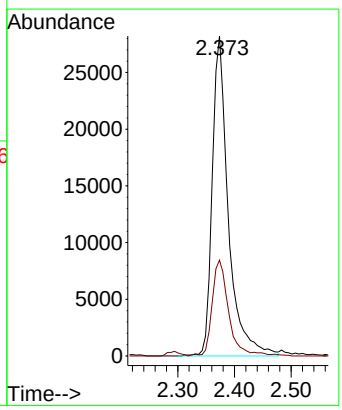


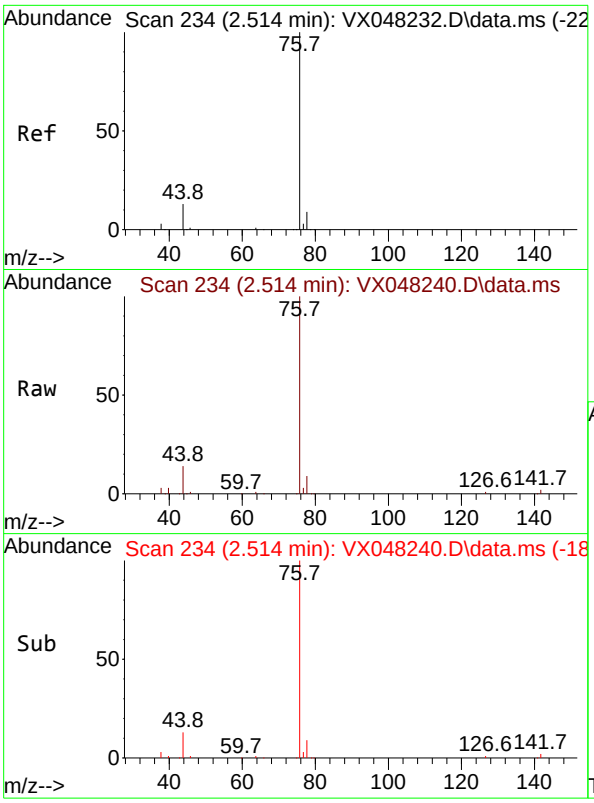


#16
Acetone
Concen: 85.745 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 43 Resp: 55537

Ion	Ratio	Lower	Upper
43	100		
58	29.9	23.4	35.2





#17
Carbon Disulfide
Concen: 17.877 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

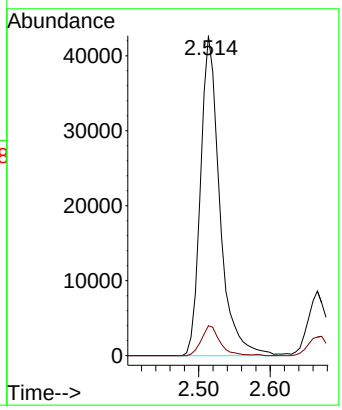
Tgt Ion: 76 Resp: 7965

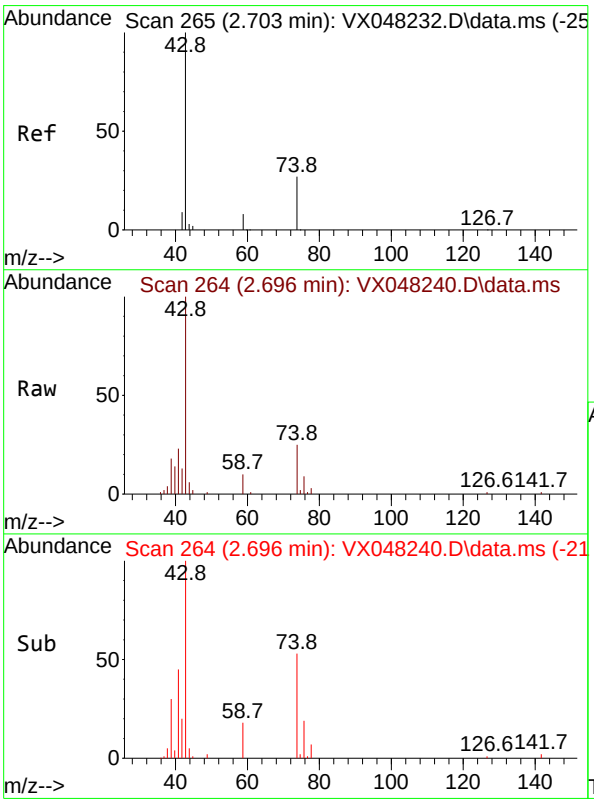
Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.1	10.7

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

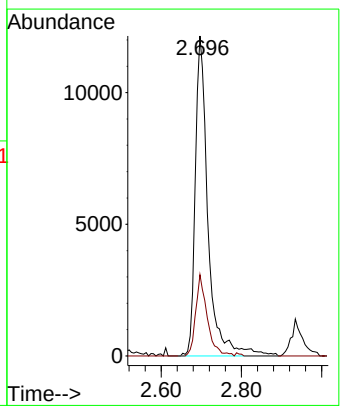


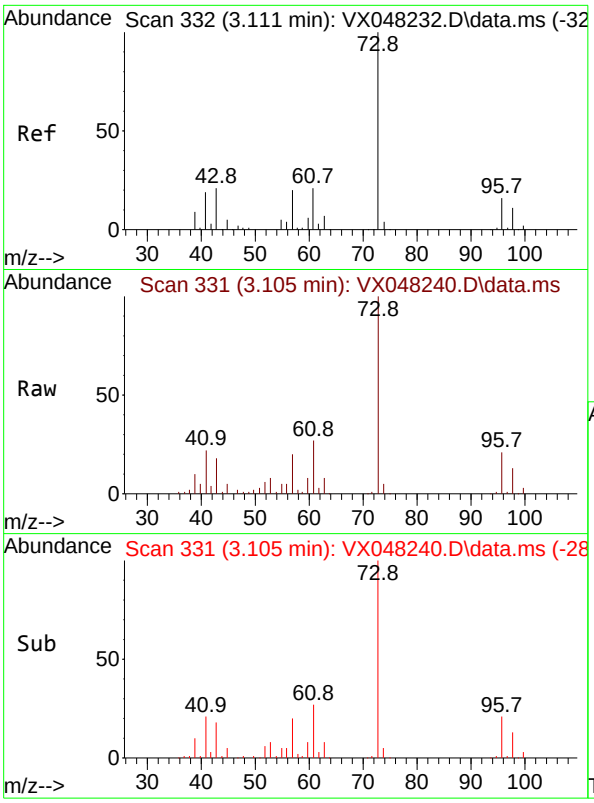


#18
Methyl Acetate
Concen: 19.748 ug/l
RT: 2.696 min Scan# 264
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 43 Resp: 26712

Ion	Ratio	Lower	Upper
43	100		
74	23.0	17.5	26.3

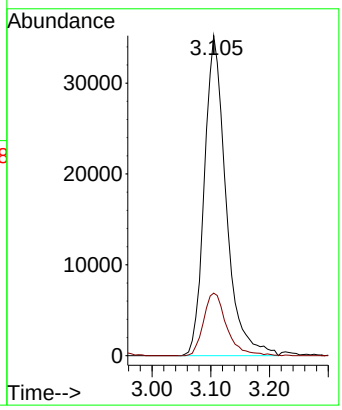




#19
Methyl tert-butyl Ether
Concen: 18.738 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 73 Resp: 9037

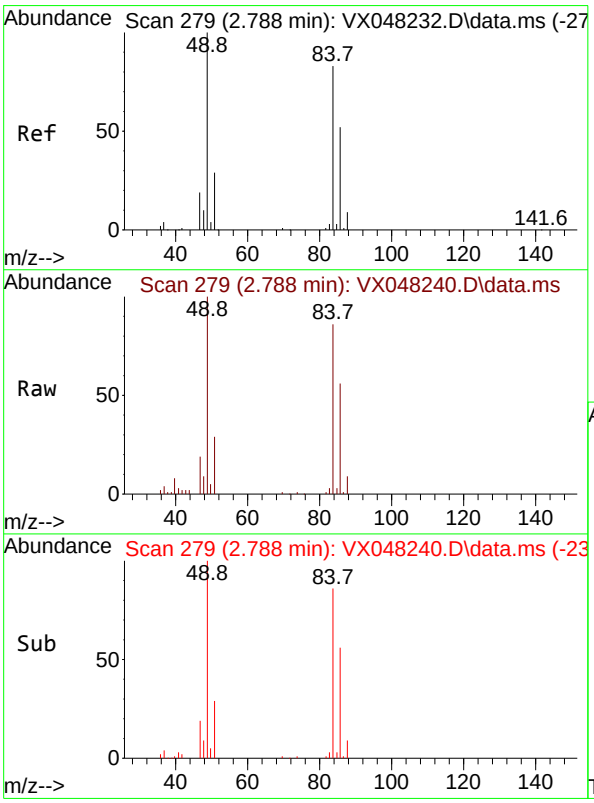
Ion	Ratio	Lower	Upper
73	100		
57	19.5	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

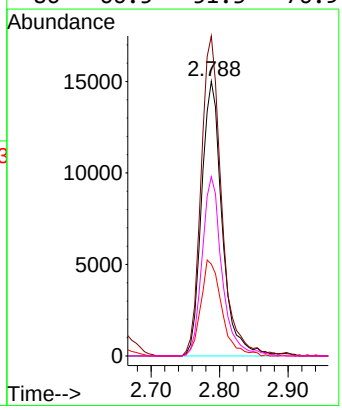
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

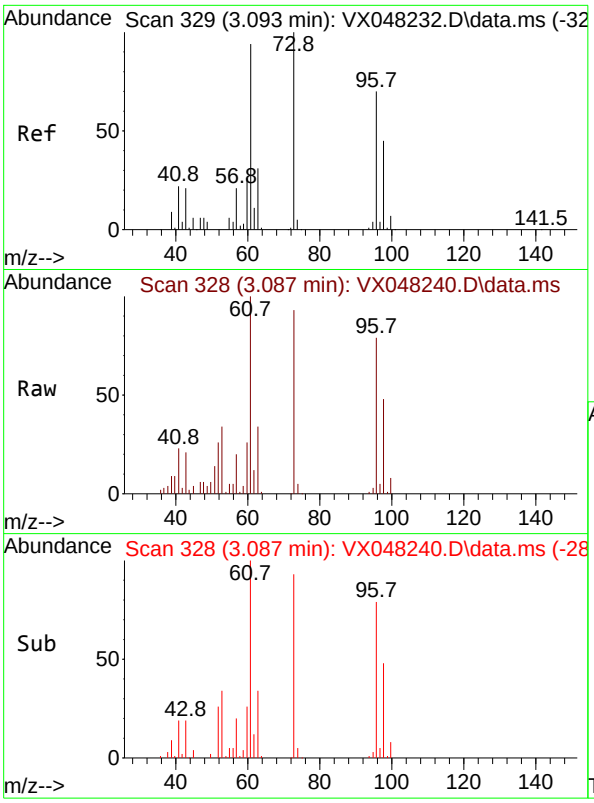


#20
Methylene Chloride
Concen: 19.934 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 84 Resp: 31460

Ion	Ratio	Lower	Upper
84	100		
49	116.5	104.1	156.1
51	33.4	31.3	46.9
86	66.5	51.3	76.9





#21
trans-1,2-Dichloroethene
Concen: 19.468 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

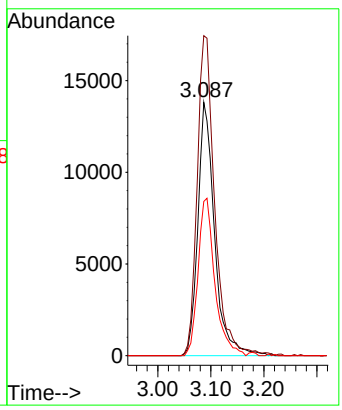
Tgt Ion: 96 Resp: 3023

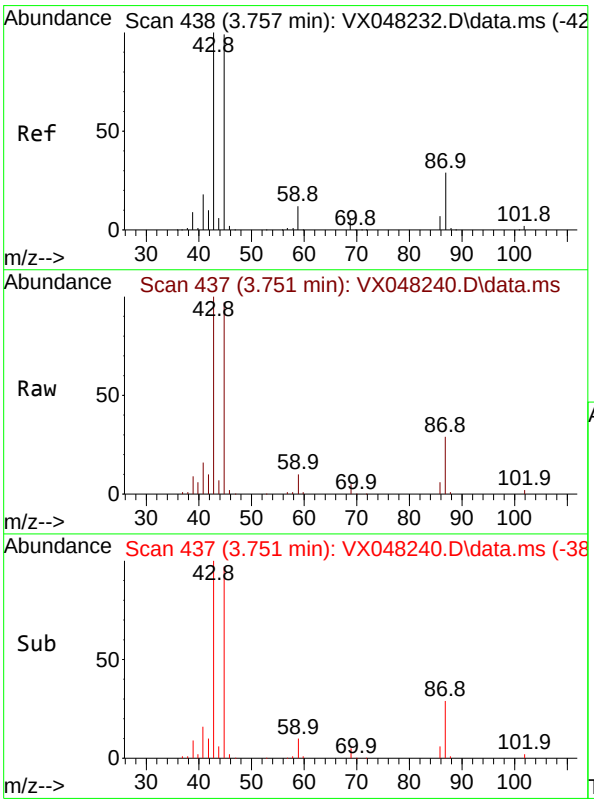
Ion	Ratio	Lower	Upper
96	100		
61	126.3	111.9	167.9
98	60.9	51.2	76.8

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

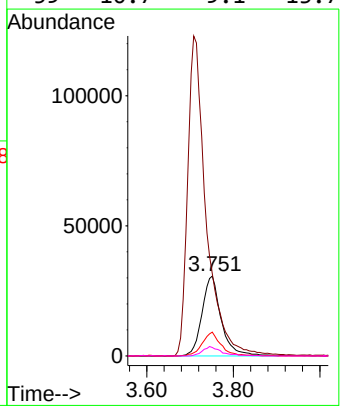


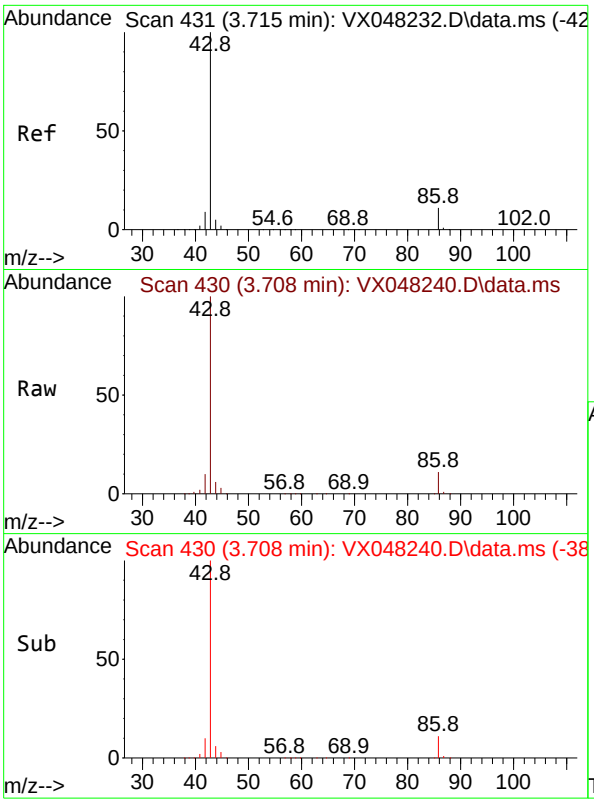


#22
Diisopropyl ether
Concen: 20.141 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 45 Resp: 94293

Ion	Ratio	Lower	Upper
45	100		
43	101.4	89.8	134.8
87	29.8	20.6	31.0
59	10.7	9.1	13.7





#23
Vinyl Acetate
Concen: 98.349 ug/l
RT: 3.708 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

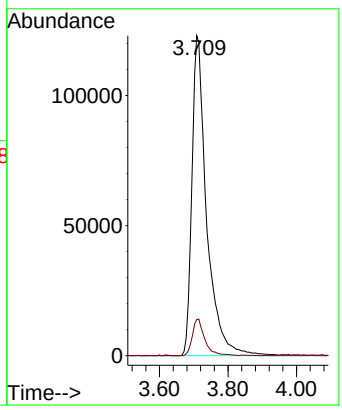
Tgt Ion: 43 Resp: 36779

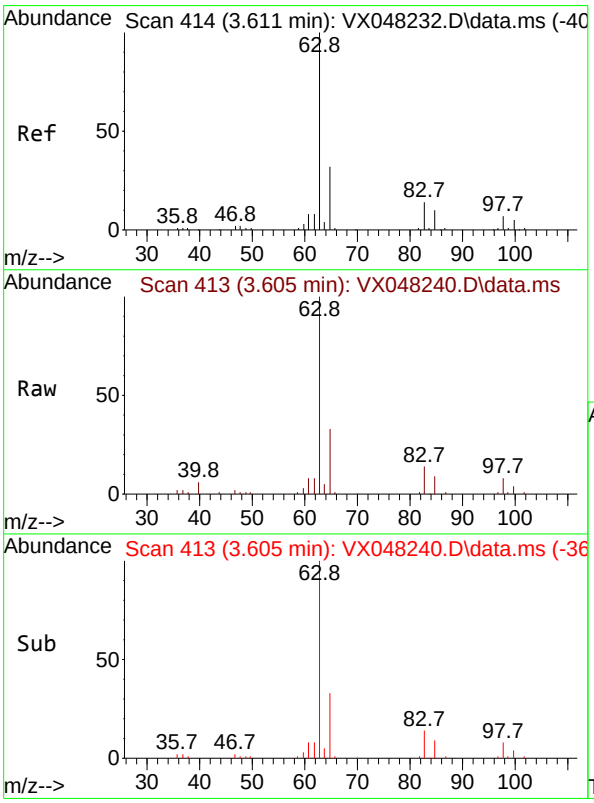
Ion	Ratio	Lower	Upper
43	100		
86	11.3	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

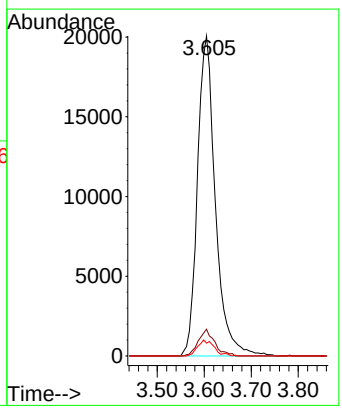


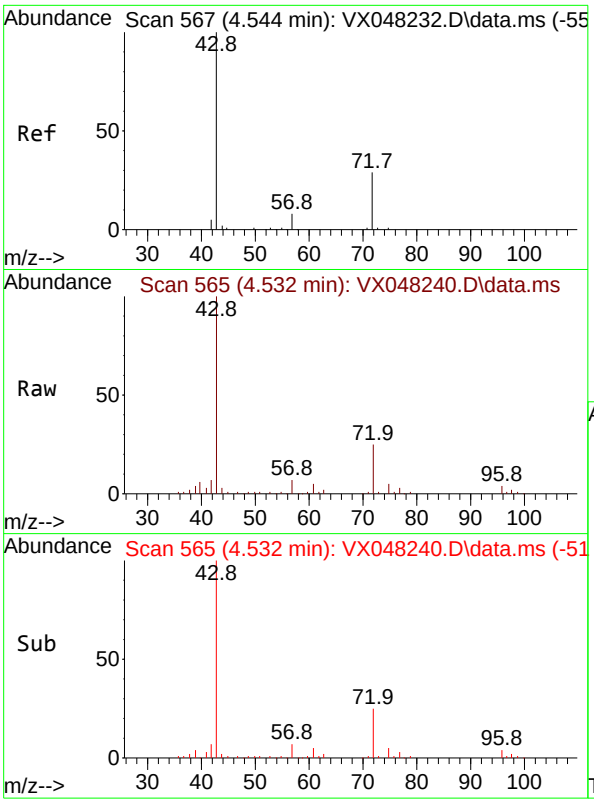


#24
1,1-Dichloroethane
Concen: 18.769 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 63 Resp: 53132

Ion	Ratio	Lower	Upper
63	100		
98	9.3	3.5	10.6
100	4.0	2.1	6.3





#25
2-Butanone
Concen: 91.980 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

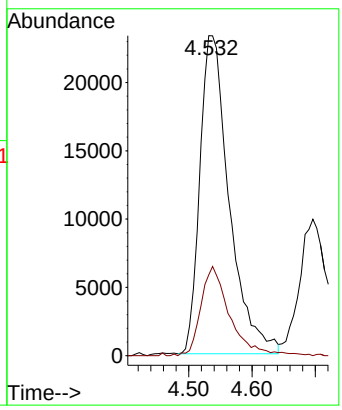
Tgt Ion: 43 Resp: 7540

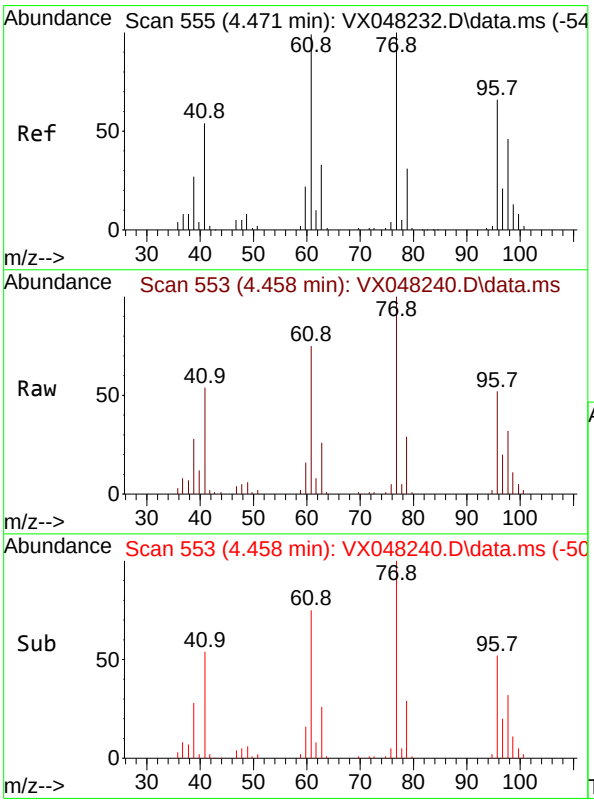
Ion	Ratio	Lower	Upper
43	100		
72	25.4	19.9	29.9

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

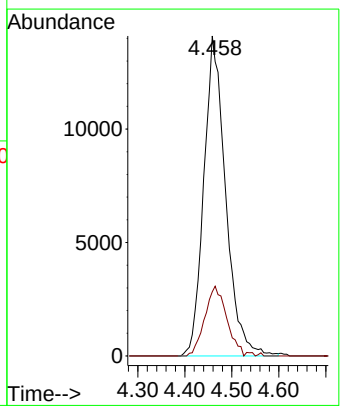


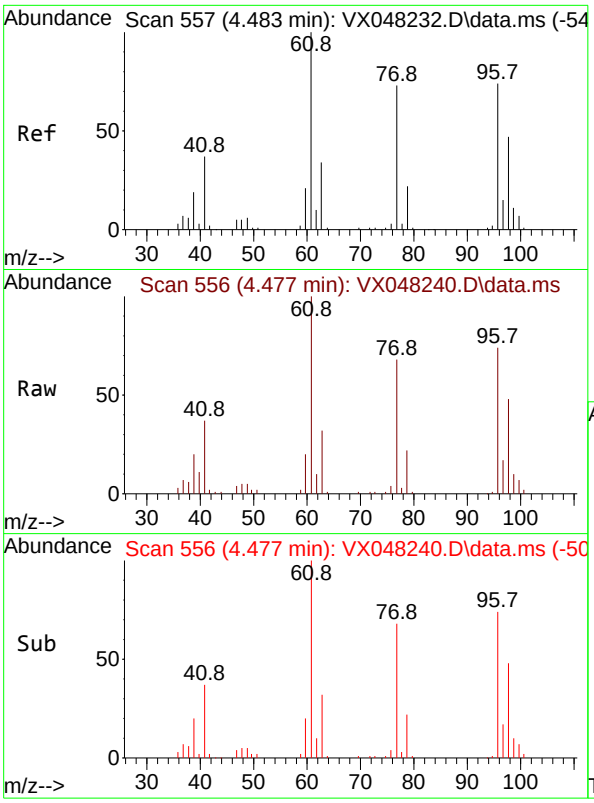


#26
2,2-Dichloropropane
Concen: 17.798 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 77 Resp: 45475

Ion	Ratio	Lower	Upper
77	100		
97	22.1	11.1	33.3

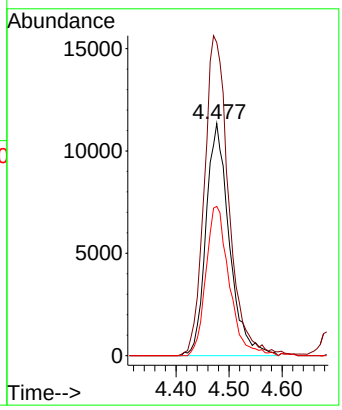




#27
cis-1,2-Dichloroethene
Concen: 19.122 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 96 Resp: 3465

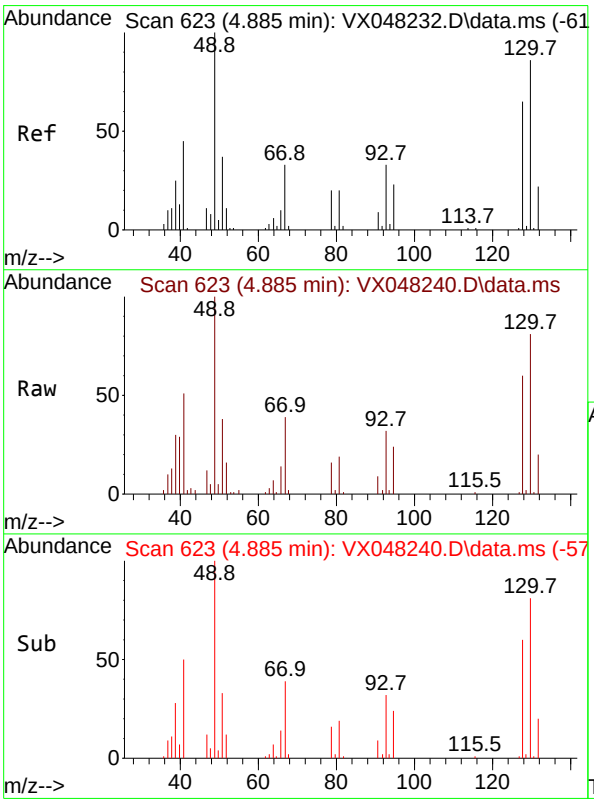
Ion	Ratio	Lower	Upper
96	100		
61	144.5	0.0	294.2
98	64.3	0.0	128.4



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

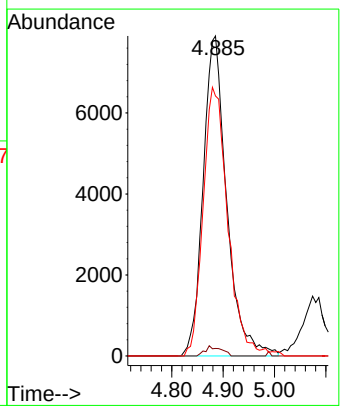
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

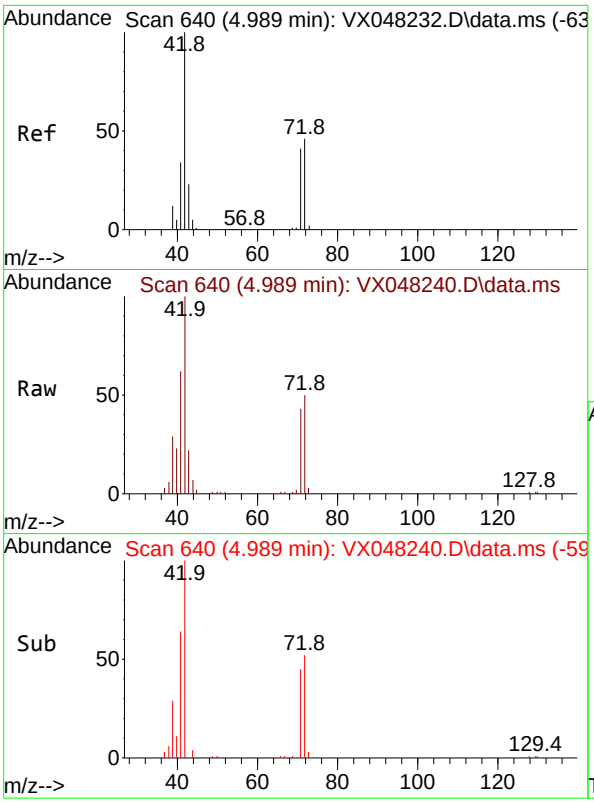


#28
Bromochloromethane
Concen: 21.434 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 49 Resp: 25158

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.4
130	88.3	59.3	88.9





#29
Tetrahydrofuran
Concen: 94.500 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

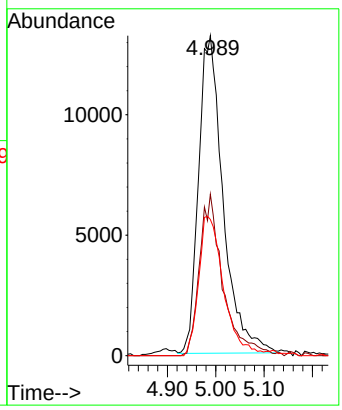
Tgt Ion: 42 Resp: 4639

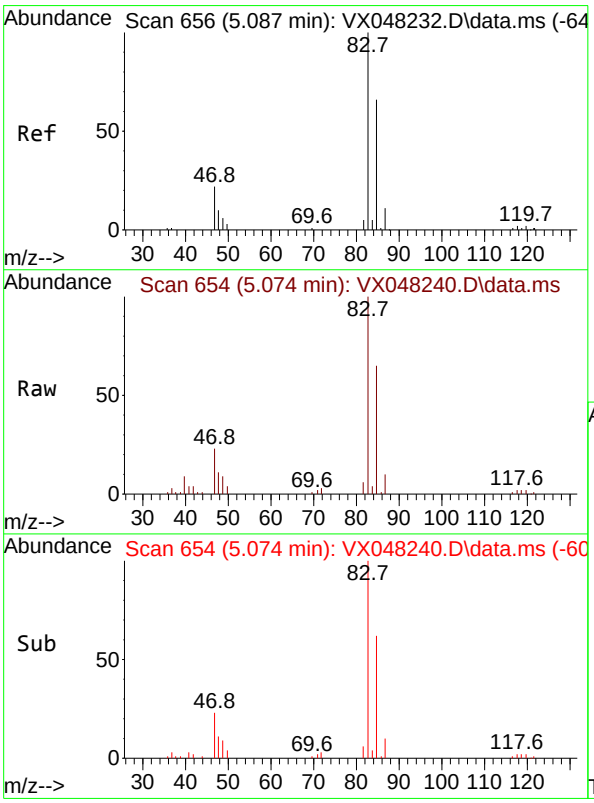
Ion	Ratio	Lower	Upper
42	100		
72	48.5	35.3	52.9
71	44.5	32.2	48.4

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

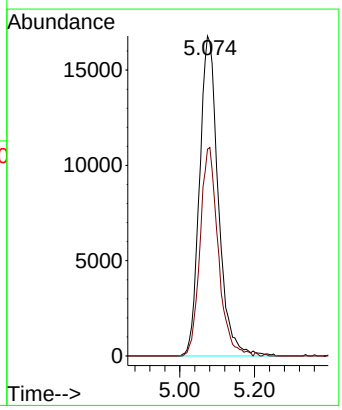


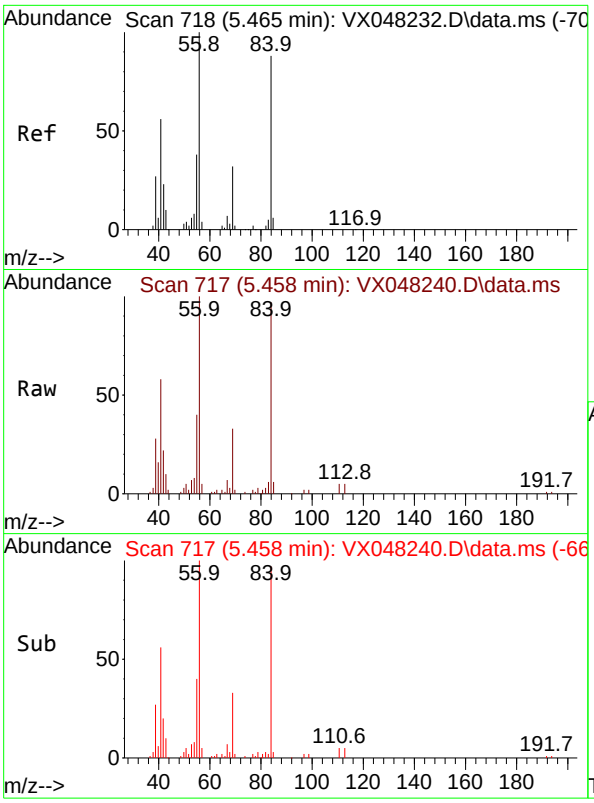


#30
Chloroform
Concen: 19.287 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 83 Resp: 58330

Ion	Ratio	Lower	Upper
83	100		
85	64.6	50.1	75.1

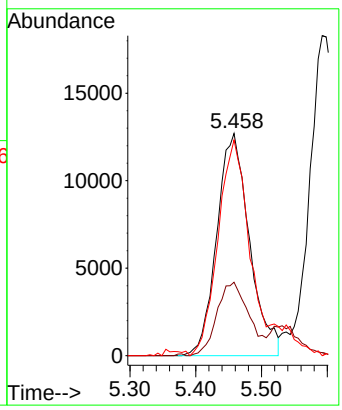




#31
Cyclohexane
Concen: 18.711 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 56 Resp: 4385

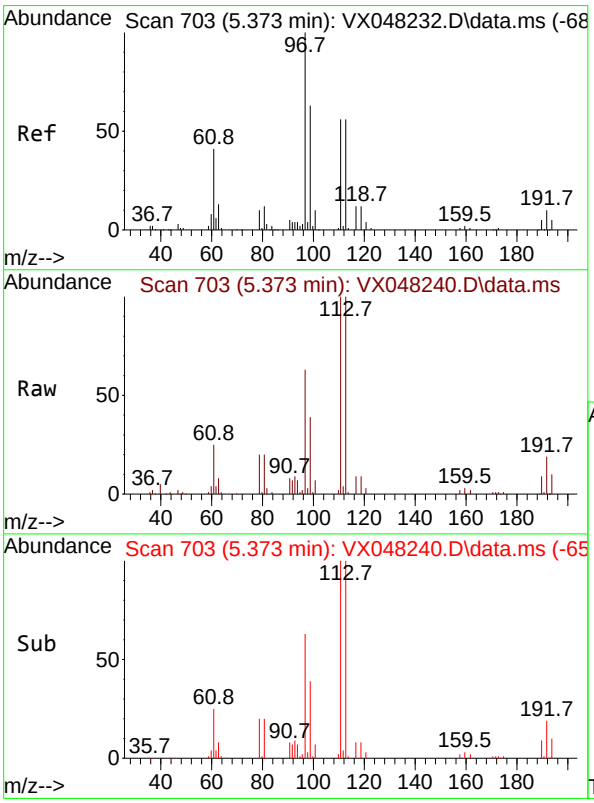
Ion	Ratio	Lower	Upper
56	100		
69	32.4	23.0	34.6
84	95.2	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

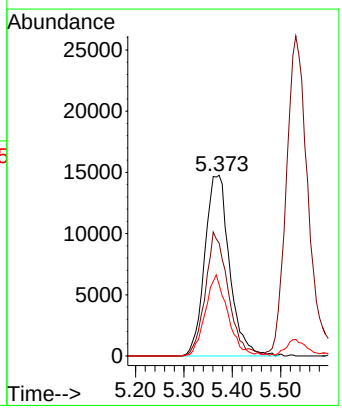
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

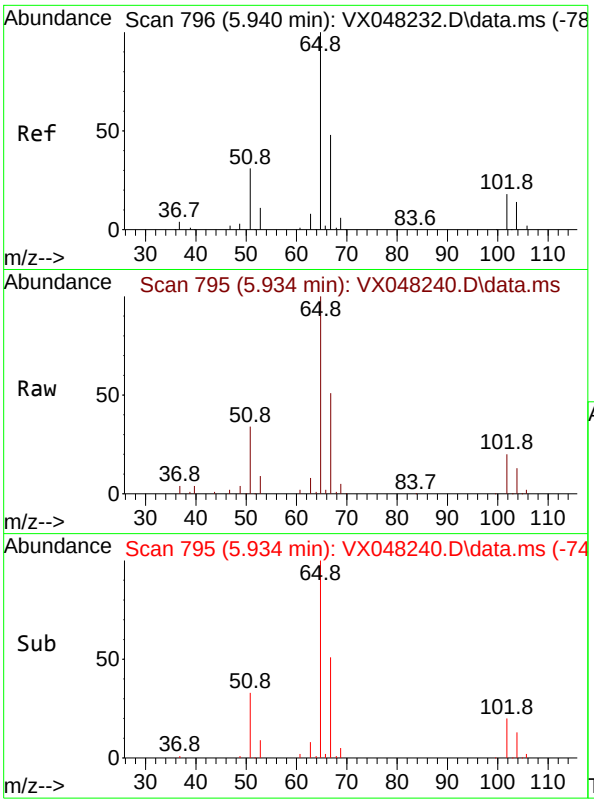


#32
1,1,1-Trichloroethane
Concen: 18.824 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 97 Resp: 52467

Ion	Ratio	Lower	Upper
97	100		
99	63.3	51.7	77.5
61	41.1	34.8	52.2





#33
1,2-Dichloroethane-d4
Concen: 51.728 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

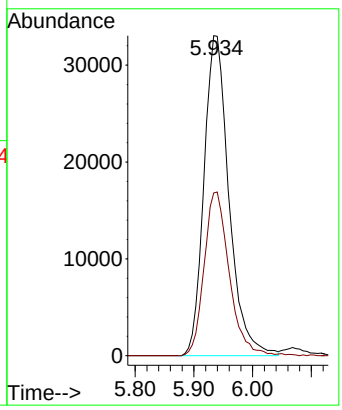
Tgt Ion: 65 Resp: 9766

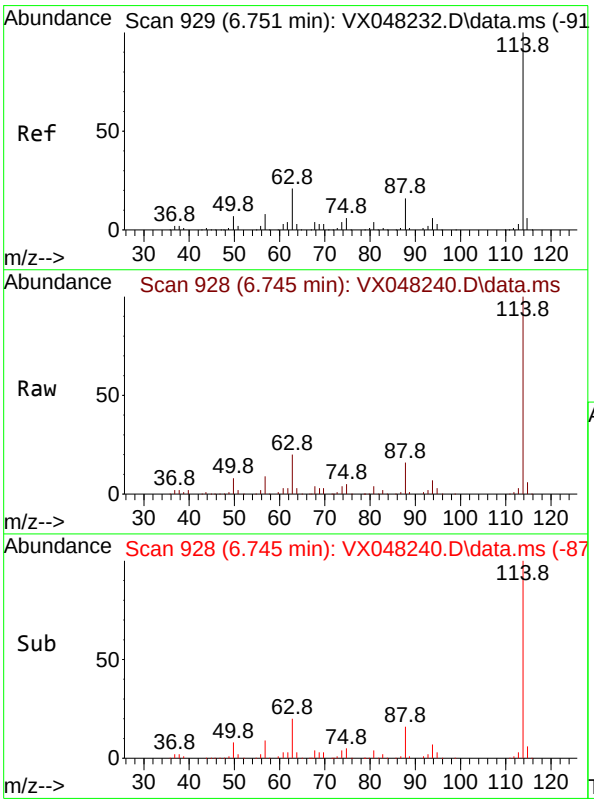
Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	105.0

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

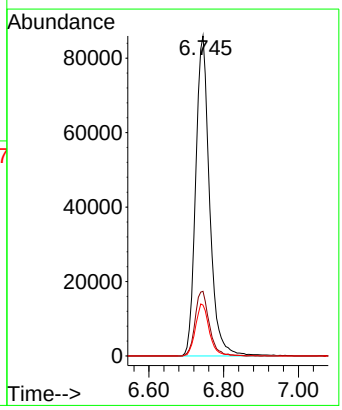


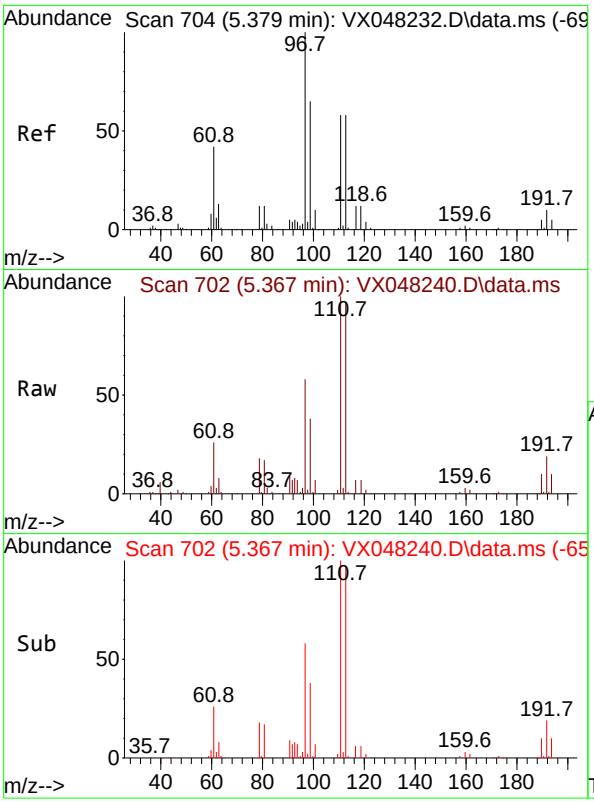


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:114 Resp: 221833

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	43.2
88	15.9	0.0	33.6

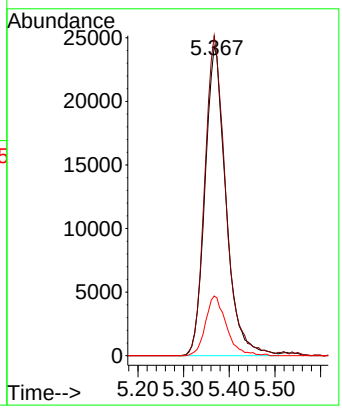




#35
Dibromofluoromethane
Concen: 51.237 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:113 Resp: 7759

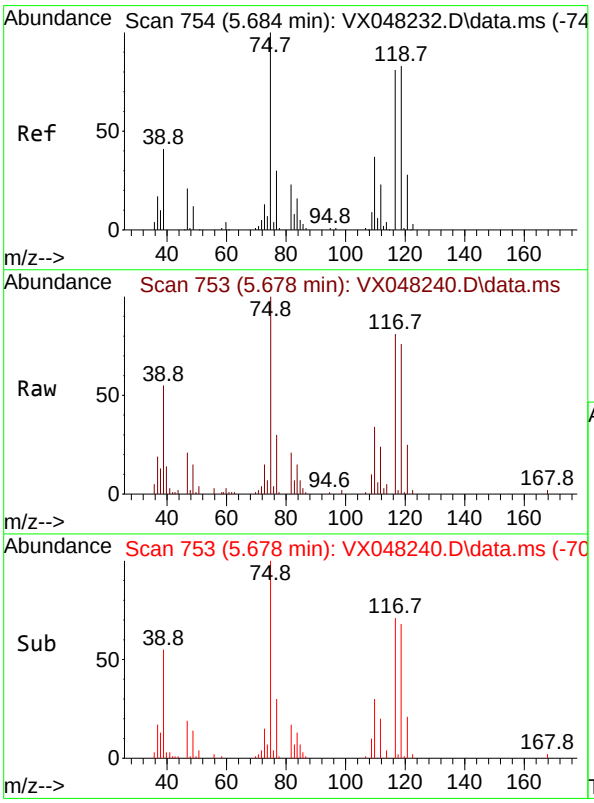
Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.2	123.4
192	19.2	15.1	22.7



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

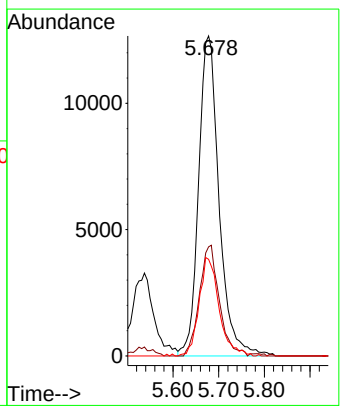
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

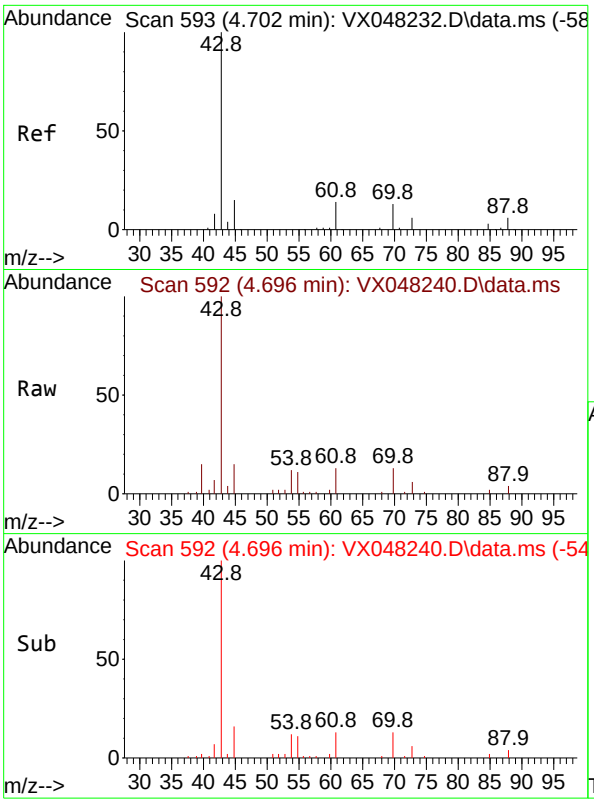


#36
1,1-Dichloropropene
Concen: 18.319 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 75 Resp: 39432

Ion	Ratio	Lower	Upper
75	100		
110	33.5	17.7	53.1
77	30.0	24.3	36.5





#37
Ethyl Acetate
Concen: 17.952 ug/l
RT: 4.696 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

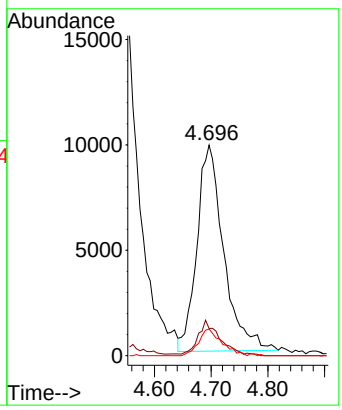
Tgt Ion: 43 Resp: 3203

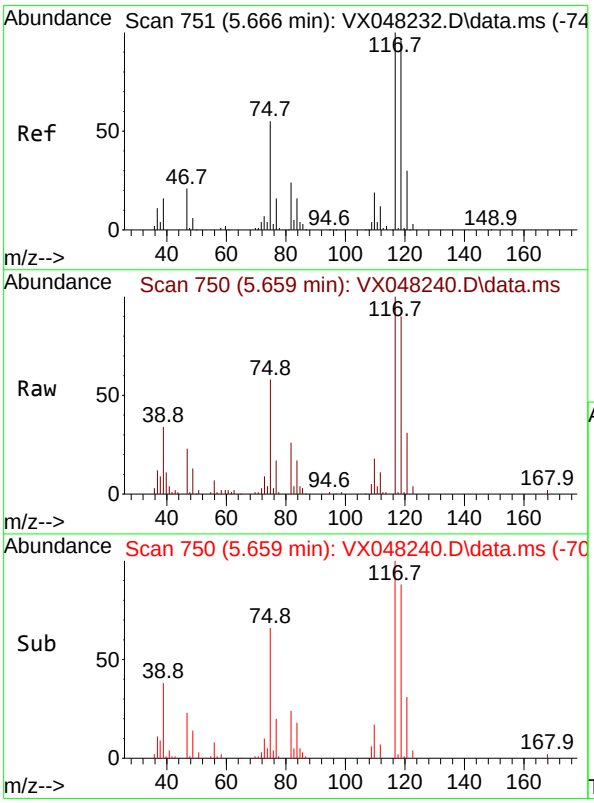
Ion	Ratio	Lower	Upper
43	100		
61	14.3	10.6	15.8
70	11.0	7.8	11.6

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

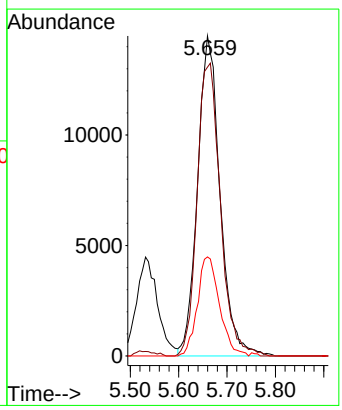


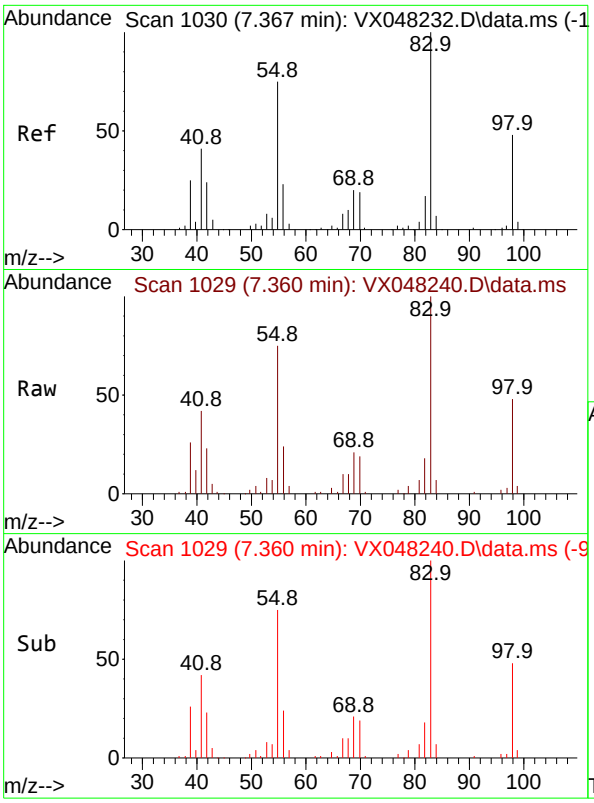


#38
Carbon Tetrachloride
Concen: 17.648 ug/l
RT: 5.659 min Scan# 750
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:117 Resp: 46868

Ion	Ratio	Lower	Upper
117	100		
119	90.2	77.2	115.8
121	31.0	24.8	37.2

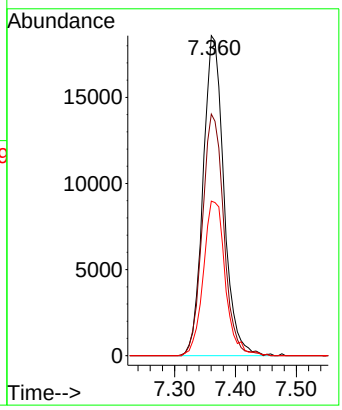




#39
Methylcyclohexane
Concen: 17.331 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 83 Resp: 4405

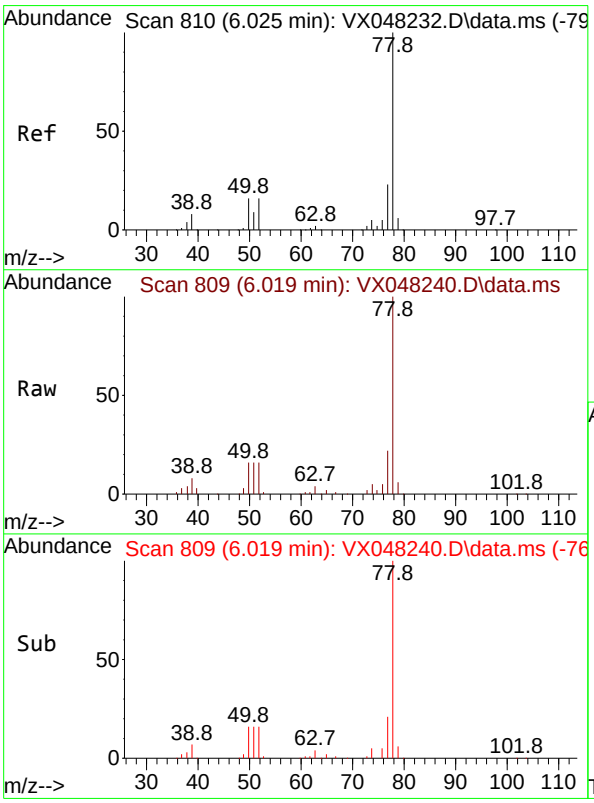
Ion	Ratio	Lower	Upper
83	100		
55	75.5	66.2	99.2
98	48.3	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

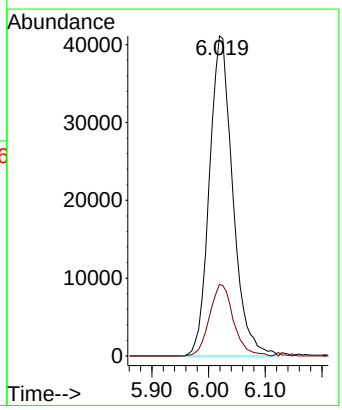
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

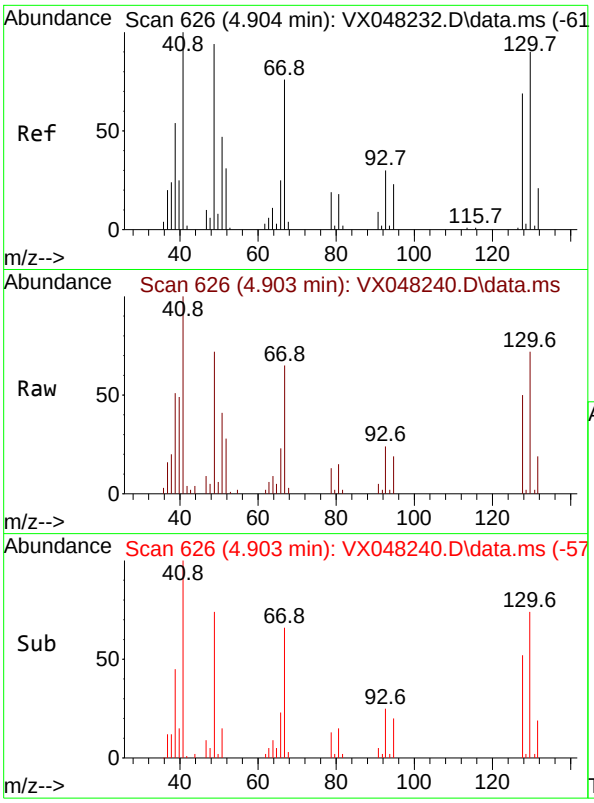


#40
Benzene
Concen: 18.847 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 78 Resp: 117785

Ion	Ratio	Lower	Upper
78	100		
77	22.4	19.3	28.9

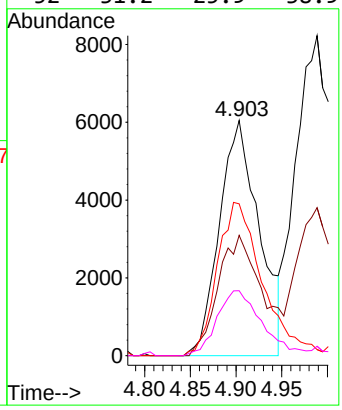




#41
Methacrylonitrile
Concen: 19.499 ug/l
RT: 4.903 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 41 Resp: 1827

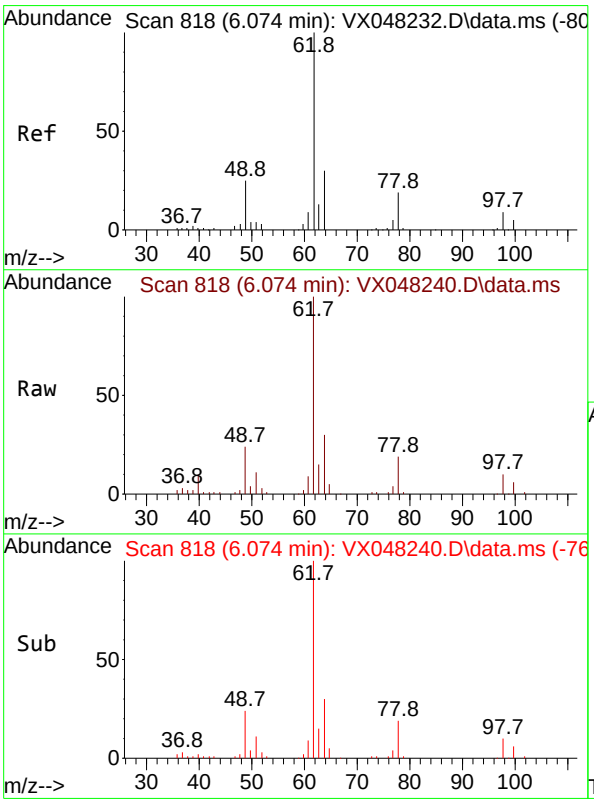
Ion	Ratio	Lower	Upper
41	100		
39	55.0	44.0	66.0
67	74.0	58.7	88.1
52	31.2	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

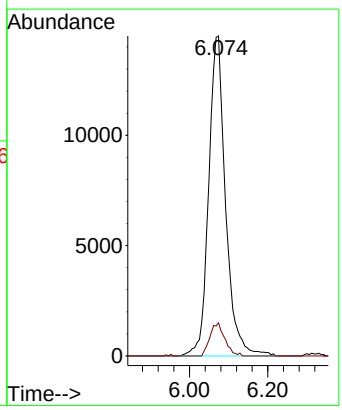
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

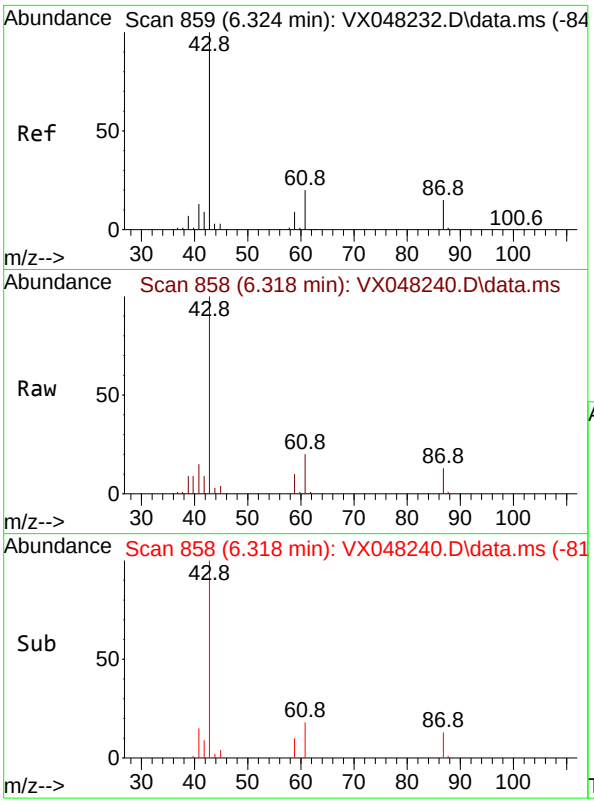


#42
1,2-Dichloroethane
Concen: 18.813 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 62 Resp: 43384

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	17.2





#43
Isopropyl Acetate
Concen: 18.935 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

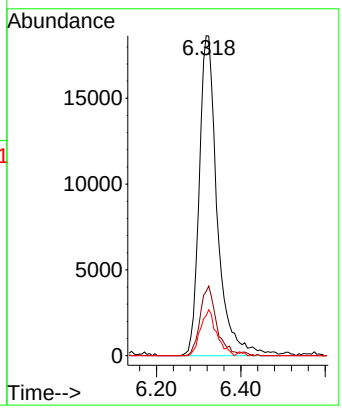
Tgt Ion: 43 Resp: 5549

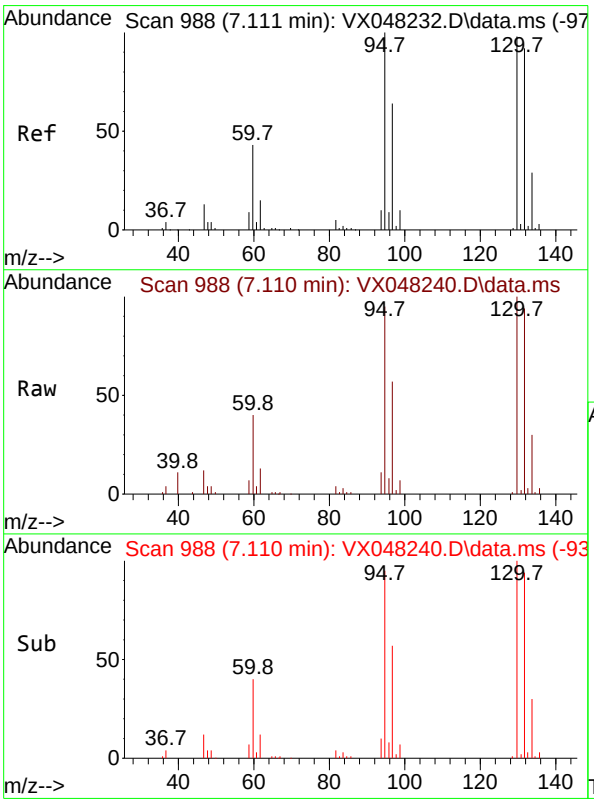
Ion	Ratio	Lower	Upper
43	100		
61	19.9	14.9	22.3
87	12.8	9.4	14.2

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

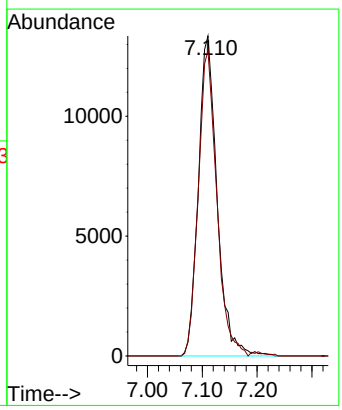


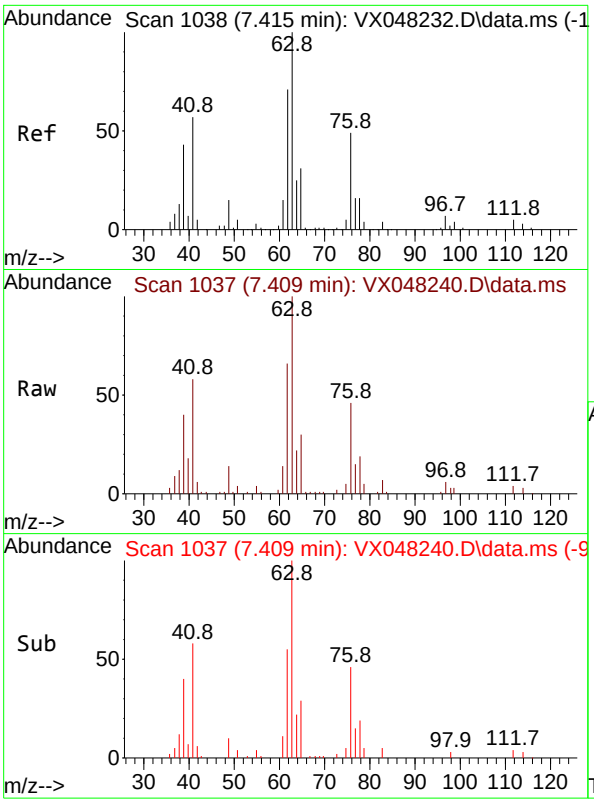


#44
Trichloroethene
Concen: 19.165 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:130 Resp: 31625

Ion	Ratio	Lower	Upper
130	100		
95	95.5	0.0	200.6

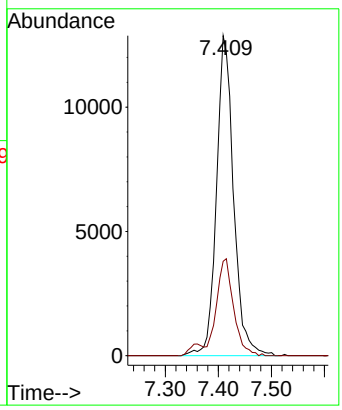




#45
1,2-Dichloropropane
Concen: 19.430 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 63 Resp: 2887

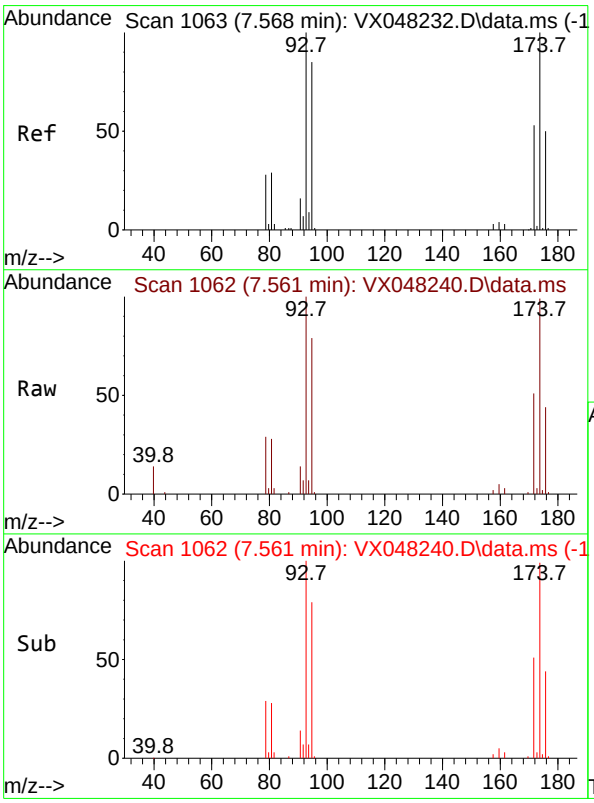
Ion	Ratio	Lower	Upper
63	100		
65	29.5	24.1	36.1



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

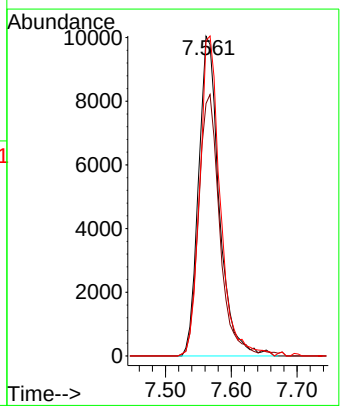
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

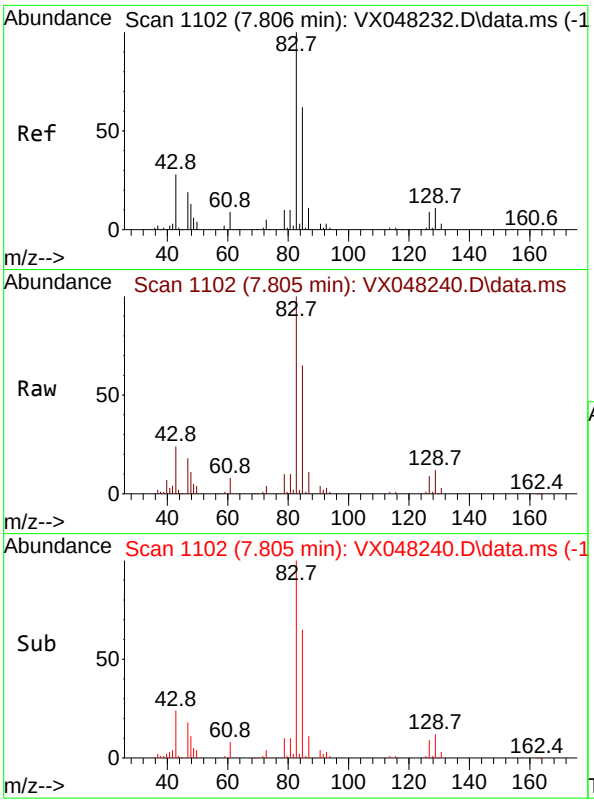


#46
Dibromomethane
Concen: 18.903 ug/l
RT: 7.561 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 93 Resp: 21882

Ion	Ratio	Lower	Upper
93	100		
95	83.1	65.9	98.9
174	99.3	71.7	107.5

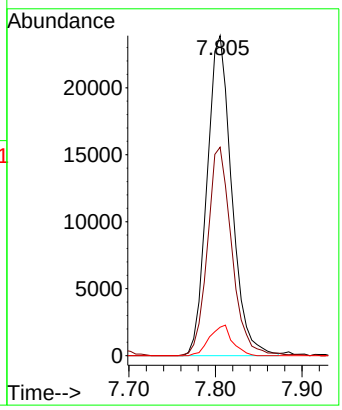




#47
Bromodichloromethane
Concen: 18.904 ug/l
RT: 7.805 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 83 Resp: 4724

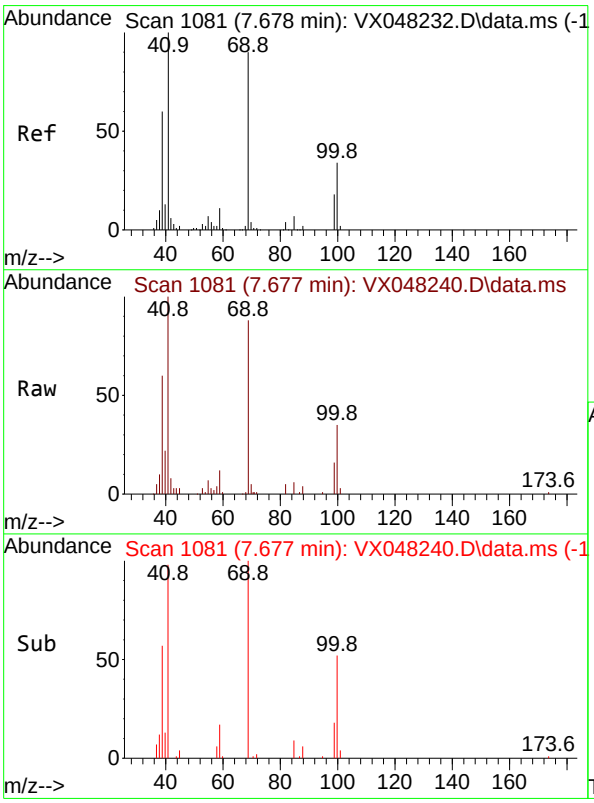
Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.2	78.4
127	8.9	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

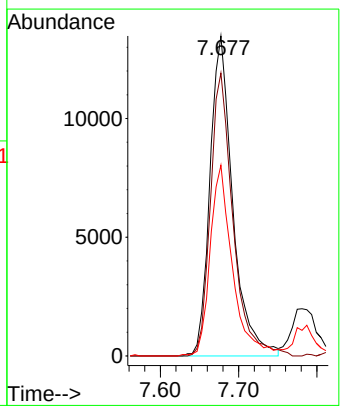
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

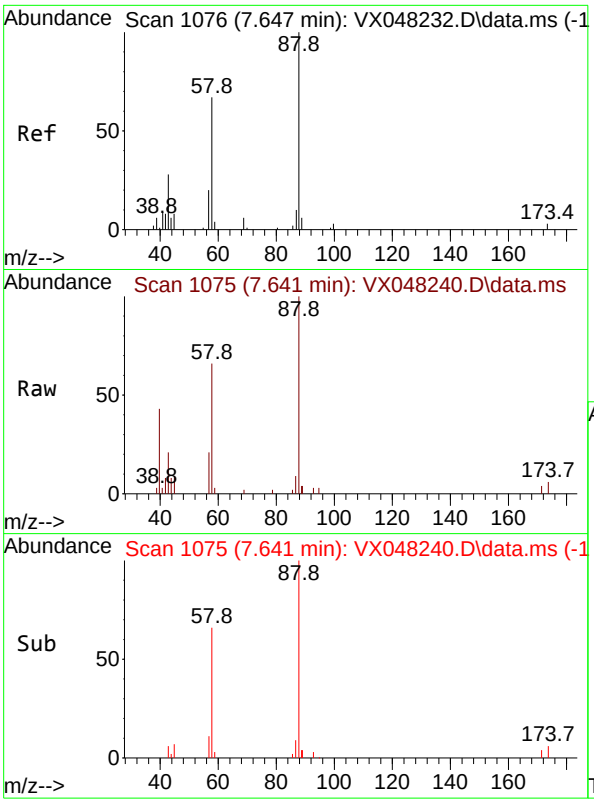


#48
Methyl methacrylate
Concen: 18.432 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 41 Resp: 27258

Ion	Ratio	Lower	Upper
41	100		
69	87.4	63.4	95.0
39	58.8	47.1	70.7





#49
1,4-Dioxane
Concen: 360.230 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

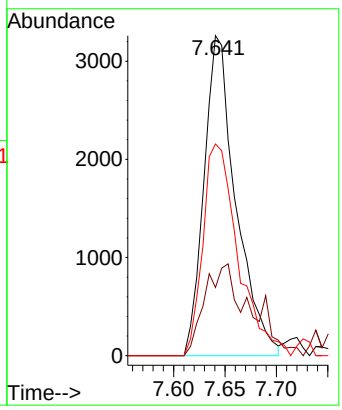
Tgt Ion: 88 Resp: 703

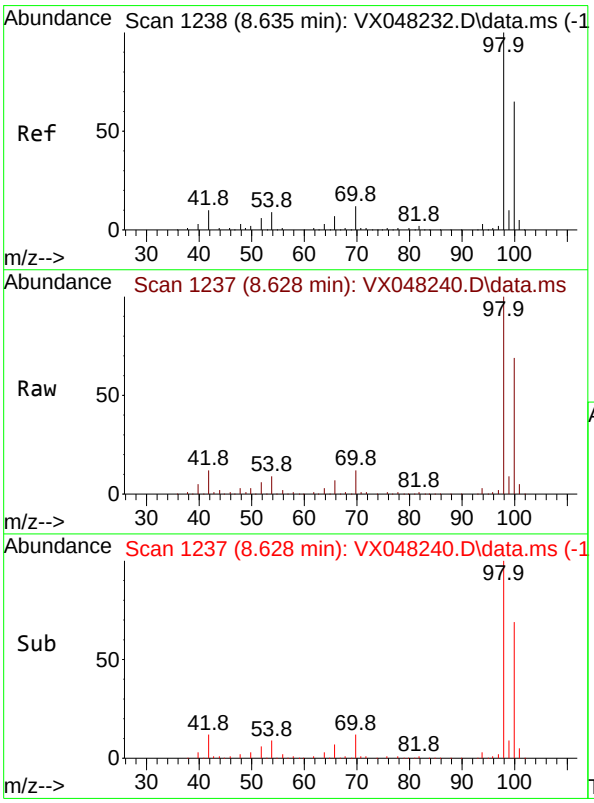
Ion	Ratio	Lower	Upper
88	100		
43	40.7	35.0	52.4
58	72.9	61.9	92.9

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

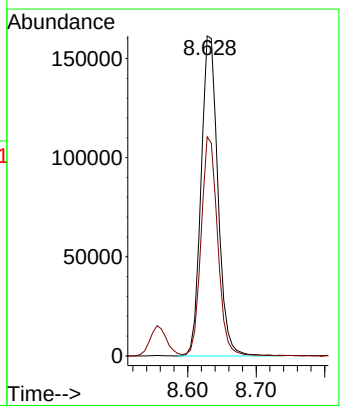


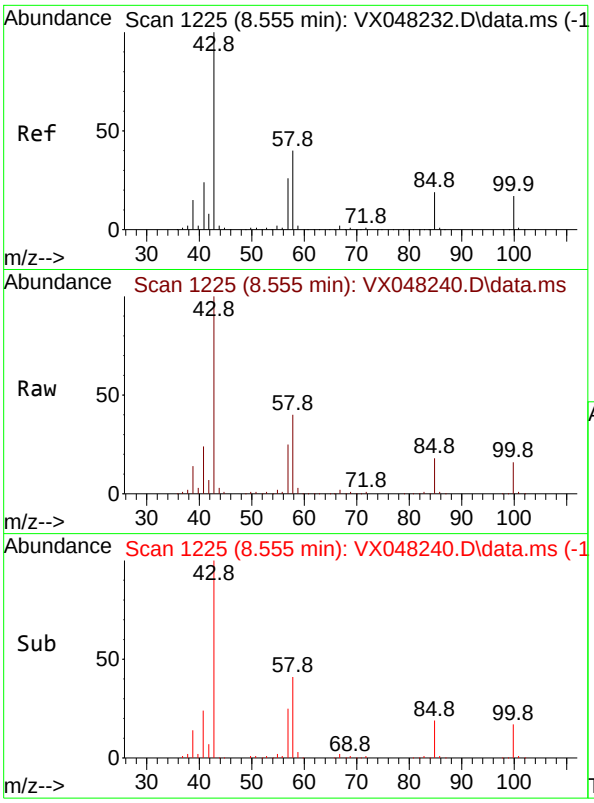


#50
Toluene-d8
Concen: 51.943 ug/l
RT: 8.628 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 98 Resp: 275727

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4





#51
4-Methyl-2-Pentanone
Concen: 94.846 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

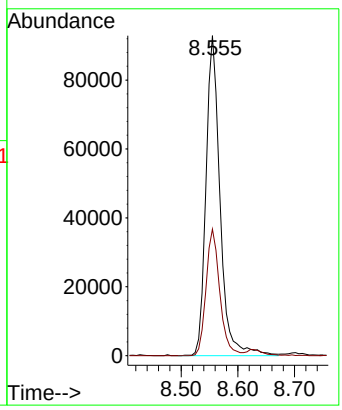
Tgt Ion: 43 Resp: 16026

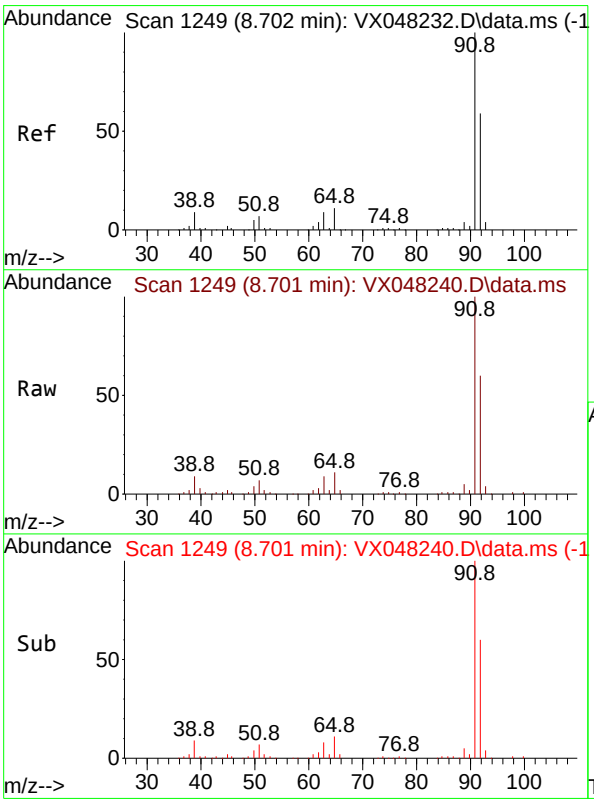
Ion	Ratio	Lower	Upper
43	100		
58	38.5	29.5	44.3

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

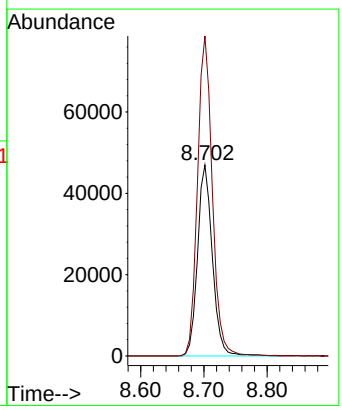


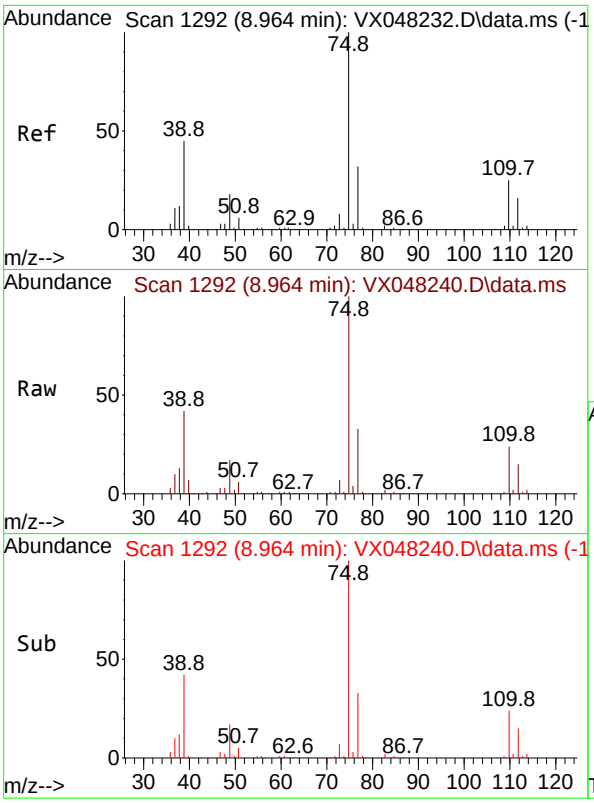


#52
Toluene
Concen: 19.263 ug/l
RT: 8.701 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 92 Resp: 76478

Ion	Ratio	Lower	Upper
92	100		
91	167.7	136.1	204.1

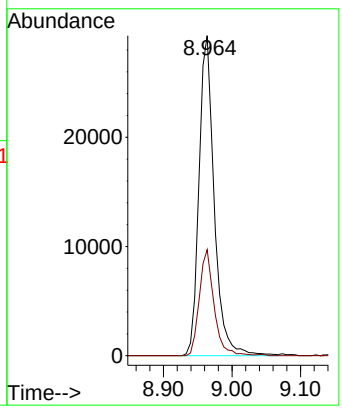




#53
t-1,3-Dichloropropene
Concen: 18.884 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 75 Resp: 4548

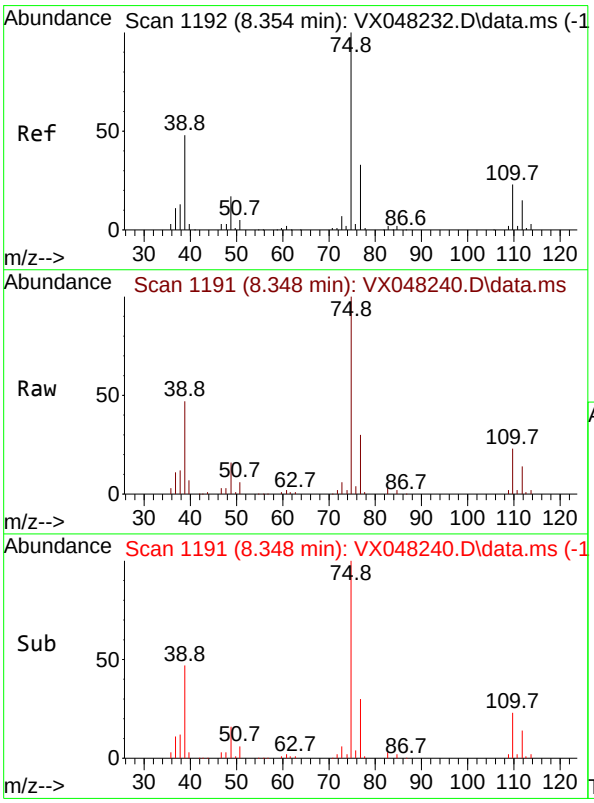
Ion	Ratio	Lower	Upper
75	100		
77	33.1	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

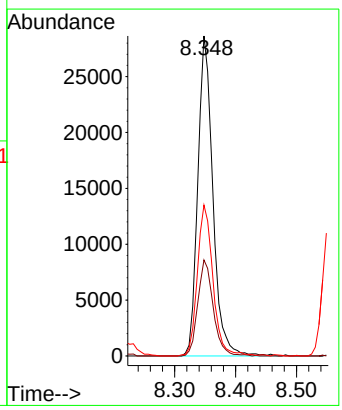
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

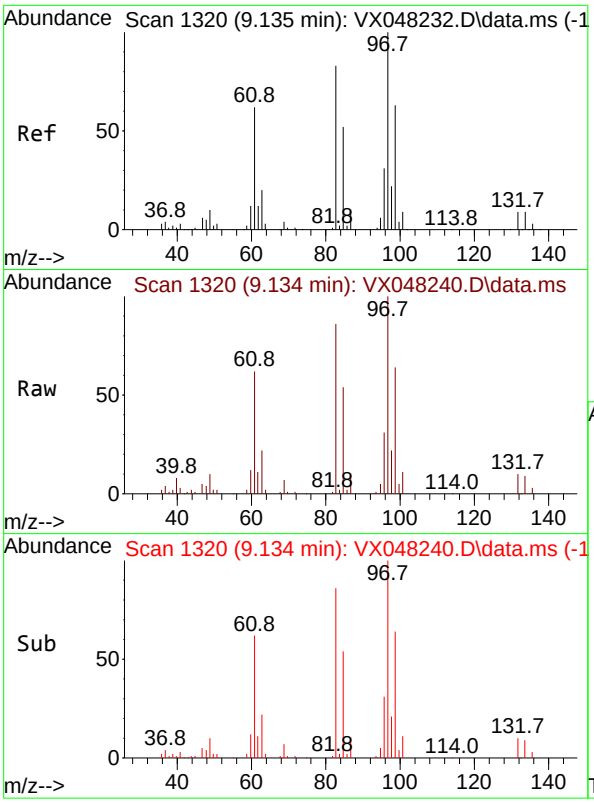


#54
cis-1,3-Dichloropropene
Concen: 18.953 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 75 Resp: 49253

Ion	Ratio	Lower	Upper
75	100		
77	30.0	24.9	37.3
39	54.3	42.6	64.0

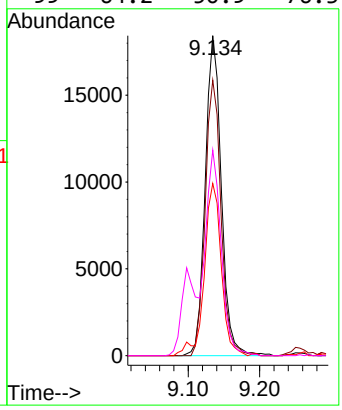




#55
1,1,2-Trichloroethane
Concen: 19.537 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 97 Resp: 2884

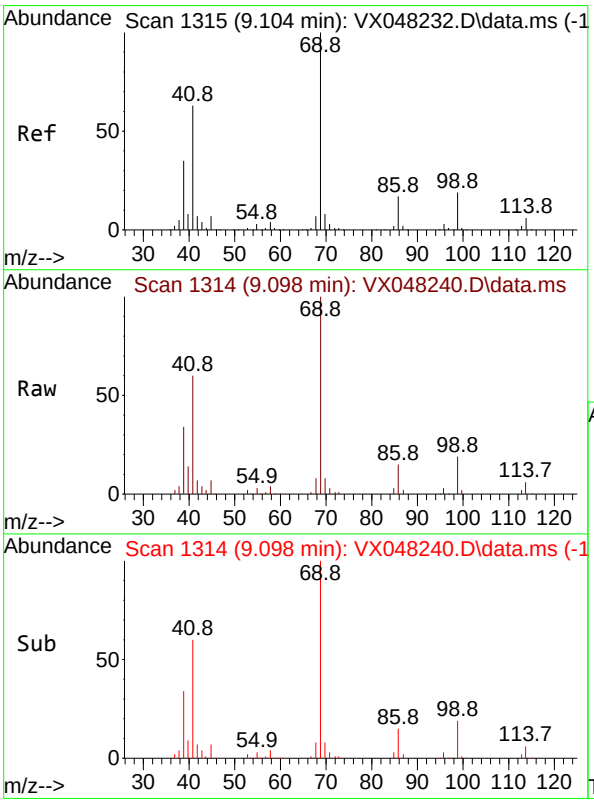
Ion	Ratio	Lower	Upper
97	100		
83	86.1	70.6	105.8
85	53.8	45.0	67.6
99	64.2	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

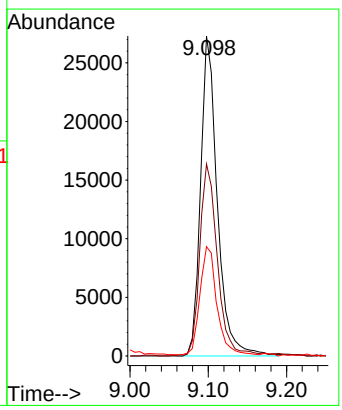
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

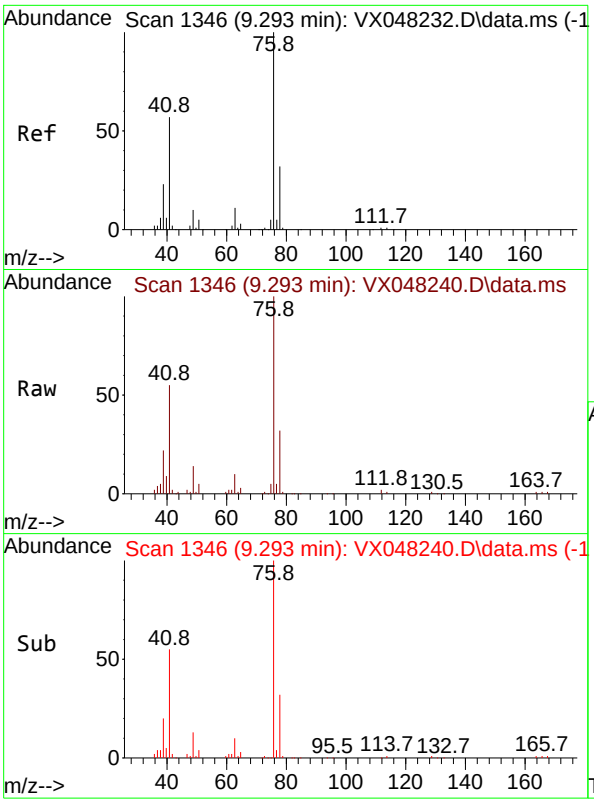


#56
Ethyl methacrylate
Concen: 18.774 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 69 Resp: 40543

Ion	Ratio	Lower	Upper
69	100		
41	64.0	56.0	84.0
39	34.2	31.6	47.4

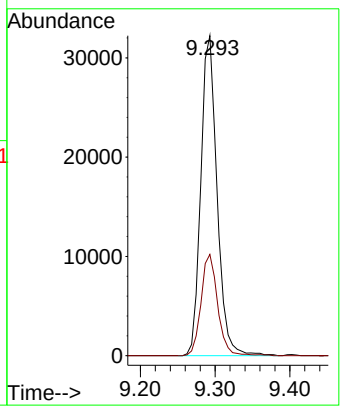




#57
1,3-Dichloropropane
Concen: 19.277 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 76 Resp: 4861

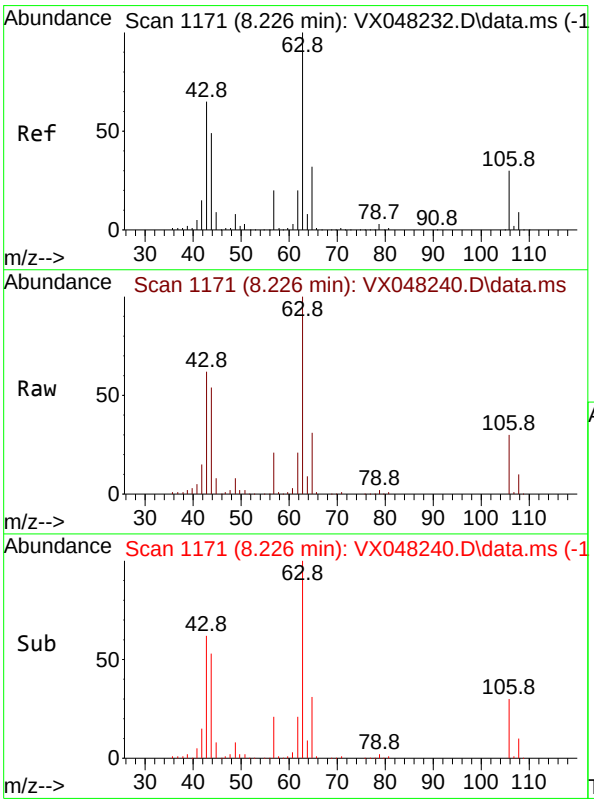
Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

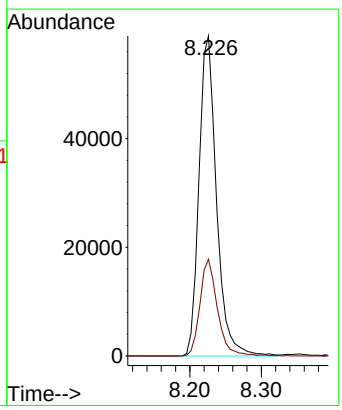
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

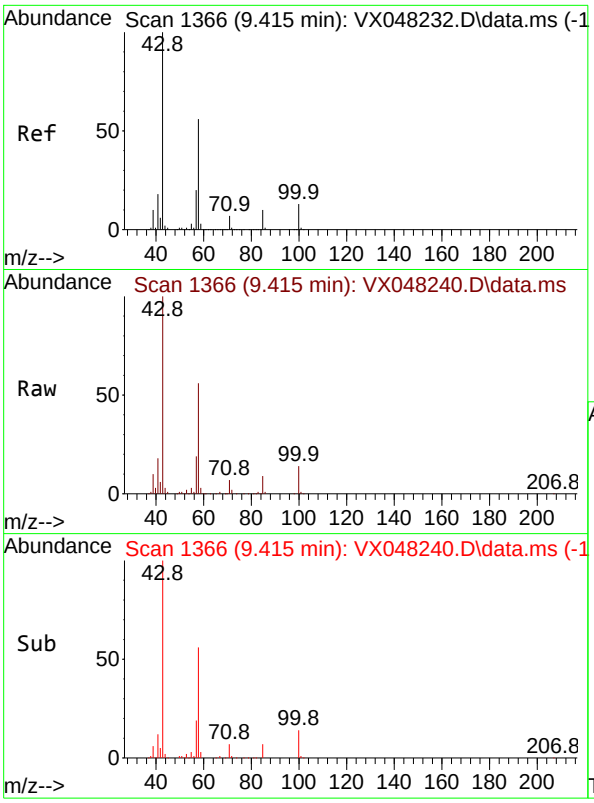


#58
2-Chloroethyl Vinyl ether
Concen: 87.448 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 63 Resp: 100252

Ion	Ratio	Lower	Upper
63	100		
106	30.1	22.2	33.2





#59
2-Hexanone
Concen: 94.586 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

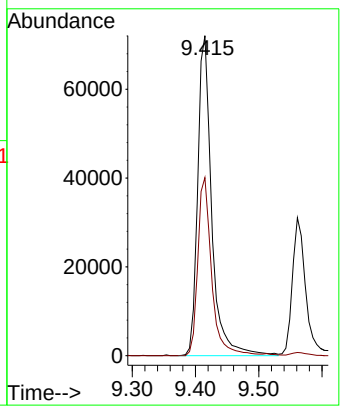
Tgt Ion: 43 Resp: 11144

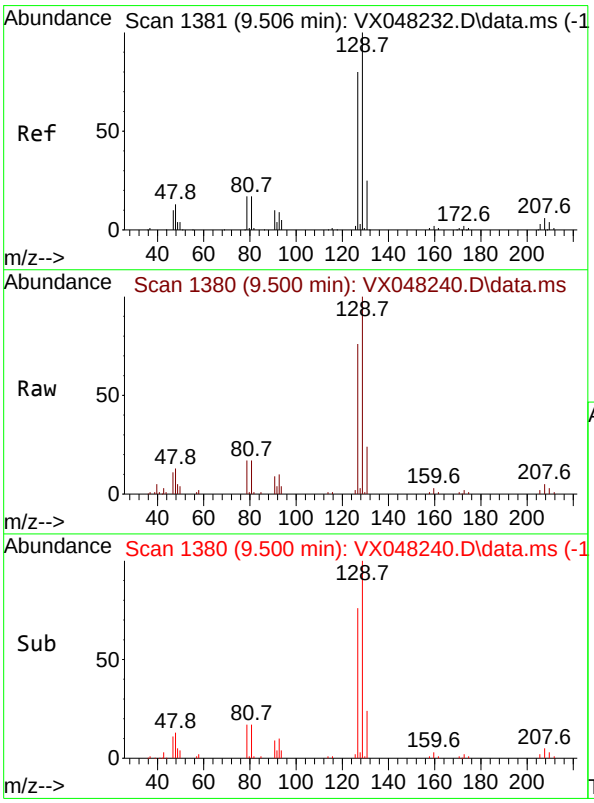
Ion	Ratio	Lower	Upper
43	100		
58	54.7	26.3	78.8

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

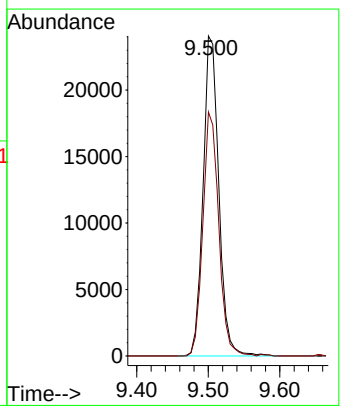


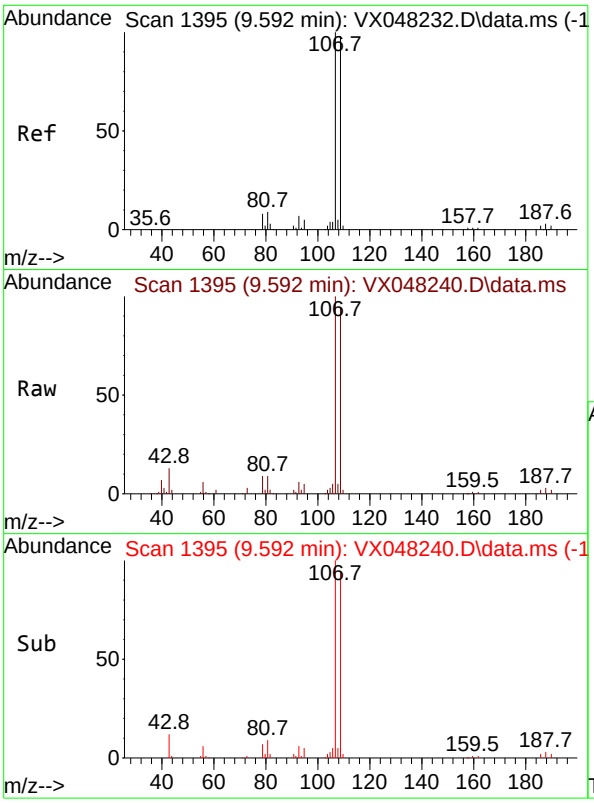


#60
Dibromochloromethane
Concen: 18.502 ug/l
RT: 9.500 min Scan# 1380
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:129 Resp: 36715

Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.6	115.7





#61
1,2-Dibromoethane
Concen: 19.146 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

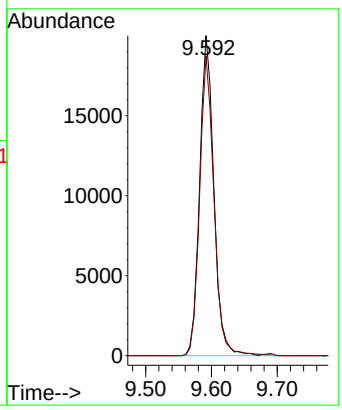
Tgt Ion:107 Resp: 3013

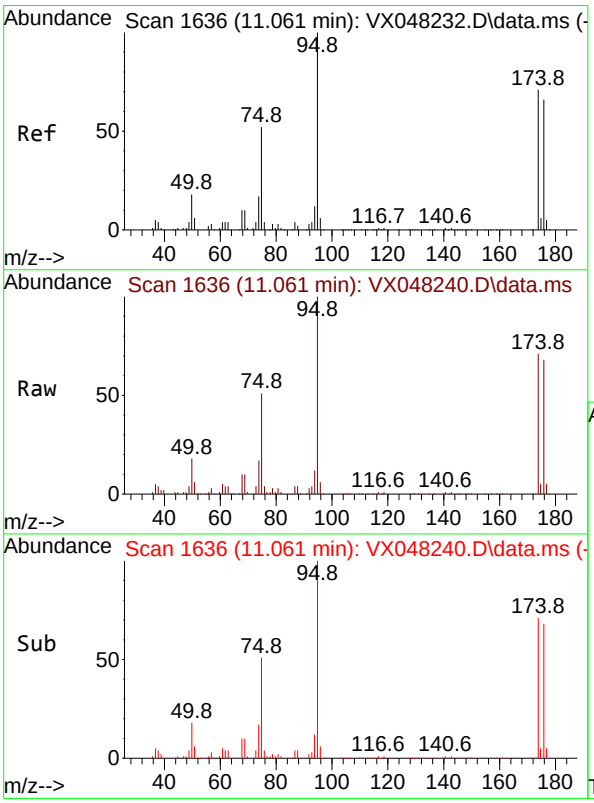
Ion	Ratio	Lower	Upper
107	100		
109	93.4	77.0	115.4

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

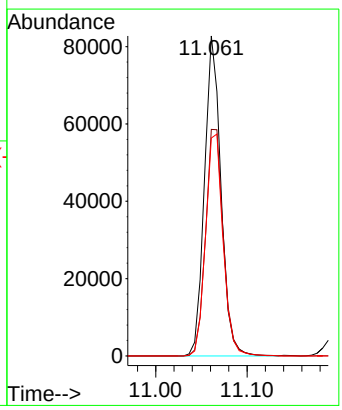


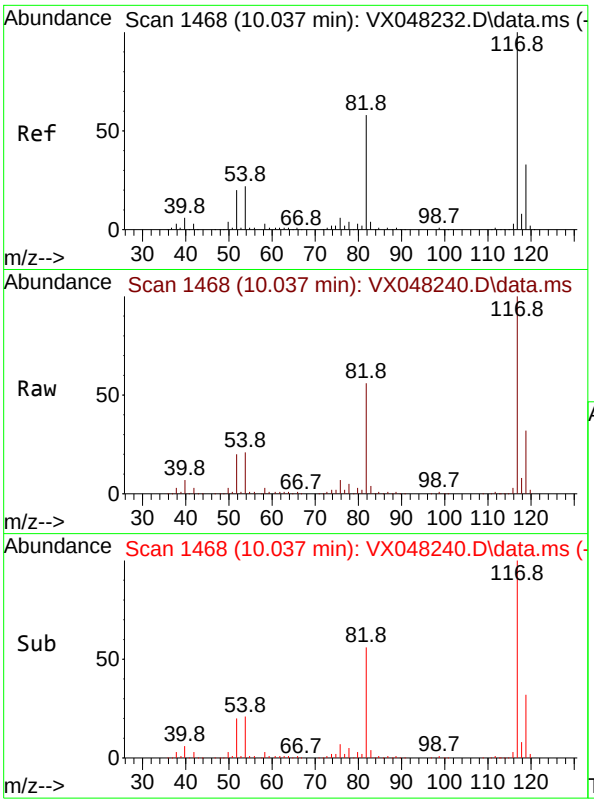


#62
4-Bromofluorobenzene
Concen: 51.072 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 95 Resp: 103135

Ion	Ratio	Lower	Upper
95	100		
174	76.5	0.0	147.8
176	73.8	0.0	142.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

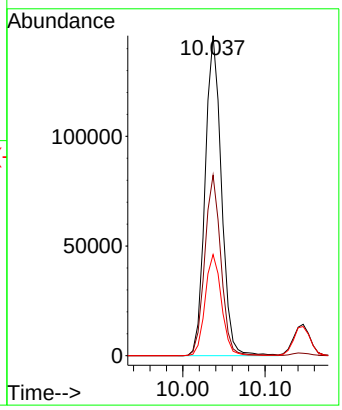
Tgt Ion:117 Resp: 20051

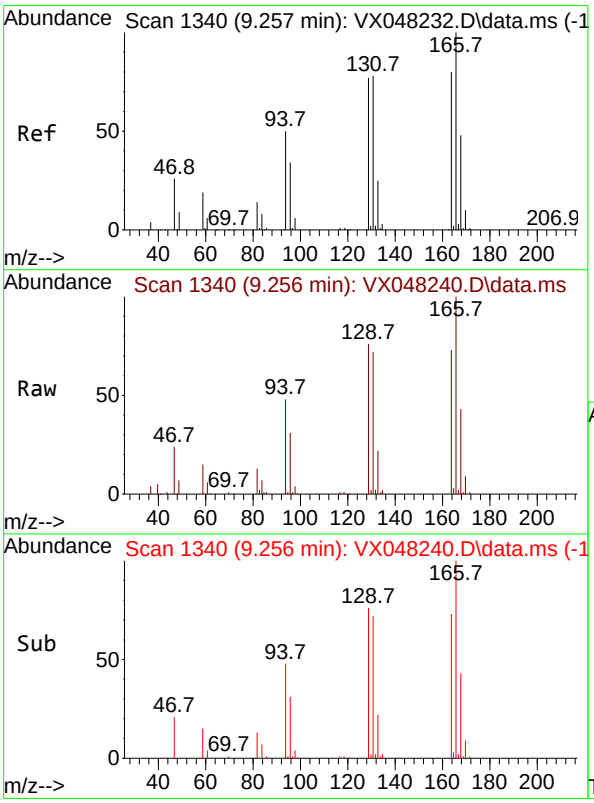
Ion	Ratio	Lower	Upper
117	100		
82	56.4	46.5	69.7
119	31.6	25.9	38.9

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

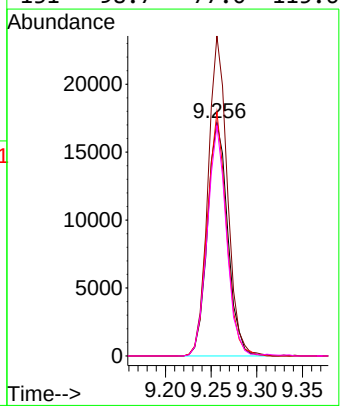


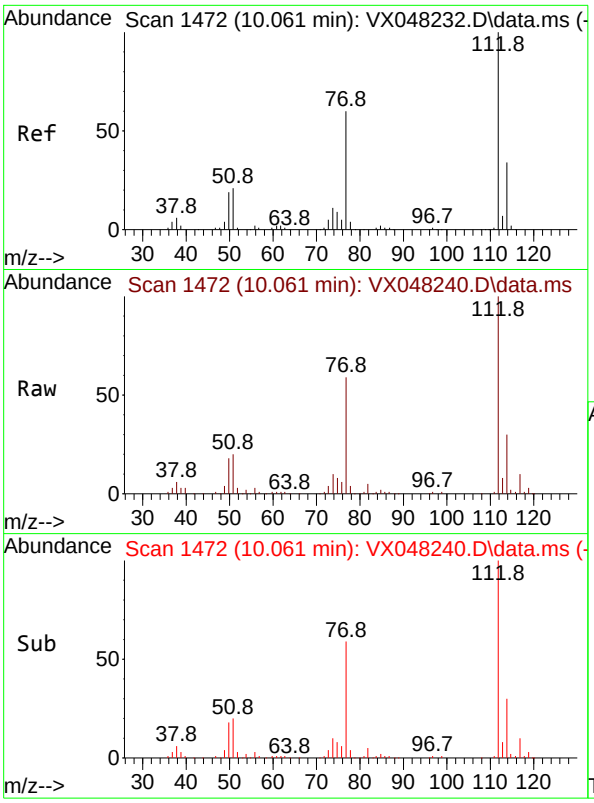


#64
Tetrachloroethene
Concen: 17.678 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:164 Resp: 26462

Ion	Ratio	Lower	Upper
164	100		
166	137.1	104.5	156.7
129	104.4	81.8	122.6
131	98.7	77.0	115.6

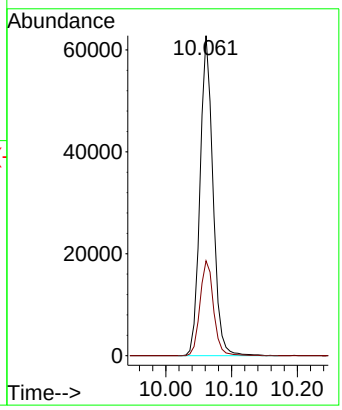




#65
Chlorobenzene
Concen: 19.036 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:112 Resp: 8586

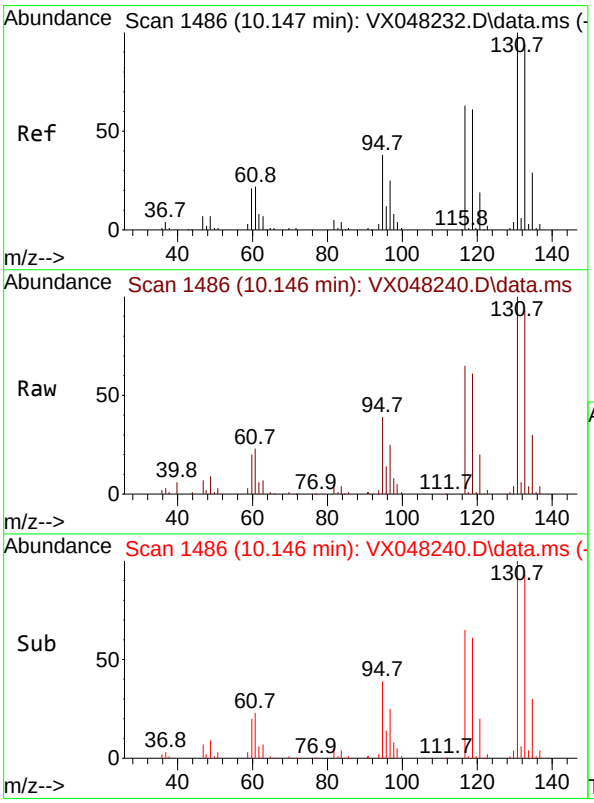
Ion	Ratio	Lower	Upper
112	100		
114	29.7	26.2	39.2



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

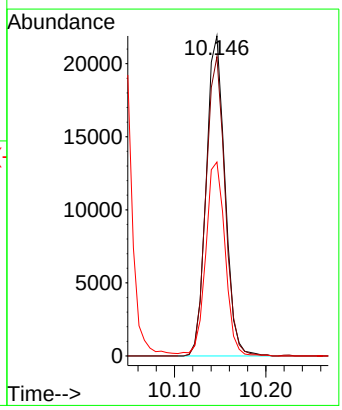
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

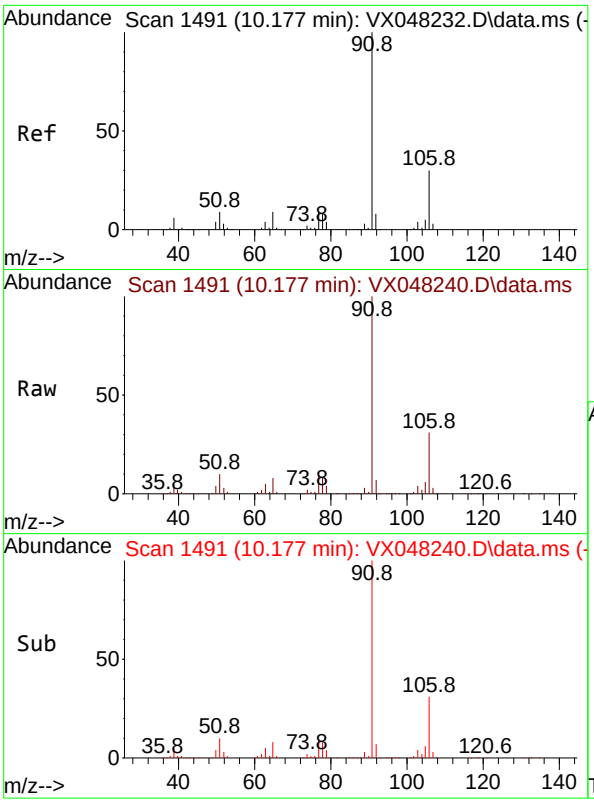


#66
1,1,1,2-Tetrachloroethane
Concen: 18.790 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:131 Resp: 31130

Ion	Ratio	Lower	Upper
131	100		
133	94.6	47.6	142.8
119	62.5	32.5	97.5





#67
Ethyl Benzene
Concen: 18.464 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

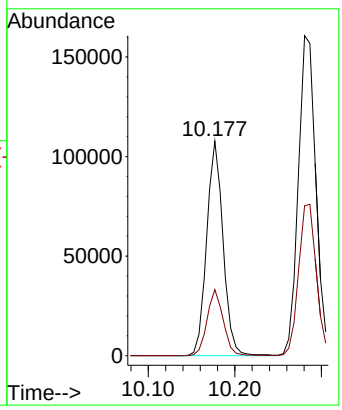
Tgt Ion: 91 Resp: 14179

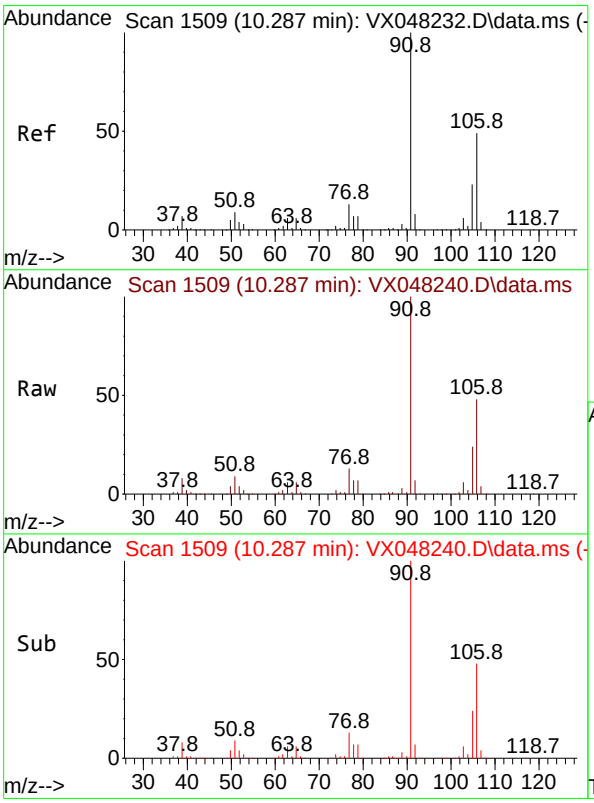
Ion	Ratio	Lower	Upper
91	100		
106	30.8	23.8	35.6

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

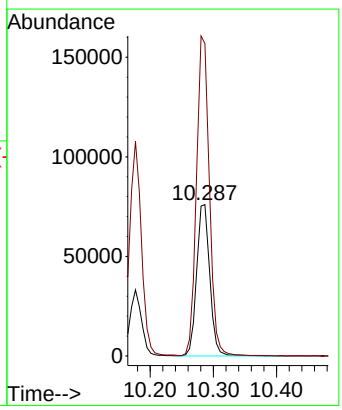


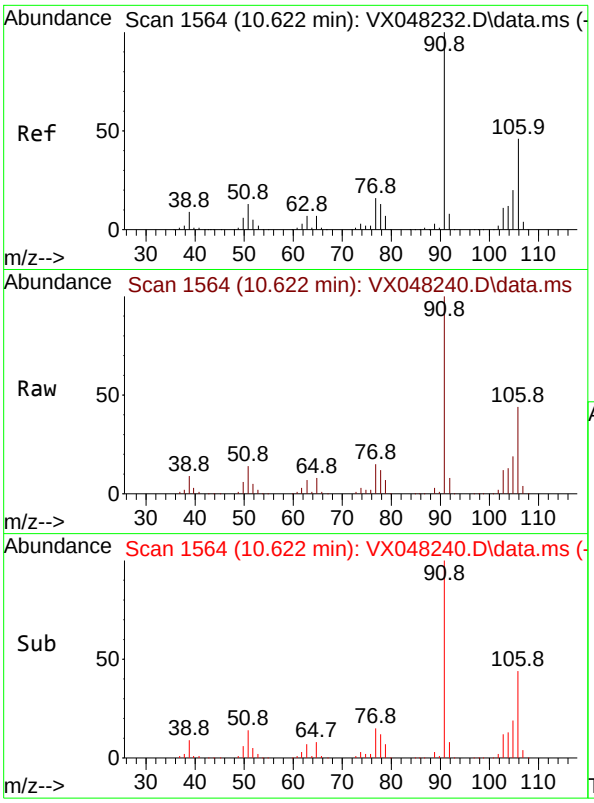


#68
m/p-Xylenes
Concen: 38.506 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:106 Resp: 109872

Ion	Ratio	Lower	Upper
106	100		
91	208.6	167.9	251.9





#69
o-Xylene
Concen: 18.685 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

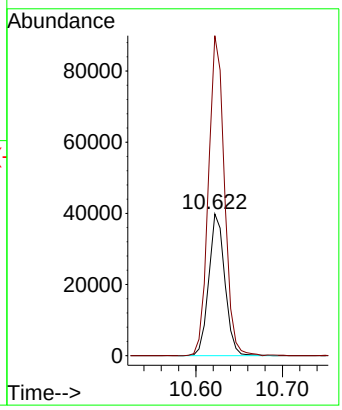
Tgt Ion:106 Resp: 5147

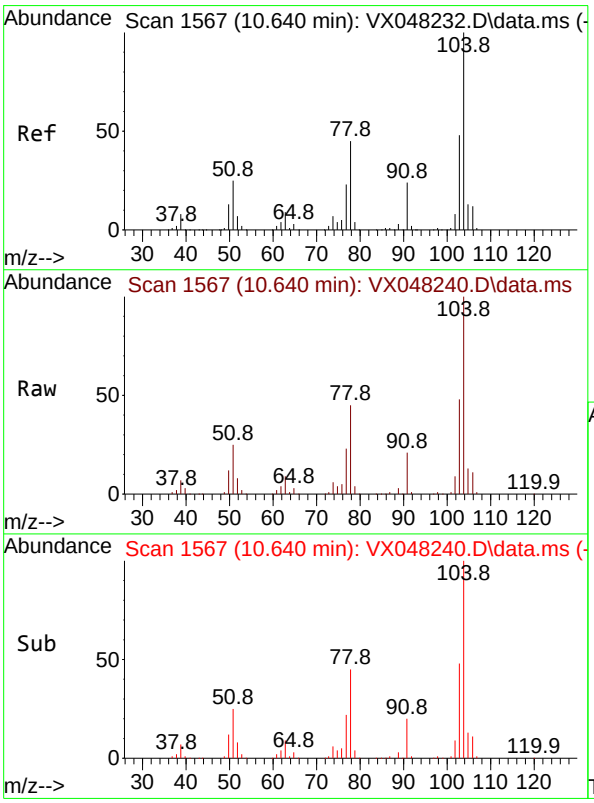
Ion	Ratio	Lower	Upper
106	100		
91	223.6	111.3	333.9

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

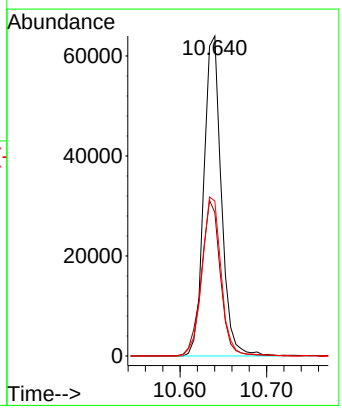


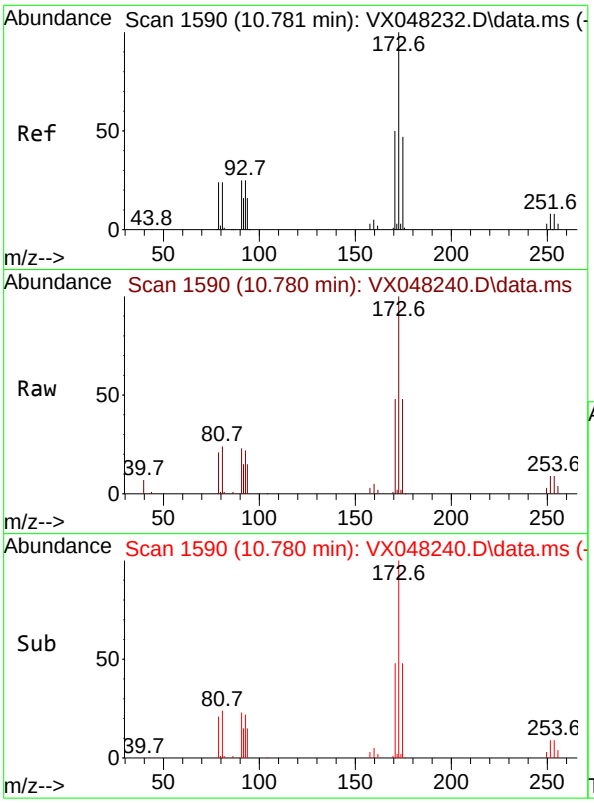


#70
Styrene
Concen: 19.141 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:104 Resp: 89782

Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.2	63.4
103	54.4	43.0	64.4





#71
Bromoform
Concen: 18.645 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

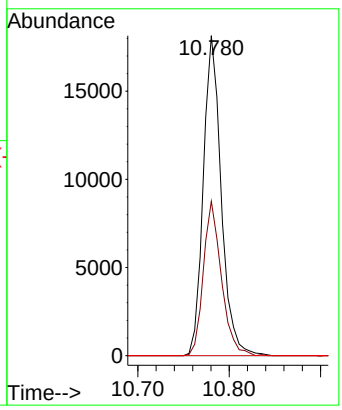
Tgt Ion:173 Resp: 2468

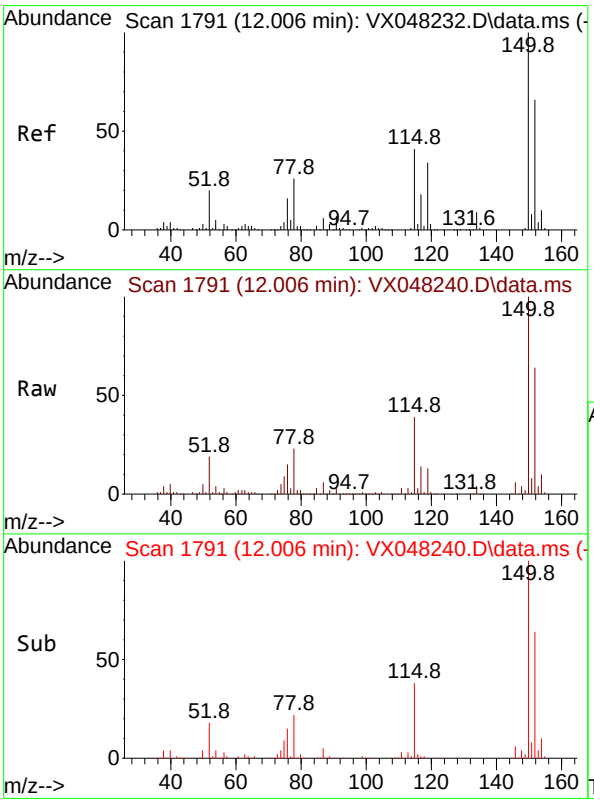
Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.0	72.0
254	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

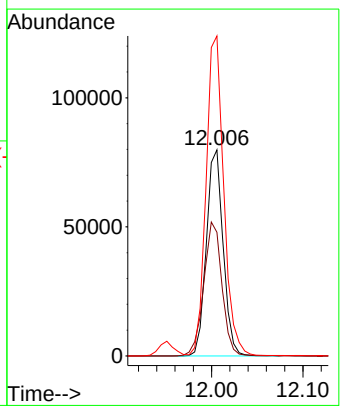


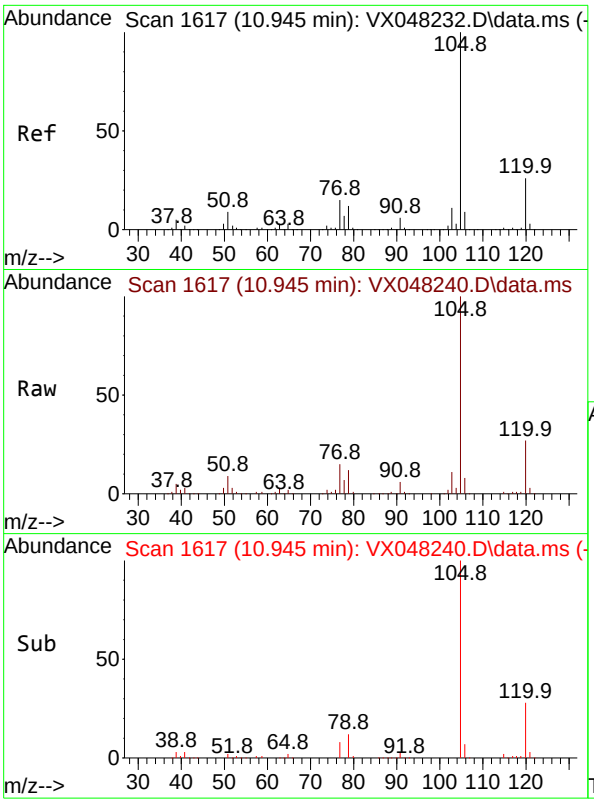


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:152 Resp: 101575

Ion	Ratio	Lower	Upper
152	100		
115	70.4	43.1	129.4
150	163.3	0.0	353.0





#73
Isopropylbenzene
Concen: 18.256 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

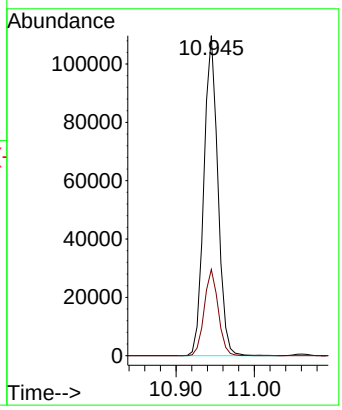
Tgt Ion:105 Resp: 13544

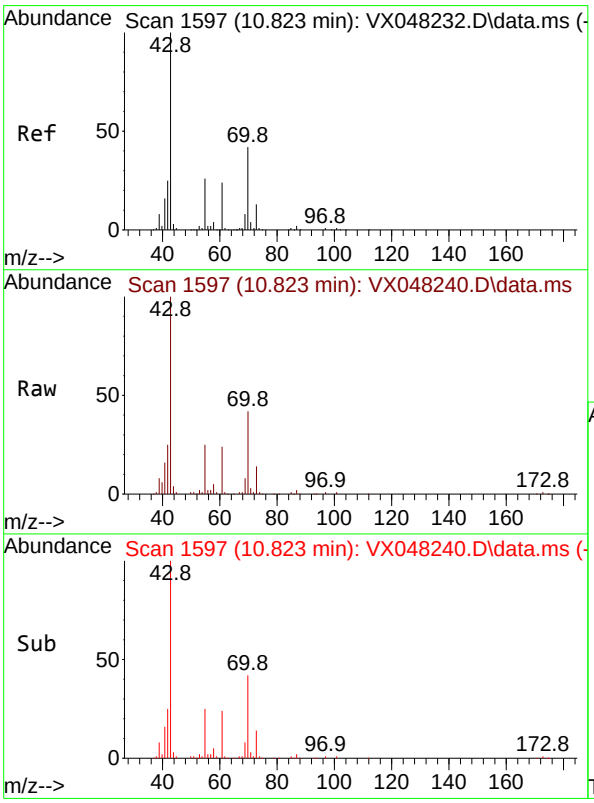
Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.0	38.9

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

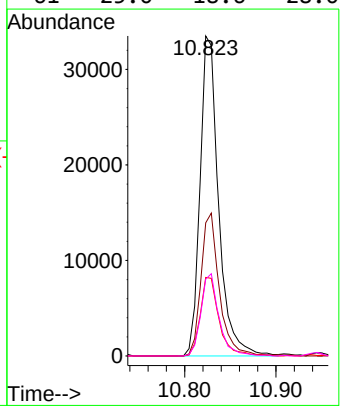


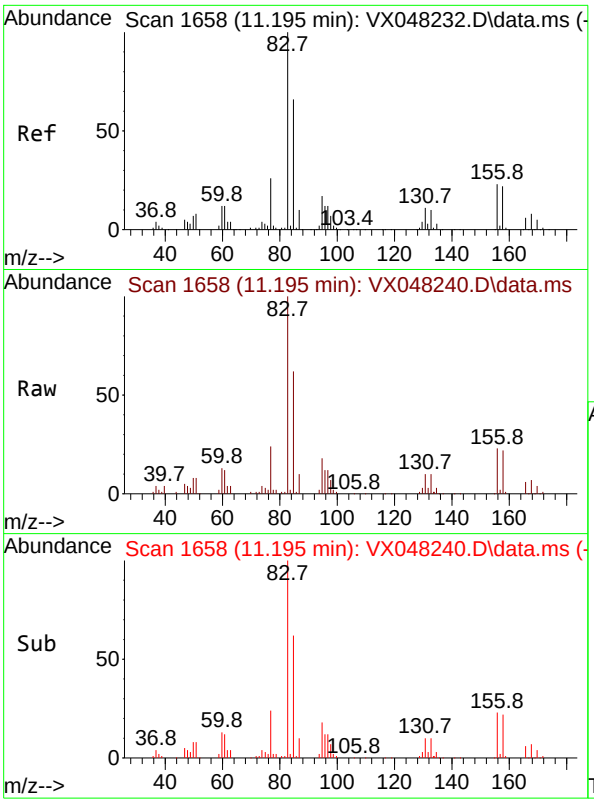


#74
N-amyl acetate
Concen: 17.942 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 43 Resp: 47216

Ion	Ratio	Lower	Upper
43	100		
70	44.5	32.2	48.2
55	25.0	19.1	28.7
61	25.0	18.6	28.0

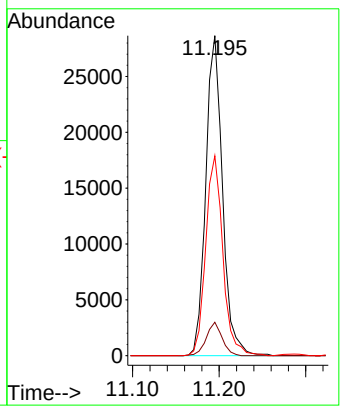




#75
1,1,2,2-Tetrachloroethane
Concen: 18.992 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 83 Resp: 3847

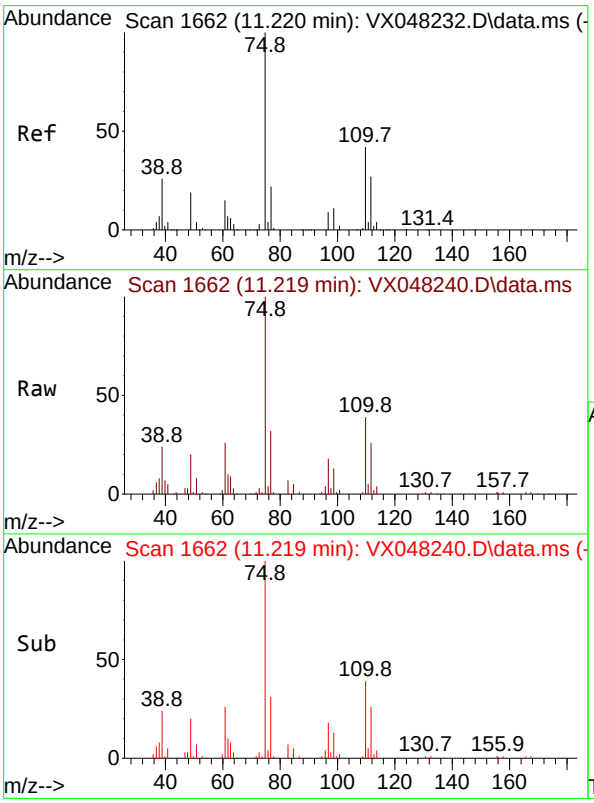
Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.8	14.4
85	64.2	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

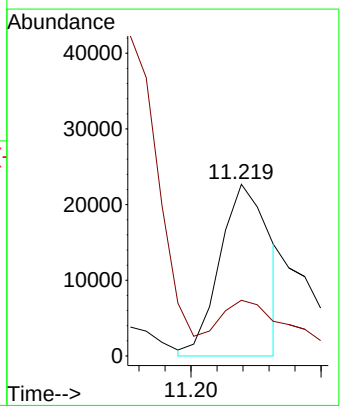
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

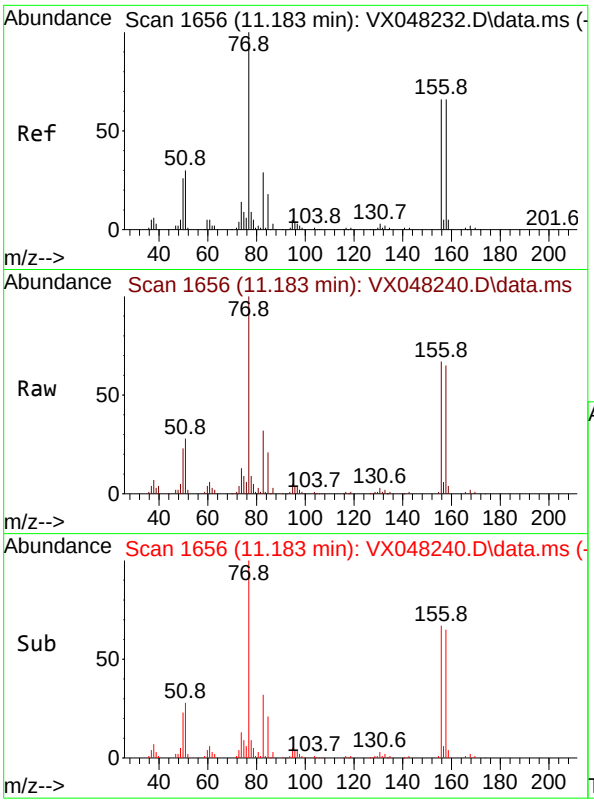


#76
1,2,3-Trichloropropane
Concen: 18.197 ug/l m
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 75 Resp: 29974

Ion	Ratio	Lower	Upper
75	100		
77	47.6	22.4	67.2





#77
Bromobenzene
Concen: 18.883 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

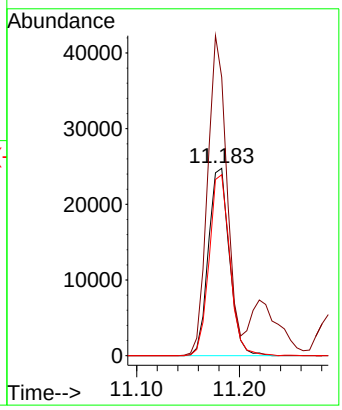
Tgt Ion:156 Resp: 3512

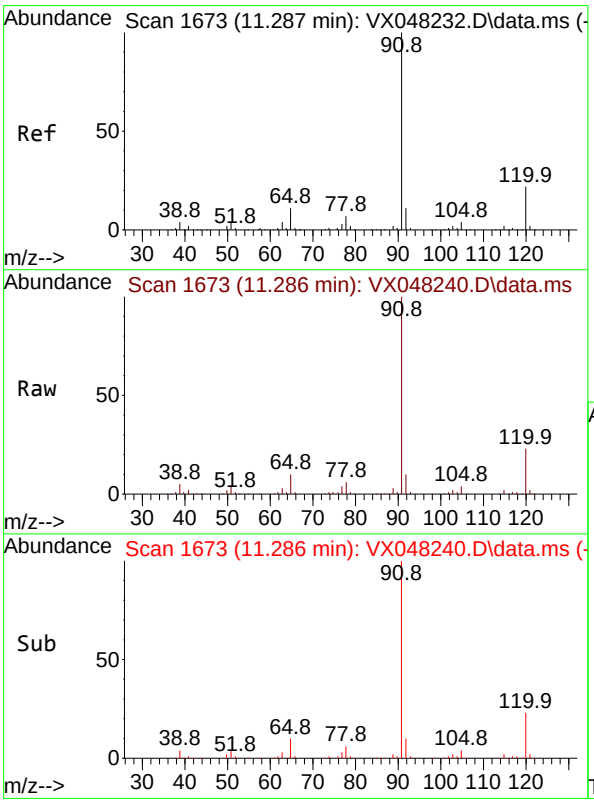
Ion	Ratio	Lower	Upper
156	100		
77	156.7	87.0	261.0
158	94.9	47.8	143.4

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

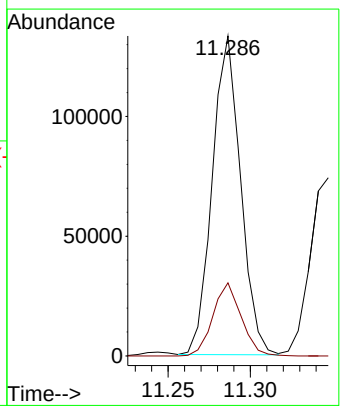


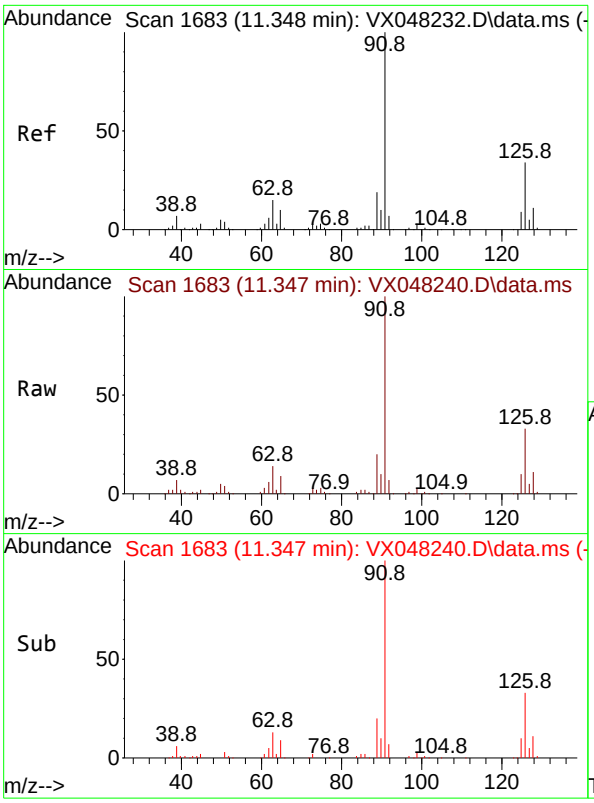


#78
n-propylbenzene
Concen: 18.563 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 91 Resp: 159455

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.1	33.1





#79
2-Chlorotoluene
Concen: 18.331 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

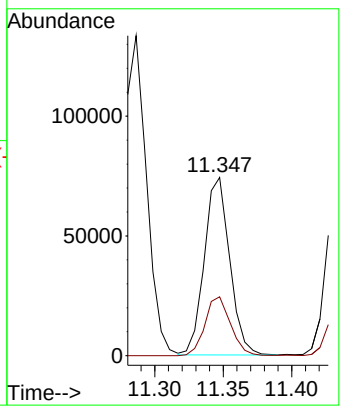
Tgt Ion: 91 Resp: 9546

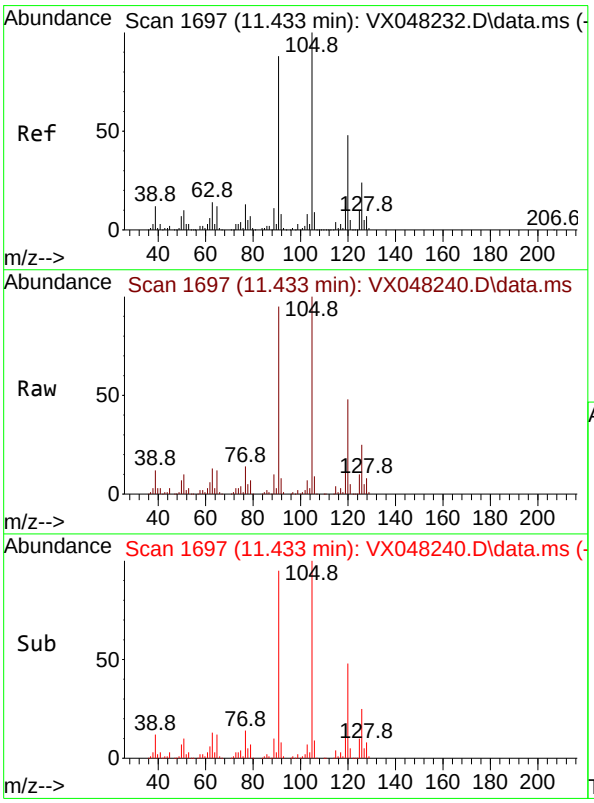
Ion	Ratio	Lower	Upper
91	100		
126	33.5	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

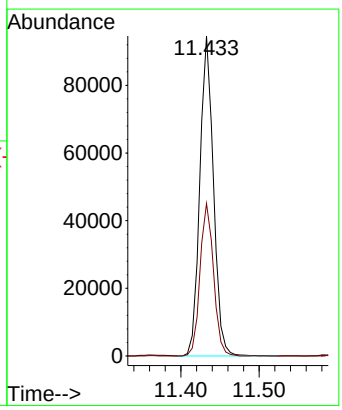


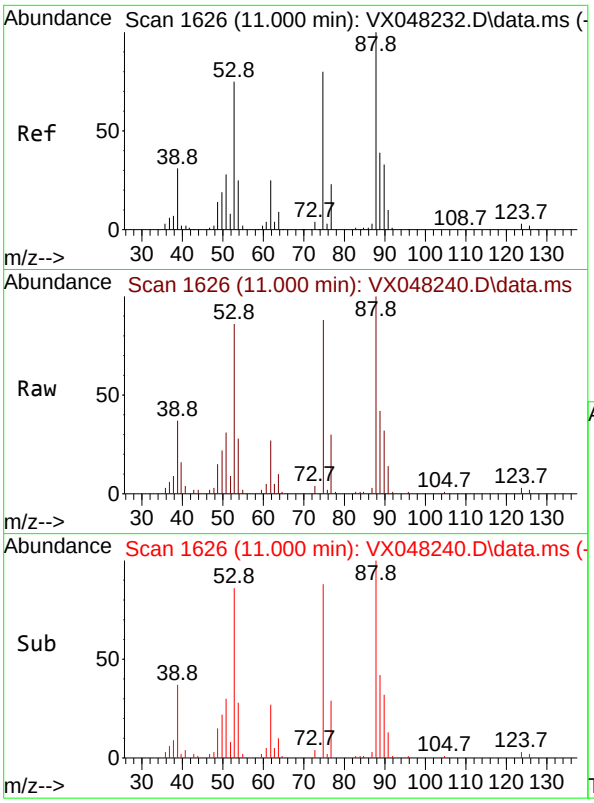


#80
1,3,5-Trimethylbenzene
Concen: 18.597 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:105 Resp: 114180

Ion	Ratio	Lower	Upper
105	100		
120	47.2	24.0	72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 16.997 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

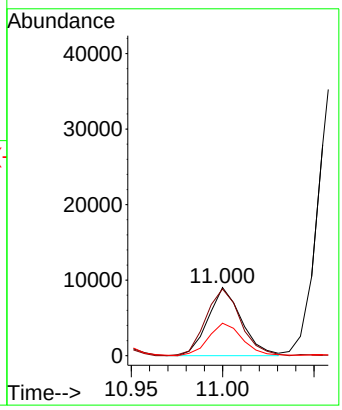
Tgt Ion: 75 Resp: 1150

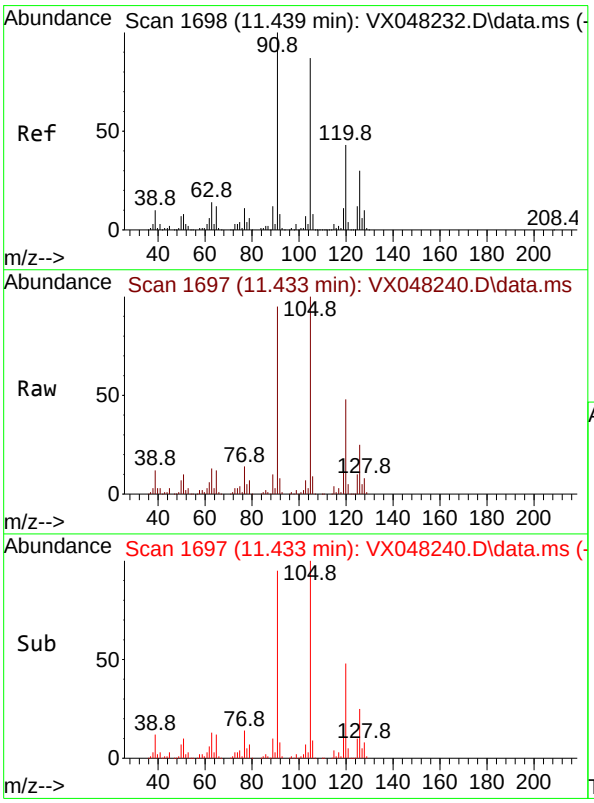
Ion	Ratio	Lower	Upper
75	100		
53	101.6	79.5	119.3
89	48.5	36.8	55.2

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

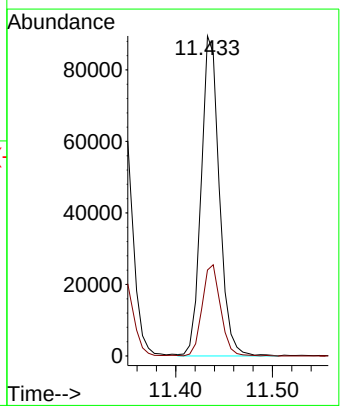


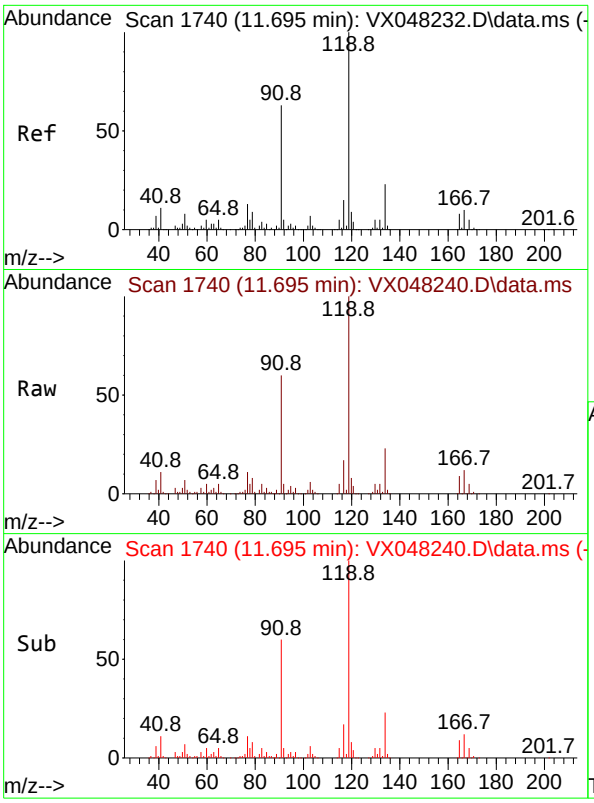


#82
4-Chlorotoluene
Concen: 18.938 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 91 Resp: 117079

Ion	Ratio	Lower	Upper
91	100		
126	28.9	14.1	42.4

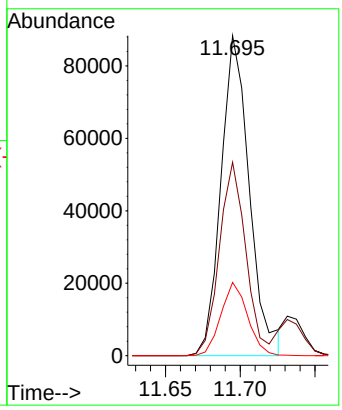




#83
tert-Butylbenzene
Concen: 18.471 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:119 Resp: 11652

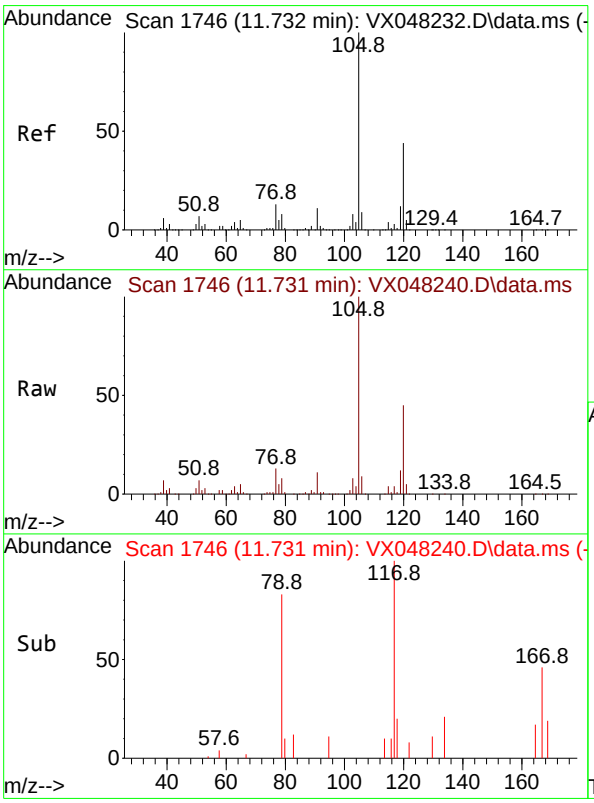
Ion	Ratio	Lower	Upper
119	100		
91	56.6	30.3	91.0
134	21.7	11.4	34.2



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

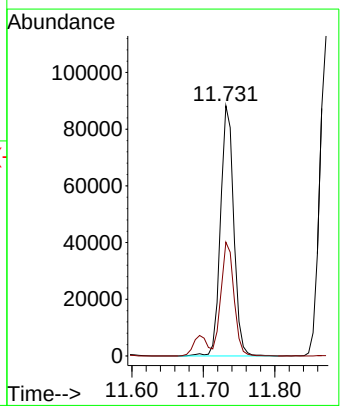
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

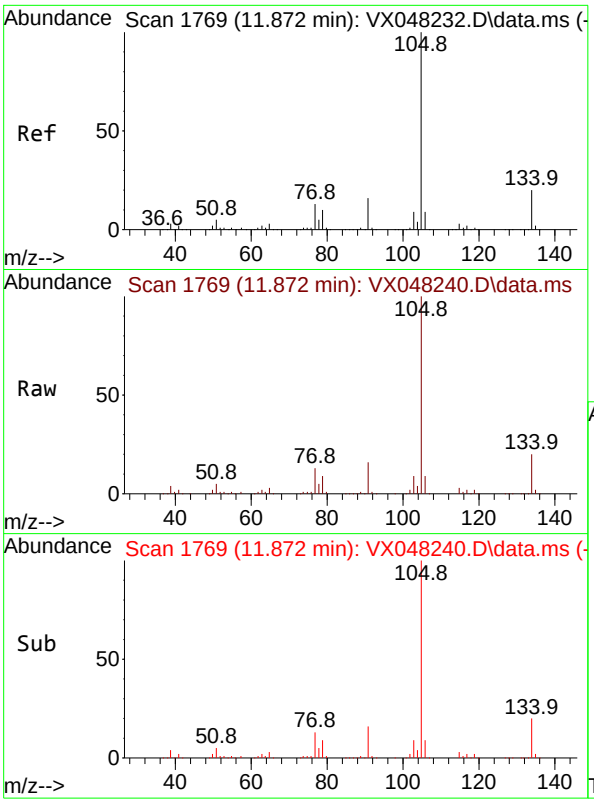


#84
1,2,4-Trimethylbenzene
Concen: 18.509 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:105 Resp: 113408

Ion	Ratio	Lower	Upper
105	100		
120	44.5	22.1	66.5





#85
sec-Butylbenzene
Concen: 18.036 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

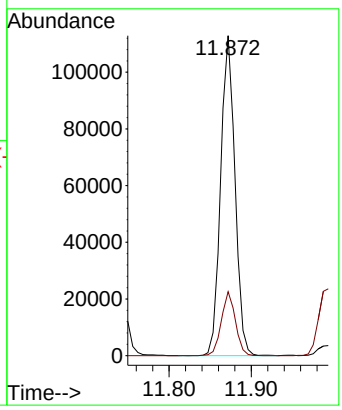
Tgt Ion:105 Resp: 13688

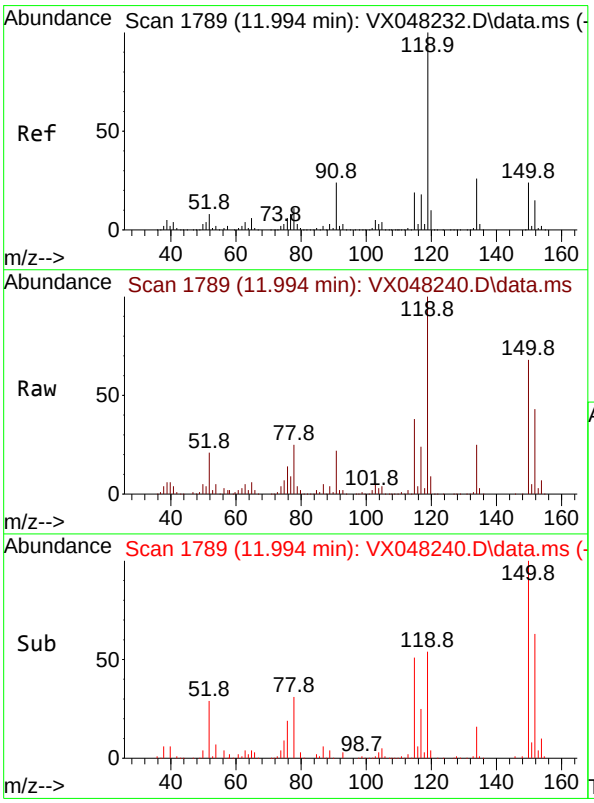
Ion	Ratio	Lower	Upper
105	100		
134	19.6	10.1	30.1

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

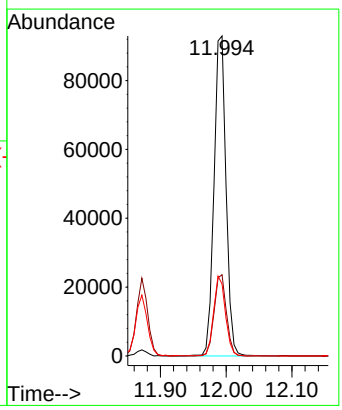


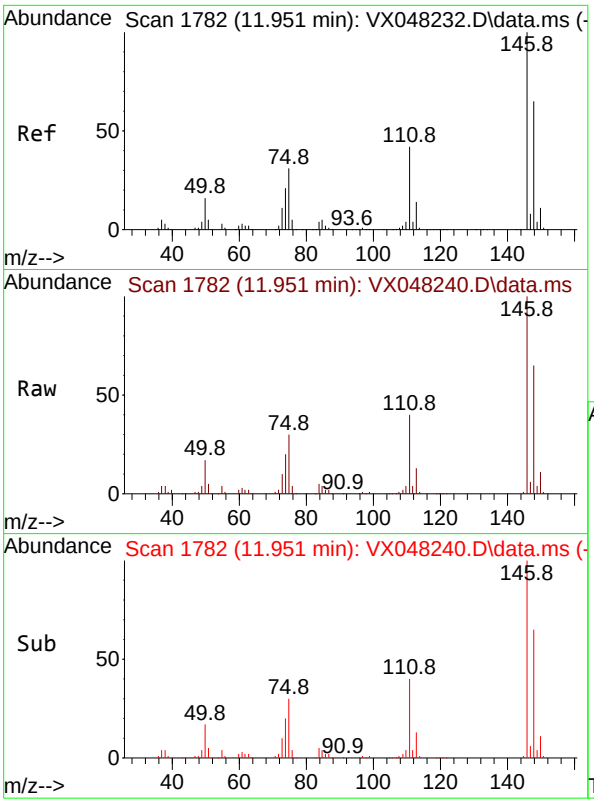


#86
p-Isopropyltoluene
Concen: 18.053 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:119 Resp: 118427

Ion	Ratio	Lower	Upper
119	100		
134	25.8	13.0	39.0
91	24.5	12.1	36.3

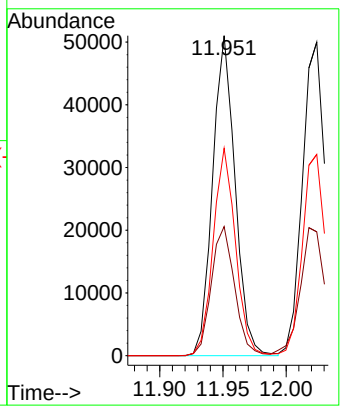




#87
1,3-Dichlorobenzene
Concen: 17.970 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:146 Resp: 6301

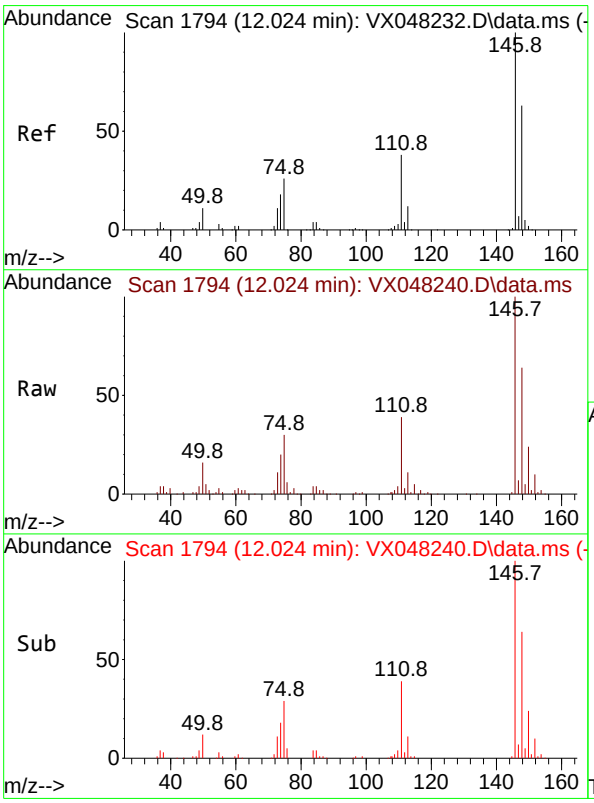
Ion	Ratio	Lower	Upper
146	100		
111	41.9	20.4	61.2
148	64.3	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

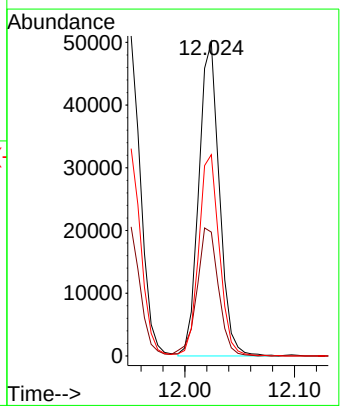
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

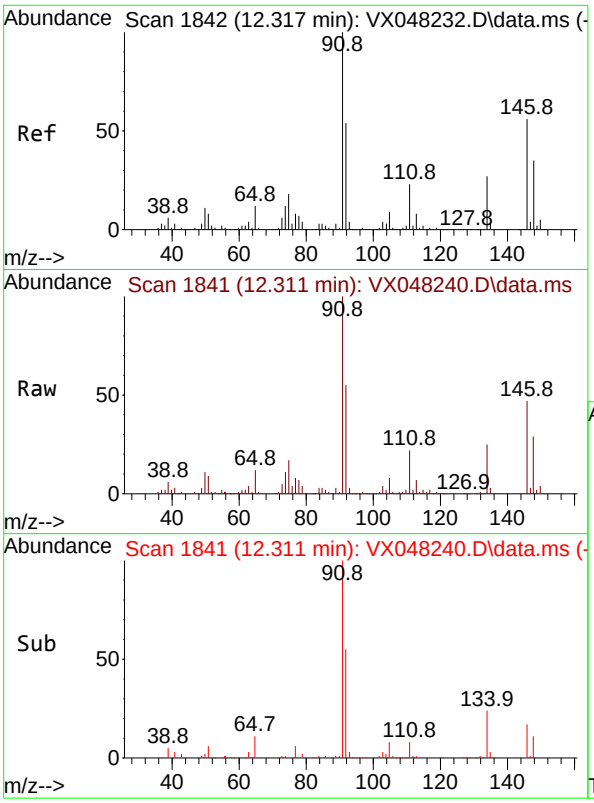


#88
1,4-Dichlorobenzene
Concen: 17.912 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:146 Resp: 65076

Ion	Ratio	Lower	Upper
146	100		
111	42.9	20.1	60.2
148	64.3	31.8	95.3

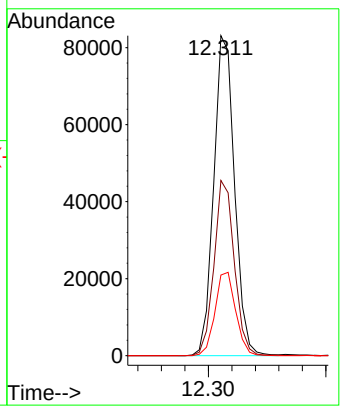




#89
n-Butylbenzene
Concen: 17.110 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 91 Resp: 10216

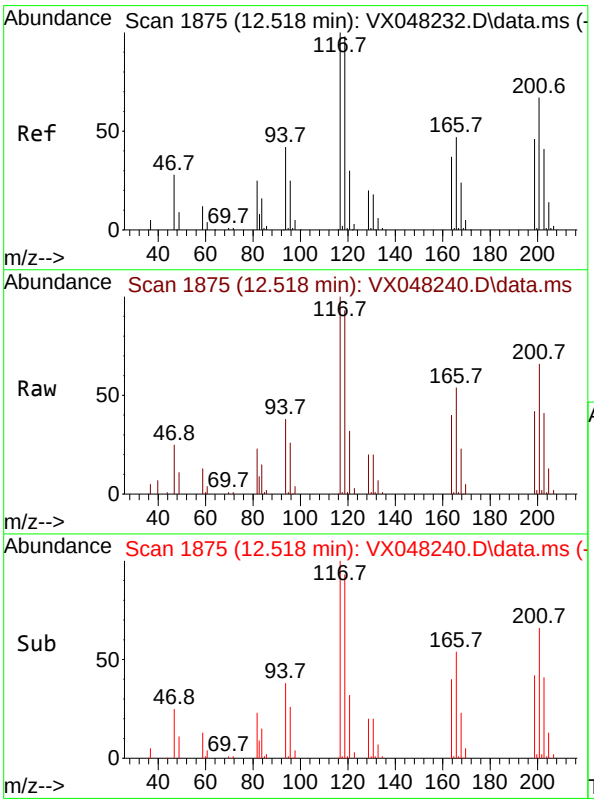
Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.9	80.6
134	26.0	12.7	38.1



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

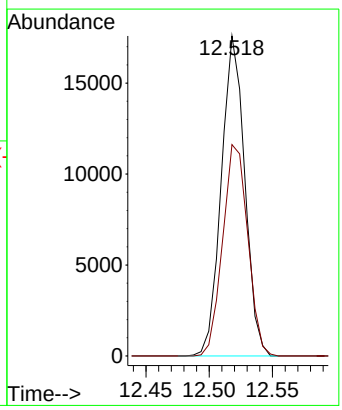
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

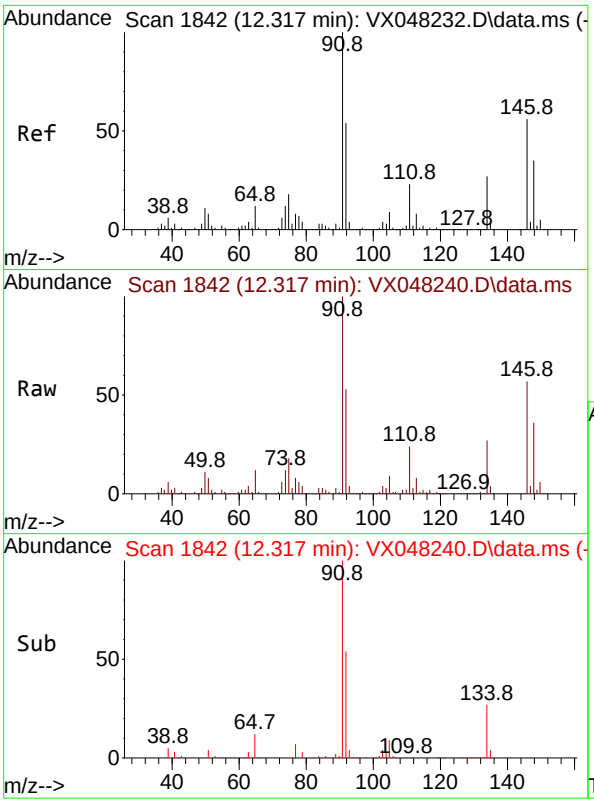


#90
Hexachloroethane
Concen: 17.480 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:117 Resp: 22644

Ion	Ratio	Lower	Upper
117	100		
201	70.8	34.1	102.2

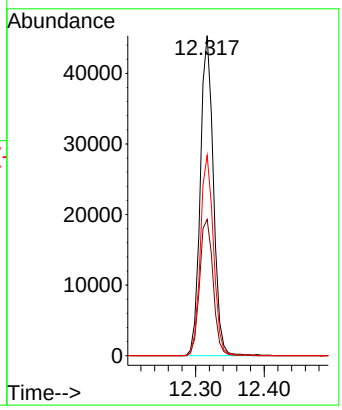




#91
1,2-Dichlorobenzene
Concen: 18.277 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:146 Resp: 6018

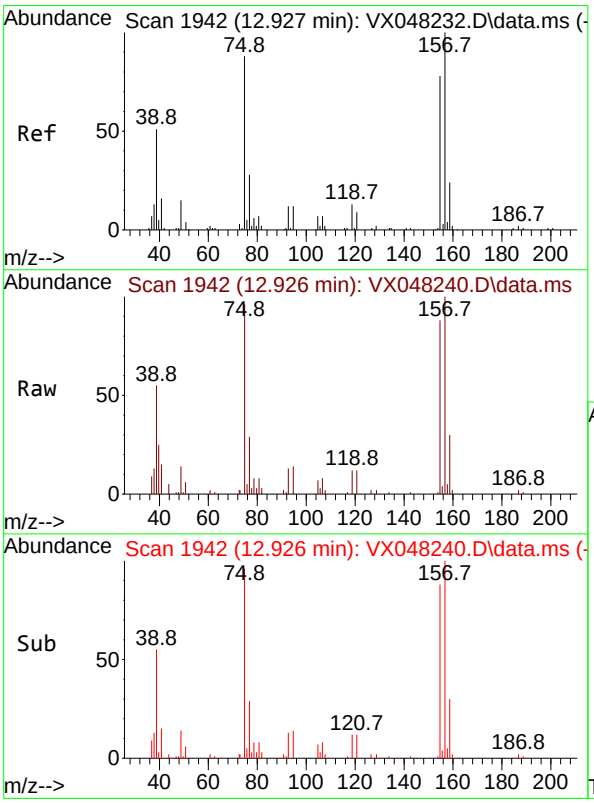
Ion	Ratio	Lower	Upper
146	100		
111	44.1	21.9	65.5
148	62.9	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

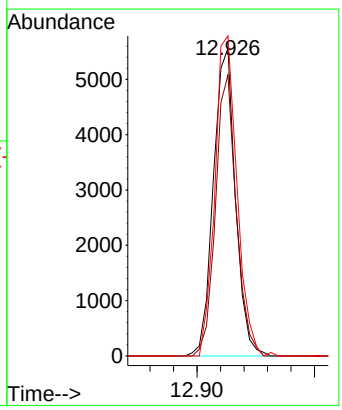
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

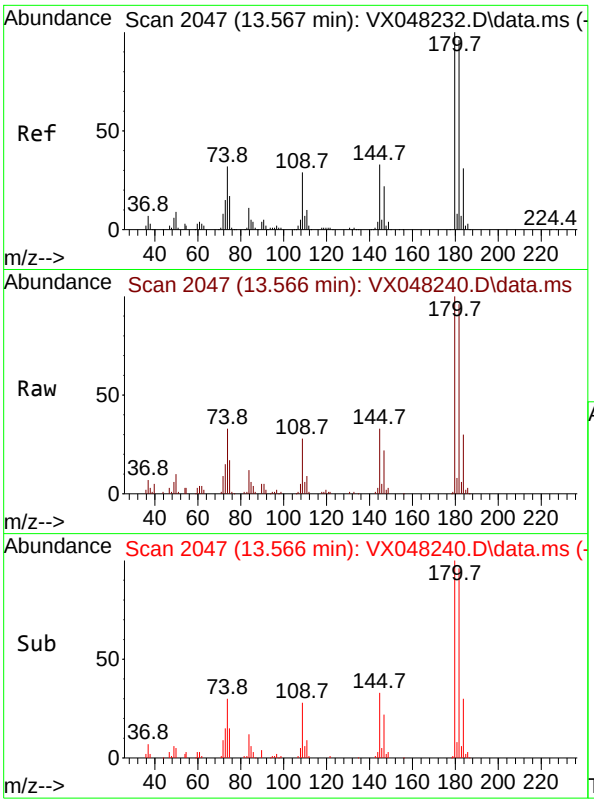


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.612 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 75 Resp: 7243

Ion	Ratio	Lower	Upper
75	100		
155	86.1	42.8	128.4
157	104.5	54.2	162.6

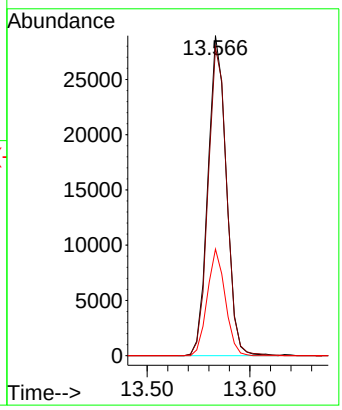




#93
1,2,4-Trichlorobenzene
Concen: 16.119 ug/l
RT: 13.566 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:180 Resp: 3589

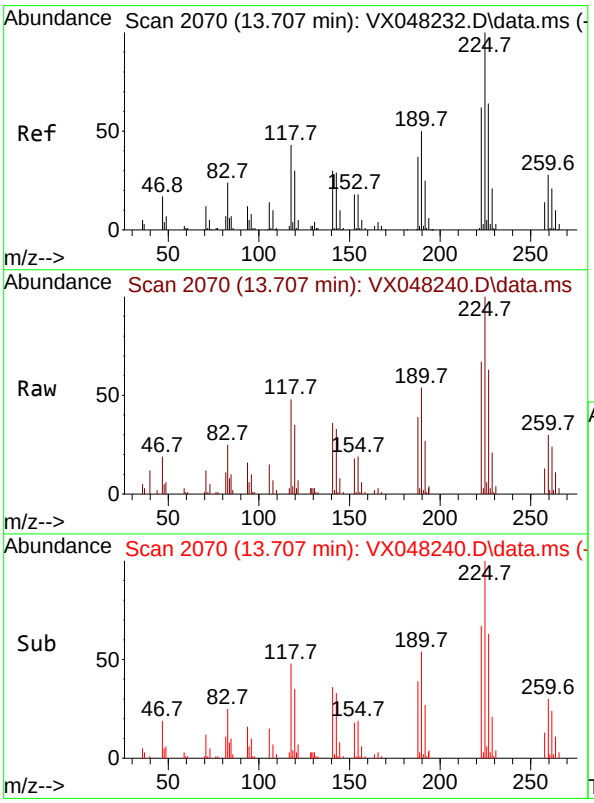
Ion	Ratio	Lower	Upper
180	100		
182	97.5	47.3	142.0
145	32.5	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

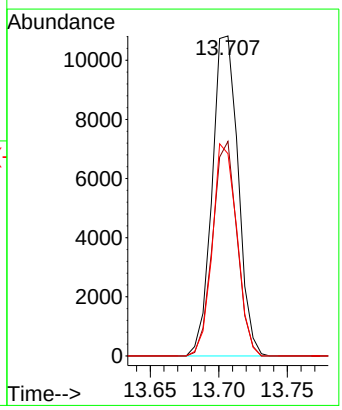
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

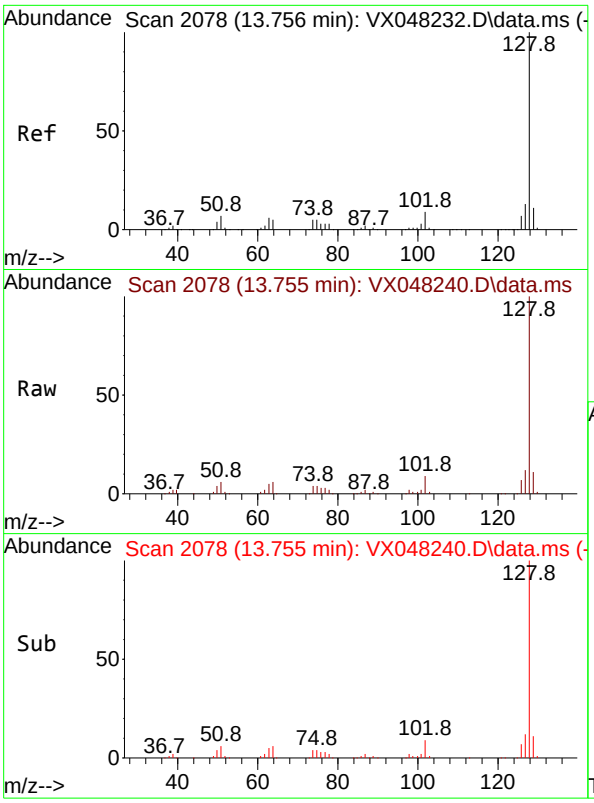


#94
Hexachlorobutadiene
Concen: 17.115 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:225 Resp: 14244

Ion	Ratio	Lower	Upper
225	100		
223	62.9	32.6	97.7
227	62.7	32.5	97.4

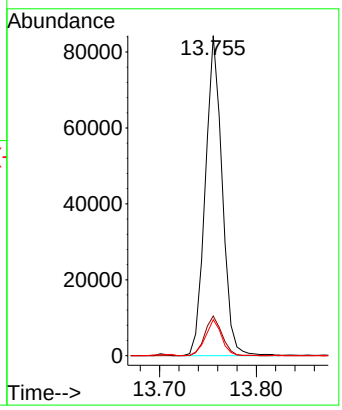




#95
Naphthalene
Concen: 17.342 ug/l
RT: 13.755 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:128 Resp: 10230

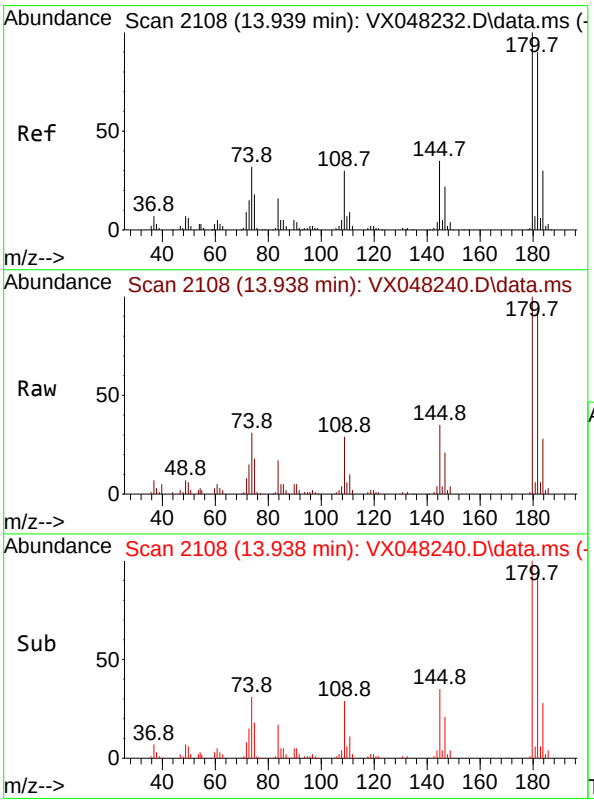
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.4
129	10.8	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Manual Integrations
APPROVED

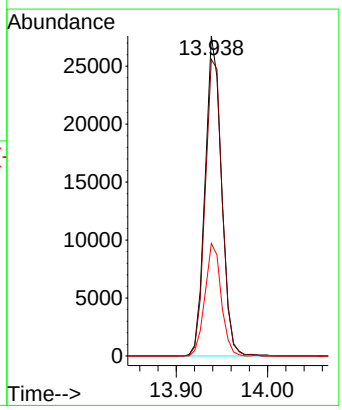
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 16.802 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:180 Resp: 34331

Ion	Ratio	Lower	Upper
180	100		
182	96.1	46.6	139.7
145	34.8	16.9	50.7



Raw Data: **VX048255.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX1021WBS01	SDG No.:	Q3371
Lab Sample ID:	VX1021WBS01	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS										
75-71-8	Dichlorodifluoromethane	16.8		1	0.22	0.50	1.00	ug/L	10/21/25 10:06	VX102125
74-87-3	Chloromethane	17.8		1	0.32	0.50	1.00	ug/L	10/21/25 10:06	VX102125
75-01-4	Vinyl Chloride	17.6		1	0.26	0.75	1.00	ug/L	10/21/25 10:06	VX102125
74-83-9	Bromomethane	19.3		1	1.40	3.80	5.00	ug/L	10/21/25 10:06	VX102125
75-00-3	Chloroethane	18.9		1	0.47	0.75	1.00	ug/L	10/21/25 10:06	VX102125
75-69-4	Trichlorofluoromethane	17.7		1	0.33	0.50	1.00	ug/L	10/21/25 10:06	VX102125
76-13-1	1,1,2-Trichlorotrifluoroethane	17.6		1	0.25	0.50	1.00	ug/L	10/21/25 10:06	VX102125
75-35-4	1,1-Dichloroethene	18.0		1	0.23	0.75	1.00	ug/L	10/21/25 10:06	VX102125
67-64-1	Acetone	82.3		1	1.50	3.80	5.00	ug/L	10/21/25 10:06	VX102125
75-15-0	Carbon Disulfide	16.6		1	0.21	0.75	1.00	ug/L	10/21/25 10:06	VX102125
1634-04-4	Methyl tert-butyl Ether	17.6		1	0.16	0.50	1.00	ug/L	10/21/25 10:06	VX102125
79-20-9	Methyl Acetate	17.5		1	0.27	0.75	1.00	ug/L	10/21/25 10:06	VX102125
75-09-2	Methylene Chloride	19.1		1	0.28	0.50	1.00	ug/L	10/21/25 10:06	VX102125
156-60-5	trans-1,2-Dichloroethene	17.9		1	0.23	0.50	1.00	ug/L	10/21/25 10:06	VX102125
75-34-3	1,1-Dichloroethane	18.4		1	0.23	0.50	1.00	ug/L	10/21/25 10:06	VX102125
110-82-7	Cyclohexane	19.2		1	1.50	2.50	5.00	ug/L	10/21/25 10:06	VX102125
78-93-3	2-Butanone	85.2		1	0.98	2.50	5.00	ug/L	10/21/25 10:06	VX102125
56-23-5	Carbon Tetrachloride	17.0		1	0.25	0.50	1.00	ug/L	10/21/25 10:06	VX102125
156-59-2	cis-1,2-Dichloroethene	18.9		1	0.19	0.75	1.00	ug/L	10/21/25 10:06	VX102125
74-97-5	Bromochloromethane	21.6		1	0.22	0.50	1.00	ug/L	10/21/25 10:06	VX102125
67-66-3	Chloroform	18.8		1	0.25	0.50	1.00	ug/L	10/21/25 10:06	VX102125
71-55-6	1,1,1-Trichloroethane	18.1		1	0.20	0.50	1.00	ug/L	10/21/25 10:06	VX102125
108-87-2	Methylcyclohexane	17.0		1	0.16	0.50	1.00	ug/L	10/21/25 10:06	VX102125
71-43-2	Benzene	18.5		1	0.15	0.50	1.00	ug/L	10/21/25 10:06	VX102125
107-06-2	1,2-Dichloroethane	19.1		1	0.22	0.50	1.00	ug/L	10/21/25 10:06	VX102125
79-01-6	Trichloroethene	18.1		1	0.090	0.75	1.00	ug/L	10/21/25 10:06	VX102125
78-87-5	1,2-Dichloropropane	19.3		1	0.20	0.50	1.00	ug/L	10/21/25 10:06	VX102125
75-27-4	Bromodichloromethane	18.6		1	0.22	0.50	1.00	ug/L	10/21/25 10:06	VX102125
108-10-1	4-Methyl-2-Pentanone	86.9		1	0.68	2.50	5.00	ug/L	10/21/25 10:06	VX102125
108-88-3	Toluene	18.8		1	0.14	0.50	1.00	ug/L	10/21/25 10:06	VX102125
10061-02-6	t-1,3-Dichloropropene	18.4		1	0.17	0.50	1.00	ug/L	10/21/25 10:06	VX102125
10061-01-5	cis-1,3-Dichloropropene	18.8		1	0.16	0.50	1.00	ug/L	10/21/25 10:06	VX102125
79-00-5	1,1,2-Trichloroethane	19.1		1	0.21	0.50	1.00	ug/L	10/21/25 10:06	VX102125
591-78-6	2-Hexanone	85.9		1	0.89	2.50	5.00	ug/L	10/21/25 10:06	VX102125
124-48-1	Dibromochloromethane	18.1		1	0.18	0.50	1.00	ug/L	10/21/25 10:06	VX102125
106-93-4	1,2-Dibromoethane	18.6		1	0.15	0.50	1.00	ug/L	10/21/25 10:06	VX102125
127-18-4	Tetrachloroethene	16.9		1	0.23	0.50	1.00	ug/L	10/21/25 10:06	VX102125
108-90-7	Chlorobenzene	18.0		1	0.12	0.50	1.00	ug/L	10/21/25 10:06	VX102125
100-41-4	Ethyl Benzene	17.8		1	0.13	0.50	1.00	ug/L	10/21/25 10:06	VX102125
179601-23-1	m/p-Xylenes	36.8		1	0.24	1.00	2.00	ug/L	10/21/25 10:06	VX102125
95-47-6	o-Xylene	18.1		1	0.12	0.50	1.00	ug/L	10/21/25 10:06	VX102125
100-42-5	Styrene	18.8		1	0.15	0.50	1.00	ug/L	10/21/25 10:06	VX102125
75-25-2	Bromoform	17.0		1	0.19	0.50	1.00	ug/L	10/21/25 10:06	VX102125

Raw Data: **VX048255.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX1021WBS01	SDG No.:	Q3371
Lab Sample ID:	VX1021WBS01	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	17.1		1	0.12	0.50	1.00	ug/L	10/21/25 10:06	VX102125
79-34-5	1,1,2,2-Tetrachloroethane	17.3		1	0.26	0.50	1.00	ug/L	10/21/25 10:06	VX102125
541-73-1	1,3-Dichlorobenzene	17.2		1	0.16	0.50	1.00	ug/L	10/21/25 10:06	VX102125
106-46-7	1,4-Dichlorobenzene	16.6		1	0.19	0.50	1.00	ug/L	10/21/25 10:06	VX102125
95-50-1	1,2-Dichlorobenzene	17.2		1	0.16	0.50	1.00	ug/L	10/21/25 10:06	VX102125
96-12-8	1,2-Dibromo-3-Chloropropane	14.2		1	0.53	0.75	1.00	ug/L	10/21/25 10:06	VX102125
120-82-1	1,2,4-Trichlorobenzene	15.2		1	0.20	0.50	1.00	ug/L	10/21/25 10:06	VX102125
87-61-6	1,2,3-Trichlorobenzene	15.5		1	0.20	0.75	1.00	ug/L	10/21/25 10:06	VX102125
SURROGATES										
17060-07-0	1,2-Dichloroethane-d4	49.2			81 - 118		98%	SPK: 50		
1868-53-7	Dibromofluoromethane	49.3			80 - 119		99%	SPK: 50		
2037-26-5	Toluene-d8	47.8			89 - 112		96%	SPK: 50		
460-00-4	4-Bromofluorobenzene	49.7			85 - 114		99%	SPK: 50		
INTERNAL STANDARDS		**Area Count**								
363-72-4	Pentafluorobenzene	141000								
540-36-3	1,4-Difluorobenzene	230000								
3114-55-4	Chlorobenzene-d5	212000								
3855-82-1	1,4-Dichlorobenzene-d4	111000								

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

Sample Results: **VX048255.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048255.D
Acq On : 21 Oct 2025 10:06
Operator : JC/MD
Sample : VX1021WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 24 04:23:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	141199	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.738	114	230109	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	212342	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	110789	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	97363	49.180	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 98.360%			
35) Dibromofluoromethane	5.367	113	77378	49.256	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.520%			
50) Toluene-d8	8.628	98	263067	47.776	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 95.560%			
62) 4-Bromofluorobenzene	11.061	95	104113	49.702	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 99.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.178	85	24401	16.810	ug/l	98
3) Chloromethane	1.300	50	24074	17.768	ug/l	98
4) Vinyl Chloride	1.380	62	22127	17.636	ug/l	98
5) Bromomethane	1.617	94	16447	19.316	ug/l	99
6) Chloroethane	1.697	64	13922	18.884	ug/l	91
7) Trichlorofluoromethane	1.898	101	42595	17.702	ug/l	99
8) Diethyl Ether	2.136	74	12470	18.418	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.337	101	26749	17.555	ug/l	96
10) Methyl Iodide	2.453	142	32960	17.207	ug/l	100
11) Tert butyl alcohol	2.940	59	13580	69.088	ug/l #	85
12) 1,1-Dichloroethene	2.325	96	26679	17.997	ug/l	89
13) Acrolein	2.233	56	19860	99.067	ug/l	99
14) Allyl chloride	2.666	41	43917	17.844	ug/l	97
15) Acrylonitrile	3.056	53	59914	84.532	ug/l	99
16) Acetone	2.373	43	55899	82.307	ug/l	97
17) Carbon Disulfide	2.514	76	77662	16.623	ug/l	97
18) Methyl Acetate	2.696	43	24826	17.503	ug/l	97
19) Methyl tert-butyl Ether	3.105	73	89211	17.640	ug/l	95
20) Methylene Chloride	2.788	84	31545	19.062	ug/l	94
21) trans-1,2-Dichloroethene	3.093	96	29134	17.892	ug/l	97
22) Diisopropyl ether	3.745	45	95604	19.476	ug/l	91
23) Vinyl Acetate	3.708	43	367608	93.748	ug/l	97
24) 1,1-Dichloroethane	3.605	63	54562	18.382	ug/l	98
25) 2-Butanone	4.538	43	73253	85.214	ug/l	100
26) 2,2-Dichloropropane	4.464	77	47833	17.854	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	35928	18.906	ug/l	98
28) Bromochloromethane	4.879	49	26532	21.558	ug/l	88
29) Tetrahydrofuran	4.983	42	43984	85.433	ug/l	97
30) Chloroform	5.074	83	59628	18.803	ug/l	98
31) Cyclohexane	5.452	56	47112	19.171	ug/l	94
32) 1,1,1-Trichloroethane	5.367	97	52848	18.082	ug/l	98
36) 1,1-Dichloropropene	5.678	75	40242	18.023	ug/l	100
37) Ethyl Acetate	4.690	43	32251	17.426	ug/l	98
38) Carbon Tetrachloride	5.665	117	46896	17.024	ug/l	98
39) Methylcyclohexane	7.360	83	44764	16.976	ug/l	95
40) Benzene	6.019	78	120185	18.540	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048255.D
Acq On : 21 Oct 2025 10:06
Operator : JC/MD
Sample : VX1021WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 24 04:23:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.897	41	17591	18.099	ug/l		97
42) 1,2-Dichloroethane	6.062	62	45577	19.053	ug/l		99
43) Isopropyl Acetate	6.318	43	52903	17.402	ug/l		96
44) Trichloroethene	7.110	130	30995	18.107	ug/l		99
45) 1,2-Dichloropropane	7.415	63	29673	19.252	ug/l		95
46) Dibromomethane	7.567	93	22037	18.352	ug/l		94
47) Bromodichloromethane	7.799	83	48240	18.606	ug/l		99
48) Methyl methacrylate	7.677	41	26320	17.158	ug/l		94
49) 1,4-Dioxane	7.647	88	5926	292.405	ug/l	#	88
51) 4-Methyl-2-Pentanone	8.555	43	152275	86.877	ug/l		96
52) Toluene	8.701	92	77240	18.755	ug/l		99
53) t-1,3-Dichloropropene	8.964	75	46020	18.419	ug/l		99
54) cis-1,3-Dichloropropene	8.348	75	50705	18.810	ug/l		95
55) 1,1,2-Trichloroethane	9.134	97	29313	19.140	ug/l		98
56) Ethyl methacrylate	9.098	69	39990	17.852	ug/l		93
57) 1,3-Dichloropropane	9.293	76	50123	19.160	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.226	63	98096	82.586	ug/l		96
59) 2-Hexanone	9.415	43	104997	85.909	ug/l		96
60) Dibromochloromethane	9.500	129	37288	18.114	ug/l		99
61) 1,2-Dibromoethane	9.592	107	30294	18.554	ug/l		98
64) Tetrachloroethene	9.256	164	26804	16.909	ug/l		99
65) Chlorobenzene	10.061	112	85855	17.974	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.146	131	30819	17.566	ug/l		98
67) Ethyl Benzene	10.177	91	144956	17.824	ug/l		98
68) m/p-Xylenes	10.287	106	111086	36.763	ug/l		99
69) o-Xylene	10.622	106	52686	18.060	ug/l		97
70) Styrene	10.634	104	93575	18.838	ug/l		99
71) Bromoform	10.780	173	23770	16.952	ug/l	#	99
73) Isopropylbenzene	10.945	105	138728	17.144	ug/l		100
74) N-amyl acetate	10.823	43	46339	16.144	ug/l		96
75) 1,1,2,2-Tetrachloroethane	11.195	83	38121	17.251	ug/l		100
76) 1,2,3-Trichloropropane	11.219	75	33965m	18.905	ug/l		
77) Bromobenzene	11.177	156	34669	17.087	ug/l		94
78) n-propylbenzene	11.286	91	161765	17.266	ug/l		98
79) 2-Chlorotoluene	11.347	91	98234	17.293	ug/l		98
80) 1,3,5-Trimethylbenzene	11.433	105	114762	17.137	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	12207	16.530	ug/l		96
82) 4-Chlorotoluene	11.433	91	115993	17.202	ug/l		97
83) tert-Butylbenzene	11.695	119	117710	17.108	ug/l		95
84) 1,2,4-Trimethylbenzene	11.731	105	114927	17.197	ug/l		100
85) sec-Butylbenzene	11.872	105	138342	16.712	ug/l		99
86) p-Isopropyltoluene	11.987	119	119237	16.665	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	65615	17.154	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	65796	16.604	ug/l		98
89) n-Butylbenzene	12.317	91	103383	15.875	ug/l		99
90) Hexachloroethane	12.518	117	22360	15.825	ug/l		96
91) 1,2-Dichlorobenzene	12.317	146	61839	17.219	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.926	75	6372	14.205	ug/l		96
93) 1,2,4-Trichlorobenzene	13.566	180	36955	15.216	ug/l		98
94) Hexachlorobutadiene	13.707	225	14253	15.707	ug/l		97
95) Naphthalene	13.755	128	98736	15.345	ug/l		100
96) 1,2,3-Trichlorobenzene	13.944	180	34440	15.454	ug/l		97

Sample Results: **VX048255.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048255.D
Acq On : 21 Oct 2025 10:06
Operator : JC/MD
Sample : VX1021WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

Quant Time: Oct 24 04:23:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

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

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

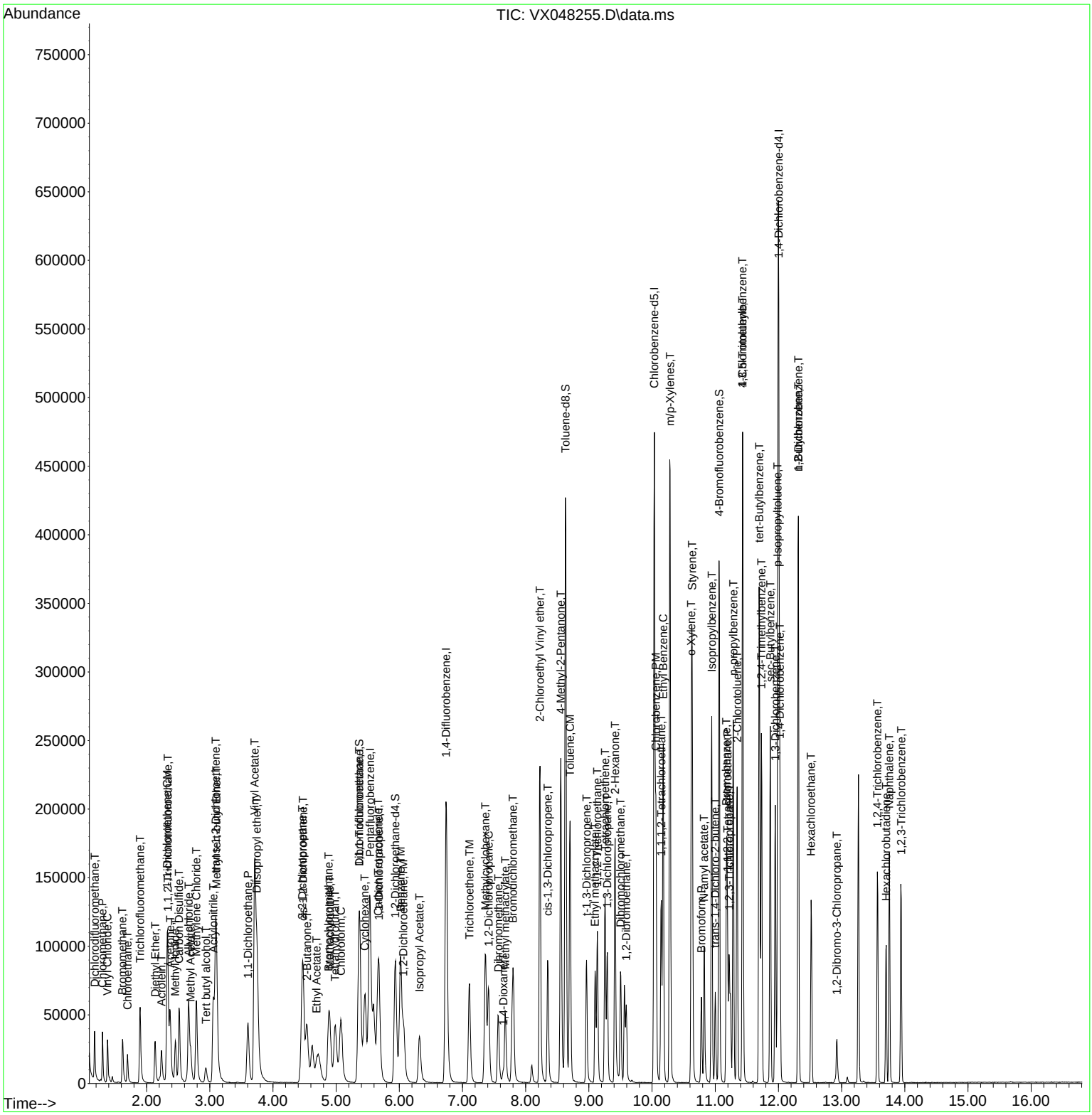
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048255.D
Acq On : 21 Oct 2025 10:06
Operator : JC/MD
Sample : VX1021WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

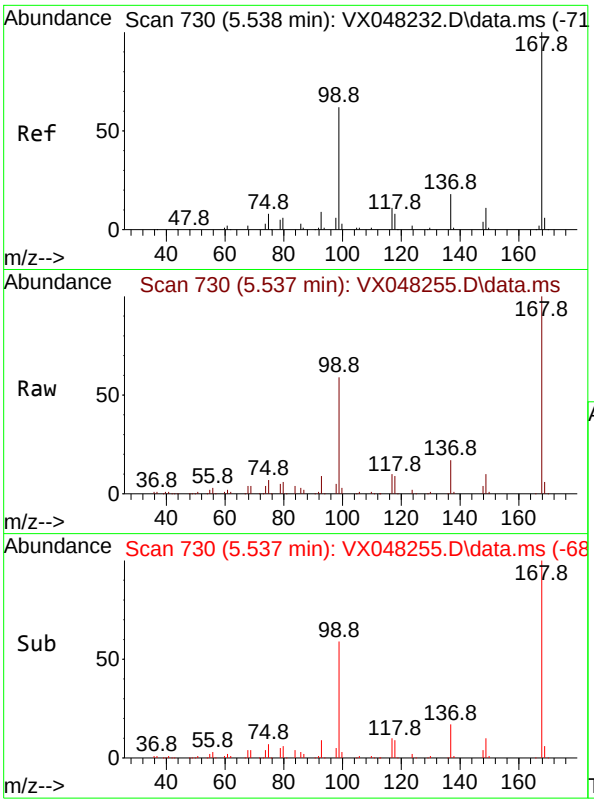
Quant Time: Oct 24 04:23:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

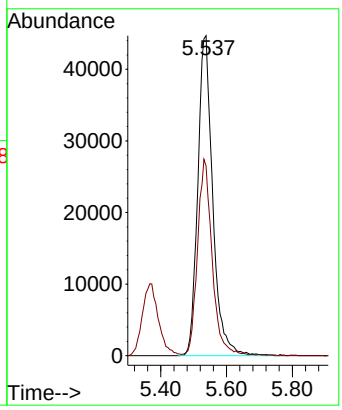




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:168 Resp: 14119

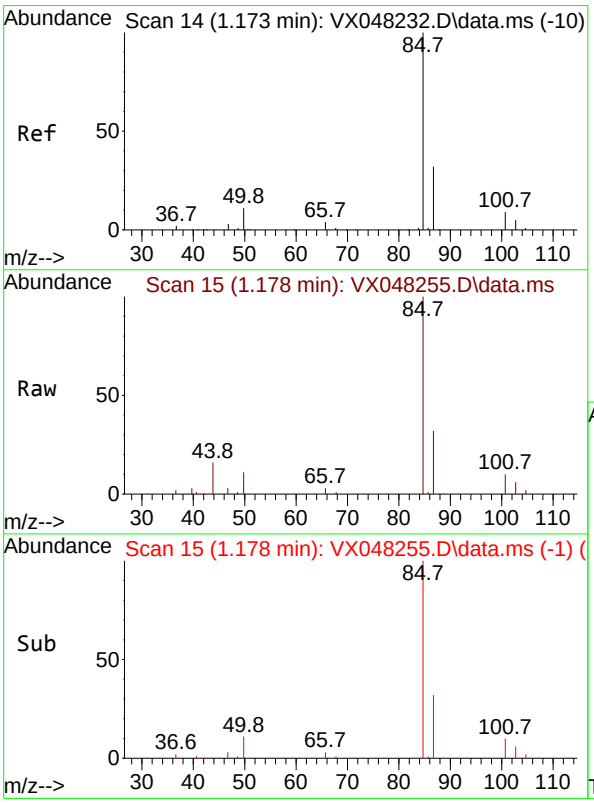
Ion	Ratio	Lower	Upper
168	100		
99	59.3	46.4	69.6



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

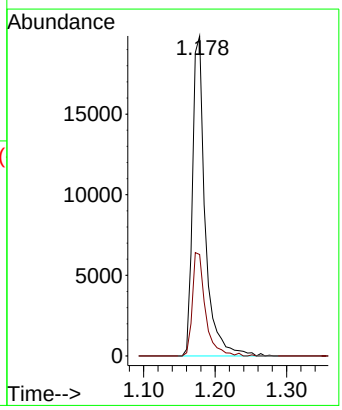
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

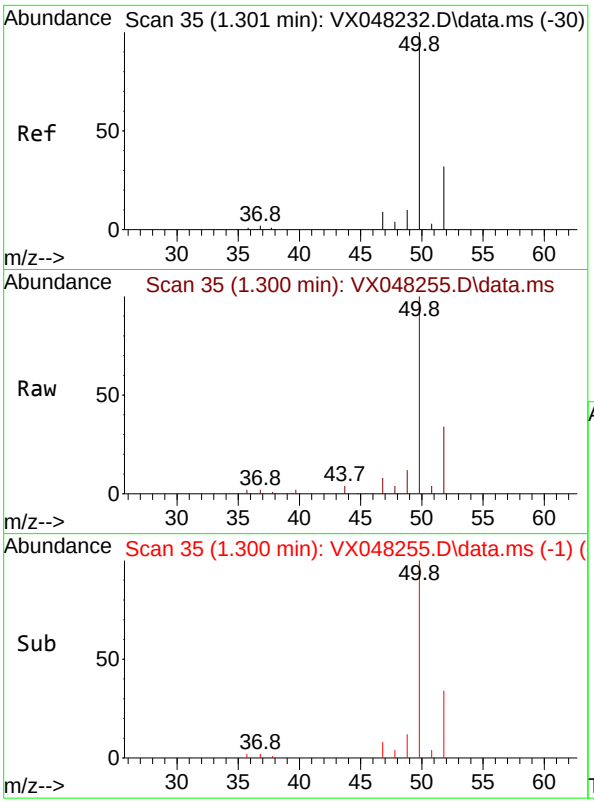


#2
Dichlorodifluoromethane
Concen: 16.810 ug/l
RT: 1.178 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 85 Resp: 24401

Ion	Ratio	Lower	Upper
85	100		
87	31.7	15.3	45.9

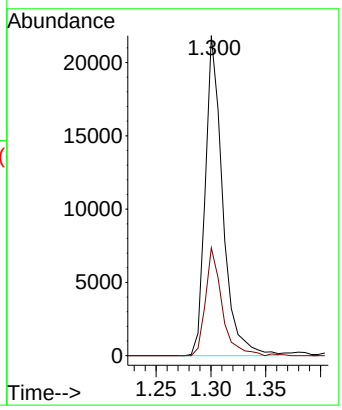




#3
Chloromethane
Concen: 17.768 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 50 Resp: 2407

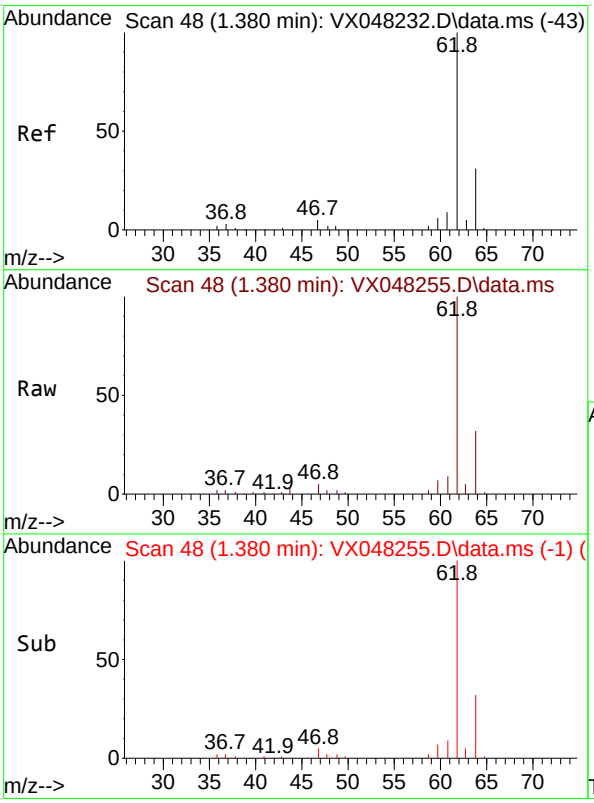
Ion	Ratio	Lower	Upper
50	100		
52	33.7	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

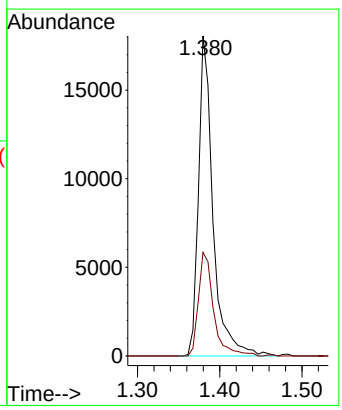
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

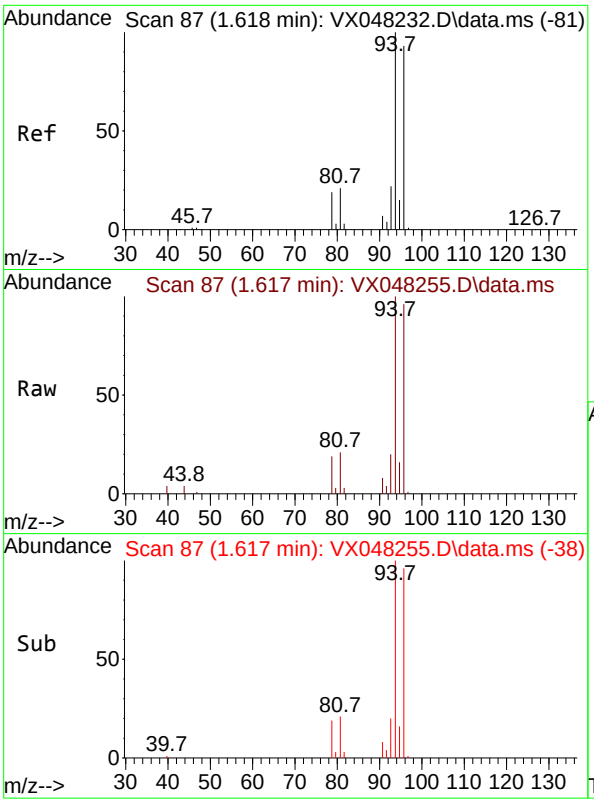


#4
Vinyl Chloride
Concen: 17.636 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 62 Resp: 22127

Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.1	37.7

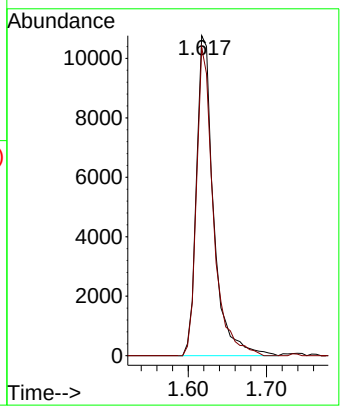




#5
Bromomethane
Concen: 19.316 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 94 Resp: 1644

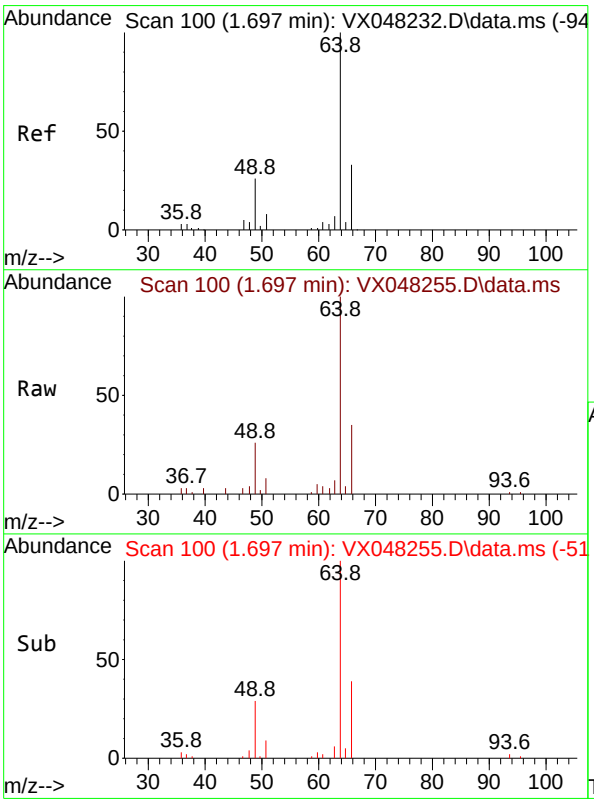
Ion	Ratio	Lower	Upper
94	100		
96	96.3	76.0	114.0



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

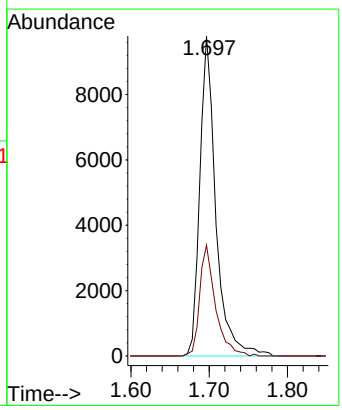
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

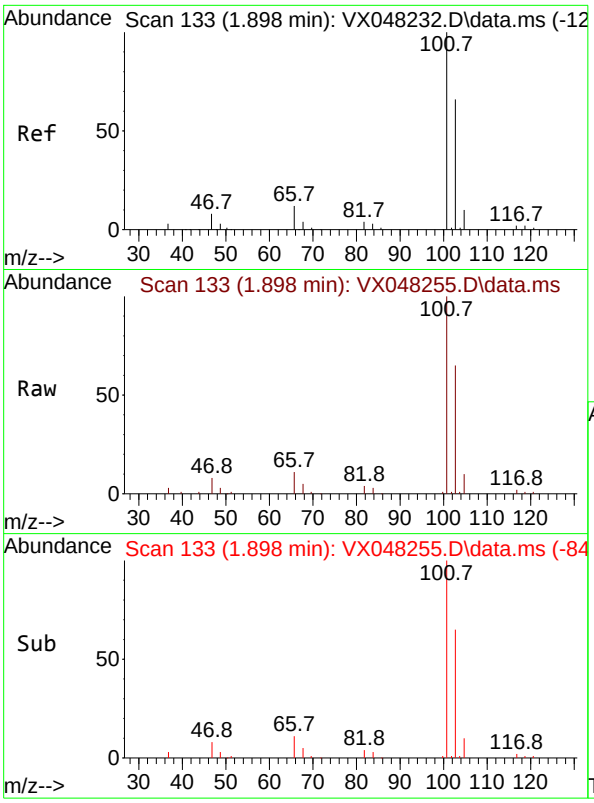


#6
Chloroethane
Concen: 18.884 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 64 Resp: 13922

Ion	Ratio	Lower	Upper
64	100		
66	34.6	23.9	35.9

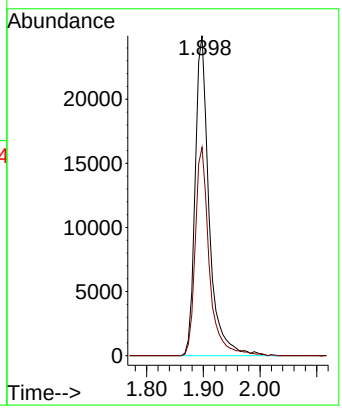




#7
Trichlorofluoromethane
Concen: 17.702 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:101 Resp: 4259

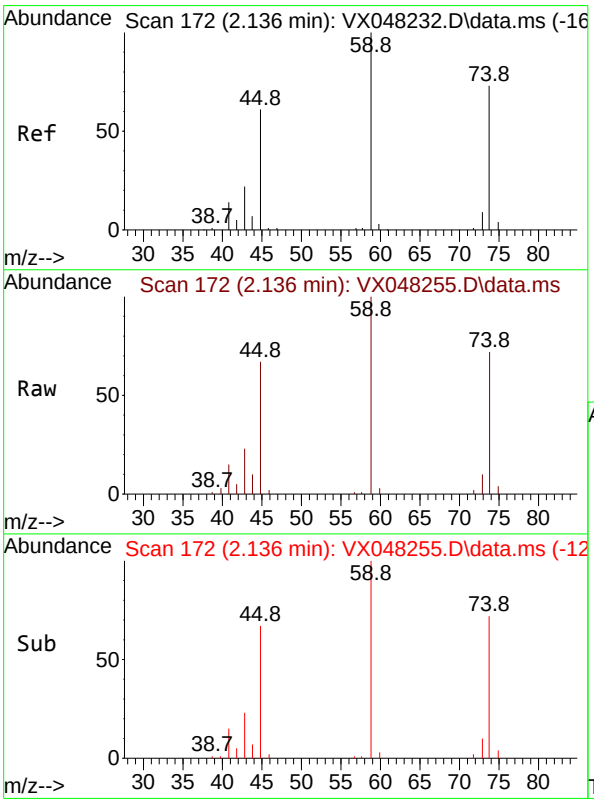
Ion	Ratio	Lower	Upper
101	100		
103	65.1	51.6	77.4



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

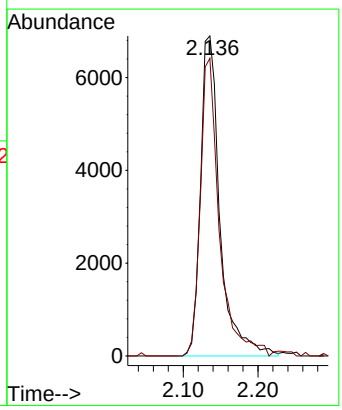
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

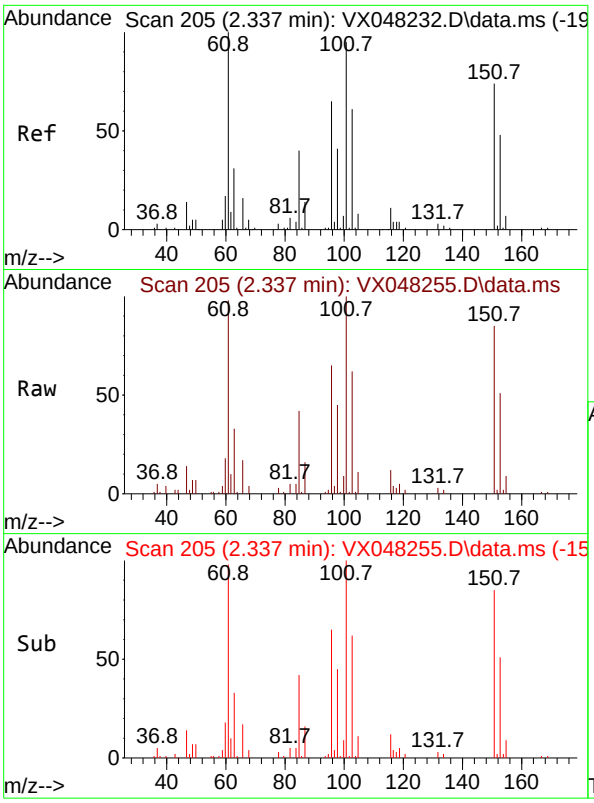


#8
Diethyl Ether
Concen: 18.418 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 74 Resp: 12470

Ion	Ratio	Lower	Upper
74	100		
45	91.2	50.0	149.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.555 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

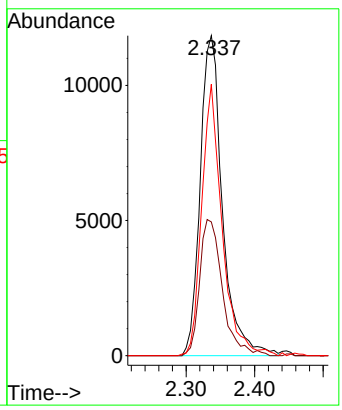
Tgt Ion:101 Resp: 2674

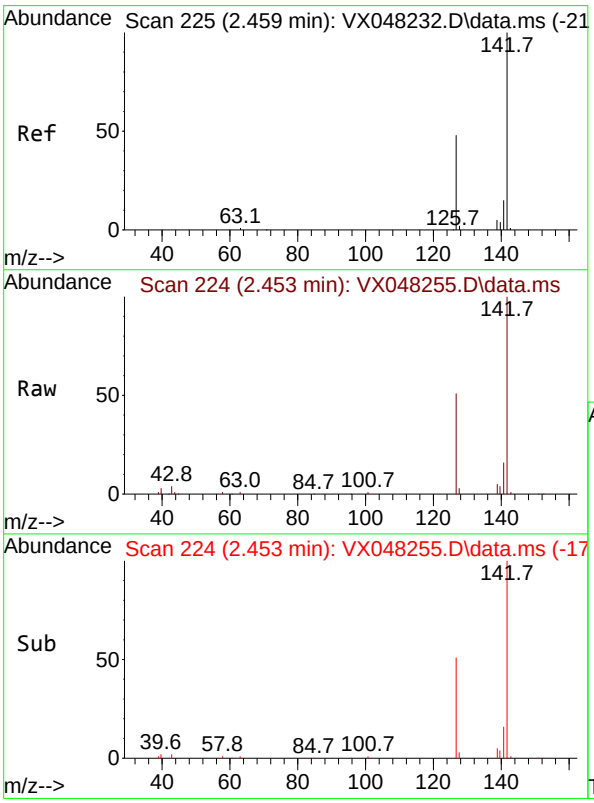
Ion	Ratio	Lower	Upper
101	100		
85	43.6	35.6	53.4
151	77.6	58.0	87.0

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

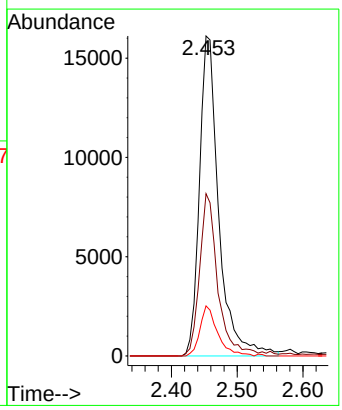


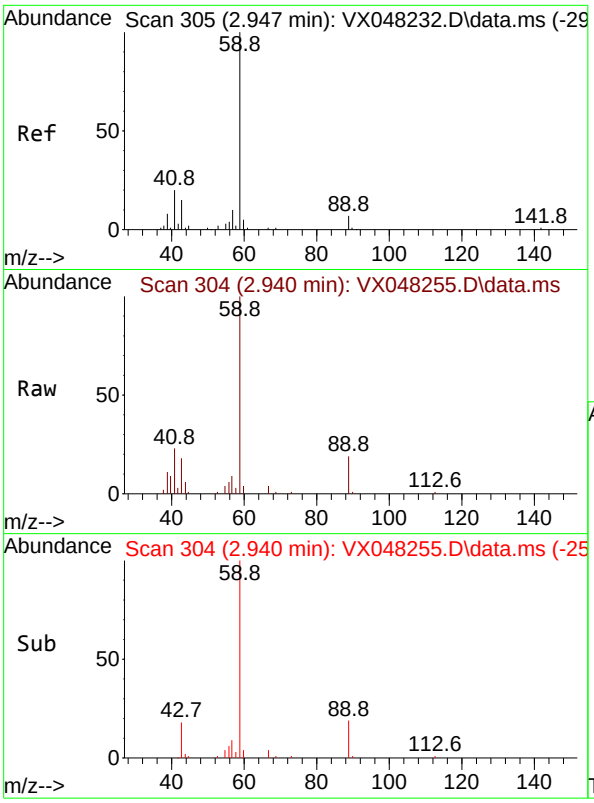


#10
Methyl Iodide
Concen: 17.207 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:142 Resp: 32960

Ion	Ratio	Lower	Upper
142	100		
127	48.3	38.5	57.7
141	14.3	11.6	17.4

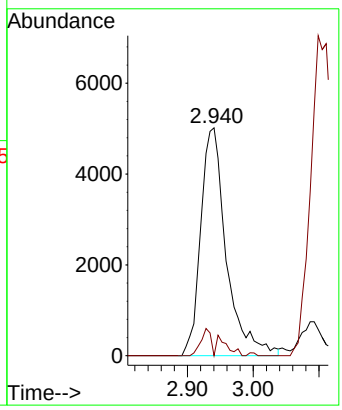




#11
Tert butyl alcohol
Concen: 69.088 ug/l
RT: 2.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 59 Resp: 1358

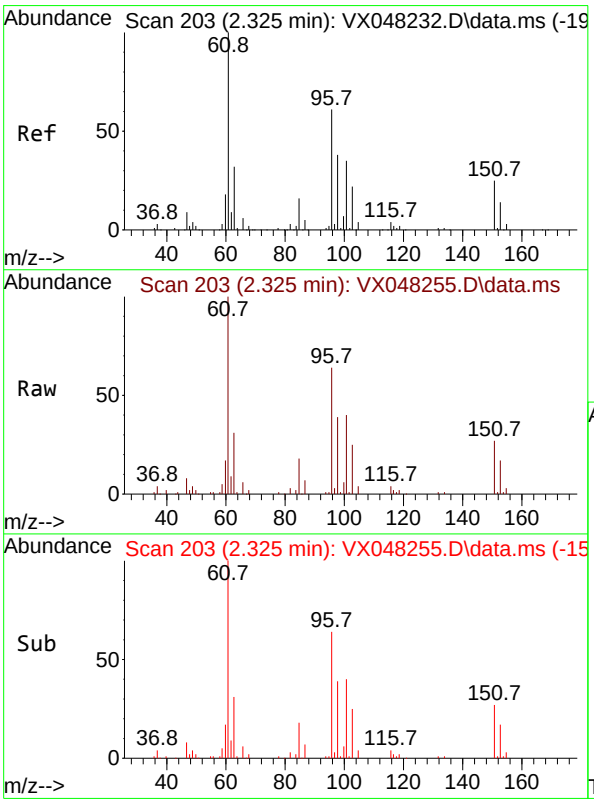
Ion	Ratio	Lower	Upper
59	100		
57	4.6	8.2	12.4



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

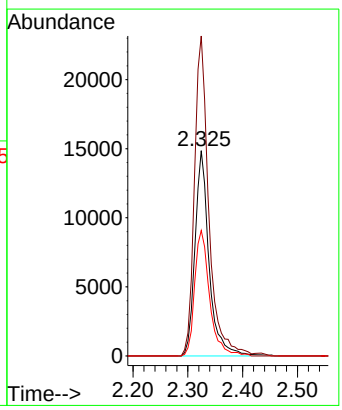
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

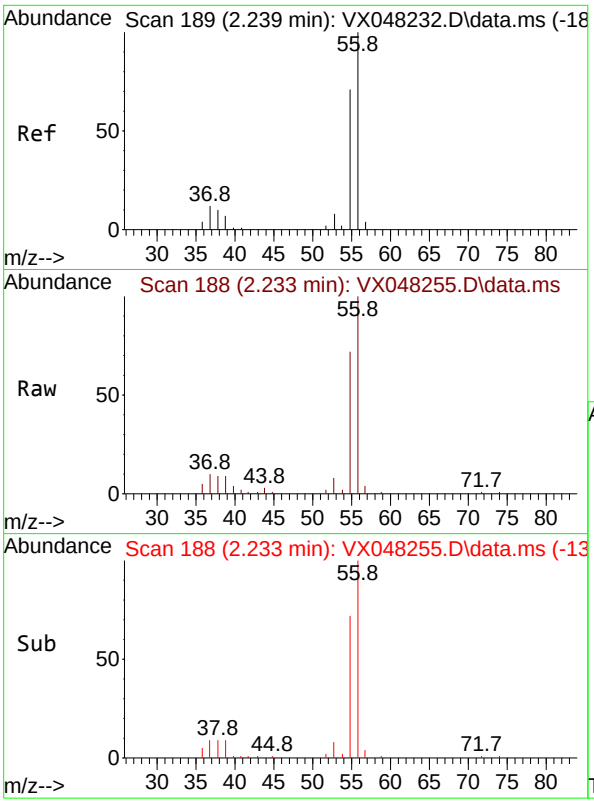


#12
1,1-Dichloroethene
Concen: 17.997 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 96 Resp: 26679

Ion	Ratio	Lower	Upper
96	100		
61	155.9	139.0	208.6
98	61.1	52.4	78.6

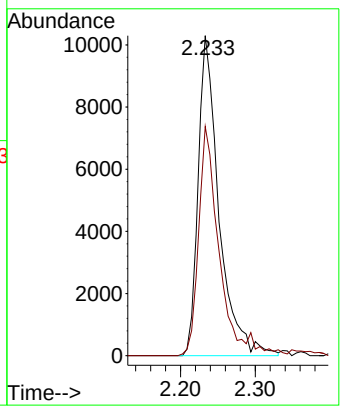




#13
Acrolein
Concen: 99.067 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 56 Resp: 1986

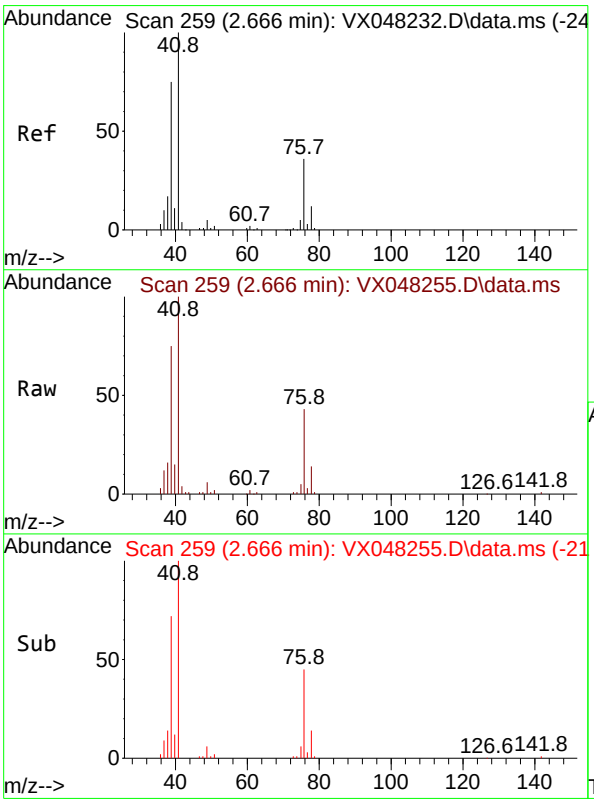
Ion	Ratio	Lower	Upper
56	100		
55	71.1	56.1	84.1



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

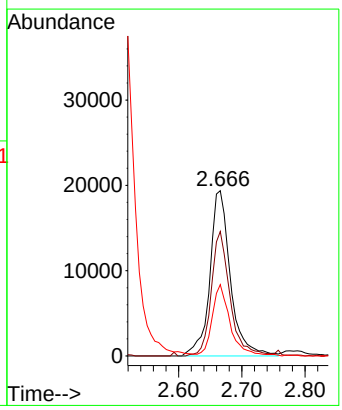
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

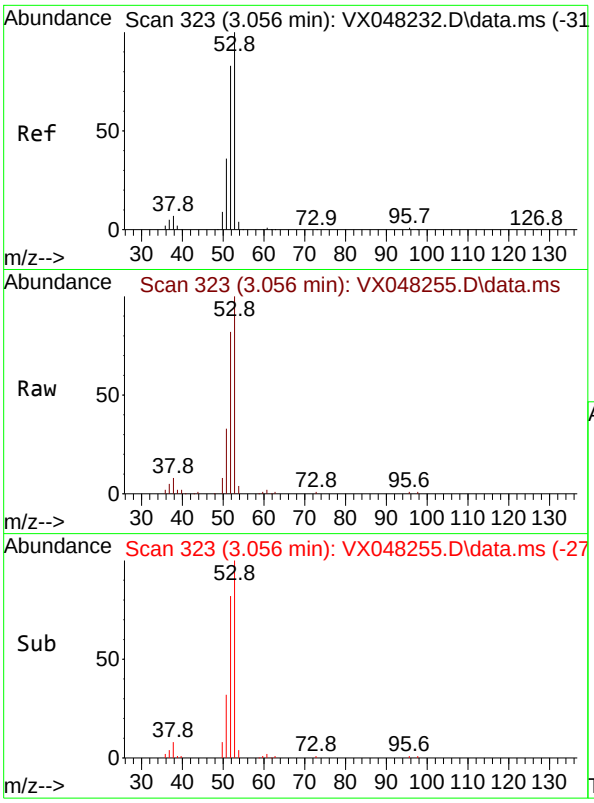


#14
Allyl chloride
Concen: 17.844 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 41 Resp: 43917

Ion	Ratio	Lower	Upper
41	100		
39	68.3	56.0	84.0
76	37.7	27.5	41.3

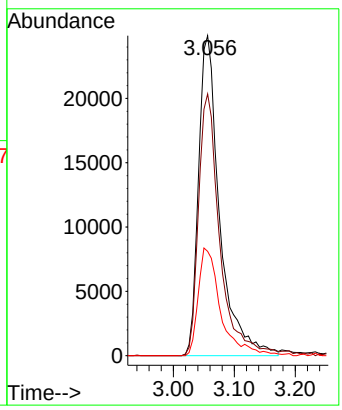




#15
Acrylonitrile
Concen: 84.532 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 53 Resp: 5991

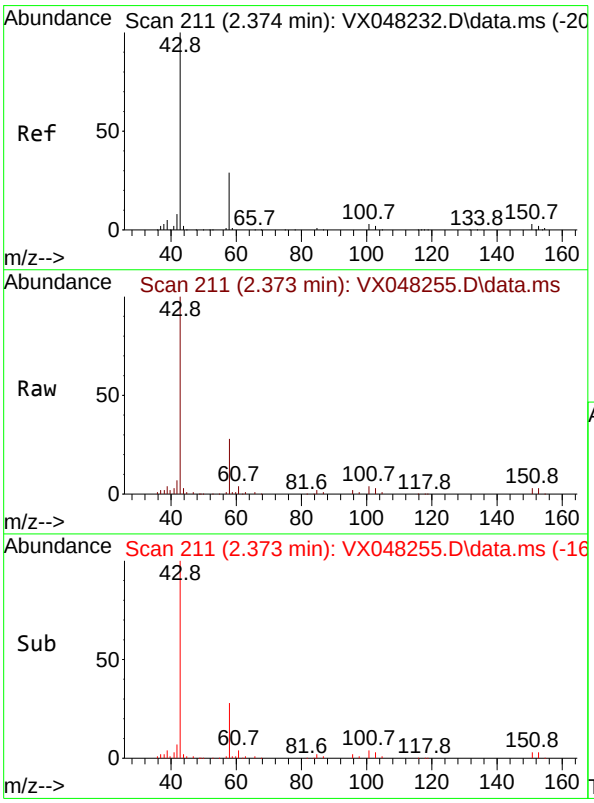
Ion	Ratio	Lower	Upper
53	100		
52	82.0	66.1	99.1
51	36.0	29.0	43.4



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

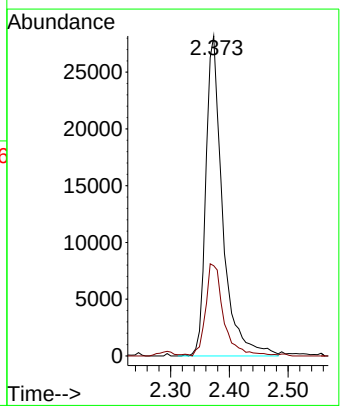
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

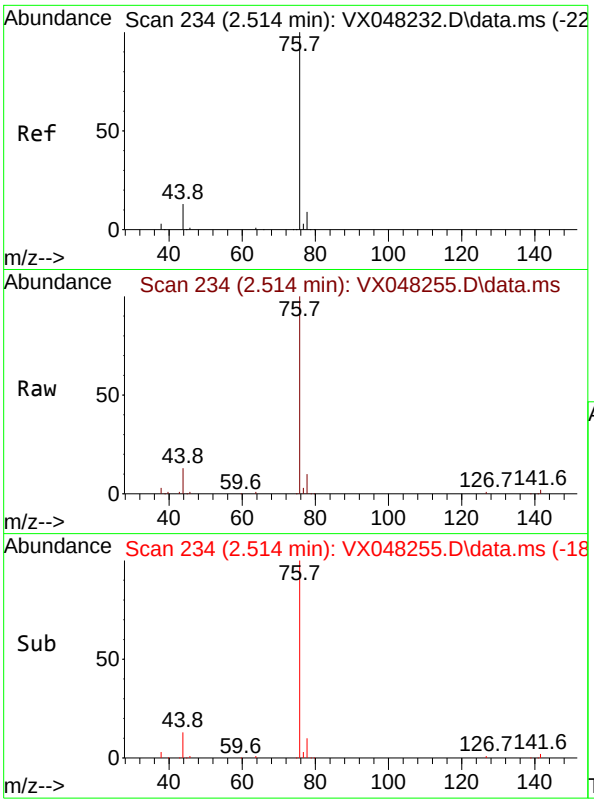


#16
Acetone
Concen: 82.307 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 43 Resp: 55899

Ion	Ratio	Lower	Upper
43	100		
58	27.8	23.4	35.2





#17
Carbon Disulfide
Concen: 16.623 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

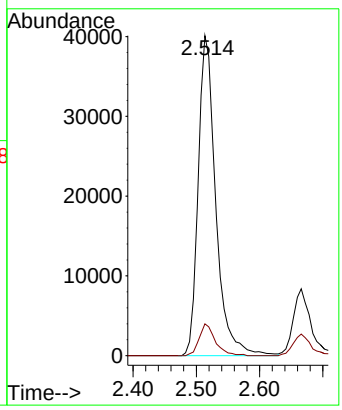
Tgt Ion: 76 Resp: 7766

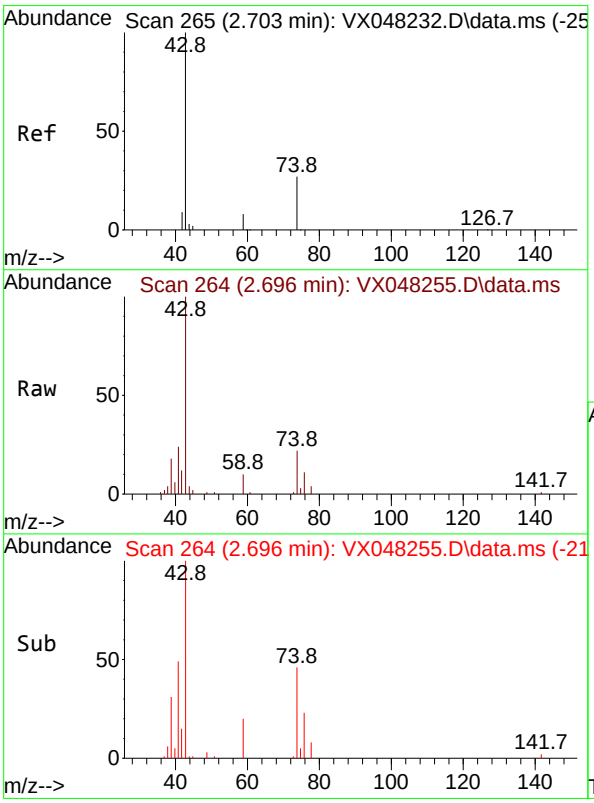
Ion	Ratio	Lower	Upper
76	100		
78	9.9	7.1	10.7

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

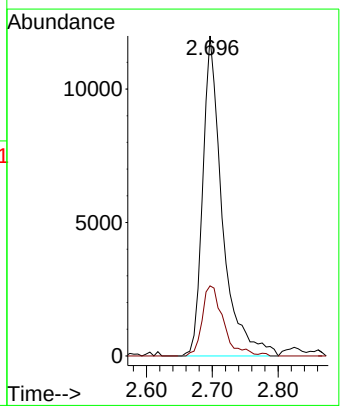


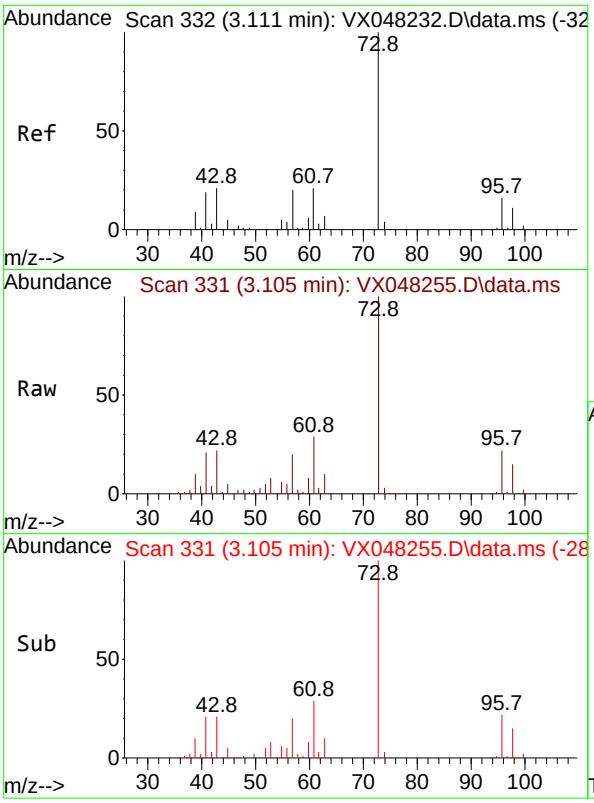


#18
Methyl Acetate
Concen: 17.503 ug/l
RT: 2.696 min Scan# 264
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 43 Resp: 24826

Ion	Ratio	Lower	Upper
43	100		
74	23.6	17.5	26.3

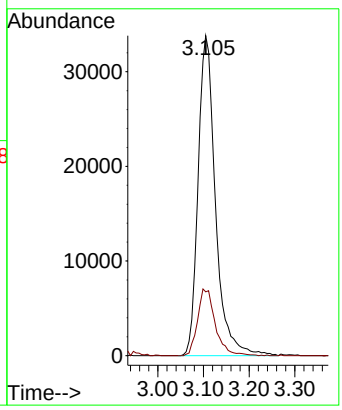




#19
Methyl tert-butyl Ether
Concen: 17.640 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 73 Resp: 8921

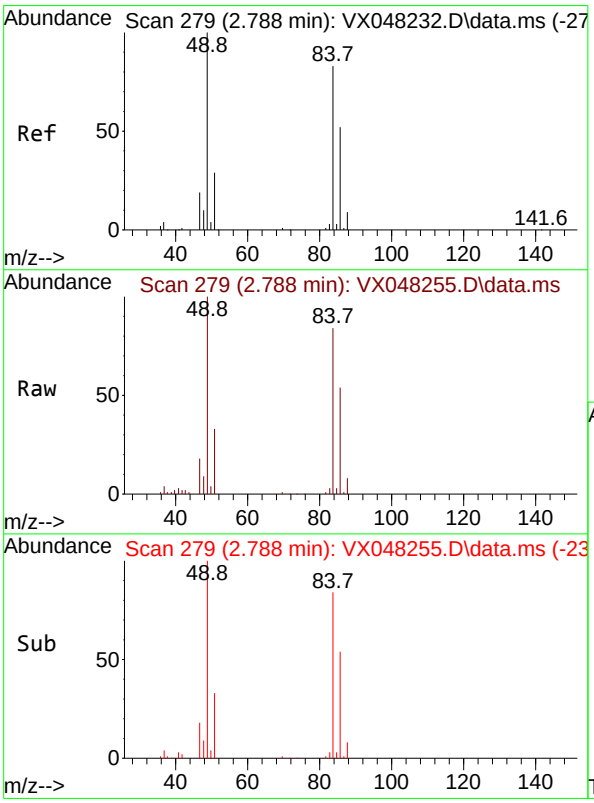
Ion	Ratio	Lower	Upper
73	100		
57	19.9	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

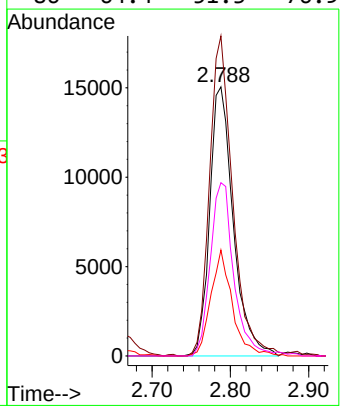
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

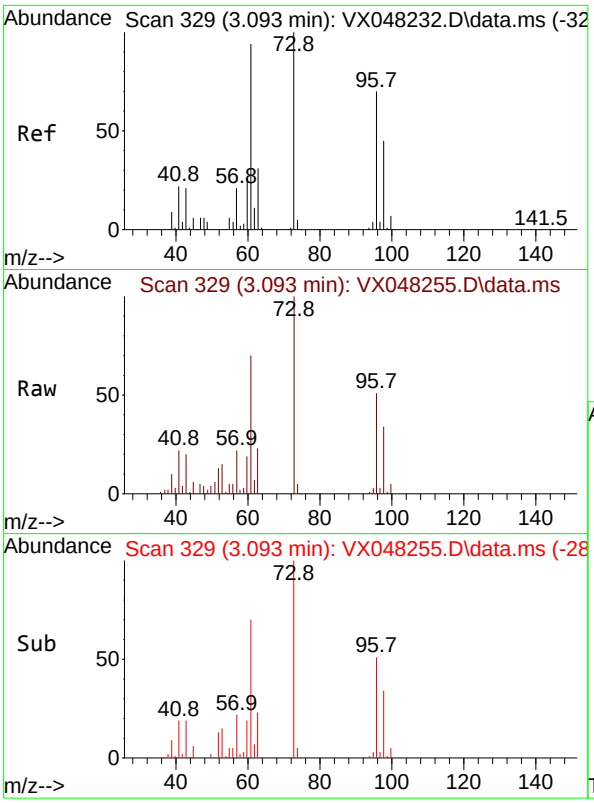


#20
Methylene Chloride
Concen: 19.062 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 84 Resp: 31545

Ion	Ratio	Lower	Upper
84	100		
49	118.9	104.1	156.1
51	39.3	31.3	46.9
86	64.4	51.3	76.9





#21
trans-1,2-Dichloroethene
Concen: 17.892 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

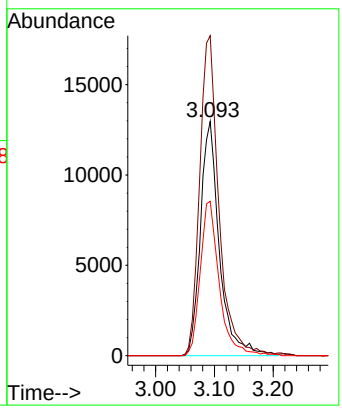
Tgt Ion: 96 Resp: 2913

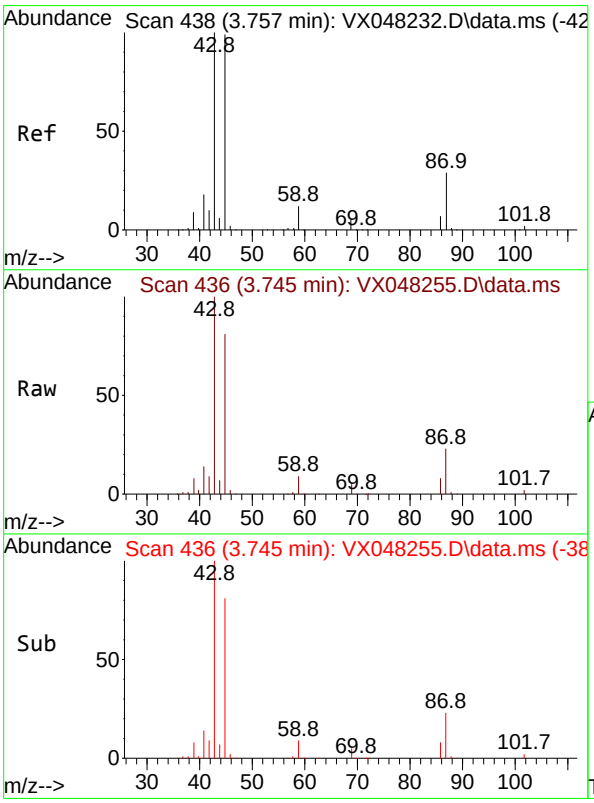
Ion	Ratio	Lower	Upper
96	100		
61	136.6	111.9	167.9
98	66.0	51.2	76.8

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

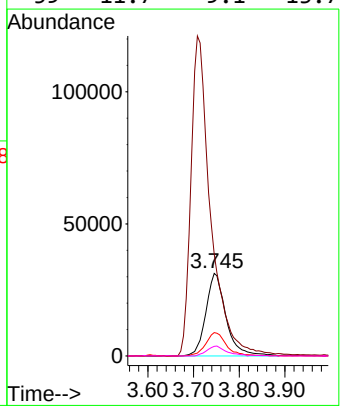


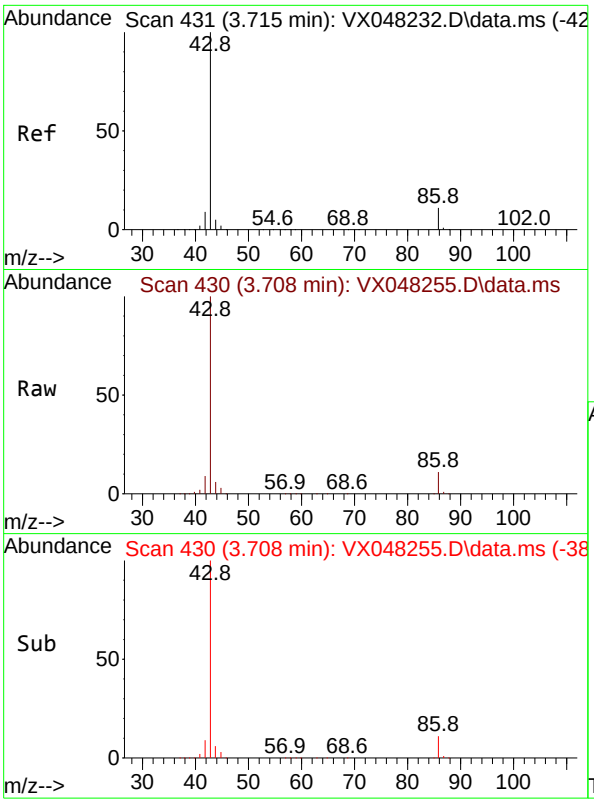


#22
Diisopropyl ether
Concen: 19.476 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 45 Resp: 95604

Ion	Ratio	Lower	Upper
45	100		
43	123.5	89.8	134.8
87	28.3	20.6	31.0
59	11.7	9.1	13.7





#23
Vinyl Acetate
Concen: 93.748 ug/l
RT: 3.708 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

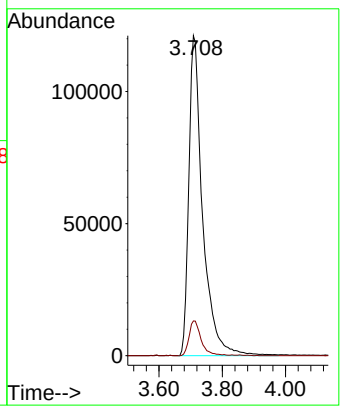
Tgt Ion: 43 Resp: 36760

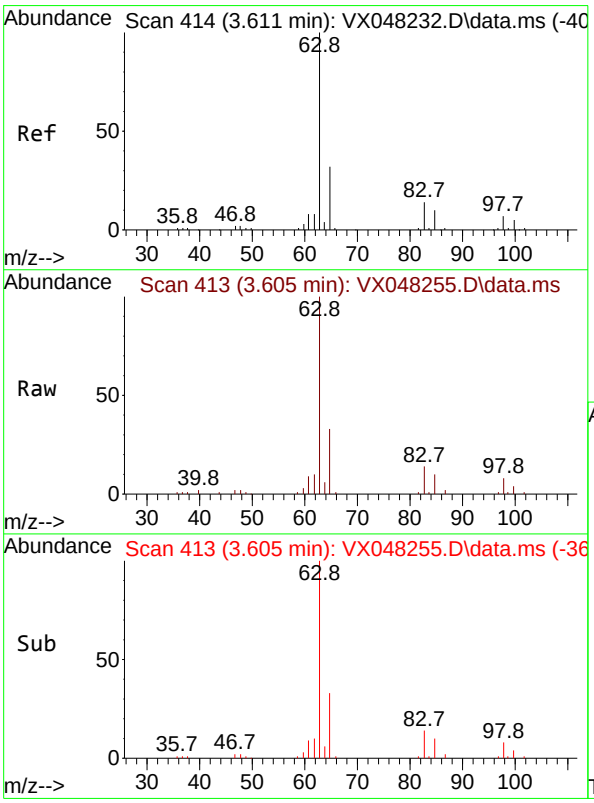
Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

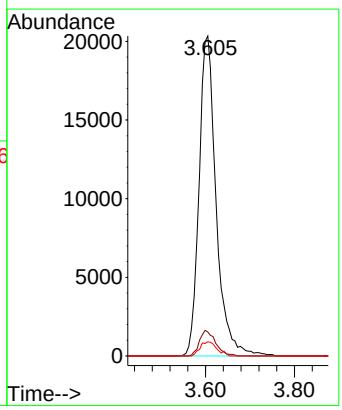


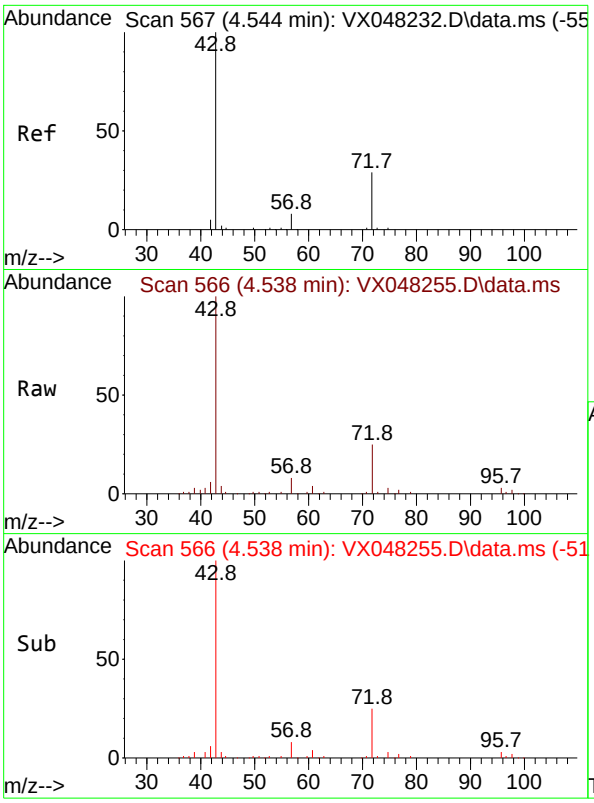


#24
1,1-Dichloroethane
Concen: 18.382 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 63 Resp: 54562

Ion	Ratio	Lower	Upper
63	100		
98	8.3	3.5	10.6
100	4.4	2.1	6.3





#25
2-Butanone
Concen: 85.214 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

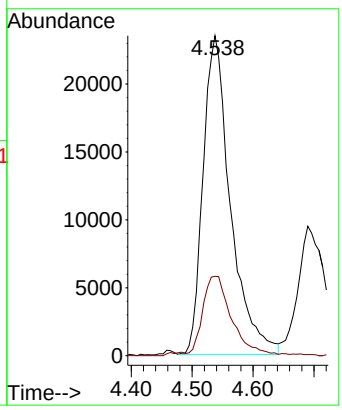
Tgt Ion: 43 Resp: 7325

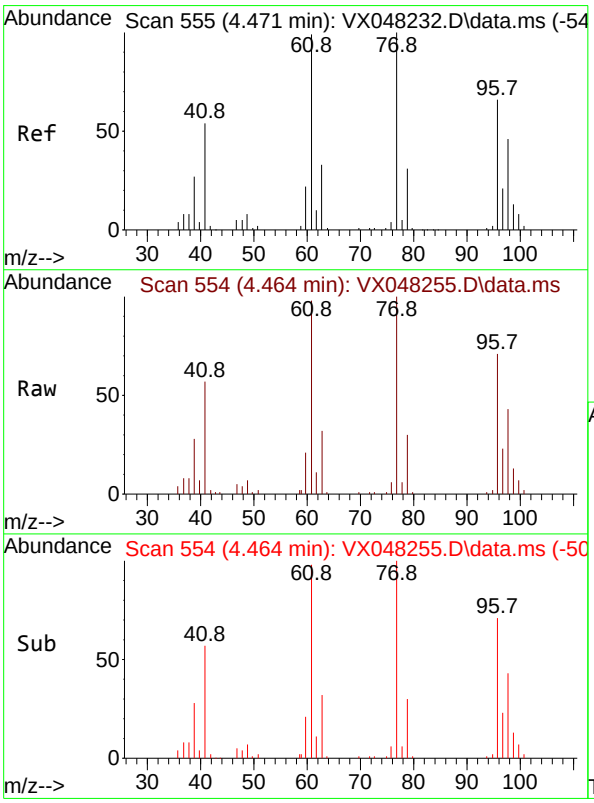
Ion	Ratio	Lower	Upper
43	100		
72	24.7	19.9	29.9

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

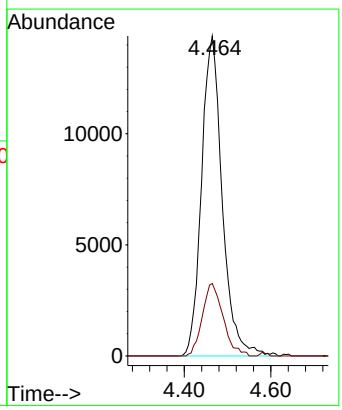


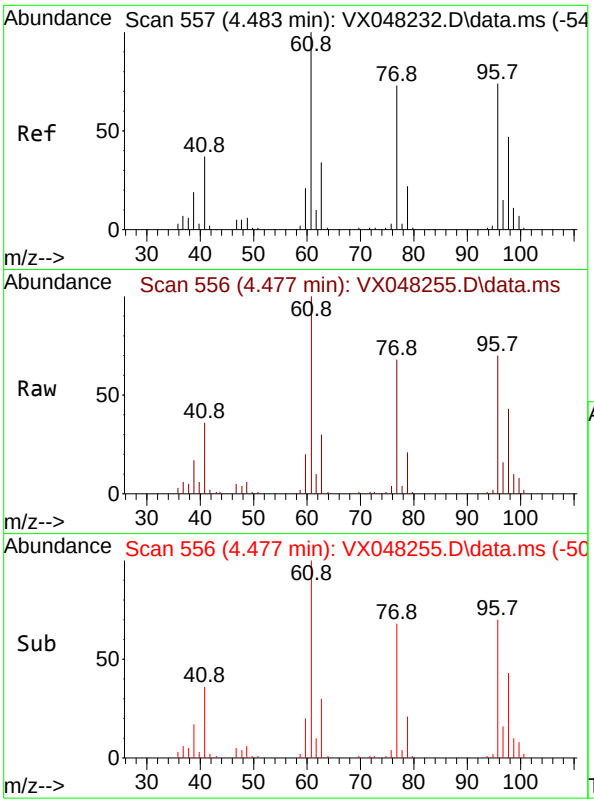


#26
2,2-Dichloropropane
Concen: 17.854 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 77 Resp: 47833

Ion	Ratio	Lower	Upper
77	100		
97	22.7	11.1	33.3





#27
cis-1,2-Dichloroethene
Concen: 18.906 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

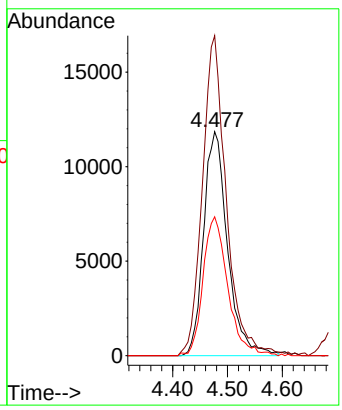
Tgt Ion: 96 Resp: 3592

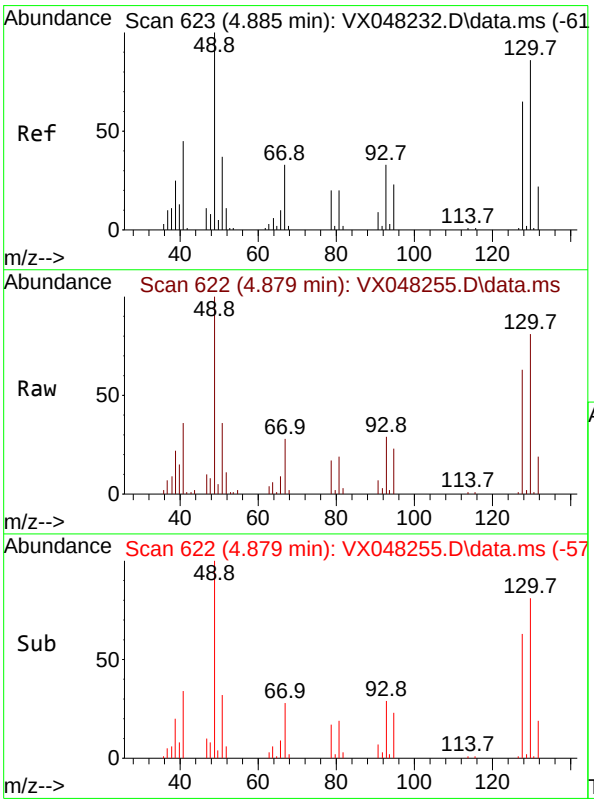
Ion	Ratio	Lower	Upper
96	100		
61	142.8	0.0	294.2
98	64.0	0.0	128.4

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

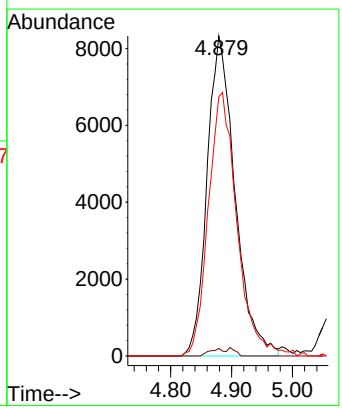


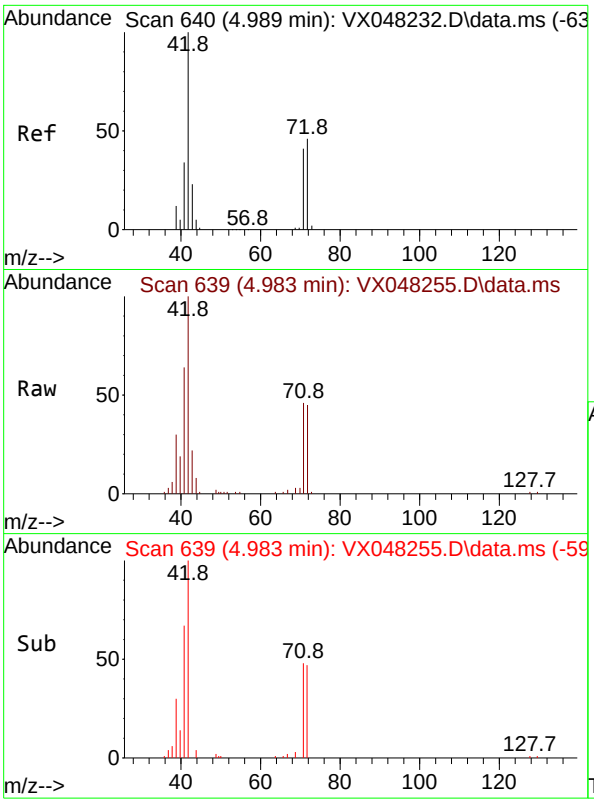


#28
Bromochloromethane
Concen: 21.558 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 49 Resp: 26532

Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	4.4
130	84.6	59.3	88.9





#29
Tetrahydrofuran
Concen: 85.433 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

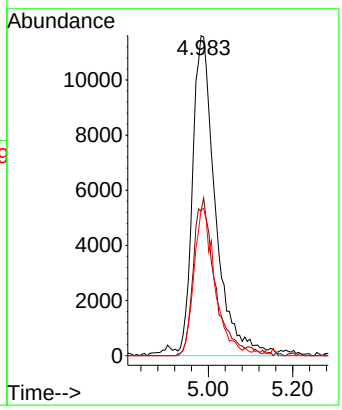
Tgt Ion: 42 Resp: 4398

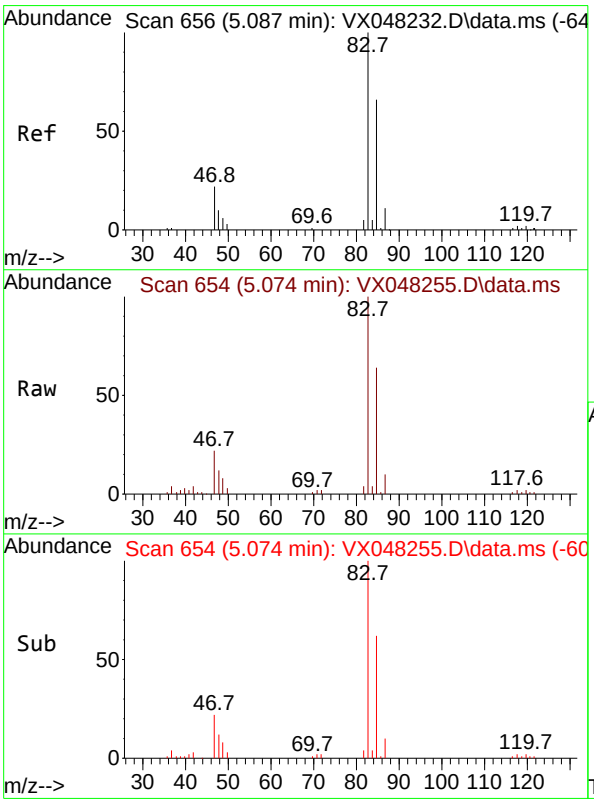
Ion	Ratio	Lower	Upper
42	100		
72	45.6	35.3	52.9
71	42.9	32.2	48.4

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

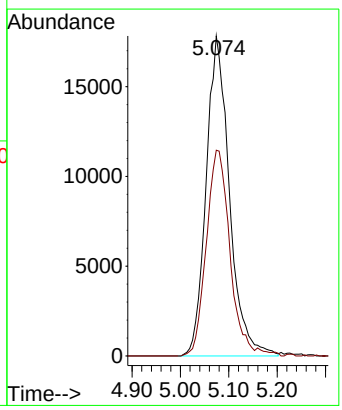


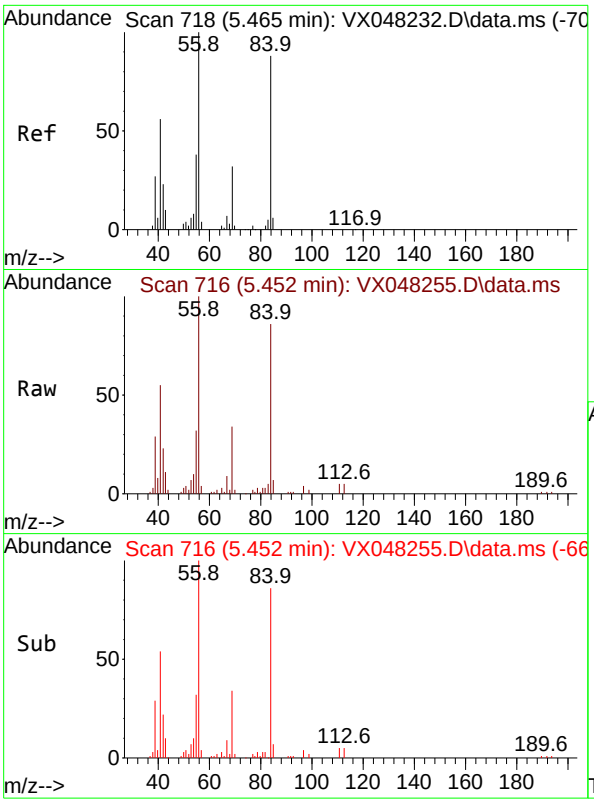


#30
Chloroform
Concen: 18.803 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 83 Resp: 59628

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.1	75.1





#31
Cyclohexane
Concen: 19.171 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

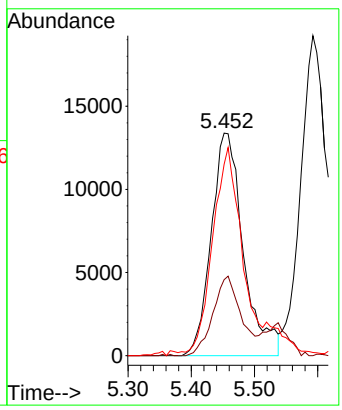
Tgt Ion: 56 Resp: 4711

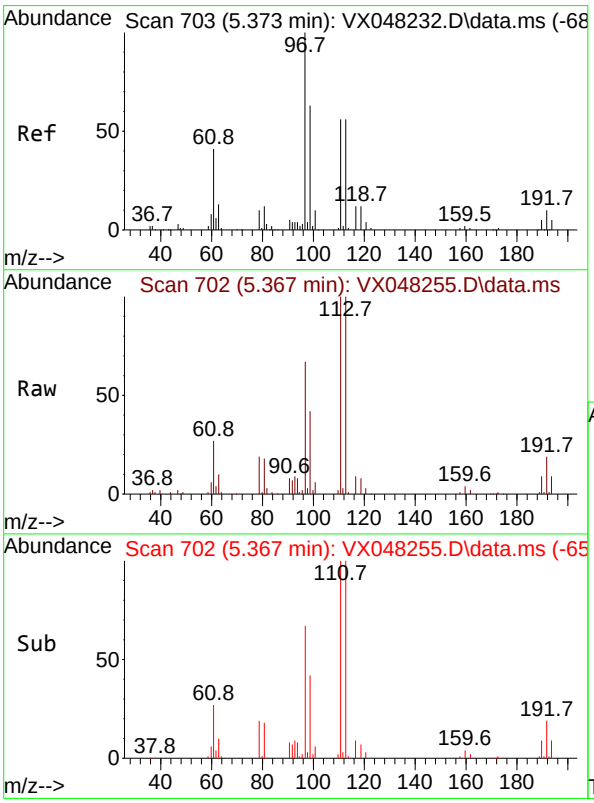
Ion	Ratio	Lower	Upper
56	100		
69	34.2	23.0	34.6
84	84.6	64.6	97.0

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

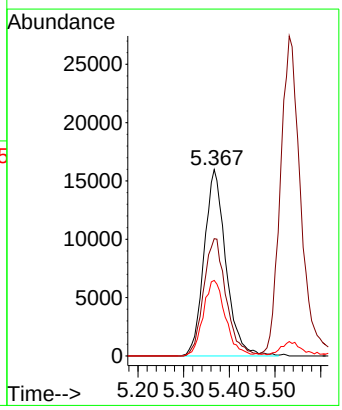


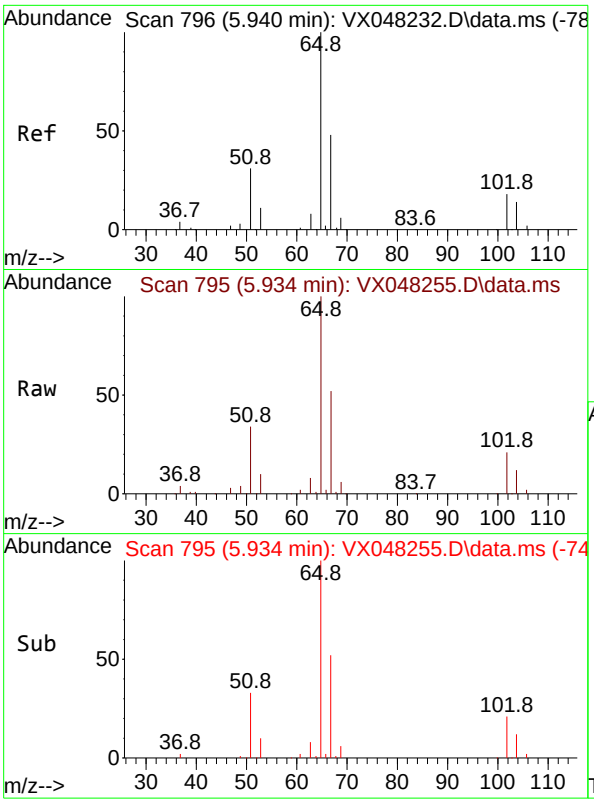


#32
1,1,1-Trichloroethane
Concen: 18.082 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 97 Resp: 52848

Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.7	77.5
61	41.4	34.8	52.2

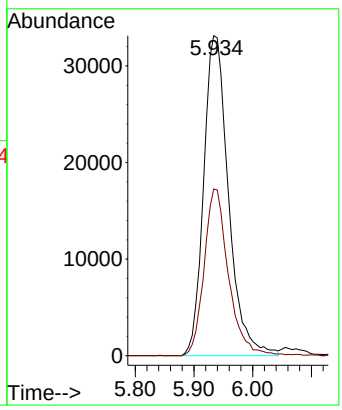




#33
1,2-Dichloroethane-d4
Concen: 49.180 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 65 Resp: 9736

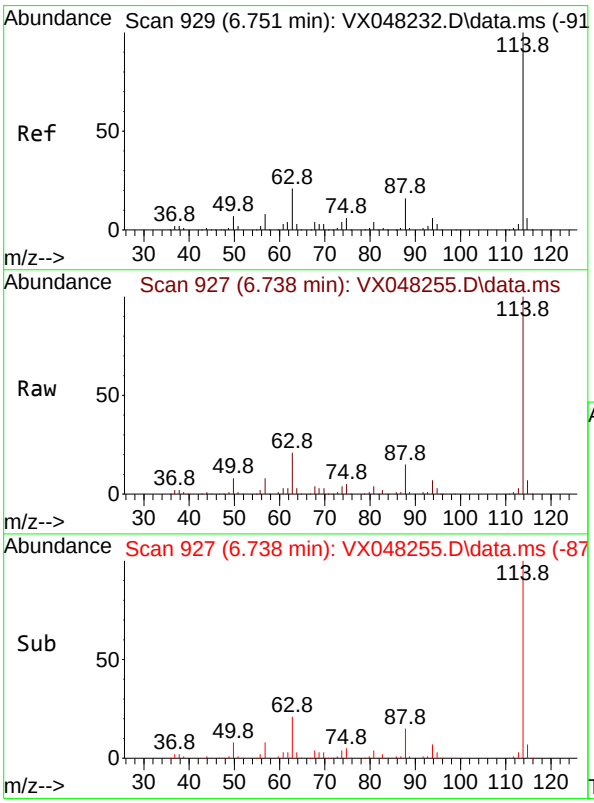
Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	105.0



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

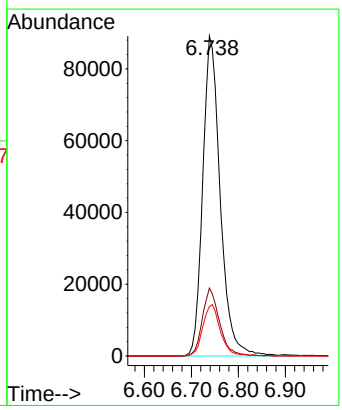
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

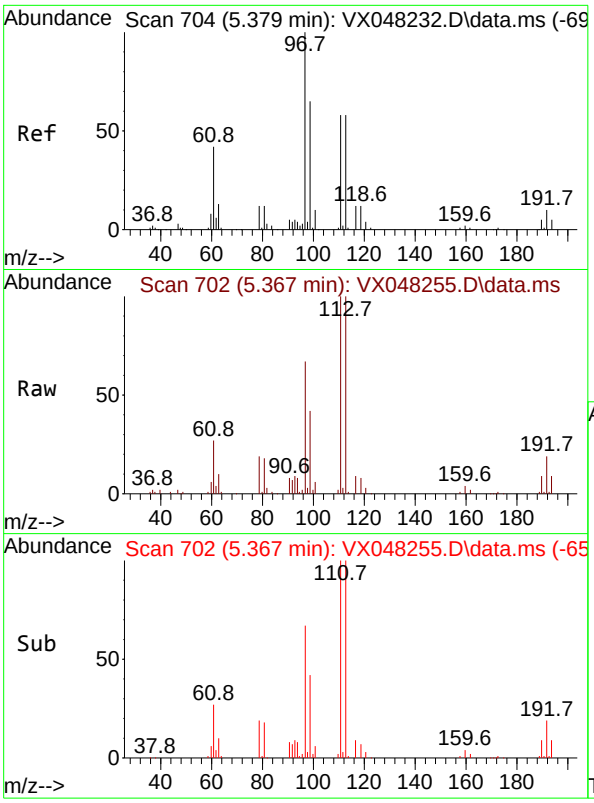


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.738 min Scan# 927
Delta R.T. -0.007 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:114 Resp: 230109

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	43.2
88	15.5	0.0	33.6

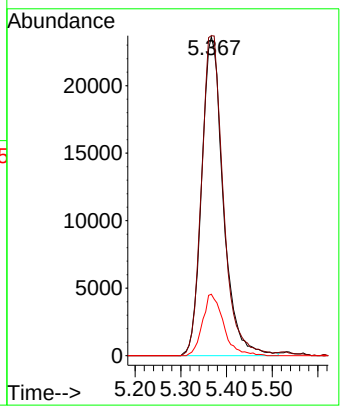




#35
Dibromofluoromethane
Concen: 49.256 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:113 Resp: 7737

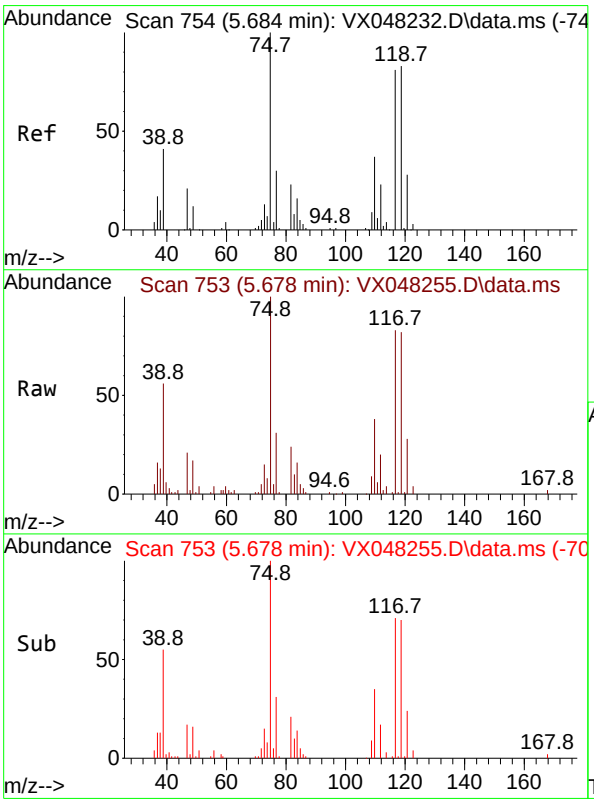
Ion	Ratio	Lower	Upper
113	100		
111	101.2	82.2	123.4
192	18.9	15.1	22.7



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

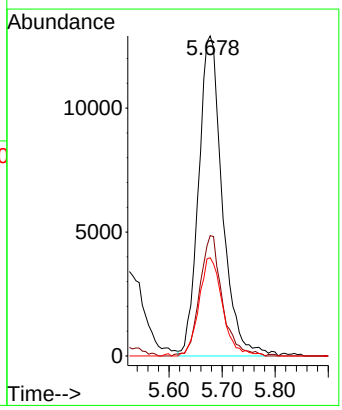
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

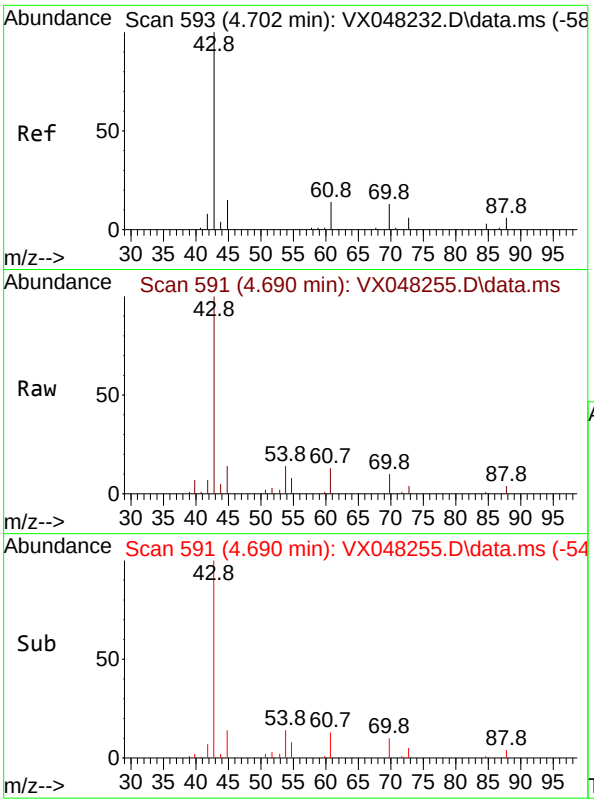


#36
1,1-Dichloropropene
Concen: 18.023 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 75 Resp: 40242

Ion	Ratio	Lower	Upper
75	100		
110	35.6	17.7	53.1
77	30.3	24.3	36.5

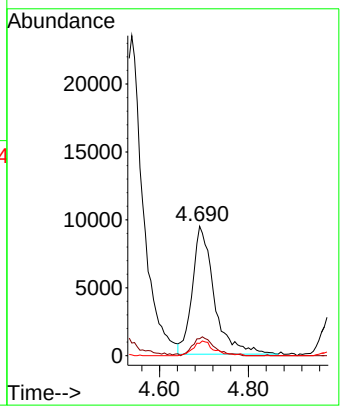




#37
Ethyl Acetate
Concen: 17.426 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 43 Resp: 3225

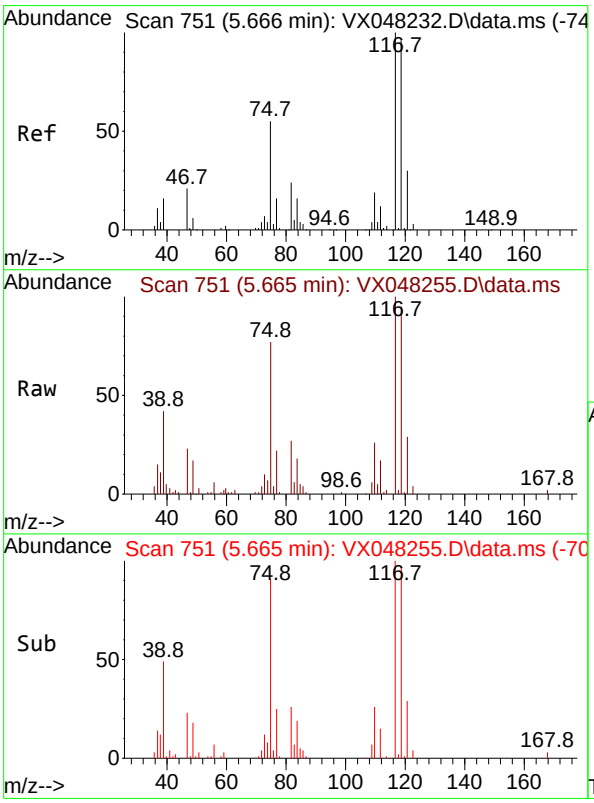
Ion	Ratio	Lower	Upper
43	100		
61	14.2	10.6	15.8
70	10.5	7.8	11.6



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

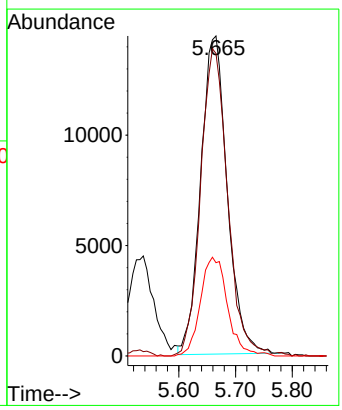
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

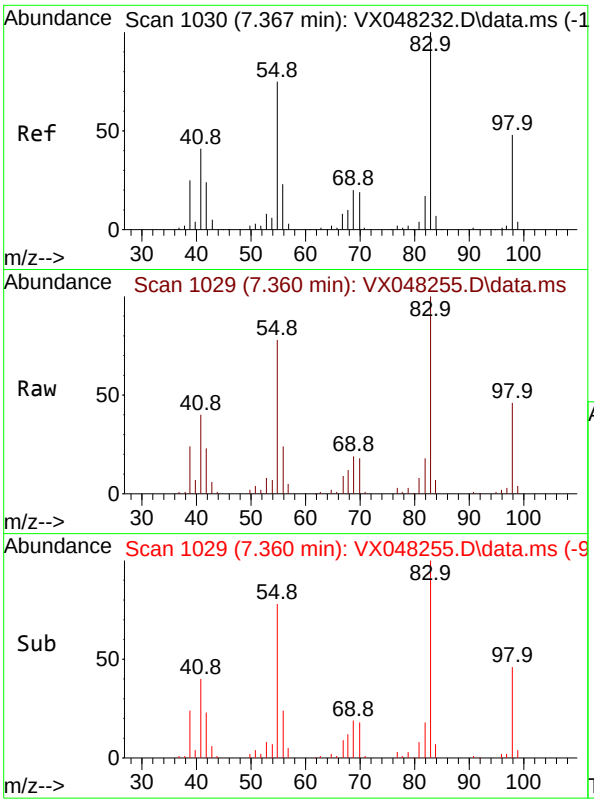


#38
Carbon Tetrachloride
Concen: 17.024 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:117 Resp: 46896

Ion	Ratio	Lower	Upper
117	100		
119	94.4	77.2	115.8
121	29.4	24.8	37.2

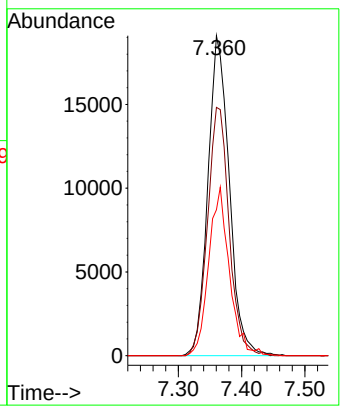




#39
Methylcyclohexane
Concen: 16.976 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 83 Resp: 4476

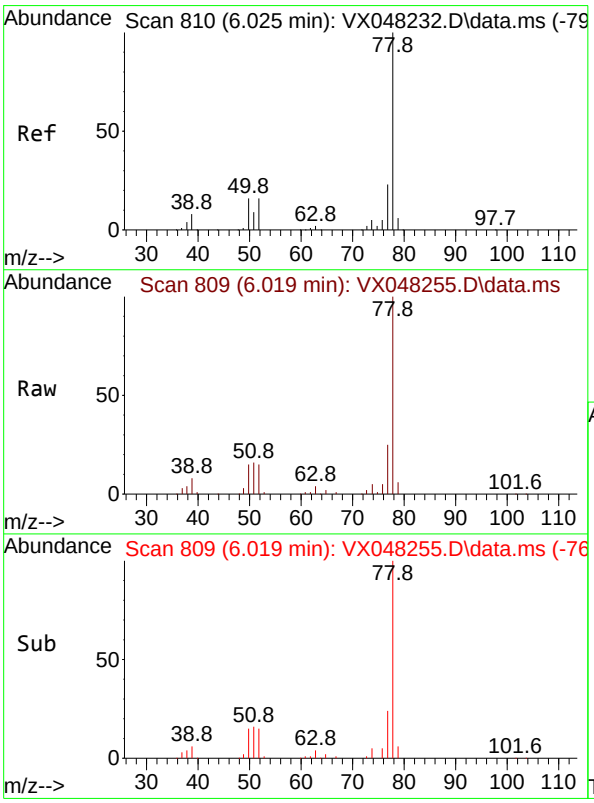
Ion	Ratio	Lower	Upper
83	100		
55	77.6	66.2	99.2
98	45.6	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

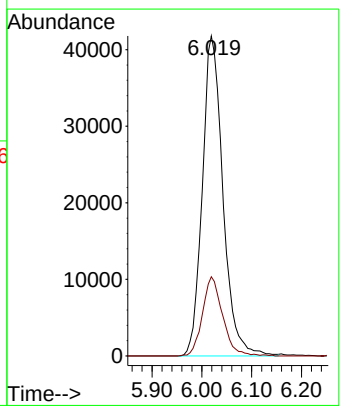
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

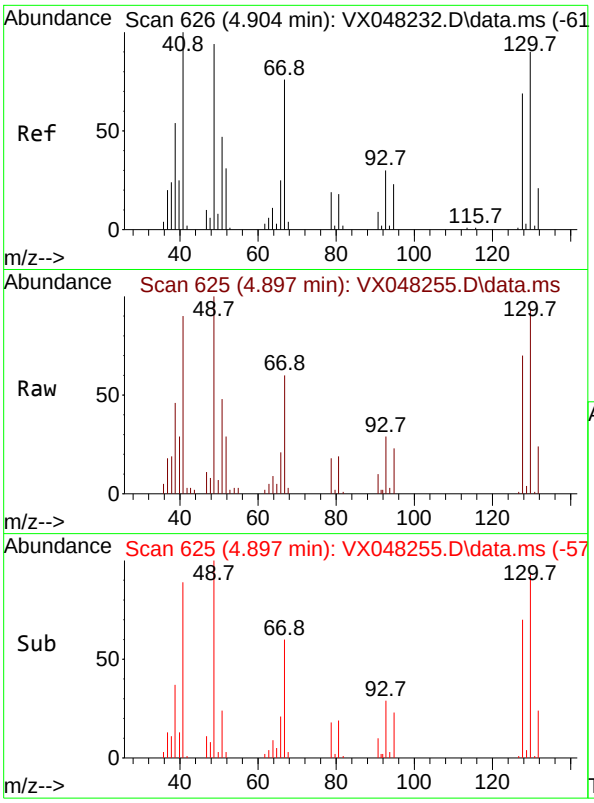


#40
Benzene
Concen: 18.540 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 78 Resp: 120185

Ion	Ratio	Lower	Upper
78	100		
77	24.7	19.3	28.9

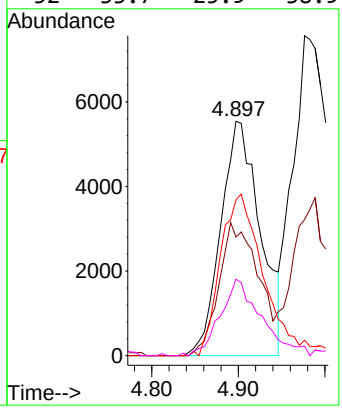




#41
Methacrylonitrile
Concen: 18.099 ug/l
RT: 4.897 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 41 Resp: 1759

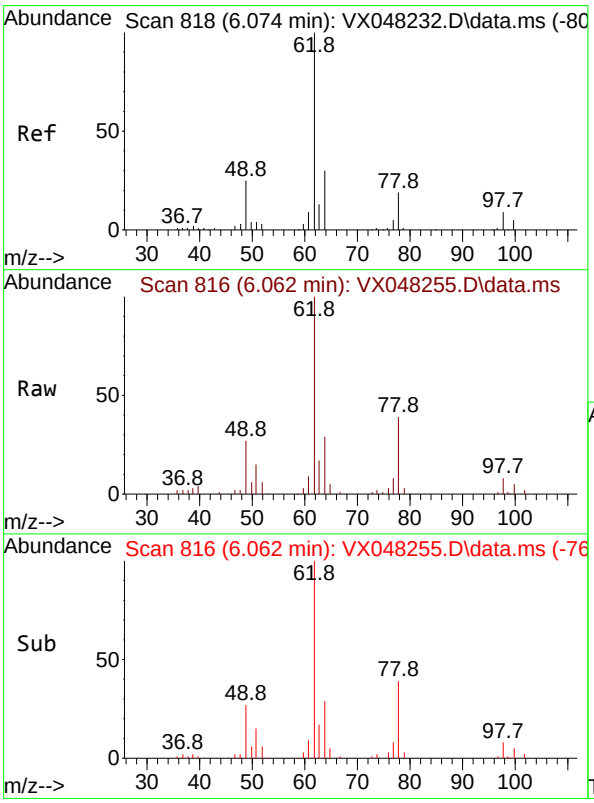
Ion	Ratio	Lower	Upper
41	100		
39	56.0	44.0	66.0
67	77.1	58.7	88.1
52	33.7	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

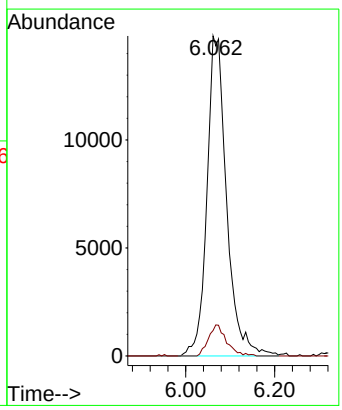
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

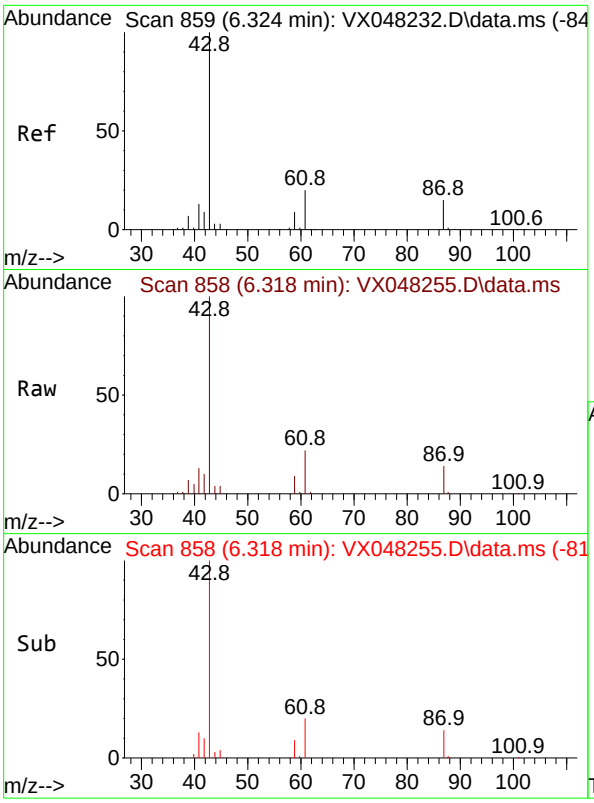


#42
1,2-Dichloroethane
Concen: 19.053 ug/l
RT: 6.062 min Scan# 816
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 62 Resp: 45577

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	17.2





#43
Isopropyl Acetate
Concen: 17.402 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

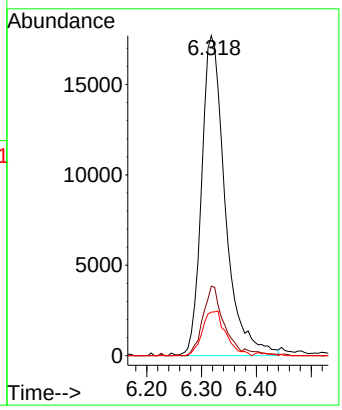
Tgt Ion: 43 Resp: 5290

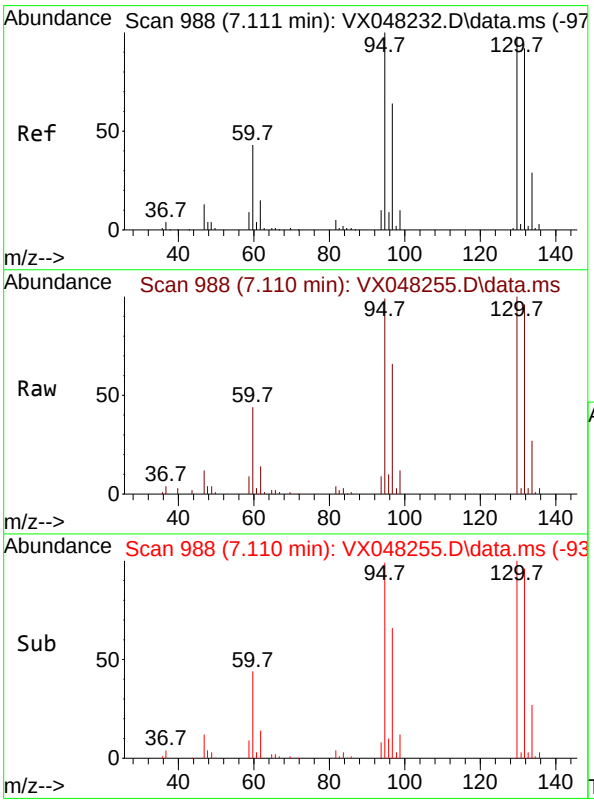
Ion	Ratio	Lower	Upper
43	100		
61	20.0	14.9	22.3
87	13.8	9.4	14.2

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

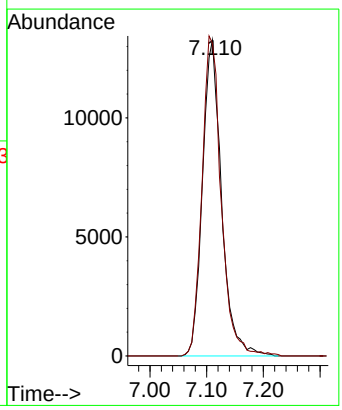


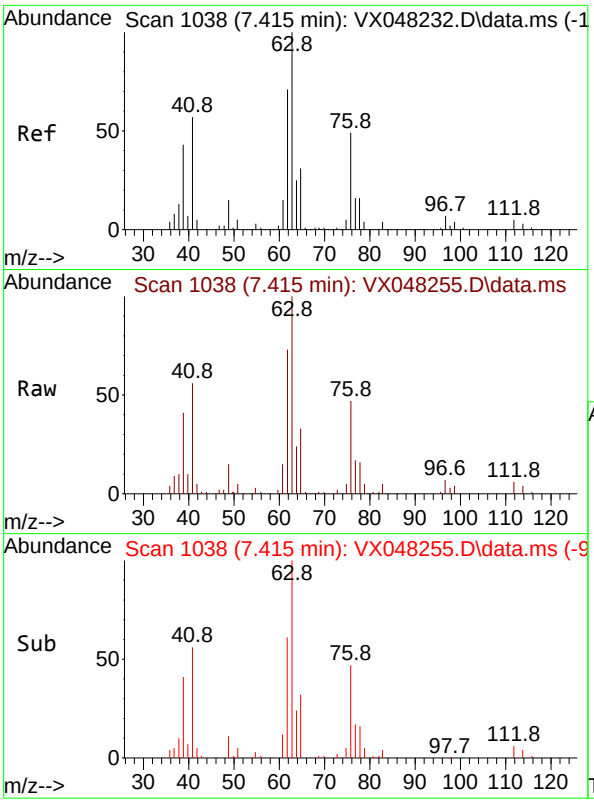


#44
Trichloroethene
Concen: 18.107 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:130 Resp: 30995

Ion	Ratio	Lower	Upper
130	100		
95	98.9	0.0	200.6

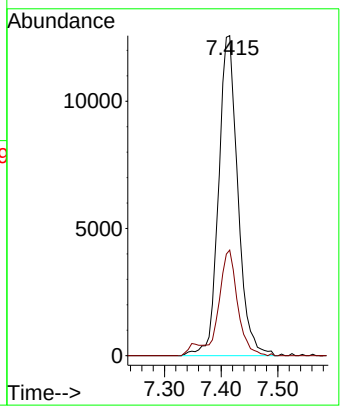




#45
1,2-Dichloropropane
Concen: 19.252 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 63 Resp: 2967

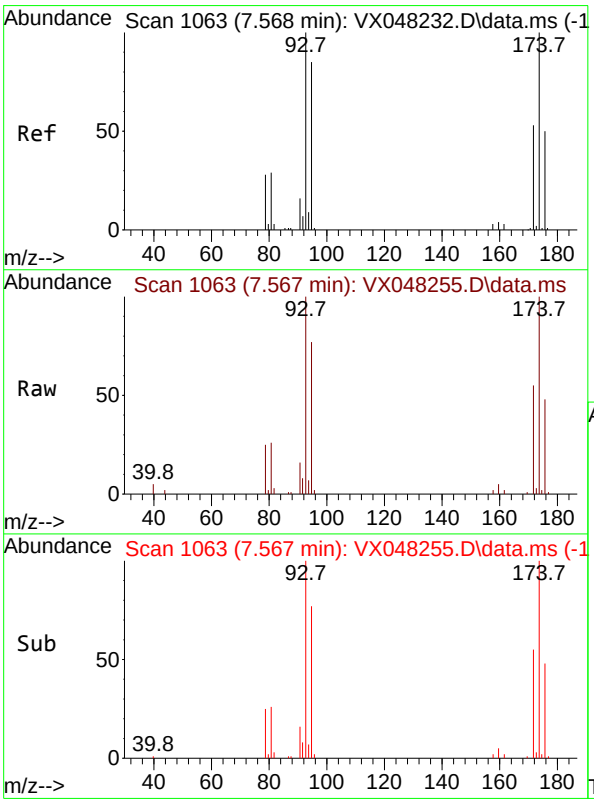
Ion	Ratio	Lower	Upper
63	100		
65	33.0	24.1	36.1



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

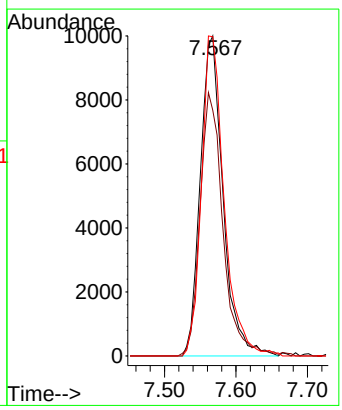
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

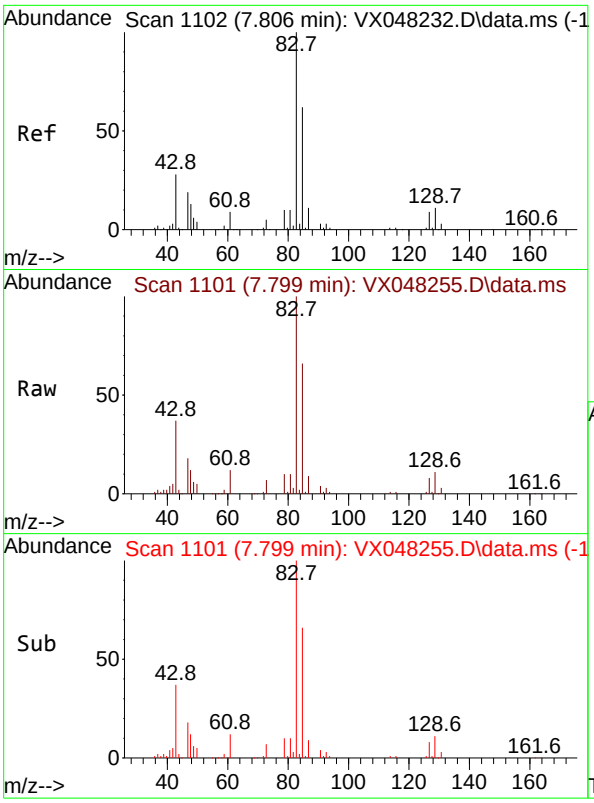


#46
Dibromomethane
Concen: 18.352 ug/l
RT: 7.567 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 93 Resp: 22037

Ion	Ratio	Lower	Upper
93	100		
95	82.8	65.9	98.9
174	100.0	71.7	107.5

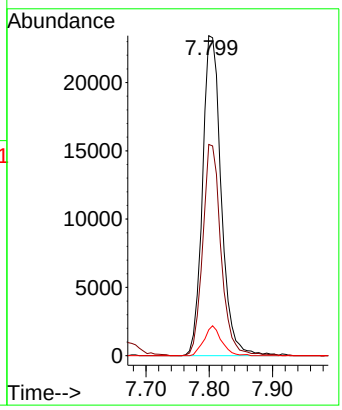




#47
Bromodichloromethane
Concen: 18.606 ug/l
RT: 7.799 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 83 Resp: 4824

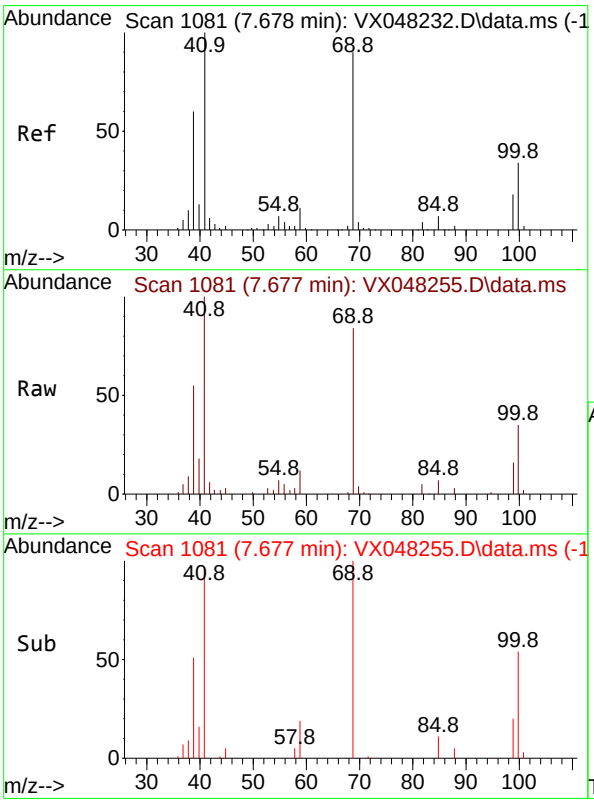
Ion	Ratio	Lower	Upper
83	100		
85	66.0	52.2	78.4
127	8.1	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

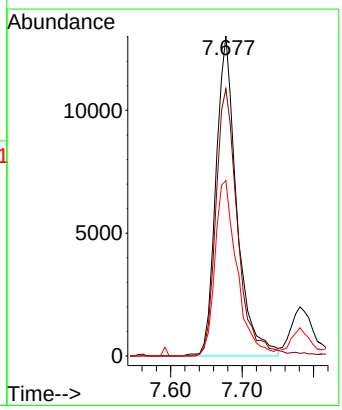
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

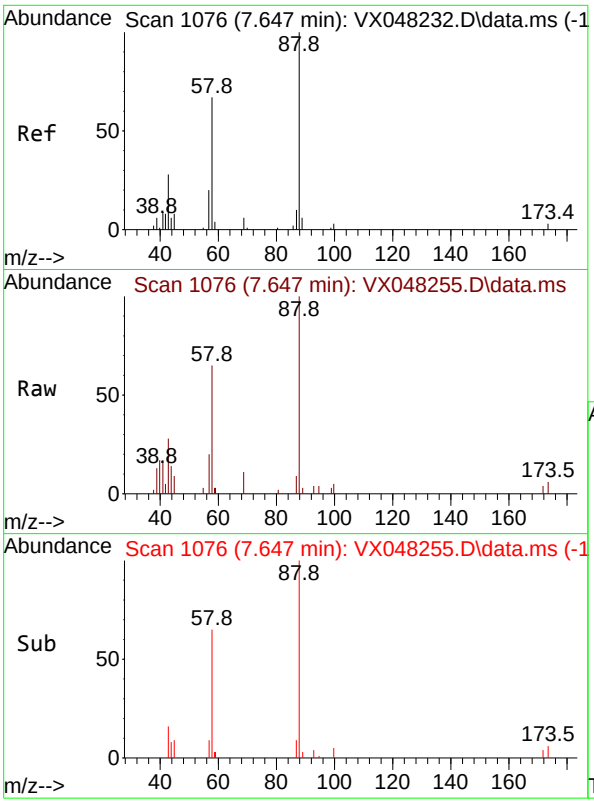


#48
Methyl methacrylate
Concen: 17.158 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 41 Resp: 26320

Ion	Ratio	Lower	Upper
41	100		
69	86.9	63.4	95.0
39	57.9	47.1	70.7





#49
1,4-Dioxane
Concen: 292.405 ug/l
RT: 7.647 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

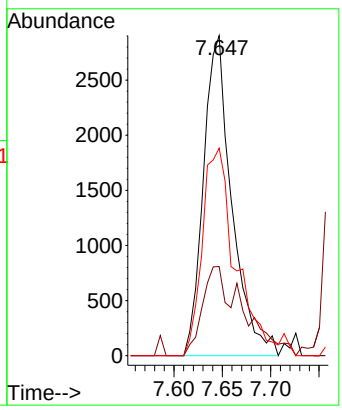
Tgt Ion: 88 Resp: 592

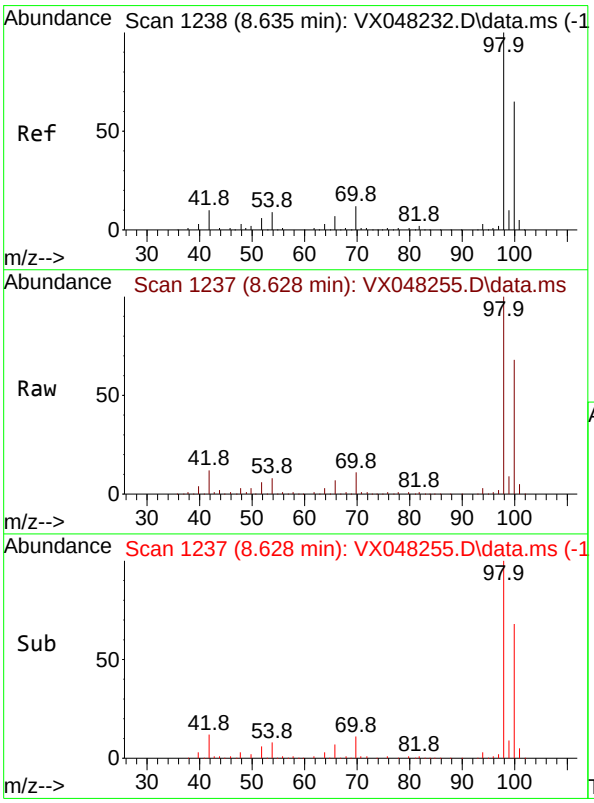
Ion	Ratio	Lower	Upper
88	100		
43	24.0	35.0	52.4
58	75.7	61.9	92.9

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

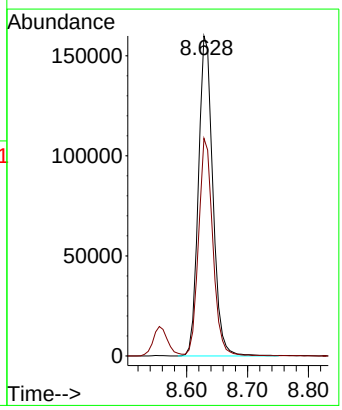


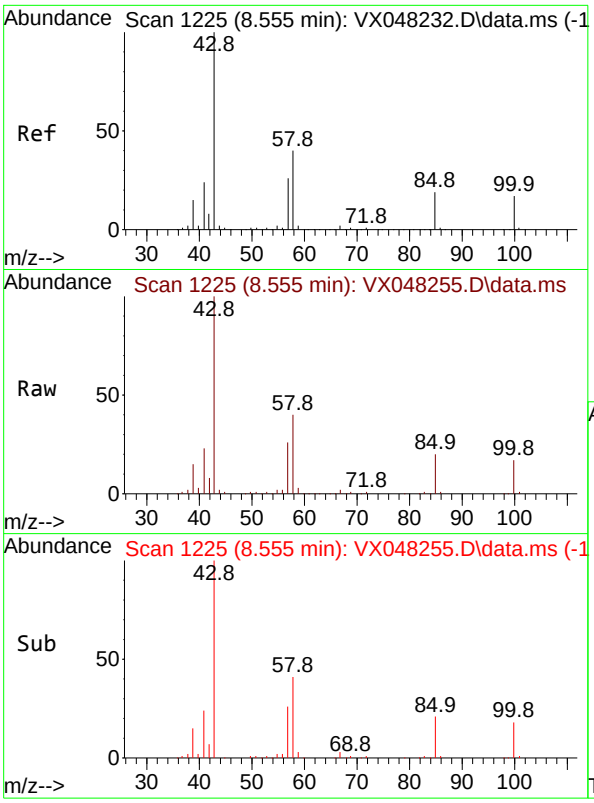


#50
Toluene-d8
Concen: 47.776 ug/l
RT: 8.628 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 98 Resp: 263067

Ion	Ratio	Lower	Upper
98	100		
100	67.1	53.0	79.4





#51
4-Methyl-2-Pentanone
Concen: 86.877 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

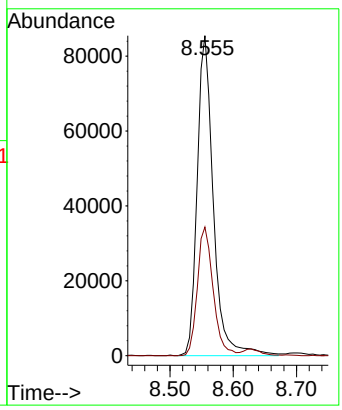
Tgt Ion: 43 Resp: 15227

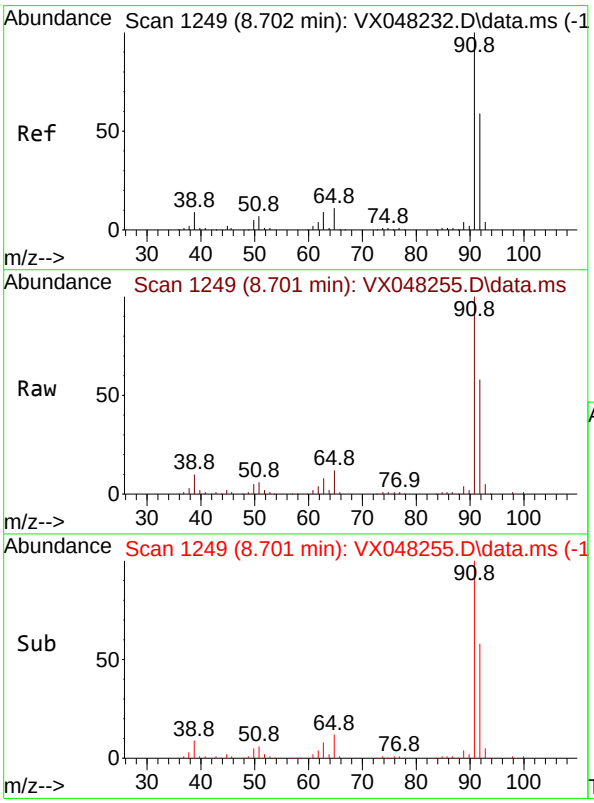
Ion	Ratio	Lower	Upper
43	100		
58	39.2	29.5	44.3

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

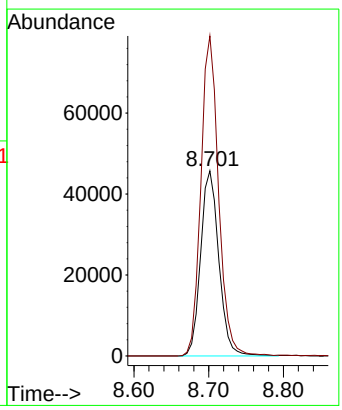


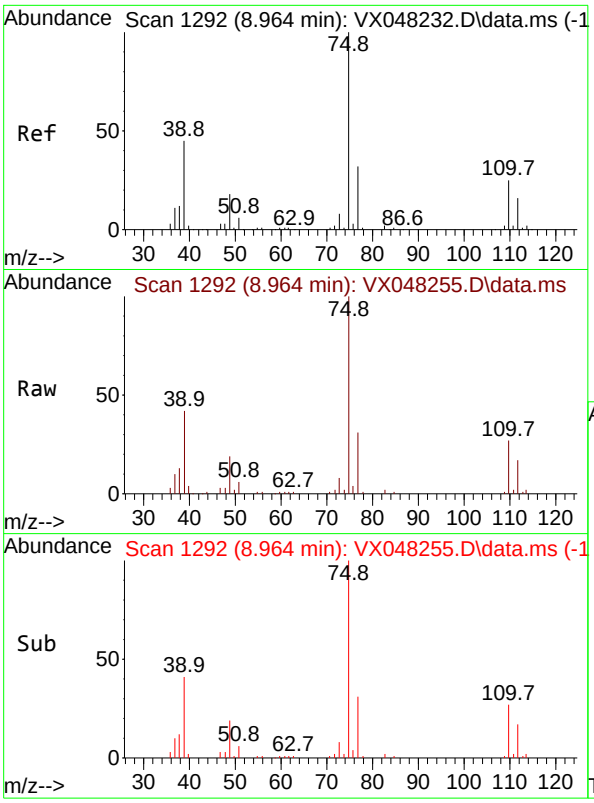


#52
Toluene
Concen: 18.755 ug/l
RT: 8.701 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 92 Resp: 77240

Ion	Ratio	Lower	Upper
92	100		
91	168.4	136.1	204.1

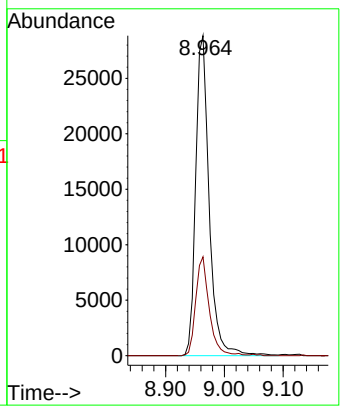




#53
t-1,3-Dichloropropene
Concen: 18.419 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 75 Resp: 4602

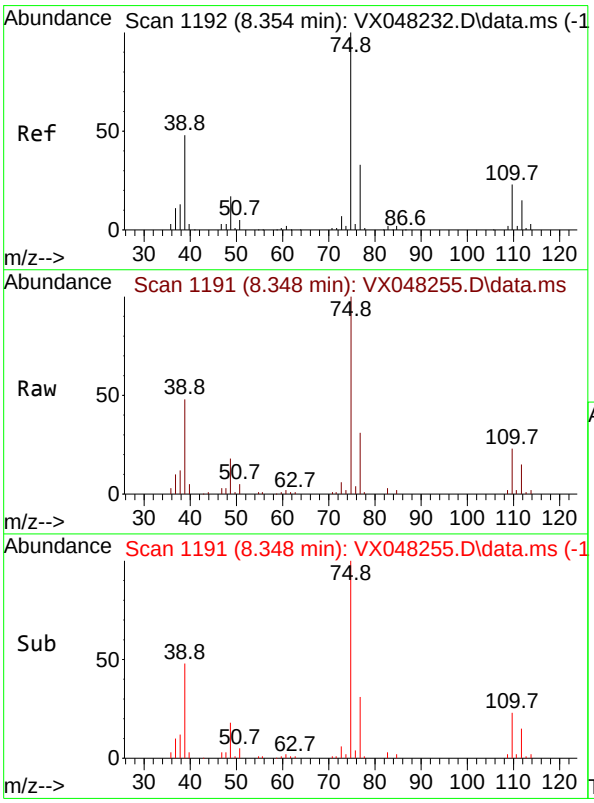
Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

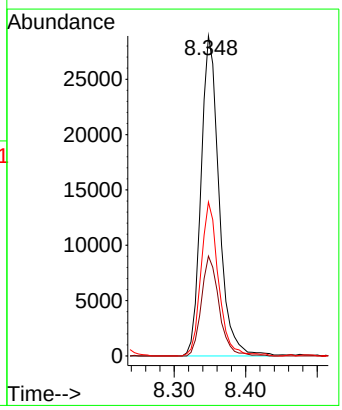
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

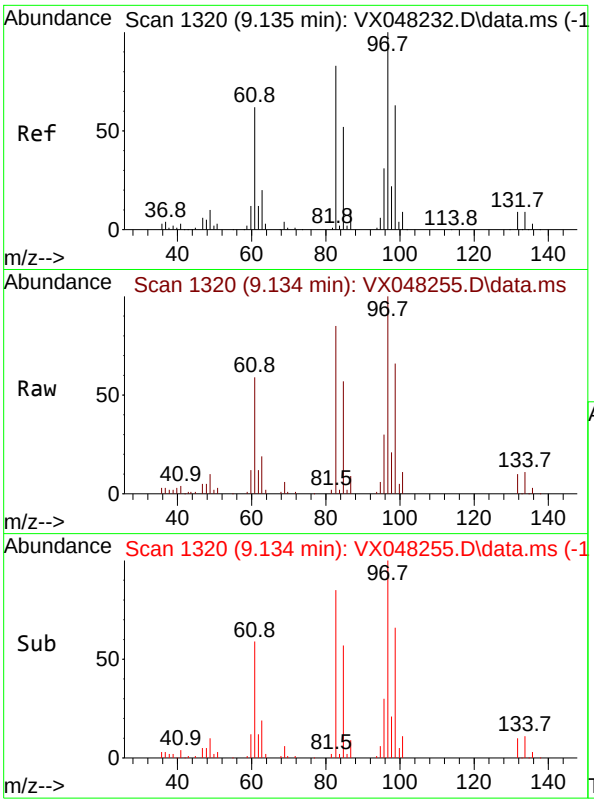


#54
cis-1,3-Dichloropropene
Concen: 18.810 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 75 Resp: 50705

Ion	Ratio	Lower	Upper
75	100		
77	31.2	24.9	37.3
39	48.1	42.6	64.0

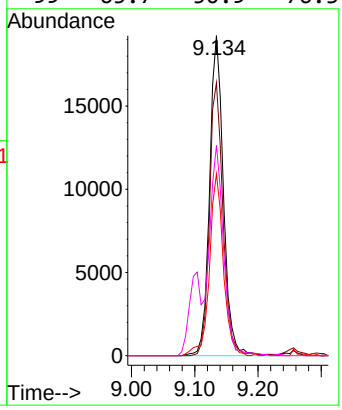




#55
1,1,2-Trichloroethane
Concen: 19.140 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 97 Resp: 2931

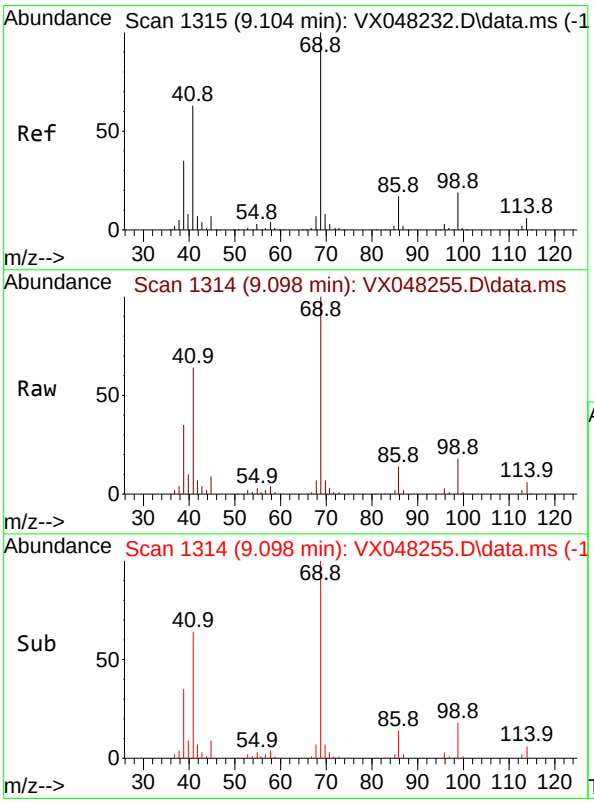
Ion	Ratio	Lower	Upper
97	100		
83	85.2	70.6	105.8
85	56.8	45.0	67.6
99	65.7	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

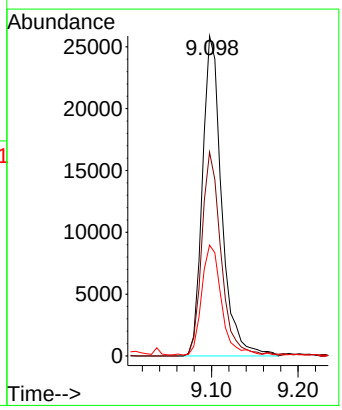
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

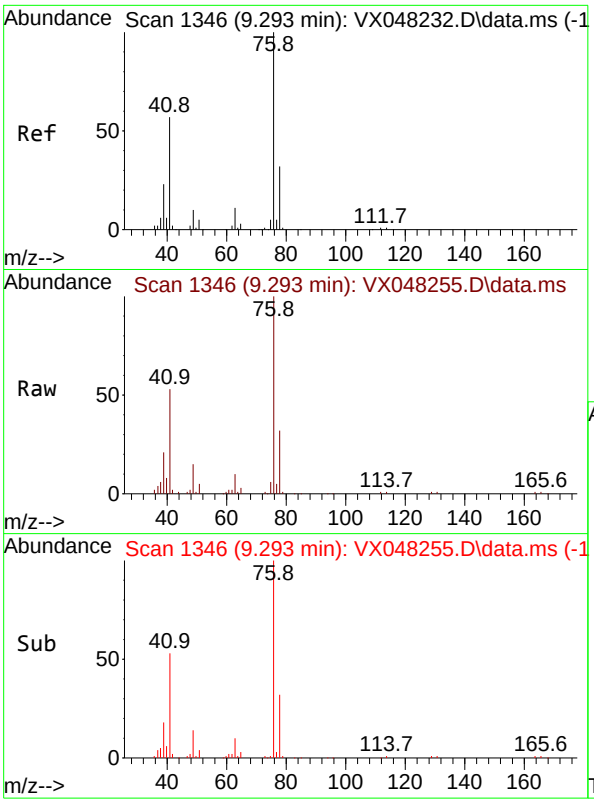


#56
Ethyl methacrylate
Concen: 17.852 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 69 Resp: 39990

Ion	Ratio	Lower	Upper
69	100		
41	64.4	56.0	84.0
39	35.4	31.6	47.4

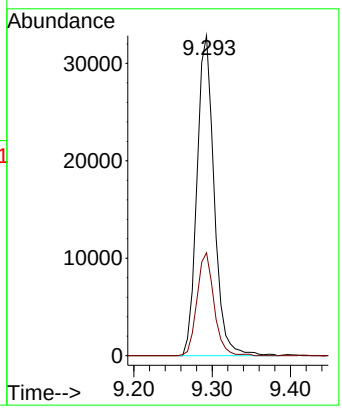




#57
1,3-Dichloropropane
Concen: 19.160 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 76 Resp: 5012

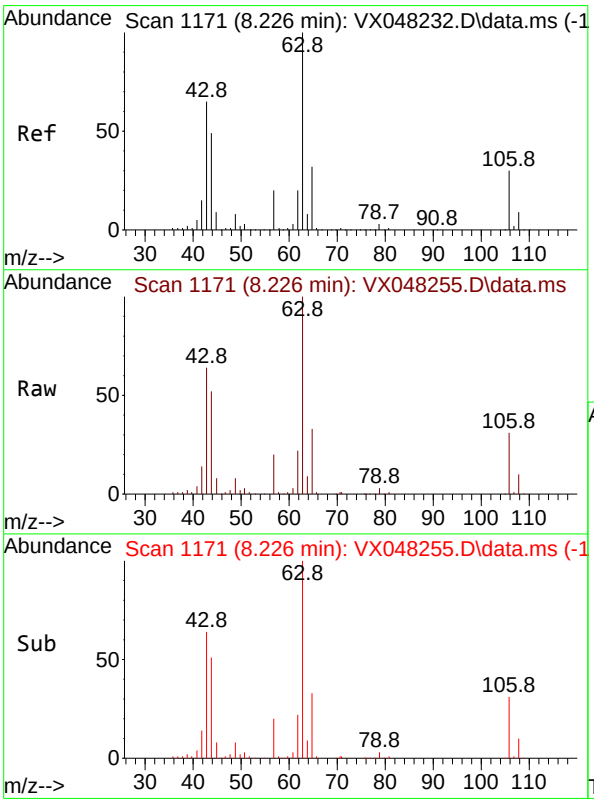
Ion	Ratio	Lower	Upper
76	100		
78	31.8	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

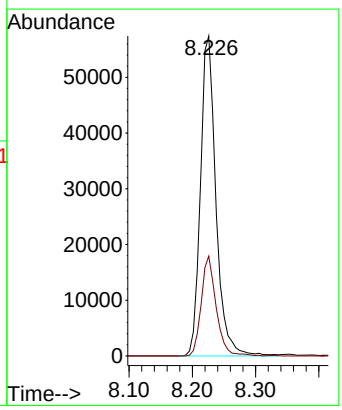
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

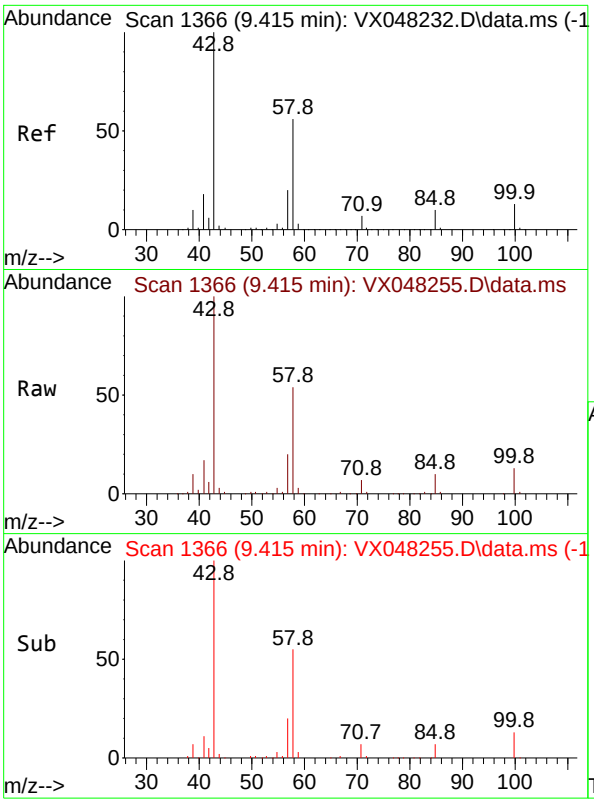


#58
2-Chloroethyl Vinyl ether
Concen: 82.586 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 63 Resp: 98096

Ion	Ratio	Lower	Upper
63	100		
106	30.0	22.2	33.2





#59
2-Hexanone
Concen: 85.909 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

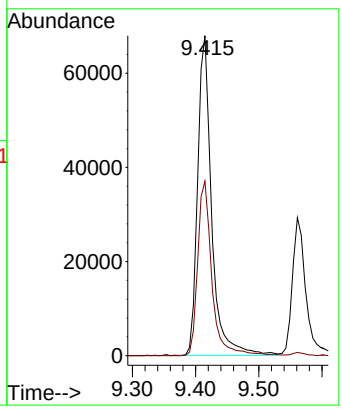
Tgt Ion: 43 Resp: 10499

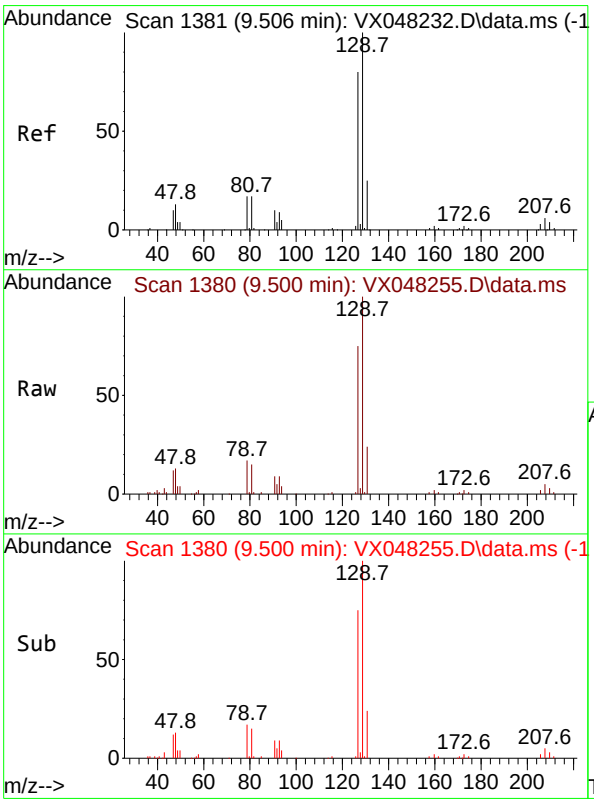
Ion	Ratio	Lower	Upper
43	100		
58	55.3	26.3	78.8

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

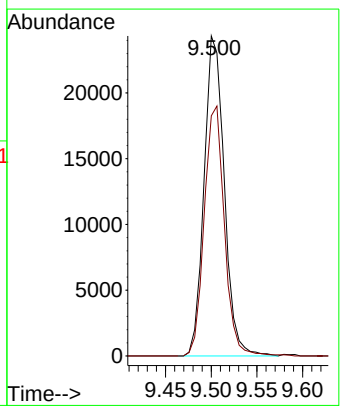


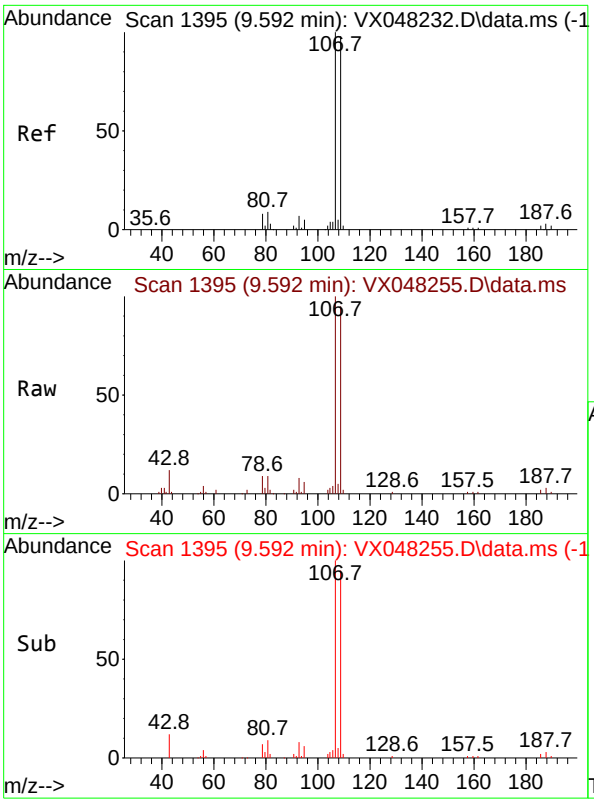


#60
Dibromochloromethane
Concen: 18.114 ug/l
RT: 9.500 min Scan# 1380
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:129 Resp: 37288

Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.6	115.7





#61
1,2-Dibromoethane
Concen: 18.554 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

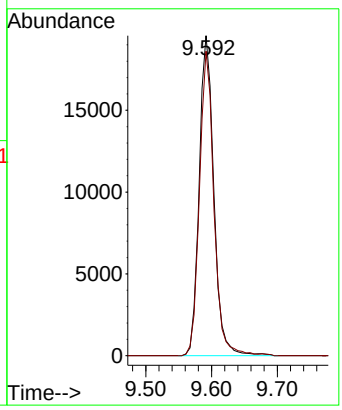
Tgt Ion:107 Resp: 3029

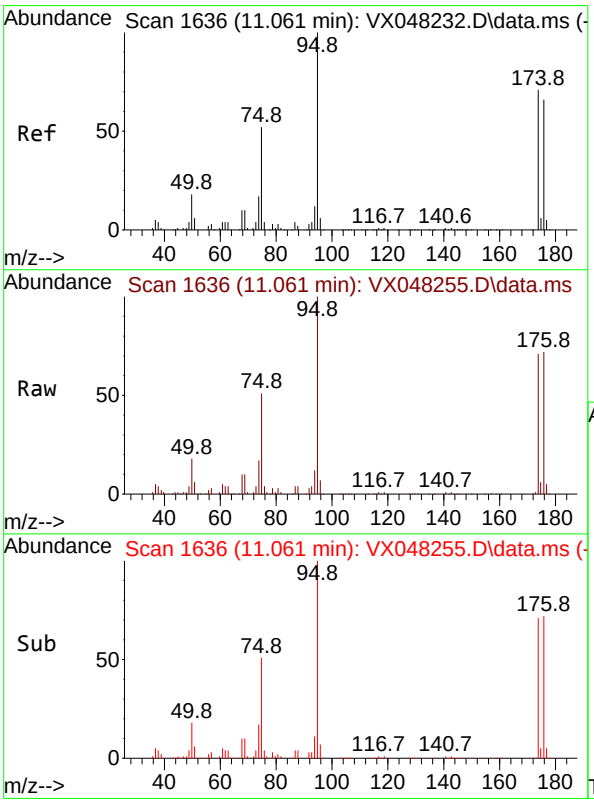
Ion	Ratio	Lower	Upper
107	100		
109	94.2	77.0	115.4

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

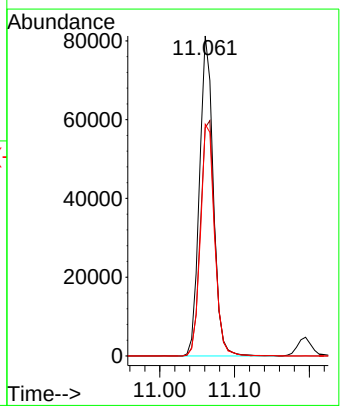


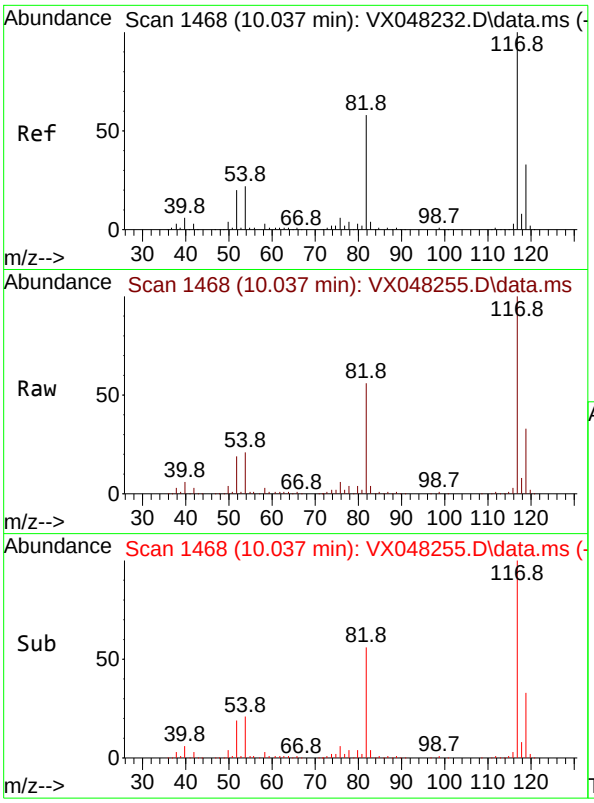


#62
4-Bromofluorobenzene
Concen: 49.702 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 95 Resp: 104113

Ion	Ratio	Lower	Upper
95	100		
174	76.4	0.0	147.8
176	74.0	0.0	142.8

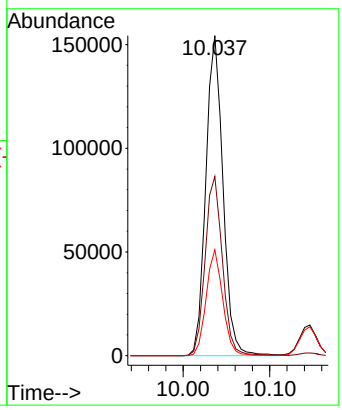




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:117 Resp: 21234

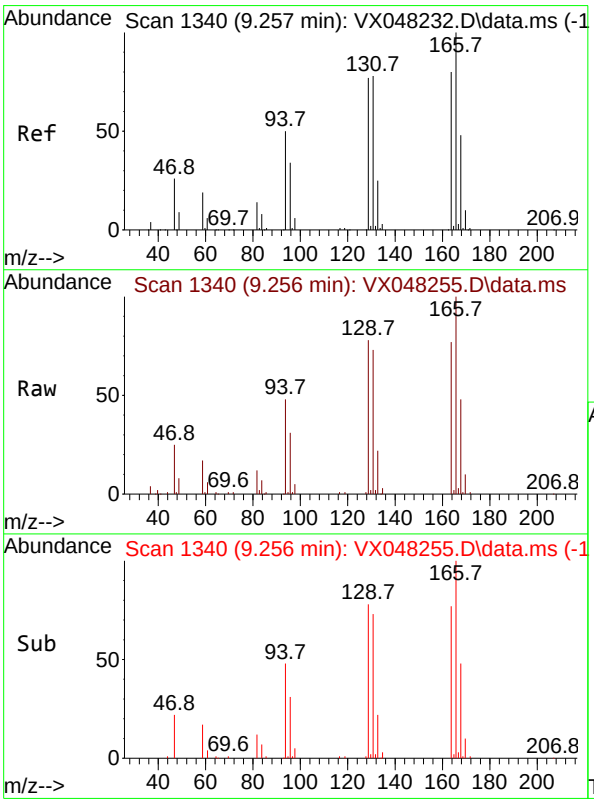
Ion	Ratio	Lower	Upper
117	100		
82	56.0	46.5	69.7
119	33.1	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

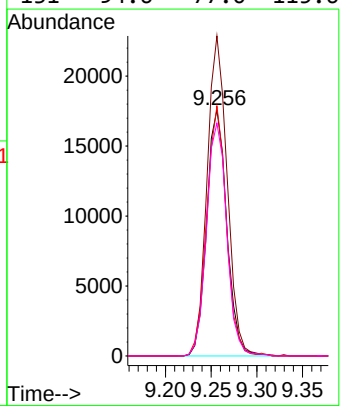
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

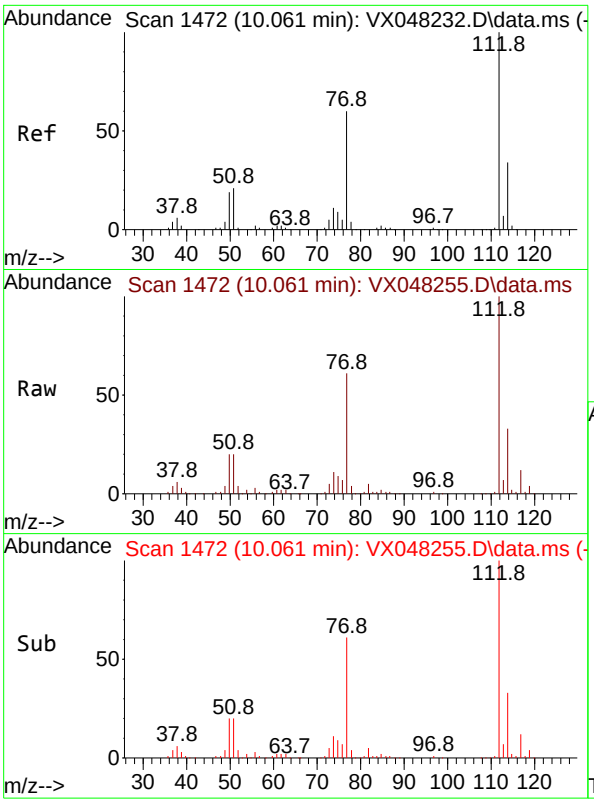


#64
Tetrachloroethene
Concen: 16.909 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:164 Resp: 26804

Ion	Ratio	Lower	Upper
164	100		
166	130.0	104.5	156.7
129	101.5	81.8	122.6
131	94.6	77.0	115.6





#65
Chlorobenzene
Concen: 17.974 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

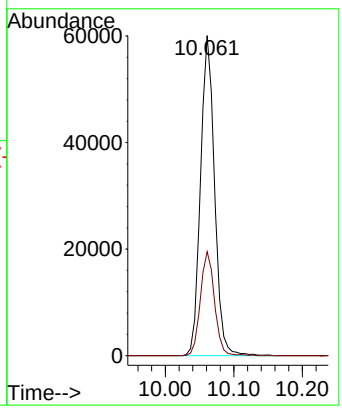
Tgt Ion:112 Resp: 8585

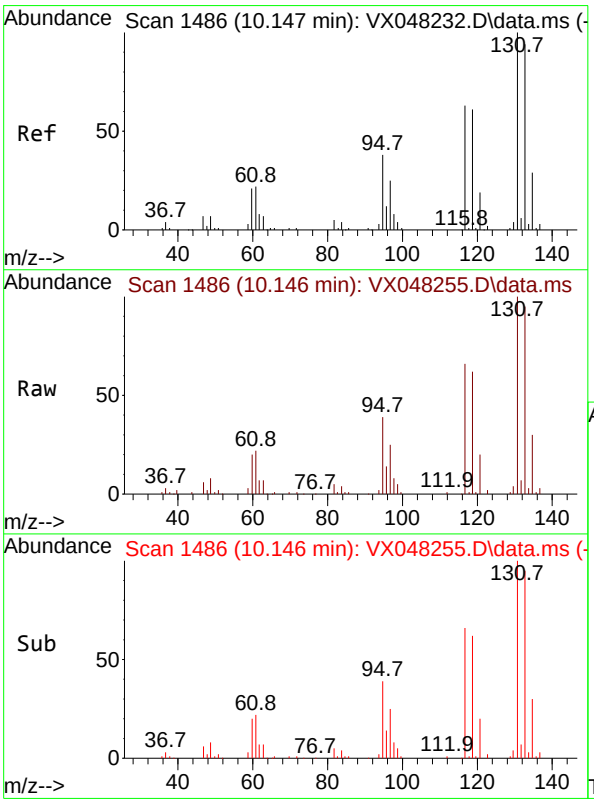
Ion	Ratio	Lower	Upper
112	100		
114	32.5	26.2	39.2

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

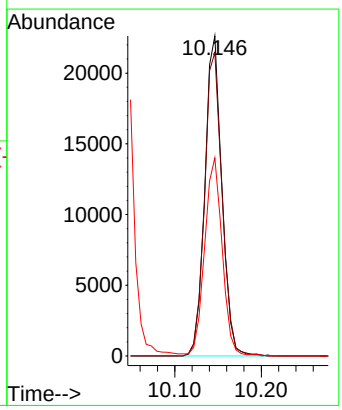


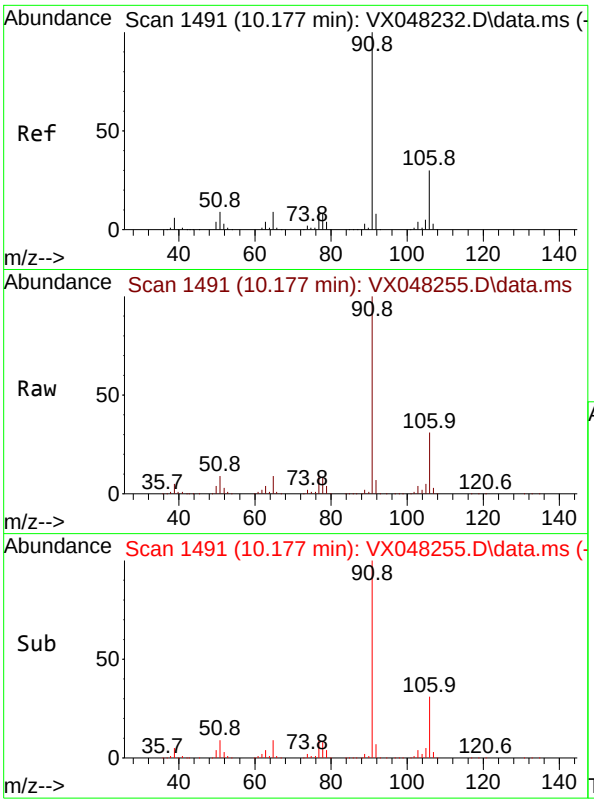


#66
1,1,1,2-Tetrachloroethane
Concen: 17.566 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:131 Resp: 30819

Ion	Ratio	Lower	Upper
131	100		
133	97.7	47.6	142.8
119	63.9	32.5	97.5





#67
Ethyl Benzene
Concen: 17.824 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

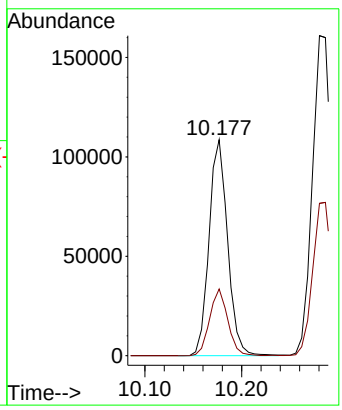
Tgt Ion: 91 Resp: 14495

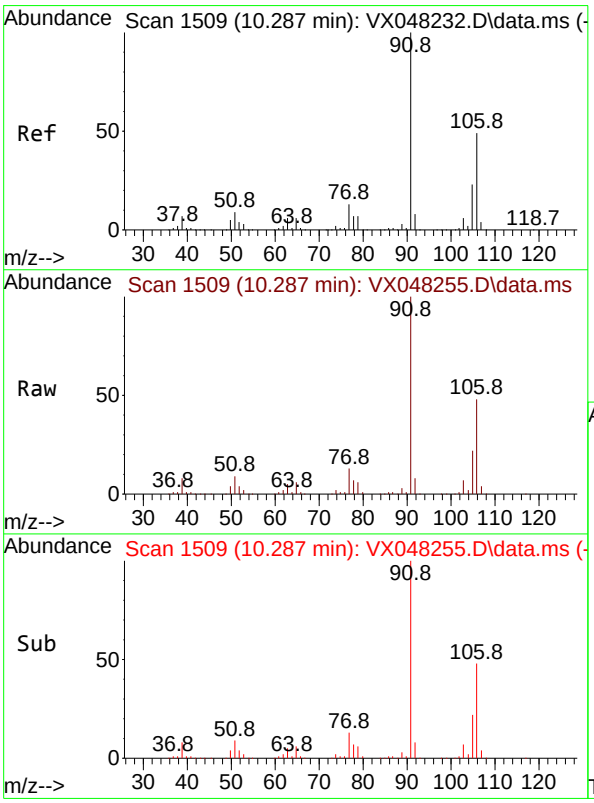
Ion	Ratio	Lower	Upper
91	100		
106	30.9	23.8	35.6

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

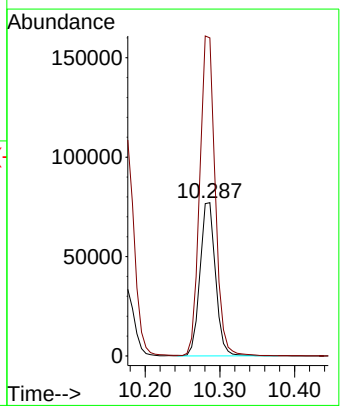


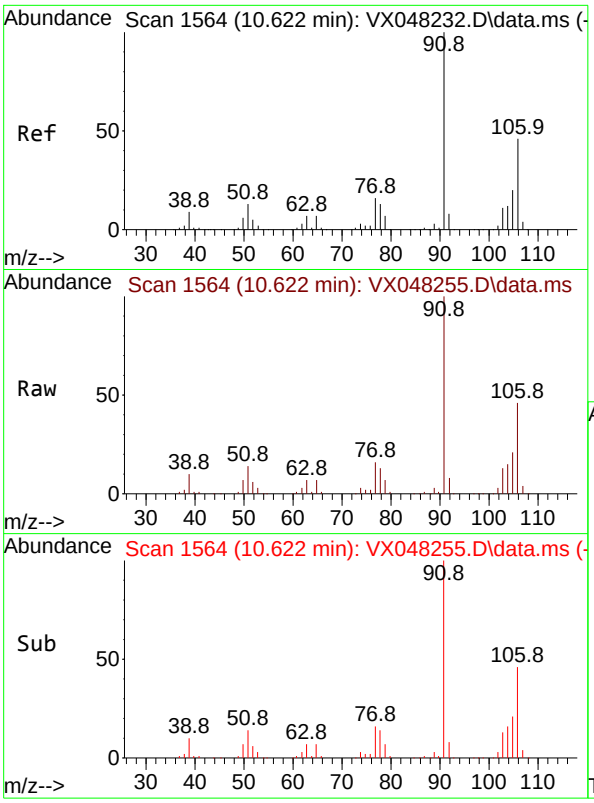


#68
m/p-Xylenes
Concen: 36.763 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:106 Resp: 111086

Ion	Ratio	Lower	Upper
106	100		
91	208.0	167.9	251.9





#69
o-Xylene
Concen: 18.060 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

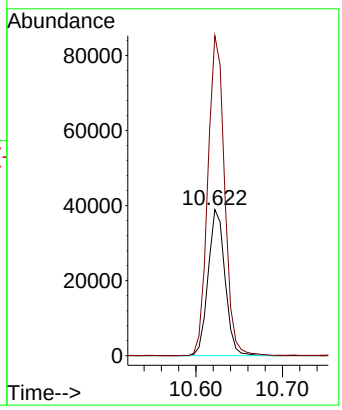
Tgt Ion:106 Resp: 5268

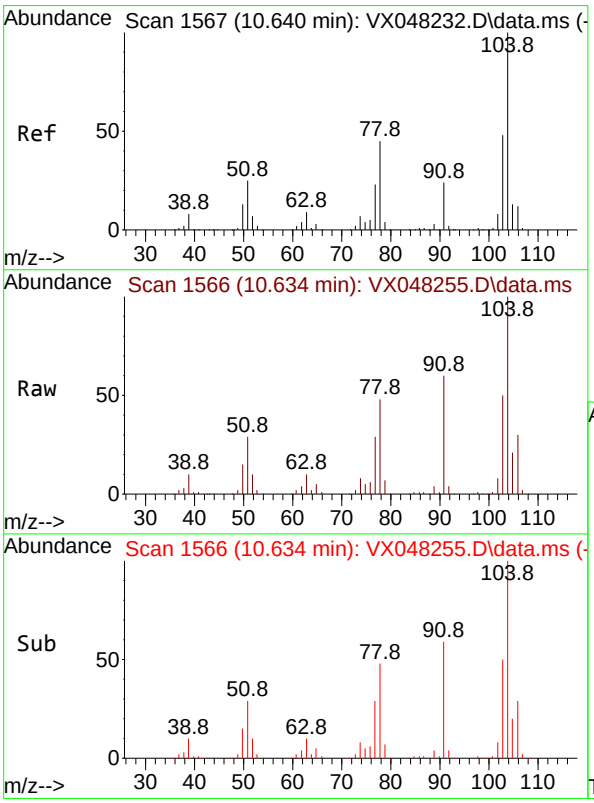
Ion	Ratio	Lower	Upper
106	100		
91	217.5	111.3	333.9

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

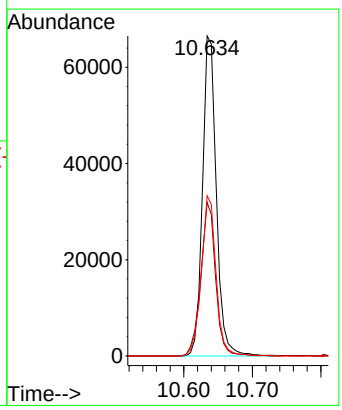


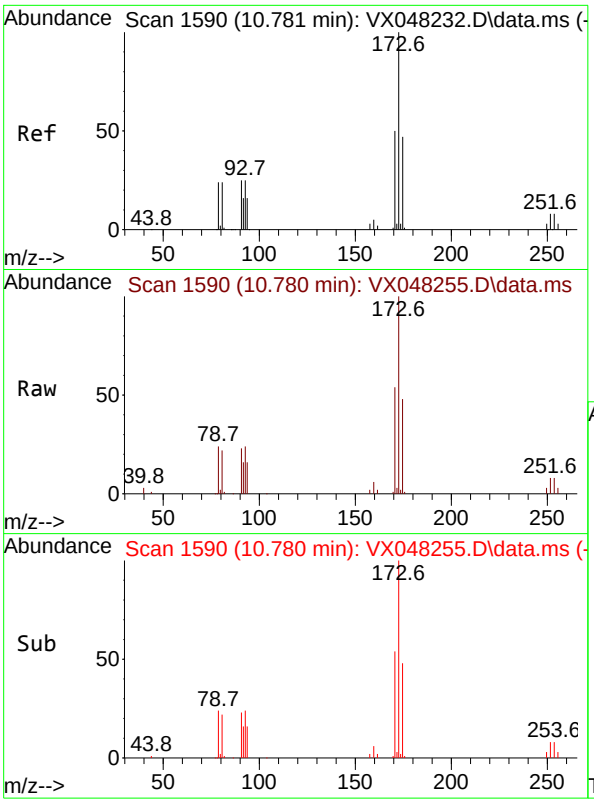


#70
Styrene
Concen: 18.838 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:104 Resp: 93575

Ion	Ratio	Lower	Upper
104	100		
78	51.4	42.2	63.4
103	53.3	43.0	64.4

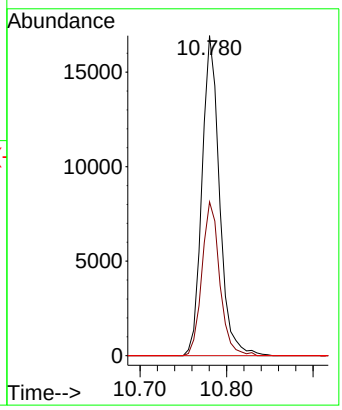




#71
Bromoform
Concen: 16.952 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:173 Resp: 2377

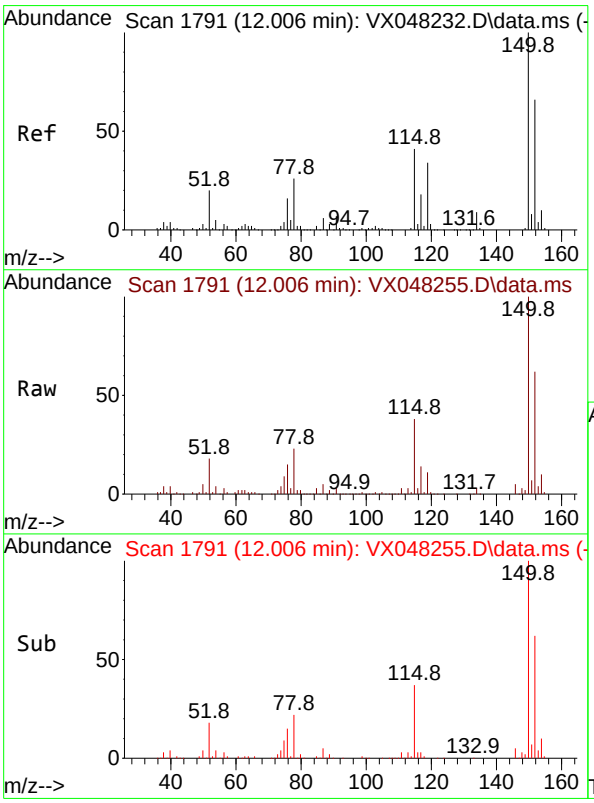
Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

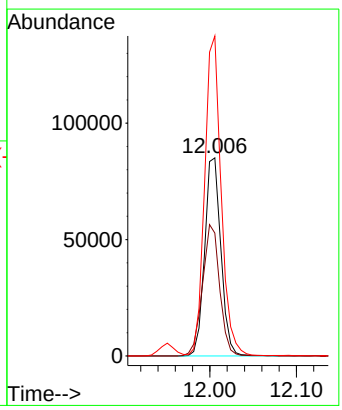
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

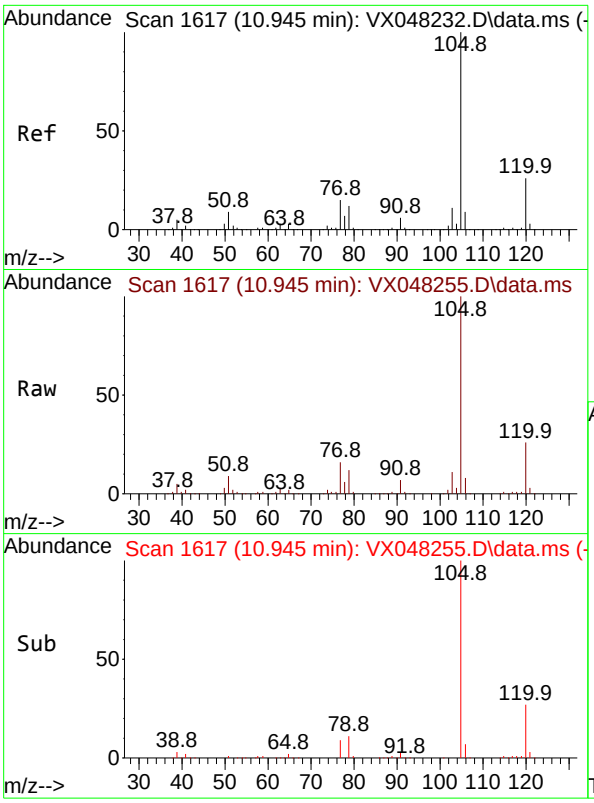


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:152 Resp: 110789

Ion	Ratio	Lower	Upper
152	100		
115	70.2	43.1	129.4
150	163.8	0.0	353.0

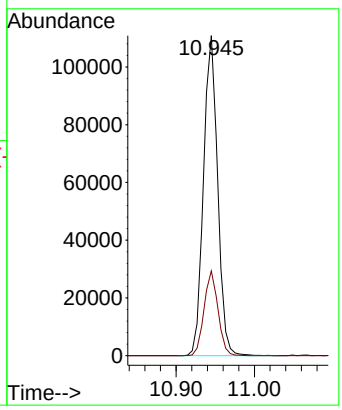




#73
Isopropylbenzene
Concen: 17.144 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:105 Resp: 13872

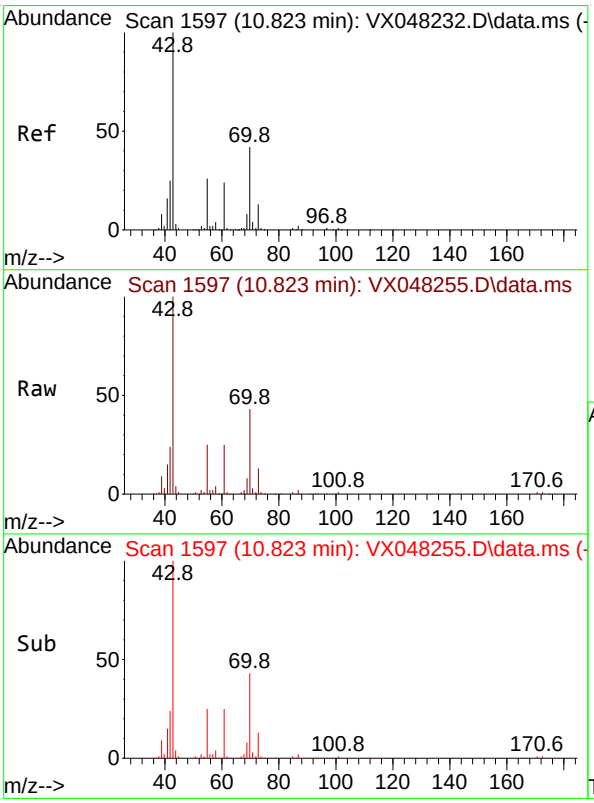
Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.0	38.9



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

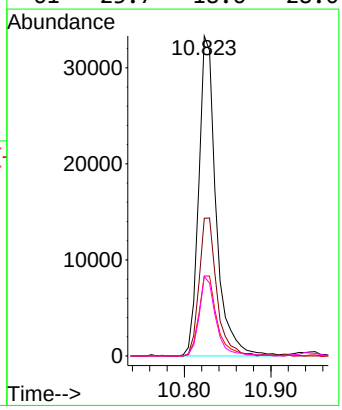
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

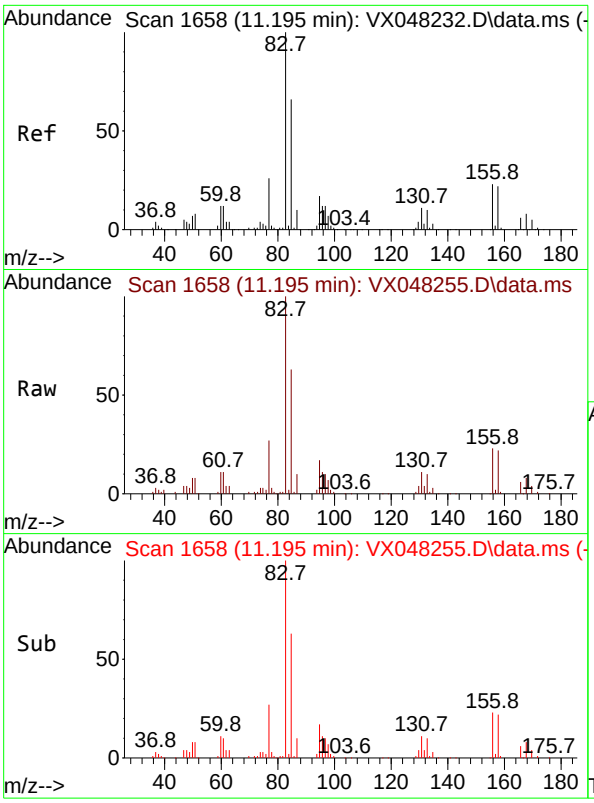


#74
N-amyl acetate
Concen: 16.144 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 43 Resp: 46339

Ion	Ratio	Lower	Upper
43	100		
70	43.9	32.2	48.2
55	26.2	19.1	28.7
61	23.7	18.6	28.0





#75
1,1,2,2-Tetrachloroethane
Concen: 17.251 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

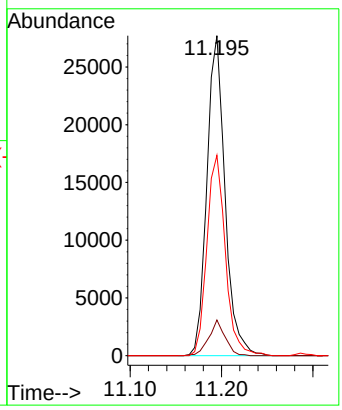
Tgt Ion: 83 Resp: 3812

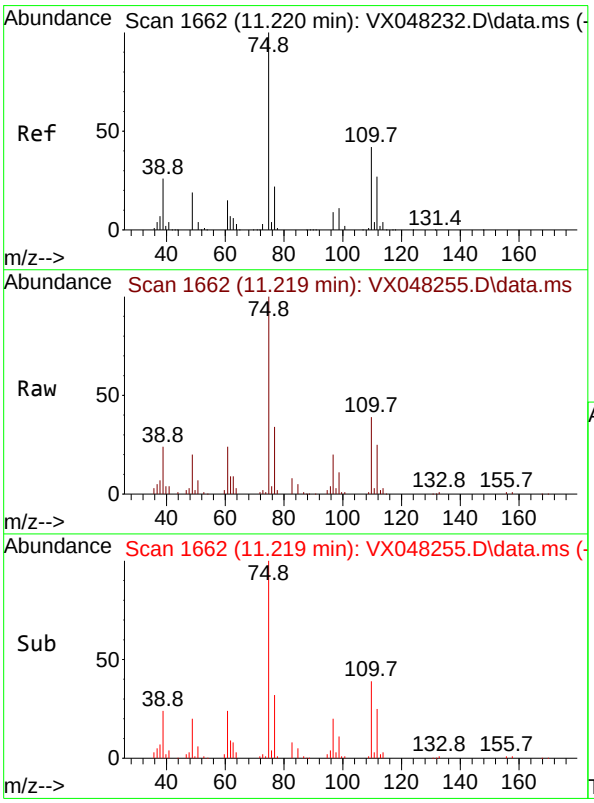
Ion	Ratio	Lower	Upper
83	100		
131	10.1	4.8	14.4
85	63.9	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

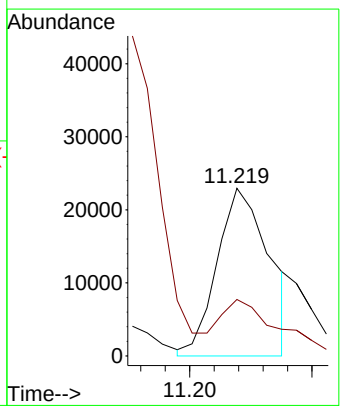


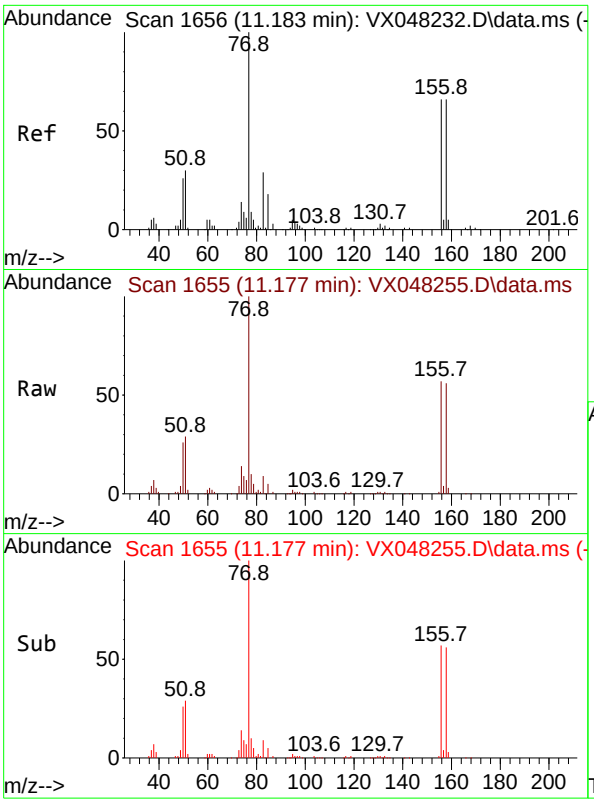


#76
1,2,3-Trichloropropane
Concen: 18.905 ug/l m
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 75 Resp: 33965

Ion	Ratio	Lower	Upper
75	100		
77	37.7	22.4	67.2

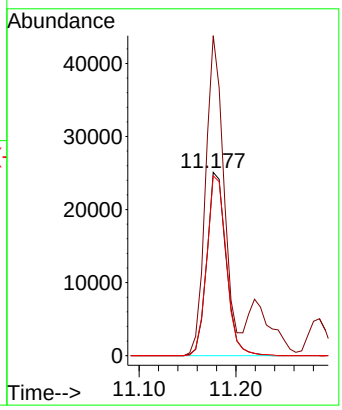




#77
Bromobenzene
Concen: 17.087 ug/l
RT: 11.177 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:156 Resp: 3466

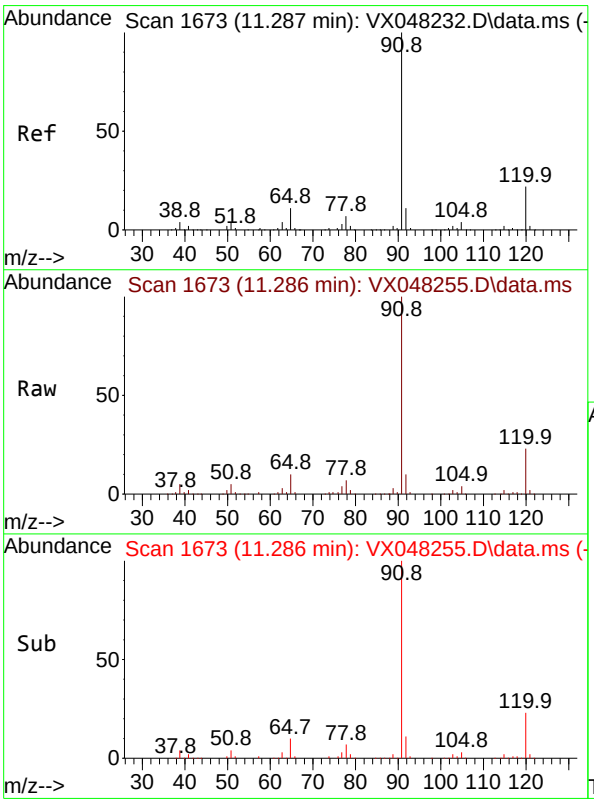
Ion	Ratio	Lower	Upper
156	100		
77	164.6	87.0	261.0
158	99.9	47.8	143.4



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

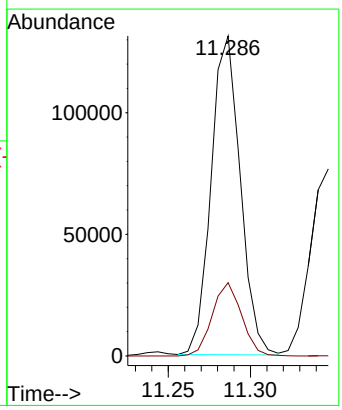
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

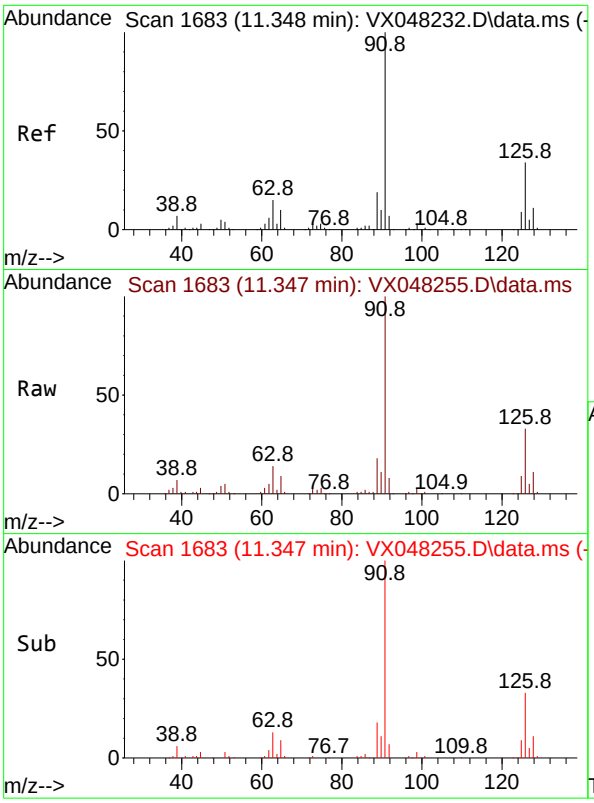


#78
n-propylbenzene
Concen: 17.266 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 91 Resp: 161765

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.1	33.1





#79
2-Chlorotoluene
Concen: 17.293 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

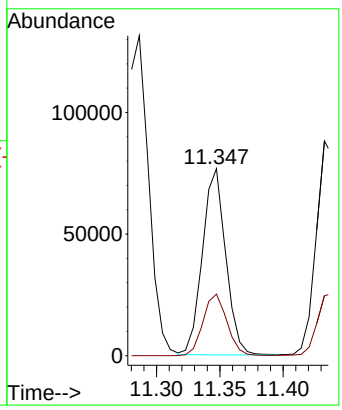
Tgt Ion: 91 Resp: 9823

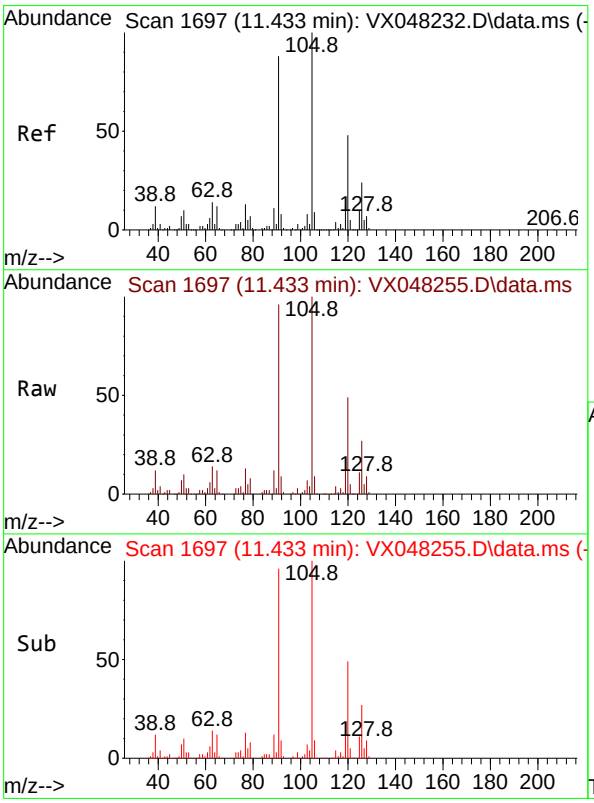
Ion	Ratio	Lower	Upper
91	100		
126	34.0	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

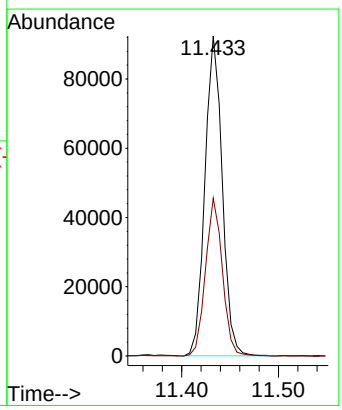


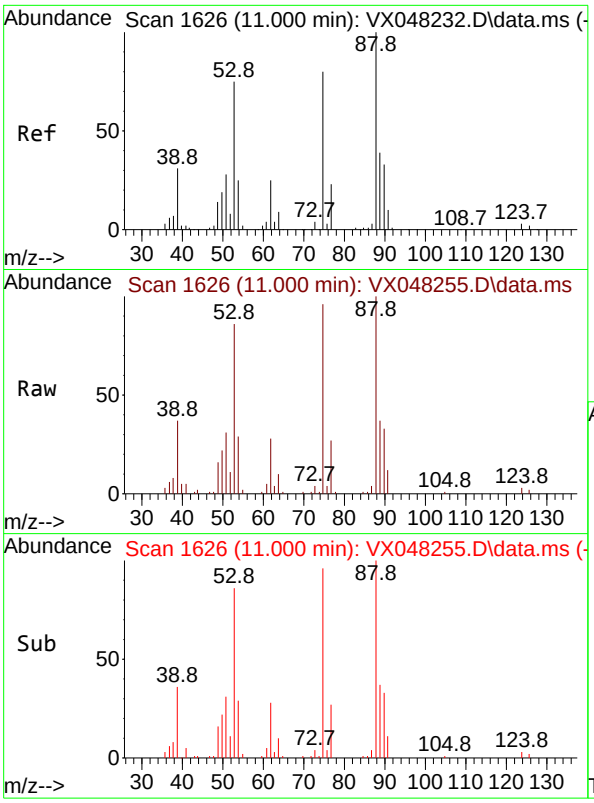


#80
1,3,5-Trimethylbenzene
Concen: 17.137 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:105 Resp: 114762

Ion	Ratio	Lower	Upper
105	100		
120	48.2	24.0	72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 16.530 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

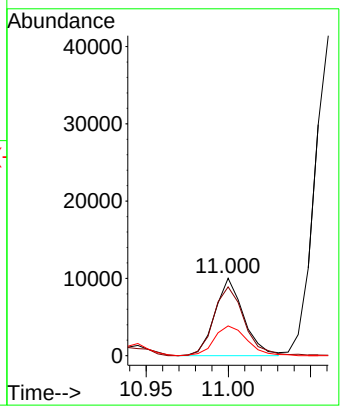
Tgt Ion: 75 Resp: 1220

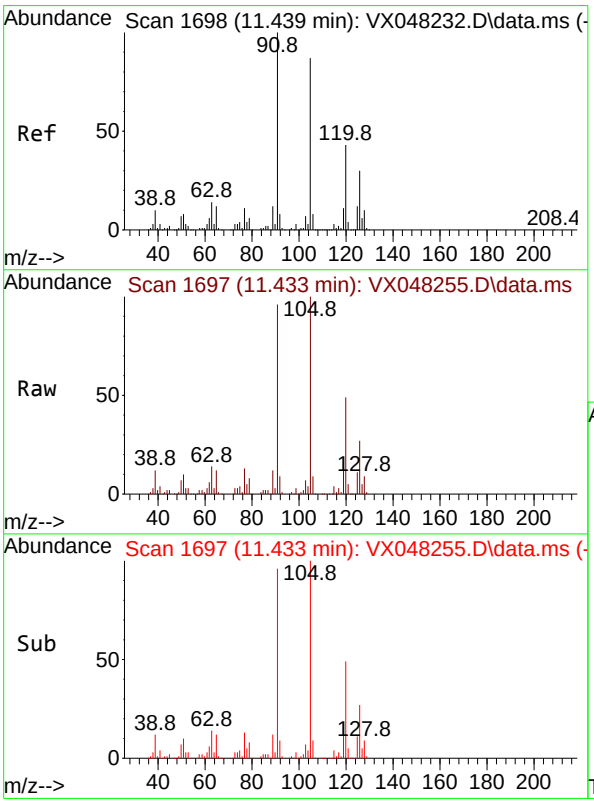
Ion	Ratio	Lower	Upper
75	100		
53	95.6	79.5	119.3
89	43.7	36.8	55.2

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

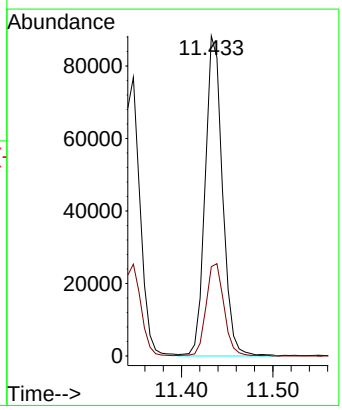


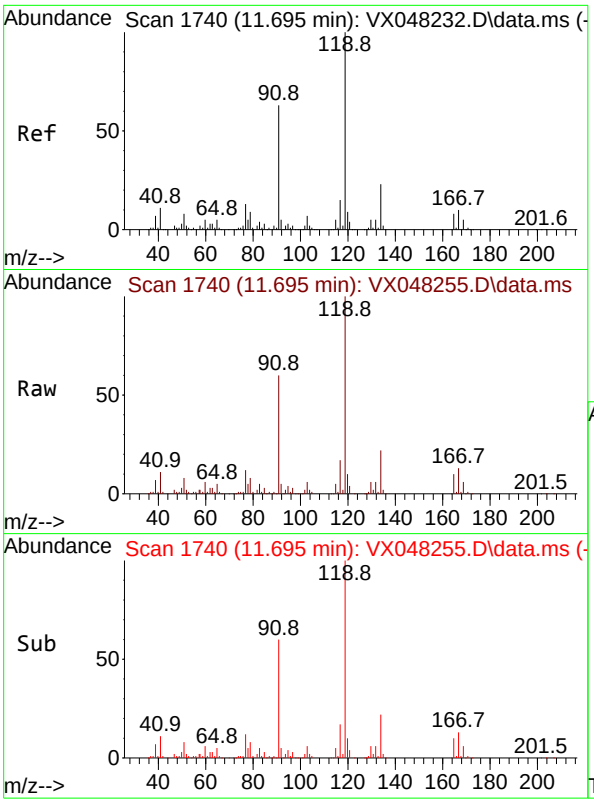


#82
4-Chlorotoluene
Concen: 17.202 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 91 Resp: 115993

Ion	Ratio	Lower	Upper
91	100		
126	30.0	14.1	42.4

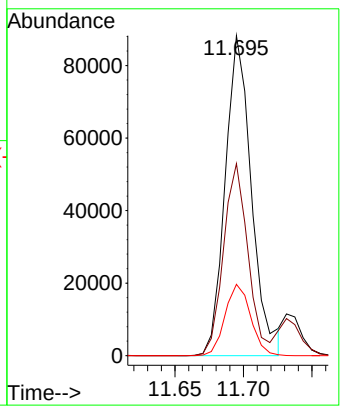




#83
tert-Butylbenzene
Concen: 17.108 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:119 Resp: 11771

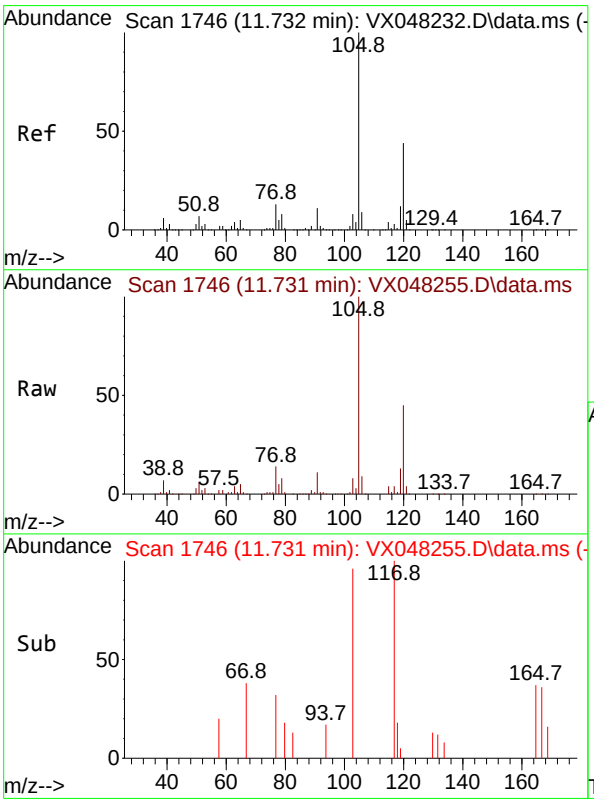
Ion	Ratio	Lower	Upper
119	100		
91	56.3	30.3	91.0
134	21.8	11.4	34.2



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

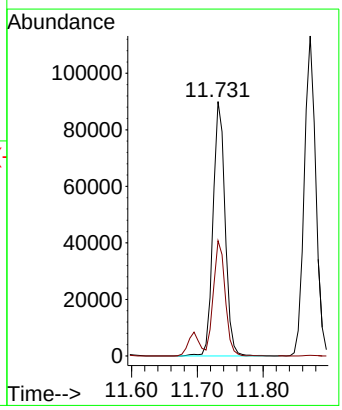
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

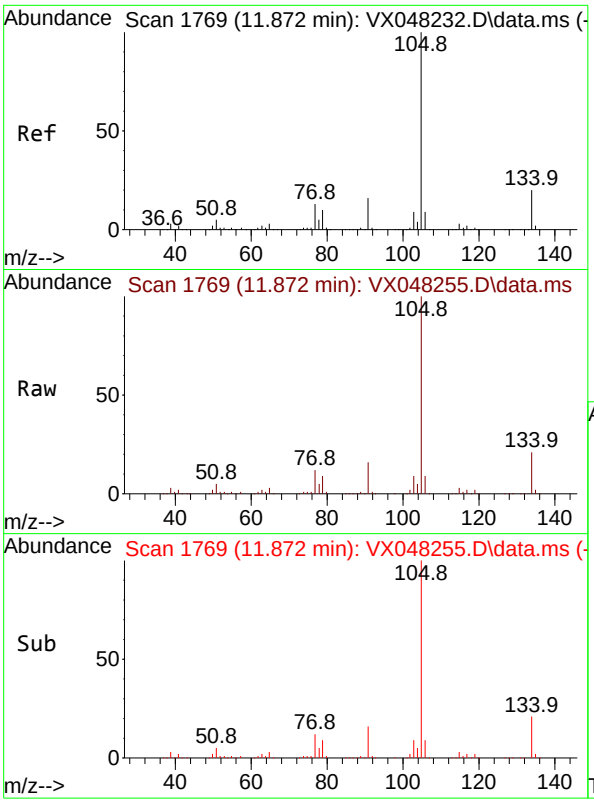


#84
1,2,4-Trimethylbenzene
Concen: 17.197 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:105 Resp: 114927

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.5





#85
sec-Butylbenzene
Concen: 16.712 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

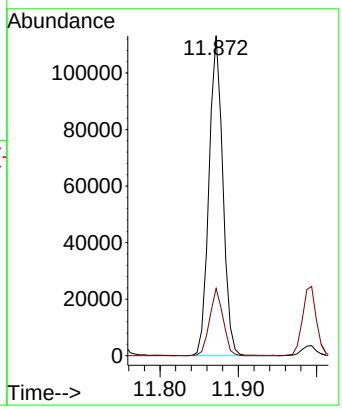
Tgt Ion:105 Resp: 13834

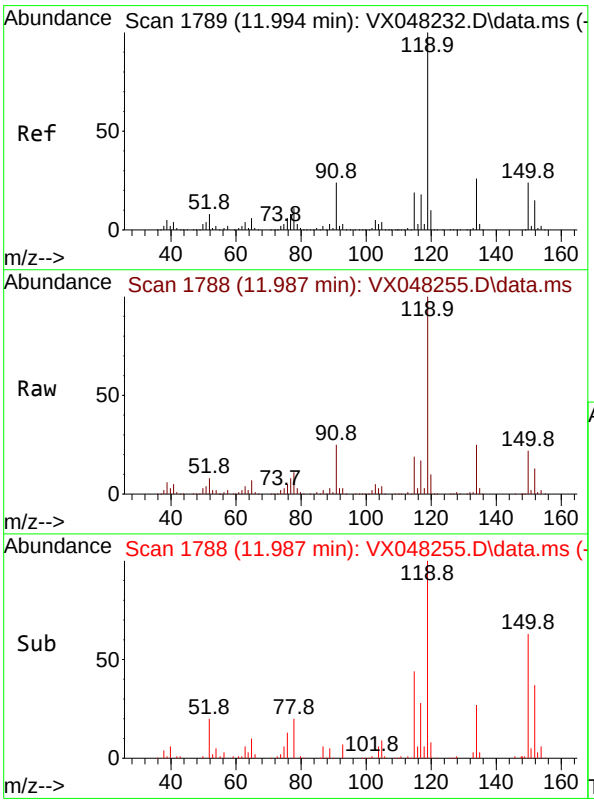
Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.1	30.1

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

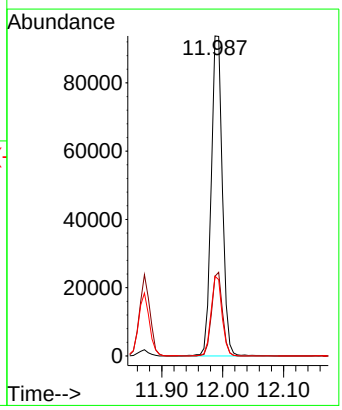


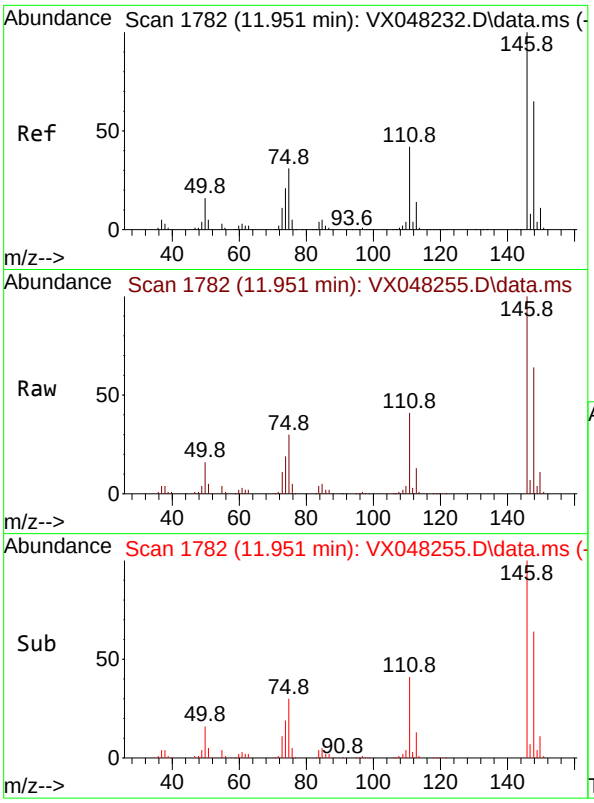


#86
p-Isopropyltoluene
Concen: 16.665 ug/l
RT: 11.987 min Scan# 1788
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:119 Resp: 119237

Ion	Ratio	Lower	Upper
119	100		
134	25.3	13.0	39.0
91	24.6	12.1	36.3

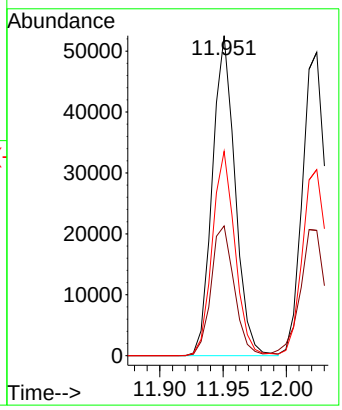




#87
1,3-Dichlorobenzene
Concen: 17.154 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:146 Resp: 6561

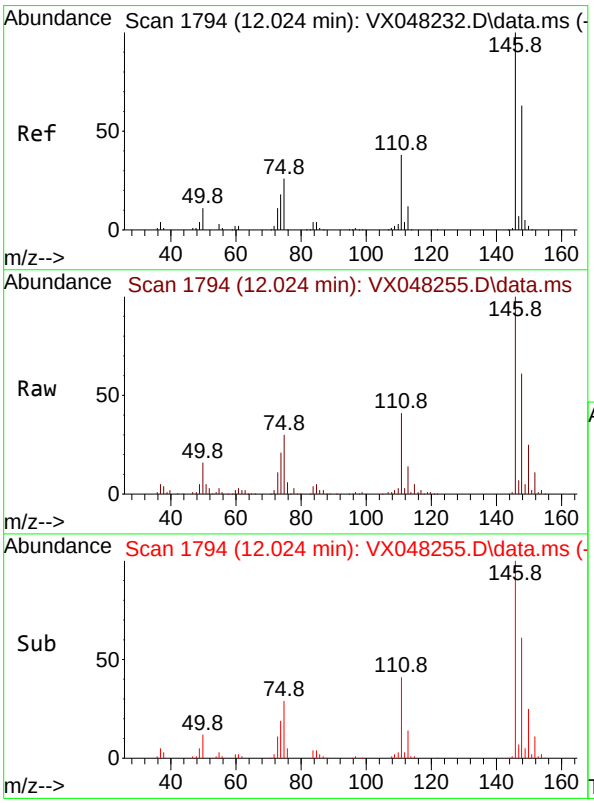
Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.4	61.2
148	63.6	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

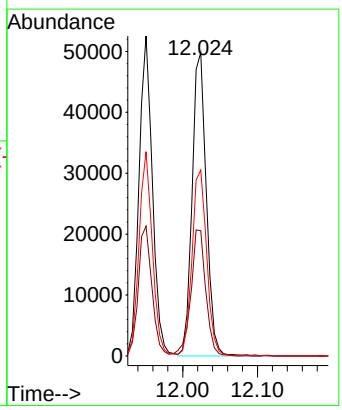
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

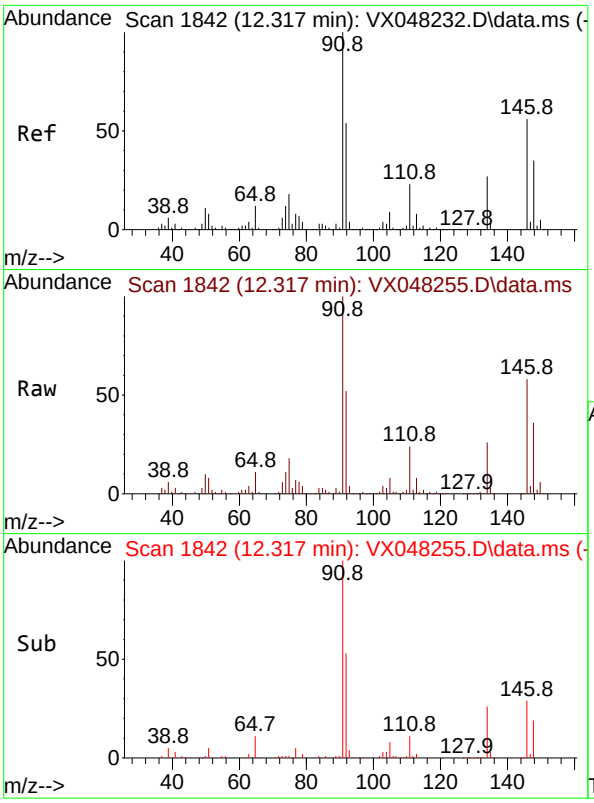


#88
1,4-Dichlorobenzene
Concen: 16.604 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:146 Resp: 65796

Ion	Ratio	Lower	Upper
146	100		
111	43.8	20.1	60.2
148	63.3	31.8	95.3





#89
n-Butylbenzene
Concen: 15.875 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

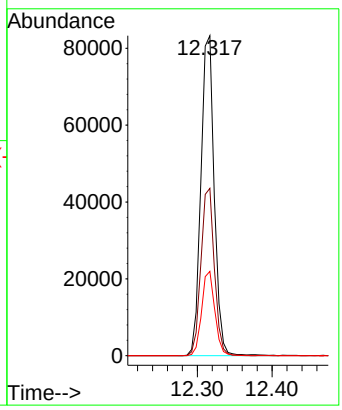
Tgt Ion: 91 Resp: 10338

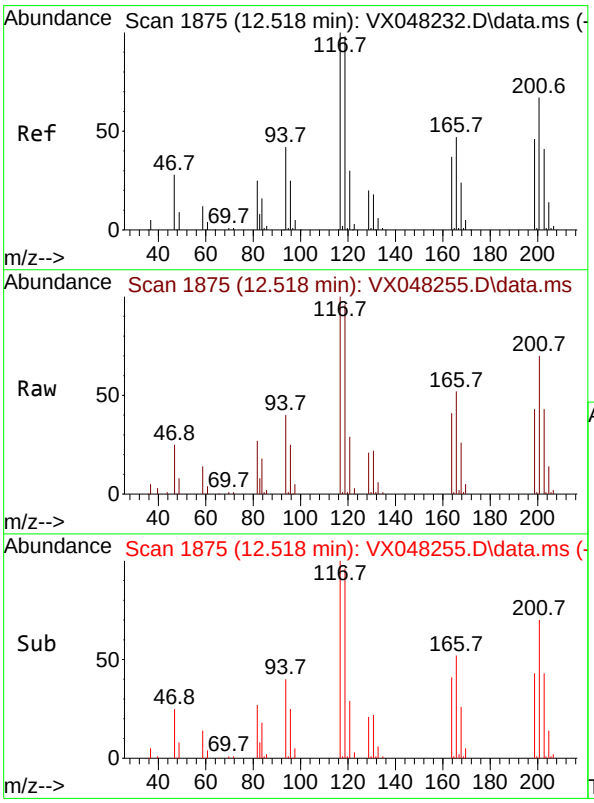
Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.9	80.6
134	26.0	12.7	38.1

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

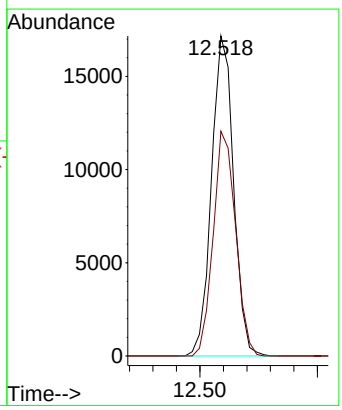


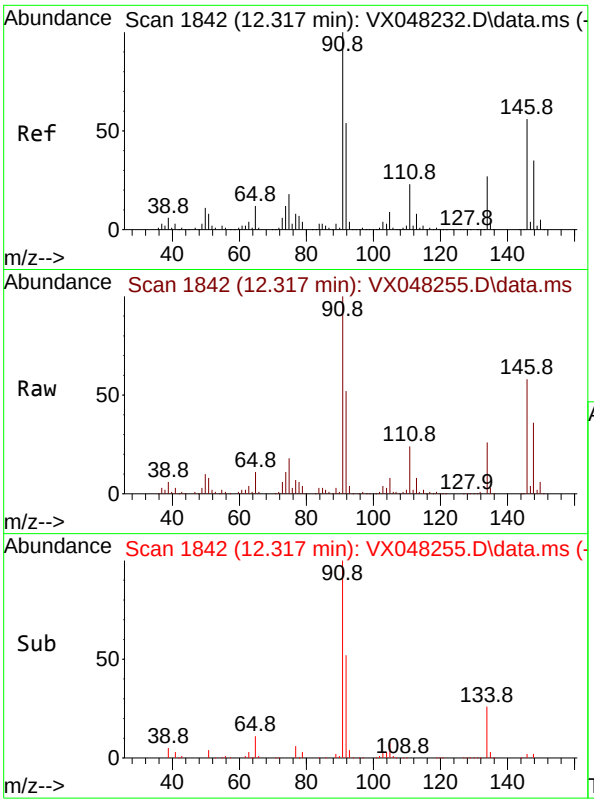


#90
Hexachloroethane
Concen: 15.825 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:117 Resp: 22360

Ion	Ratio	Lower	Upper
117	100		
201	71.4	34.1	102.2

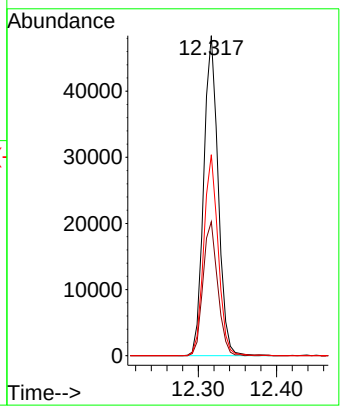




#91
1,2-Dichlorobenzene
Concen: 17.219 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:146 Resp: 6183

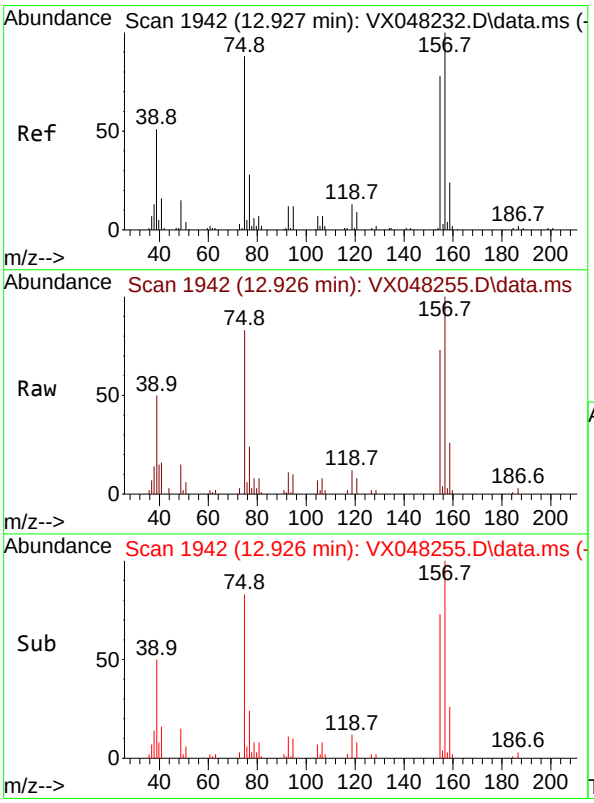
Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.9	65.5
148	62.5	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

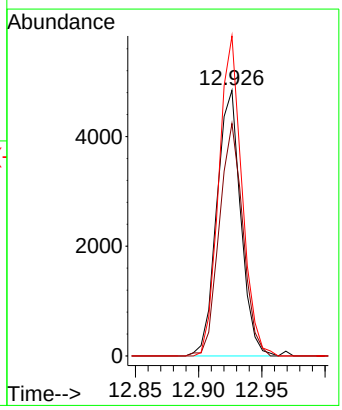
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

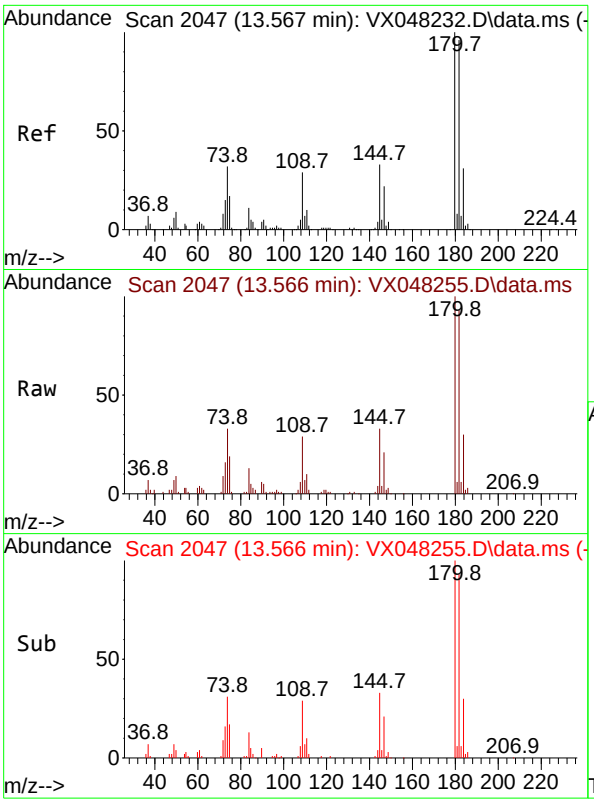


#92
1,2-Dibromo-3-Chloropropane
Concen: 14.205 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 75 Resp: 6372

Ion	Ratio	Lower	Upper
75	100		
155	86.2	42.8	128.4
157	116.0	54.2	162.6





#93
1,2,4-Trichlorobenzene
Concen: 15.216 ug/l
RT: 13.566 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

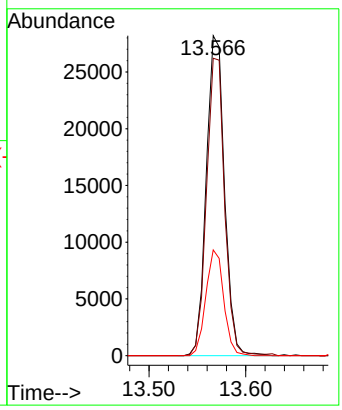
Tgt Ion:180 Resp: 3695

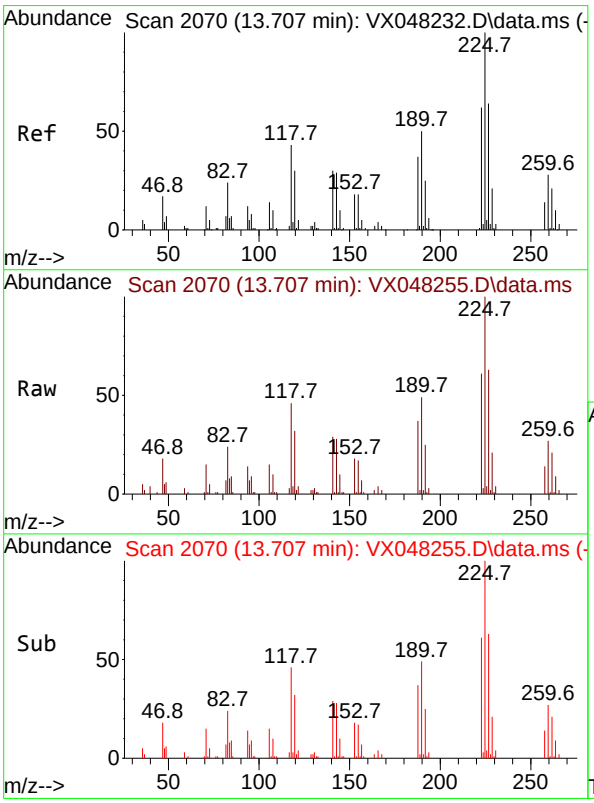
Ion	Ratio	Lower	Upper
180	100		
182	92.6	47.3	142.0
145	32.5	16.3	48.9

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025

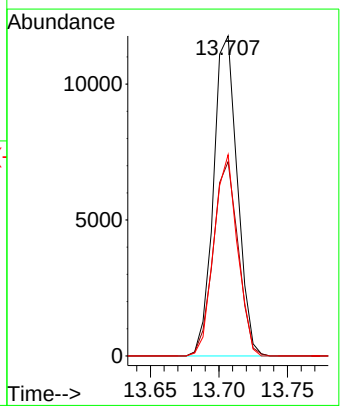


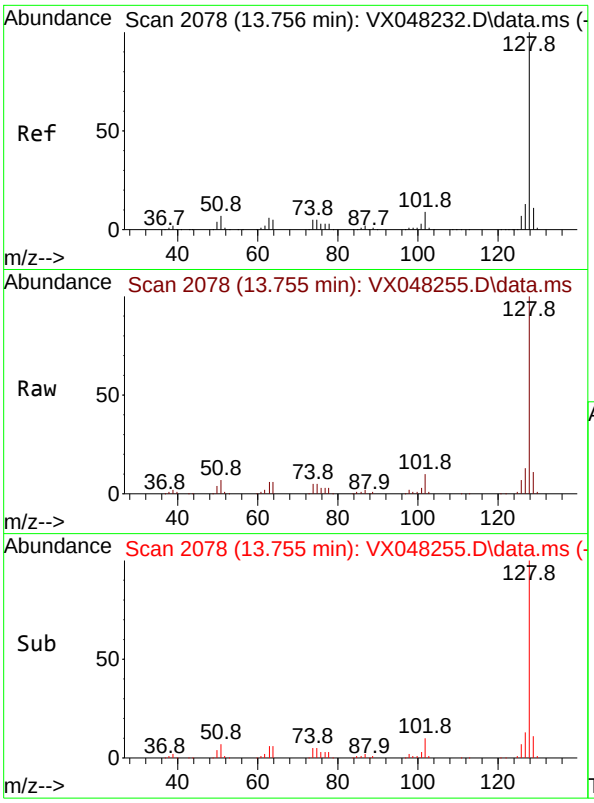


#94
Hexachlorobutadiene
Concen: 15.707 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:225 Resp: 14253

Ion	Ratio	Lower	Upper
225	100		
223	63.3	32.6	97.7
227	62.2	32.5	97.4

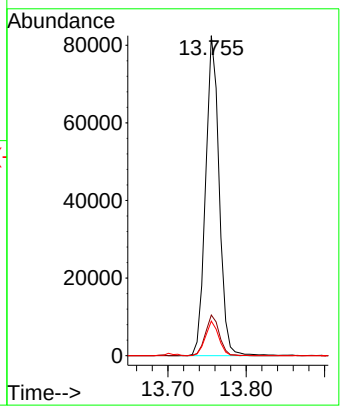




#95
Naphthalene
Concen: 15.345 ug/l
RT: 13.755 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:128 Resp: 9873

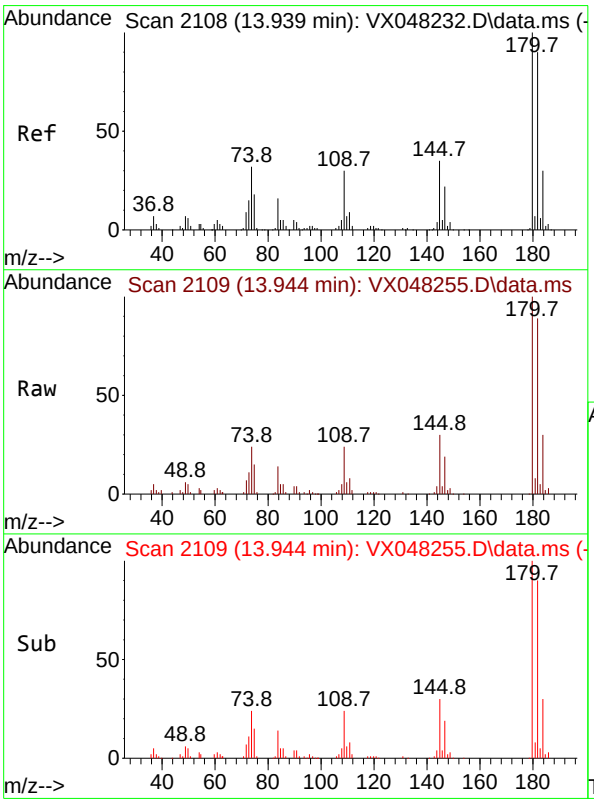
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.4
129	10.7	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Manual Integrations
APPROVED

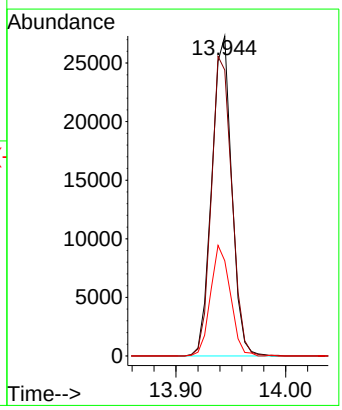
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/24/2025



#96
1,2,3-Trichlorobenzene
Concen: 15.454 ug/l
RT: 13.944 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:180 Resp: 34440

Ion	Ratio	Lower	Upper
180	100		
182	96.2	46.6	139.7
145	34.4	16.9	50.7



Raw Data: **VX048247.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX1020WBSD01	SDG No.:	Q3371
Lab Sample ID:	VX1020WBSD01	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS										
75-71-8	Dichlorodifluoromethane	17.4		1	0.22	0.50	1.00	ug/L	10/20/25 18:22	VX102025
74-87-3	Chloromethane	20.9		1	0.32	0.50	1.00	ug/L	10/20/25 18:22	VX102025
75-01-4	Vinyl Chloride	19.4		1	0.26	0.75	1.00	ug/L	10/20/25 18:22	VX102025
74-83-9	Bromomethane	21.5		1	1.40	3.80	5.00	ug/L	10/20/25 18:22	VX102025
75-00-3	Chloroethane	19.9		1	0.47	0.75	1.00	ug/L	10/20/25 18:22	VX102025
75-69-4	Trichlorofluoromethane	18.3		1	0.33	0.50	1.00	ug/L	10/20/25 18:22	VX102025
76-13-1	1,1,2-Trichlorotrifluoroethane	17.7		1	0.25	0.50	1.00	ug/L	10/20/25 18:22	VX102025
75-35-4	1,1-Dichloroethene	18.3		1	0.23	0.75	1.00	ug/L	10/20/25 18:22	VX102025
67-64-1	Acetone	86.3		1	1.50	3.80	5.00	ug/L	10/20/25 18:22	VX102025
75-15-0	Carbon Disulfide	17.2		1	0.21	0.75	1.00	ug/L	10/20/25 18:22	VX102025
1634-04-4	Methyl tert-butyl Ether	20.4		1	0.16	0.50	1.00	ug/L	10/20/25 18:22	VX102025
79-20-9	Methyl Acetate	20.2		1	0.27	0.75	1.00	ug/L	10/20/25 18:22	VX102025
75-09-2	Methylene Chloride	21.7		1	0.28	0.50	1.00	ug/L	10/20/25 18:22	VX102025
156-60-5	trans-1,2-Dichloroethene	19.0		1	0.23	0.50	1.00	ug/L	10/20/25 18:22	VX102025
75-34-3	1,1-Dichloroethane	19.5		1	0.23	0.50	1.00	ug/L	10/20/25 18:22	VX102025
110-82-7	Cyclohexane	18.1		1	1.50	2.50	5.00	ug/L	10/20/25 18:22	VX102025
78-93-3	2-Butanone	98.7		1	0.98	2.50	5.00	ug/L	10/20/25 18:22	VX102025
56-23-5	Carbon Tetrachloride	17.1		1	0.25	0.50	1.00	ug/L	10/20/25 18:22	VX102025
156-59-2	cis-1,2-Dichloroethene	19.9		1	0.19	0.75	1.00	ug/L	10/20/25 18:22	VX102025
74-97-5	Bromochloromethane	23.6		1	0.22	0.50	1.00	ug/L	10/20/25 18:22	VX102025
67-66-3	Chloroform	20.7		1	0.25	0.50	1.00	ug/L	10/20/25 18:22	VX102025
71-55-6	1,1,1-Trichloroethane	18.8		1	0.20	0.50	1.00	ug/L	10/20/25 18:22	VX102025
108-87-2	Methylcyclohexane	16.4		1	0.16	0.50	1.00	ug/L	10/20/25 18:22	VX102025
71-43-2	Benzene	18.9		1	0.15	0.50	1.00	ug/L	10/20/25 18:22	VX102025
107-06-2	1,2-Dichloroethane	20.1		1	0.22	0.50	1.00	ug/L	10/20/25 18:22	VX102025
79-01-6	Trichloroethene	18.2		1	0.090	0.75	1.00	ug/L	10/20/25 18:22	VX102025
78-87-5	1,2-Dichloropropane	20.4		1	0.20	0.50	1.00	ug/L	10/20/25 18:22	VX102025
75-27-4	Bromodichloromethane	19.8		1	0.22	0.50	1.00	ug/L	10/20/25 18:22	VX102025
108-10-1	4-Methyl-2-Pentanone	100		1	0.68	2.50	5.00	ug/L	10/20/25 18:22	VX102025
108-88-3	Toluene	18.7		1	0.14	0.50	1.00	ug/L	10/20/25 18:22	VX102025
10061-02-6	t-1,3-Dichloropropene	19.9		1	0.17	0.50	1.00	ug/L	10/20/25 18:22	VX102025
10061-01-5	cis-1,3-Dichloropropene	19.4		1	0.16	0.50	1.00	ug/L	10/20/25 18:22	VX102025
79-00-5	1,1,2-Trichloroethane	21.1		1	0.21	0.50	1.00	ug/L	10/20/25 18:22	VX102025
591-78-6	2-Hexanone	100		1	0.89	2.50	5.00	ug/L	10/20/25 18:22	VX102025
124-48-1	Dibromochloromethane	20.9		1	0.18	0.50	1.00	ug/L	10/20/25 18:22	VX102025
106-93-4	1,2-Dibromoethane	21.4		1	0.15	0.50	1.00	ug/L	10/20/25 18:22	VX102025
127-18-4	Tetrachloroethene	17.0		1	0.23	0.50	1.00	ug/L	10/20/25 18:22	VX102025
108-90-7	Chlorobenzene	19.0		1	0.12	0.50	1.00	ug/L	10/20/25 18:22	VX102025
100-41-4	Ethyl Benzene	17.8		1	0.13	0.50	1.00	ug/L	10/20/25 18:22	VX102025
179601-23-1	m/p-Xylenes	36.6		1	0.24	1.00	2.00	ug/L	10/20/25 18:22	VX102025
95-47-6	o-Xylene	18.4		1	0.12	0.50	1.00	ug/L	10/20/25 18:22	VX102025
100-42-5	Styrene	19.1		1	0.15	0.50	1.00	ug/L	10/20/25 18:22	VX102025
75-25-2	Bromoform	19.7		1	0.19	0.50	1.00	ug/L	10/20/25 18:22	VX102025

Raw Data: **VX048247.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX1020WBSD01	SDG No.:	Q3371
Lab Sample ID:	VX1020WBSD01	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	17.5		1	0.12	0.50	1.00	ug/L	10/20/25 18:22	VX102025
79-34-5	1,1,2,2-Tetrachloroethane	20.4		1	0.26	0.50	1.00	ug/L	10/20/25 18:22	VX102025
541-73-1	1,3-Dichlorobenzene	18.0		1	0.16	0.50	1.00	ug/L	10/20/25 18:22	VX102025
106-46-7	1,4-Dichlorobenzene	17.7		1	0.19	0.50	1.00	ug/L	10/20/25 18:22	VX102025
95-50-1	1,2-Dichlorobenzene	18.3		1	0.16	0.50	1.00	ug/L	10/20/25 18:22	VX102025
96-12-8	1,2-Dibromo-3-Chloropropane	18.5		1	0.53	0.75	1.00	ug/L	10/20/25 18:22	VX102025
120-82-1	1,2,4-Trichlorobenzene	16.5		1	0.20	0.50	1.00	ug/L	10/20/25 18:22	VX102025
87-61-6	1,2,3-Trichlorobenzene	17.0		1	0.20	0.75	1.00	ug/L	10/20/25 18:22	VX102025
SURROGATES										
17060-07-0	1,2-Dichloroethane-d4	57.5			81 - 118		115%	SPK: 50		
1868-53-7	Dibromofluoromethane	53.2			80 - 119		106%	SPK: 50		
2037-26-5	Toluene-d8	51.9			89 - 112		104%	SPK: 50		
460-00-4	4-Bromofluorobenzene	52.1			85 - 114		104%	SPK: 50		
INTERNAL STANDARDS		**Area Count**								
363-72-4	Pentafluorobenzene	115000								
540-36-3	1,4-Difluorobenzene	196000								
3114-55-4	Chlorobenzene-d5	184000								
3855-82-1	1,4-Dichlorobenzene-d4	92700								

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\VX102025\
Data File : VX048247.D
Acq On : 20 Oct 2025 18:22
Operator : JC/MD
Sample : VX1020WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 21 06:14:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	114781	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	195841	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	183563	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	92655	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	92554	57.512	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 115.020%			
35) Dibromofluoromethane	5.379	113	71144	53.212	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.420%			
50) Toluene-d8	8.635	98	243288	51.915	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 103.820%			
62) 4-Bromofluorobenzene	11.061	95	92954	52.139	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.280%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	20476	17.353	ug/l	94
3) Chloromethane	1.301	50	23064	20.941	ug/l	98
4) Vinyl Chloride	1.380	62	19788	19.402	ug/l	95
5) Bromomethane	1.618	94	14871	21.485	ug/l	96
6) Chloroethane	1.697	64	11916	19.883	ug/l #	87
7) Trichlorofluoromethane	1.898	101	35760	18.282	ug/l	97
8) Diethyl Ether	2.136	74	12054	21.901	ug/l	89
9) 1,1,2-Trichlorotrifluo...	2.337	101	21976	17.742	ug/l	96
10) Methyl Iodide	2.453	142	25897	16.631	ug/l	99
11) Tert butyl alcohol	2.947	59	17281	108.152	ug/l	99
12) 1,1-Dichloroethene	2.325	96	22080	18.323	ug/l	94
13) Acrolein	2.240	56	19228	117.991	ug/l	100
14) Allyl chloride	2.666	41	37950	18.968	ug/l	99
15) Acrylonitrile	3.056	53	60459	104.933	ug/l	100
16) Acetone	2.374	43	47646	86.302	ug/l	96
17) Carbon Disulfide	2.520	76	65187	17.164	ug/l	100
18) Methyl Acetate	2.703	43	23295	20.204	ug/l	95
19) Methyl tert-butyl Ether	3.111	73	83700	20.360	ug/l	100
20) Methylene Chloride	2.794	84	29196	21.703	ug/l #	85
21) trans-1,2-Dichloroethene	3.093	96	25126	18.982	ug/l	97
22) Diisopropyl ether	3.751	45	84376	21.145	ug/l	91
23) Vinyl Acetate	3.715	43	335871	105.369	ug/l	95
24) 1,1-Dichloroethane	3.605	63	47157	19.544	ug/l	98
25) 2-Butanone	4.544	43	68946	98.664	ug/l	98
26) 2,2-Dichloropropane	4.471	77	36422	16.724	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	30801	19.938	ug/l	97
28) Bromochloromethane	4.891	49	23578	23.567	ug/l	87
29) Tetrahydrofuran	4.989	42	42373	101.247	ug/l	92
30) Chloroform	5.080	83	53451	20.734	ug/l	98
31) Cyclohexane	5.465	56	36130	18.086	ug/l	95
32) 1,1,1-Trichloroethane	5.373	97	44597	18.771	ug/l	98
36) 1,1-Dichloropropene	5.684	75	32010	16.845	ug/l	100
37) Ethyl Acetate	4.709	43	32299	20.506	ug/l	98
38) Carbon Tetrachloride	5.672	117	40183	17.139	ug/l	94
39) Methylcyclohexane	7.367	83	36797	16.396	ug/l	95
40) Benzene	6.025	78	104164	18.880	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048247.D
Acq On : 20 Oct 2025 18:22
Operator : JC/MD
Sample : VX1020WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 21 06:14:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.904	41	16538	19.993	ug/l		96
42) 1,2-Dichloroethane	6.068	62	40822	20.051	ug/l		100
43) Isopropyl Acetate	6.330	43	52028	20.109	ug/l		97
44) Trichloroethene	7.111	130	26497	18.188	ug/l		94
45) 1,2-Dichloropropane	7.415	63	26694	20.350	ug/l		98
46) Dibromomethane	7.568	93	20469	20.029	ug/l		94
47) Bromodichloromethane	7.806	83	43761	19.832	ug/l		99
48) Methyl methacrylate	7.678	41	25318	19.392	ug/l		95
49) 1,4-Dioxane	7.641	88	6386	370.238	ug/l		99
51) 4-Methyl-2-Pentanone	8.555	43	153370	102.812	ug/l		96
52) Toluene	8.702	92	65370	18.650	ug/l		98
53) t-1,3-Dichloropropene	8.964	75	42315	19.900	ug/l		100
54) cis-1,3-Dichloropropene	8.354	75	44419	19.362	ug/l	#	88
55) 1,1,2-Trichloroethane	9.135	97	27480	21.083	ug/l		98
56) Ethyl methacrylate	9.104	69	38089	19.978	ug/l		96
57) 1,3-Dichloropropane	9.293	76	46146	20.726	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.226	63	92914	91.719	ug/l		95
59) 2-Hexanone	9.415	43	108257	104.075	ug/l		97
60) Dibromochloromethane	9.507	129	36604	20.894	ug/l		98
61) 1,2-Dibromoethane	9.592	107	29765	21.420	ug/l		93
64) Tetrachloroethene	9.257	164	23320	17.018	ug/l		97
65) Chlorobenzene	10.061	112	78337	18.971	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.147	131	28648	18.889	ug/l		100
67) Ethyl Benzene	10.177	91	125292	17.821	ug/l		99
68) m/p-Xylenes	10.287	106	95614	36.604	ug/l		99
69) o-Xylene	10.622	106	46336	18.374	ug/l		97
70) Styrene	10.640	104	82194	19.141	ug/l		99
71) Bromoform	10.781	173	23892	19.710	ug/l	#	99
73) Isopropylbenzene	10.945	105	118461	17.504	ug/l		99
74) N-amyl acetate	10.823	43	45284	18.864	ug/l		95
75) 1,1,2,2-Tetrachloroethane	11.195	83	37724	20.412	ug/l		99
76) 1,2,3-Trichloropropane	11.220	75	33455m	22.265	ug/l		
77) Bromobenzene	11.177	156	32159	18.952	ug/l		93
78) n-propylbenzene	11.287	91	136981	17.482	ug/l		97
79) 2-Chlorotoluene	11.348	91	85588	18.016	ug/l		98
80) 1,3,5-Trimethylbenzene	11.433	105	100372	17.922	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	10903	17.654	ug/l		99
82) 4-Chlorotoluene	11.439	91	102658	18.204	ug/l		97
83) tert-Butylbenzene	11.695	119	102465	17.807	ug/l		95
84) 1,2,4-Trimethylbenzene	11.732	105	101437	18.149	ug/l		99
85) sec-Butylbenzene	11.872	105	118566	17.126	ug/l		100
86) p-Isopropyltoluene	11.994	119	102269	17.091	ug/l		98
87) 1,3-Dichlorobenzene	11.951	146	57585	18.001	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	58623	17.690	ug/l		98
89) n-Butylbenzene	12.311	91	89874	16.501	ug/l		99
90) Hexachloroethane	12.518	117	19902	16.842	ug/l		94
91) 1,2-Dichlorobenzene	12.317	146	54922	18.286	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.927	75	6943	18.508	ug/l		98
93) 1,2,4-Trichlorobenzene	13.567	180	33533	16.510	ug/l		100
94) Hexachlorobutadiene	13.707	225	12548	16.531	ug/l		97
95) Naphthalene	13.756	128	94002	17.469	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	31666	16.990	ug/l		98

Sample Results: **VX048247.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048247.D
Acq On : 20 Oct 2025 18:22
Operator : JC/MD
Sample : VX1020WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 21 06:14:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

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

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

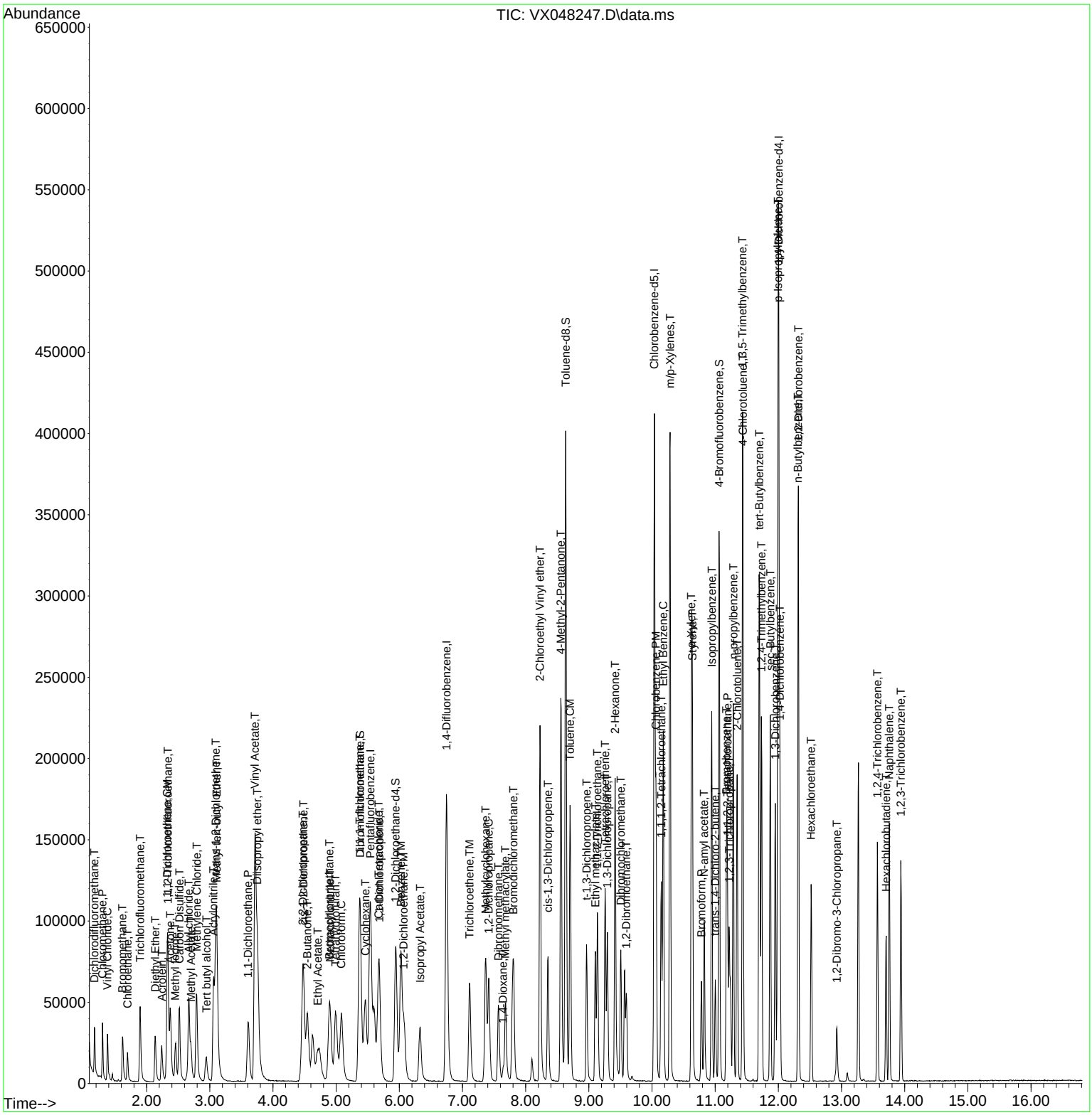
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048247.D
Acq On : 20 Oct 2025 18:22
Operator : JC/MD
Sample : VX1020WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

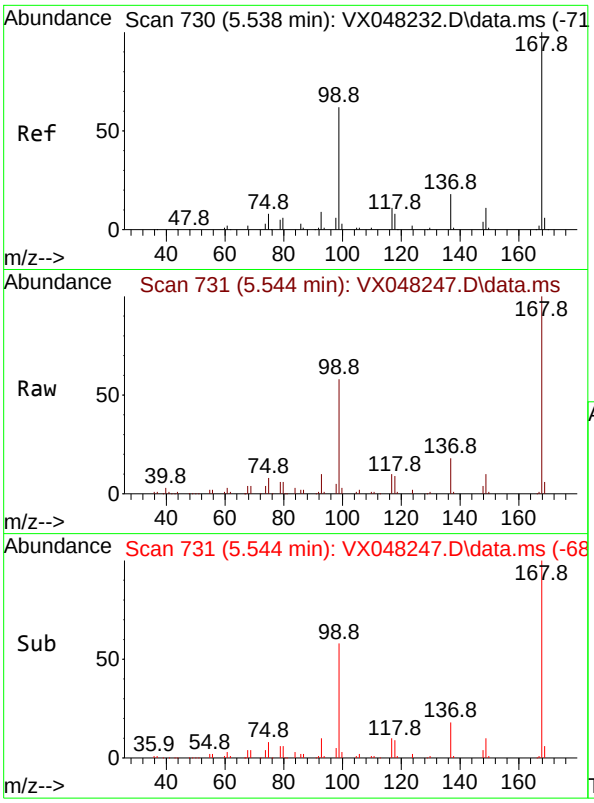
Quant Time: Oct 21 06:14:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

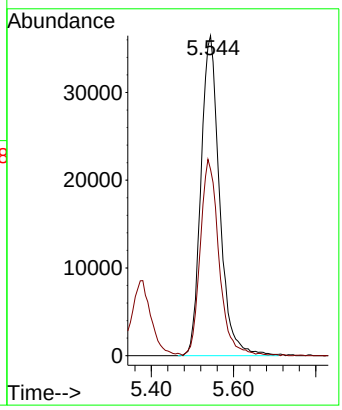




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:168 Resp: 11478

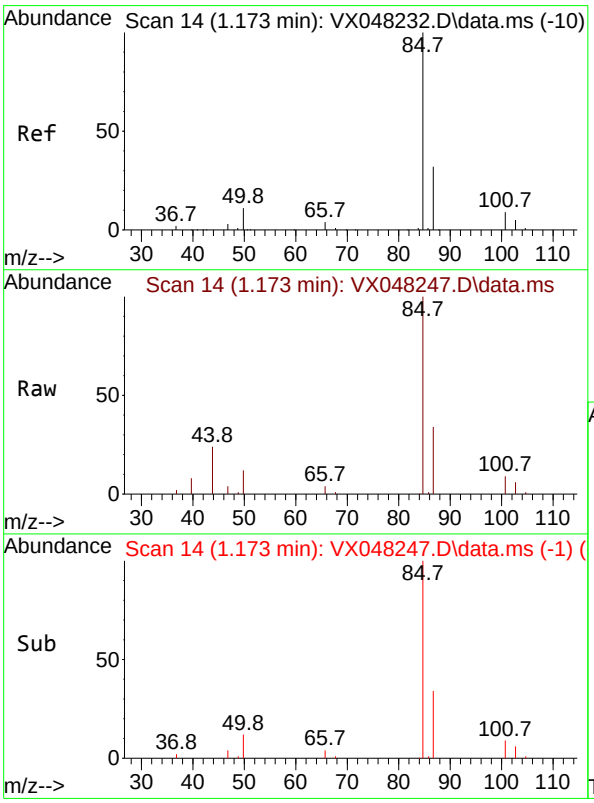
Ion	Ratio	Lower	Upper
168	100		
99	58.0	46.4	69.6



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

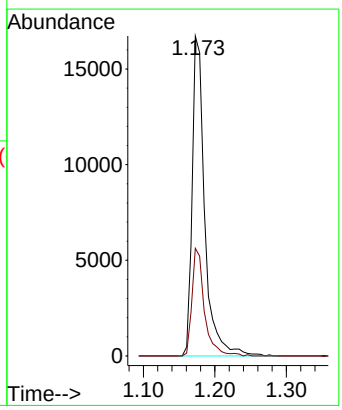
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

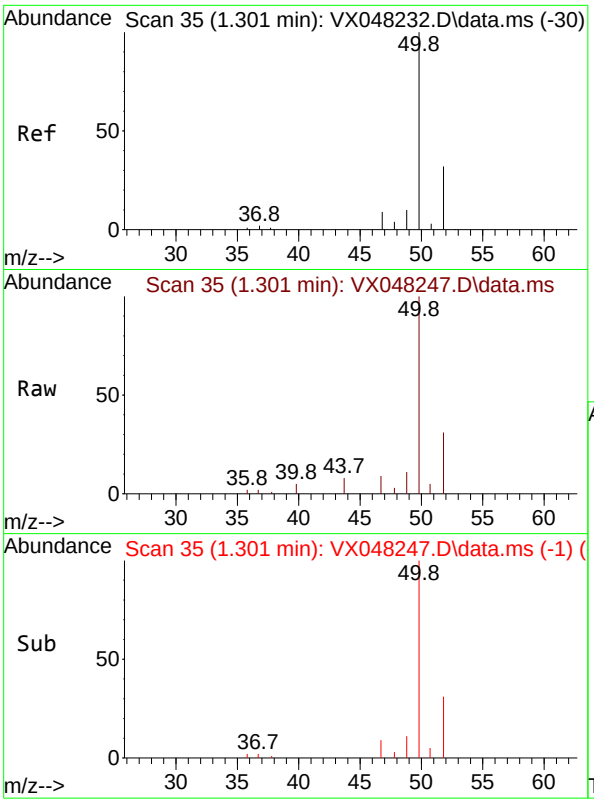


#2
Dichlorodifluoromethane
Concen: 17.353 ug/l
RT: 1.173 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 85 Resp: 20476

Ion	Ratio	Lower	Upper
85	100		
87	33.7	15.3	45.9

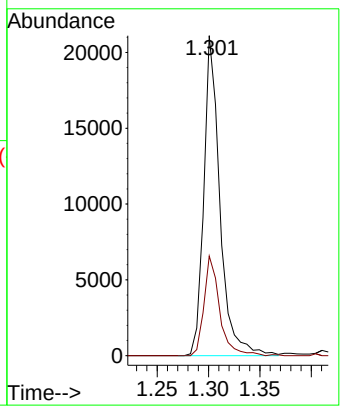




#3
Chloromethane
Concen: 20.941 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 50 Resp: 2306

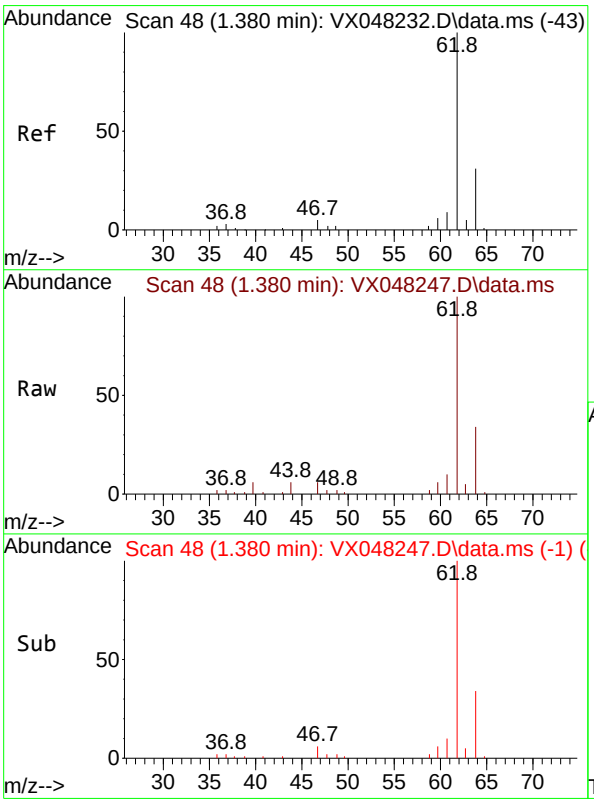
Ion	Ratio	Lower	Upper
50	100		
52	31.2	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

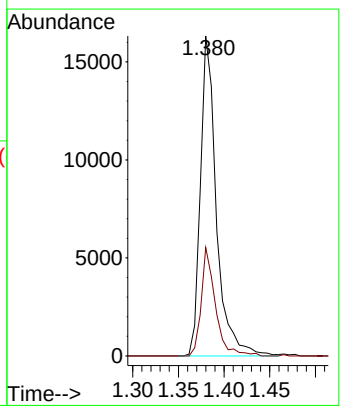
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

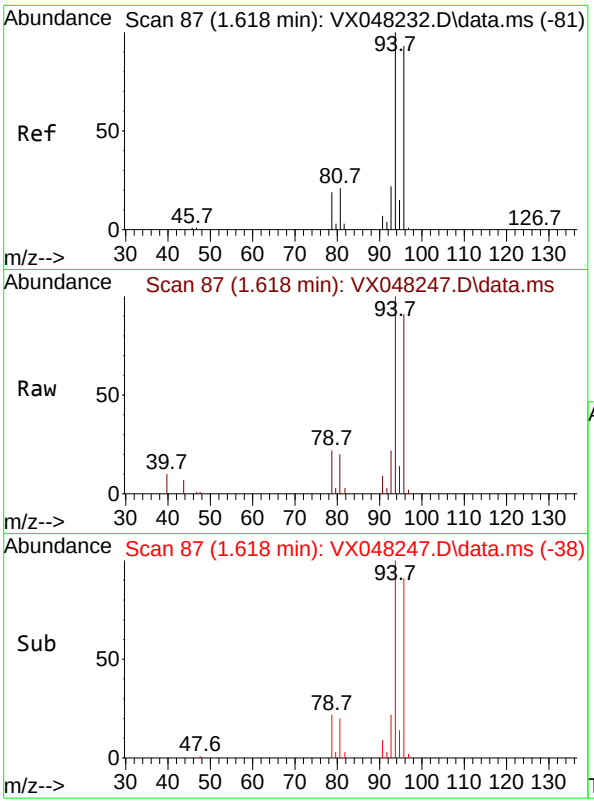


#4
Vinyl Chloride
Concen: 19.402 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 62 Resp: 19788

Ion	Ratio	Lower	Upper
62	100		
64	33.9	25.1	37.7

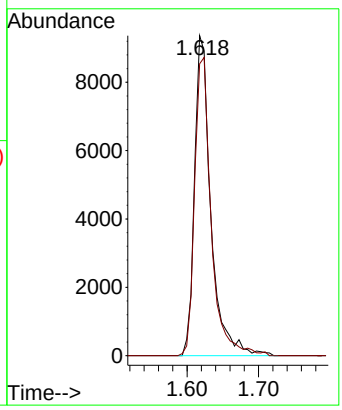




#5
Bromomethane
Concen: 21.485 ug/l
RT: 1.618 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 94 Resp: 1487

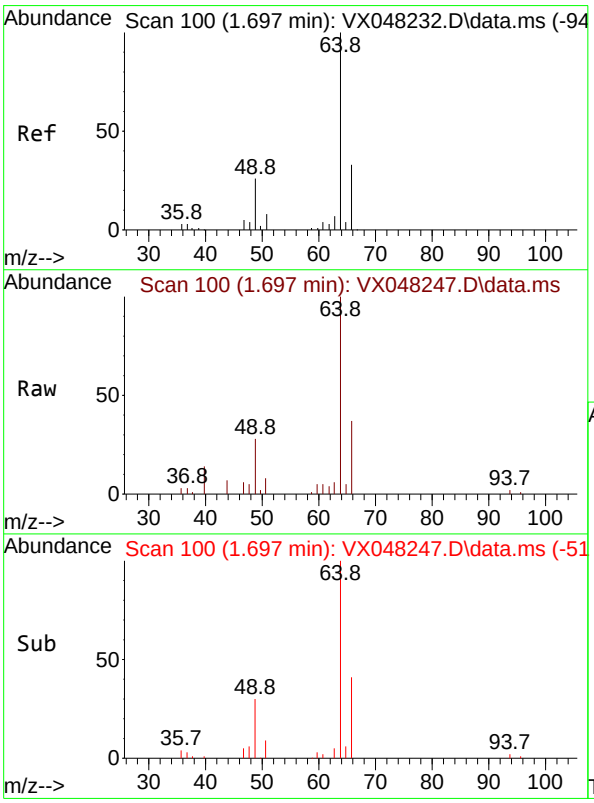
Ion	Ratio	Lower	Upper
94	100		
96	91.2	76.0	114.0



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

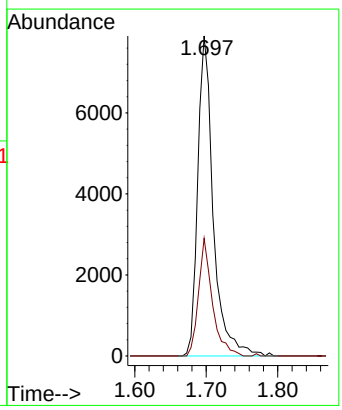
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

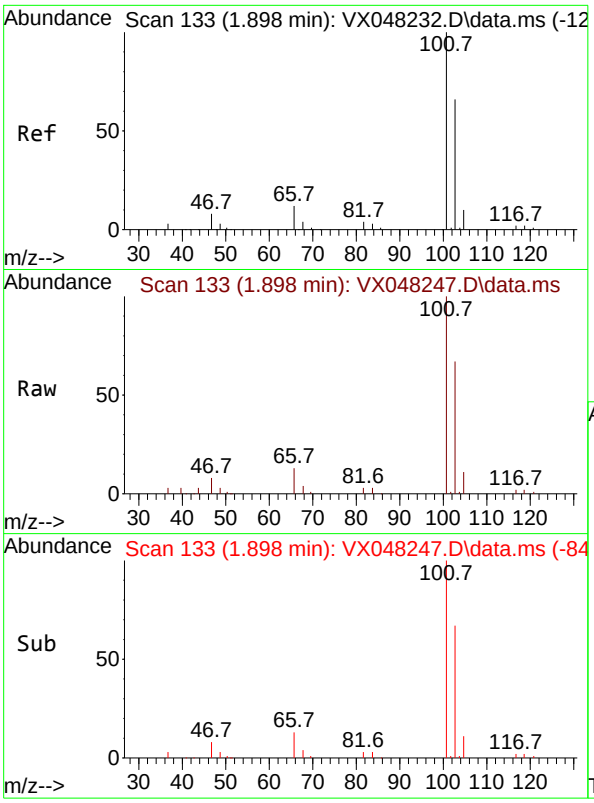


#6
Chloroethane
Concen: 19.883 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 64 Resp: 11916

Ion	Ratio	Lower	Upper
64	100		
66	36.7	23.9	35.9#





#7
Trichlorofluoromethane
Concen: 18.282 ug/l
RT: 1.898 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

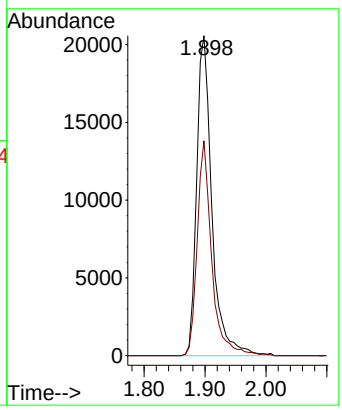
Tgt Ion:101 Resp: 3576

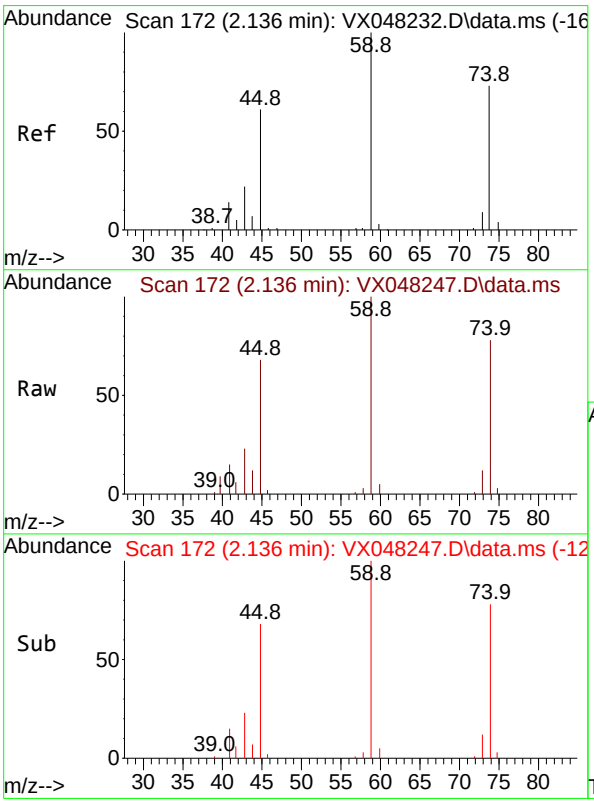
Ion	Ratio	Lower	Upper
101	100		
103	67.2	51.6	77.4

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

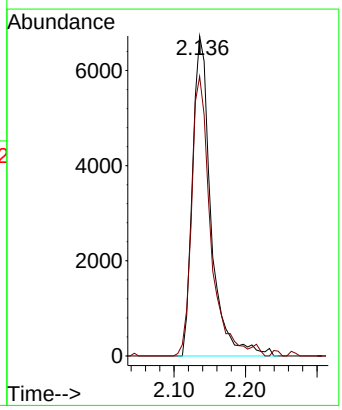


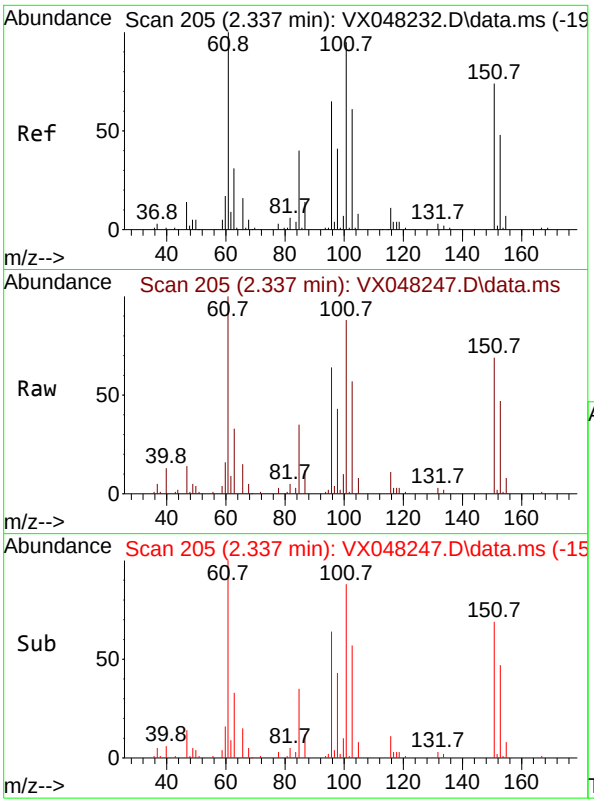


#8
Diethyl Ether
Concen: 21.901 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 74 Resp: 12054

Ion	Ratio	Lower	Upper
74	100		
45	88.8	50.0	149.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.742 ug/l
RT: 2.337 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

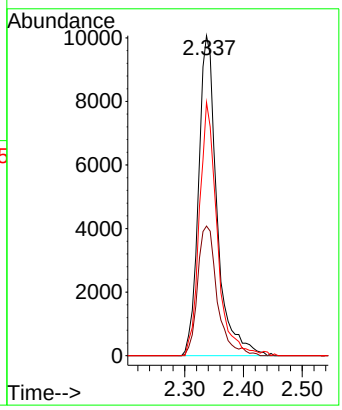
Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

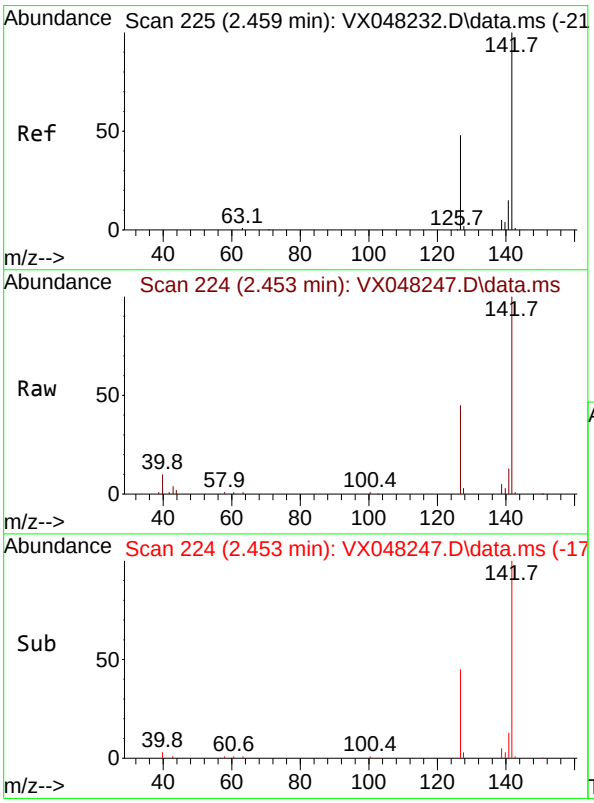
Tgt Ion:101 Resp: 2197(

Ion	Ratio	Lower	Upper
101	100		
85	43.2	35.6	53.4
151	76.5	58.0	87.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

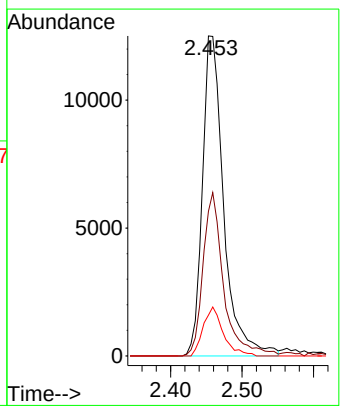


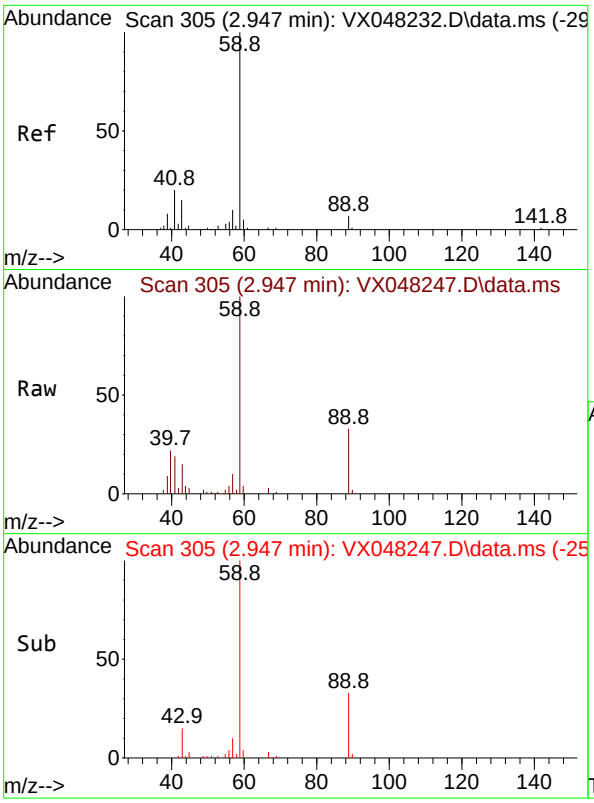


#10
Methyl Iodide
Concen: 16.631 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:142 Resp: 25897

Ion	Ratio	Lower	Upper
142	100		
127	49.3	38.5	57.7
141	14.4	11.6	17.4





#11
Tert butyl alcohol
Concen: 108.152 ug/l
RT: 2.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

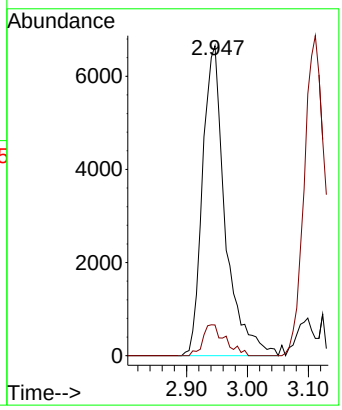
Tgt Ion: 59 Resp: 1728

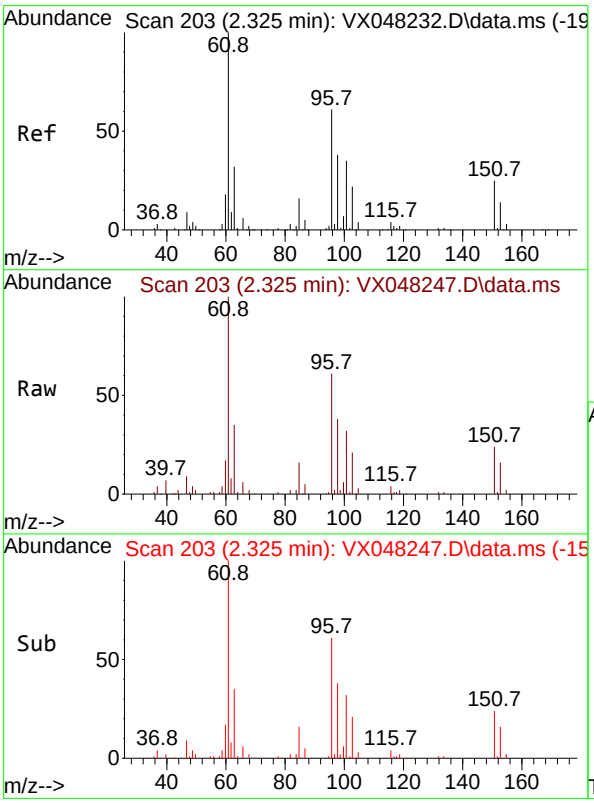
Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.2	12.4

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

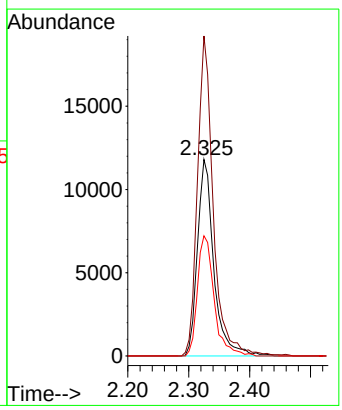


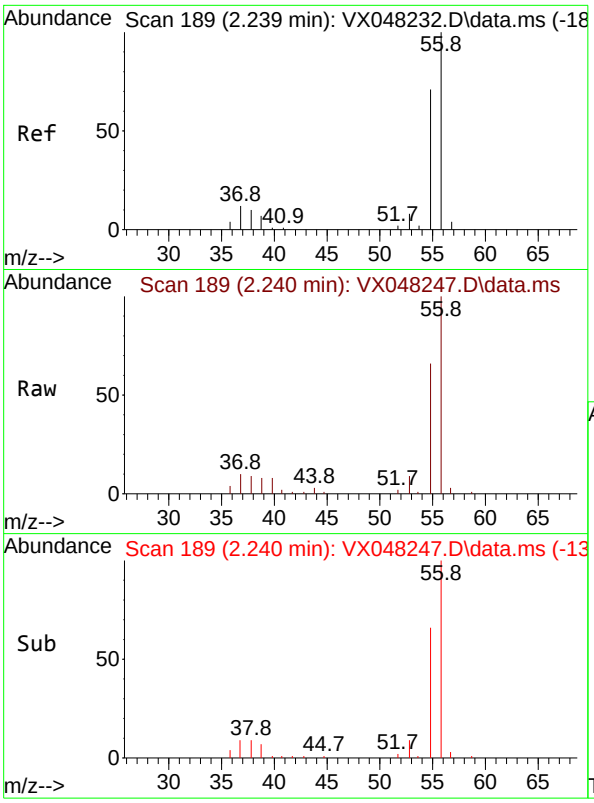


#12
1,1-Dichloroethene
Concen: 18.323 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 96 Resp: 22080

Ion	Ratio	Lower	Upper
96	100		
61	162.9	139.0	208.6
98	63.7	52.4	78.6

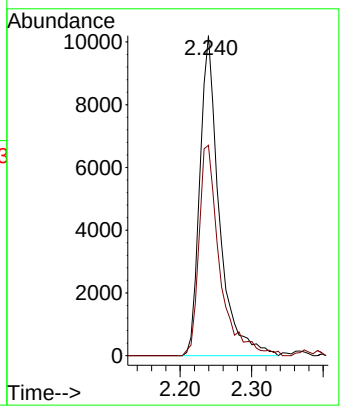




#13
Acrolein
Concen: 117.991 ug/l
RT: 2.240 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 56 Resp: 1922

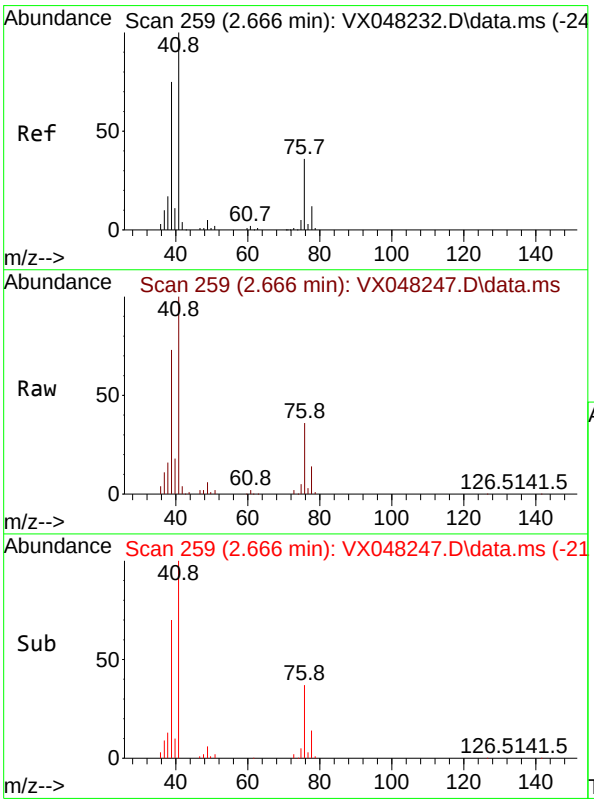
Ion	Ratio	Lower	Upper
56	100		
55	70.4	56.1	84.1



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

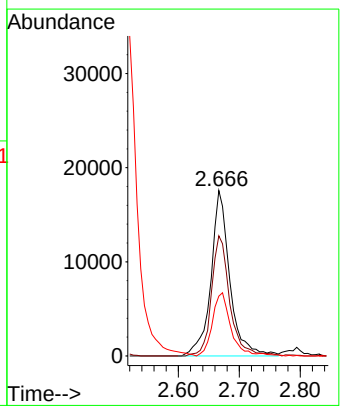
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

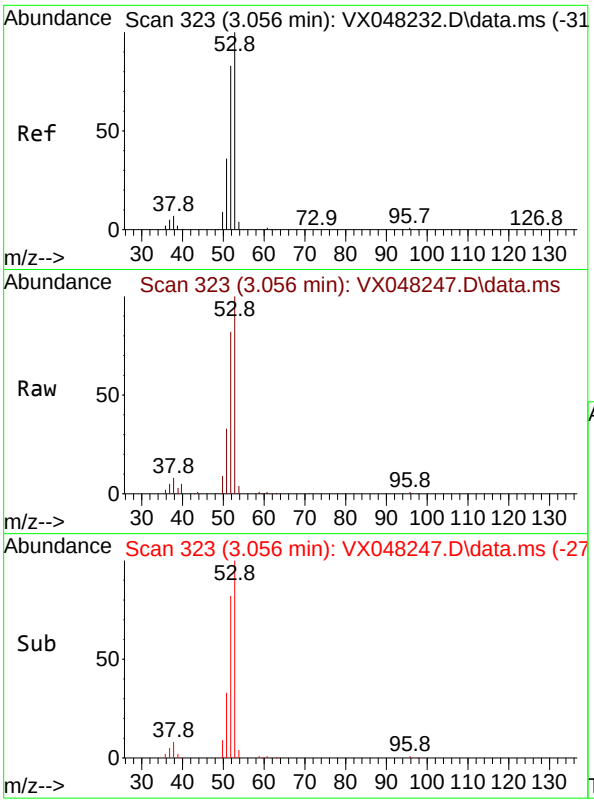


#14
Allyl chloride
Concen: 18.968 ug/l
RT: 2.666 min Scan# 259
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 41 Resp: 37950

Ion	Ratio	Lower	Upper
41	100		
39	70.1	56.0	84.0
76	36.3	27.5	41.3

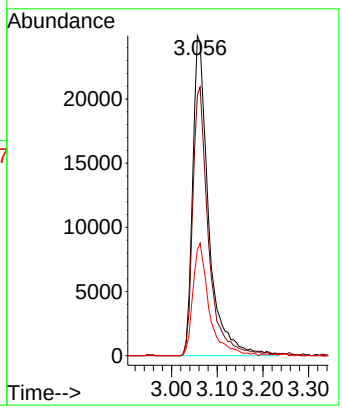




#15
Acrylonitrile
Concen: 104.933 ug/l
RT: 3.056 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 53 Resp: 6045

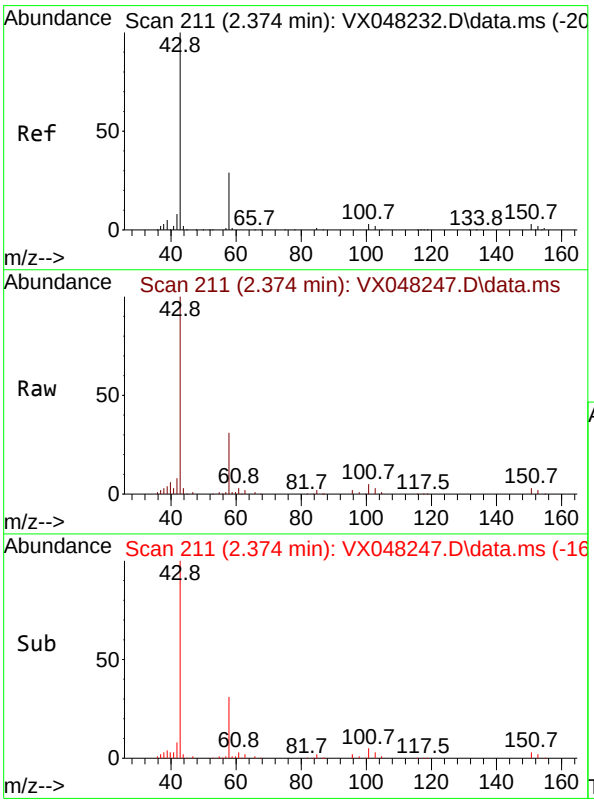
Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.1	99.1
51	35.9	29.0	43.4



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

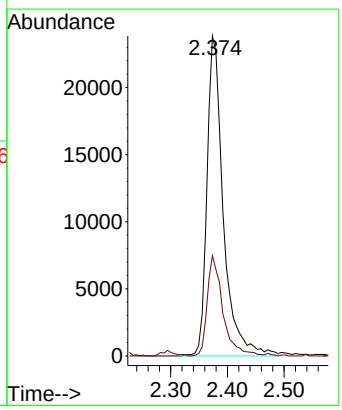
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

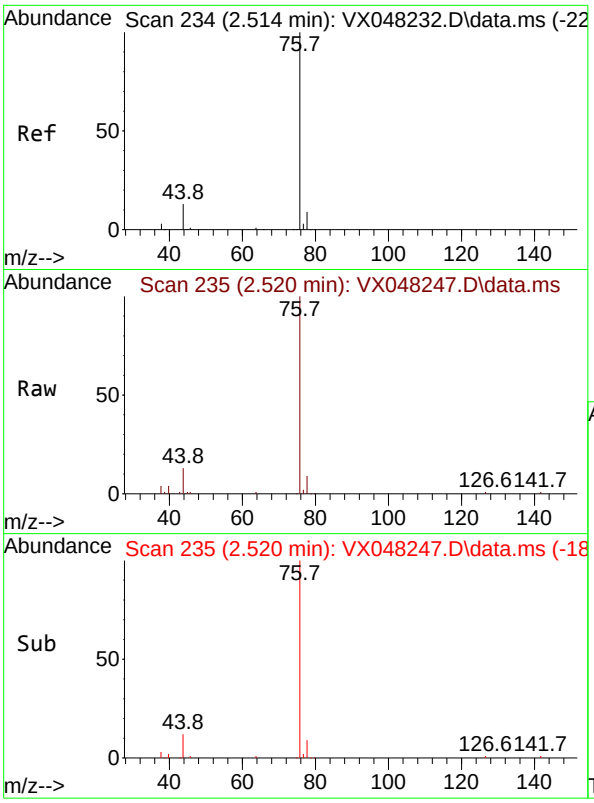


#16
Acetone
Concen: 86.302 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 43 Resp: 47646

Ion	Ratio	Lower	Upper
43	100		
58	31.4	23.4	35.2





#17
Carbon Disulfide
Concen: 17.164 ug/l
RT: 2.520 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

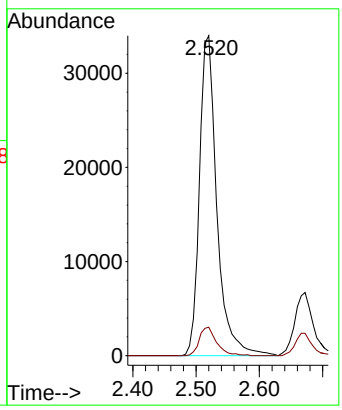
Tgt Ion: 76 Resp: 6518

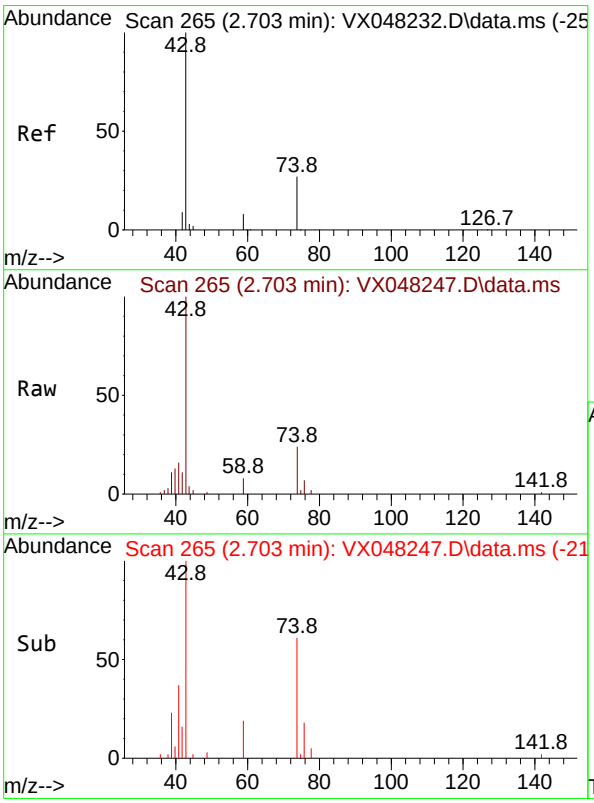
Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.1	10.7

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

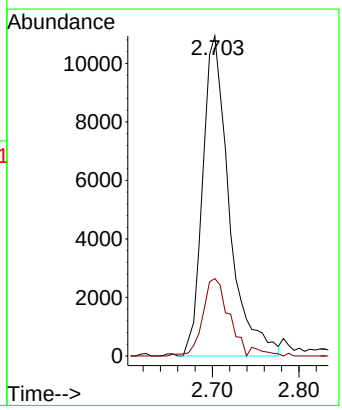


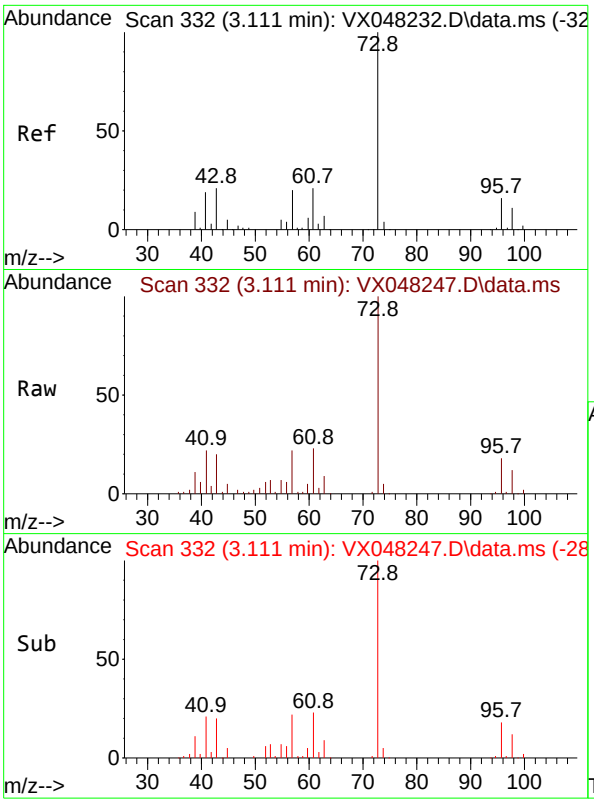


#18
Methyl Acetate
Concen: 20.204 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 43 Resp: 23295

Ion	Ratio	Lower	Upper
43	100		
74	24.1	17.5	26.3





#19
Methyl tert-butyl Ether
Concen: 20.360 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

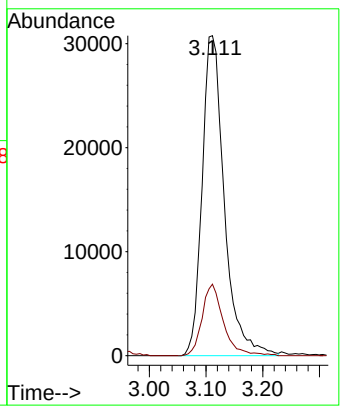
Tgt Ion: 73 Resp: 8370

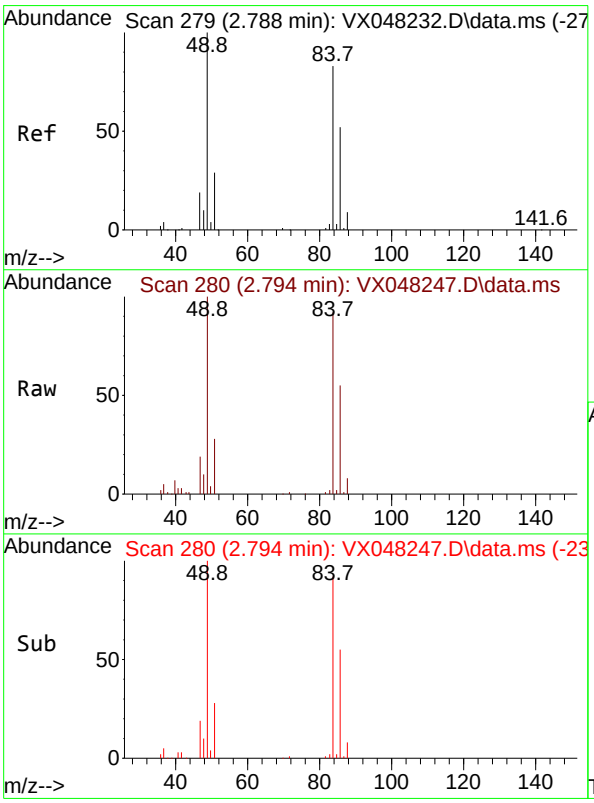
Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.7	26.5

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

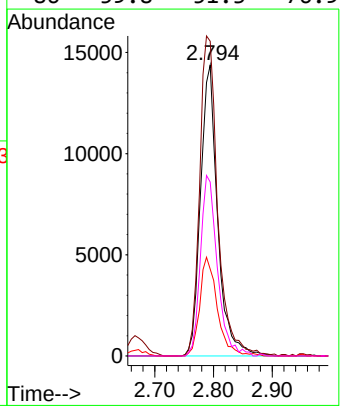


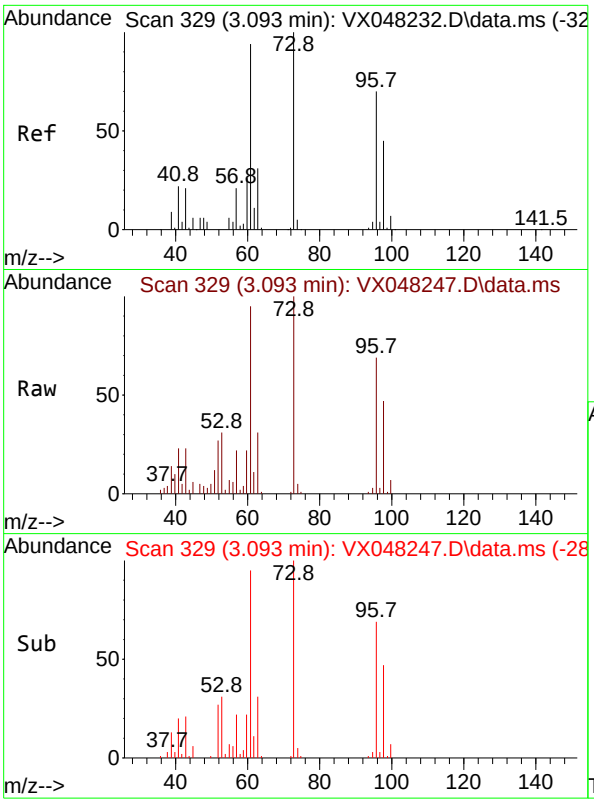


#20
Methylene Chloride
Concen: 21.703 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 84 Resp: 29196

Ion	Ratio	Lower	Upper
84	100		
49	108.2	104.1	156.1
51	29.8	31.3	46.9#
86	59.8	51.3	76.9





#21
trans-1,2-Dichloroethene
Concen: 18.982 ug/l
RT: 3.093 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

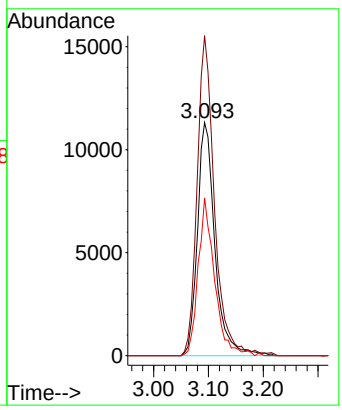
Tgt Ion: 96 Resp: 2512

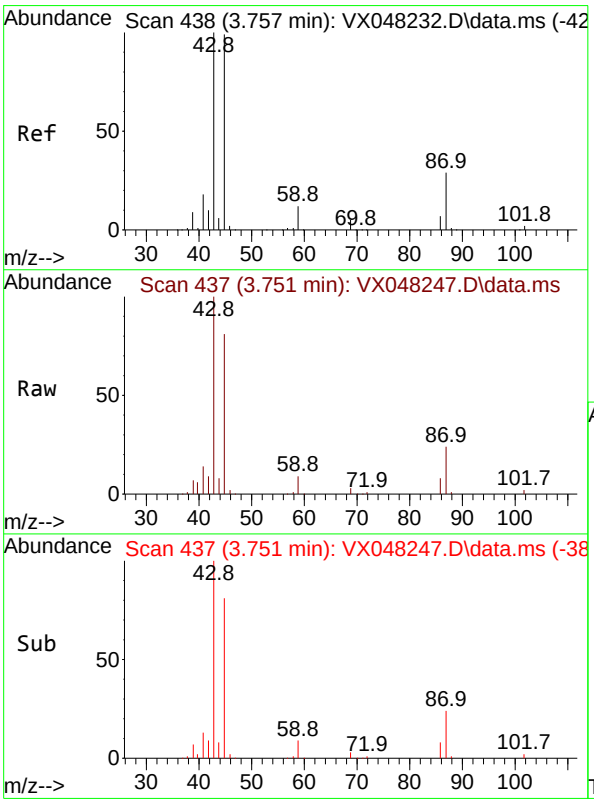
Ion	Ratio	Lower	Upper
96	100		
61	137.2	111.9	167.9
98	67.7	51.2	76.8

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

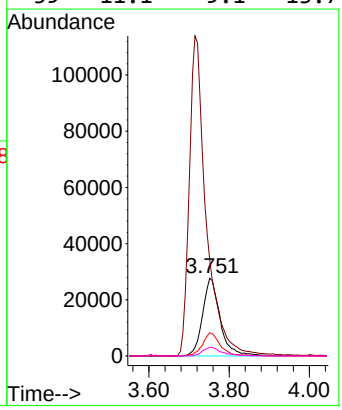


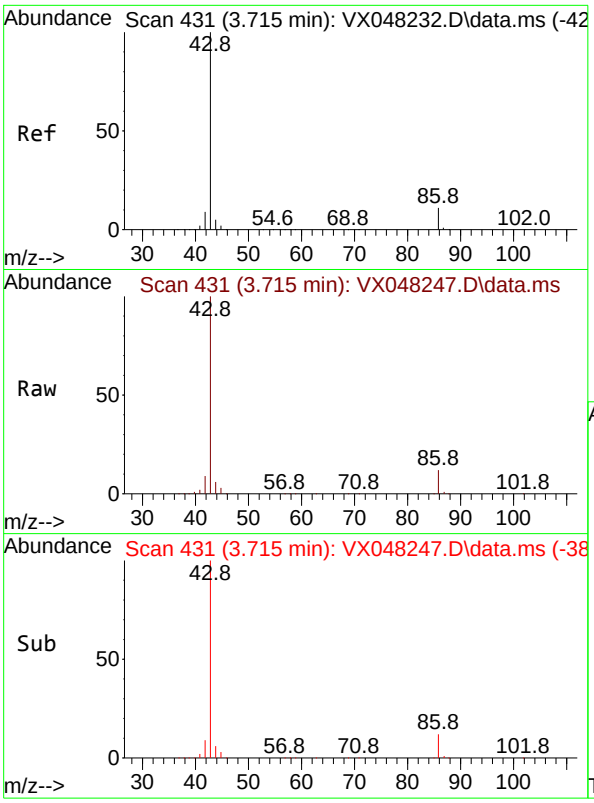


#22
Diisopropyl ether
Concen: 21.145 ug/l
RT: 3.751 min Scan# 437
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 45 Resp: 84376

Ion	Ratio	Lower	Upper
45	100		
43	122.6	89.8	134.8
87	29.9	20.6	31.0
59	11.1	9.1	13.7





#23
Vinyl Acetate
Concen: 105.369 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

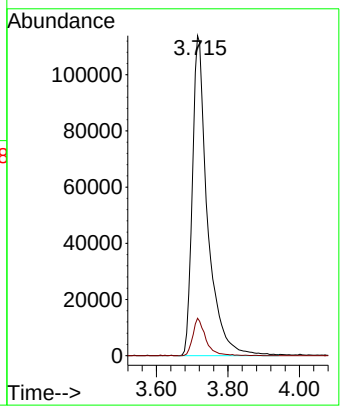
Tgt Ion: 43 Resp: 33587

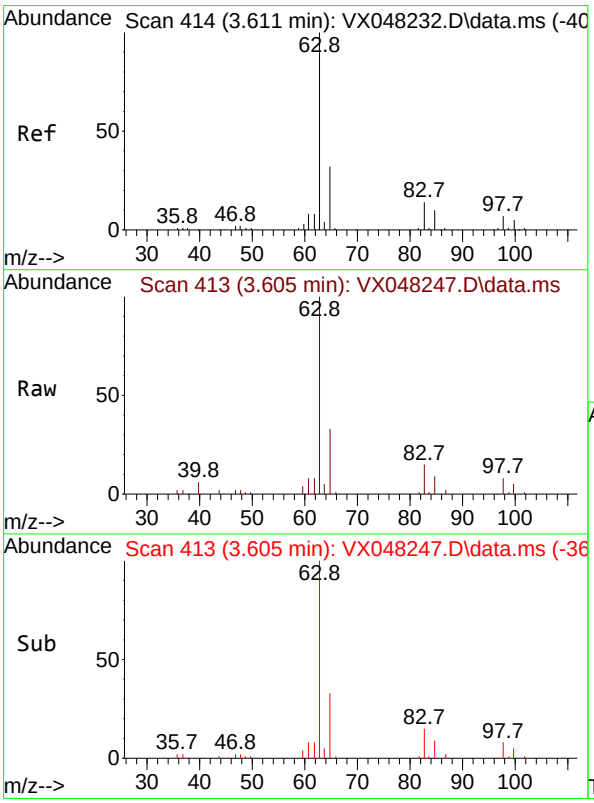
Ion	Ratio	Lower	Upper
43	100		
86	11.7	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

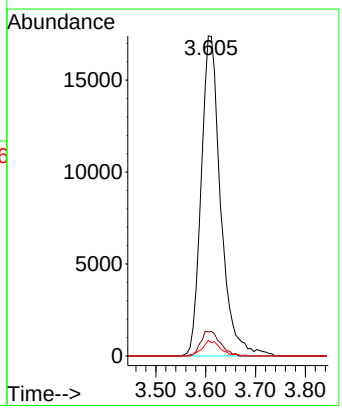


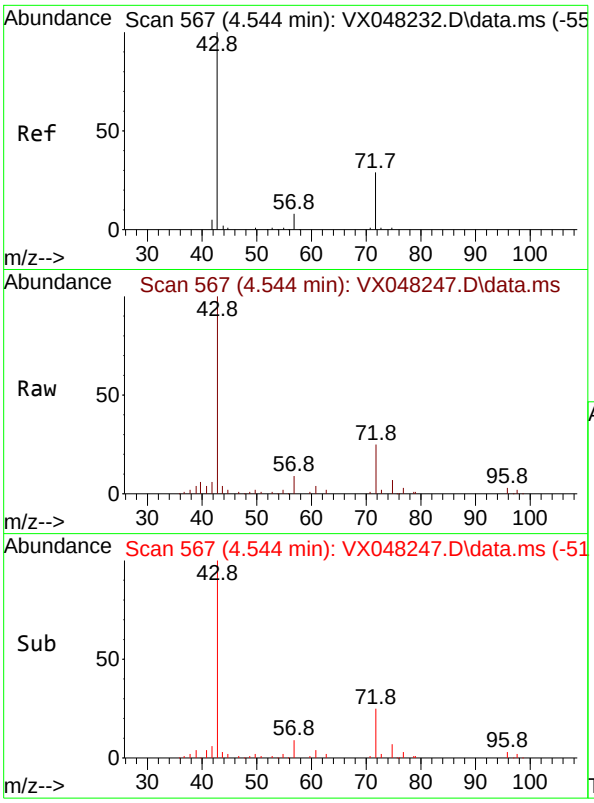


#24
1,1-Dichloroethane
Concen: 19.544 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 63 Resp: 47157

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.5	10.6
100	4.9	2.1	6.3





#25
2-Butanone
Concen: 98.664 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

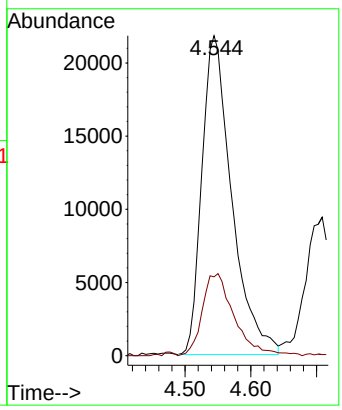
Tgt Ion: 43 Resp: 6894

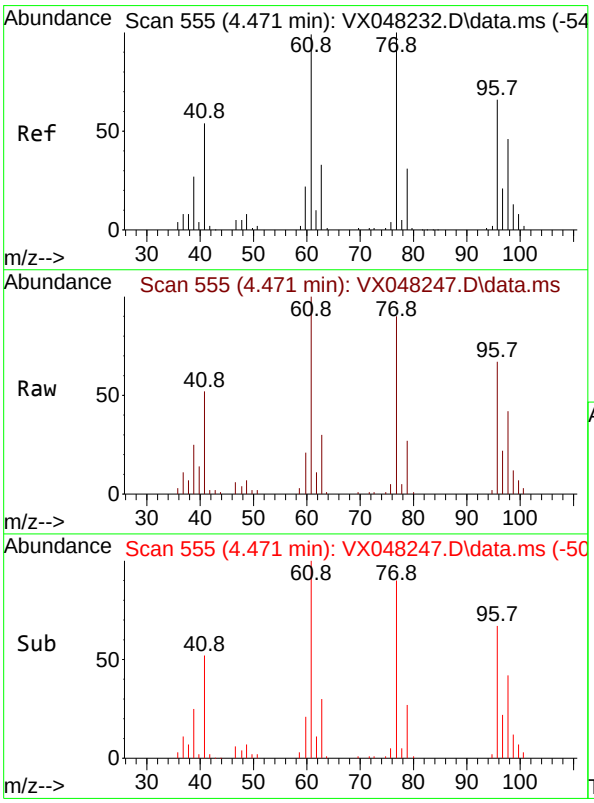
Ion	Ratio	Lower	Upper
43	100		
72	23.9	19.9	29.9

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

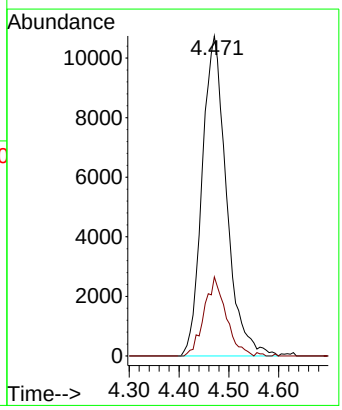


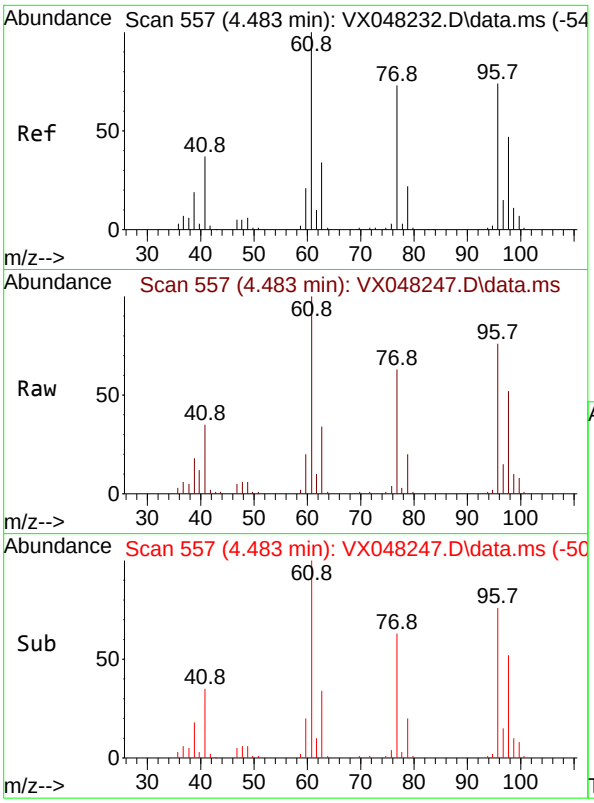


#26
2,2-Dichloropropane
Concen: 16.724 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 77 Resp: 36422

Ion	Ratio	Lower	Upper
77	100		
97	22.2	11.1	33.3





#27
cis-1,2-Dichloroethene
Concen: 19.938 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

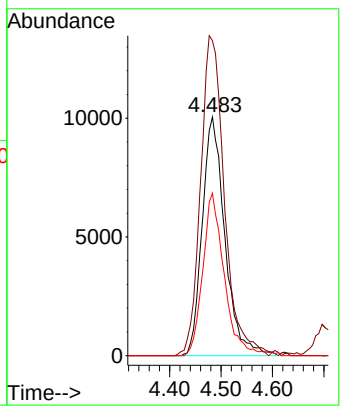
Tgt Ion: 96 Resp: 3080

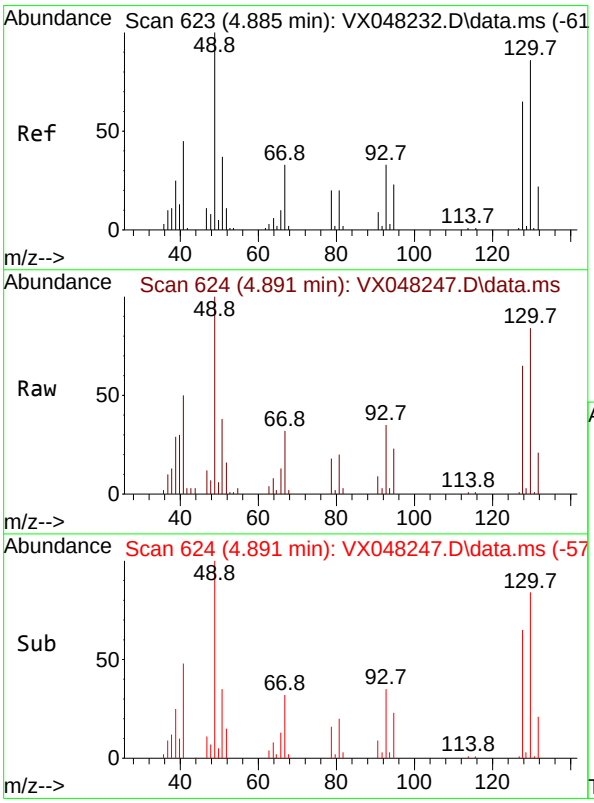
Ion	Ratio	Lower	Upper
96	100		
61	141.4	0.0	294.2
98	64.1	0.0	128.4

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

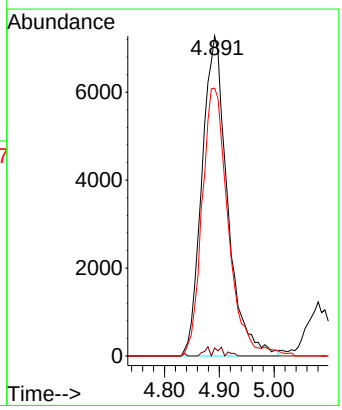


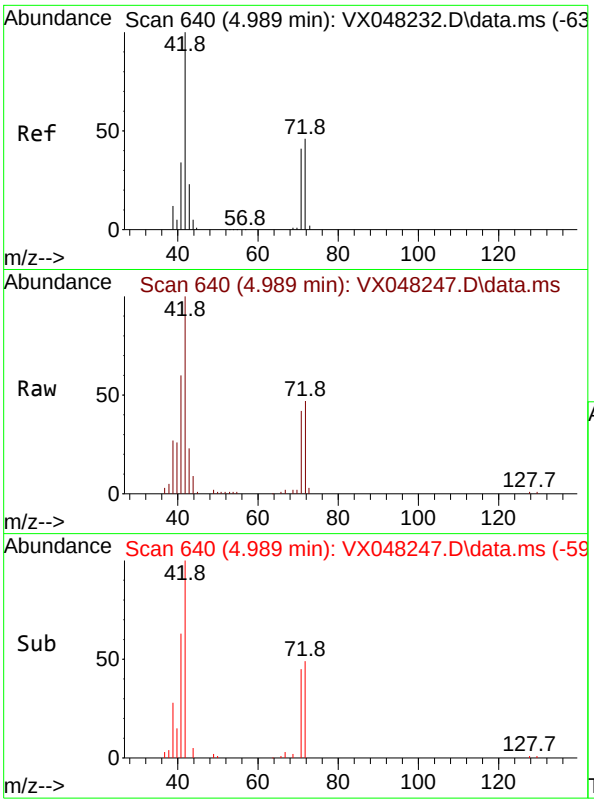


#28
Bromochloromethane
Concen: 23.567 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 49 Resp: 23578

Ion	Ratio	Lower	Upper
49	100		
129	0.6	0.0	4.4
130	85.5	59.3	88.9





#29
Tetrahydrofuran
Concen: 101.247 ug/l
RT: 4.989 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

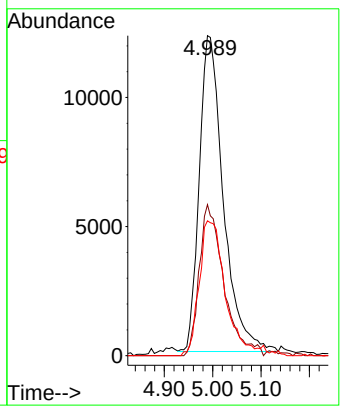
Tgt Ion: 42 Resp: 4237

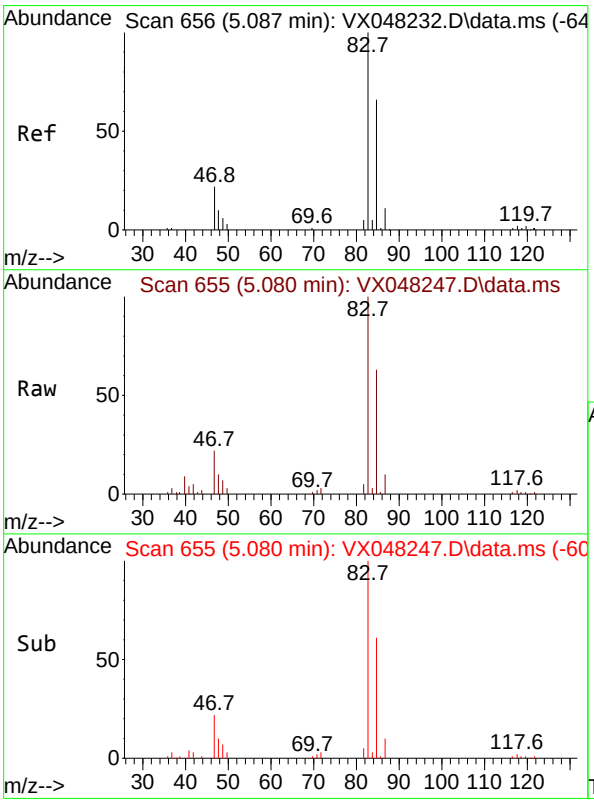
Ion	Ratio	Lower	Upper
42	100		
72	48.4	35.3	52.9
71	45.9	32.2	48.4

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

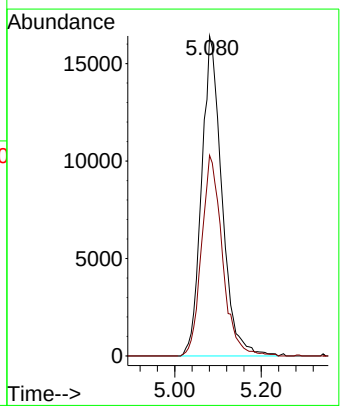


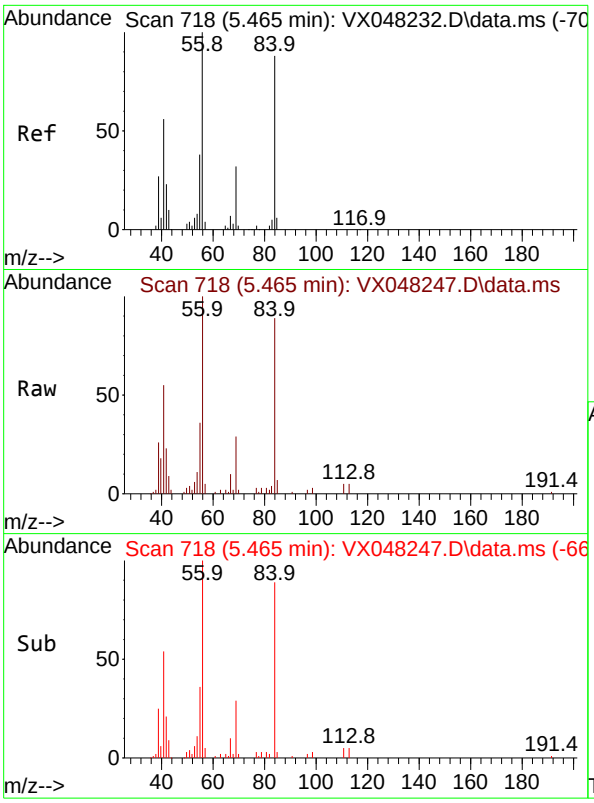


#30
Chloroform
Concen: 20.734 ug/l
RT: 5.080 min Scan# 655
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 83 Resp: 53451

Ion	Ratio	Lower	Upper
83	100		
85	63.8	50.1	75.1





#31
Cyclohexane
Concen: 18.086 ug/l
RT: 5.465 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

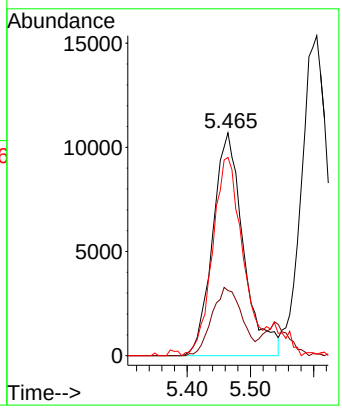
Tgt Ion: 56 Resp: 3613

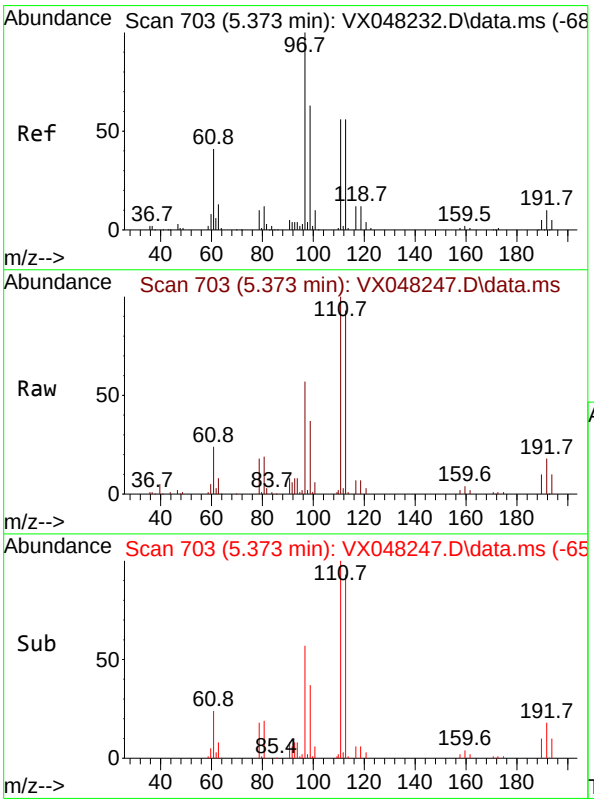
Ion	Ratio	Lower	Upper
56	100		
69	29.2	23.0	34.6
84	86.9	64.6	97.0

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

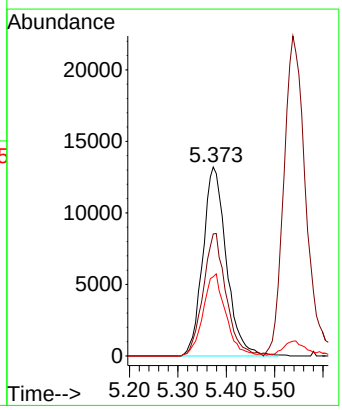


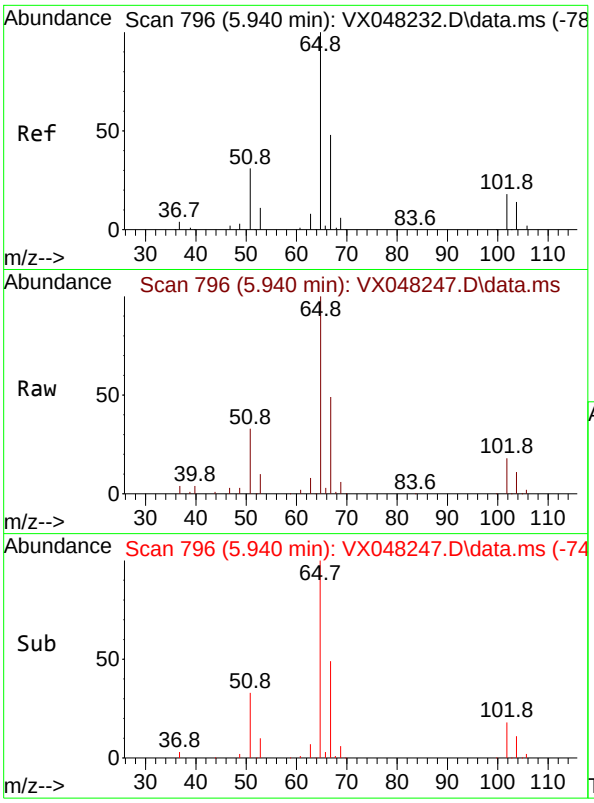


#32
1,1,1-Trichloroethane
Concen: 18.771 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 97 Resp: 44597

Ion	Ratio	Lower	Upper
97	100		
99	63.1	51.7	77.5
61	42.1	34.8	52.2

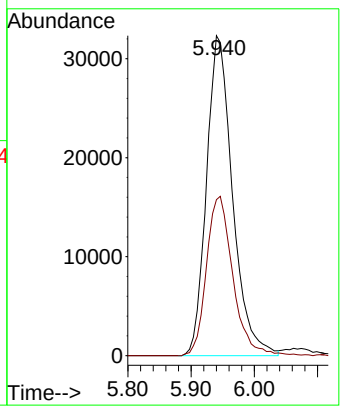




#33
1,2-Dichloroethane-d4
Concen: 57.512 ug/l
RT: 5.940 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 65 Resp: 9255

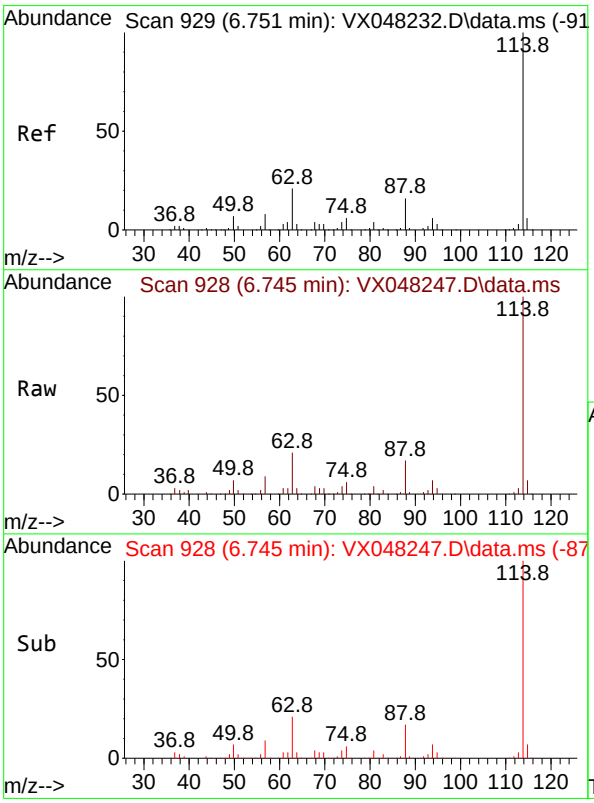
Ion	Ratio	Lower	Upper
65	100		
67	50.6	0.0	105.0



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

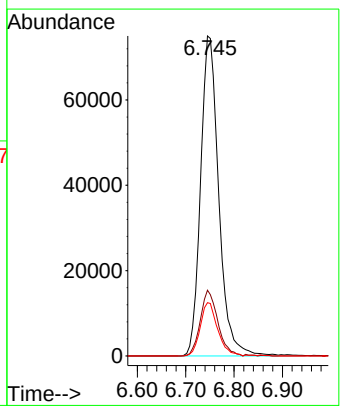
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

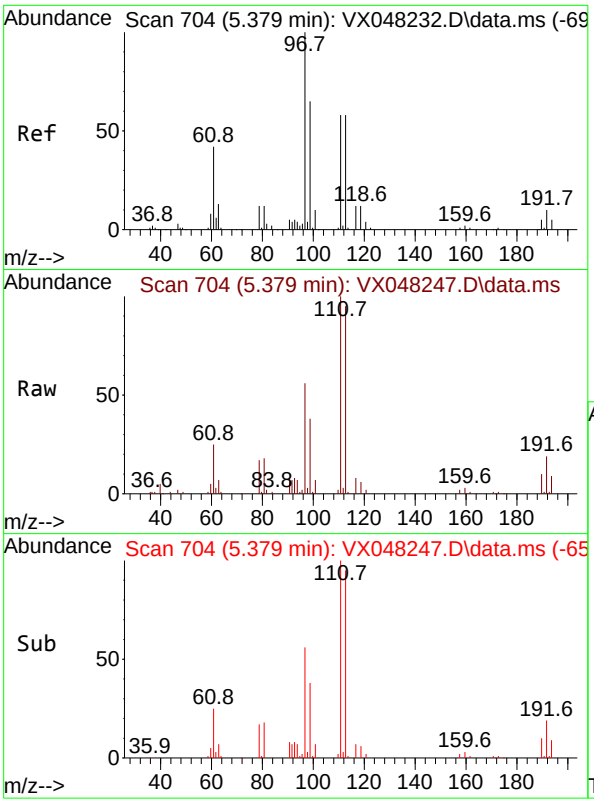


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:114 Resp: 195841

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	43.2
88	16.7	0.0	33.6

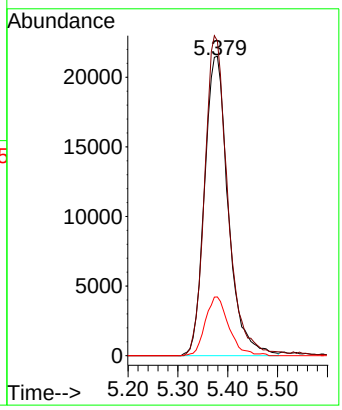




#35
Dibromofluoromethane
Concen: 53.212 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:113 Resp: 7114

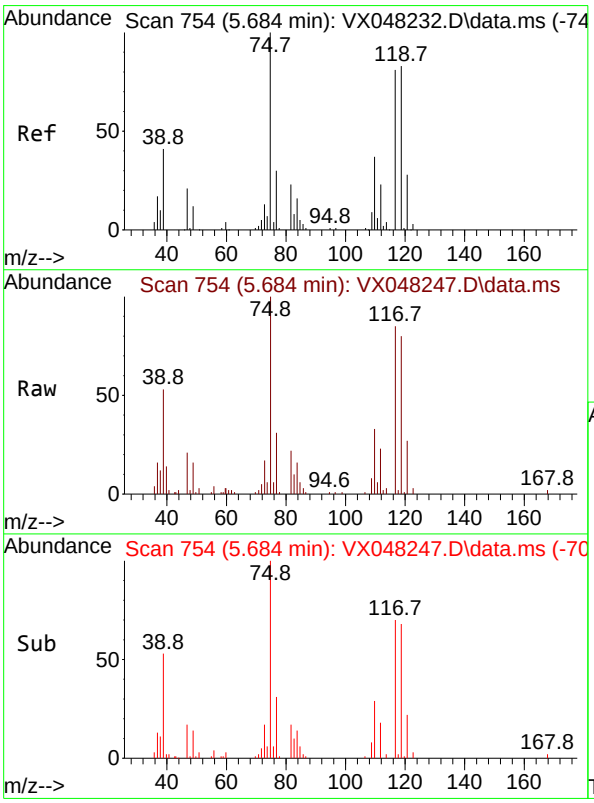
Ion	Ratio	Lower	Upper
113	100		
111	104.0	82.2	123.4
192	19.4	15.1	22.7



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

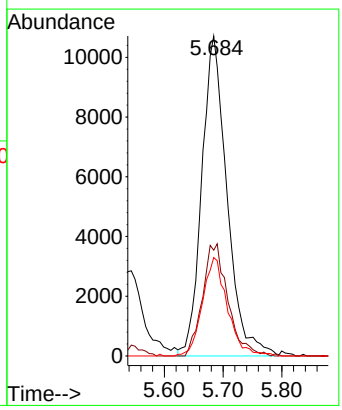
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

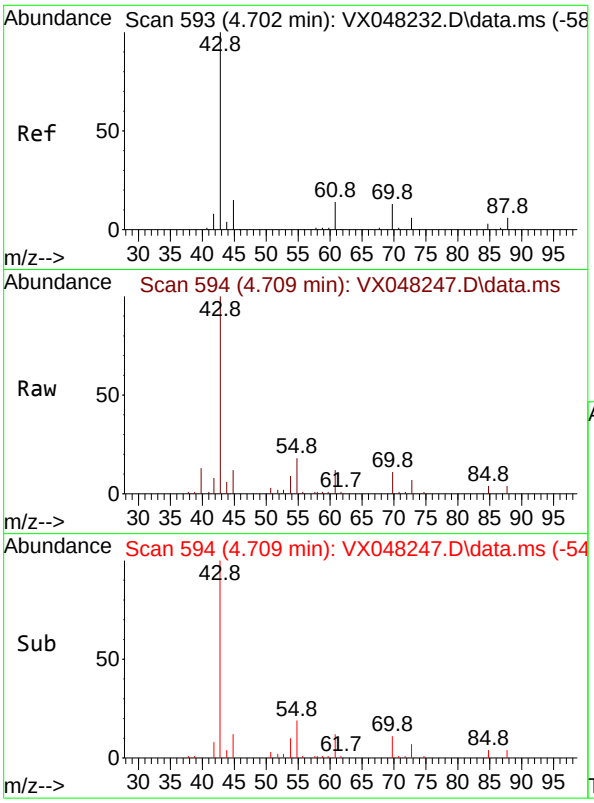


#36
1,1-Dichloropropene
Concen: 16.845 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 75 Resp: 32010

Ion	Ratio	Lower	Upper
75	100		
110	35.3	17.7	53.1
77	30.5	24.3	36.5

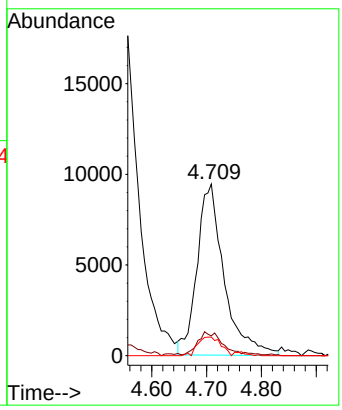




#37
Ethyl Acetate
Concen: 20.506 ug/l
RT: 4.709 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 43 Resp: 3229

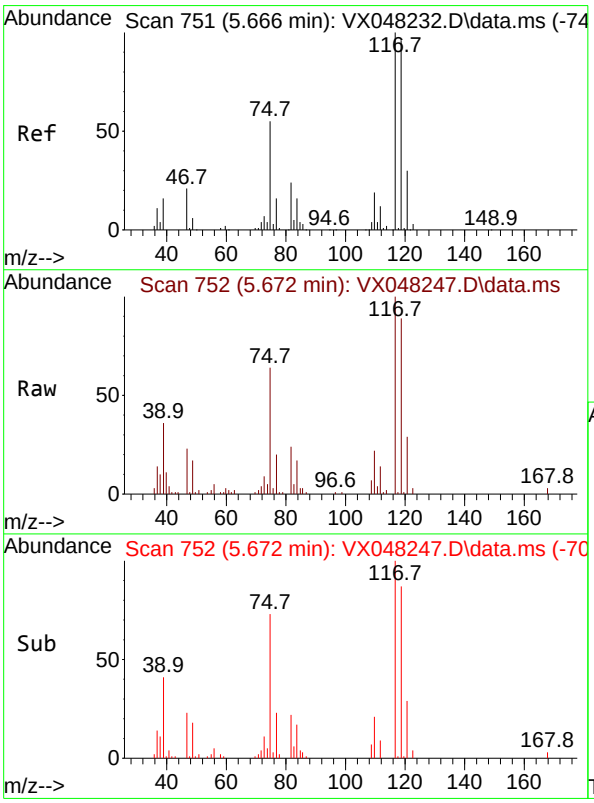
Ion	Ratio	Lower	Upper
43	100		
61	12.0	10.6	15.8
70	9.3	7.8	11.6



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

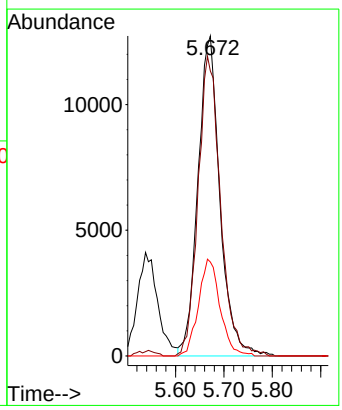
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

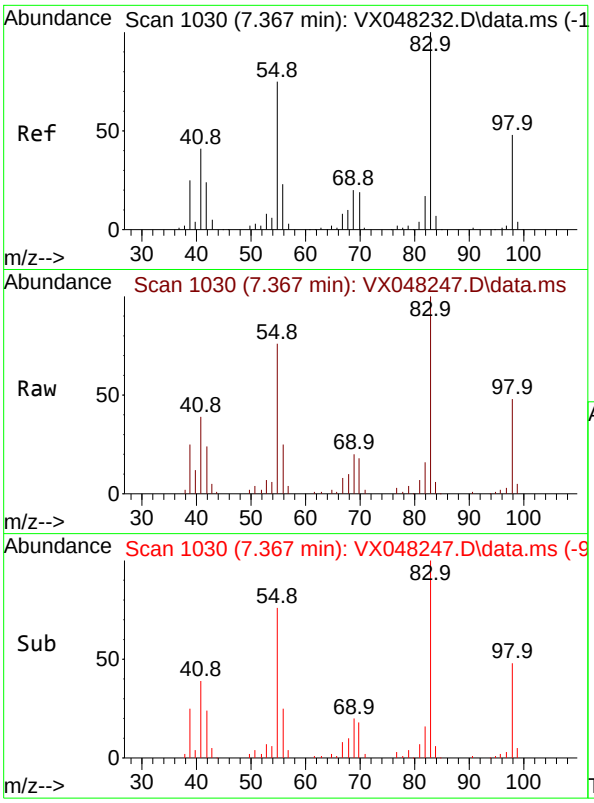


#38
Carbon Tetrachloride
Concen: 17.139 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:117 Resp: 40183

Ion	Ratio	Lower	Upper
117	100		
119	89.1	77.2	115.8
121	29.3	24.8	37.2





#39
Methylcyclohexane
Concen: 16.396 ug/l
RT: 7.367 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

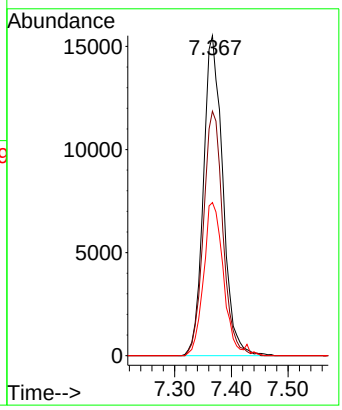
Tgt Ion: 83 Resp: 3679

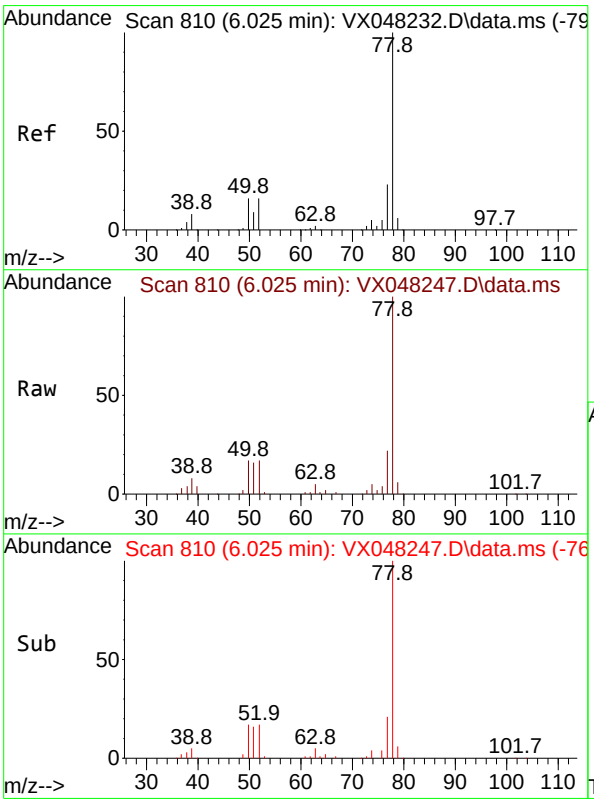
Ion	Ratio	Lower	Upper
83	100		
55	76.4	66.2	99.2
98	47.8	38.9	58.3

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

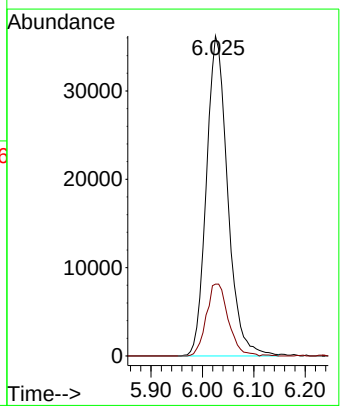


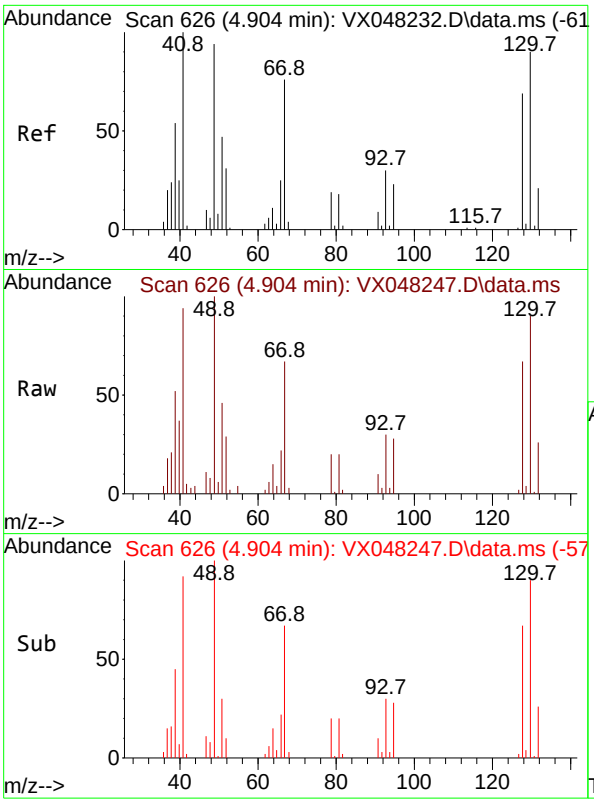


#40
Benzene
Concen: 18.880 ug/l
RT: 6.025 min Scan# 810
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 78 Resp: 104164

Ion	Ratio	Lower	Upper
78	100		
77	22.5	19.3	28.9

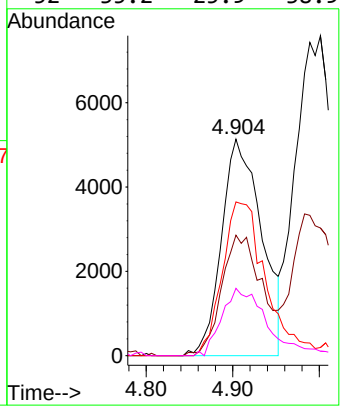




#41
Methacrylonitrile
Concen: 19.993 ug/l
RT: 4.904 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 41 Resp: 1653

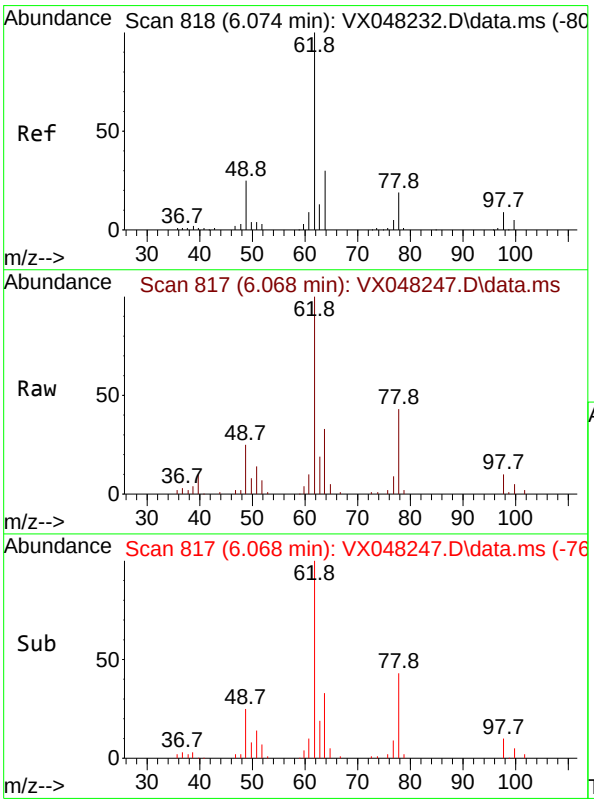
Ion	Ratio	Lower	Upper
41	100		
39	53.8	44.0	66.0
67	77.6	58.7	88.1
52	35.2	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

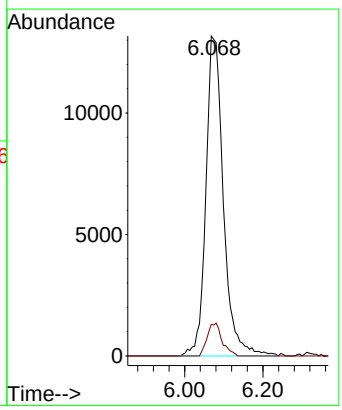
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

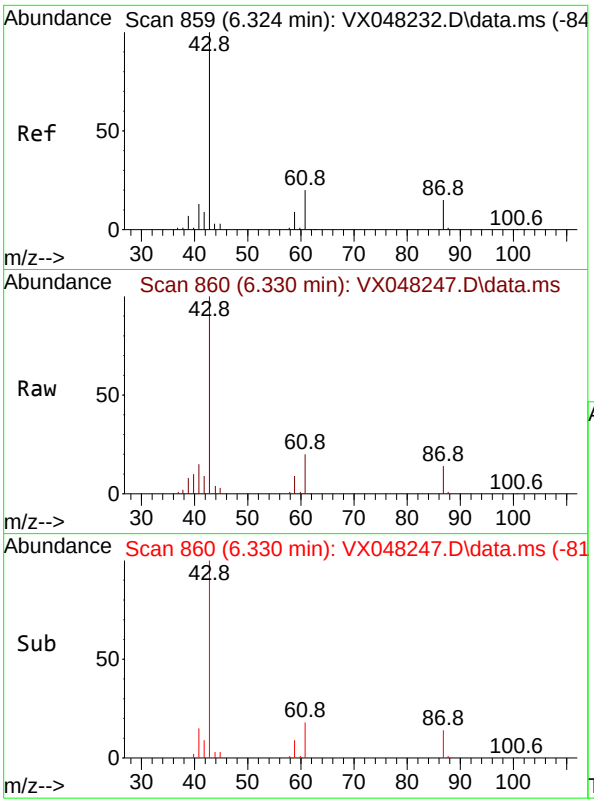


#42
1,2-Dichloroethane
Concen: 20.051 ug/l
RT: 6.068 min Scan# 817
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 62 Resp: 40822

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.2

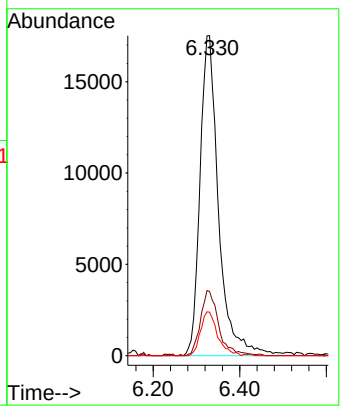




#43
Isopropyl Acetate
Concen: 20.109 ug/l
RT: 6.330 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 43 Resp: 5202

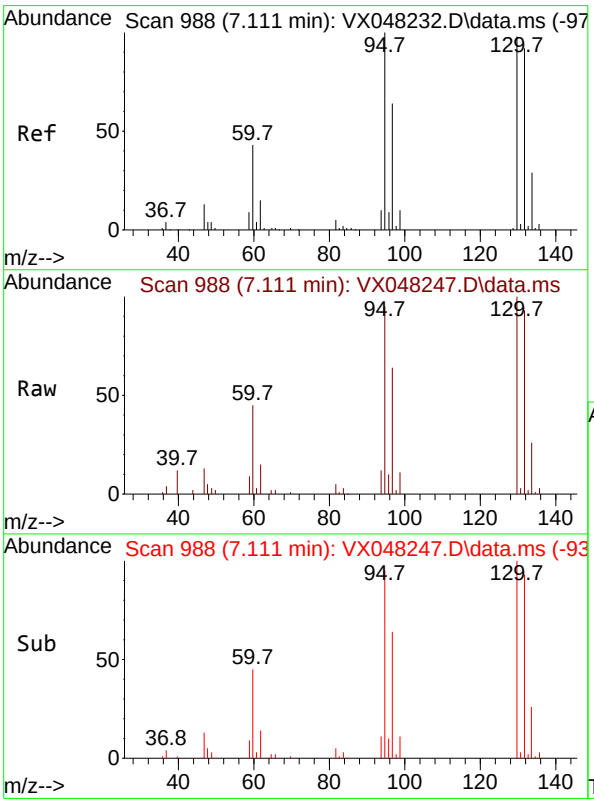
Ion	Ratio	Lower	Upper
43	100		
61	20.1	14.9	22.3
87	12.6	9.4	14.2



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

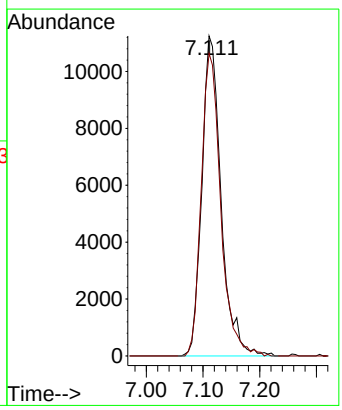
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

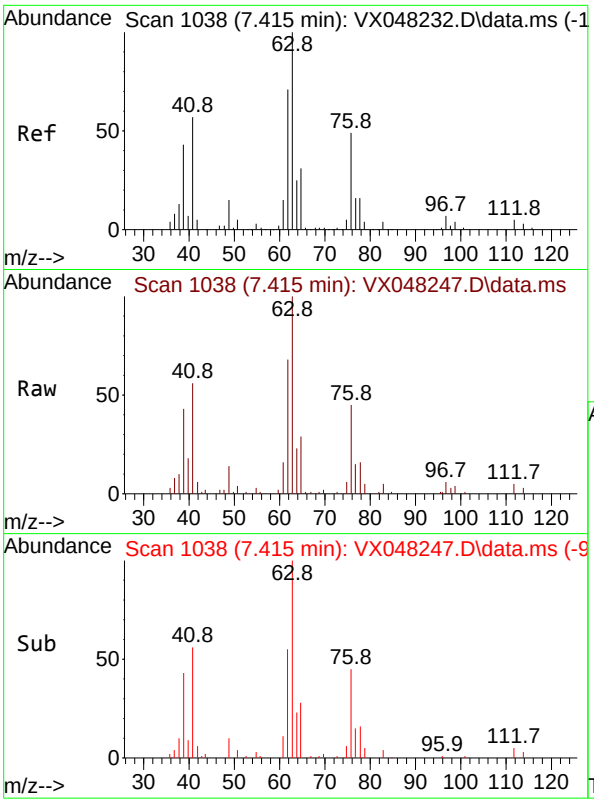


#44
Trichloroethene
Concen: 18.188 ug/l
RT: 7.111 min Scan# 988
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:130 Resp: 26497

Ion	Ratio	Lower	Upper
130	100		
95	94.6	0.0	200.6





#45
1,2-Dichloropropane
Concen: 20.350 ug/l
RT: 7.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

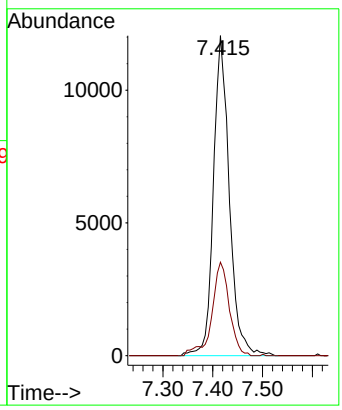
Tgt Ion: 63 Resp: 2669

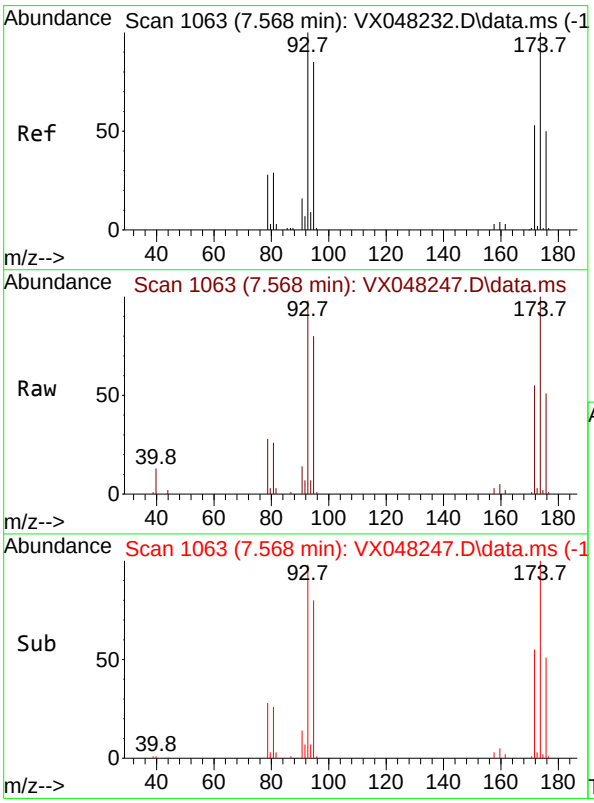
Ion	Ratio	Lower	Upper
63	100		
65	29.2	24.1	36.1

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

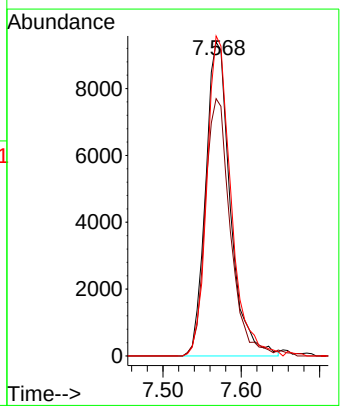


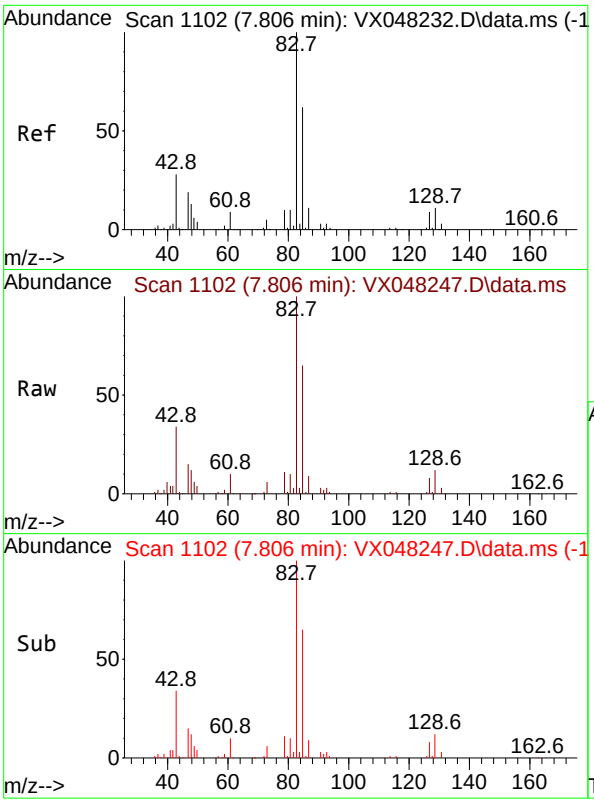


#46
Dibromomethane
Concen: 20.029 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 93 Resp: 20469

Ion	Ratio	Lower	Upper
93	100		
95	83.3	65.9	98.9
174	99.4	71.7	107.5





#47
Bromodichloromethane
Concen: 19.832 ug/l
RT: 7.806 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

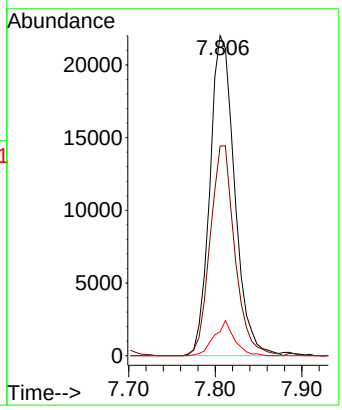
Tgt Ion: 83 Resp: 4376

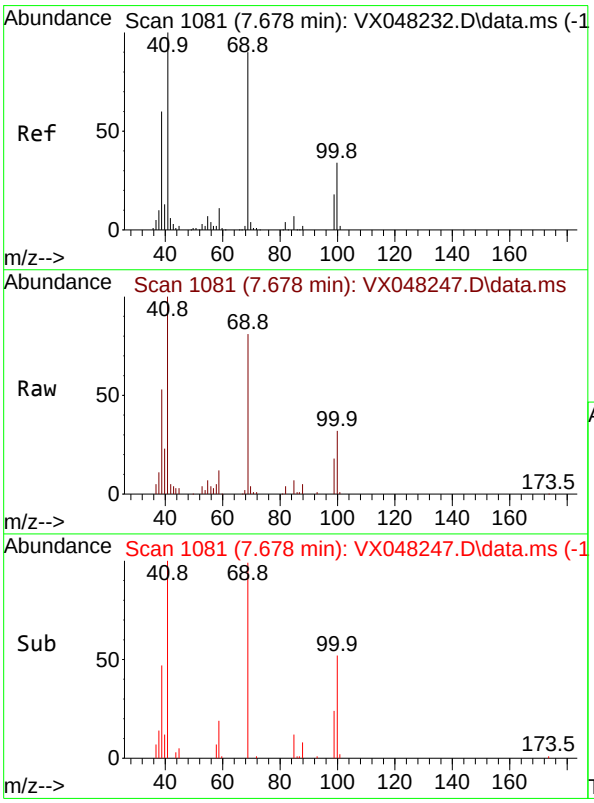
Ion	Ratio	Lower	Upper
83	100		
85	65.5	52.2	78.4
127	7.5	7.3	10.9

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

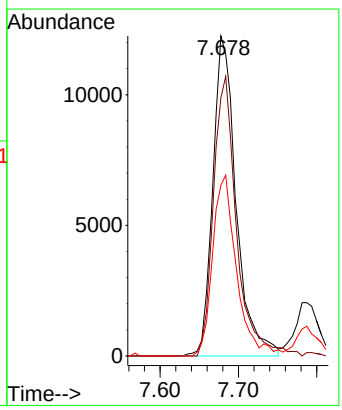


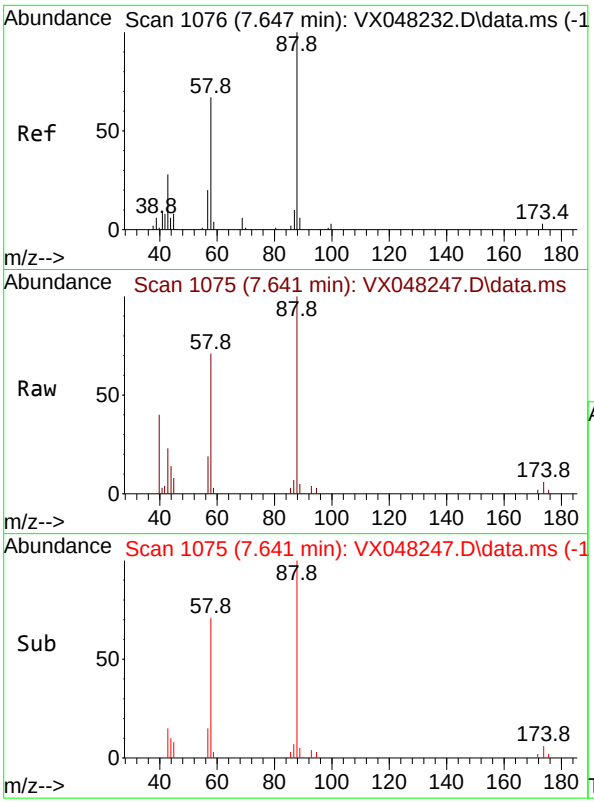


#48
Methyl methacrylate
Concen: 19.392 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 41 Resp: 25318

Ion	Ratio	Lower	Upper
41	100		
69	86.6	63.4	95.0
39	58.0	47.1	70.7

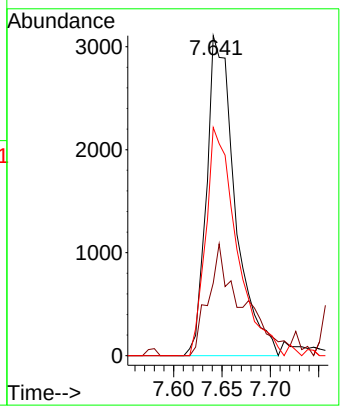




#49
1,4-Dioxane
Concen: 370.238 ug/l
RT: 7.641 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 88 Resp: 638

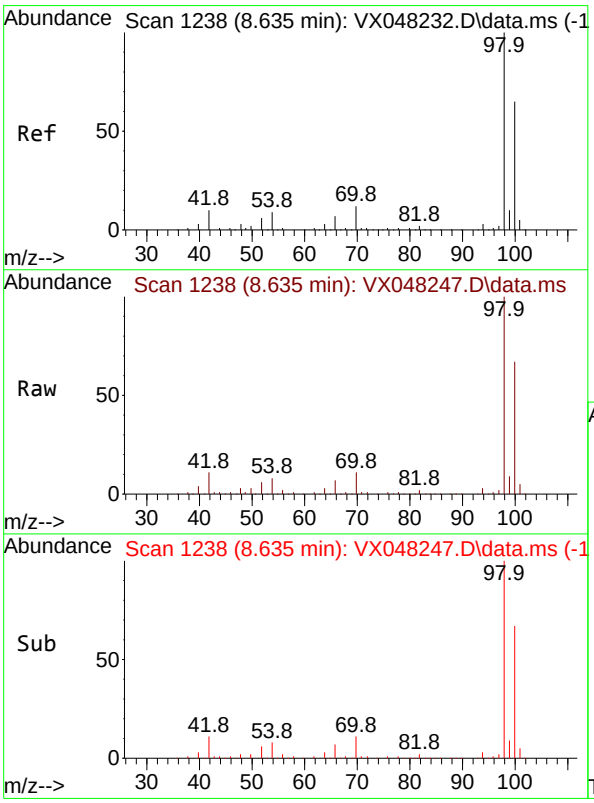
Ion	Ratio	Lower	Upper
88	100		
43	41.9	35.0	52.4
58	77.2	61.9	92.9



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

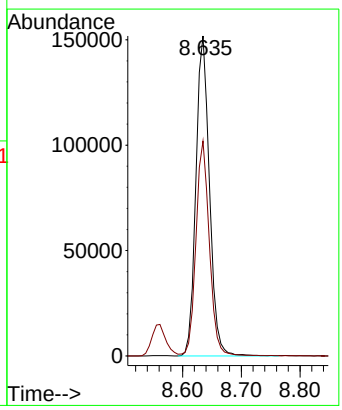
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

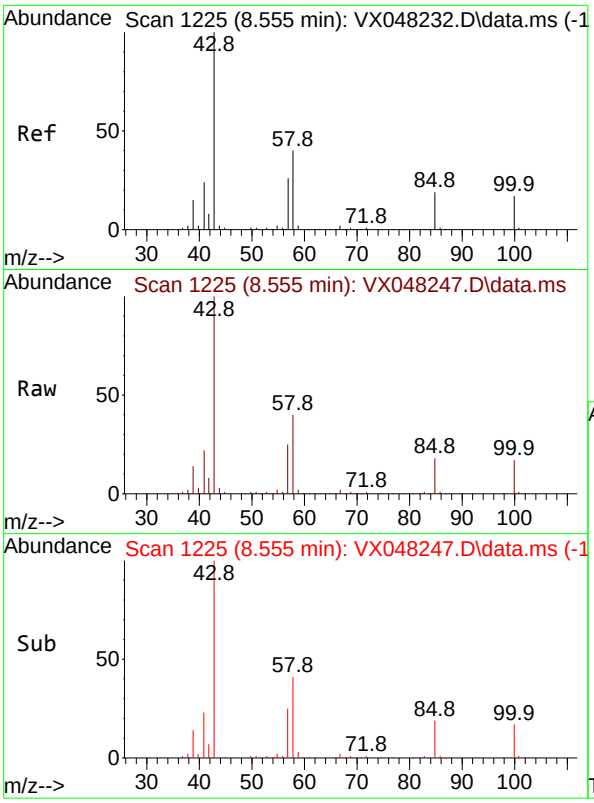


#50
Toluene-d8
Concen: 51.915 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 98 Resp: 243288

Ion	Ratio	Lower	Upper
98	100		
100	66.1	53.0	79.4





#51
4-Methyl-2-Pentanone
Concen: 102.812 ug/l
RT: 8.555 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

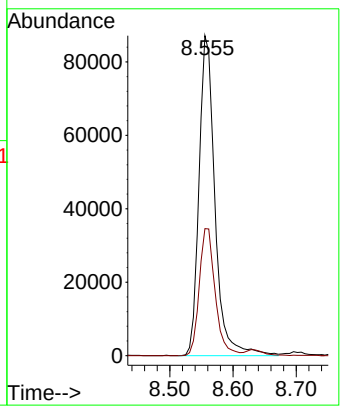
Tgt Ion: 43 Resp: 15337

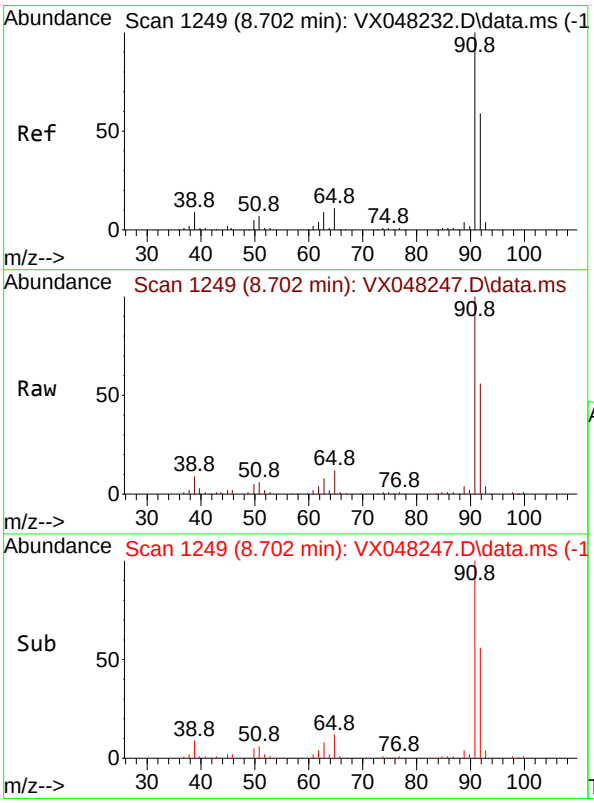
Ion	Ratio	Lower	Upper
43	100		
58	39.6	29.5	44.3

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

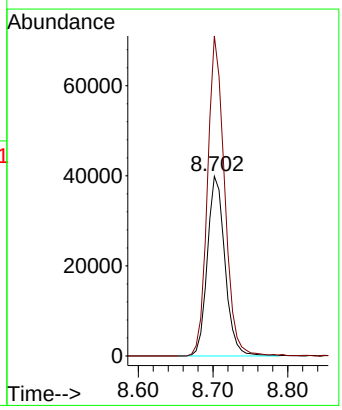


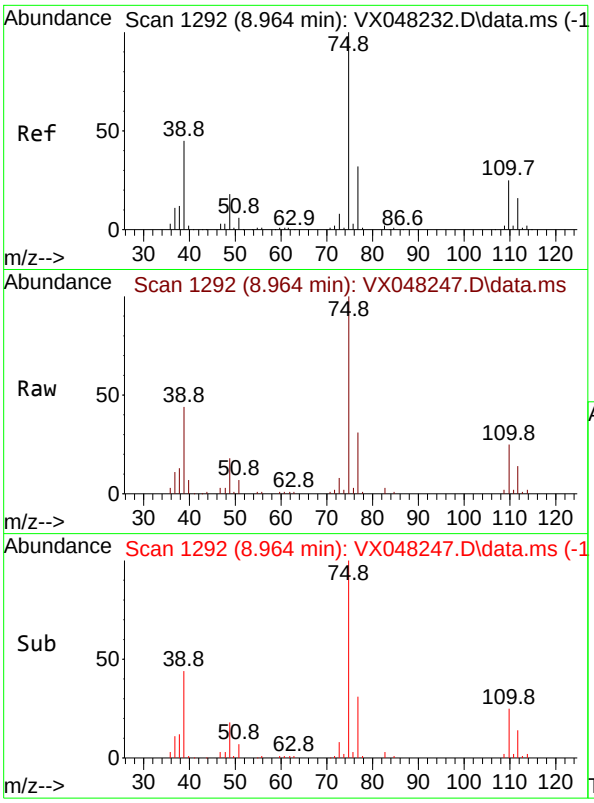


#52
Toluene
Concen: 18.650 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 92 Resp: 65370

Ion	Ratio	Lower	Upper
92	100		
91	172.3	136.1	204.1





#53
t-1,3-Dichloropropene
Concen: 19.900 ug/l
RT: 8.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

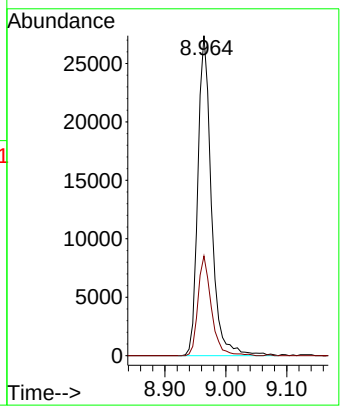
Tgt Ion: 75 Resp: 4231

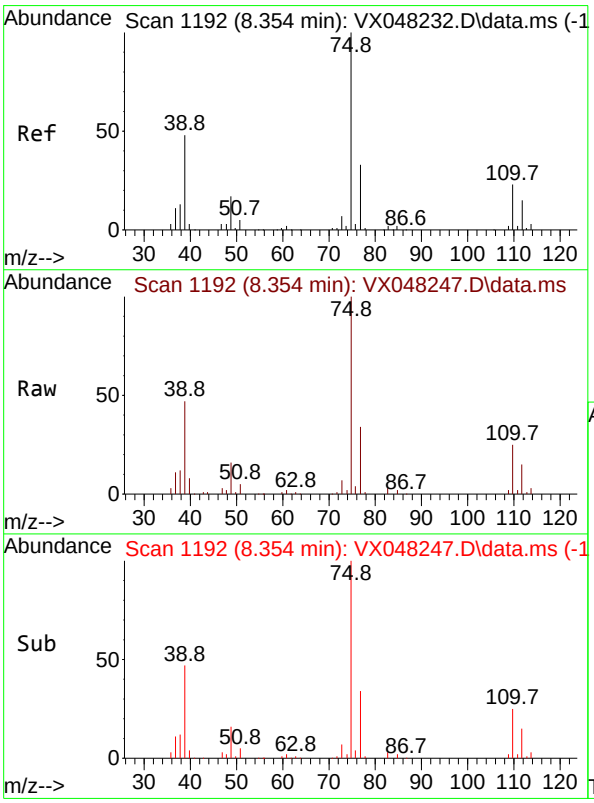
Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.0	37.6

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

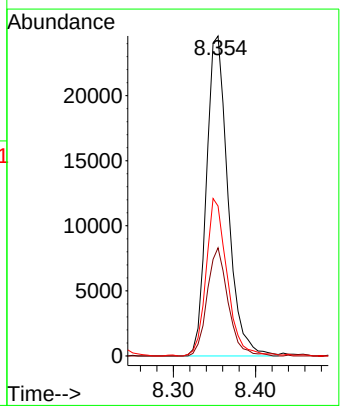


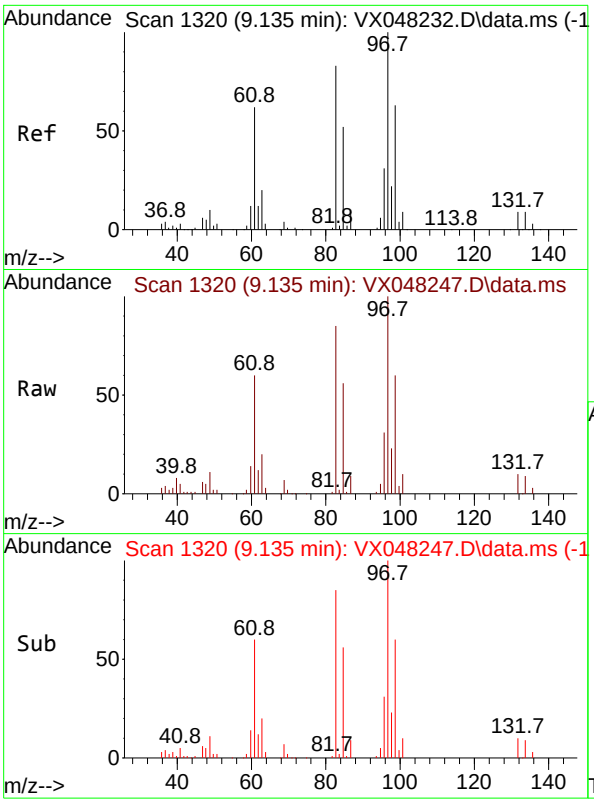


#54
cis-1,3-Dichloropropene
Concen: 19.362 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 75 Resp: 44419

Ion	Ratio	Lower	Upper
75	100		
77	33.8	24.9	37.3
39	41.6	42.6	64.0#

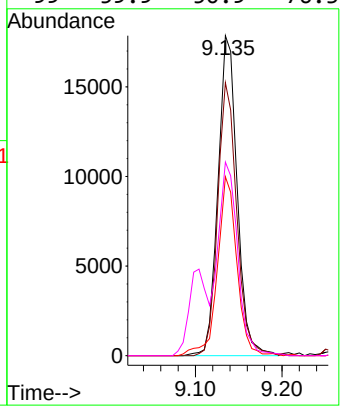




#55
1,1,2-Trichloroethane
Concen: 21.083 ug/l
RT: 9.135 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 97 Resp: 2748

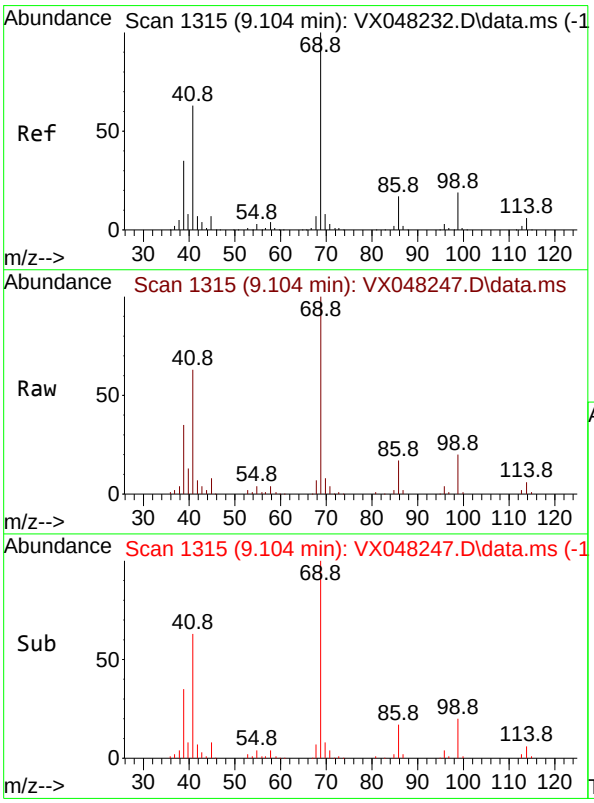
Ion	Ratio	Lower	Upper
97	100		
83	87.3	70.6	105.8
85	57.3	45.0	67.6
99	59.9	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

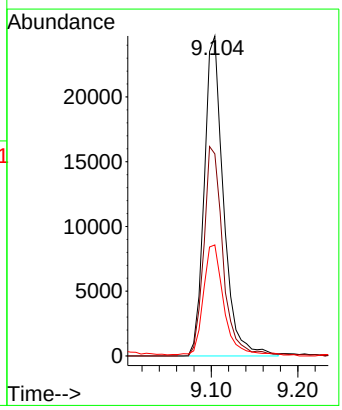
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

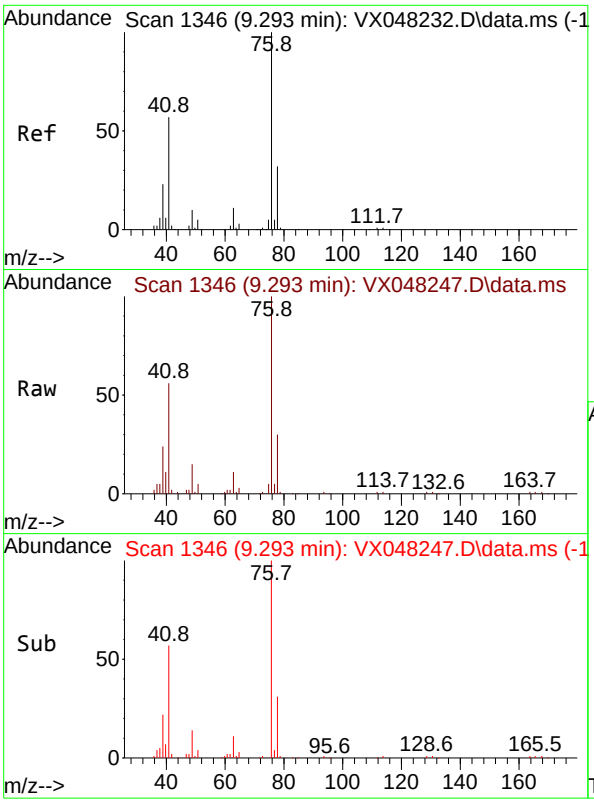


#56
Ethyl methacrylate
Concen: 19.978 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 69 Resp: 38089

Ion	Ratio	Lower	Upper
69	100		
41	65.9	56.0	84.0
39	37.8	31.6	47.4





#57
1,3-Dichloropropane
Concen: 20.726 ug/l
RT: 9.293 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

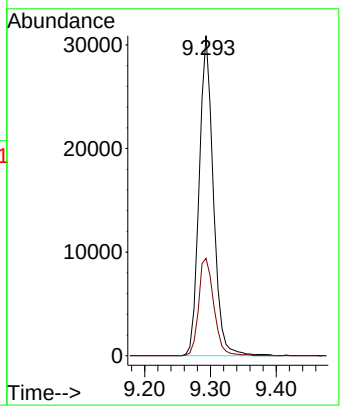
Tgt Ion: 76 Resp: 4614

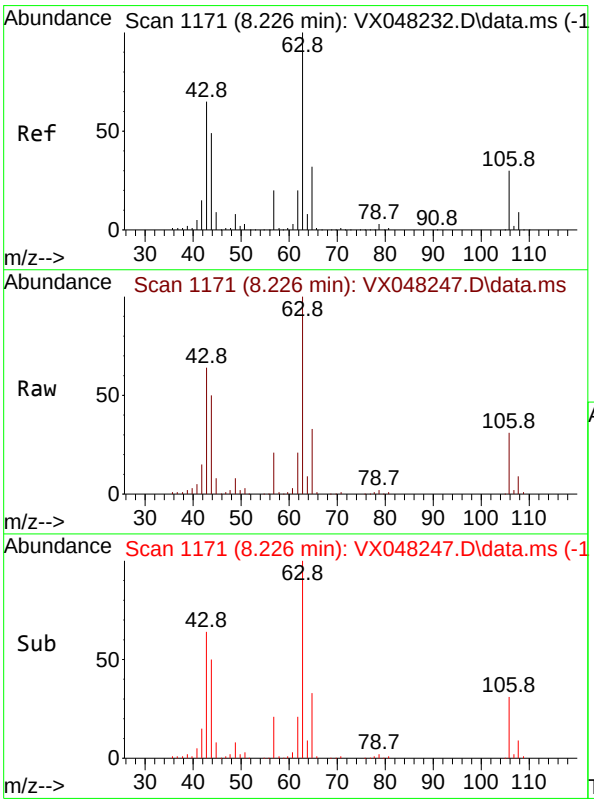
Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.4	38.0

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

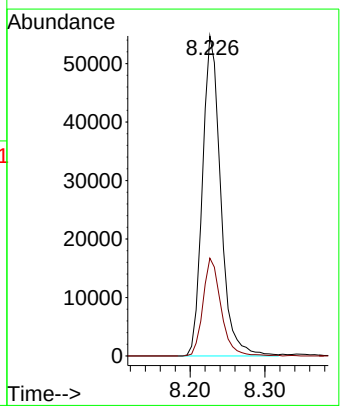


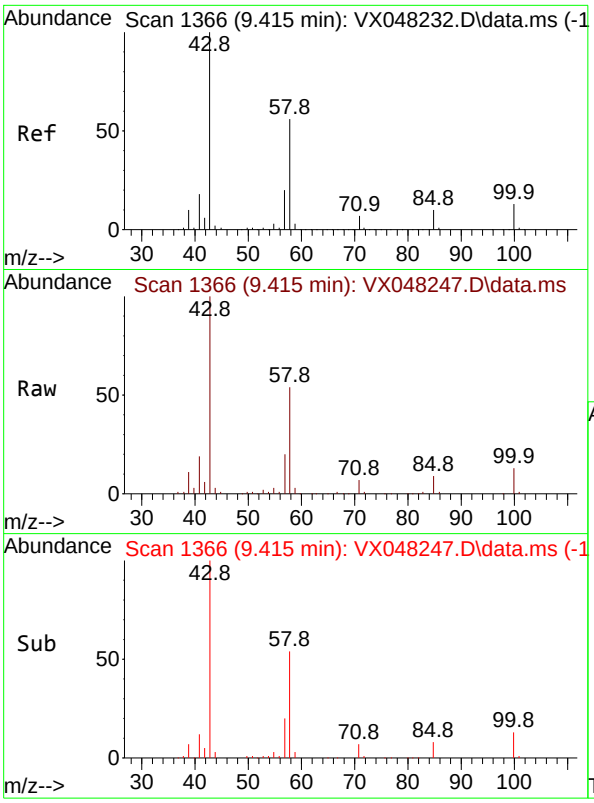


#58
2-Chloroethyl Vinyl ether
Concen: 91.719 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 63 Resp: 92914

Ion	Ratio	Lower	Upper
63	100		
106	30.1	22.2	33.2





#59
2-Hexanone
Concen: 104.075 ug/l
RT: 9.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

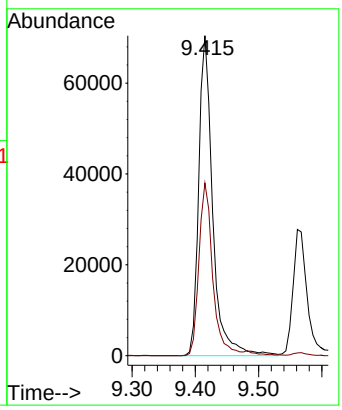
Tgt Ion: 43 Resp: 10825

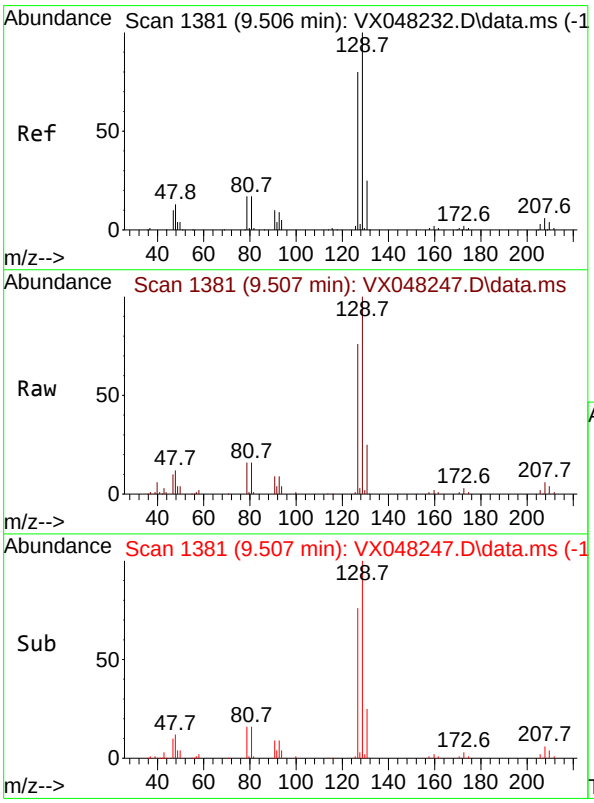
Ion	Ratio	Lower	Upper
43	100		
58	54.9	26.3	78.8

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

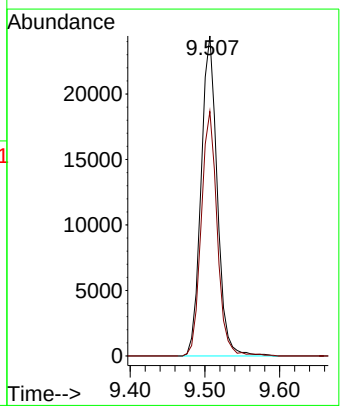


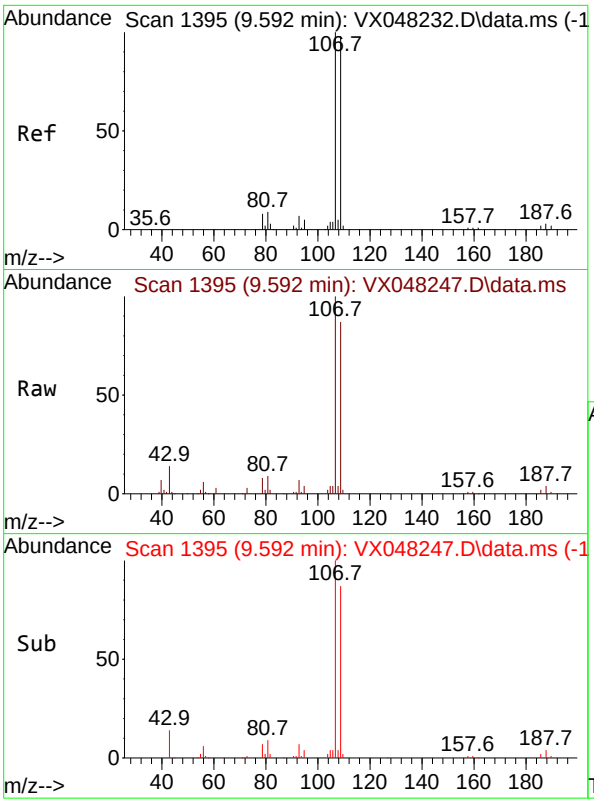


#60
Dibromochloromethane
Concen: 20.894 ug/l
RT: 9.507 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:129 Resp: 36604

Ion	Ratio	Lower	Upper
129	100		
127	75.8	38.6	115.7

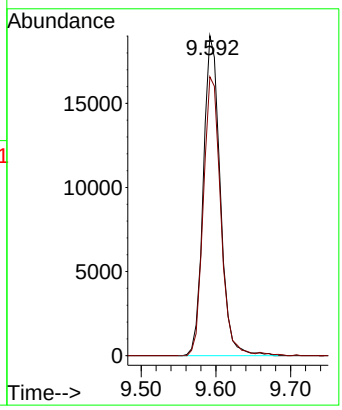




#61
1,2-Dibromoethane
Concen: 21.420 ug/l
RT: 9.592 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:107 Resp: 2976

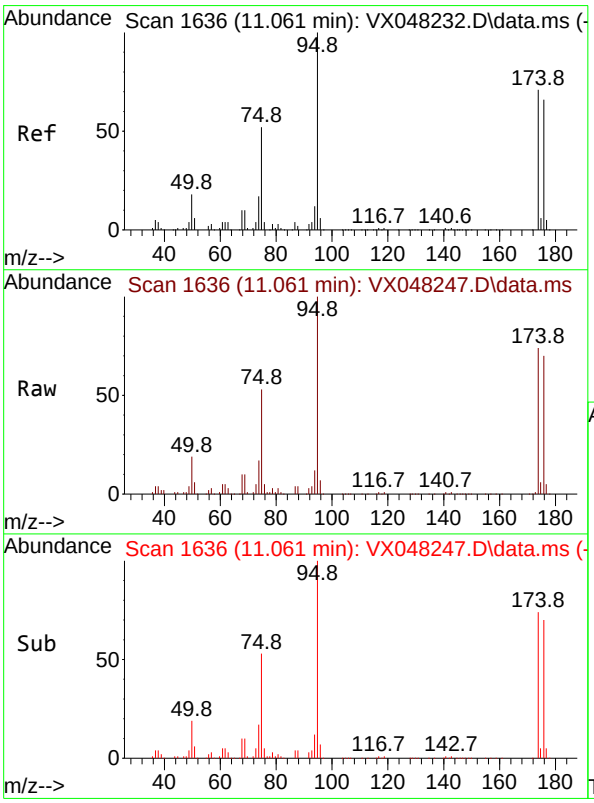
Ion	Ratio	Lower	Upper
107	100		
109	89.3	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

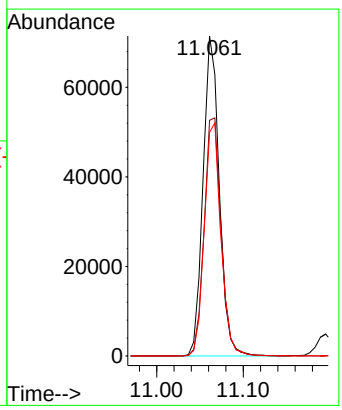
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

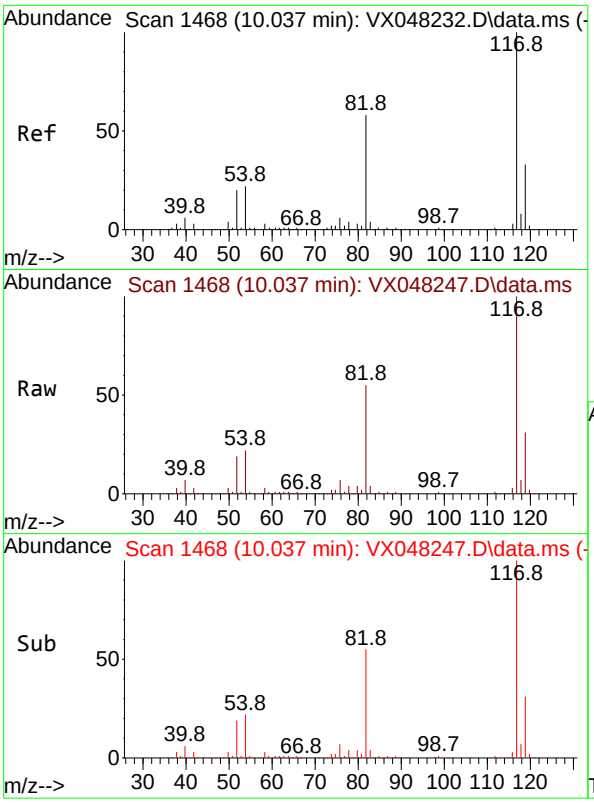


#62
4-Bromofluorobenzene
Concen: 52.139 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 95 Resp: 92954

Ion	Ratio	Lower	Upper
95	100		
174	78.2	0.0	147.8
176	74.5	0.0	142.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

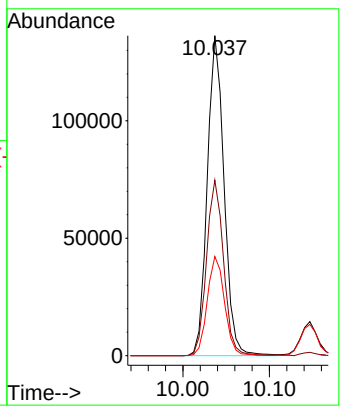
Tgt Ion:117 Resp: 18356

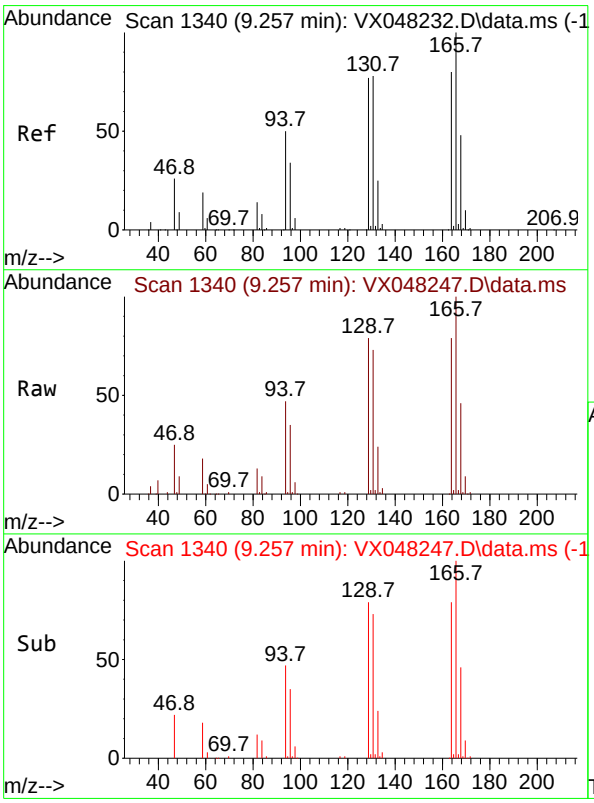
Ion	Ratio	Lower	Upper
117	100		
82	54.9	46.5	69.7
119	31.0	25.9	38.9

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

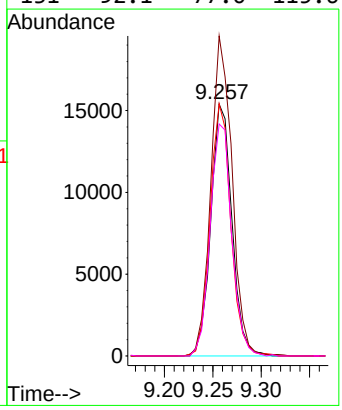


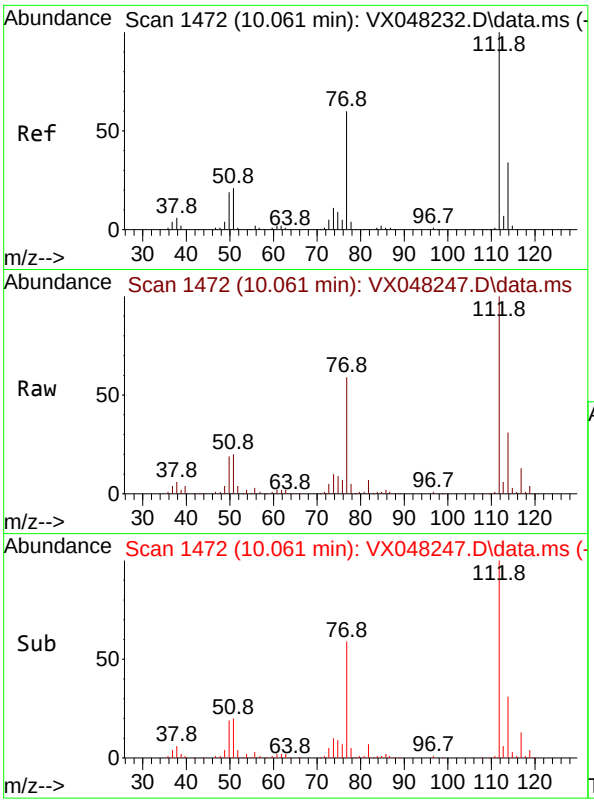


#64
Tetrachloroethene
Concen: 17.018 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:164 Resp: 23320

Ion	Ratio	Lower	Upper
164	100		
166	127.0	104.5	156.7
129	100.1	81.8	122.6
131	92.1	77.0	115.6

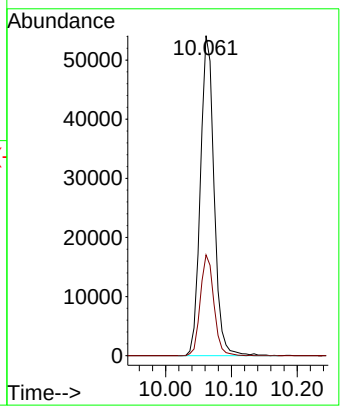




#65
Chlorobenzene
Concen: 18.971 ug/l
RT: 10.061 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:112 Resp: 7833

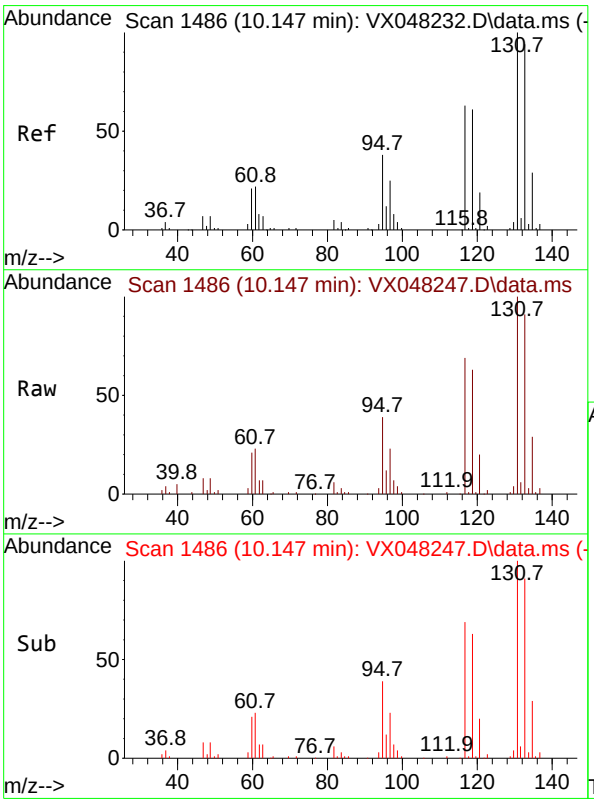
Ion	Ratio	Lower	Upper
112	100		
114	31.5	26.2	39.2



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

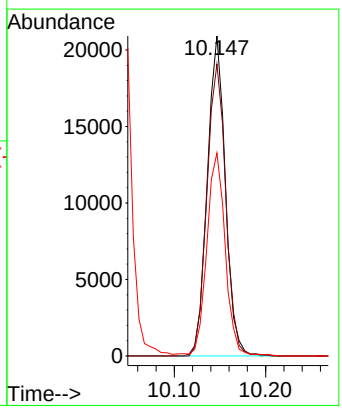
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

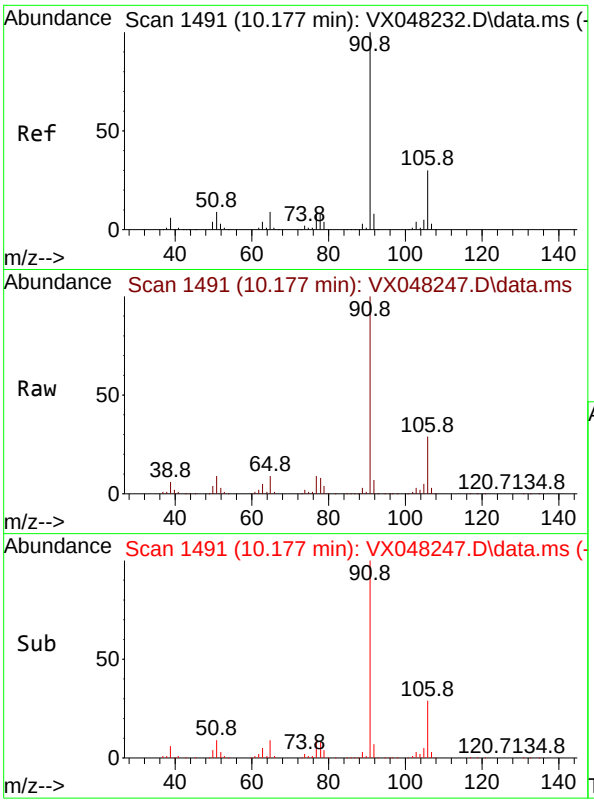


#66
1,1,1,2-Tetrachloroethane
Concen: 18.889 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:131 Resp: 28648

Ion	Ratio	Lower	Upper
131	100		
133	95.2	47.6	142.8
119	64.9	32.5	97.5





#67
Ethyl Benzene
Concen: 17.821 ug/l
RT: 10.177 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

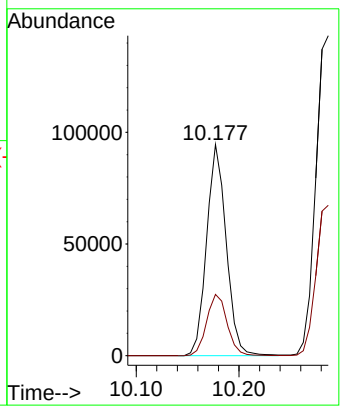
Tgt Ion: 91 Resp: 12529

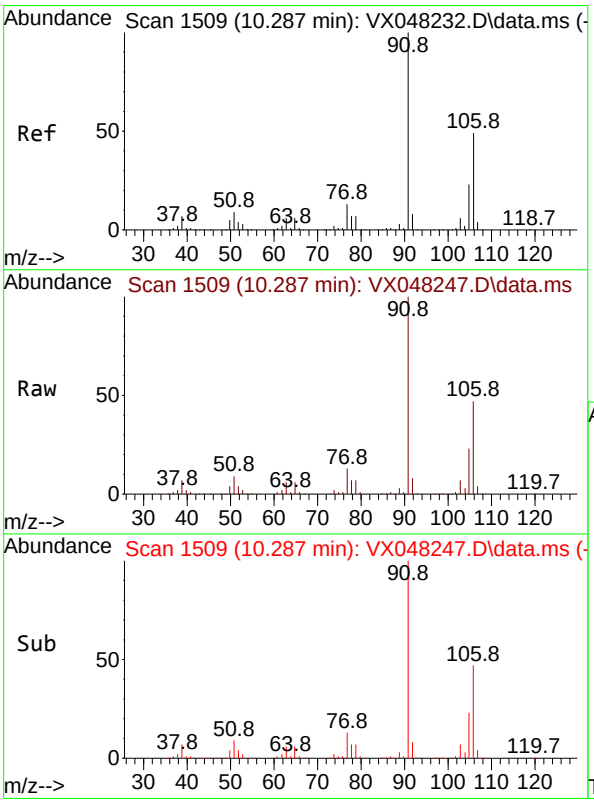
Ion	Ratio	Lower	Upper
91	100		
106	29.0	23.8	35.6

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

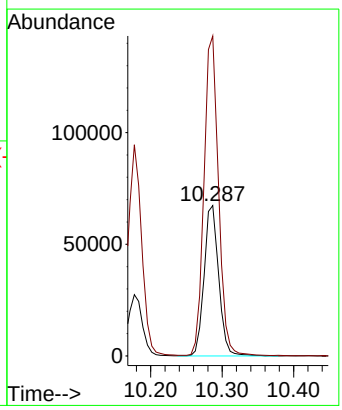


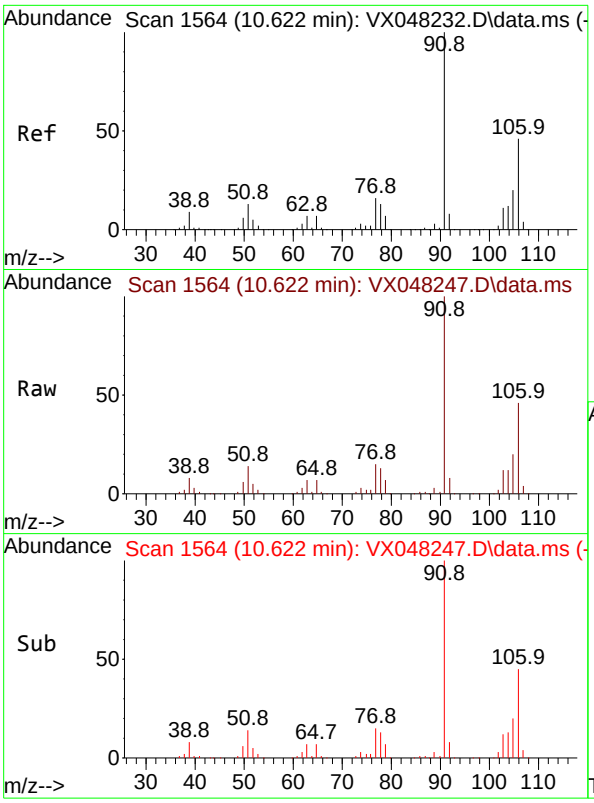


#68
m/p-Xylenes
Concen: 36.604 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:106 Resp: 95614

Ion	Ratio	Lower	Upper
106	100		
91	211.2	167.9	251.9





#69
o-Xylene
Concen: 18.374 ug/l
RT: 10.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

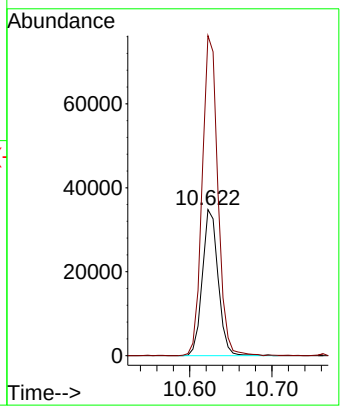
Tgt Ion:106 Resp: 4633

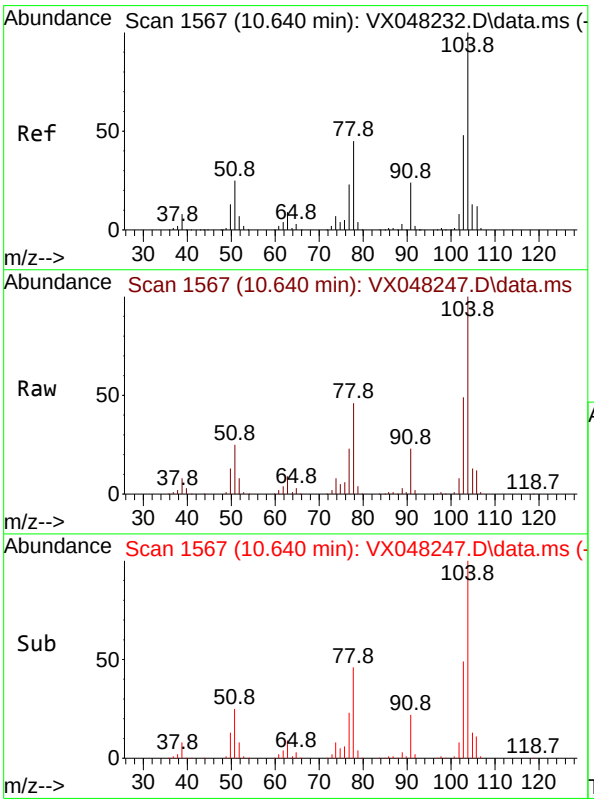
Ion	Ratio	Lower	Upper
106	100		
91	217.8	111.3	333.9

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

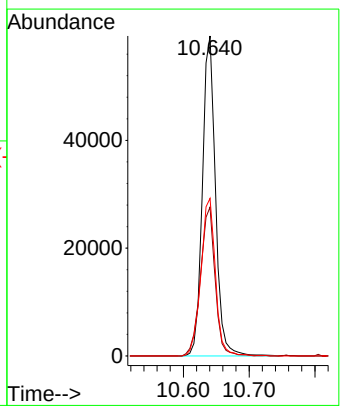


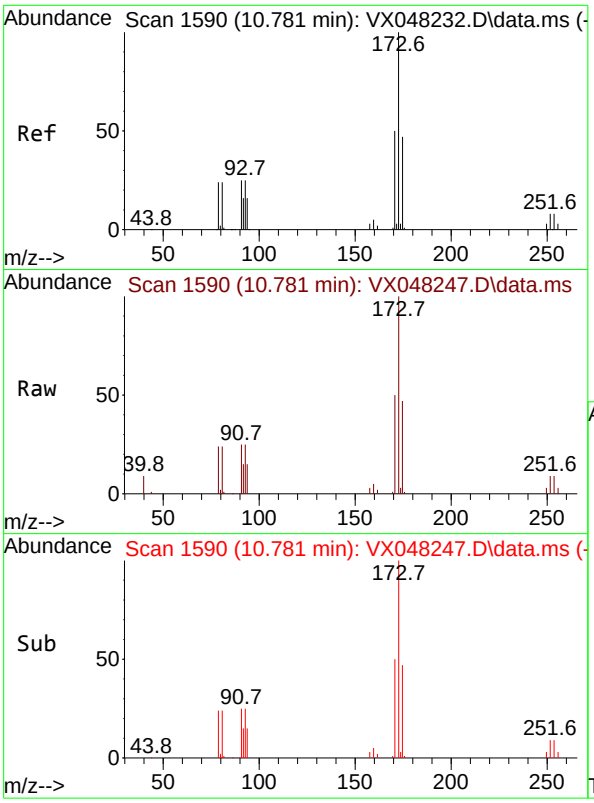


#70
Styrene
Concen: 19.141 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:104 Resp: 82194

Ion	Ratio	Lower	Upper
104	100		
78	52.1	42.2	63.4
103	54.6	43.0	64.4

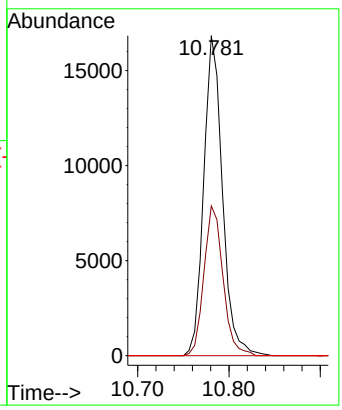




#71
Bromoform
Concen: 19.710 ug/l
RT: 10.781 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:173 Resp: 2389

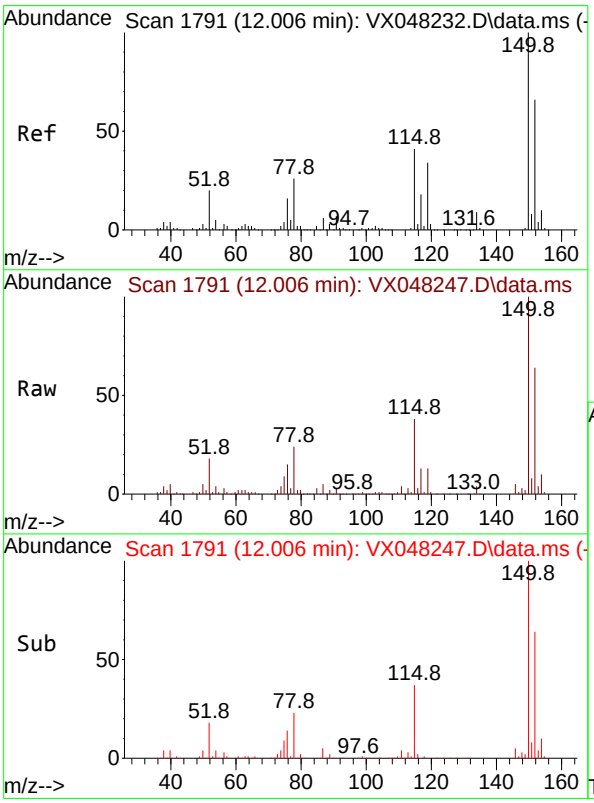
Ion	Ratio	Lower	Upper
173	100		
175	47.6	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

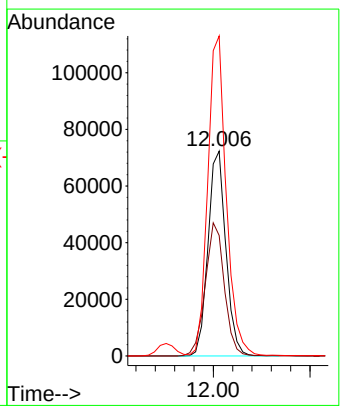
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

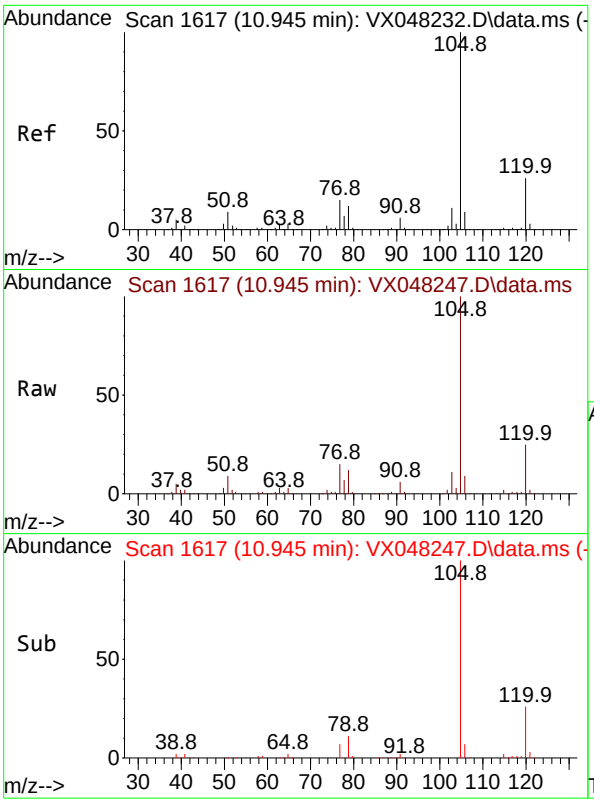


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:152 Resp: 92655

Ion	Ratio	Lower	Upper
152	100		
115	69.3	43.1	129.4
150	161.7	0.0	353.0





#73
Isopropylbenzene
Concen: 17.504 ug/l
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

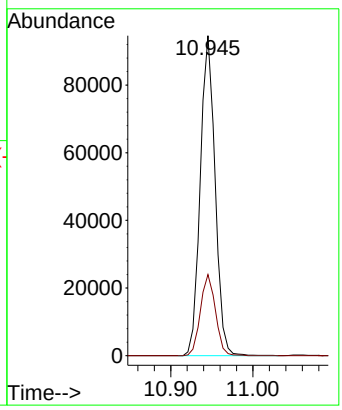
Tgt Ion:105 Resp: 11846

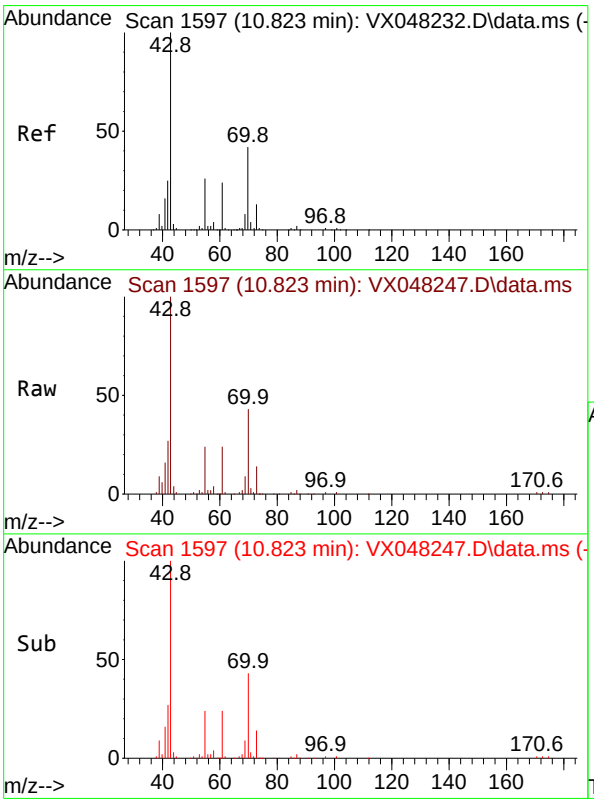
Ion	Ratio	Lower	Upper
105	100		
120	25.6	13.0	38.9

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

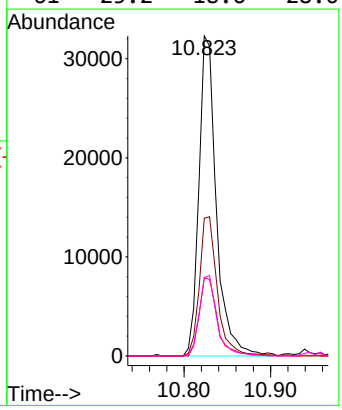


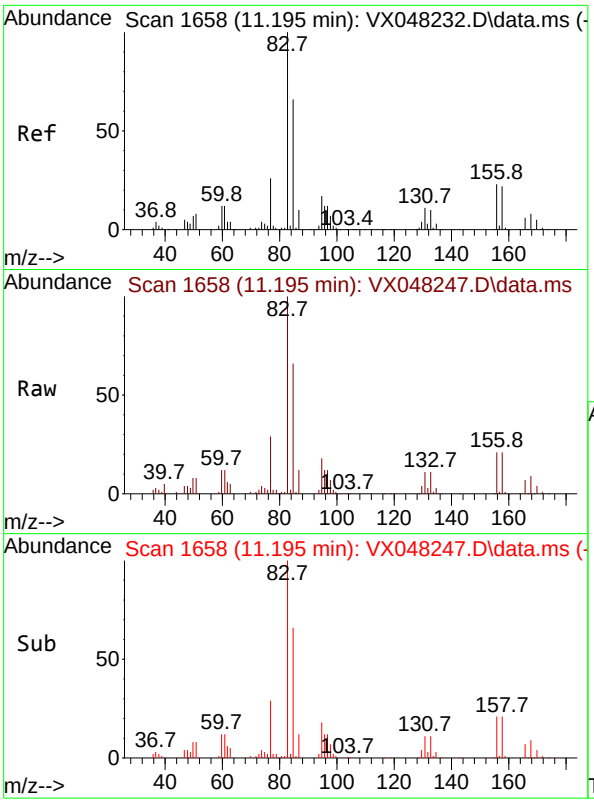


#74
N-amyl acetate
Concen: 18.864 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 43 Resp: 45284

Ion	Ratio	Lower	Upper
43	100		
70	44.8	32.2	48.2
55	25.1	19.1	28.7
61	25.2	18.6	28.0





#75
1,1,2,2-Tetrachloroethane
Concen: 20.412 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

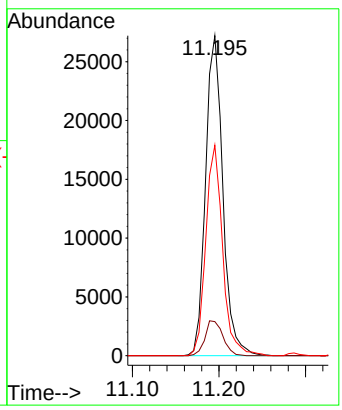
Tgt Ion: 83 Resp: 3772

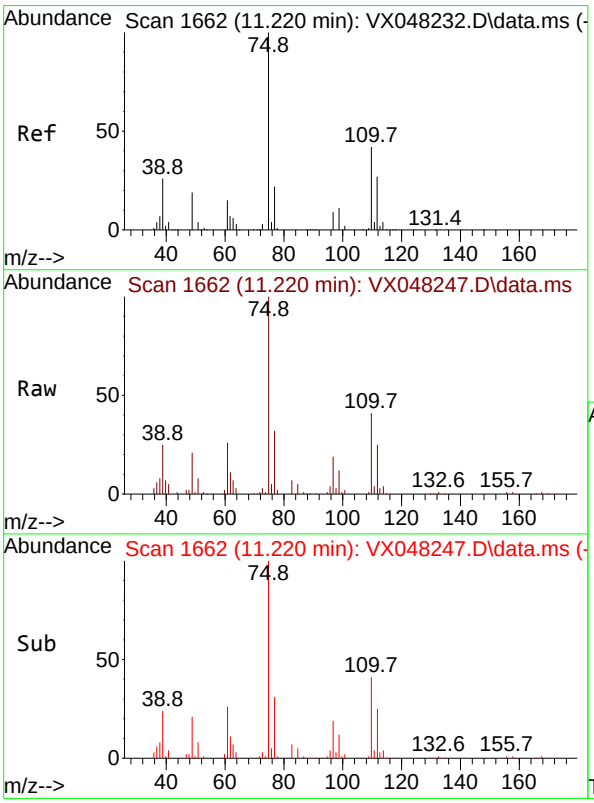
Ion	Ratio	Lower	Upper
83	100		
131	11.3	4.8	14.4
85	64.3	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

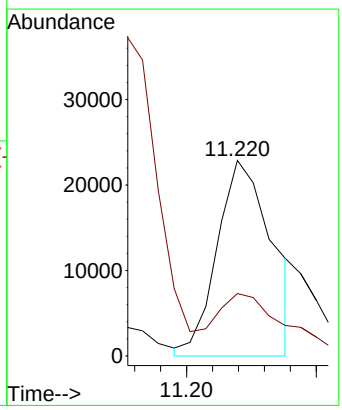


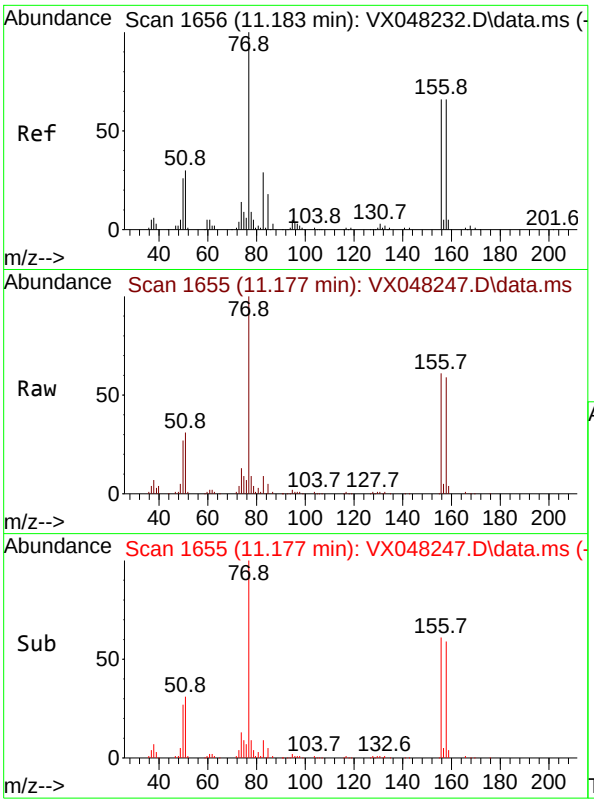


#76
1,2,3-Trichloropropane
Concen: 22.265 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 75 Resp: 33455

Ion	Ratio	Lower	Upper
75	100		
77	38.1	22.4	67.2





#77
Bromobenzene
Concen: 18.952 ug/l
RT: 11.177 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

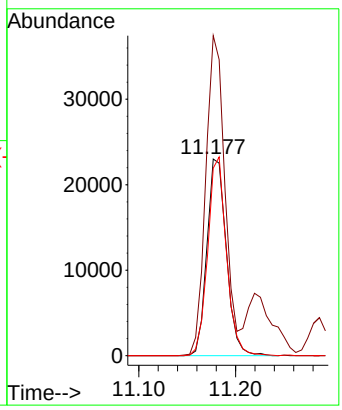
Tgt Ion:156 Resp: 3215

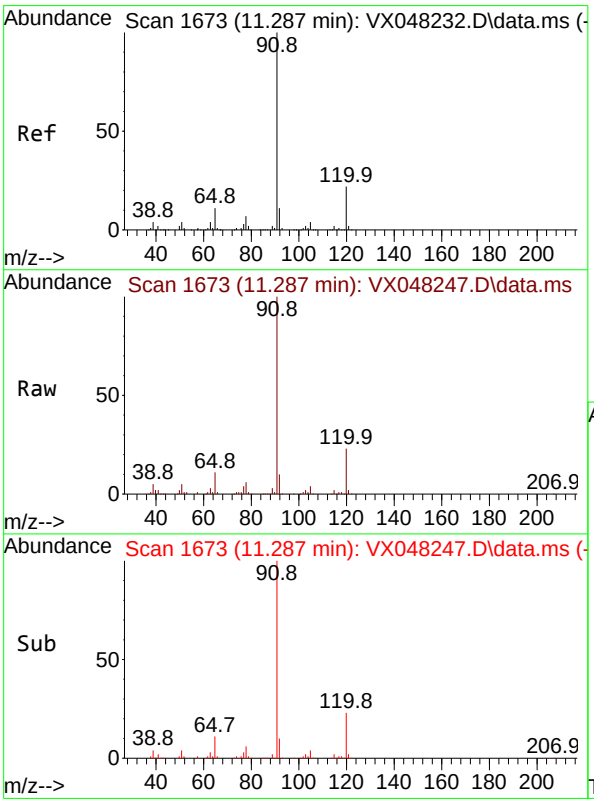
Ion	Ratio	Lower	Upper
156	100		
77	159.3	87.0	261.0
158	97.4	47.8	143.4

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

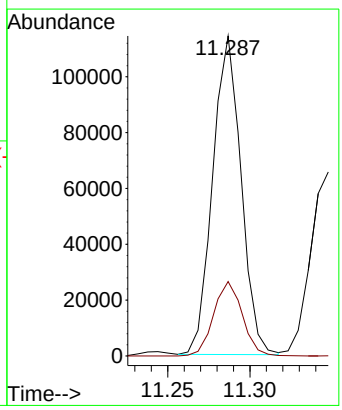


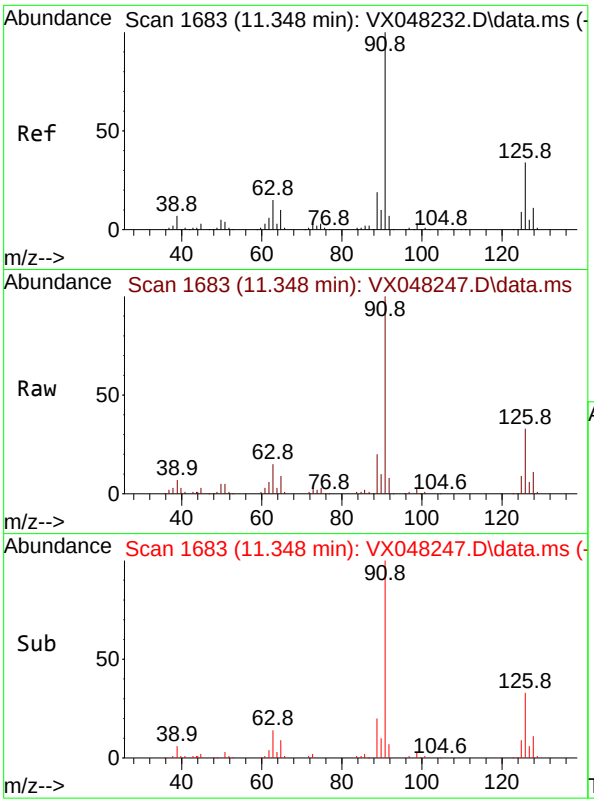


#78
n-propylbenzene
Concen: 17.482 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 91 Resp: 136981

Ion	Ratio	Lower	Upper
91	100		
120	23.6	11.1	33.1





#79
2-Chlorotoluene
Concen: 18.016 ug/l
RT: 11.348 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

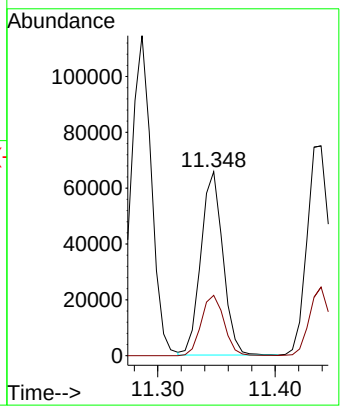
Tgt Ion: 91 Resp: 8558

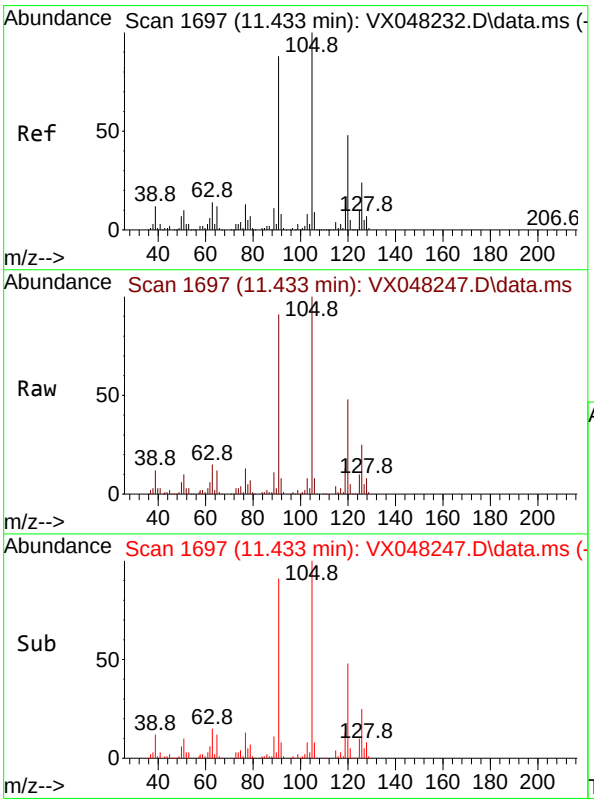
Ion	Ratio	Lower	Upper
91	100		
126	34.2	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

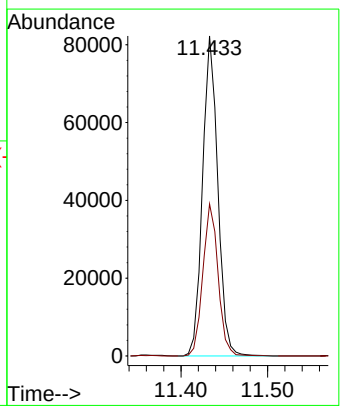


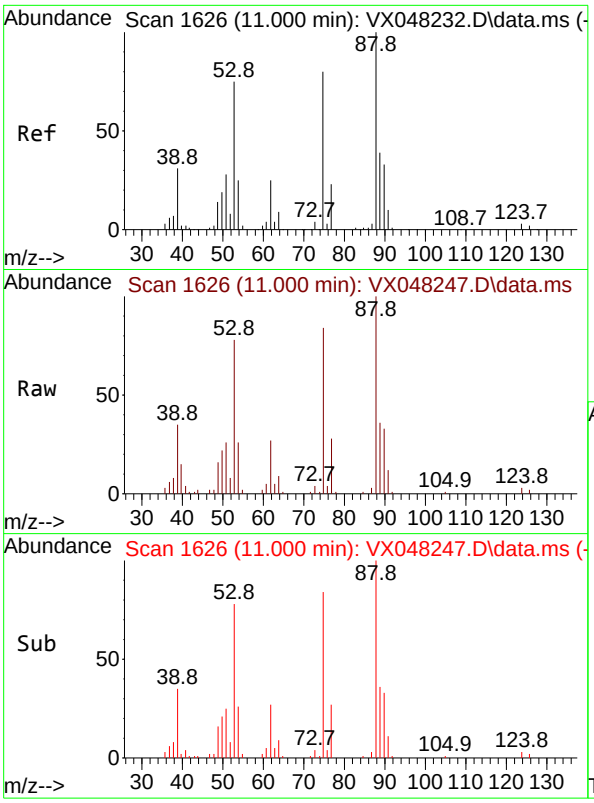


#80
1,3,5-Trimethylbenzene
Concen: 17.922 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:105 Resp: 100372

Ion	Ratio	Lower	Upper
105	100		
120	47.5	24.0	72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 17.654 ug/l
RT: 11.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

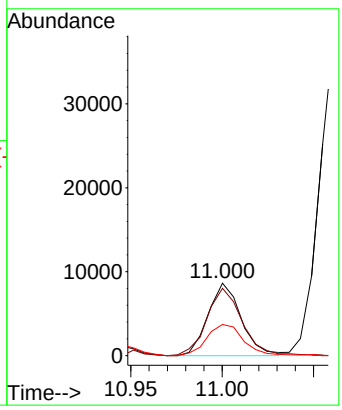
Tgt Ion: 75 Resp: 1090

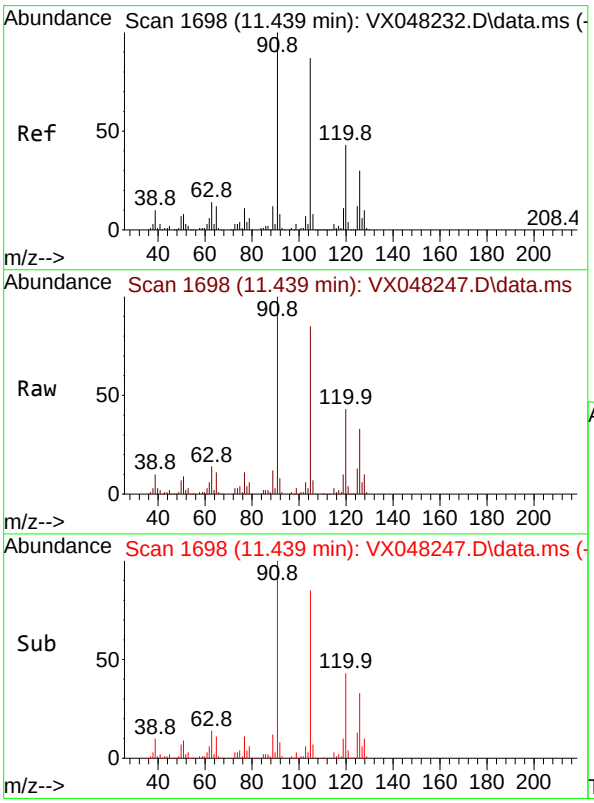
Ion	Ratio	Lower	Upper
75	100		
53	99.2	79.5	119.3
89	48.2	36.8	55.2

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

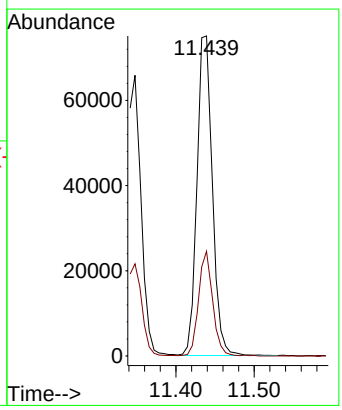


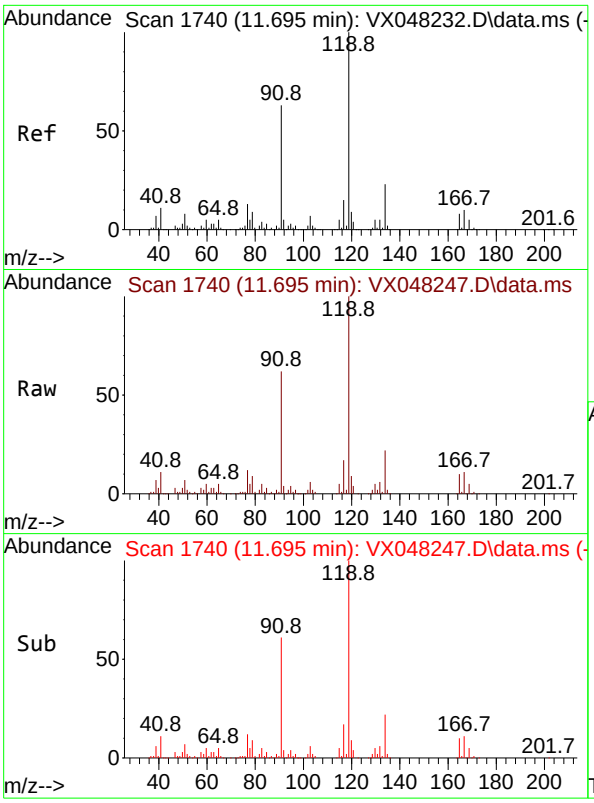


#82
4-Chlorotoluene
Concen: 18.204 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 91 Resp: 102658

Ion	Ratio	Lower	Upper
91	100		
126	29.7	14.1	42.4

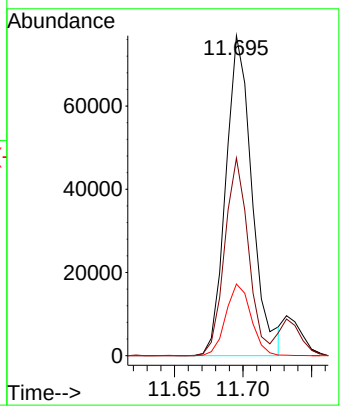




#83
tert-Butylbenzene
Concen: 17.807 ug/l
RT: 11.695 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:119 Resp: 10246

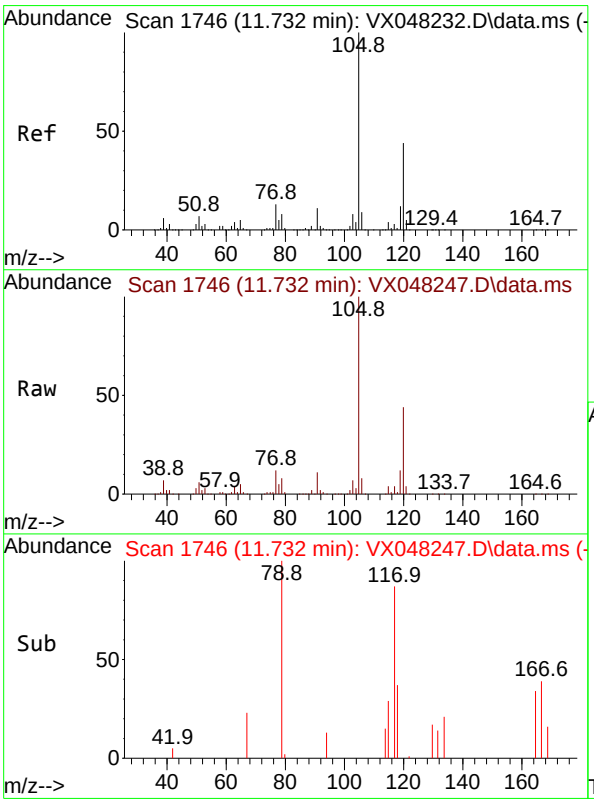
Ion	Ratio	Lower	Upper
119	100		
91	56.3	30.3	91.0
134	21.6	11.4	34.2



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

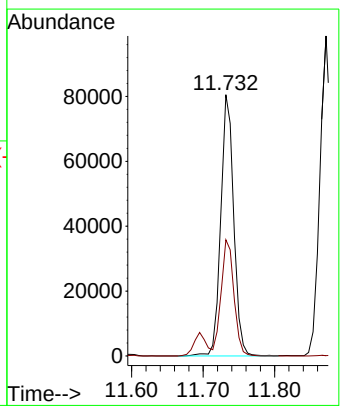
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

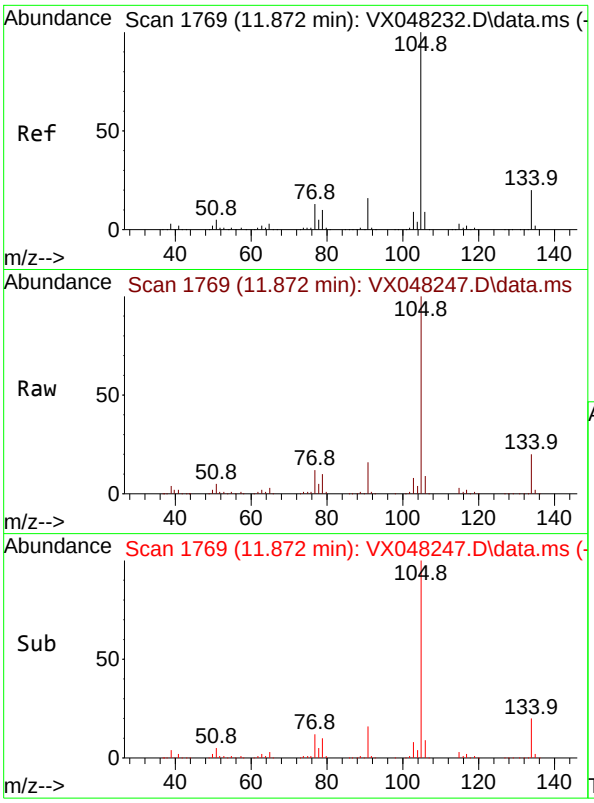


#84
1,2,4-Trimethylbenzene
Concen: 18.149 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:105 Resp: 101437

Ion	Ratio	Lower	Upper
105	100		
120	43.9	22.1	66.5

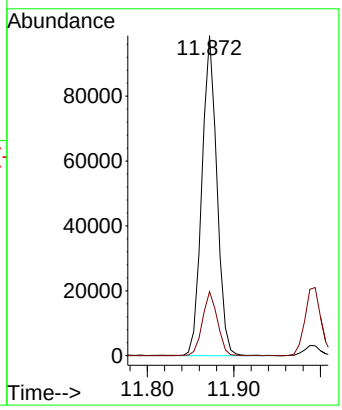




#85
sec-Butylbenzene
Concen: 17.126 ug/l
RT: 11.872 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:105 Resp: 11856

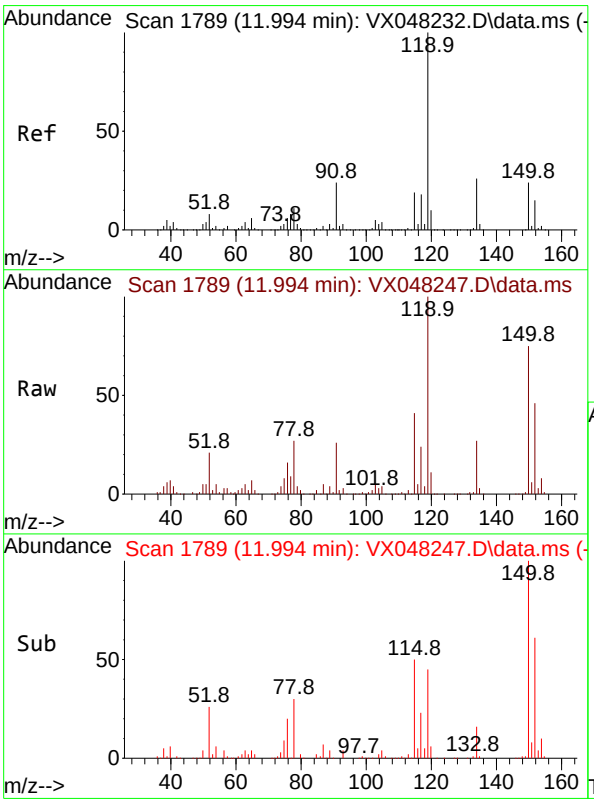
Ion	Ratio	Lower	Upper
105	100		
134	20.0	10.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

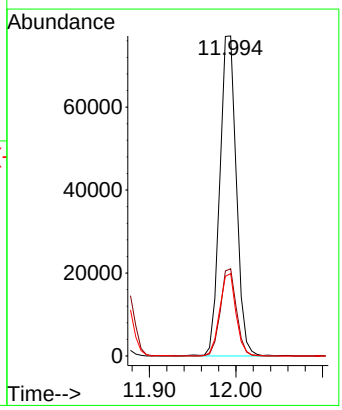
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

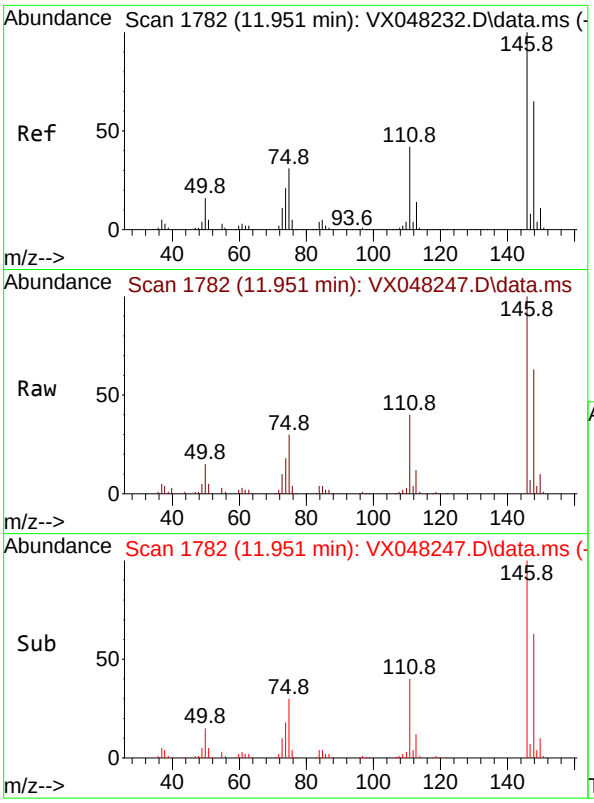


#86
p-Isopropyltoluene
Concen: 17.091 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:119 Resp: 102269

Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.0	39.0
91	25.4	12.1	36.3





#87
1,3-Dichlorobenzene
Concen: 18.001 ug/l
RT: 11.951 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

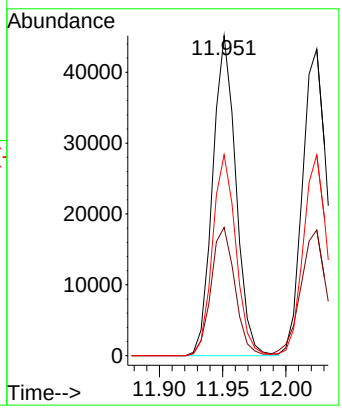
Tgt Ion:146 Resp: 5758

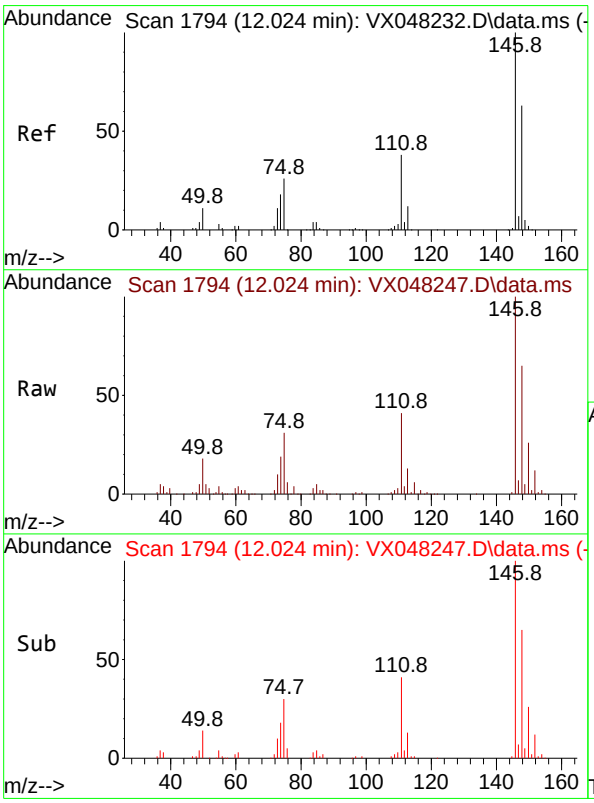
Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.4	61.2
148	63.2	31.9	95.9

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

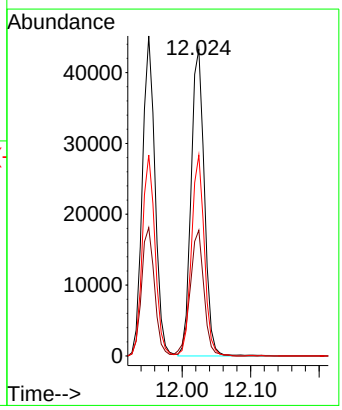


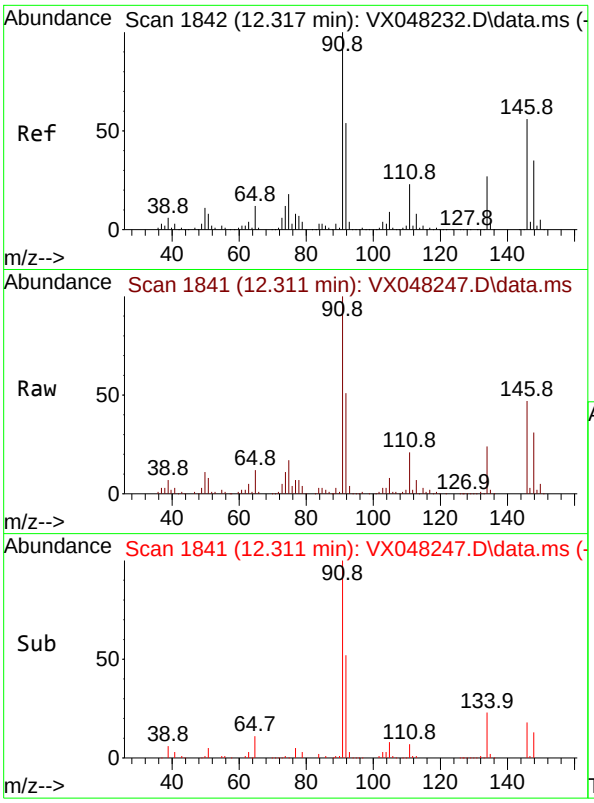


#88
1,4-Dichlorobenzene
Concen: 17.690 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:146 Resp: 58623

Ion	Ratio	Lower	Upper
146	100		
111	42.5	20.1	60.2
148	63.1	31.8	95.3





#89
n-Butylbenzene
Concen: 16.501 ug/l
RT: 12.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

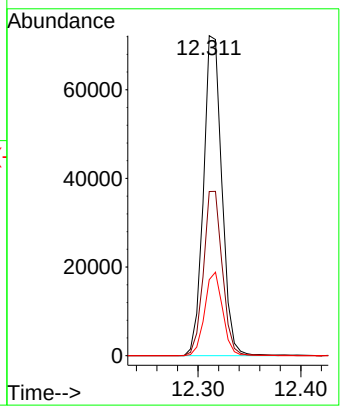
Tgt Ion: 91 Resp: 8987

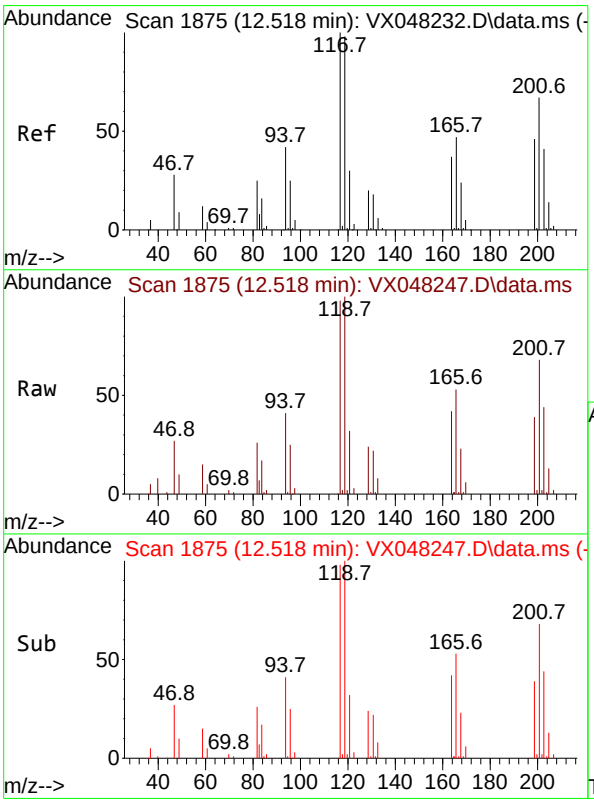
Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.9	80.6
134	25.5	12.7	38.1

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

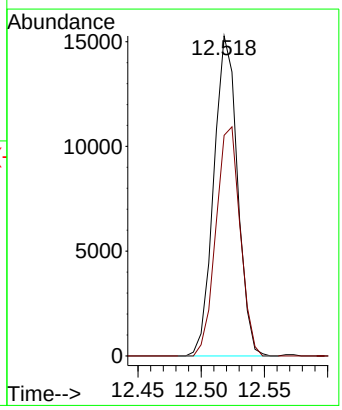


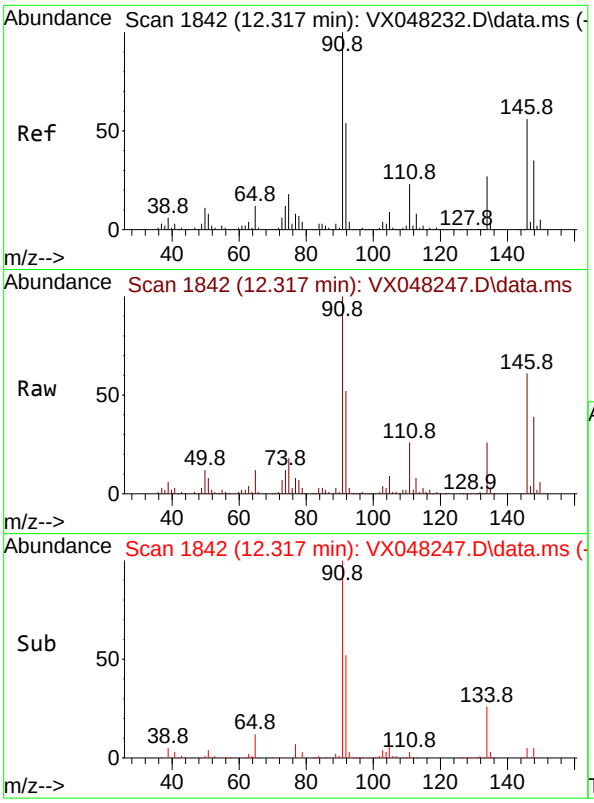


#90
Hexachloroethane
Concen: 16.842 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:117 Resp: 19902

Ion	Ratio	Lower	Upper
117	100		
201	73.0	34.1	102.2

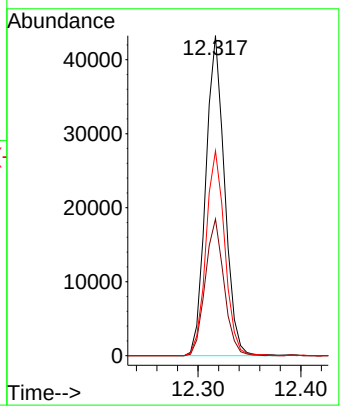




#91
1,2-Dichlorobenzene
Concen: 18.286 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:146 Resp: 5492

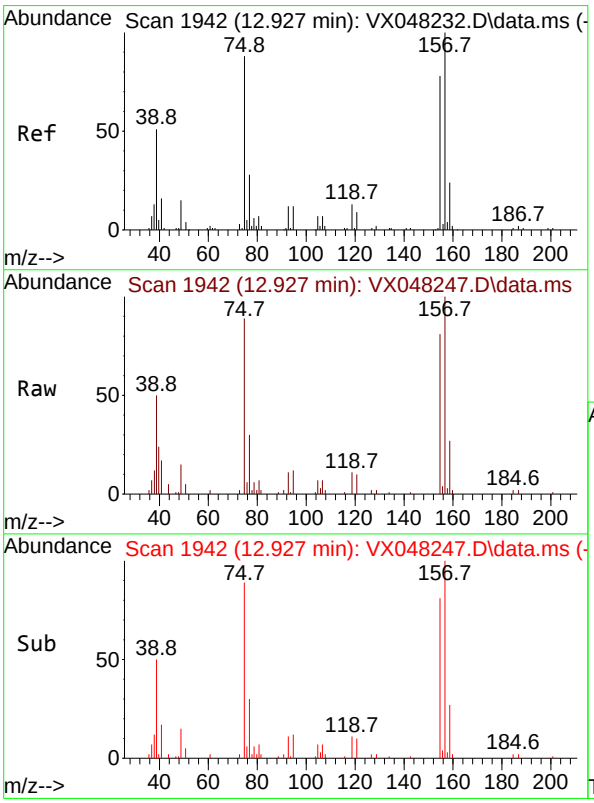
Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.9	65.5
148	64.1	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

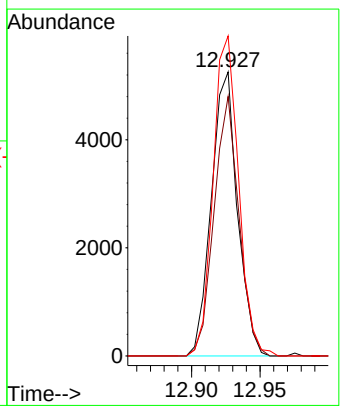
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

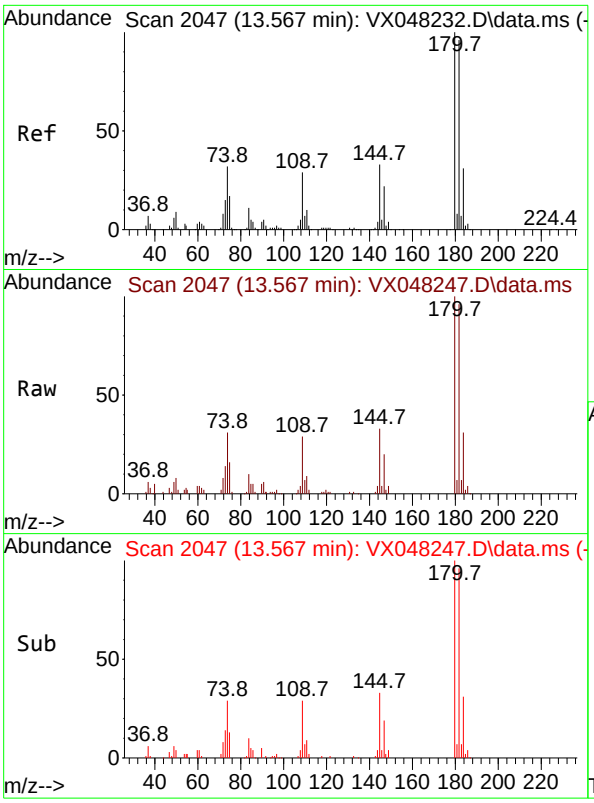


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.508 ug/l
RT: 12.927 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 75 Resp: 6943

Ion	Ratio	Lower	Upper
75	100		
155	87.2	42.8	128.4
157	110.1	54.2	162.6





#93
1,2,4-Trichlorobenzene
Concen: 16.510 ug/l
RT: 13.567 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

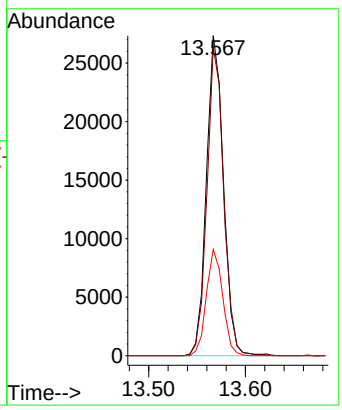
Tgt Ion:180 Resp: 3353

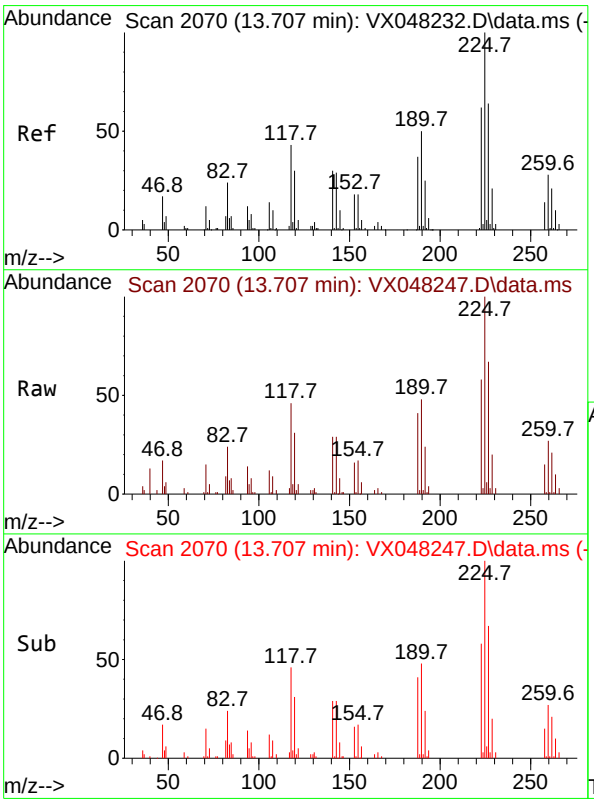
Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.3	142.0
145	32.0	16.3	48.9

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

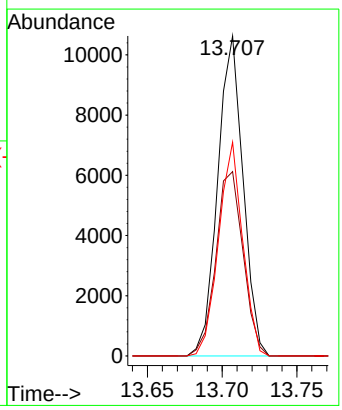


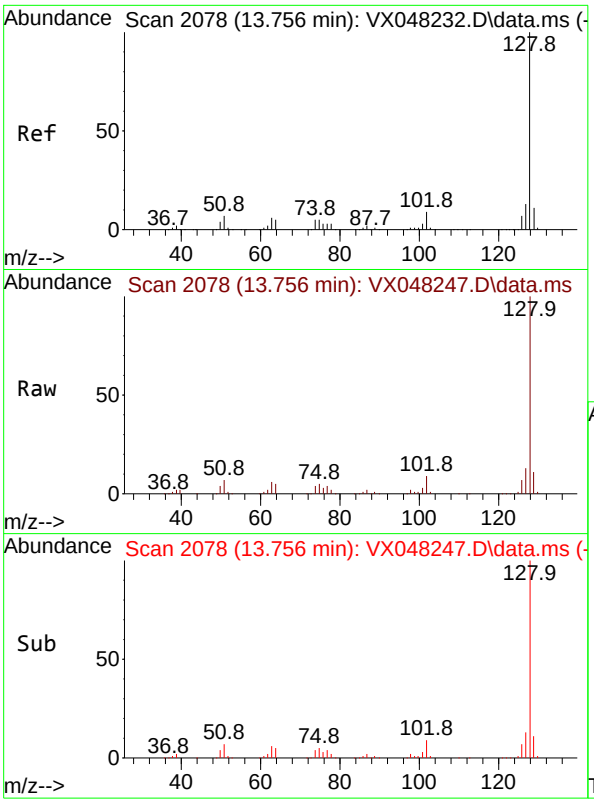


#94
Hexachlorobutadiene
Concen: 16.531 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:225 Resp: 12548

Ion	Ratio	Lower	Upper
225	100		
223	61.9	32.6	97.7
227	63.3	32.5	97.4

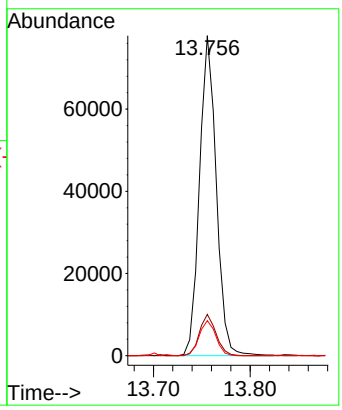




#95
Naphthalene
Concen: 17.469 ug/l
RT: 13.756 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:128 Resp: 9400

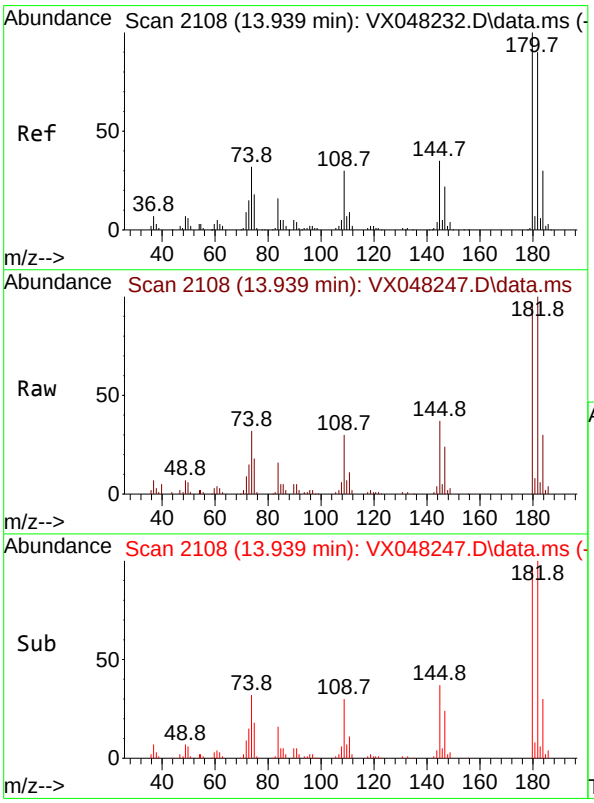
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4
129	10.9	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Manual Integrations
APPROVED

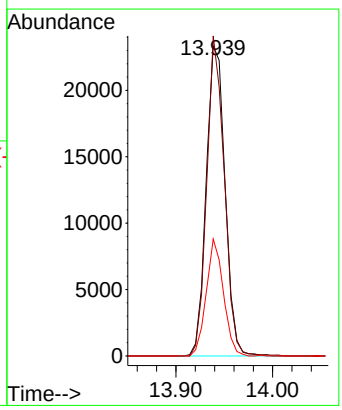
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 16.990 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:180 Resp: 31666

Ion	Ratio	Lower	Upper
180	100		
182	95.8	46.6	139.7
145	34.4	16.9	50.7



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

Manual Integration Report

Sequence:	VX102025	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX048229.D	1,2,3-Trichloropropane	JOHN	10/21/2025 8:03:22 AM	sam	10/21/2025 10:41:22 AM	Peak Integrated by Software
VSTDICC001	VX048229.D	1,4-Dichlorobenzene	JOHN	10/21/2025 8:03:22 AM	sam	10/21/2025 10:41:22 AM	Peak Integrated by Software
VSTDICC001	VX048229.D	Carbon Tetrachloride	JOHN	10/21/2025 8:03:22 AM	sam	10/21/2025 10:41:22 AM	Peak Integrated by Software
VSTDICC001	VX048229.D	Ethyl Acetate	JOHN	10/21/2025 8:03:22 AM	sam	10/21/2025 10:41:22 AM	Peak Integrated by Software
VSTDICC001	VX048229.D	Methacrylonitrile	JOHN	10/21/2025 8:03:22 AM	sam	10/21/2025 10:41:22 AM	Peak Integrated by Software
VSTDICC020	VX048231.D	1,2,3-Trichloropropane	JOHN	10/21/2025 8:03:30 AM	sam	10/21/2025 10:41:32 AM	Peak Integrated by Software
VSTDICCC050	VX048232.D	1,2,3-Trichloropropane	JOHN	10/21/2025 8:03:35 AM	sam	10/21/2025 10:41:38 AM	Peak Integrated by Software
VSTDICC100	VX048233.D	1,2,3-Trichloropropane	JOHN	10/21/2025 8:03:40 AM	sam	10/21/2025 10:42:36 AM	Peak Integrated by Software
VSTDICC150	VX048234.D	1,2,3-Trichloropropane	JOHN	10/21/2025 8:03:49 AM	sam	10/21/2025 10:43:04 AM	Peak Integrated by Software
VSTDICC005	VX048236.D	1,2,3-Trichloropropane	JOHN	10/21/2025 8:03:55 AM	sam	10/21/2025 10:41:42 AM	Peak Integrated by Software
VSTDICC005	VX048236.D	Ethyl Acetate	JOHN	10/21/2025 8:03:55 AM	sam	10/21/2025 10:41:42 AM	Peak Integrated by Software
VSTDICC005	VX048236.D	Methacrylonitrile	JOHN	10/21/2025 8:03:55 AM	sam	10/21/2025 10:41:42 AM	Peak Integrated by Software
VSTDICV050	VX048237.D	1,2,3-Trichloropropane	JOHN	10/21/2025 8:03:59 AM	sam	10/21/2025 10:41:51 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VX102025	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VX1020WBS01	VX048240.D	1,2,3-Trichloropropane	JOHN	10/21/2025 8:04:04 AM	sam	10/21/2025 10:43:00 AM	Peak Integrated by Software
VX1020WBSD01	VX048247.D	1,2,3-Trichloropropane	JOHN	10/21/2025 8:04:18 AM	sam	10/21/2025 10:41:56 AM	Peak Integrated by Software
VSTDCCC050	VX048250.D	1,2,3-Trichloropropane	JOHN	10/21/2025 8:04:26 AM	sam	10/21/2025 10:42:06 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	Vx102125	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX048252.D	1,2,3-Trichloropropane	JOHN	10/24/2025 8:49:54 AM	MMDadoda	10/24/2025 2:32:07 PM	Peak Integrated by Software
VX1021WBS01	VX048255.D	1,2,3-Trichloropropane	JOHN	10/24/2025 8:50:00 AM	MMDadoda	10/24/2025 2:32:10 PM	Peak Integrated by Software
VSTDCCC050	VX048278.D	1,2,3-Trichloropropane	JOHN	10/24/2025 8:50:16 AM	MMDadoda	10/24/2025 2:32:21 PM	Peak Integrated by Software

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102025

Review By	John Carlone	Review On	10/21/2025 8:15:04 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/21/2025 10:44:02 AM		
SubDirectory	VX102025	HP Acquire Method		HP Processing Method	82X102025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135849
Initial Calibration Stds	VP135851,VP135852,VP135853,VP135854,VP135855,VP135856
CCC	VP135850
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX048226.D	20 Oct 2025 08:15	JC/MD	Ok
2	VSTDCCC050	VX048227.D	20 Oct 2025 10:13	JC/MD	Ok
3	IBLK	VX048228.D	20 Oct 2025 10:38	JC/MD	Not Ok
4	VSTDICC001	VX048229.D	20 Oct 2025 10:59	JC/MD	Ok,M
5	VSTDICC005	VX048230.D	20 Oct 2025 11:20	JC/MD	Not Ok
6	VSTDICC020	VX048231.D	20 Oct 2025 11:40	JC/MD	Ok,M
7	VSTDICCC050	VX048232.D	20 Oct 2025 12:01	JC/MD	Ok,M
8	VSTDICC100	VX048233.D	20 Oct 2025 12:22	JC/MD	Ok,M
9	VSTDICC150	VX048234.D	20 Oct 2025 12:43	JC/MD	Ok,M
10	IBLK	VX048235.D	20 Oct 2025 13:04	JC/MD	Ok
11	VSTDICC005	VX048236.D	20 Oct 2025 13:49	JC/MD	Ok,M
12	VSTDICV050	VX048237.D	20 Oct 2025 14:28	JC/MD	Ok,M
13	VX1020MBL01	VX048238.D	20 Oct 2025 14:56	JC/MD	Ok
14	VX1020WBL01	VX048239.D	20 Oct 2025 15:23	JC/MD	Ok
15	VX1020WBS01	VX048240.D	20 Oct 2025 15:50	JC/MD	Ok,M
16	Q3371-03	VX048241.D	20 Oct 2025 16:18	JC/MD	ReRun
17	Q3371-06	VX048242.D	20 Oct 2025 16:38	JC/MD	ReRun
18	Q3371-01	VX048243.D	20 Oct 2025 16:59	JC/MD	ReRun
19	Q3371-02	VX048244.D	20 Oct 2025 17:20	JC/MD	ReRun
20	Q3371-04	VX048245.D	20 Oct 2025 17:41	JC/MD	Ok
21	Q3371-05	VX048246.D	20 Oct 2025 18:02	JC/MD	Ok

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102025

Review By	John Carlone	Review On	10/21/2025 8:15:04 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/21/2025 10:44:02 AM		
SubDirectory	VX102025	HP Acquire Method		HP Processing Method	82X102025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135849
Initial Calibration Stds	VP135851,VP135852,VP135853,VP135854,VP135855,VP135856
CCC	VP135850
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	VX1020WBSD01	VX048247.D	20 Oct 2025 18:22	JC/MD	Ok,M
23	VX1020MBS01	VX048248.D	20 Oct 2025 18:43	JC/MD	Ok,M
24	Q3390-01	VX048249.D	20 Oct 2025 19:04	JC/MD	Ok
25	VSTDCCC050	VX048250.D	20 Oct 2025 19:25	JC/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102125

Review By	John Carlone	Review On	10/23/2025 1:52:10 PM		
Supervise By	Mahesh Dadoda	Supervise On	10/24/2025 2:32:28 PM		
SubDirectory	VX102125	HP Acquire Method		HP Processing Method	82X102025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135868
Initial Calibration Stds	
CCC	VP135869,VP135870
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX048251.D	21 Oct 2025 08:12	JC/MD	Ok
2	VSTDCCC050	VX048252.D	21 Oct 2025 08:43	JC/MD	Ok,M
3	VX1021MBL01	VX048253.D	21 Oct 2025 09:12	JC/MD	Ok
4	VX1021WBL01	VX048254.D	21 Oct 2025 09:40	JC/MD	Ok
5	VX1021WBS01	VX048255.D	21 Oct 2025 10:06	JC/MD	Ok,M
6	VX1021WBSD01	VX048256.D	21 Oct 2025 10:33	JC/MD	Ok,M
7	Q3371-03	VX048257.D	21 Oct 2025 10:54	JC/MD	Ok
8	Q3371-01	VX048258.D	21 Oct 2025 11:15	JC/MD	Ok
9	Q3371-02	VX048259.D	21 Oct 2025 11:35	JC/MD	Ok
10	Q3371-06	VX048260.D	21 Oct 2025 11:56	JC/MD	Ok
11	Q3413-02	VX048261.D	21 Oct 2025 12:17	JC/MD	Ok
12	PB170148TB	VX048262.D	21 Oct 2025 12:37	JC/MD	Ok
13	Q3369-04	VX048263.D	21 Oct 2025 12:58	JC/MD	Ok
14	Q3369-08	VX048264.D	21 Oct 2025 13:19	JC/MD	Ok
15	Q3374-04	VX048265.D	21 Oct 2025 13:40	JC/MD	Ok,M
16	Q3374-08	VX048266.D	21 Oct 2025 14:00	JC/MD	Ok
17	Q3381-02	VX048267.D	21 Oct 2025 14:21	JC/MD	Ok
18	Q3381-04	VX048268.D	21 Oct 2025 14:42	JC/MD	Ok
19	Q3381-06	VX048269.D	21 Oct 2025 15:02	JC/MD	Ok
20	Q3381-08	VX048270.D	21 Oct 2025 15:23	JC/MD	Ok
21	Q3392-04	VX048271.D	21 Oct 2025 15:44	JC/MD	Ok

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102125

Review By	John Carlone	Review On	10/23/2025 1:52:10 PM		
Supervise By	Mahesh Dadoda	Supervise On	10/24/2025 2:32:28 PM		
SubDirectory	VX102125	HP Acquire Method		HP Processing Method	82X102025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135868
Initial Calibration Stds	
CCC	VP135869,VP135870
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q3392-08	VX048272.D	21 Oct 2025 16:04	JC/MD	Ok
23	IBLK	VX048273.D	21 Oct 2025 16:25	JC/MD	Ok
24	Q3400-01	VX048274.D	21 Oct 2025 16:46	JC/MD	Ok
25	Q3361-01DL	VX048275.D	21 Oct 2025 17:07	JC/MD	Ok
26	IBLK	VX048276.D	21 Oct 2025 17:27	JC/MD	Ok
27	Q3376-07	VX048277.D	21 Oct 2025 17:48	JC/MD	Ok
28	VSTDCCC050	VX048278.D	21 Oct 2025 18:09	JC/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102025

Review By	John Carlone	Review On	10/21/2025 8:15:04 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/21/2025 10:44:02 AM		
SubDirectory	VX102025	HP Acquire Method		HP Processing Method	82X102025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135849
Initial Calibration Stds	VP135851,VP135852,VP135853,VP135854,VP135855,VP135856
CCC	VP135850
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX048226.D	20 Oct 2025 08:15		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX048227.D	20 Oct 2025 10:13		JC/MD	Ok
3	IBLK	IBLK	VX048228.D	20 Oct 2025 10:38		JC/MD	Not Ok
4	VSTDICC001	VSTDICC001	VX048229.D	20 Oct 2025 10:59	LR-58,94	JC/MD	Ok,M
5	VSTDICC005	VSTDICC005	VX048230.D	20 Oct 2025 11:20		JC/MD	Not Ok
6	VSTDICC020	VSTDICC020	VX048231.D	20 Oct 2025 11:40		JC/MD	Ok,M
7	VSTDICCC050	VSTDICCC050	VX048232.D	20 Oct 2025 12:01		JC/MD	Ok,M
8	VSTDICC100	VSTDICC100	VX048233.D	20 Oct 2025 12:22		JC/MD	Ok,M
9	VSTDICC150	VSTDICC150	VX048234.D	20 Oct 2025 12:43		JC/MD	Ok,M
10	IBLK	IBLK	VX048235.D	20 Oct 2025 13:04		JC/MD	Ok
11	VSTDICC005	VSTDICC005	VX048236.D	20 Oct 2025 13:49		JC/MD	Ok,M
12	VSTDICV050	ICVVX102025	VX048237.D	20 Oct 2025 14:28	pH#Lot#V12668	JC/MD	Ok,M
13	VX1020MBL01	VX1020MBL01	VX048238.D	20 Oct 2025 14:56		JC/MD	Ok
14	VX1020WBL01	VX1020WBL01	VX048239.D	20 Oct 2025 15:23		JC/MD	Ok
15	VX1020WBS01	VX1020WBS01	VX048240.D	20 Oct 2025 15:50		JC/MD	Ok,M
16	Q3371-03	VPB184-HYD-2025101	VX048241.D	20 Oct 2025 16:18	vial A pH<2 Surrogate Fail	JC/MD	ReRun
17	Q3371-06	VPB184-HYD-2025101	VX048242.D	20 Oct 2025 16:38	vial A pH<2 Surrogate Fail	JC/MD	ReRun
18	Q3371-01	BP-VPB-184-TB-20251	VX048243.D	20 Oct 2025 16:59	vial A pH<2 TB; Surrogate Fail	JC/MD	ReRun

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102025

Review By	John Carlone	Review On	10/21/2025 8:15:04 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/21/2025 10:44:02 AM		
SubDirectory	VX102025	HP Acquire Method		HP Processing Method	82X102025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135849
Initial Calibration Stds	VP135851,VP135852,VP135853,VP135854,VP135855,VP135856
CCC	VP135850
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q3371-02	BP-VPB-184-EB-20251	VX048244.D	20 Oct 2025 17:20	vial A pH<2 EB; Surrogate Fail; Hit of com.#16	JC/MD	ReRun
20	Q3371-04	BP-VPB-184-GW-915-9	VX048245.D	20 Oct 2025 17:41	vial A pH<2	JC/MD	Ok
21	Q3371-05	BP-VPB-184-GW-920-9	VX048246.D	20 Oct 2025 18:02	vial A pH<2	JC/MD	Ok
22	VX1020WBSD01	VX1020WBSD01	VX048247.D	20 Oct 2025 18:22		JC/MD	Ok,M
23	VX1020MBS01	VX1020MBS01	VX048248.D	20 Oct 2025 18:43		JC/MD	Ok,M
24	Q3390-01	4174	VX048249.D	20 Oct 2025 19:04	cloth material	JC/MD	Ok
25	VSTDCCC050	VSTDCCC050EC	VX048250.D	20 Oct 2025 19:25		JC/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102125

Review By	John Carlone	Review On	10/23/2025 1:52:10 PM		
Supervise By	Mahesh Dadoda	Supervise On	10/24/2025 2:32:28 PM		
SubDirectory	VX102125	HP Acquire Method		HP Processing Method	82X102025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135868
Initial Calibration Stds	
CCC	VP135869,VP135870
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX048251.D	21 Oct 2025 08:12		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX048252.D	21 Oct 2025 08:43	pH#Lot#V12668	JC/MD	Ok,M
3	VX1021MBL01	VX1021MBL01	VX048253.D	21 Oct 2025 09:12		JC/MD	Ok
4	VX1021WBL01	VX1021WBL01	VX048254.D	21 Oct 2025 09:40		JC/MD	Ok
5	VX1021WBS01	VX1021WBS01	VX048255.D	21 Oct 2025 10:06		JC/MD	Ok,M
6	VX1021WBSD01	VX1021WBSD01	VX048256.D	21 Oct 2025 10:33		JC/MD	Ok,M
7	Q3371-03	VPB184-HYD-2025101	VX048257.D	21 Oct 2025 10:54	vial B pH<2	JC/MD	Ok
8	Q3371-01	BP-VPB-184-TB-20251	VX048258.D	21 Oct 2025 11:15	vial B pH<2 TB	JC/MD	Ok
9	Q3371-02	BP-VPB-184-EB-20251	VX048259.D	21 Oct 2025 11:35	vial B pH<2 EB	JC/MD	Ok
10	Q3371-06	VPB184-HYD-2025101	VX048260.D	21 Oct 2025 11:56	vial B pH<2	JC/MD	Ok
11	Q3413-02	BP-VPB-184-TB-20251	VX048261.D	21 Oct 2025 12:17	vial A pH<2 TB	JC/MD	Ok
12	PB170148TB	PB170148TB	VX048262.D	21 Oct 2025 12:37		JC/MD	Ok
13	Q3369-04	MH-22	VX048263.D	21 Oct 2025 12:58	vial A pH#5.0	JC/MD	Ok
14	Q3369-08	MH-21	VX048264.D	21 Oct 2025 13:19	vial A pH#5.0	JC/MD	Ok
15	Q3374-04	TP-4-WC	VX048265.D	21 Oct 2025 13:40	vial A pH#5.0	JC/MD	Ok,M
16	Q3374-08	TP-5-WC	VX048266.D	21 Oct 2025 14:00	vial A pH#5.0	JC/MD	Ok
17	Q3381-02	VNJ-222	VX048267.D	21 Oct 2025 14:21	vial A pH#5.0	JC/MD	Ok
18	Q3381-04	VNJ-245	VX048268.D	21 Oct 2025 14:42	vial A pH#5.0	JC/MD	Ok

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102125

Review By	John Carlone	Review On	10/23/2025 1:52:10 PM		
Supervise By	Mahesh Dadoda	Supervise On	10/24/2025 2:32:28 PM		
SubDirectory	VX102125	HP Acquire Method		HP Processing Method	82X102025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135868
Initial Calibration Stds	
CCC	VP135869,VP135870
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q3381-06	RBR200059	VX048269.D	21 Oct 2025 15:02	vial A pH#5.0	JC/MD	Ok
20	Q3381-08	VNJ-255	VX048270.D	21 Oct 2025 15:23	vial A pH#5.0	JC/MD	Ok
21	Q3392-04	MH-20	VX048271.D	21 Oct 2025 15:44	vial A pH#5.0	JC/MD	Ok
22	Q3392-08	MH-19	VX048272.D	21 Oct 2025 16:04	vial A pH#5.0	JC/MD	Ok
23	IBLK	IBLK	VX048273.D	21 Oct 2025 16:25		JC/MD	Ok
24	Q3400-01	FRAC-TANK-0760450	VX048274.D	21 Oct 2025 16:46	vial A+B pH<2	JC/MD	Ok
25	Q3361-01DL	VOA 251015111-01DL	VX048275.D	21 Oct 2025 17:07	vial B pH#6.0	JC/MD	Ok
26	IBLK	IBLK	VX048276.D	21 Oct 2025 17:27		JC/MD	Ok
27	Q3376-07	PR132-FB01-20251016	VX048277.D	21 Oct 2025 17:48	vial A pH<2	JC/MD	Ok
28	VSTDCCC050	VSTDCCC050EC	VX048278.D	21 Oct 2025 18:09		JC/MD	Ok,M

M : Manual Integration

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

Prep Standard - Chemical Standard Summary

Order ID : Q3371

Test : VOC-TCLVOA-10

Prepbatch ID :

Sequence ID/Qc Batch ID: VX102025,Vx102125,

Standard ID :
VP134142,VP134145,VP134149,VP134151,VP134933,VP134935,VP134956,VP134957,VP135552,VP135554,VP135834,VP135836,VP135849,VP135850,VP135851,VP135852,VP135853,VP135854,VP135855,VP135856,VP135868,VP135869,VP135870,

Chemical ID :
V13391,V14200,V14204,V14205,V14290,V14509,V14510,V14531,V14532,V14625,V14626,V14636,V14637,V14638,V14639,V14668,V14671,V14673,V14675,V14727,V14728,V14803,V14815,V14844,V14906,V14928,V14929,V14951,V14952,V15073,V15074,V15075,W3112,

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
719	8260 Working STD (BCM)-First source, 400PPM	VP134142	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 1.00000ml of V14668 + 1.00000ml of V14671 + 1.00000ml of V14673 + 1.00000ml of V14675 + 16.00000ml of V14929 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
253	8260 Working STD (BCM)-First source, 20PPM	VP134145	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 0.50000ml of V14675 + 49.50000ml of V14929 = Final Quantity: 50.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1810	8260 Working Std(2-CVE)-800ppm	VP134149	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1812	8260 Working Std(2-CVE)-100ppm	VP134151	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 0.25000ml of V14639 + 24.75000ml of V14929 = Final Quantity: 25.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
617	8260 Surrogate, 400PPM	VP134933	07/29/2025	01/29/2026	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/19/2025

FROM 0.40000ml of V14906 + 24.60000ml of V14625 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1738	8260 surrogate 20 ppm	VP134935	07/29/2025	01/29/2026	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/06/2025

FROM 0.02000ml of V14906 + 24.99000ml of V14625 = Final Quantity: 25.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
247	8260 Internal Standard, 250PPM	VP134956	08/01/2025	11/09/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/06/2025

FROM 0.25000ml of V14290 + 24.75000ml of V14626 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
218	BFB, 25PPM	VP134957	08/01/2025	11/22/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/06/2025

FROM 0.50000ml of V13391 + 49.50000ml of V14625 = Final Quantity: 50.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP135552	09/22/2025	11/03/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/26/2025

FROM 0.40000ml of V14844 + 1.00000ml of V14200 + 1.00000ml of V14509 + 1.00000ml of V14510 + 1.00000ml of V14531 + 1.00000ml of V14532 + 1.00000ml of V14727 + 1.00000ml of V14728 + 1.00000ml of V14803 + 1.00000ml of V14815 + 1.00000ml of V14951 + 1.00000ml of V14952 + 1.50000ml of V14204 + 1.50000ml of V14205 + 10.60000ml of V14928 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
245	8260 Calibration Working STD Mix-First source, 20PPM	VP135554	09/22/2025	11/03/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/26/2025

FROM 17.50000ml of V14928 + 2.50000ml of VP135552 = Final Quantity: 20.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP135834	10/17/2025	11/16/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 10/17/2025

FROM 1.00000ml of V15073 + 1.50000ml of V15074 + 1.50000ml of V15075 + 21.00000ml of V14928 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
180	8260 Working STD (Acrolein)-First source, 100PPM	VP135836	10/17/2025	11/16/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 10/17/2025

FROM 17.50000ml of V14928 + 2.50000ml of VP135834 = Final Quantity: 20.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP135849	10/20/2025	10/21/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 10/21/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP134957 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135850	10/20/2025	10/21/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 10/21/2025

FROM 39.94000ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135552 + 0.01250ml of VP135834 = Final Quantity: 40.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
334	1 PPB ICC, 8260-Water	VP135851	10/20/2025	10/21/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 10/21/2025

FROM 39.98200ml of W3112 + 0.00200ml of VP134145 + 0.00200ml of VP134151 + 0.00200ml of VP134935 + 0.00200ml of VP135554 + 0.00200ml of VP135836 + 0.00800ml of VP134956 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
335	5 PPB ICC, 8260-Water	VP135852	10/20/2025	10/21/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 10/21/2025

FROM 39.94200ml of W3112 + 0.00800ml of VP134956 + 0.01000ml of VP134145 + 0.01000ml of VP134151 + 0.01000ml of VP134935 + 0.01000ml of VP135554 + 0.01000ml of VP135836 = Final Quantity: 40.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
337	20 PPB ICC, 8260-Water	VP135853	10/20/2025	10/21/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 10/21/2025

FROM 39.97000ml of W3112 + 0.00200ml of VP134142 + 0.00200ml of VP134933 + 0.00500ml of VP134149 + 0.00500ml of VP135552 + 0.00500ml of VP135834 + 0.00800ml of VP134956 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
380	50 PPB ICC, 8260-Water	VP135854	10/20/2025	10/21/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 10/21/2025

FROM 39.94000ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135552 + 0.01250ml of VP135834 = Final Quantity: 40.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
381	100 PPB ICC, 8260-Water	VP135855	10/20/2025	10/21/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 10/21/2025

FROM 39.89700ml of W3112 + 0.00800ml of VP134956 + 0.01000ml of VP134142 + 0.01000ml of VP134933 + 0.02500ml of VP134149 + 0.02500ml of VP135552 + 0.02500ml of VP135834 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
382	150 PPB ICC, 8260-Water	VP135856	10/20/2025	10/21/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 10/21/2025

FROM 39.84950ml of W3112 + 0.00800ml of VP134956 + 0.01500ml of VP134142 + 0.01500ml of VP134933 + 0.03750ml of VP134149 + 0.03750ml of VP135552 + 0.03750ml of VP135834 = Final Quantity: 40.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP135868	10/21/2025	10/22/2025	John Carlone	None	None	Mahesh Dadoda 10/21/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP134957 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135869	10/21/2025	10/22/2025	John Carlone	None	None	Mahesh Dadoda 10/21/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135552 + 0.01250ml of VP135834 = Final Quantity: 40.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135870	10/21/2025	10/22/2025	John Carlone	None	None	Mahesh Dadoda 10/21/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135552 + 0.01250ml of VP135834 = Final Quantity: 40.000 ml

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14200

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	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14204

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	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14205

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	12/12/2025	12/12/2024 / SAM	04/15/2024 / SAM	V14290

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	03/22/2026	09/22/2025 / sam	09/17/2024 / SAM	V14509

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

CHEMICAL RECEIPT LOG BOOK

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	03/22/2026	09/22/2025 / sam	09/17/2024 / SAM	V14510

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	03/22/2026	09/22/2025 / sam	09/18/2024 / SAM	V14531

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	03/22/2026	09/22/2025 / sam	09/18/2024 / SAM	V14532

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	01/29/2026	07/29/2025 / SAM	11/26/2024 / SAM	V14625

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	11/09/2025	05/09/2025 / SAM	11/26/2024 / SAM	V14626

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14636

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14637

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14638

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14639

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	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14668

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	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14671

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	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14673

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

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	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14675

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	03/22/2026	09/22/2025 / sam	12/17/2024 / SAM	V14727

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	03/22/2026	09/22/2025 / sam	12/17/2024 / SAM	V14728

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 LOTS	A0220471	03/22/2026	09/22/2025 / sam	01/08/2025 / SAM	V14803

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 LOTS	A0220471	03/22/2026	09/22/2025 / sam	01/08/2025 / SAM	V14815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0217535	03/22/2026	09/22/2025 / sam	01/21/2025 / SAM	V14844

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

CHEMICAL RECEIPT LOG BOOK

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]	A0223904	07/29/2026	07/29/2025 / SAM	03/24/2025 / SAM	V14906

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)	24G0262002	03/22/2026	09/22/2025 / sam	05/09/2025 / SAM	V14928

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)	24G0262002	12/06/2025	06/06/2025 / SAM	05/09/2025 / SAM	V14929

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	A0222076	03/22/2026	09/22/2025 / sam	05/19/2025 / SAM	V14951

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	A0222076	03/22/2026	09/22/2025 / sam	05/19/2025 / SAM	V14952

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	101625	11/16/2025	10/17/2025 / sam	10/17/2025 / sam	V15073

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	101625	11/16/2025	10/17/2025 / sam	10/17/2025 / sam	V15074

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	101625	11/16/2025	10/17/2025 / sam	10/17/2025 / sam	V15075

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 / Iwona	07/03/2024 / Iwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable 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

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable 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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Formulated By:	Prashant Chauhan	021624 DATE
Reviewed By:	Pedro L. Rentas	021624 DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 | 5E-05 Balance Uncertainty | 0.021 Flask Uncertainty

	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	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.	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)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCR6561	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)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0466)	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)	IK18CAS0000	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)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	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)	orl-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)	orl-rat 2460mg/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)	orl-rat 120mg/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)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW6137V	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)	orl-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)	orl-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)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
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 (7600mg/m3/8H)	orl-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	orl-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	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	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-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-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	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-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)	orl-rat 933mg/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)	orl-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)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-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	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-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	106-93-4	20 ppm (8H)	orl-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)	orl-rat 670mg/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)	orl-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	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	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	40017.6	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)	orl-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	orl-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)	orl-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)	orl-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)	orl-mus 2402mg/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)	orl-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	orl-rat 4894mg/kg
46.	Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-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)	orl-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	99-87-6	N/A	orl-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)	orl-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	orl-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	orl-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 1390mg/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)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-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	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	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	1999.8	22.9	135-98-8	N/A	orl-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)	orl-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	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-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	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	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)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 8040mg/kg
68.	o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

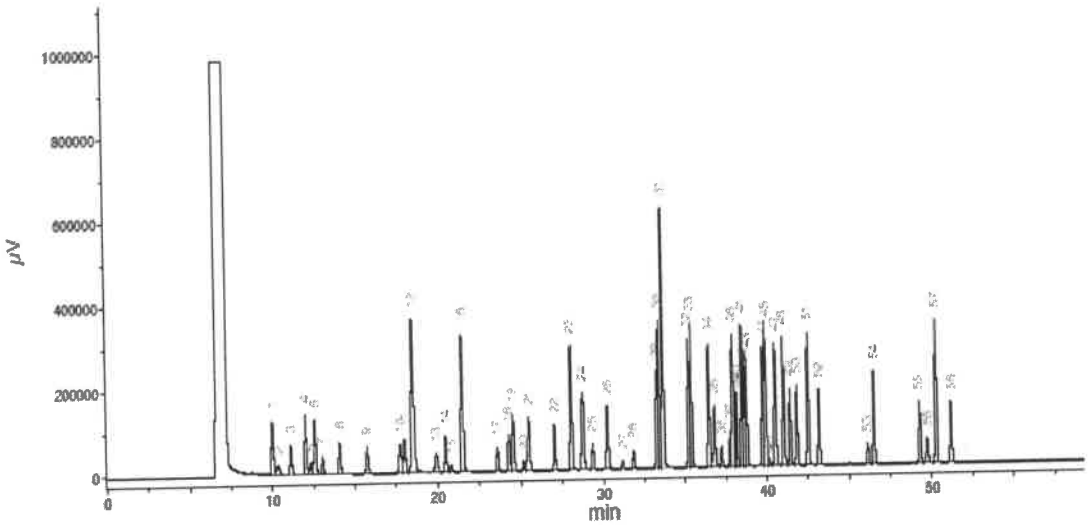
- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, 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).

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., Hydogen(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-1,2,3-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	15.74
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	18.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.86
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.62
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.07
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethane/1,3-Dichloropropane	30.34
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.33
33	Styrene	35.50
34	Isopropylbenzene/Bromoform	35.48
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	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.02
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.46
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

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 sheild**
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. 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 (H2O = 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)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Formulated By:	Prashant Chauhan	021624 DATE
Reviewed By:	Pedro L. Rentas	021624 DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 | 5E-05 Balance Uncertainty | 0.021 Flask Uncertainty

	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	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.	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)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCR6561	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)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0466)	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)	IK18CAS0000	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)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	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)	orl-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)	orl-rat 2460mg/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)	orl-rat 120mg/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)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW6137V	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)	orl-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)	orl-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)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
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 (7600mg/m3/8H)	orl-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	orl-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	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	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-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-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	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-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)	orl-rat 933mg/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)	orl-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)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-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	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-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	106-93-4	20 ppm (8H)	orl-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)	orl-rat 670mg/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)	orl-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	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	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	40017.6	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)	orl-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	orl-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)	orl-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)	orl-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)	orl-mus 2402mg/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)	orl-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	orl-rat 4894mg/kg
46.	Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-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)	orl-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	99-87-6	N/A	orl-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)	orl-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	orl-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	orl-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 1390mg/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)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-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	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	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	1999.8	22.9	135-98-8	N/A	orl-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)	orl-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	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-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	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	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)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 8040mg/kg
68.	o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

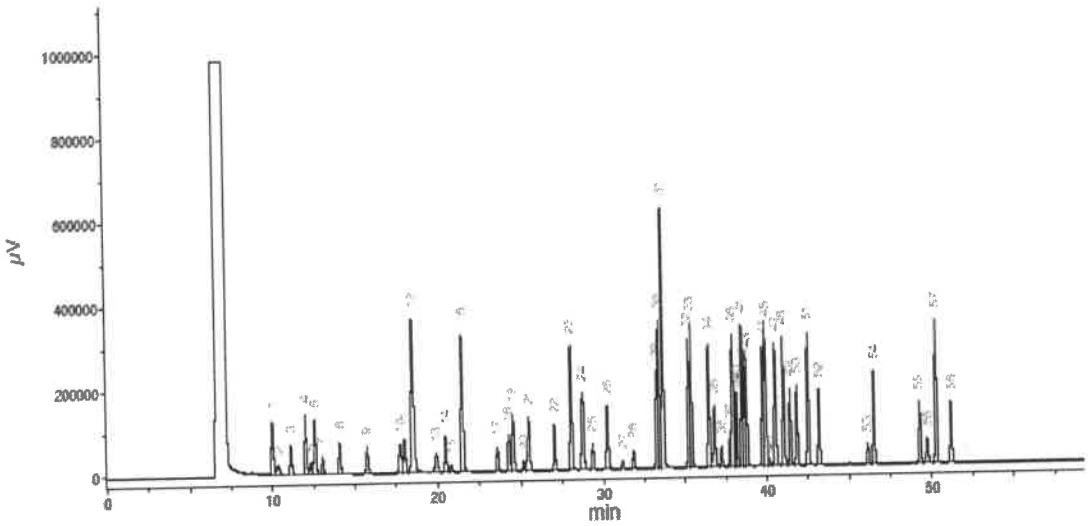
- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, 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).

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., Hydogen(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-1,2,3-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	15.74
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	18.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.86
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.62
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.07
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethane/1,3-Dichloropropane	30.34
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.33
33	Styrene	35.50
34	Isopropylbenzene/Bromoform	35.48
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	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.02
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.46
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

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 sheild**
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. 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 (H2O = 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)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 072324Q

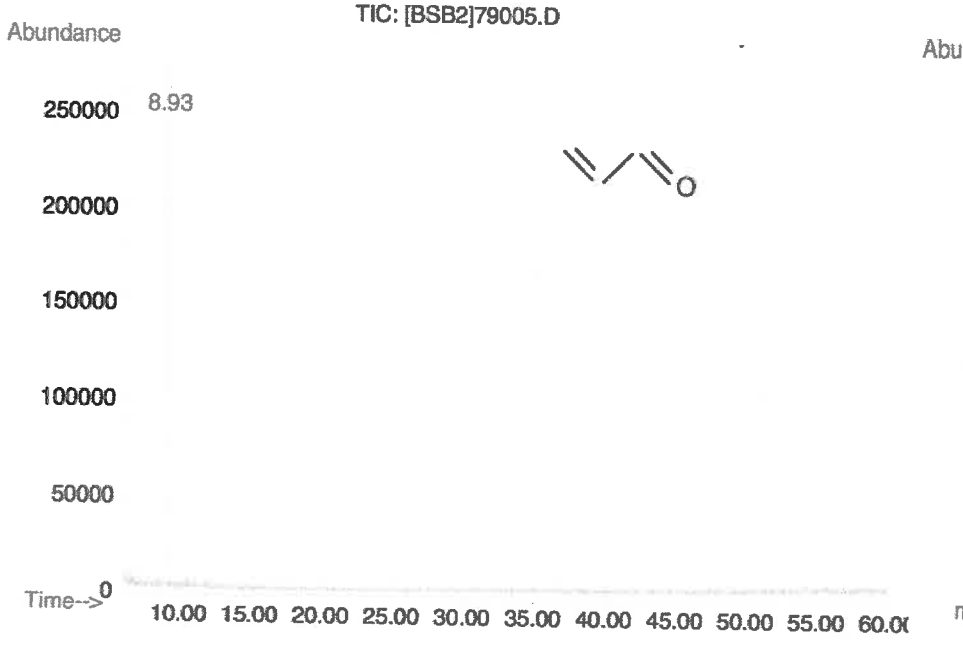
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

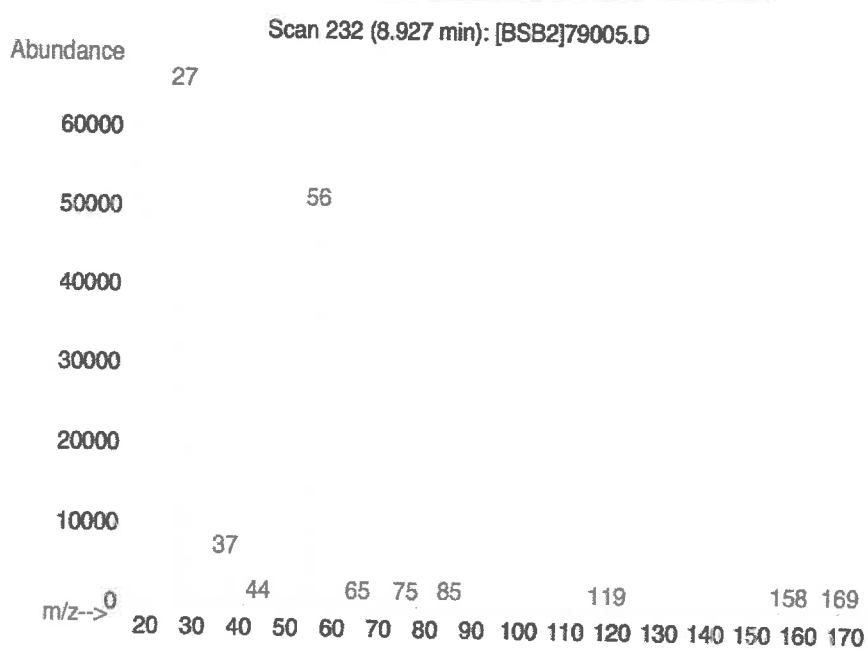
Justin Dippold 091424
Formulated By: Justin Dippold DATE

Pedro Rentas 091424
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. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- 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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 072324Q

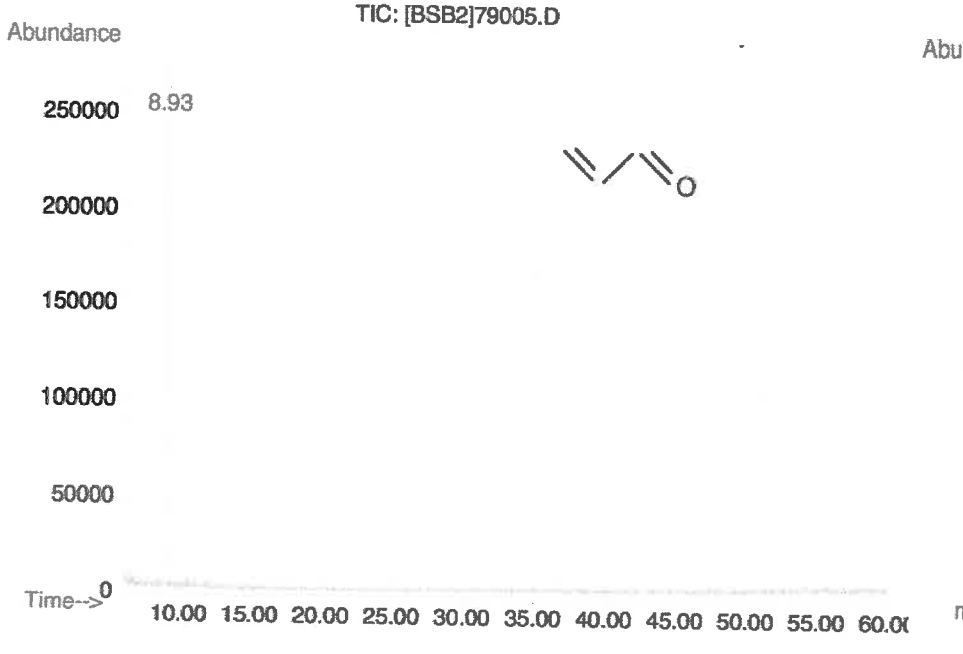
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

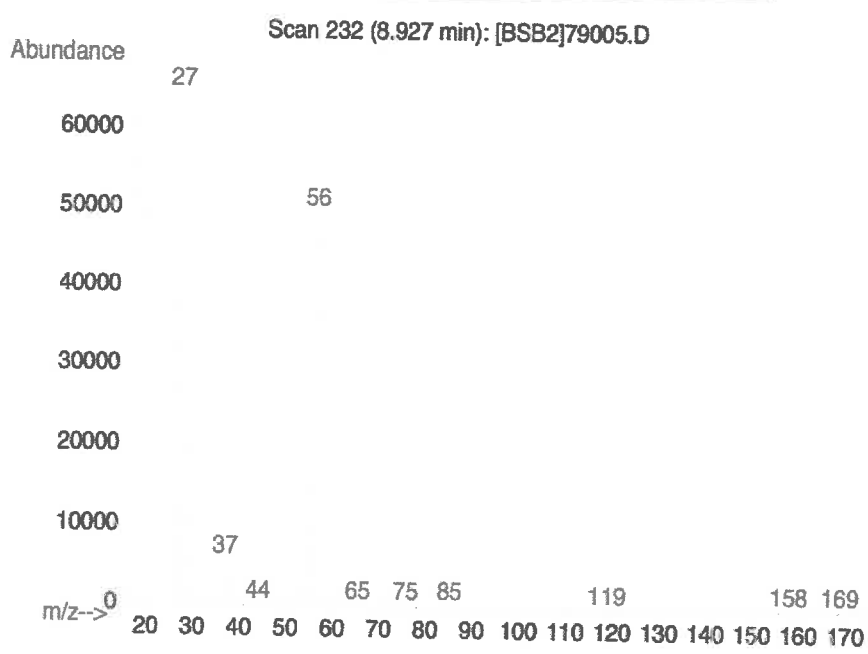
Justin Dippold 091424
Formulated By: Justin Dippold DATE

Pedro Rentas 091424
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. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- 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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

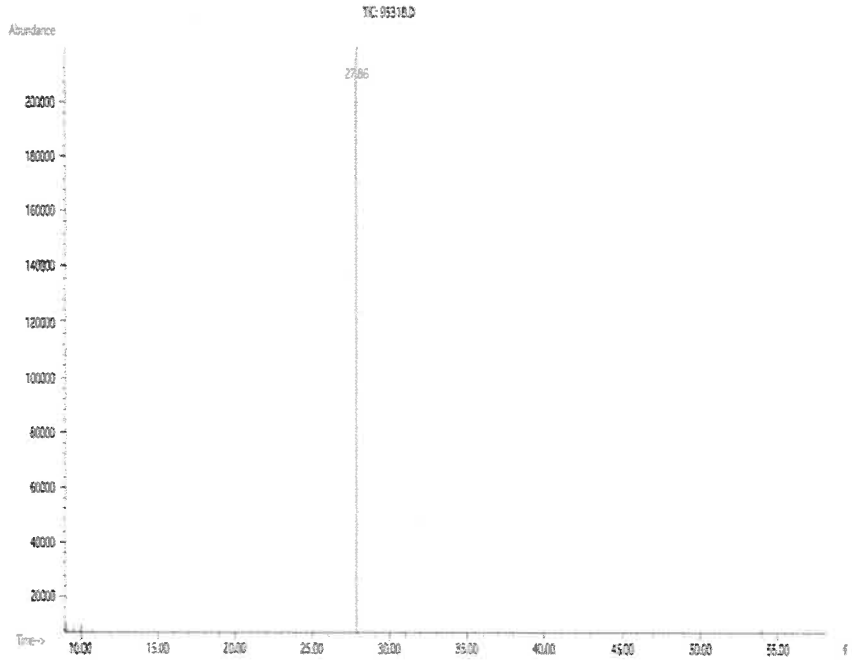
V14630 to V14649

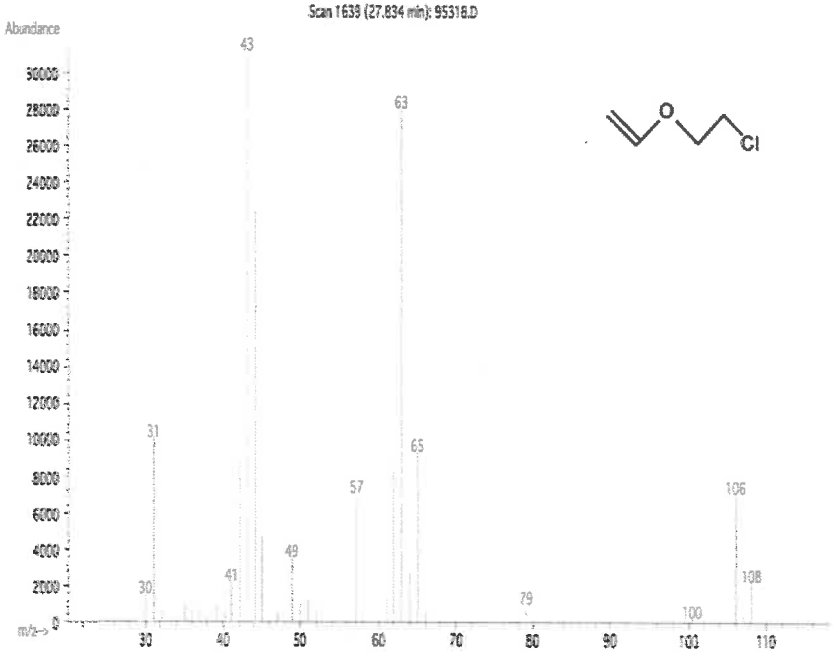
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

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.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	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 certifed (+/-) 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).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

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 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 sheild**
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. 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 (H2O = 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)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

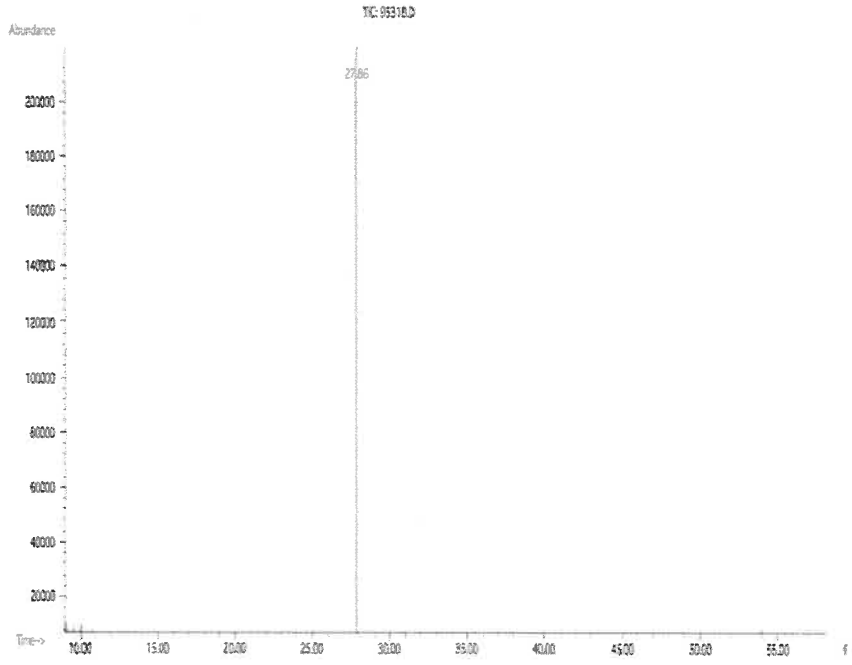
V14630 to V14649

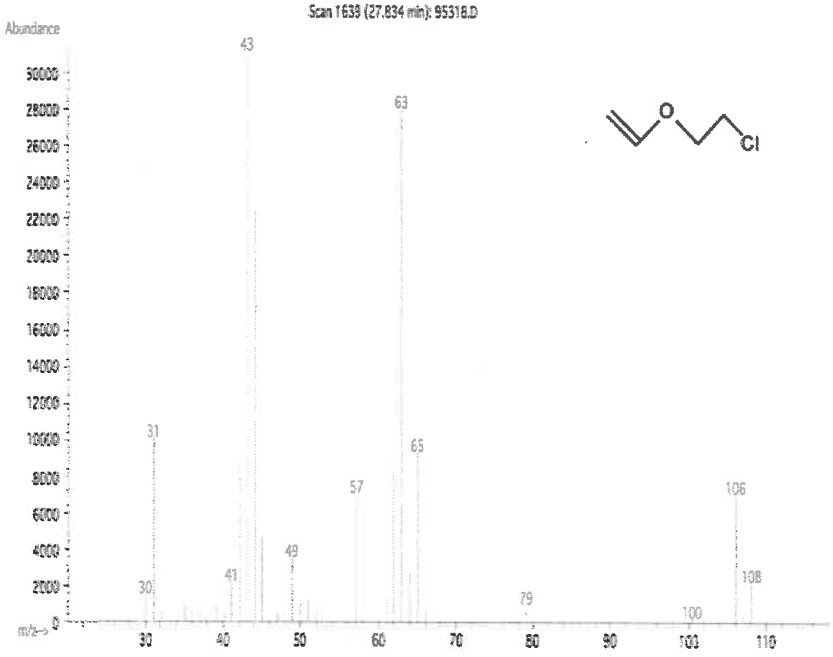
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

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.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	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 certifed (+/-) 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).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

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 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 sheild**
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. 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 (H2O = 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)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

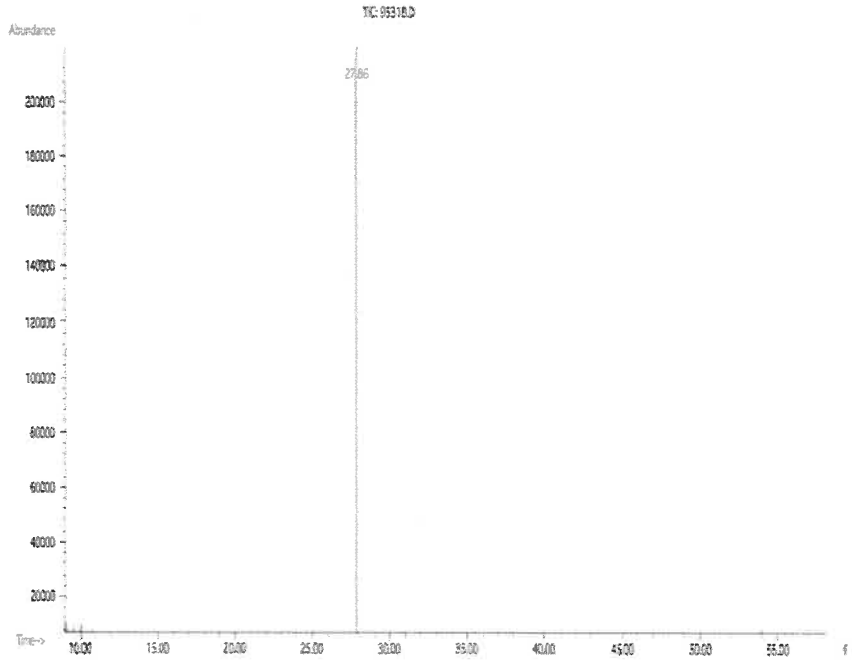
V14630 to V14649

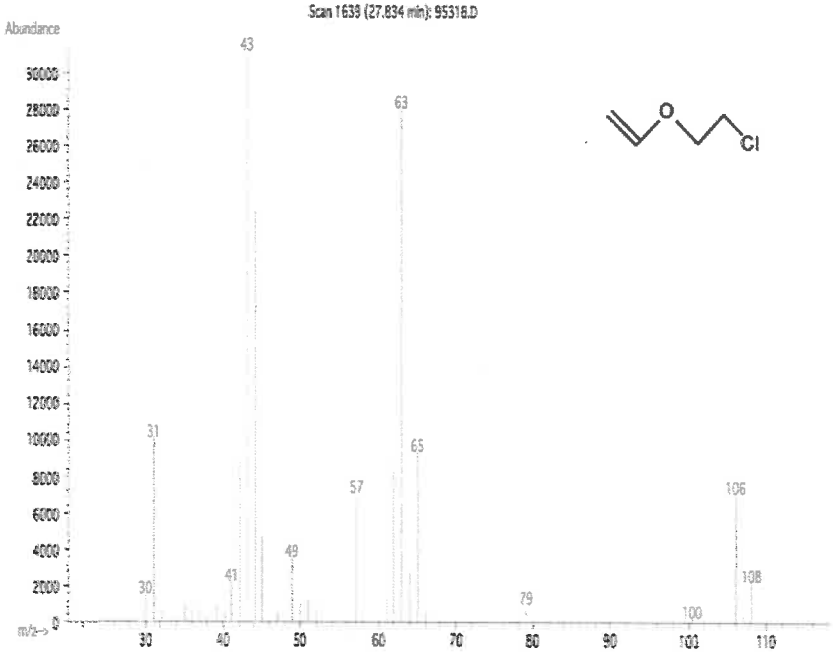
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

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.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	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 certifed (+/-) 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).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

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 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 sheild**
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. 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 (H2O = 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)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

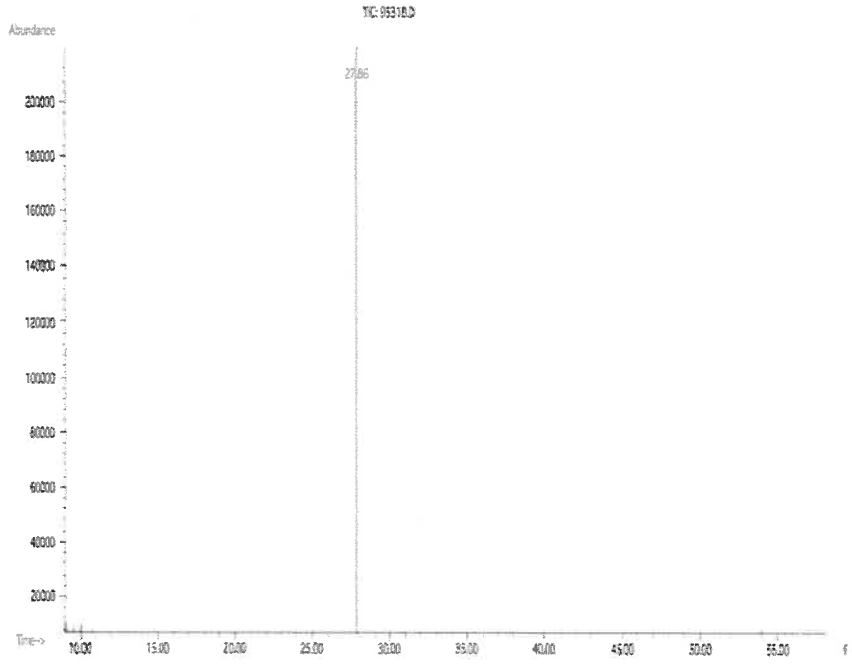
V14630 to V14649

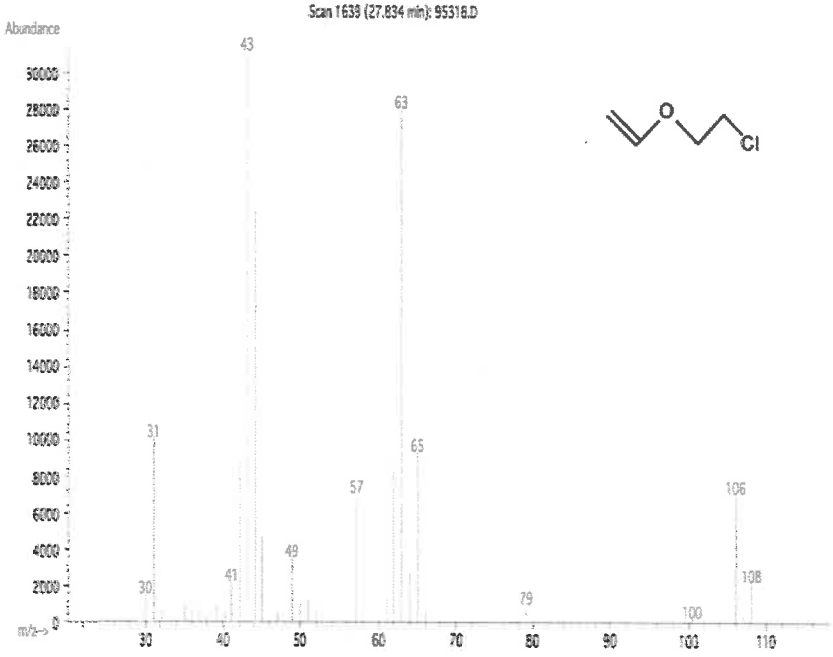
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

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.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	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 certifed (+/-) 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).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

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 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 sheild**
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. 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 (H2O = 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)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.)

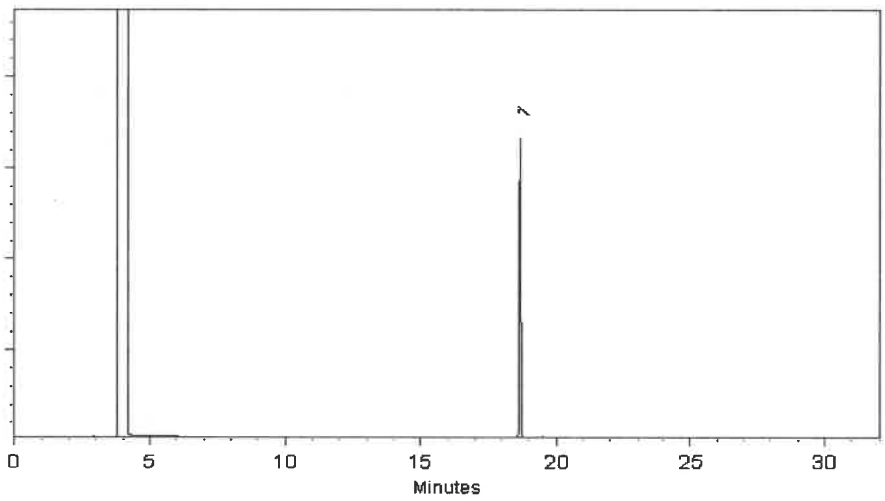
Inj. Temp:
200°C

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.:** A0200785

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 : November 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%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* 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.)

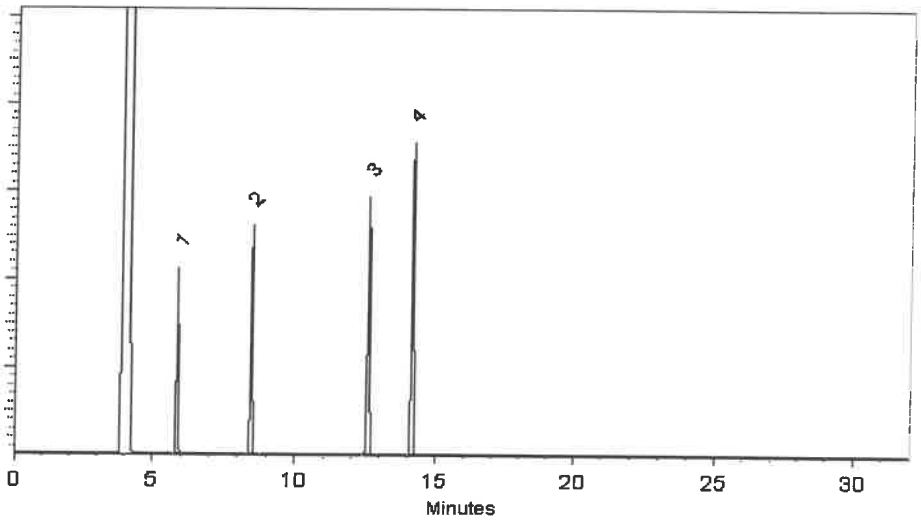
Inj. Temp:
200°C

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.

Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 16-Aug-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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.:** A0200785

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 : November 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%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* 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.)

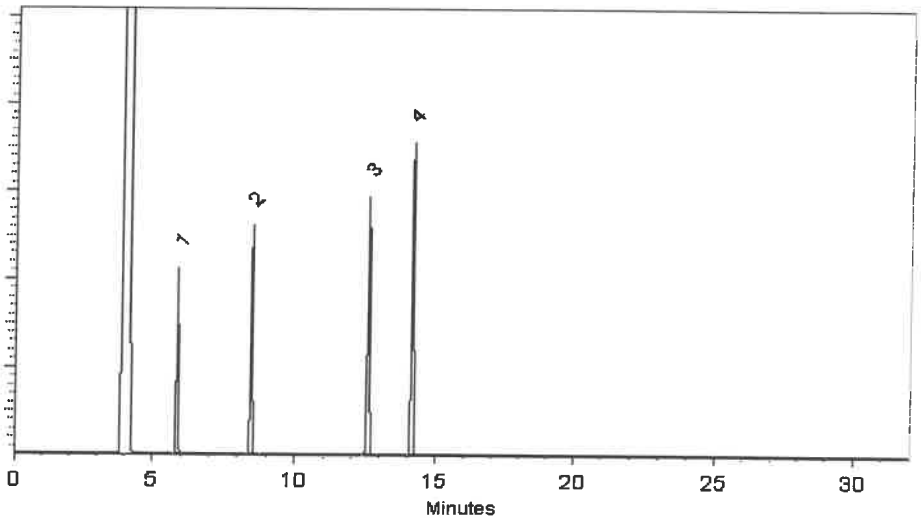
Inj. Temp:
200°C

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.

Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 16-Aug-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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.:** A0200785

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 : November 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%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* 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.)

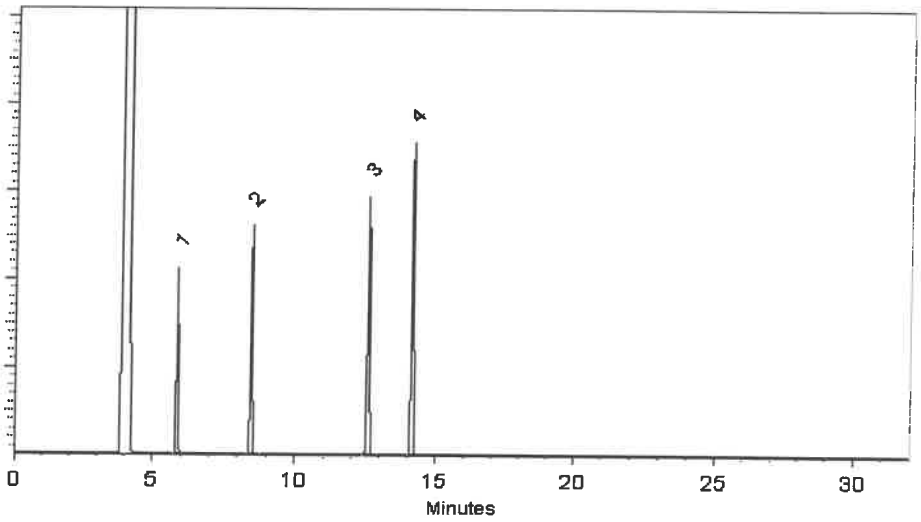
Inj. Temp:
200°C

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.

Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 16-Aug-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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024 **Balance:** 1127510105

REVIEWED

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vial.

CERTIFIED REFERENCE MATERIAL

Dec: 12/09/24

Certificate of Analysis

chromatographic plus

V14667 to
V14676

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 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	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* 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.)

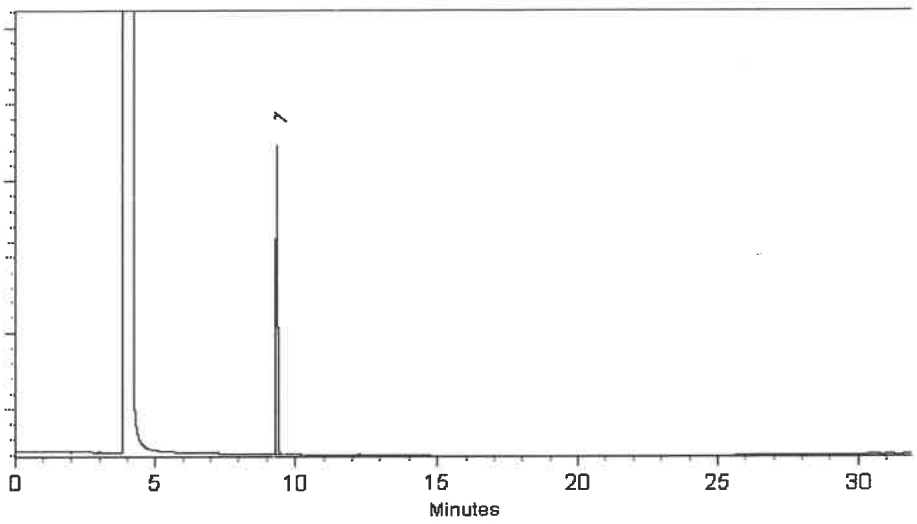
Inj. Temp:
200°C

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.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vial.

CERTIFIED REFERENCE MATERIAL

Dec: 12/09/24

Certificate of Analysis

chromatographic plus

V14667 to
V14676

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 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	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* 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.)

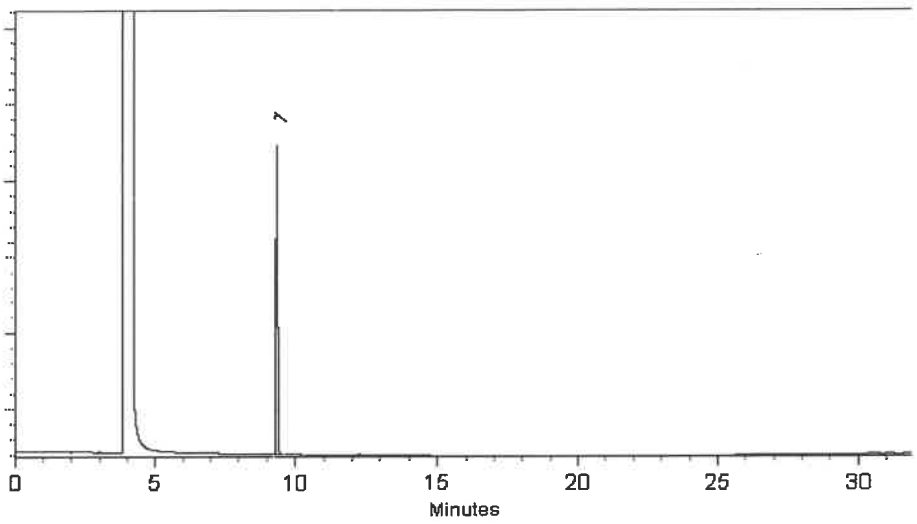
Inj. Temp:
200°C

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.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vial.

CERTIFIED REFERENCE MATERIAL

Dec: 12/09/24

Certificate of Analysis

chromatographic plus

V14667 to
V14676

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 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	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* 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.)

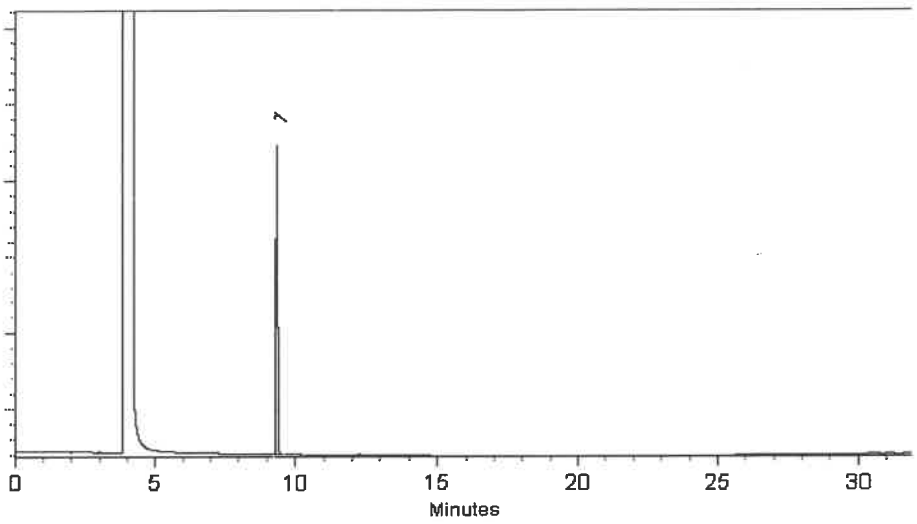
Inj. Temp:
200°C

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.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vial.

CERTIFIED REFERENCE MATERIAL

Dec: 12/09/24

Certificate of Analysis

chromatographic plus

V14667 to
V14676

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 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	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* 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.)

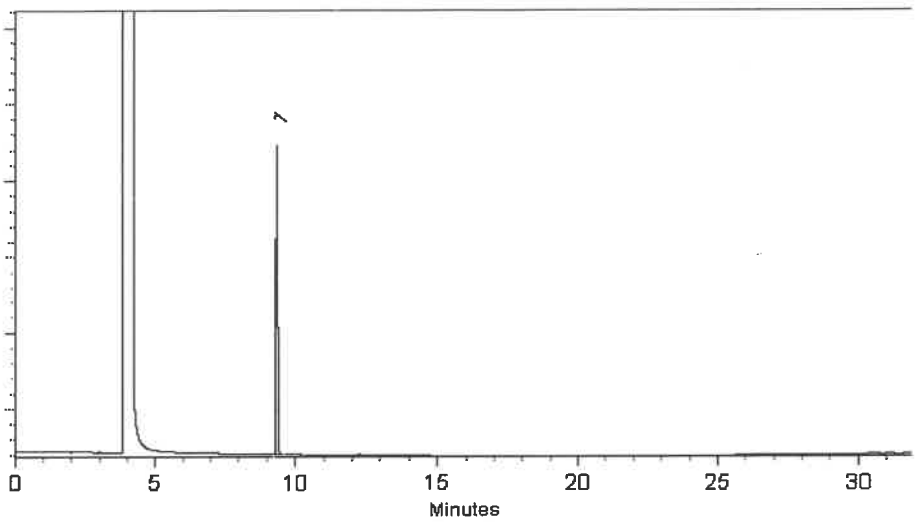
Inj. Temp:
200°C

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.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

Certificate of Analysis

chromatographic plus

V14727 to
V14756

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.

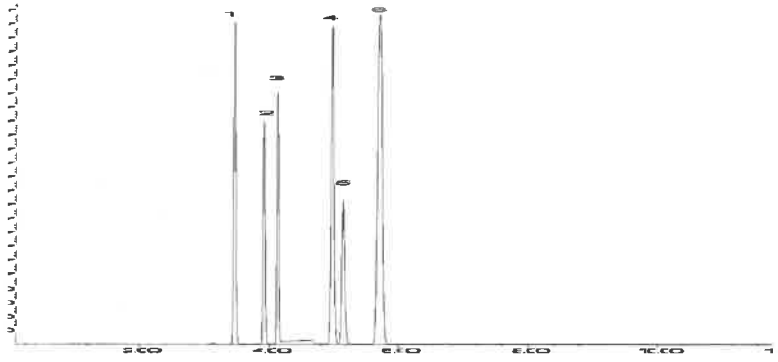
Inj. Temp:
200°C

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 Suckar - 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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

Certificate of Analysis

chromatographic plus

V14727 to
V14756

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.

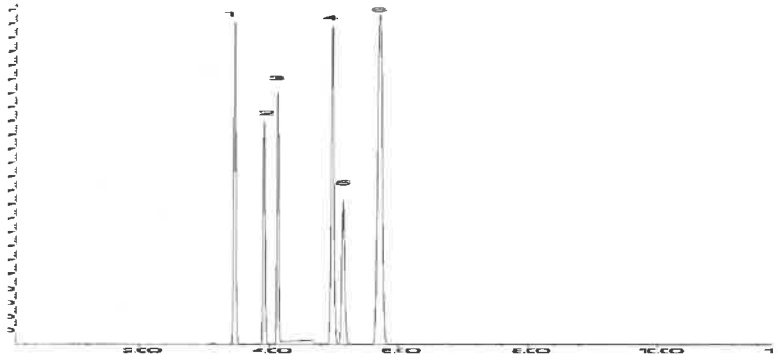
Inj. Temp:
200°C

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 Suckar - 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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

J14842 to 14846

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

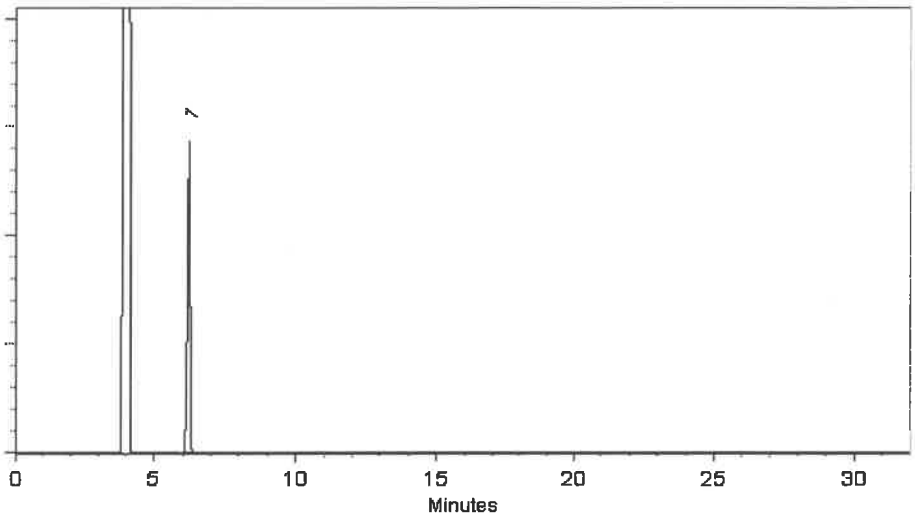
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024 **Balance Serial #** B251644995

Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Zoviy Rec 01/08/21

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.)

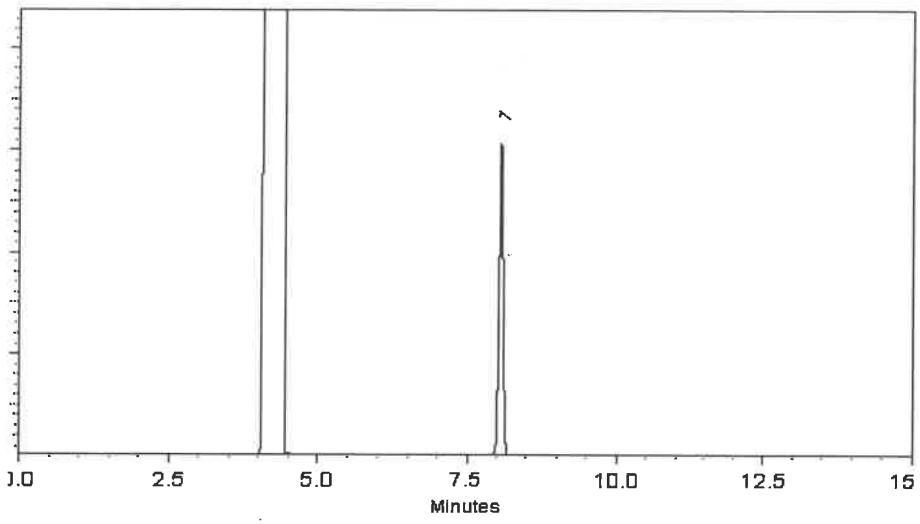
Inj. Temp:
200°C

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

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Zoviy Rec 01/08/21

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.)

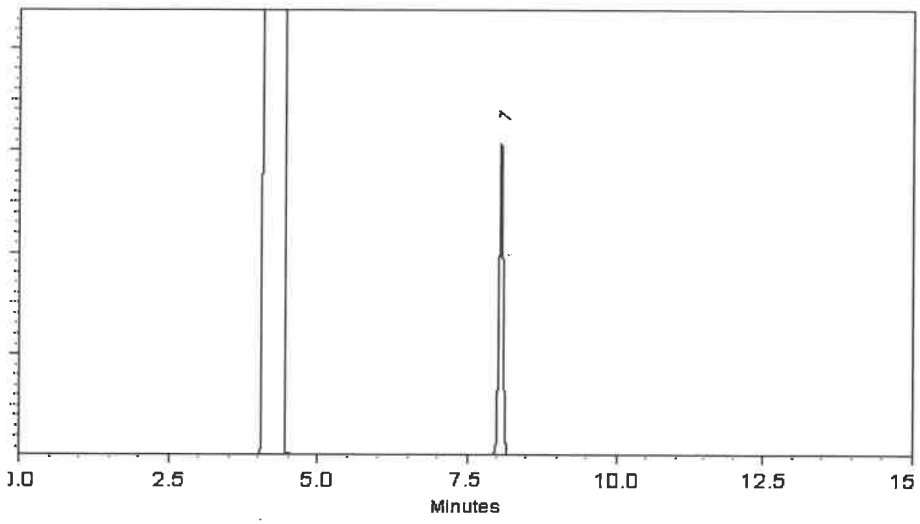
Inj. Temp:
200°C

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

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vial

CERTIFIED REFERENCE MATERIAL

Lee 03/31/25

Certificate of Analysis

gravimetric

V14904 to V14913

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.:** A0223904

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 : March 31, 2028 **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-33313	99%	25,108.0 µg/mL	+/- 1,421.9957
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	25,108.0 µg/mL	+/- 1,421.9957
3	Dibromofluoromethane	1868-53-7	VENKAT02	99%	25,232.0 µg/mL	+/- 1,429.0184
4	Toluene-d8	2037-26-5	PR-34141	99%	25,156.0 µg/mL	+/- 1,424.7141

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Brittany Federinko - Operations Tech I

Date Mixed: 27-Mar-2025 **Balance:** B251644995

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V 14921 to
V 14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable 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

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V 14921 to
V 14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable 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

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Rec 05/19/25

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL
2 x Vial

Certificate of Analysis

chromatographic plus

VJ14951 to VJ14970

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.:** A0222076

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 : August 31, 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	Methyl acetate	79-20-9	SHBR1889	99%	2,004.0 µg/mL	+/- 69.2674
2	Vinyl acetate	108-05-4	RD240423RSR	99%	2,010.0 µg/mL	+/- 69.4748
3	Ethyl acetate	141-78-6	SHBS3323	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,008.0 µg/mL	+/- 69.4057
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBR2024	99%	2,008.0 µg/mL	+/- 69.4057
7	Amyl acetate	628-63-7	BCBT7442	99%	2,006.7 µg/mL	+/- 69.3596

* 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

Rec 05/19/25

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL
2 x Vial

Certificate of Analysis

chromatographic plus

VJ14951 to VJ14970

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.:** A0222076

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 : August 31, 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	Methyl acetate	79-20-9	SHBR1889	99%	2,004.0 µg/mL	+/- 69.2674
2	Vinyl acetate	108-05-4	RD240423RSR	99%	2,010.0 µg/mL	+/- 69.4748
3	Ethyl acetate	141-78-6	SHBS3323	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,008.0 µg/mL	+/- 69.4057
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBR2024	99%	2,008.0 µg/mL	+/- 69.4057
7	Amyl acetate	628-63-7	BCBT7442	99%	2,006.7 µg/mL	+/- 69.3596

* 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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 10/16/25 5 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 101625
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

Expiration Date: 111625
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

V15071 – V15075

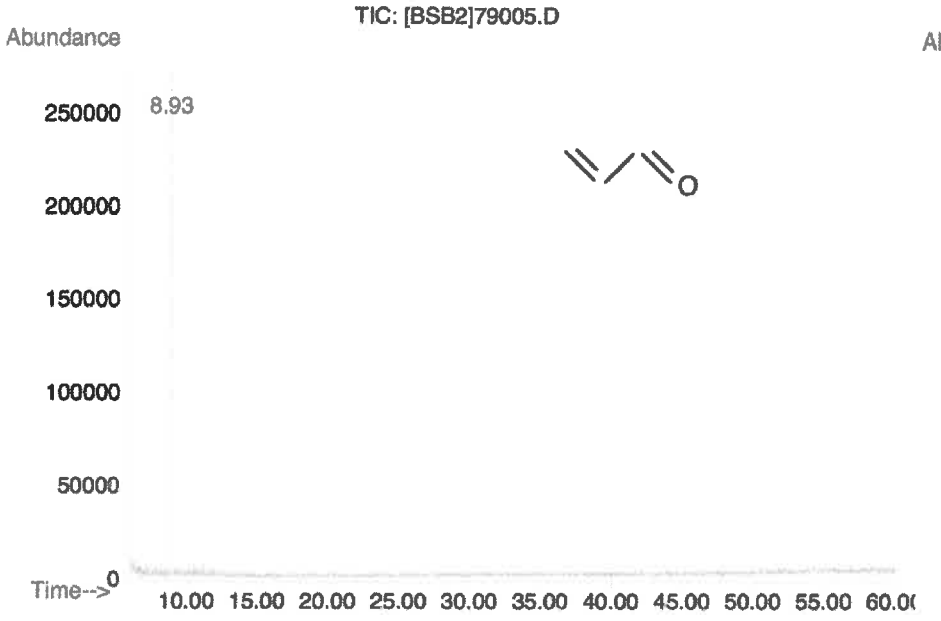
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

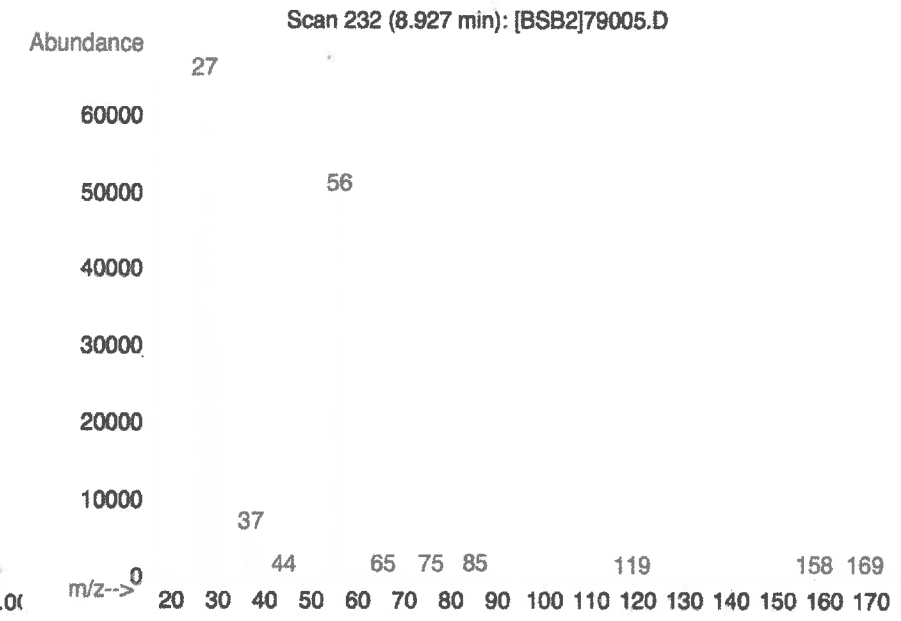
Weight(s) shown below were combined and diluted to (mL): 10.0

Prashant Chauhan		101625
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas		101625
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. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05180	5013.7	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (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. Goverament Printing Office, Washington, DC, (1994).**
  Rev 1.0, 2/25/2025

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 10/16/25 5 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 101625
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

Expiration Date: 111625
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

V15071 – V15075

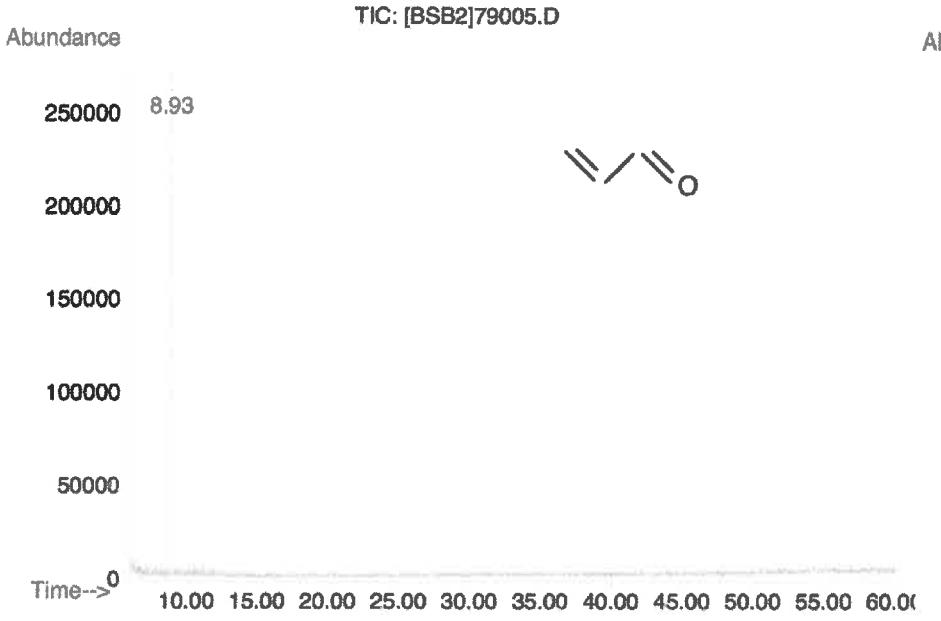
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

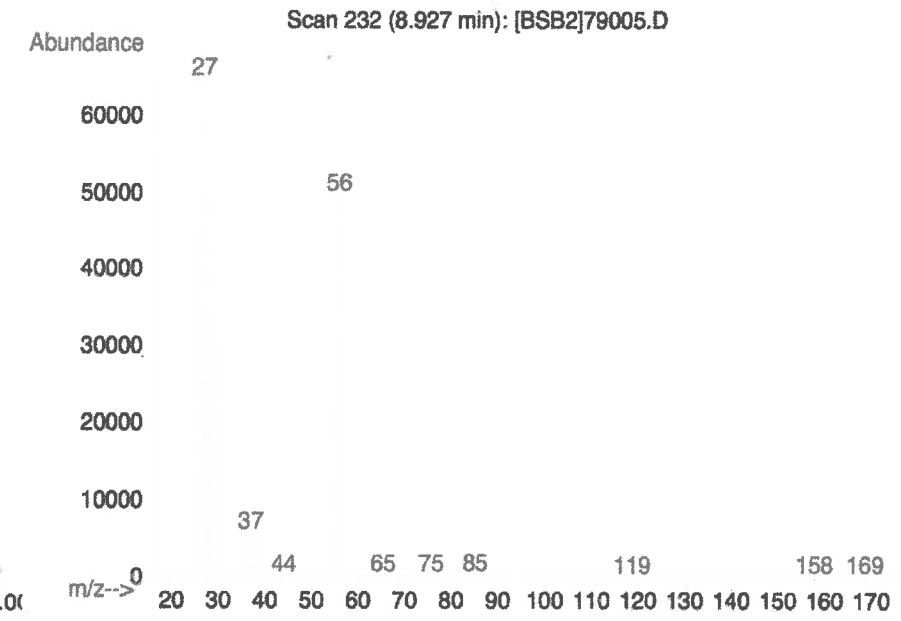
Weight(s) shown below were combined and diluted to (mL): 10.0

Prashant Chauhan		101625
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas		101625
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. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05180	5013.7	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (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. Goverament Printing Office, Washington, DC, (1994).**
  Rev 1.0, 2/25/2025

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 10/16/25 5 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 101625
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

Expiration Date: 111625
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

V15071 – V15075

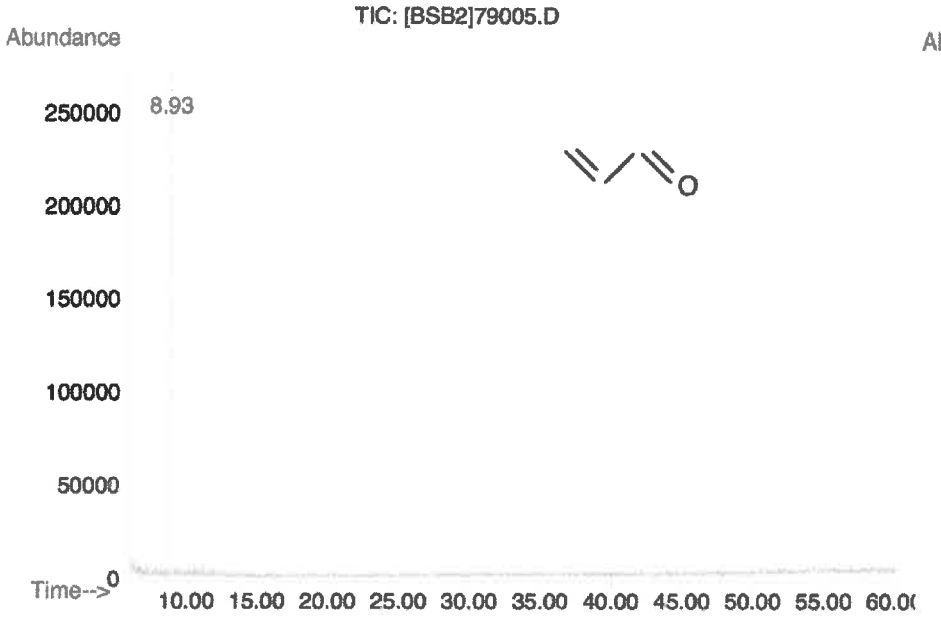
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

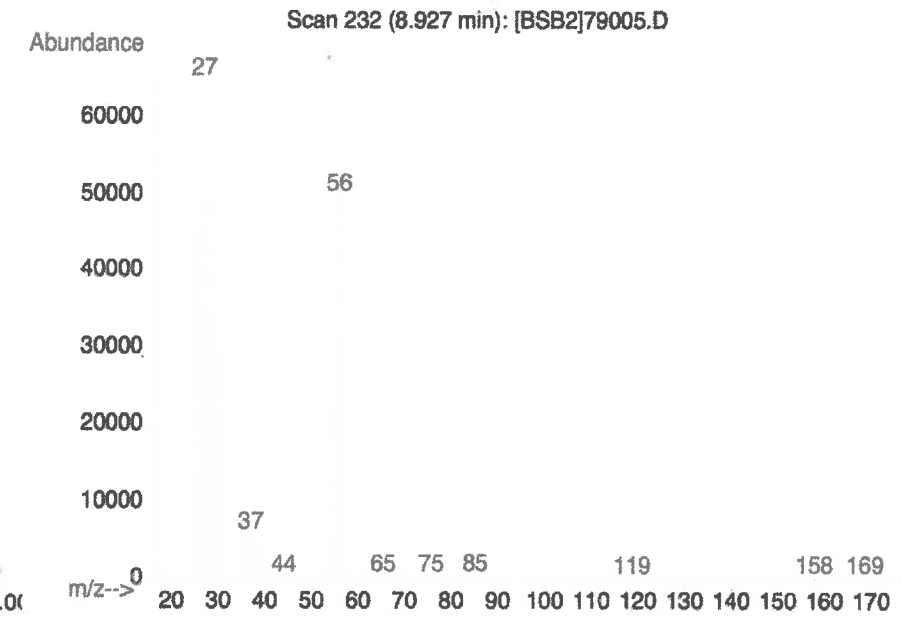
Weight(s) shown below were combined and diluted to (mL): 10.0

Prashant Chauhan		101625
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas		101625
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. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05180	5013.7	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (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. Goverament Printing Office, Washington, DC, (1994).**
  Rev 1.0, 2/25/2025

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: Q3371/72

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-184	ADDRESS:	
CITY: Virginia Beach	STATE: VA	ZIP: 23462	PROJECT MANAGER: Ernie Wu		CITY:	STATE: ZIP:
ATTENTION: Ernie Wu			E-MAIL: ernie.wu@tetratech.com		ATTENTION:	PHONE:
PHONE: 757-466-4901	FAX: 757-461-4148		PHONE: 757-466-4901	FAX: 757-461-4148		

DATA TURNAROUND INFORMATION

FAX: 2 & 10 DAYS*
HARD COPY: 2 & 10 DAYS*
EDD 2 & 10 DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESEULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other
- ☐ EDD Format

ANALYSIS

	1	2	3	4	5	6	7	8	9
	VOC(SW846-8260B)	1,4 Dioxane (8270 SIM)	522_PREC						
PRESERVATIVES	A								

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	1	2	3	4	5	6	7	8	9	COMMENTS
1.	BP-VPB-184-TB-20251010	QA		X	10/10/25	9:00	2	2									Trip Blank
2.	BP-VPB-184-EB-20251016	QA		X	10/16/25	9:00	3	2	1								Equipment Blank
3.	VPB184-HYD-20251010	AQ		X	10/10/25	14:00	5	2	1	2							
4.	BP-VPB-184-GW-915-917	AQ		X	10/15/25	9:45	3	3									
5.	BP-VPB-184-GW-920-922	AQ		X	10/15/25	11:56	4	3	1								
6.	VPB184-HYD-20251016	AQ		X	10/16/25	14:30	5	2	1	2							
7.																	
8.																	
9.																	
10.																	

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

	RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1.		10/16/25 1340	1.
2.	RELINQUISHED BY	DATE/TIME	RECEIVED BY 2.
3.	RELINQUISHED BY	DATE/TIME 10.16.25 1840	RECEIVED FOR LAB BY 3.

Conditions of bottles or coolers at receipt: q Compliant q Non Compliant q Cooler Temp 1.9c
MeOH extraction requires an additional 4oz. Jar for percent solid q Ice in
Cooler?:
Comments: 2 Day TAT - For VOC's see worksheet #15 of SAP 2018 for VPB program VOC list
10-DAY TAT - For 1,4 Dioxane (8270 SIM)

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
CHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPYFOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

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

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3371 TETR06
Client Name : Tetra Tech NUS, Inc.
Client Contact : Ernie Wu
Invoice Name : Tetra Tech NUS, Inc.
Invoice Contact : Ernie Wu

Order Date : 10/16/2025 4:13:00 PM
Project Name : NWIRP Bethpage 112G080
Receive DateTime : 10/16/2025 6:40:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : ADAPT
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3371-01	BP-VPB-184-TB-20251010	Water	10/10/2025	09:00					
					VOC-TCLVOA-10		8260-Low		2 Bus. Days
Q3371-02	BP-VPB-184-EB-20251016	Water	10/16/2025	09:00					
					VOC-TCLVOA-10		8260-Low		2 Bus. Days
Q3371-03	VPB184-HYD-20251010	Water	10/10/2025	14:00					
					VOC-TCLVOA-10		8260-Low		2 Bus. Days
Q3371-04	BP-VPB-184-GW-915-917	Water	10/15/2025	09:45					
					VOC-TCLVOA-10		8260-Low		2 Bus. Days
Q3371-05	BP-VPB-184-GW-920-922	Water	10/15/2025	11:56					
					VOC-TCLVOA-10		8260-Low		2 Bus. Days
Q3371-06	VPB184-HYD-20251016	Water	10/16/2025	14:30					
					VOC-TCLVOA-10		8260-Low		2 Bus. Days

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3371 TETR06
Client Name : Tetra Tech NUS, Inc.
Client Contact : Ernie Wu
Invoice Name : Tetra Tech NUS, Inc.
Invoice Contact : Ernie Wu

Order Date : 10/16/2025 4:13:00 PM
Project Name : NWIRP Bethpage 112G080
Receive DateTime : 10/16/2025 6:40:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : ADAPT
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinguished By : CL
Date / Time : 10/17/25 1335

Received By : Sam
Date / Time : 10/17/25 13:35 Rg # 4

Storage Area : VOA Refridgerator Room

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048229.D
Acq On : 20 Oct 2025 10:59
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : VSTDICC001

Quant Time: Oct 25 03:47:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.544	168	117157	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.745	114	193186	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.037	117	177252	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	86943	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.952	65	3362	2.047	ug/l		0.01
Spiked Amount 50.000	Range 78 - 117		Recovery =	4.100%#			
35) Dibromofluoromethane	5.379	113	2615	1.983	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	3.960%#			
50) Toluene-d8	8.635	98	8676	1.877	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	3.760%#			
62) 4-Bromofluorobenzene	11.067	95	3491	1.985	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	3.980%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.173	85	1223	1.015	ug/l		82
3) Chloromethane	1.301	50	1186	1.055	ug/l	#	62
4) Vinyl Chloride	1.380	62	1048	1.007	ug/l		92
5) Bromomethane	1.618	94	1028	1.455	ug/l		100
6) Chloroethane	1.697	64	545	0.891	ug/l		91
7) Trichlorofluoromethane	1.898	101	1819	0.911	ug/l		98
8) Diethyl Ether	2.142	74	542	0.965	ug/l		81
9) 1,1,2-Trichlorotrifluo...	2.337	101	1199	0.948	ug/l		89
10) Methyl Iodide	2.459	142	1847	1.162	ug/l		99
11) Tert butyl alcohol	2.953	59	839	5.144	ug/l	#	72
12) 1,1-Dichloroethene	2.325	96	1207	0.981	ug/l		88
13) Acrolein	2.246	56	780	4.689	ug/l		99
14) Allyl chloride	2.666	41	2101	1.029	ug/l		96
15) Acrylonitrile	3.069	53	2984	5.074	ug/l		97
16) Acetone	2.380	43	3519	6.245	ug/l		98
17) Carbon Disulfide	2.520	76	4767	1.230	ug/l	#	92
18) Methyl Acetate	2.703	43	1204	1.023	ug/l	#	85
19) Methyl tert-butyl Ether	3.111	73	4437	1.057	ug/l		100
20) Methylene Chloride	2.794	84	1301	0.948	ug/l	#	76
21) trans-1,2-Dichloroethene	3.099	96	1376	1.018	ug/l		96
22) Diisopropyl ether	3.745	45	3977	0.976	ug/l	#	26
23) Vinyl Acetate	3.727	43	14769	4.539	ug/l		95
24) 1,1-Dichloroethane	3.611	63	2615	1.062	ug/l		97
25) 2-Butanone	4.574	43	3638	5.100	ug/l		98
26) 2,2-Dichloropropane	4.465	77	2347	1.056	ug/l		84
27) cis-1,2-Dichloroethene	4.489	96	1598	1.013	ug/l		94
28) Bromochloromethane	4.879	49	908	0.889	ug/l	#	69
29) Tetrahydrofuran	5.007	42	2088	4.888	ug/l	#	73
30) Chloroform	5.093	83	2688	1.022	ug/l		97
31) Cyclohexane	5.465	56	1796	0.881	ug/l	#	69
32) 1,1,1-Trichloroethane	5.379	97	2459	1.014	ug/l	#	50
36) 1,1-Dichloropropene	5.696	75	2173	1.159	ug/l	#	62
37) Ethyl Acetate	4.727	43	1285	0.827	ug/l	#	82
38) Carbon Tetrachloride	5.660	117	802	0.347	ug/l	#	77
39) Methylcyclohexane	7.373	83	2128	0.961	ug/l		94
40) Benzene	6.032	78	5767	1.060	ug/l	#	89

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048229.D
Acq On : 20 Oct 2025 10:59
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Oct 25 03:47:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.916	41	312	0.382 ug/l #	67
42) 1,2-Dichloroethane	6.080	62	2044	1.018 ug/l	87
43) Isopropyl Acetate	6.336	43	2548	0.998 ug/l #	85
44) Trichloroethene	7.117	130	1547	1.076 ug/l	83
45) 1,2-Dichloropropane	7.422	63	1195	0.924 ug/l	96
46) Dibromomethane	7.574	93	1032	1.024 ug/l	95
47) Bromodichloromethane	7.812	83	2204	1.013 ug/l #	79
48) Methyl methacrylate	7.684	41	1283	0.996 ug/l	95
49) 1,4-Dioxane	7.665	88	255	14.987 ug/l #	34
51) 4-Methyl-2-Pentanone	8.562	43	7066	4.802 ug/l	91
52) Toluene	8.708	92	3403	0.984 ug/l	95
53) t-1,3-Dichloropropene	8.970	75	1844	0.879 ug/l #	74
54) cis-1,3-Dichloropropene	8.360	75	2250	0.994 ug/l	90
55) 1,1,2-Trichloroethane	9.147	97	1229	0.956 ug/l #	85
56) Ethyl methacrylate	9.104	69	1616	0.859 ug/l	96
57) 1,3-Dichloropropane	9.299	76	2174	0.990 ug/l	93
58) 2-Chloroethyl Vinyl ether	8.232	63	2970	4.614 ug/l	100
59) 2-Hexanone	9.421	43	4456	4.343 ug/l	92
60) Dibromochloromethane	9.507	129	1862	1.077 ug/l	95
61) 1,2-Dibromoethane	9.598	107	1338	0.976 ug/l	98
64) Tetrachloroethene	9.257	164	1482	1.120 ug/l	92
65) Chlorobenzene	10.067	112	4073	1.021 ug/l	90
66) 1,1,1,2-Tetrachloroethane	10.147	131	1495	1.021 ug/l #	66
67) Ethyl Benzene	10.177	91	6752	0.995 ug/l	97
68) m/p-Xylenes	10.287	106	4589	1.819 ug/l	90
69) o-Xylene	10.628	106	2313	0.950 ug/l	99
70) Styrene	10.640	104	3737	0.901 ug/l	96
71) Bromoform	10.787	173	1198	1.023 ug/l #	99
73) Isopropylbenzene	10.945	105	6291	0.991 ug/l	93
74) N-amyl acetate	10.829	43	2137	0.949 ug/l #	90
75) 1,1,2,2-Tetrachloroethane	11.195	83	1718	0.991 ug/l	90
76) 1,2,3-Trichloropropane	11.220	75	2073	1.470 ug/l	79
77) Bromobenzene	11.183	156	1635	1.027 ug/l	91
78) n-propylbenzene	11.287	91	6956	0.946 ug/l	94
79) 2-Chlorotoluene	11.348	91	4477	1.004 ug/l	97
80) 1,3,5-Trimethylbenzene	11.433	105	5196	0.989 ug/l	97
81) trans-1,4-Dichloro-2-b...	11.006	75	387	0.668 ug/l #	75
82) 4-Chlorotoluene	11.439	91	5385	1.018 ug/l	99
83) tert-Butylbenzene	11.695	119	5439	1.007 ug/l	91
84) 1,2,4-Trimethylbenzene	11.738	105	4854	0.926 ug/l	99
85) sec-Butylbenzene	11.872	105	6589	1.014 ug/l	99
86) p-Isopropyltoluene	11.994	119	5812	1.035 ug/l	91
87) 1,3-Dichlorobenzene	11.951	146	3239	1.079 ug/l	96
88) 1,4-Dichlorobenzene	11.951	146	3239	1.042 ug/l	96
89) n-Butylbenzene	12.317	91	5787	1.132 ug/l	98
90) Hexachloroethane	12.518	117	1182	1.066 ug/l	77
91) 1,2-Dichlorobenzene	12.317	146	3135	1.112 ug/l	96
92) 1,2-Dibromo-3-Chloropr...	12.933	75	290	0.824 ug/l	79
93) 1,2,4-Trichlorobenzene	13.573	180	2505	1.314 ug/l	90
94) Hexachlorobutadiene	13.707	225	1658	2.385 ug/l	97
95) Naphthalene	13.762	128	5116	1.013 ug/l	98
96) 1,2,3-Trichlorobenzene	13.945	180	2006	1.147 ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048229.D
Acq On : 20 Oct 2025 10:59
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Oct 25 03:47:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

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

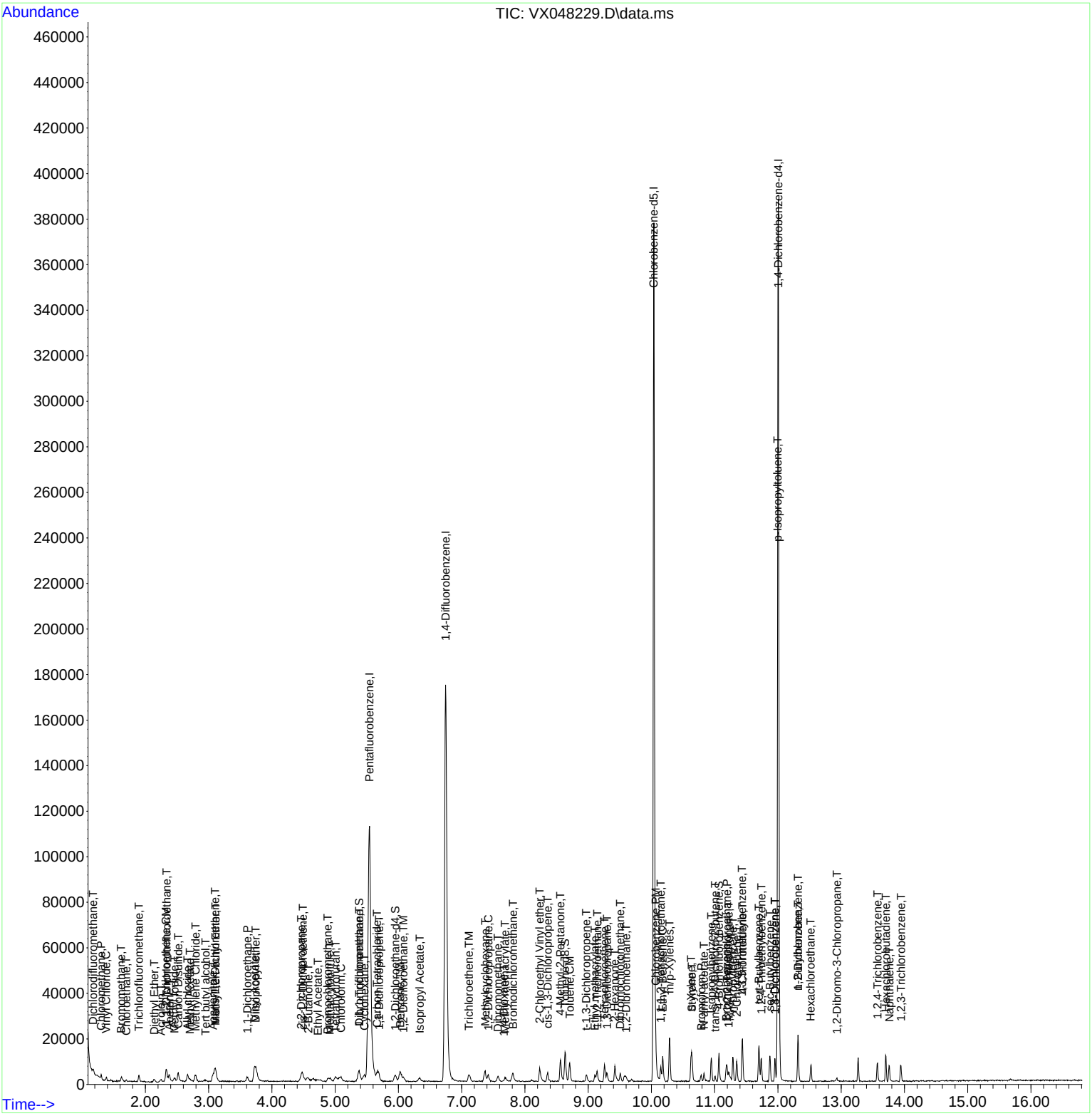
(#) = qualifier out of range (m) = manual integration (+) = signals summed

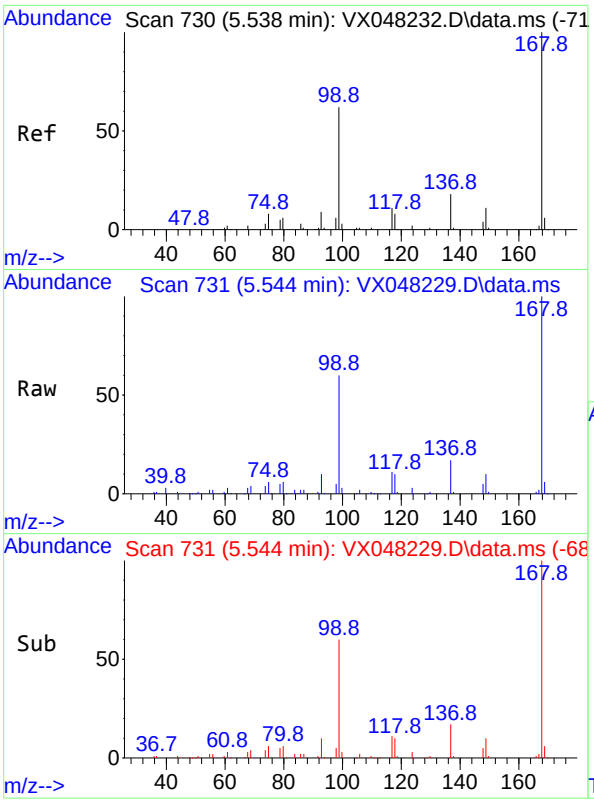
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048229.D
Acq On : 20 Oct 2025 10:59
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Oct 25 03:47:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration



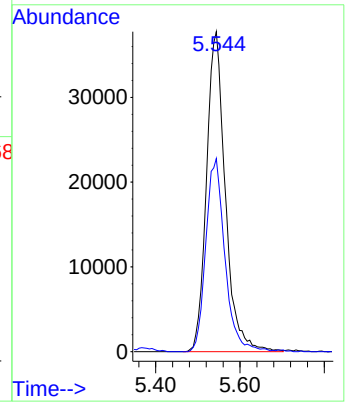


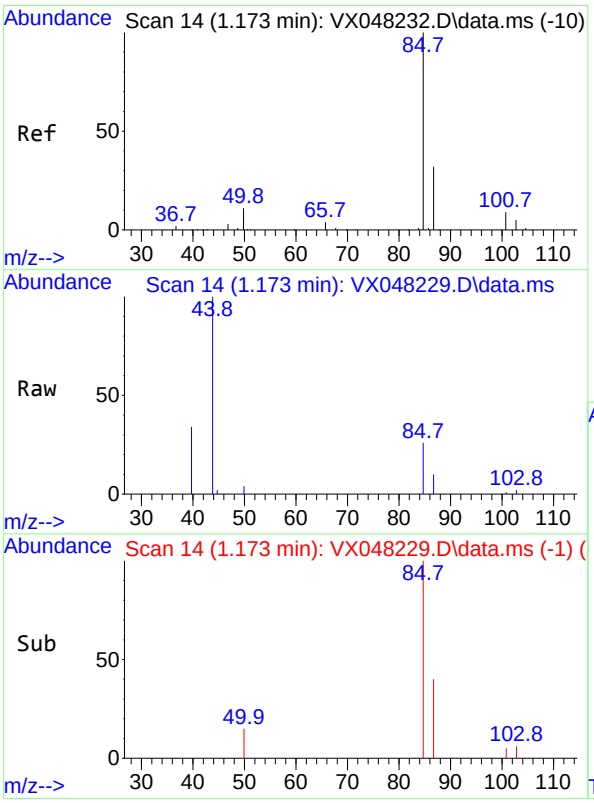
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:168 Resp: 117157

Ion	Ratio	Lower	Upper
168	100		
99	60.3	46.4	69.6

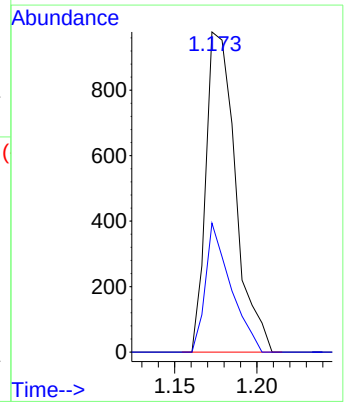


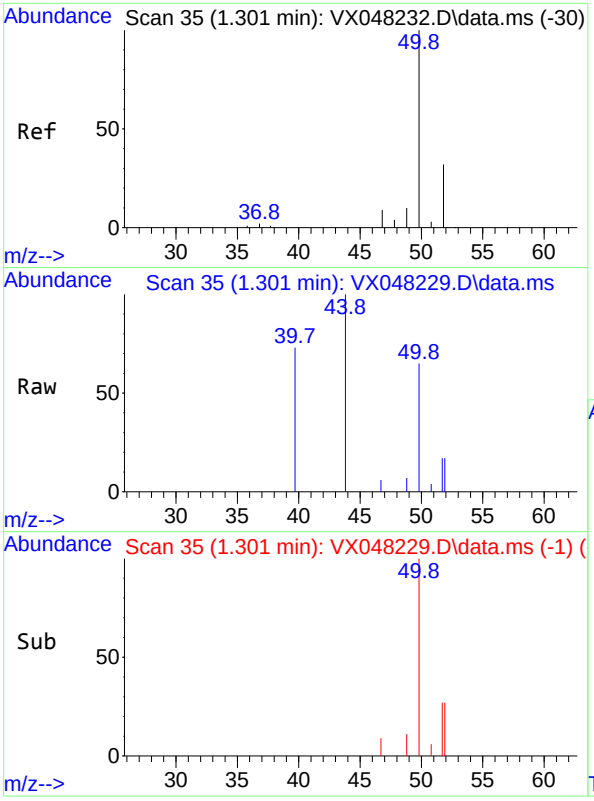


#2
Dichlorodifluoromethane
Concen: 1.015 ug/l
RT: 1.173 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 85 Resp: 1223

Ion	Ratio	Lower	Upper
85	100		
87	40.3	15.3	45.9



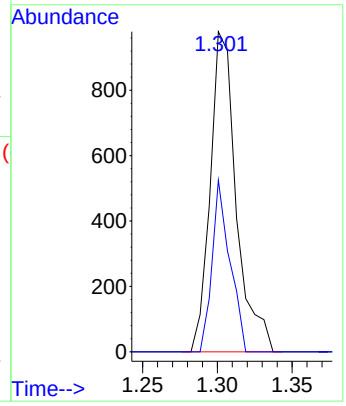


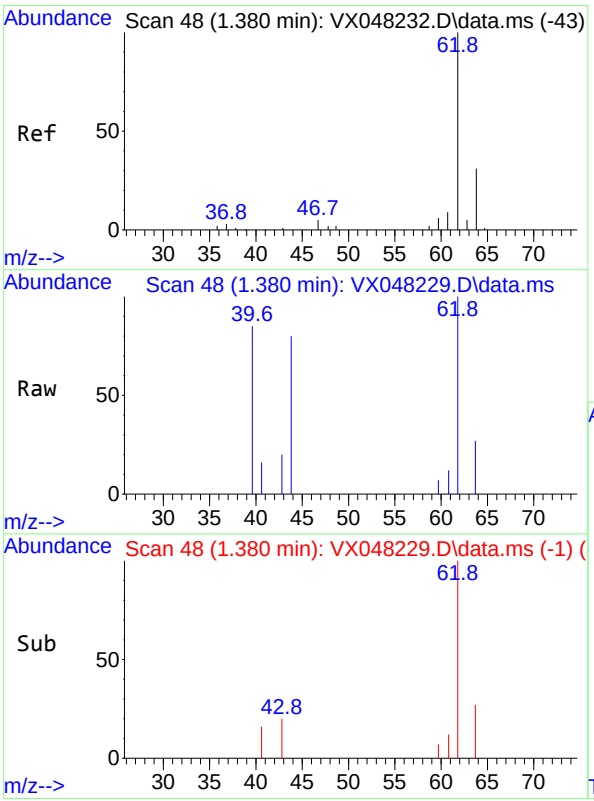
#3
Chloromethane
Concen: 1.055 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 50 Resp: 1186

Ion	Ratio	Lower	Upper
50	100		
52	53.6	25.9	38.9#

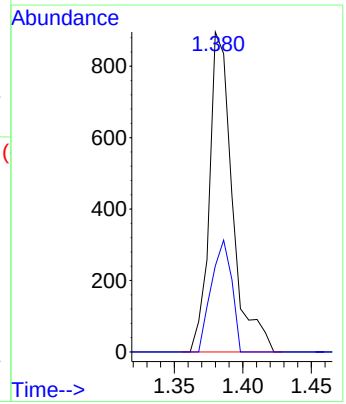


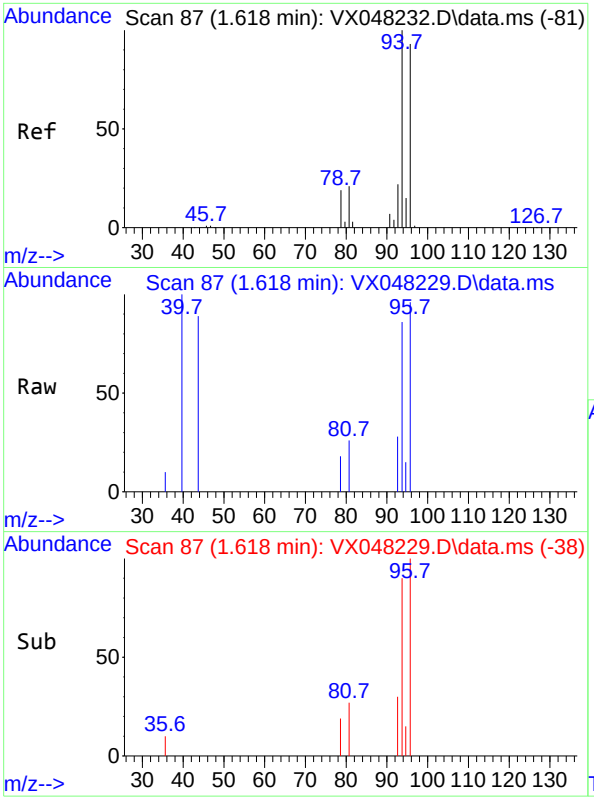


#4
Vinyl Chloride
Concen: 1.007 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 62 Resp: 1048

Ion	Ratio	Lower	Upper
62	100		
64	26.9	25.1	37.7



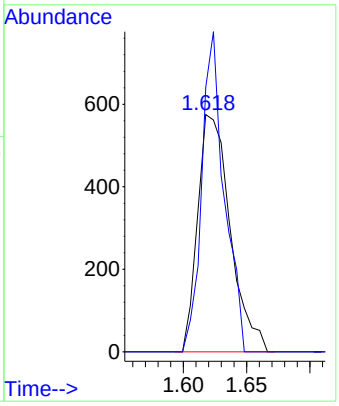


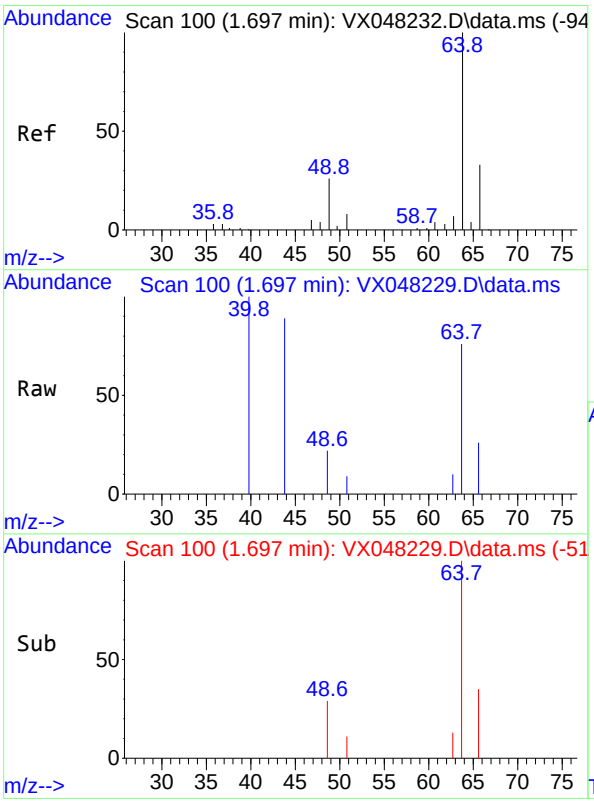
#5
Bromomethane
Concen: 1.455 ug/l
RT: 1.618 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 94 Resp: 1028

Ion	Ratio	Lower	Upper
94	100		
96	95.4	76.0	114.0

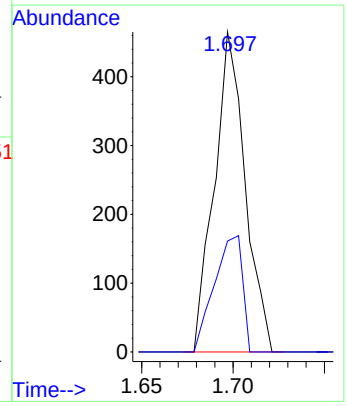


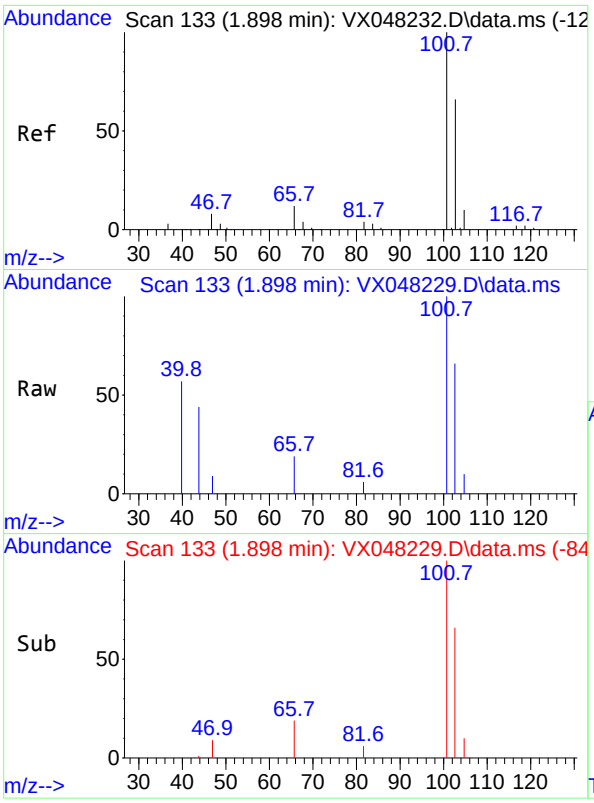


#6
Chloroethane
Concen: 0.891 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 64 Resp: 545

Ion	Ratio	Lower	Upper
64	100		
66	34.6	23.9	35.9



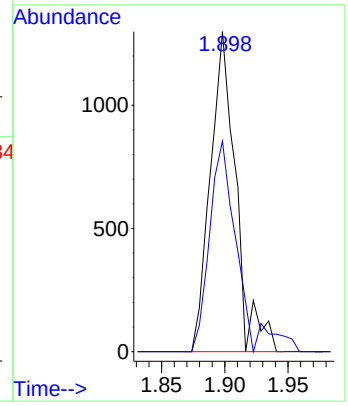


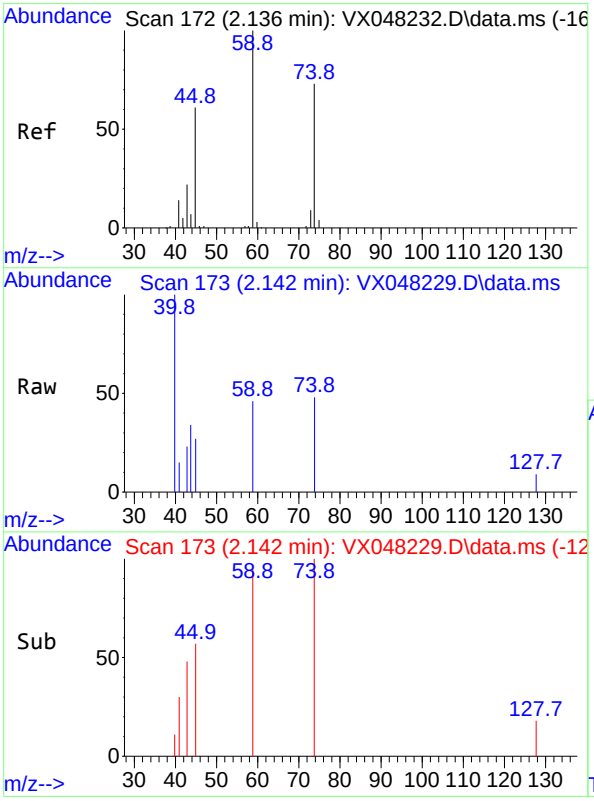
#7
Trichlorofluoromethane
Concen: 0.911 ug/l
RT: 1.898 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 1819

Ion	Ratio	Lower	Upper
101	100		
103	65.8	51.6	77.4

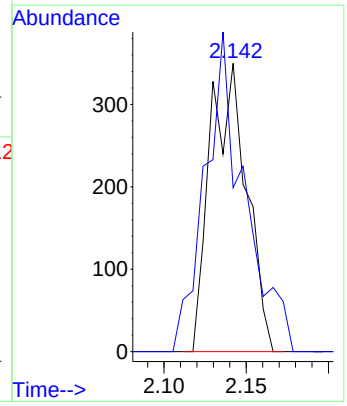


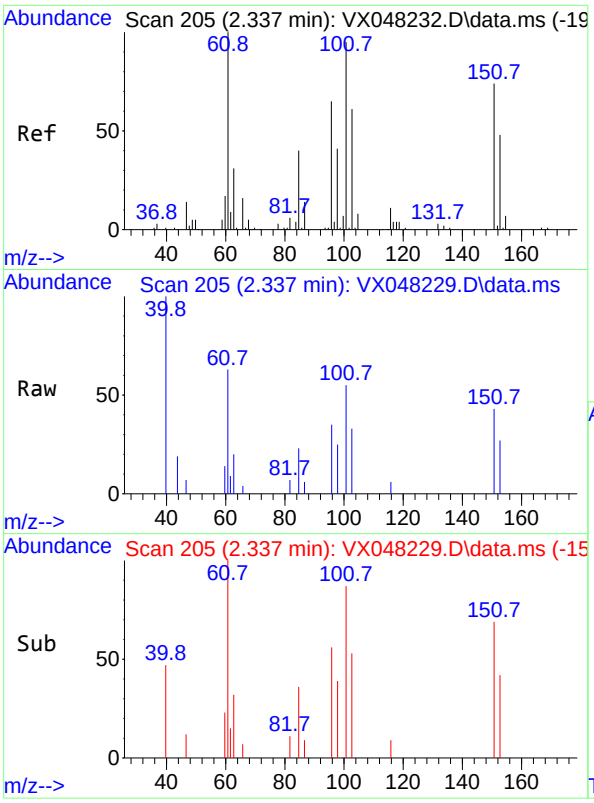


#8
Diethyl Ether
Concen: 0.965 ug/l
RT: 2.142 min Scan# 173
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 74 Resp: 542

Ion	Ratio	Lower	Upper
74	100		
45	118.5	50.0	149.8



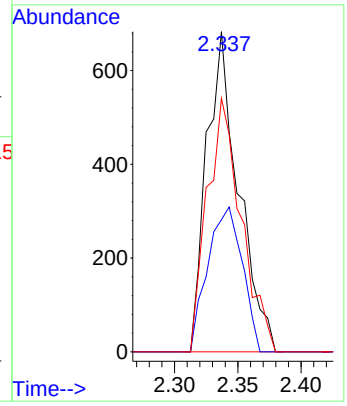


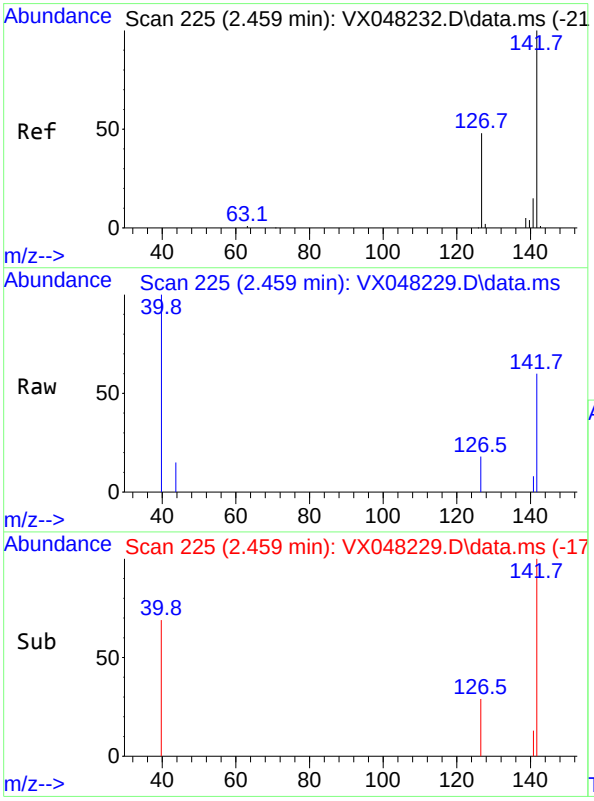
#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.948 ug/l
RT: 2.337 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 1199

Ion	Ratio	Lower	Upper
101	100		
85	48.9	35.6	53.4
151	84.2	58.0	87.0

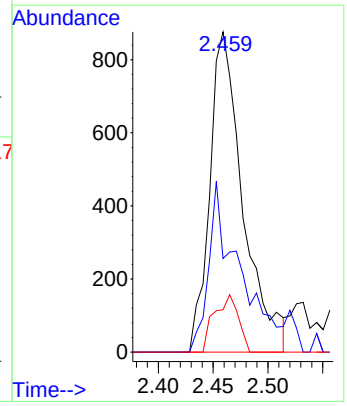


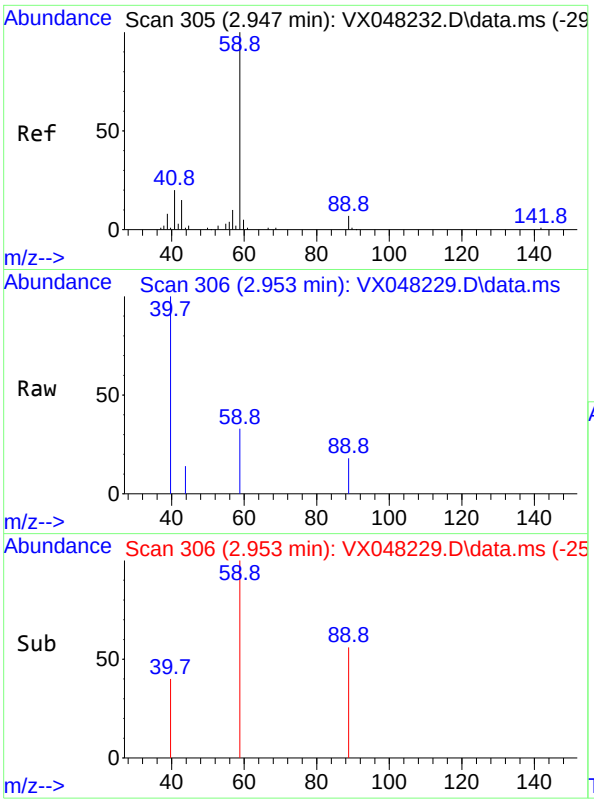


#10
Methyl Iodide
Concen: 1.162 ug/l
RT: 2.459 min Scan# 225
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:142 Resp: 1847

Ion	Ratio	Lower	Upper
142	100		
127	48.5	38.5	57.7
141	12.9	11.6	17.4



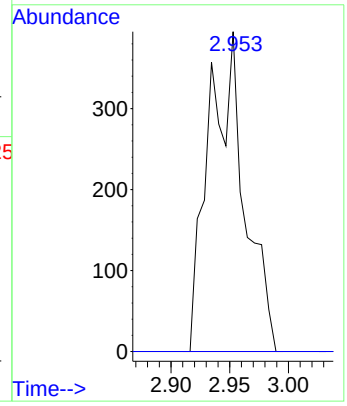


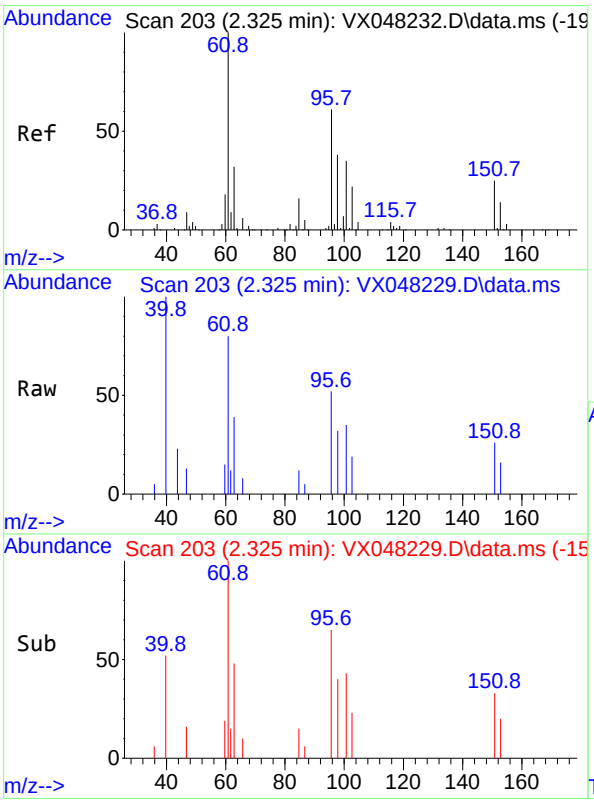
#11
Tert butyl alcohol
Concen: 5.144 ug/l
RT: 2.953 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 59 Resp: 839

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.4#

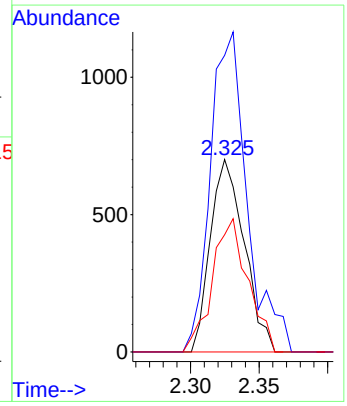


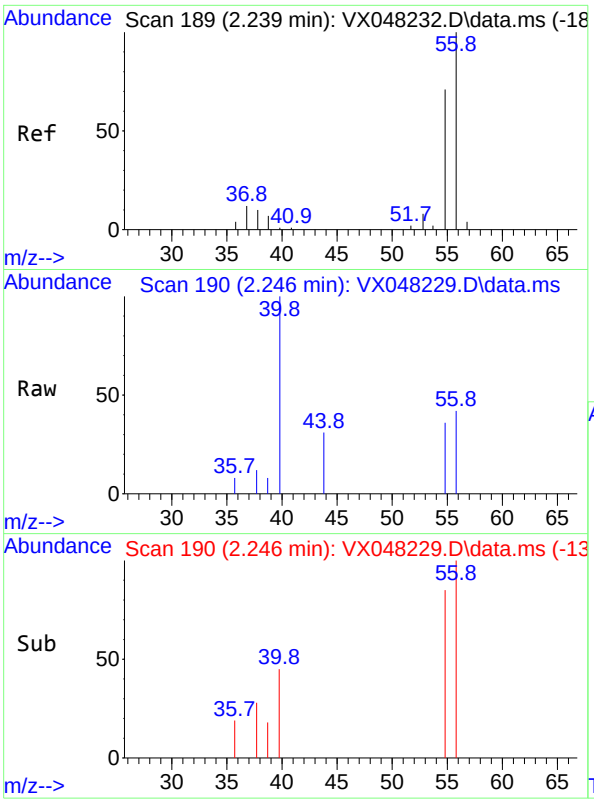


#12
1,1-Dichloroethene
Concen: 0.981 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 96 Resp: 1207

Ion	Ratio	Lower	Upper
96	100		
61	154.1	139.0	208.6
98	60.9	52.4	78.6



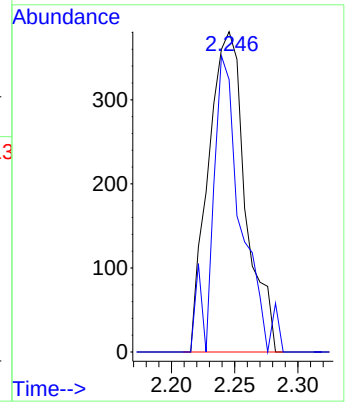


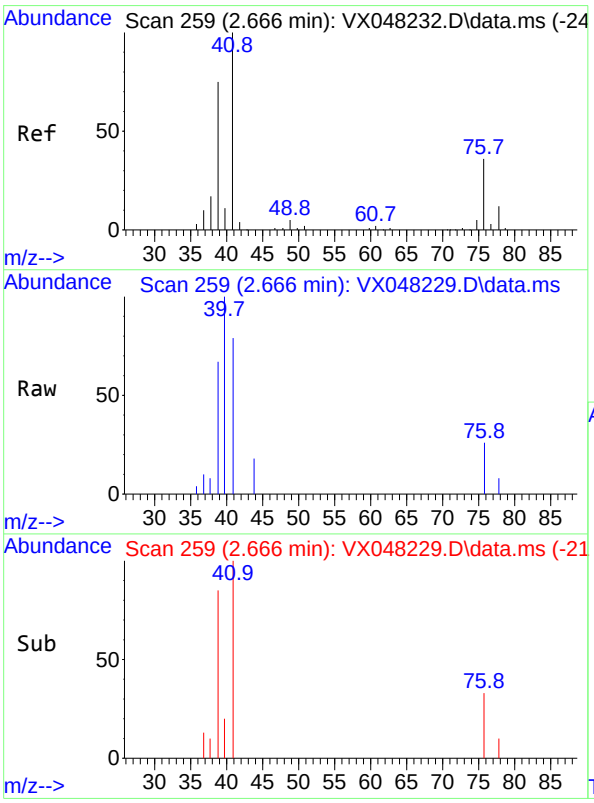
#13
Acrolein
Concen: 4.689 ug/l
RT: 2.246 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 56 Resp: 780

Ion	Ratio	Lower	Upper
56	100		
55	71.0	56.1	84.1

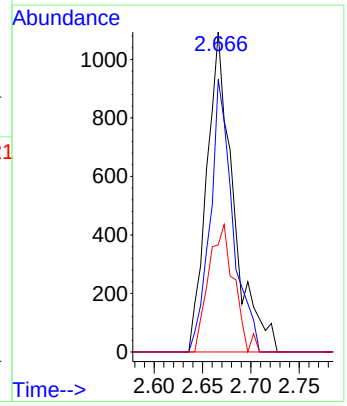


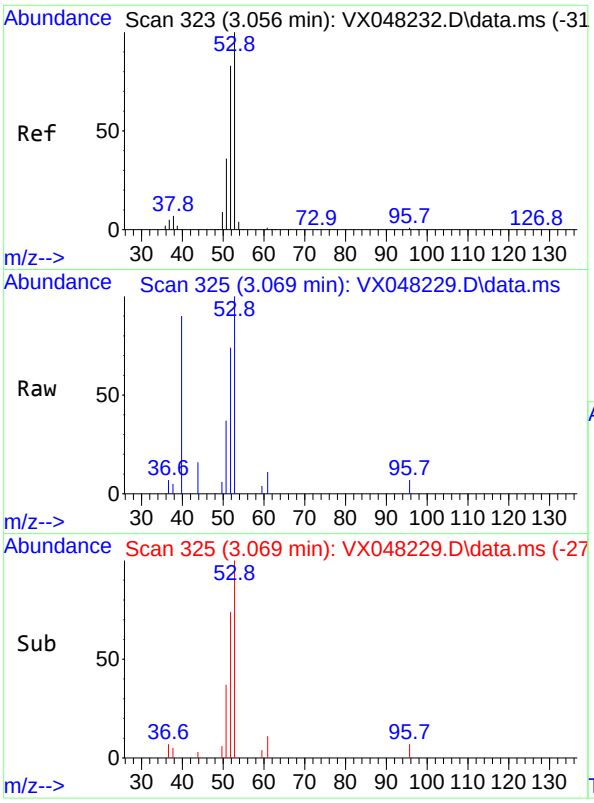


#14
Allyl chloride
Concen: 1.029 ug/l
RT: 2.666 min Scan# 259
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 41 Resp: 2101

Ion	Ratio	Lower	Upper
41	100		
39	72.1	56.0	84.0
76	37.8	27.5	41.3



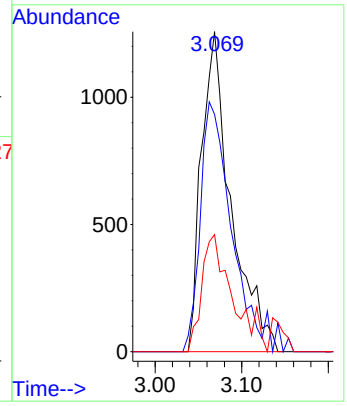


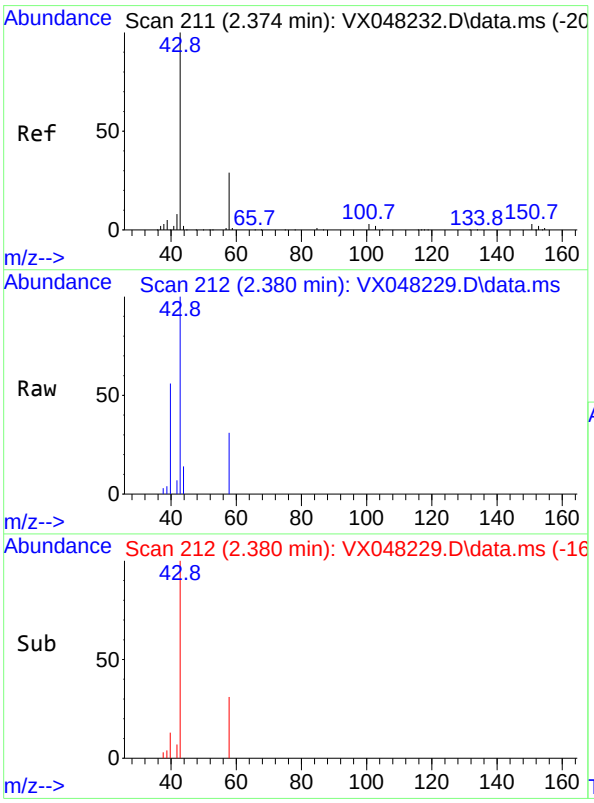
#15
Acrylonitrile
Concen: 5.074 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 53 Resp: 2984

Ion	Ratio	Lower	Upper
53	100		
52	80.3	66.1	99.1
51	37.8	29.0	43.4

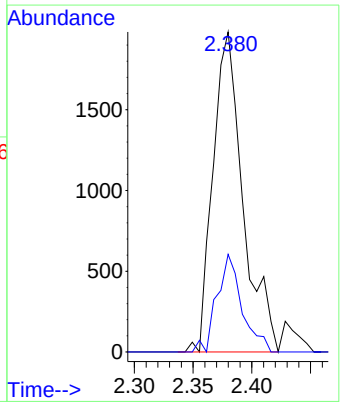


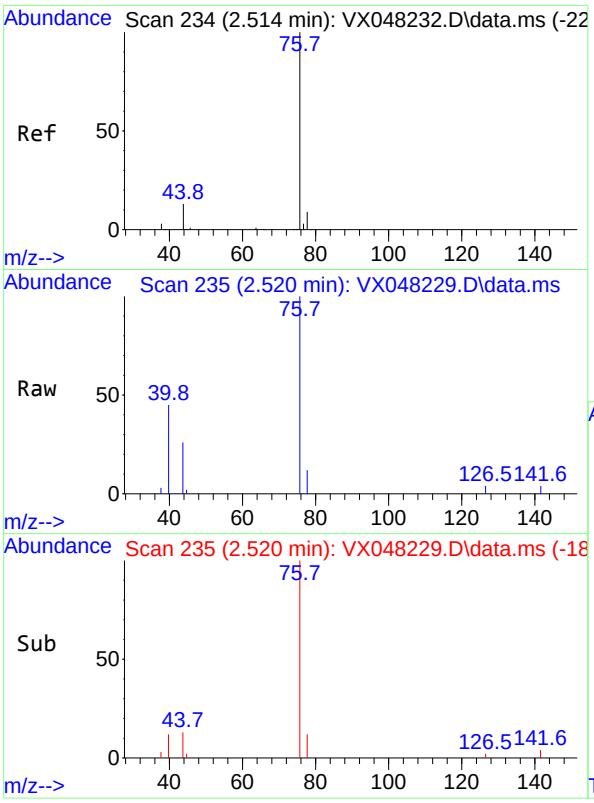


#16
Acetone
Concen: 6.245 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 43 Resp: 3519

Ion	Ratio	Lower	Upper
43	100		
58	30.5	23.4	35.2



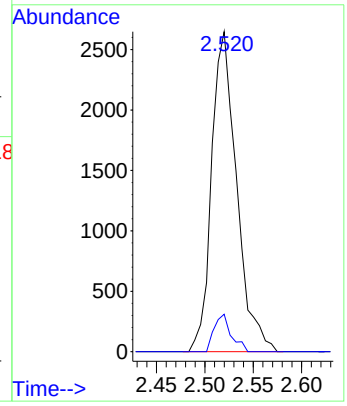


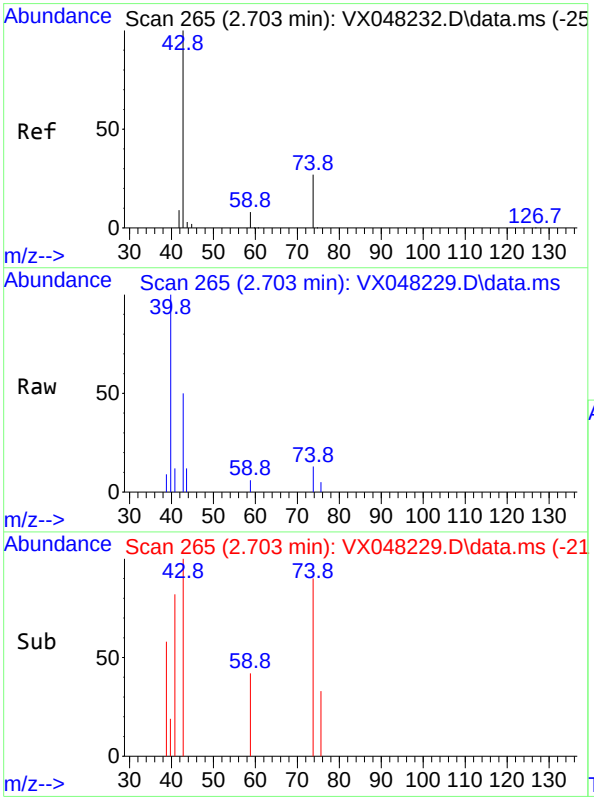
#17
Carbon Disulfide
Concen: 1.230 ug/l
RT: 2.520 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 4767

Ion	Ratio	Lower	Upper
76	100		
78	11.7	7.1	10.7#

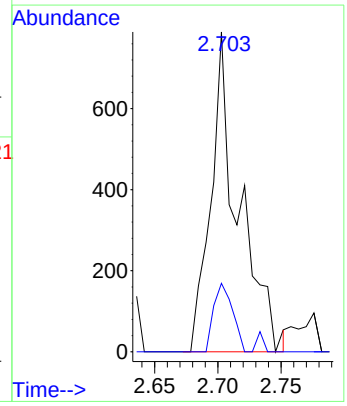


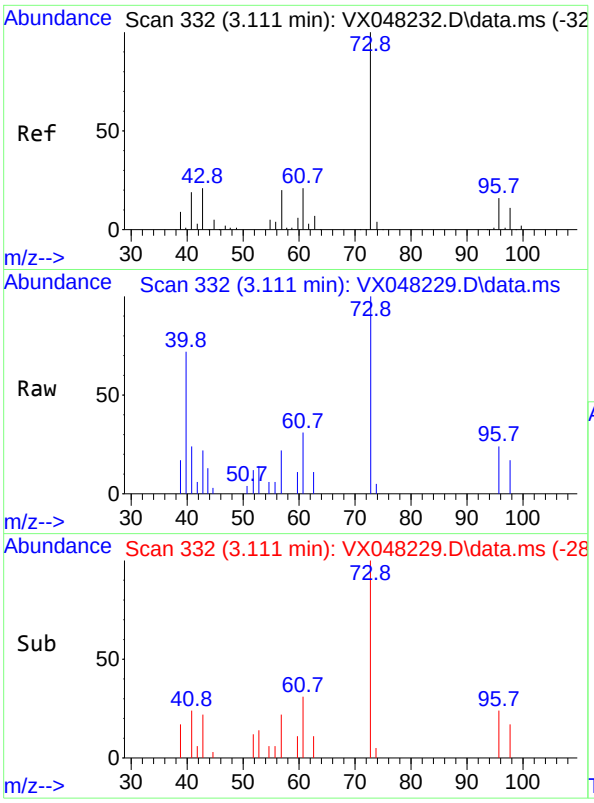


#18
Methyl Acetate
Concen: 1.023 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 43 Resp: 1204

Ion	Ratio	Lower	Upper
43	100		
74	14.6	17.5	26.3#



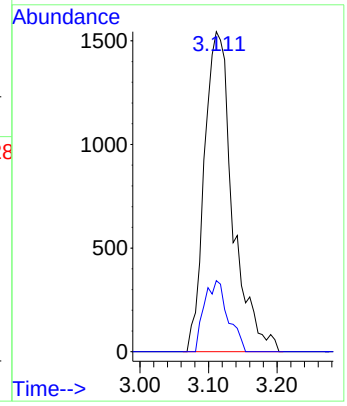


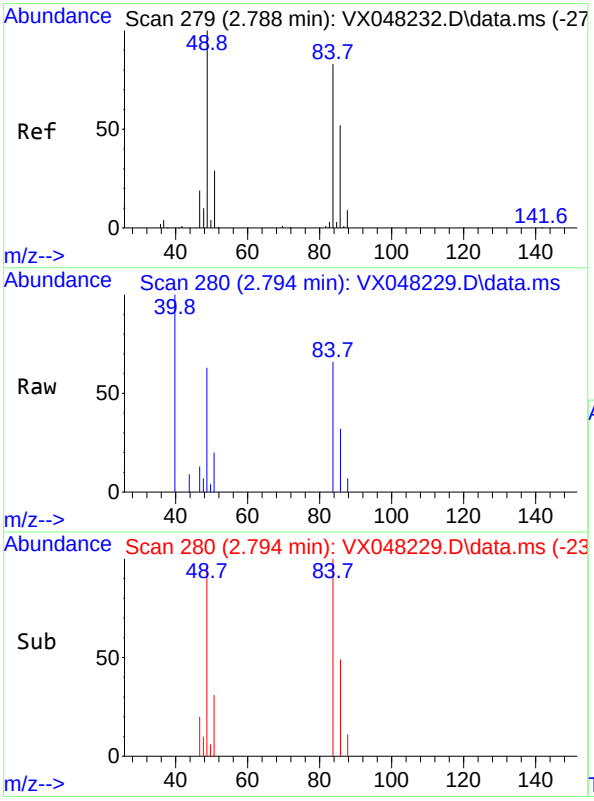
#19
Methyl tert-butyl Ether
Concen: 1.057 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 73 Resp: 4437

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.7	26.5

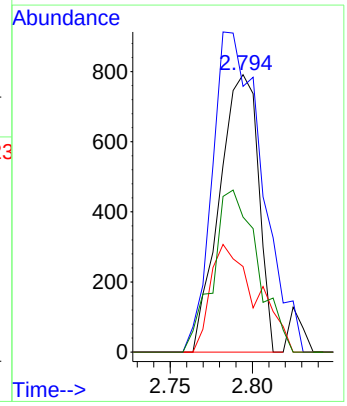


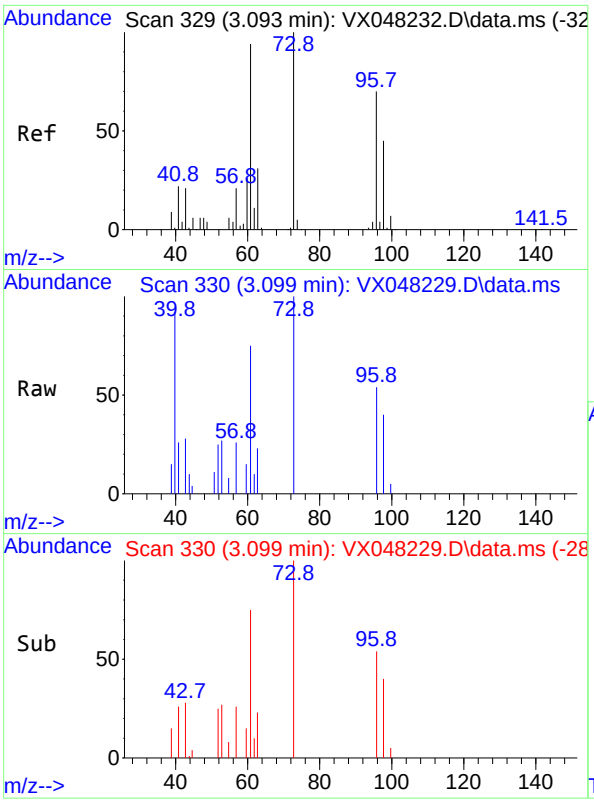


#20
Methylene Chloride
Concen: 0.948 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 84 Resp: 1301

Ion	Ratio	Lower	Upper
84	100		
49	95.8	104.1	156.1#
51	30.8	31.3	46.9#
86	48.7	51.3	76.9#



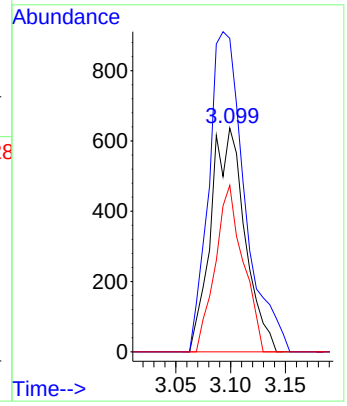


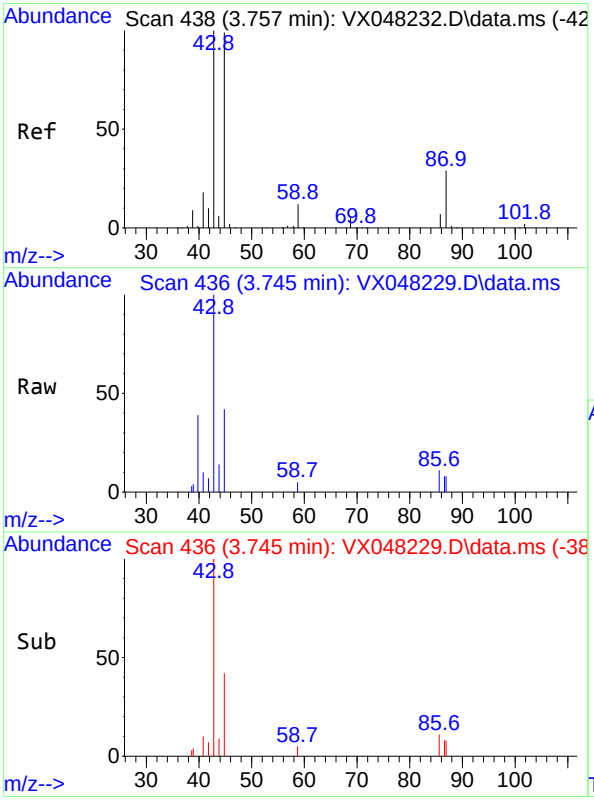
#21
trans-1,2-Dichloroethene
Concen: 1.018 ug/l
RT: 3.099 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 1376

Ion	Ratio	Lower	Upper
96	100		
61	140.0	111.9	167.9
98	74.4	51.2	76.8

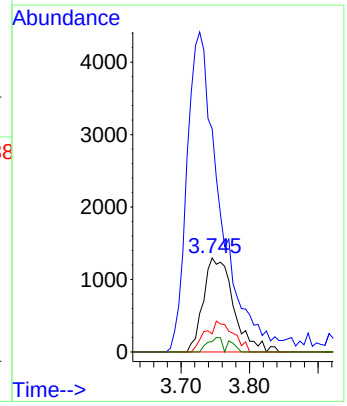


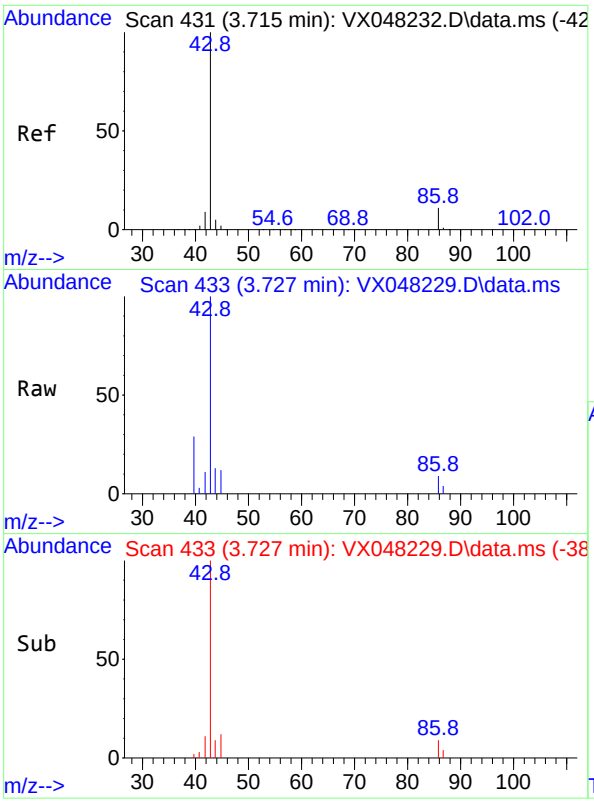


#22
Diisopropyl ether
Concen: 0.976 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 45 Resp: 3977

Ion	Ratio	Lower	Upper
45	100		
43	213.9	89.8	134.8#
87	19.2	20.6	31.0#
59	11.0	9.1	13.7



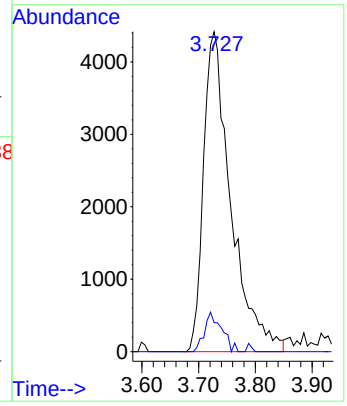


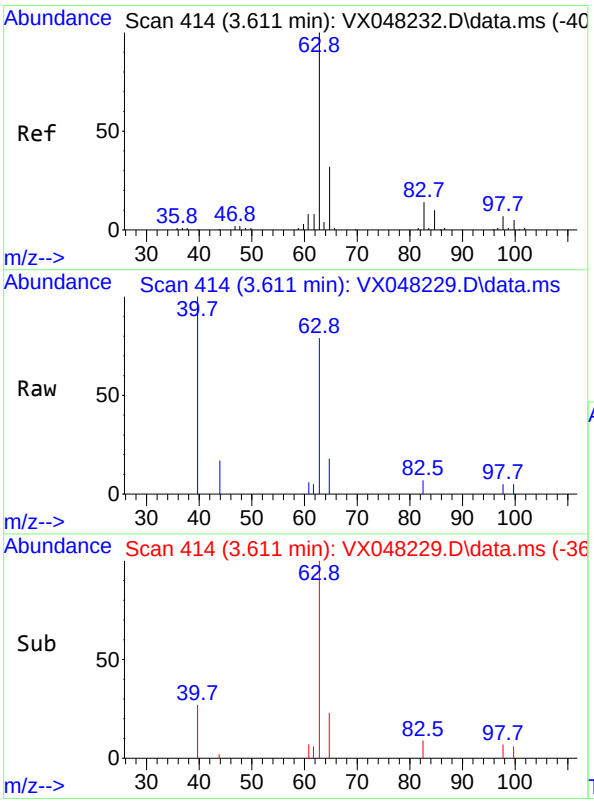
#23
Vinyl Acetate
Concen: 4.539 ug/l
RT: 3.727 min Scan# 4
Delta R.T. 0.012 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 14769

Ion	Ratio	Lower	Upper
43	100		
86	11.8	7.9	11.9

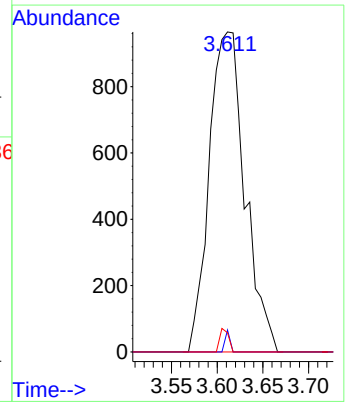


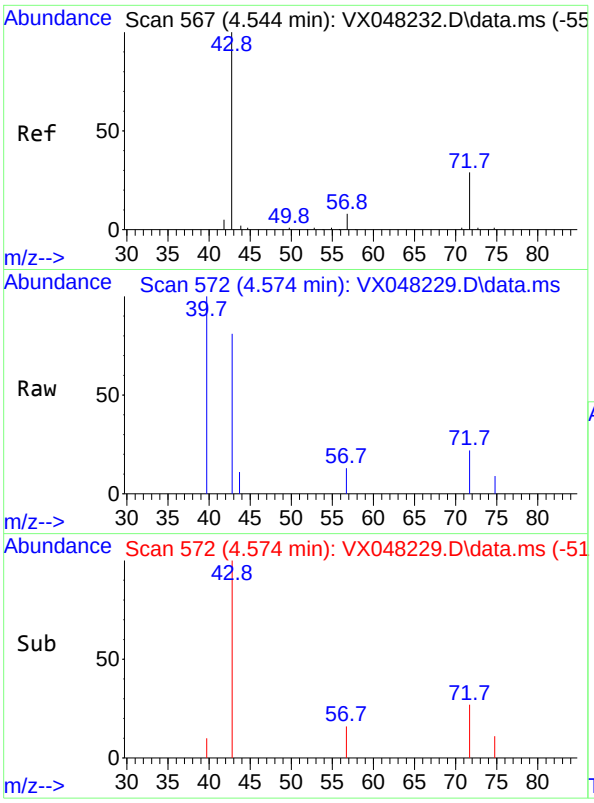


#24
1,1-Dichloroethane
Concen: 1.062 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 63 Resp: 2615

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.5	10.6
100	6.0	2.1	6.3



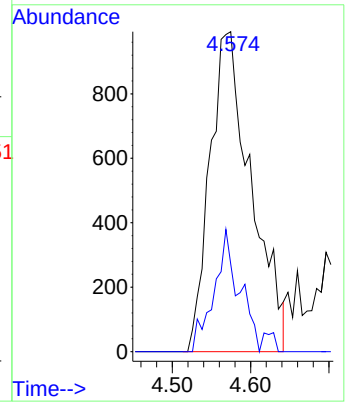


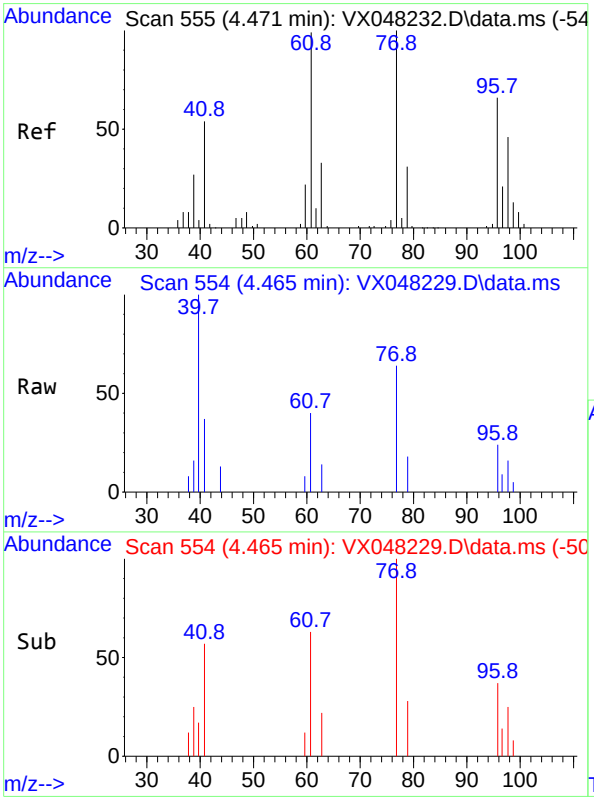
#25
2-Butanone
Concen: 5.100 ug/l
RT: 4.574 min Scan# 5
Delta R.T. 0.037 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 3638

Ion	Ratio	Lower	Upper
43	100		
72	24.0	19.9	29.9

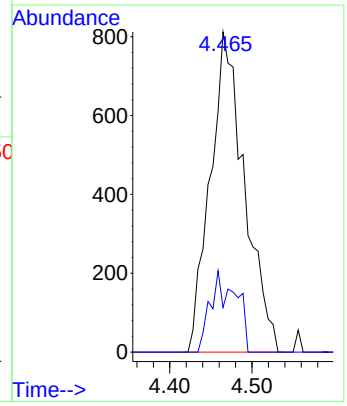


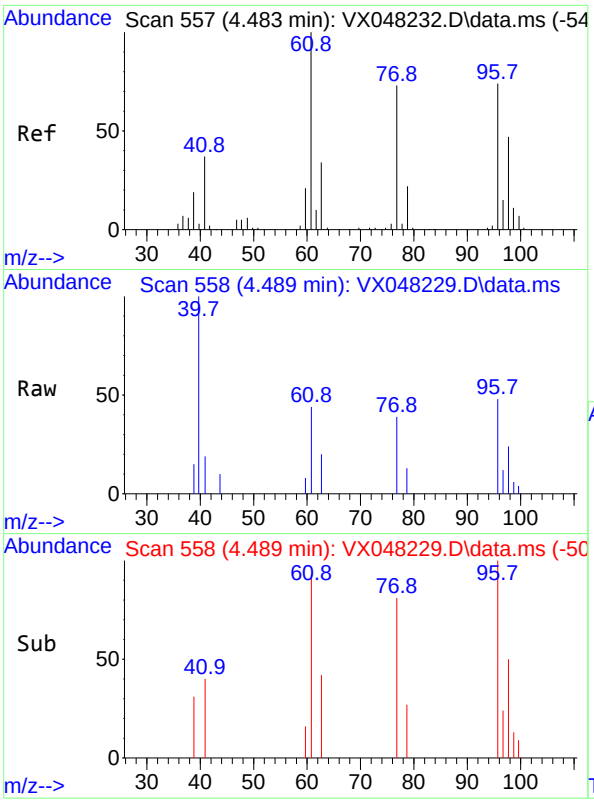


#26
2,2-Dichloropropane
Concen: 1.056 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 77 Resp: 2347

Ion	Ratio	Lower	Upper
77	100		
97	14.3	11.1	33.3



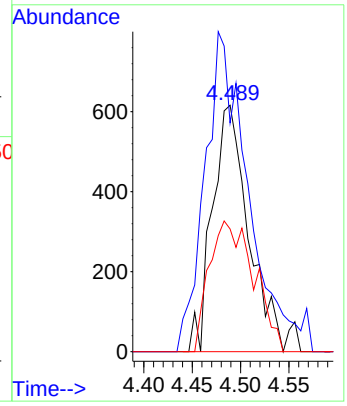


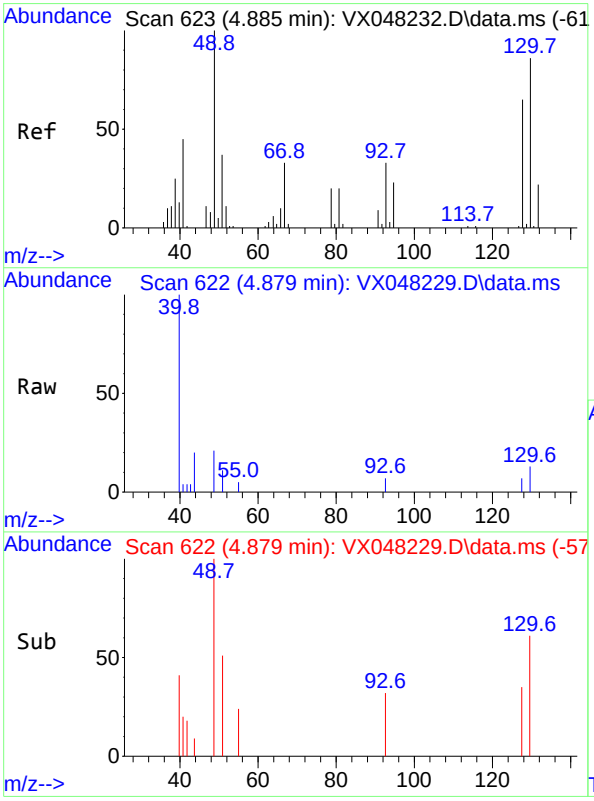
#27
cis-1,2-Dichloroethene
Concen: 1.013 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 1598

Ion	Ratio	Lower	Upper
96	100		
61	156.9	0.0	294.2
98	65.8	0.0	128.4

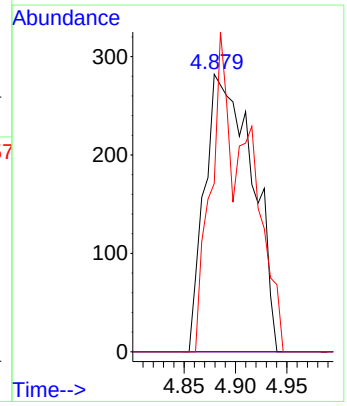


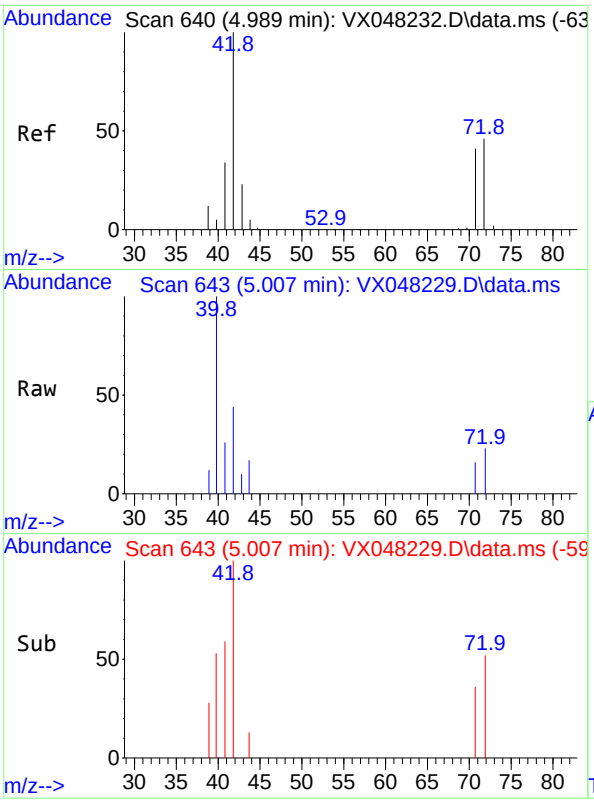


#28
Bromochloromethane
Concen: 0.889 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 49 Resp: 908

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.4
130	47.0	59.3	88.9#



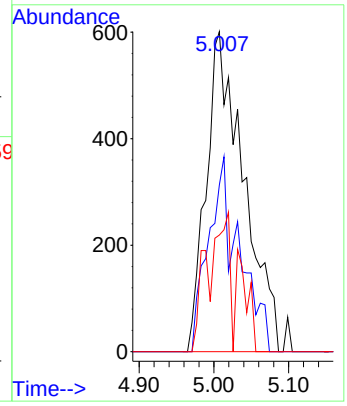


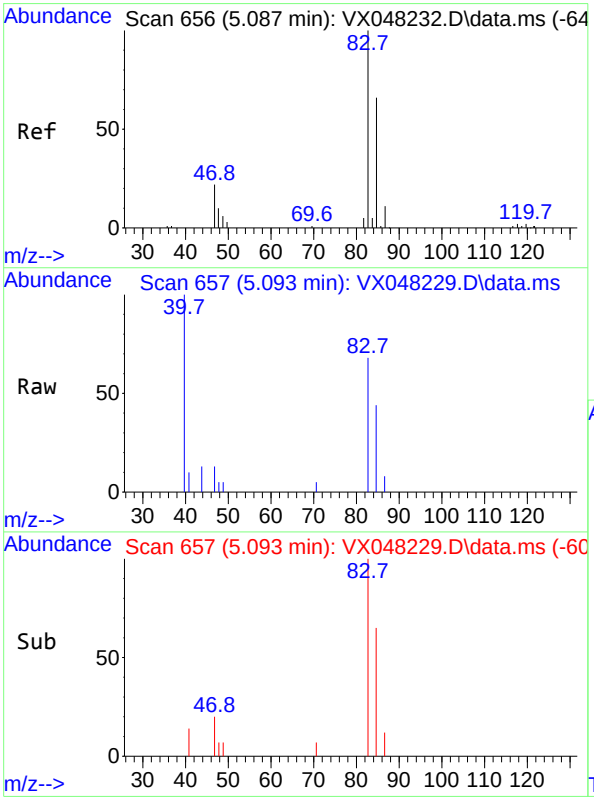
#29
Tetrahydrofuran
Concen: 4.888 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.018 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 42 Resp: 2088

Ion	Ratio	Lower	Upper
42	100		
72	34.1	35.3	52.9#
71	16.2	32.2	48.4#

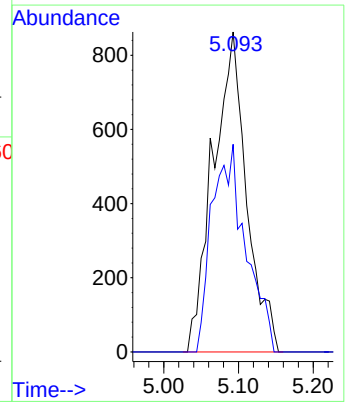


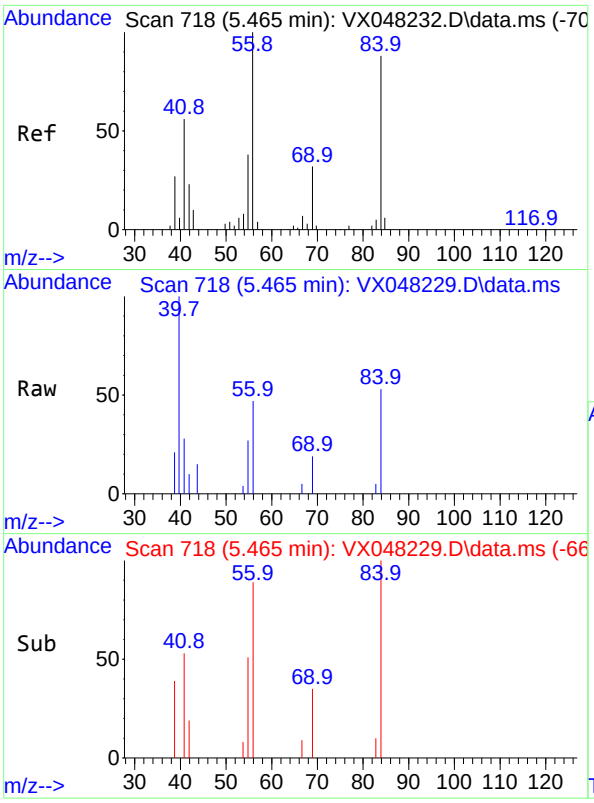


#30
Chloroform
Concen: 1.022 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.012 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 83 Resp: 2688

Ion	Ratio	Lower	Upper
83	100		
85	64.9	50.1	75.1



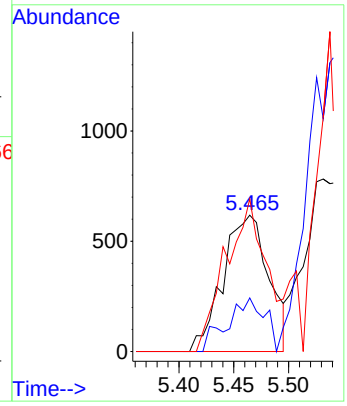


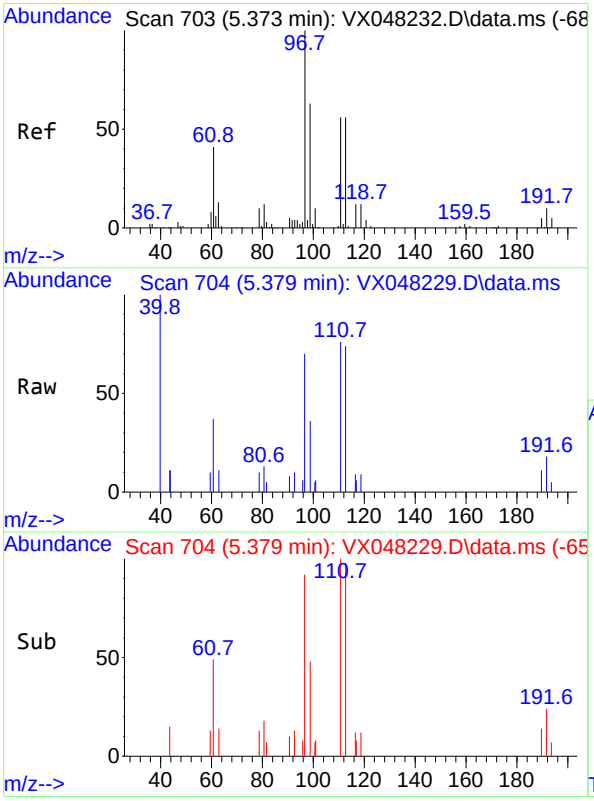
#31
Cyclohexane
Concen: 0.881 ug/l
RT: 5.465 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 56 Resp: 1796

Ion	Ratio	Lower	Upper
56	100		
69	39.3	23.0	34.6#
84	112.0	64.6	97.0#

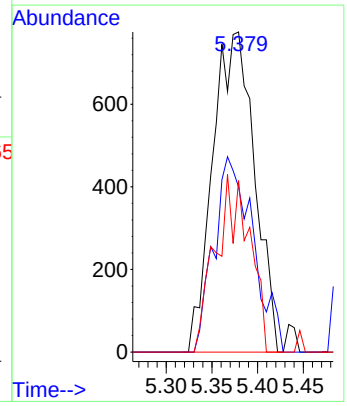


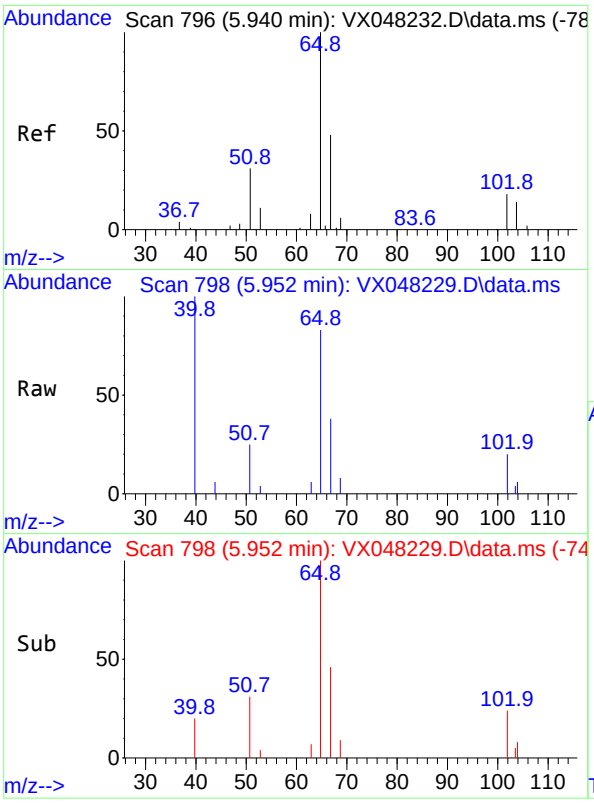


#32
1,1,1-Trichloroethane
Concen: 1.014 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 97 Resp: 2459

Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.7	77.5#
61	44.9	34.8	52.2



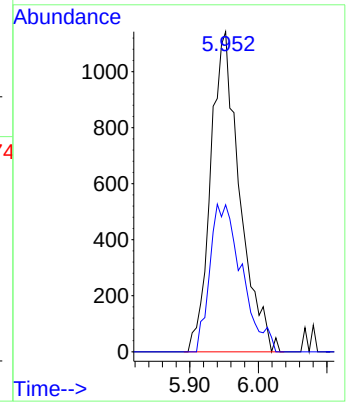


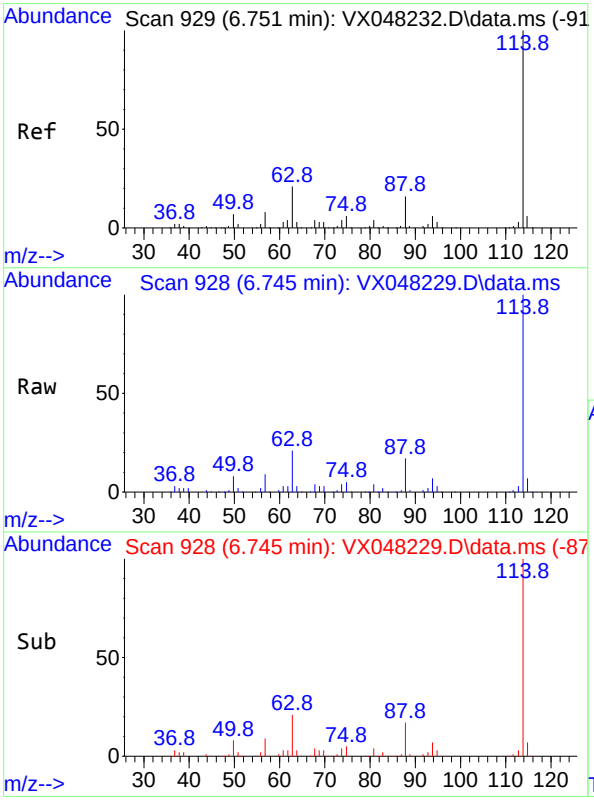
#33
1,2-Dichloroethane-d4
Concen: 2.047 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.012 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 65 Resp: 3362

Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	105.0

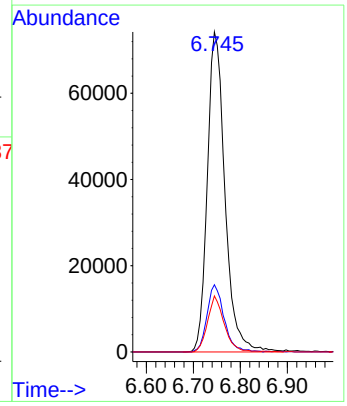


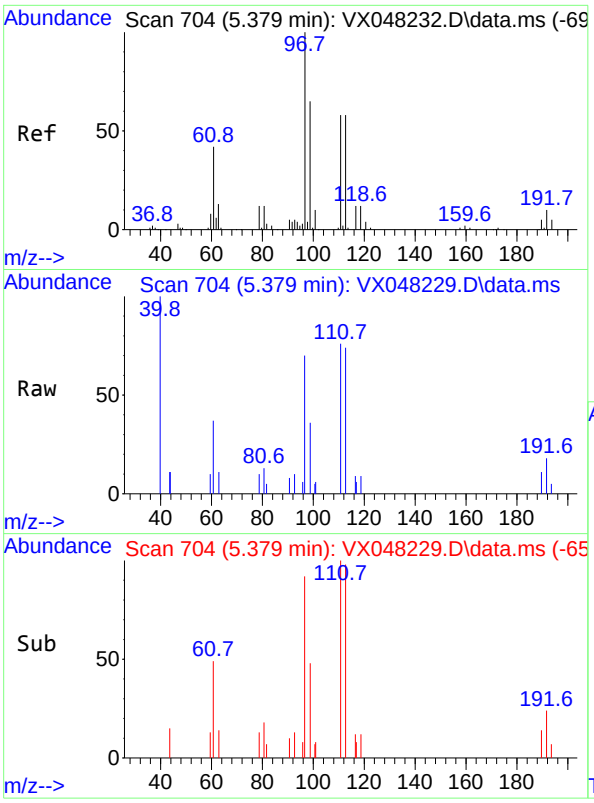


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:114 Resp: 193186

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	43.2
88	17.5	0.0	33.6



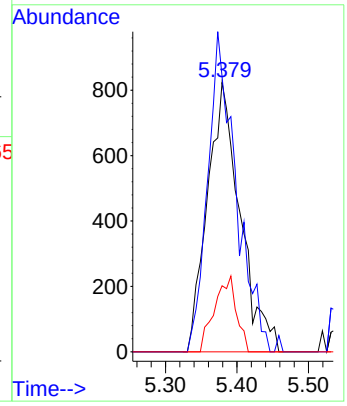


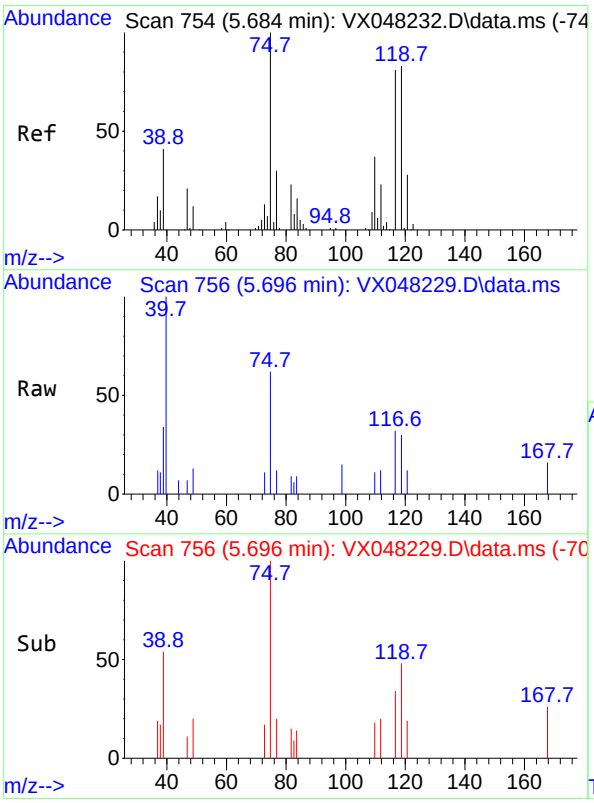
#35
Dibromofluoromethane
Concen: 1.983 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:113 Resp: 2615

Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.2	123.4
192	18.8	15.1	22.7

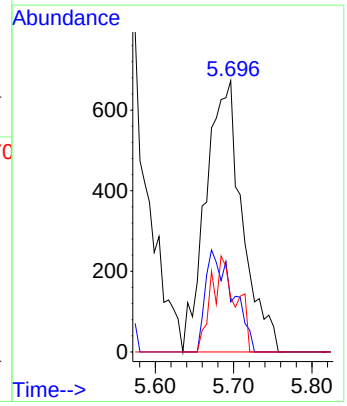


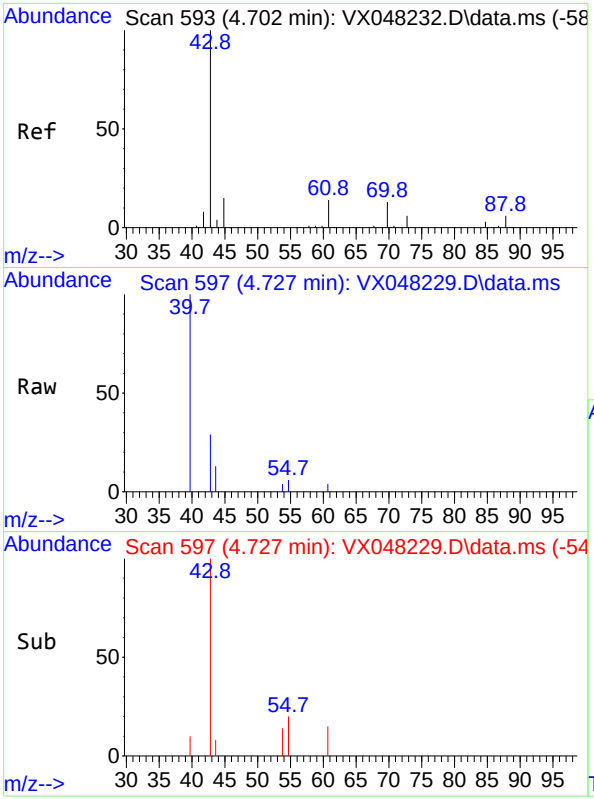


#36
1,1-Dichloropropene
Concen: 1.159 ug/l
RT: 5.696 min Scan# 756
Delta R.T. 0.012 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 75 Resp: 2173

Ion	Ratio	Lower	Upper
75	100		
110	0.0	17.7	53.1#
77	23.9	24.3	36.5#



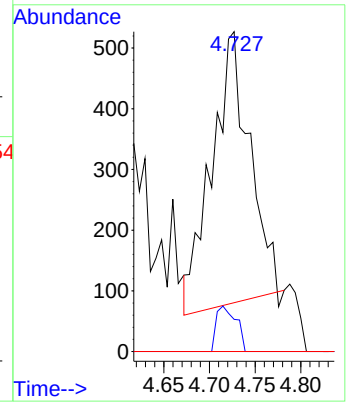


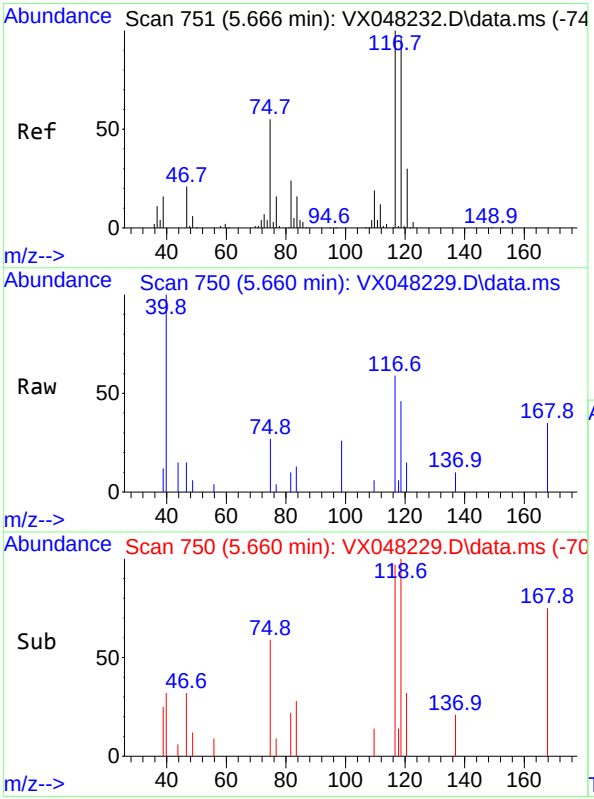
#37
Ethyl Acetate
Concen: 0.827 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.031 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 1285

Ion	Ratio	Lower	Upper
43	100		
61	8.8	10.6	15.8#
70	0.0	7.8	11.6#

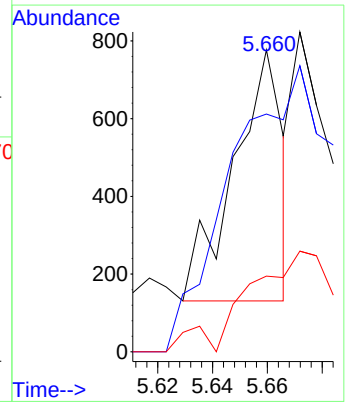


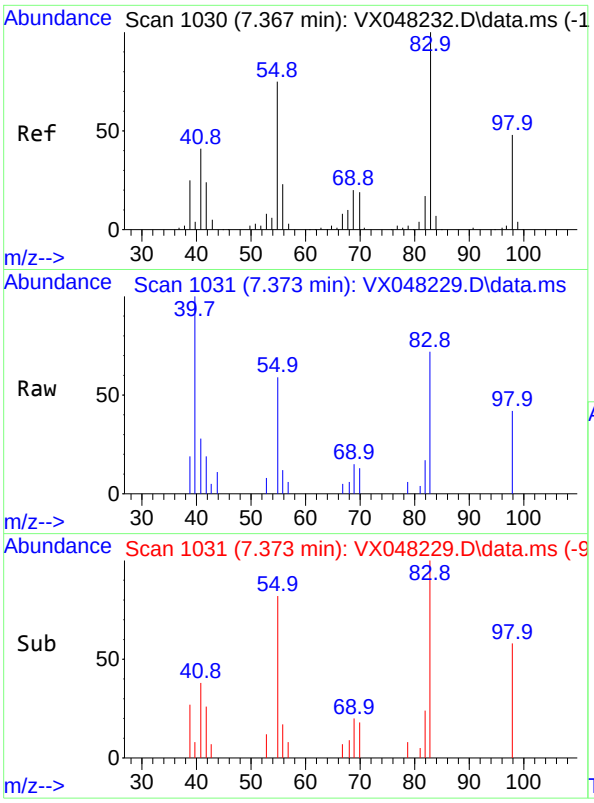


#38
Carbon Tetrachloride
Concen: 0.347 ug/l
RT: 5.660 min Scan# 750
Delta R.T. -0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:117 Resp: 802

Ion	Ratio	Lower	Upper
117	100		
119	71.7	77.2	115.8#
121	22.4	24.8	37.2#



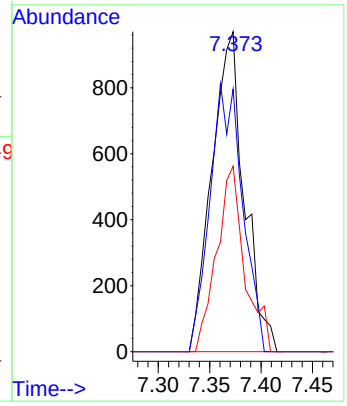


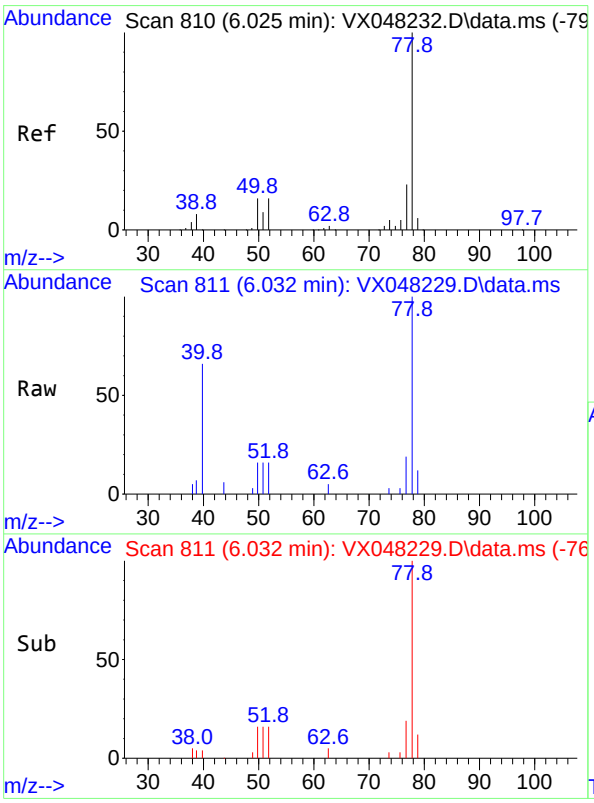
#39
Methylcyclohexane
Concen: 0.961 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 2128

Ion	Ratio	Lower	Upper
83	100		
55	82.1	66.2	99.2
98	57.9	38.9	58.3

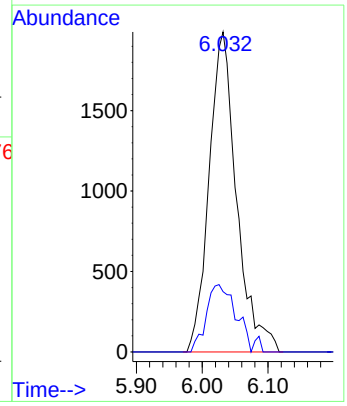


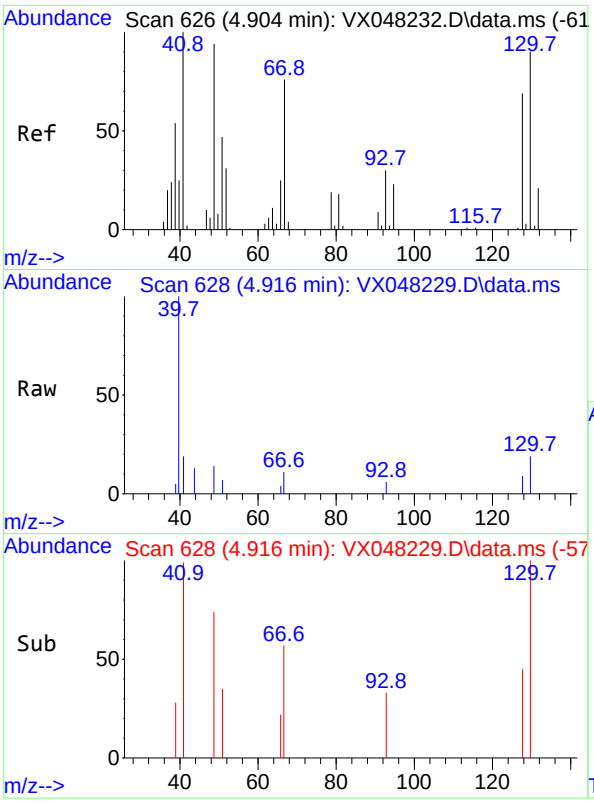


#40
Benzene
Concen: 1.060 ug/l
RT: 6.032 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 78 Resp: 5767

Ion	Ratio	Lower	Upper
78	100		
77	18.9	19.3	28.9#



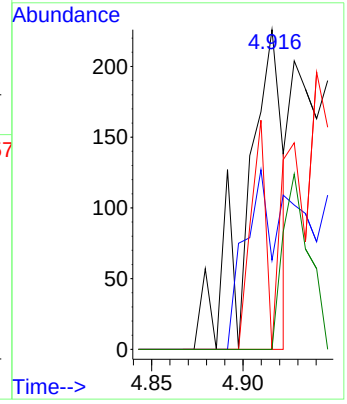


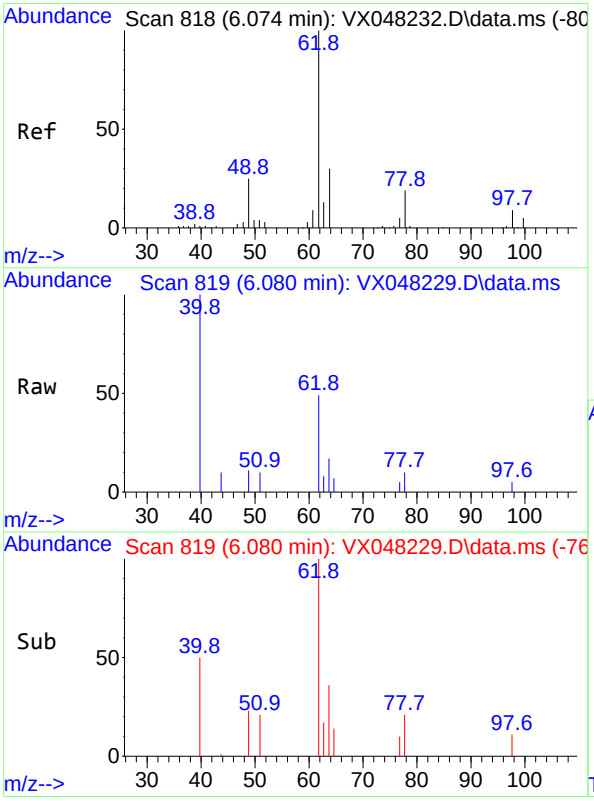
#41
Methacrylonitrile
Concen: 0.382 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.012 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 312

Ion	Ratio	Lower	Upper
41	100		
39	40.4	44.0	66.0#
67	29.2	58.7	88.1#
52	39.4	25.9	38.9#

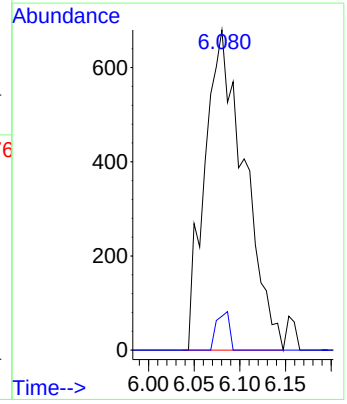


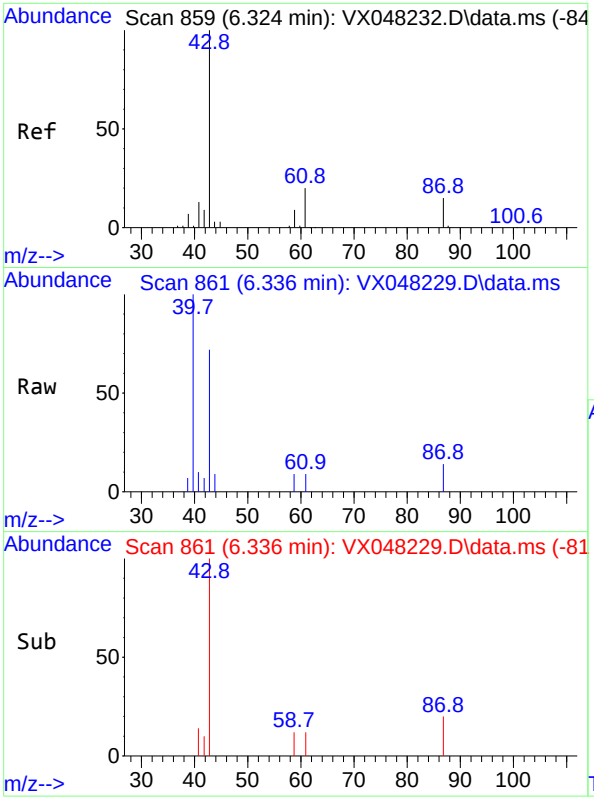


#42
1,2-Dichloroethane
Concen: 1.018 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.012 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 62 Resp: 2044

Ion	Ratio	Lower	Upper
62	100		
98	3.9	0.0	17.2



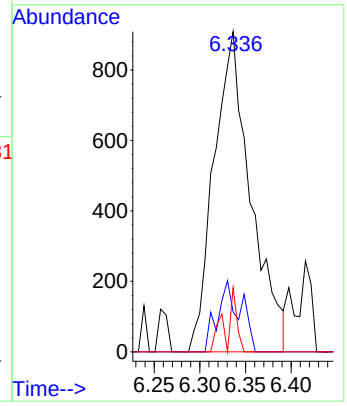


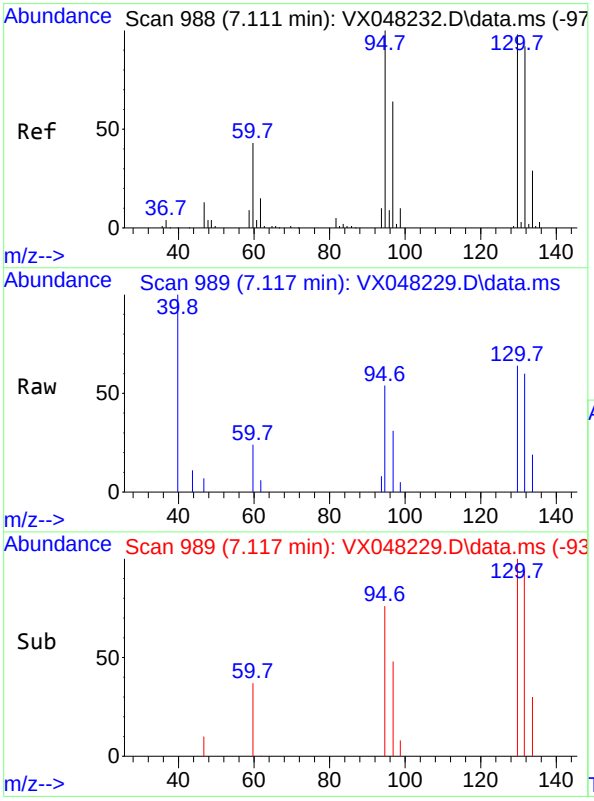
#43
Isopropyl Acetate
Concen: 0.998 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 2548

Ion	Ratio	Lower	Upper
43	100		
61	13.8	14.9	22.3#
87	3.4	9.4	14.2#

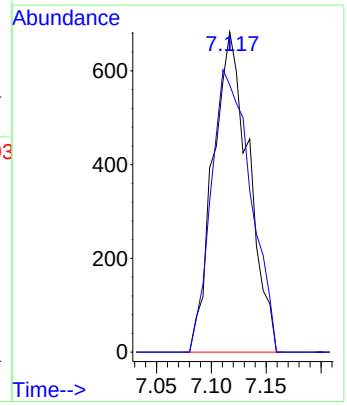


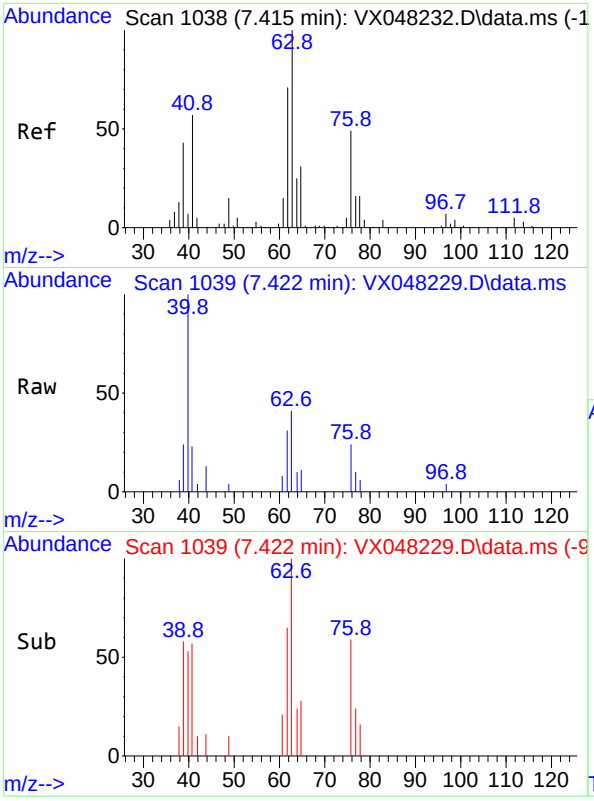


#44
Trichloroethene
Concen: 1.076 ug/l
RT: 7.117 min Scan# 989
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:130 Resp: 1547

Ion	Ratio	Lower	Upper
130	100		
95	83.5	0.0	200.6



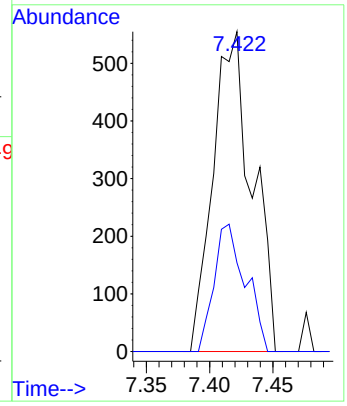


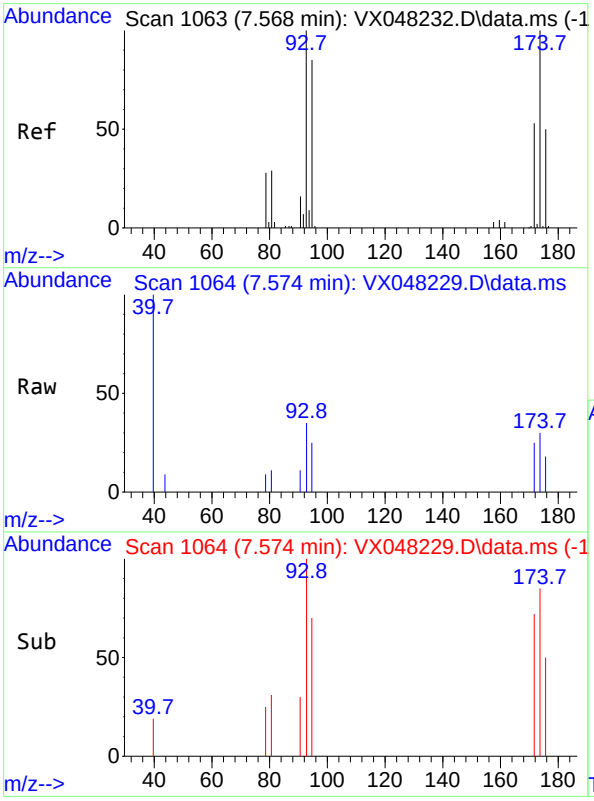
#45
1,2-Dichloropropane
Concen: 0.924 ug/l
RT: 7.422 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 1195

Ion	Ratio	Lower	Upper
63	100		
65	27.7	24.1	36.1

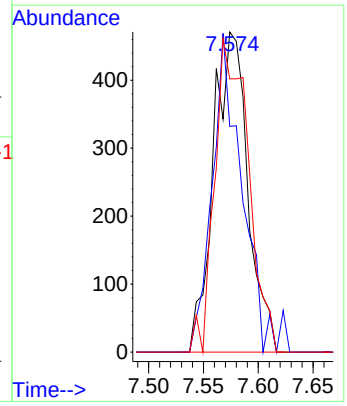


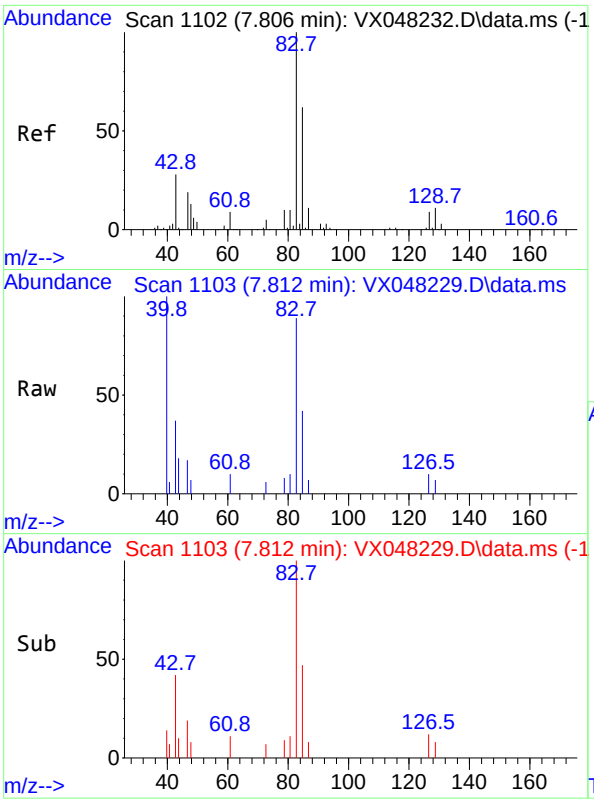


#46
Dibromomethane
Concen: 1.024 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 93 Resp: 1032

Ion	Ratio	Lower	Upper
93	100		
95	86.4	65.9	98.9
174	95.3	71.7	107.5



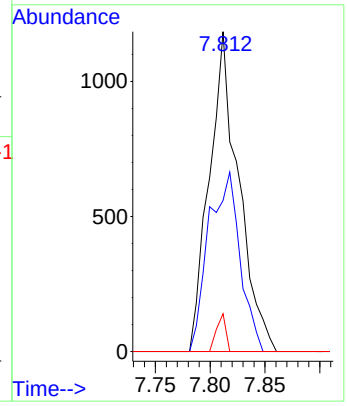


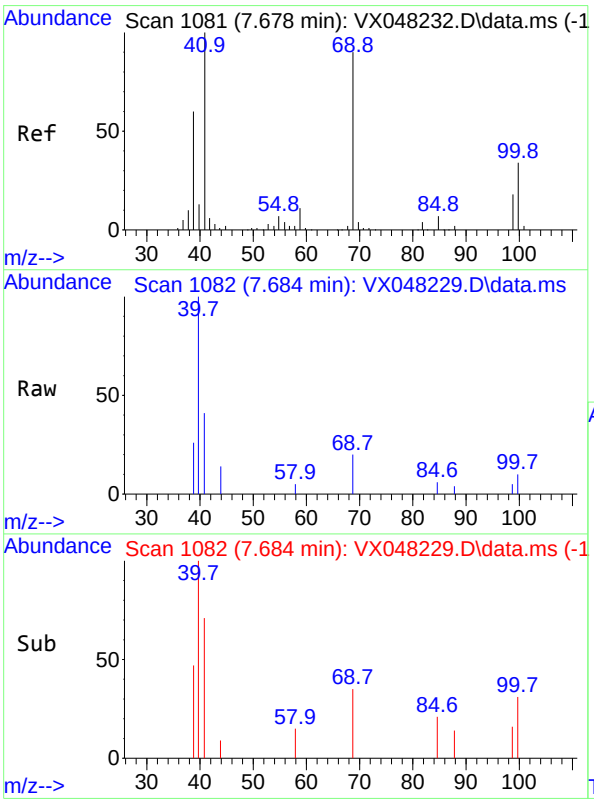
#47
Bromodichloromethane
Concen: 1.013 ug/l
RT: 7.812 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 2204

Ion	Ratio	Lower	Upper
83	100		
85	47.2	52.2	78.4#
127	11.8	7.3	10.9#

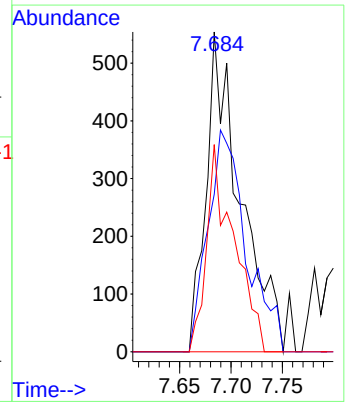


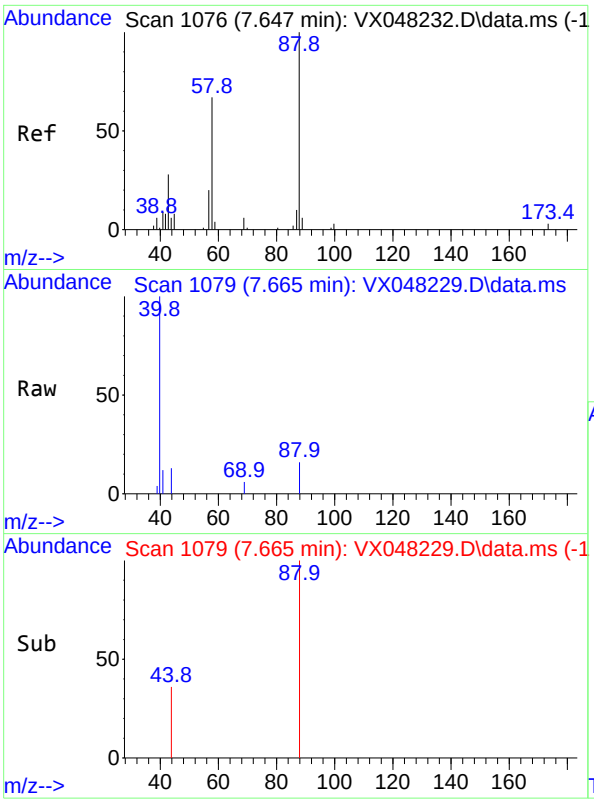


#48
Methyl methacrylate
Concen: 0.996 ug/l
RT: 7.684 min Scan# 1082
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 41 Resp: 1283

Ion	Ratio	Lower	Upper
41	100		
69	77.6	63.4	95.0
39	51.7	47.1	70.7



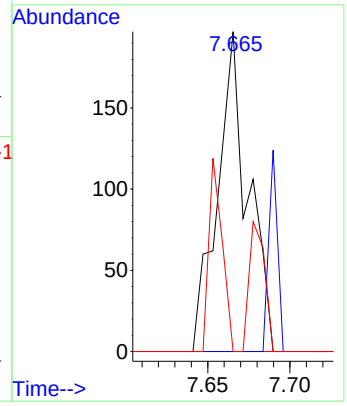


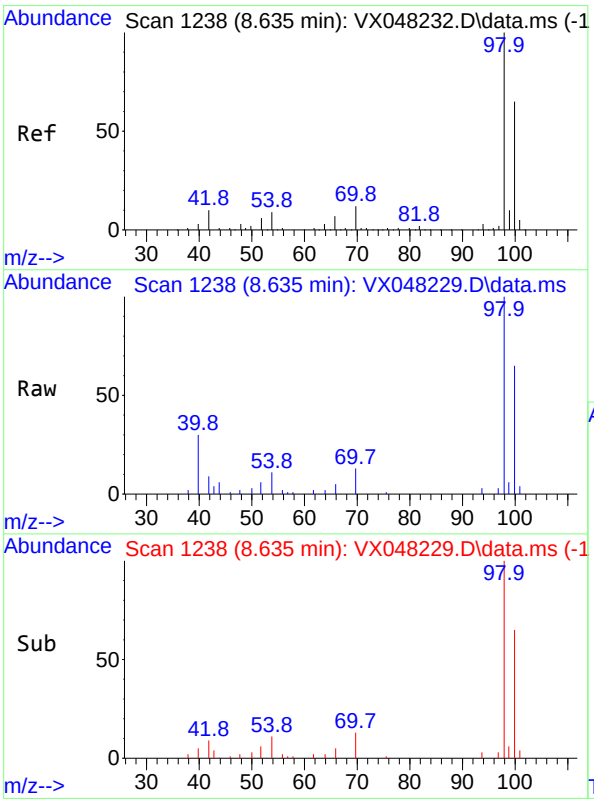
#49
1,4-Dioxane
Concen: 14.987 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.024 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 88 Resp: 255

Ion	Ratio	Lower	Upper
88	100		
43	0.0	35.0	52.4#
58	20.8	61.9	92.9#

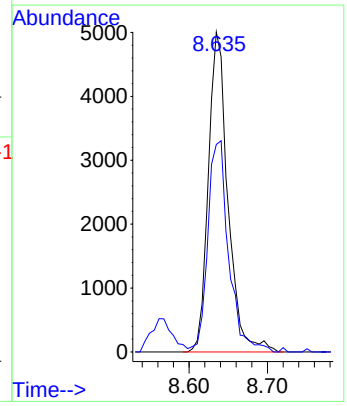


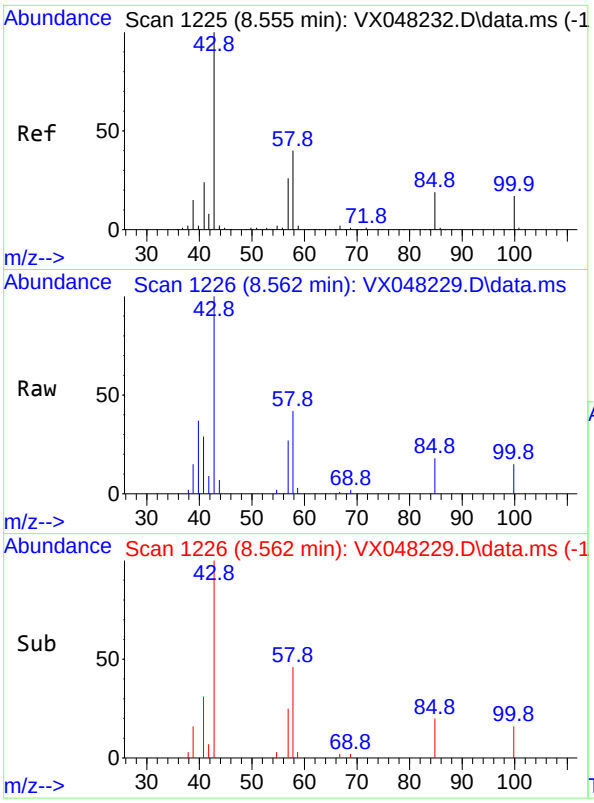


#50
Toluene-d8
Concen: 1.877 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 98 Resp: 8676

Ion	Ratio	Lower	Upper
98	100		
100	70.5	53.0	79.4



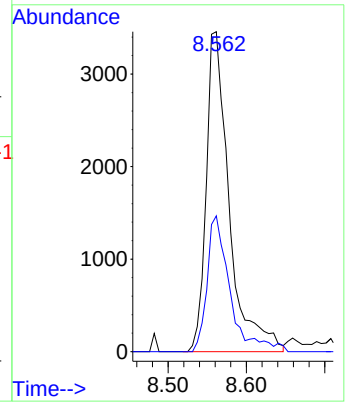


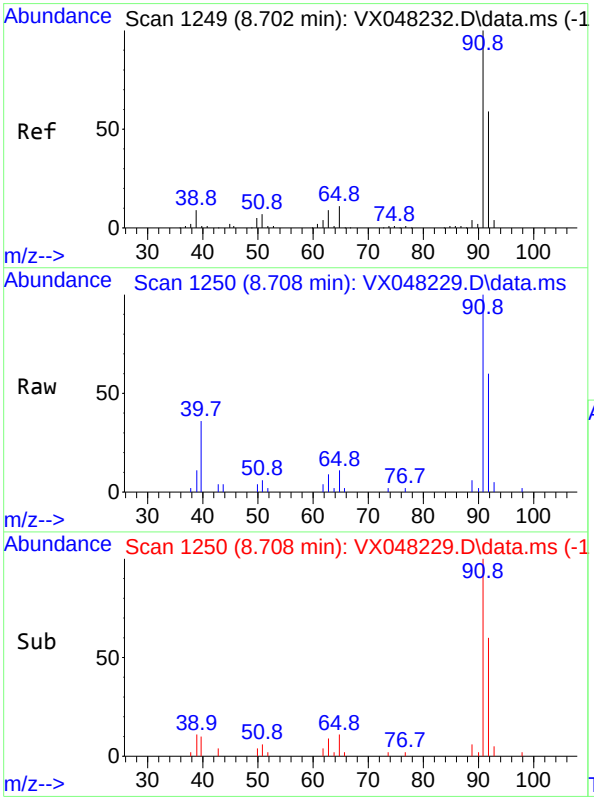
#51
4-Methyl-2-Pentanone
Concen: 4.802 ug/l
RT: 8.562 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 7066

Ion	Ratio	Lower	Upper
43	100		
58	42.1	29.5	44.3

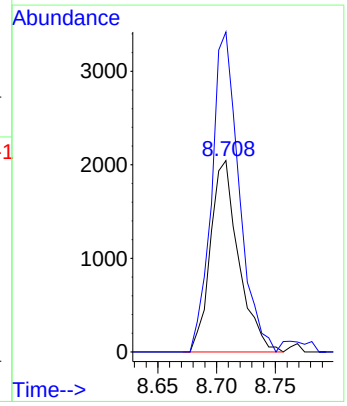


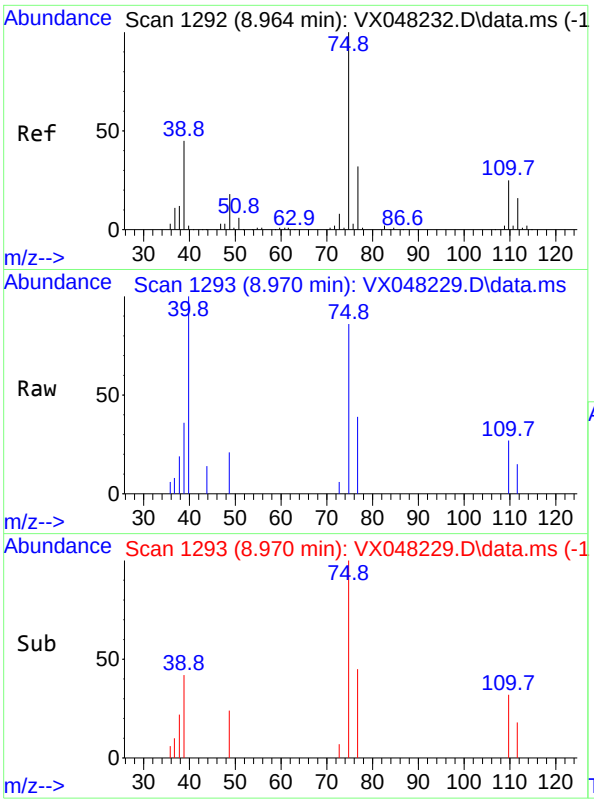


#52
Toluene
Concen: 0.984 ug/l
RT: 8.708 min Scan# 1250
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 92 Resp: 3403

Ion	Ratio	Lower	Upper
92	100		
91	162.8	136.1	204.1



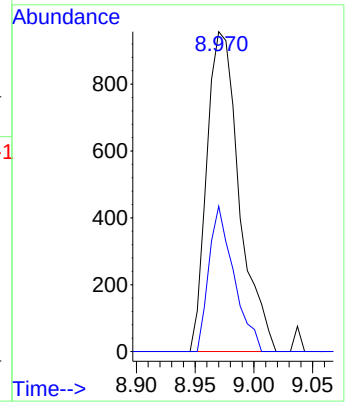


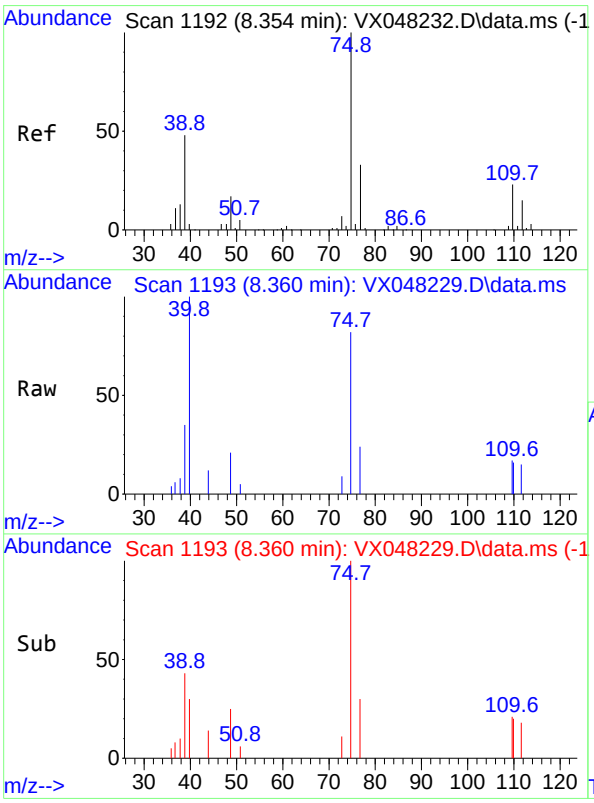
#53
t-1,3-Dichloropropene
Concen: 0.879 ug/l
RT: 8.970 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 1844

Ion	Ratio	Lower	Upper
75	100		
77	45.5	25.0	37.6#

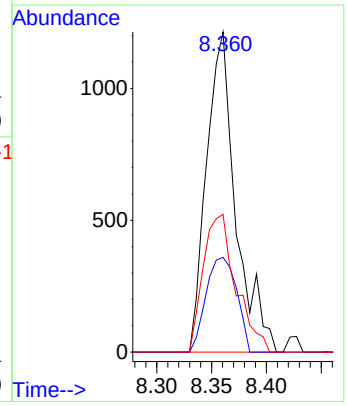


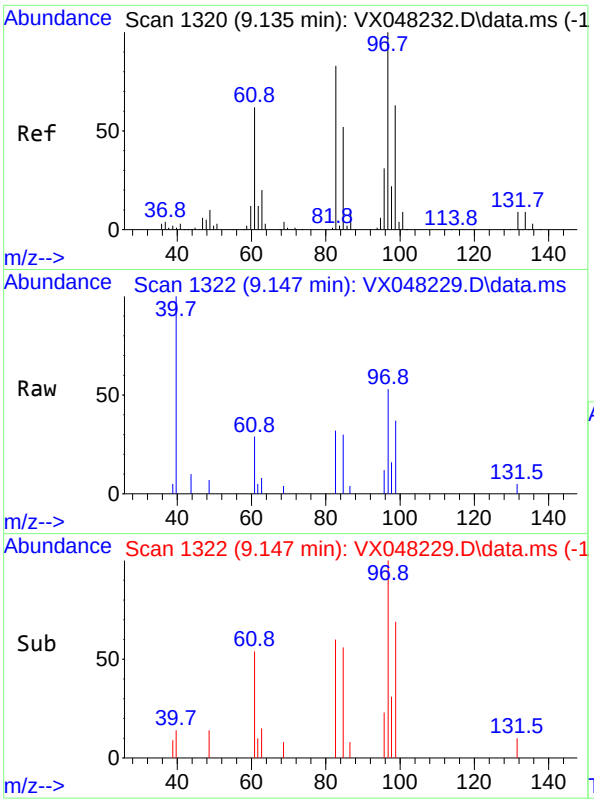


#54
cis-1,3-Dichloropropene
Concen: 0.994 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.012 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 75 Resp: 2250

Ion	Ratio	Lower	Upper
75	100		
77	29.6	24.9	37.3
39	43.0	42.6	64.0



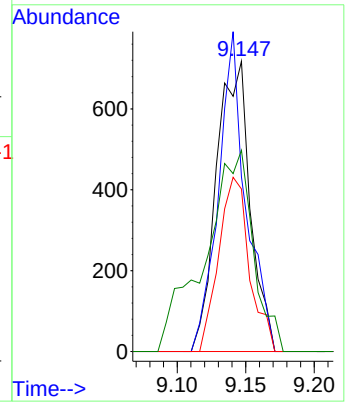


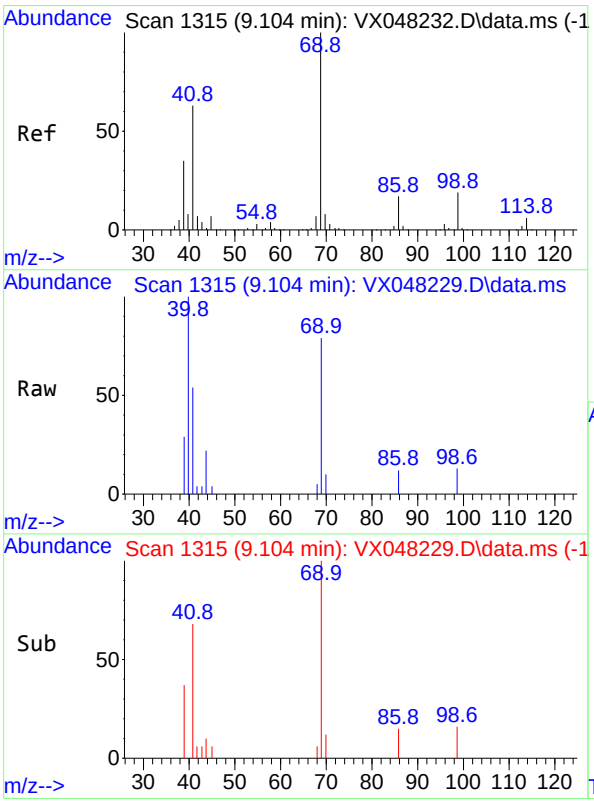
#55
1,1,2-Trichloroethane
Concen: 0.956 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 97 Resp: 1229

Ion	Ratio	Lower	Upper
97	100		
83	60.2	70.6	105.8#
85	56.0	45.0	67.6
99	69.4	50.9	76.3

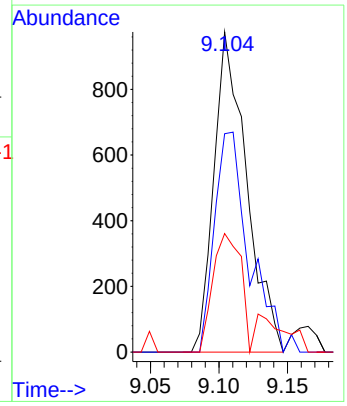


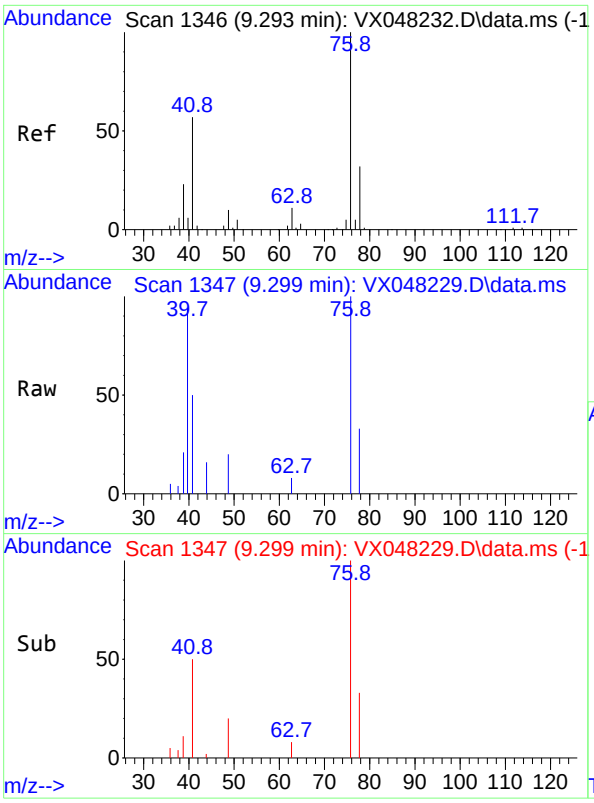


#56
Ethyl methacrylate
Concen: 0.859 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 69 Resp: 1616

Ion	Ratio	Lower	Upper
69	100		
41	73.0	56.0	84.0
39	36.5	31.6	47.4



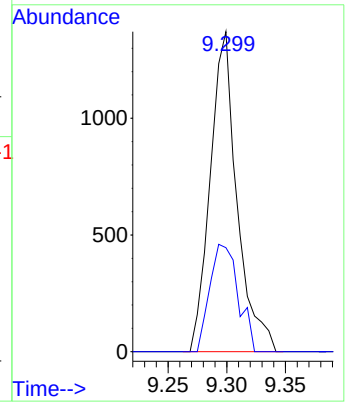


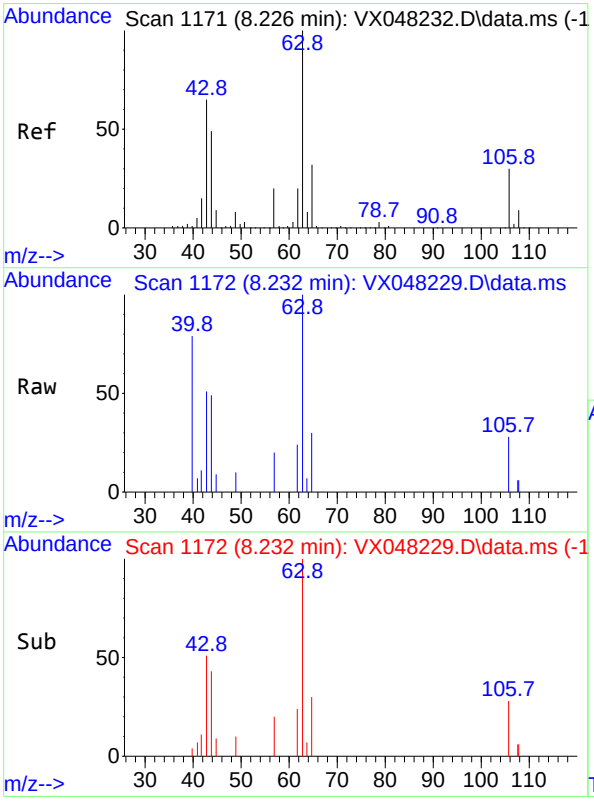
#57
1,3-Dichloropropane
Concen: 0.990 ug/l
RT: 9.299 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 2174

Ion	Ratio	Lower	Upper
76	100		
78	35.5	25.4	38.0

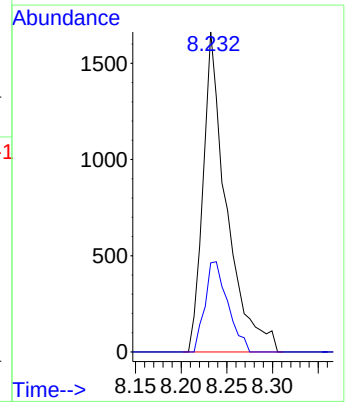


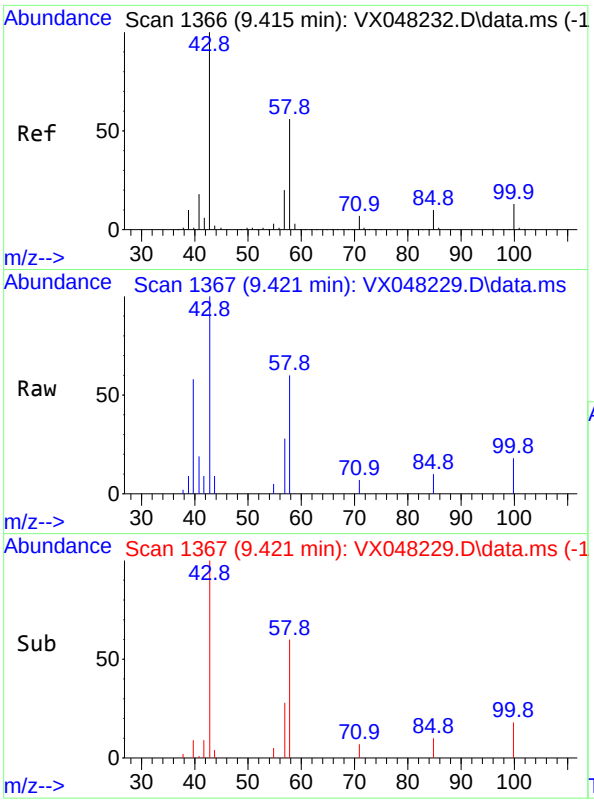


#58
2-Chloroethyl Vinyl ether
Concen: 4.614 ug/l
RT: 8.232 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 63 Resp: 2970

Ion	Ratio	Lower	Upper
63	100		
106	27.5	22.2	33.2



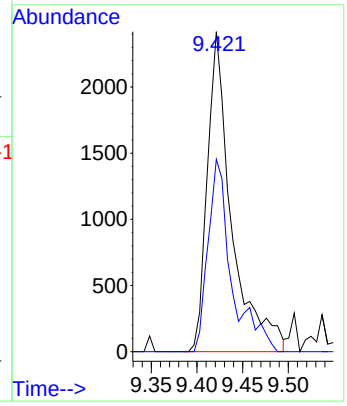


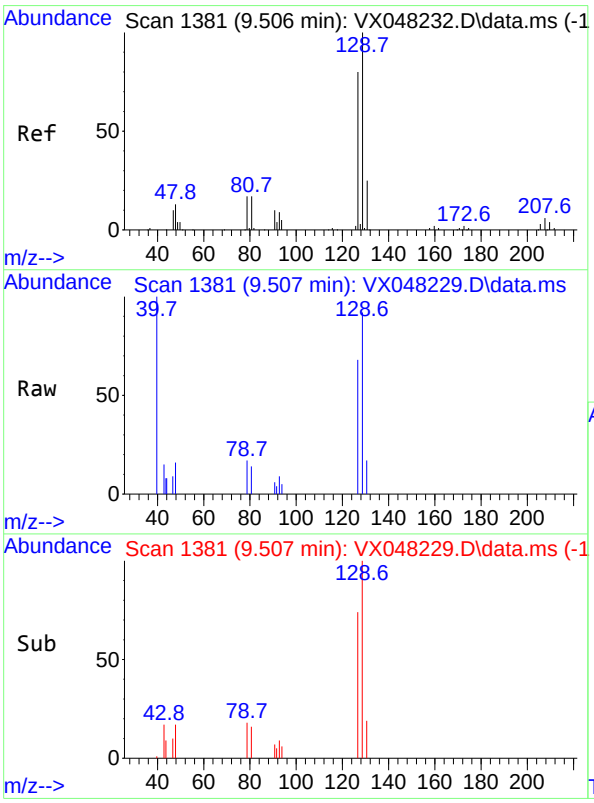
#59
2-Hexanone
Concen: 4.343 ug/l
RT: 9.421 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 4456

Ion	Ratio	Lower	Upper
43	100		
58	58.1	26.3	78.8

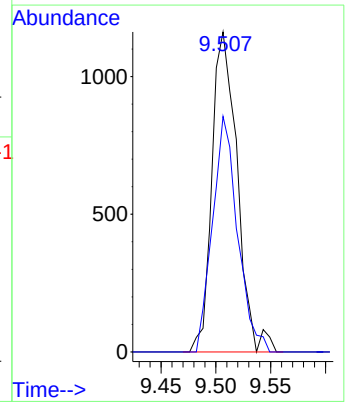


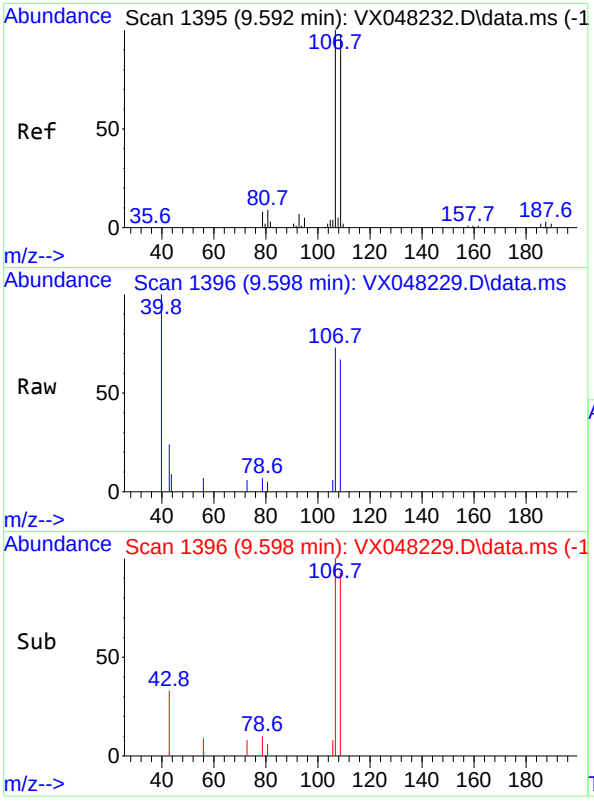


#60
Dibromochloromethane
Concen: 1.077 ug/l
RT: 9.507 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:129 Resp: 1862

Ion	Ratio	Lower	Upper
129	100		
127	72.9	38.6	115.7



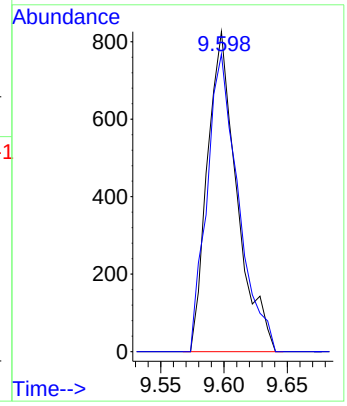


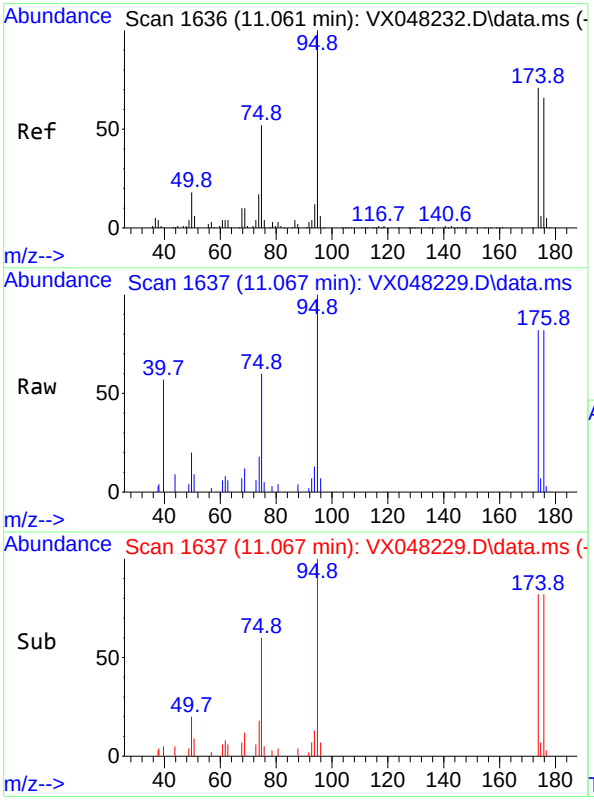
#61
1,2-Dibromoethane
Concen: 0.976 ug/l
RT: 9.598 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:107 Resp: 1338

Ion	Ratio	Lower	Upper
107	100		
109	98.6	77.0	115.4

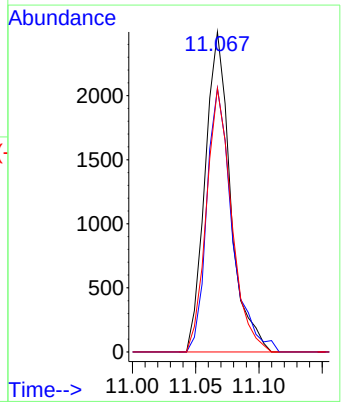


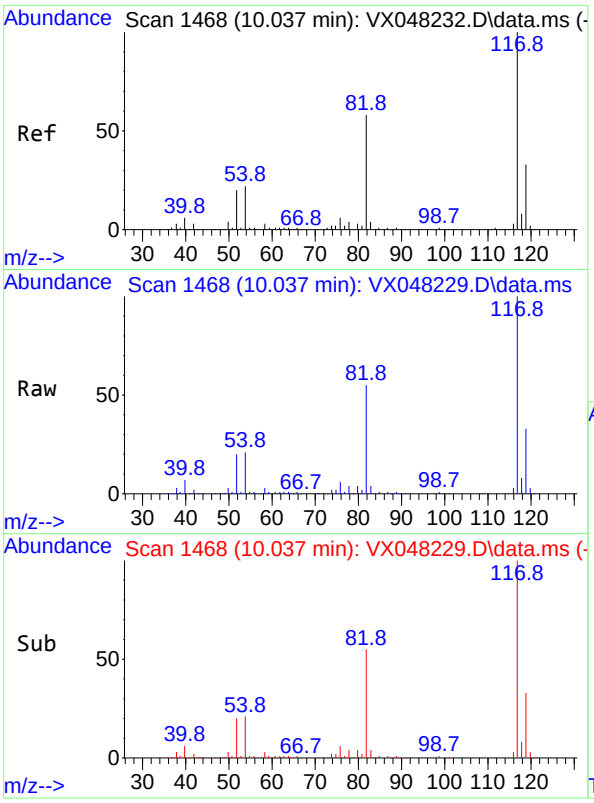


#62
4-Bromofluorobenzene
Concen: 1.985 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 95 Resp: 3491

Ion	Ratio	Lower	Upper
95	100		
174	81.9	0.0	147.8
176	81.9	0.0	142.8



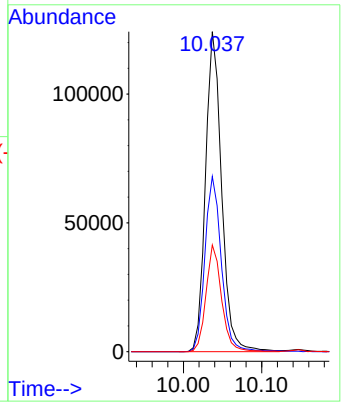


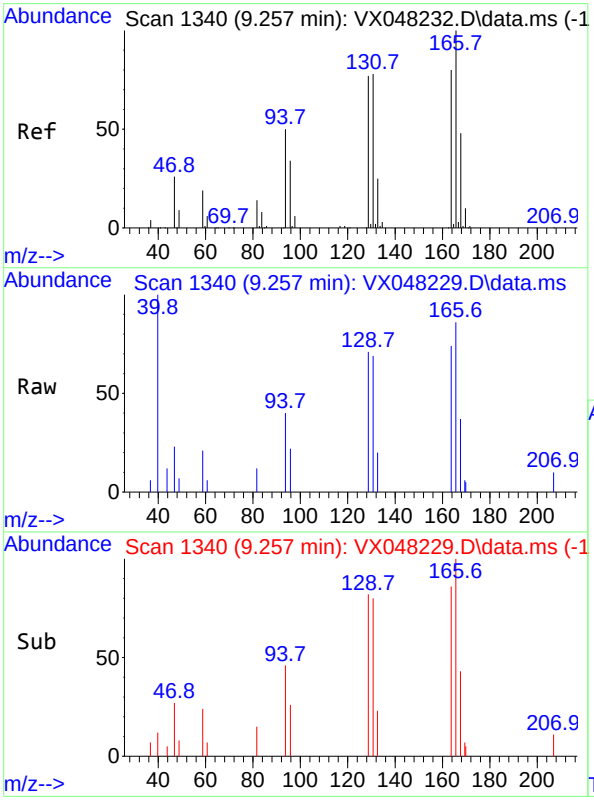
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 177252

Ion	Ratio	Lower	Upper
117	100		
82	54.8	46.5	69.7
119	33.3	25.9	38.9

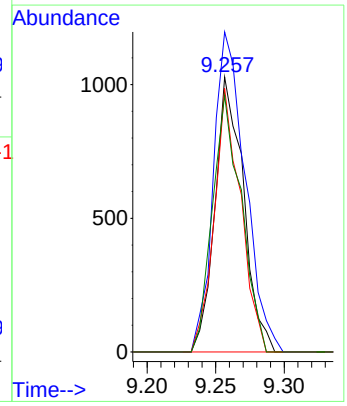


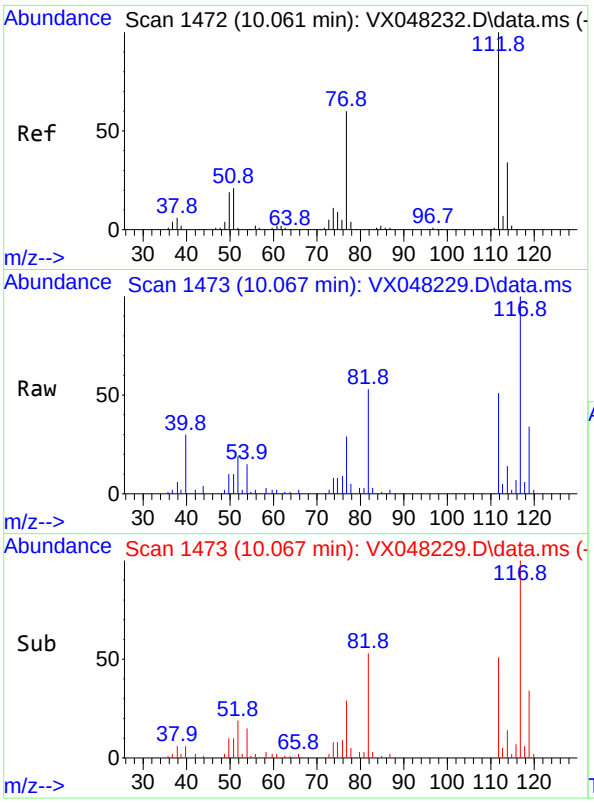


#64
Tetrachloroethene
Concen: 1.120 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:164 Resp: 1482

Ion	Ratio	Lower	Upper
164	100		
166	116.4	104.5	156.7
129	95.9	81.8	122.6
131	93.4	77.0	115.6



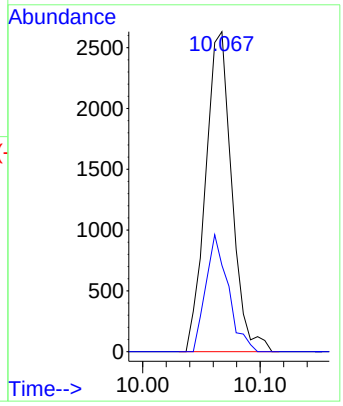


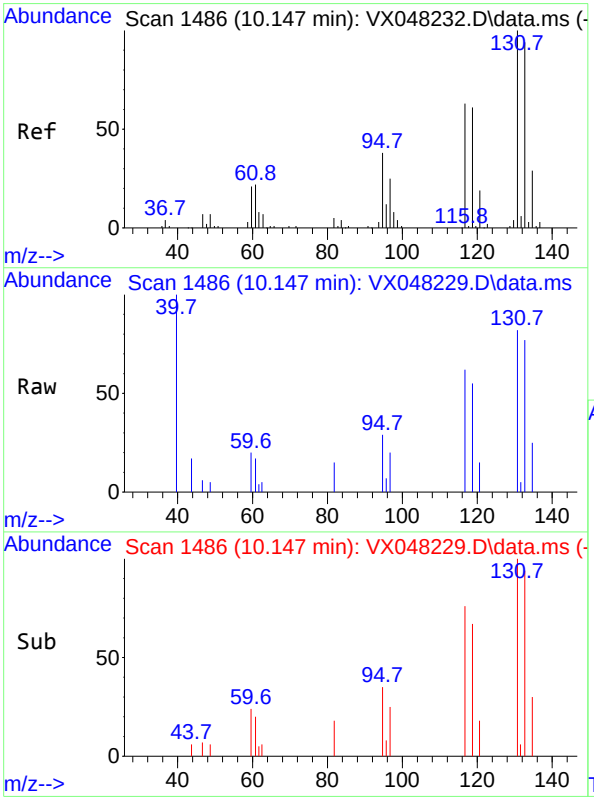
#65
Chlorobenzene
Concen: 1.021 ug/l
RT: 10.067 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:112 Resp: 4073

Ion	Ratio	Lower	Upper
112	100		
114	27.0	26.2	39.2

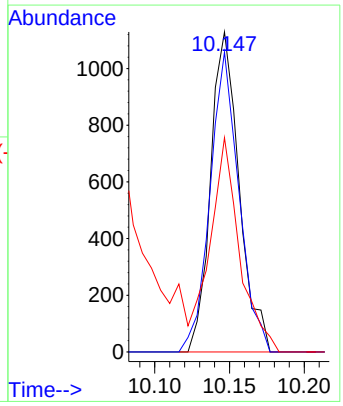


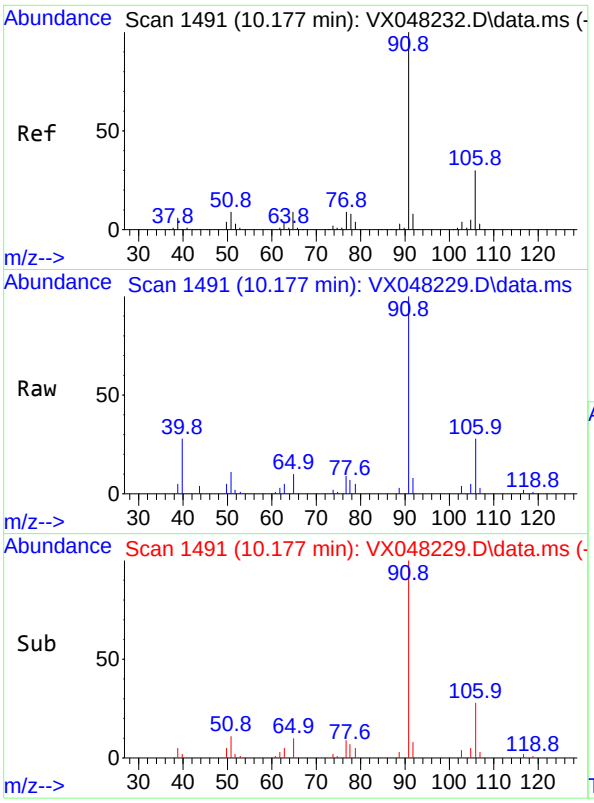


#66
1,1,1,2-Tetrachloroethane
Concen: 1.021 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:131 Resp: 1495

Ion	Ratio	Lower	Upper
131	100		
133	95.1	47.6	142.8
119	0.0	32.5	97.5#



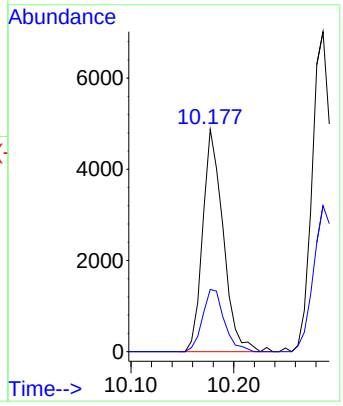


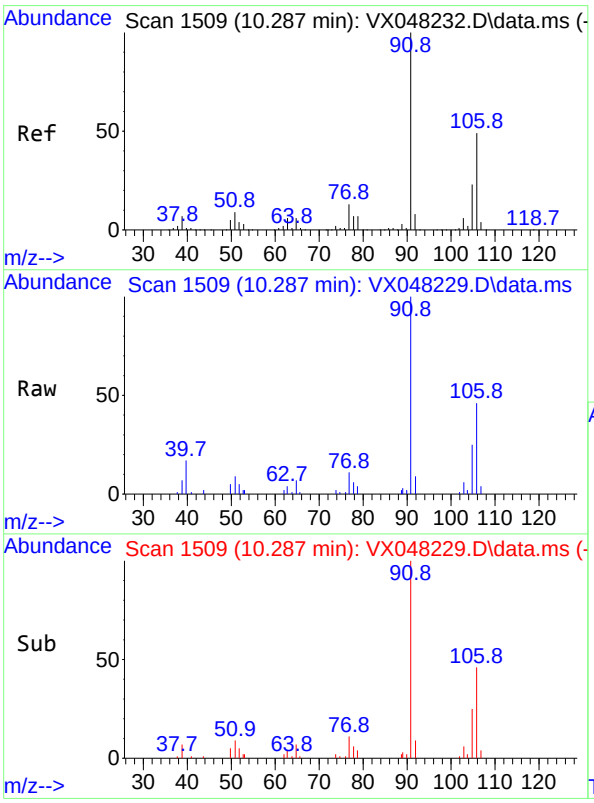
#67
Ethyl Benzene
Concen: 0.995 ug/l
RT: 10.177 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 6752

Ion	Ratio	Lower	Upper
91	100		
106	28.0	23.8	35.6

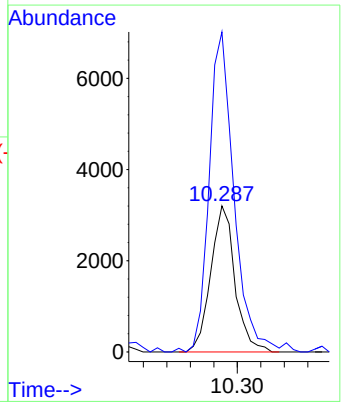


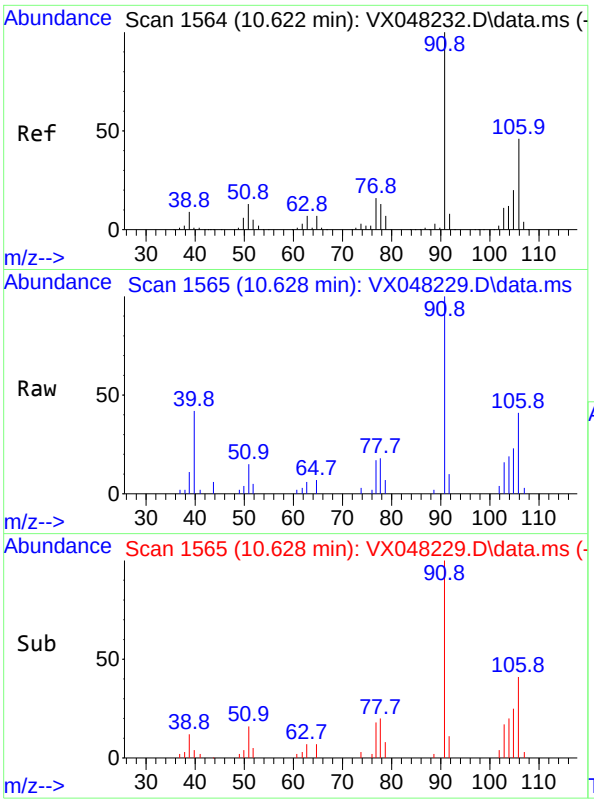


#68
m/p-Xylenes
Concen: 1.819 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:106 Resp: 4589

Ion	Ratio	Lower	Upper
106	100		
91	225.6	167.9	251.9



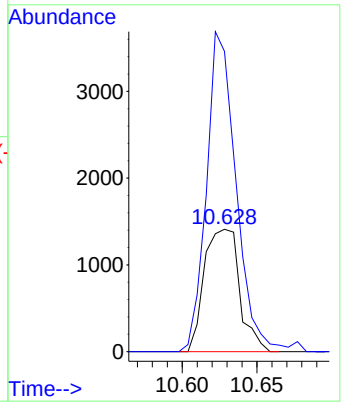


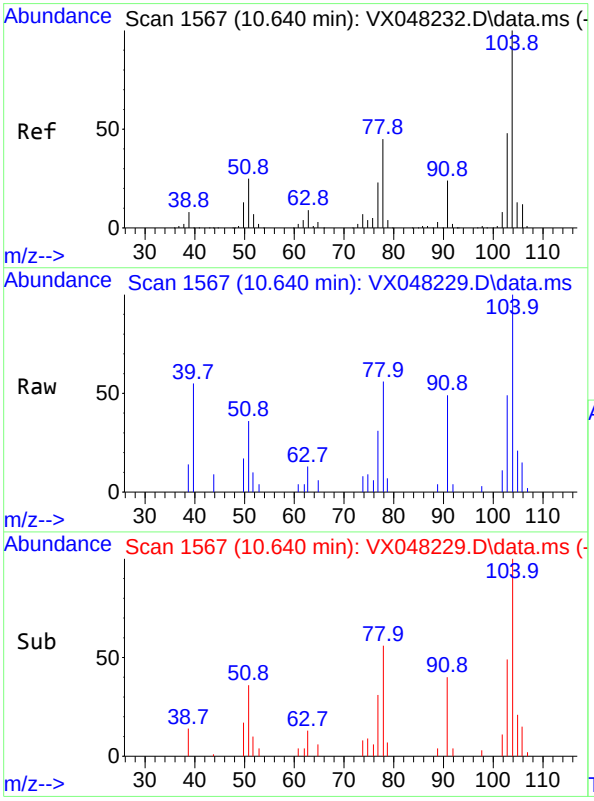
#69
o-Xylene
Concen: 0.950 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:106 Resp: 2313

Ion	Ratio	Lower	Upper
106	100		
91	221.2	111.3	333.9

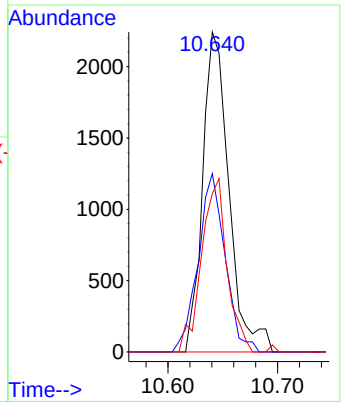


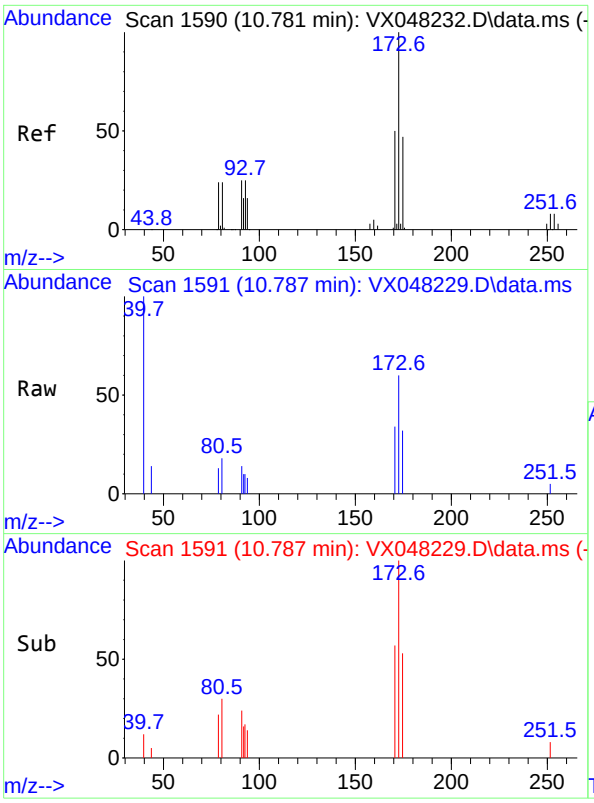


#70
Styrene
Concen: 0.901 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:104 Resp: 3737

Ion	Ratio	Lower	Upper
104	100		
78	57.1	42.2	63.4
103	52.6	43.0	64.4



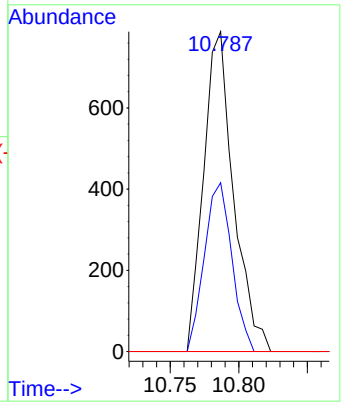


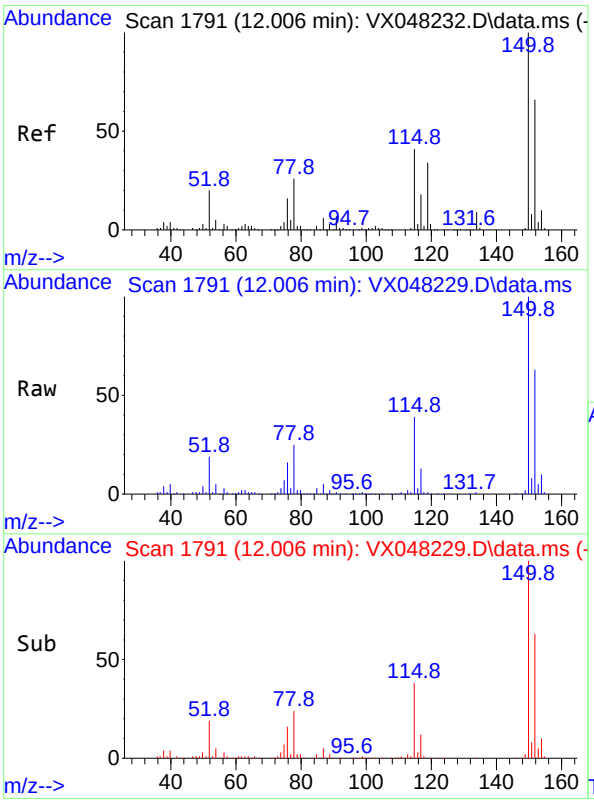
#71
Bromoform
Concen: 1.023 ug/l
RT: 10.787 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:173 Resp: 1198

Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.0	72.0
254	0.0	0.0	0.0

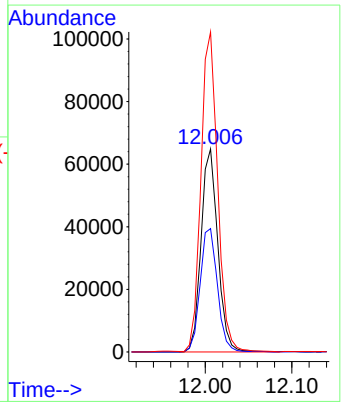


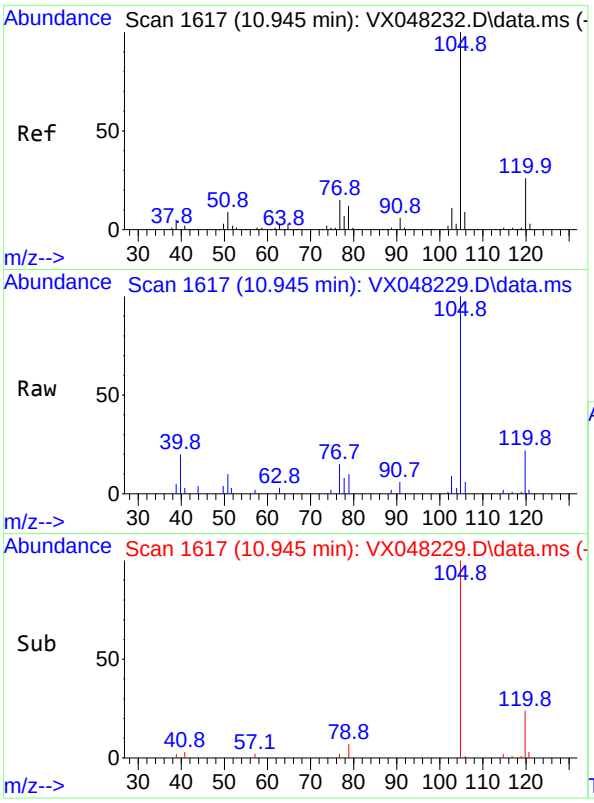


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:152 Resp: 86943

Ion	Ratio	Lower	Upper
152	100		
115	63.0	43.1	129.4
150	158.2	0.0	353.0



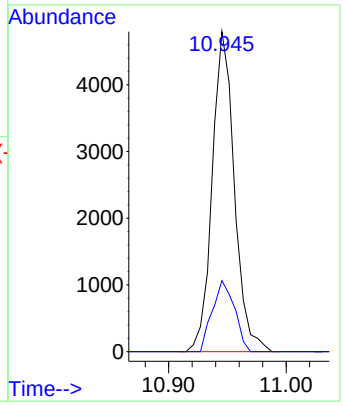


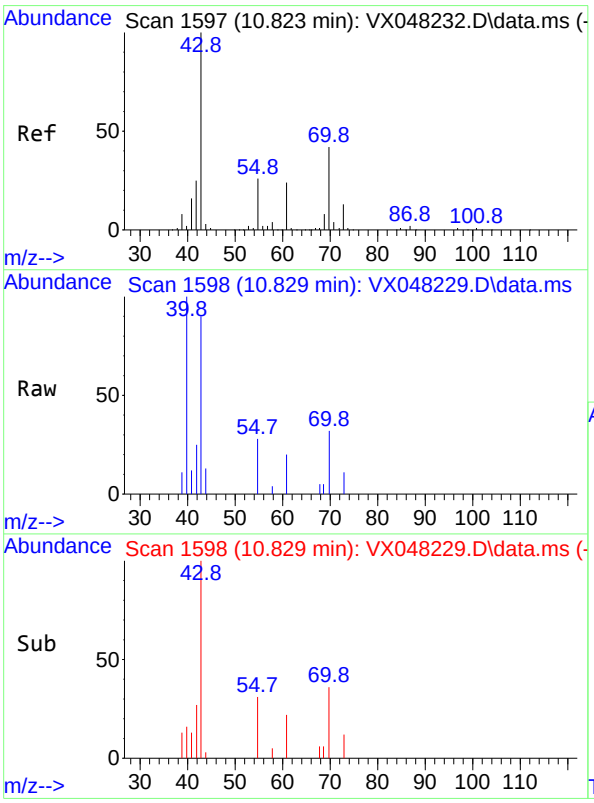
#73
Isopropylbenzene
Concen: 0.991 ug/l
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 6291

Ion	Ratio	Lower	Upper
105	100		
120	22.2	13.0	38.9

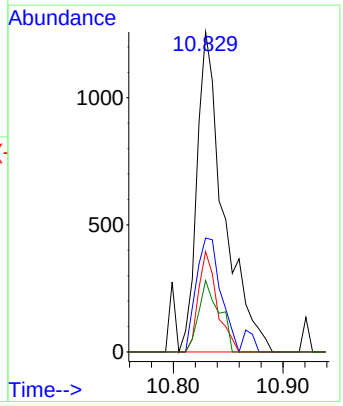


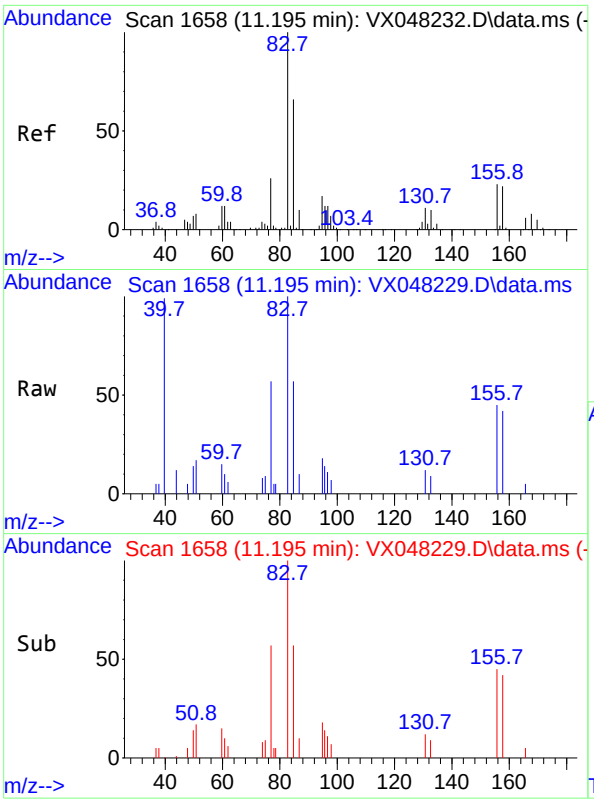


#74
N-amyl acetate
Concen: 0.949 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 43 Resp: 2137

Ion	Ratio	Lower	Upper
43	100		
70	32.8	32.2	48.2
55	22.0	19.1	28.7
61	17.2	18.6	28.0#



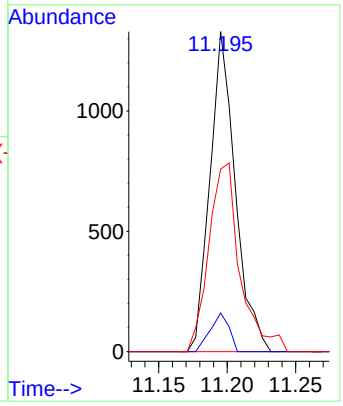


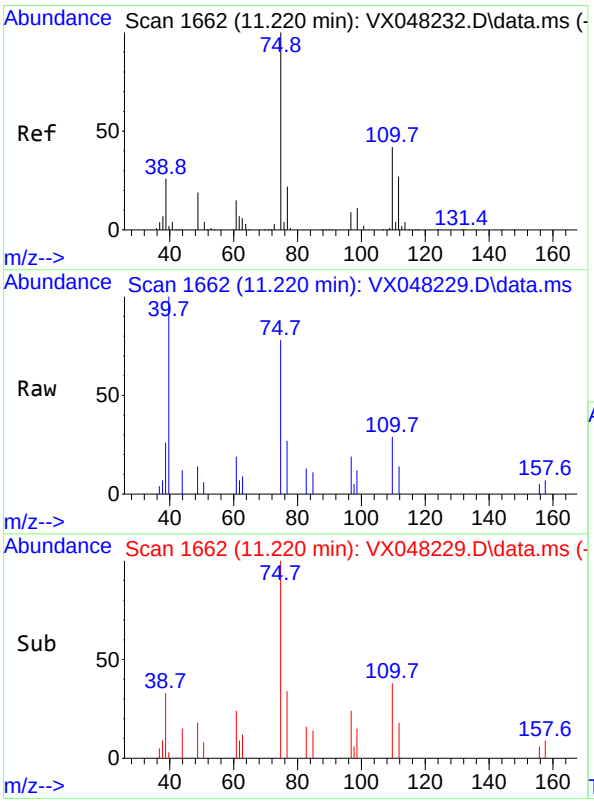
#75
1,1,2,2-Tetrachloroethane
Concen: 0.991 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 1718

Ion	Ratio	Lower	Upper
83	100		
131	8.9	4.8	14.4
85	72.1	31.9	95.7

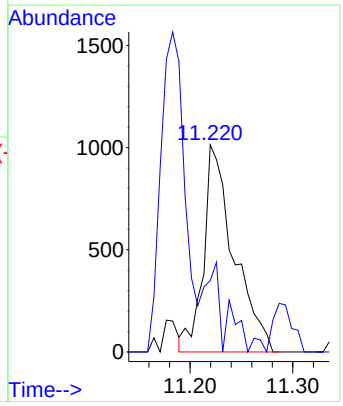


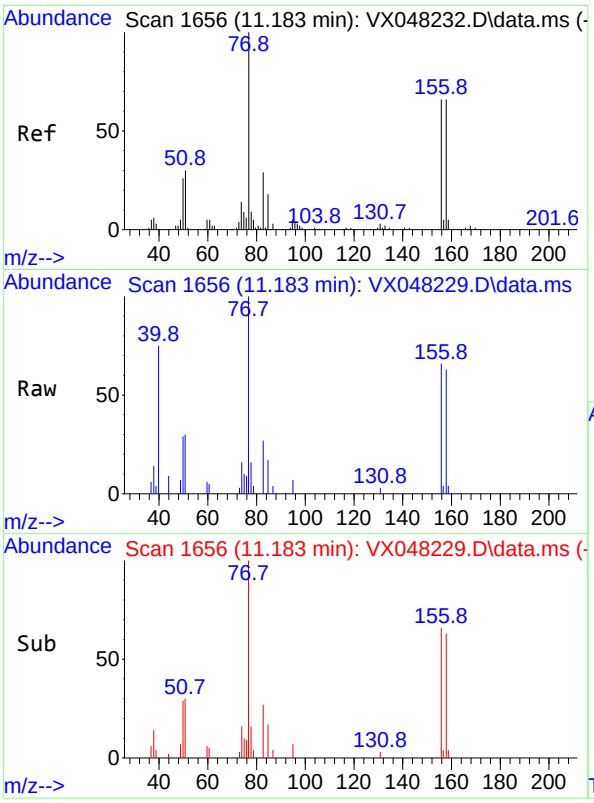


#76
1,2,3-Trichloropropane
Concen: 1.470 ug/l
RT: 11.220 min Scan# 1662
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 75 Resp: 2073

Ion	Ratio	Lower	Upper
75	100		
77	31.3	22.4	67.2



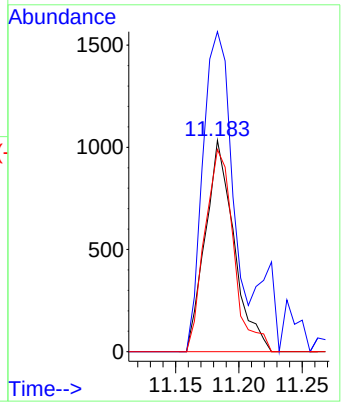


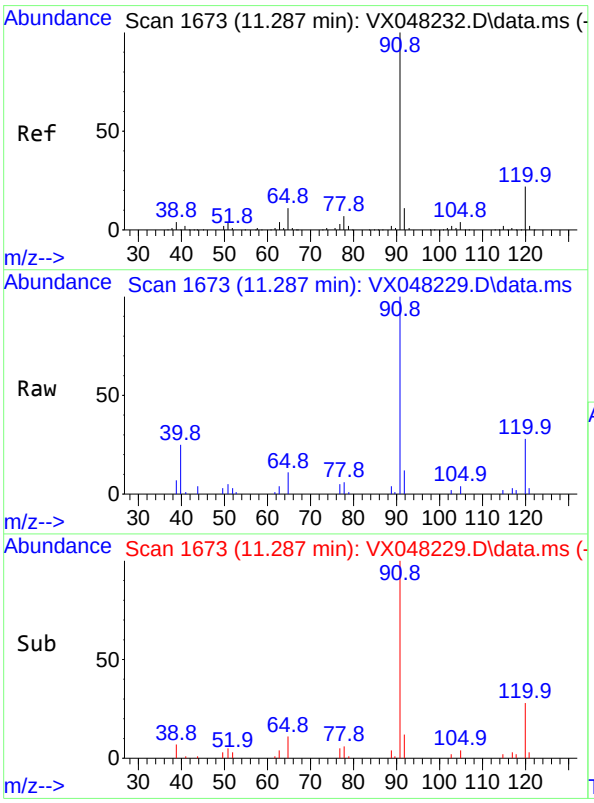
#77
Bromobenzene
Concen: 1.027 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:156 Resp: 1635

Ion	Ratio	Lower	Upper
156	100		
77	155.2	87.0	261.0
158	96.4	47.8	143.4

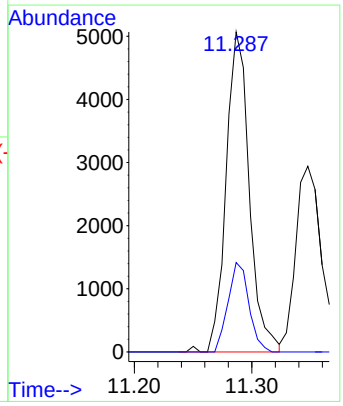


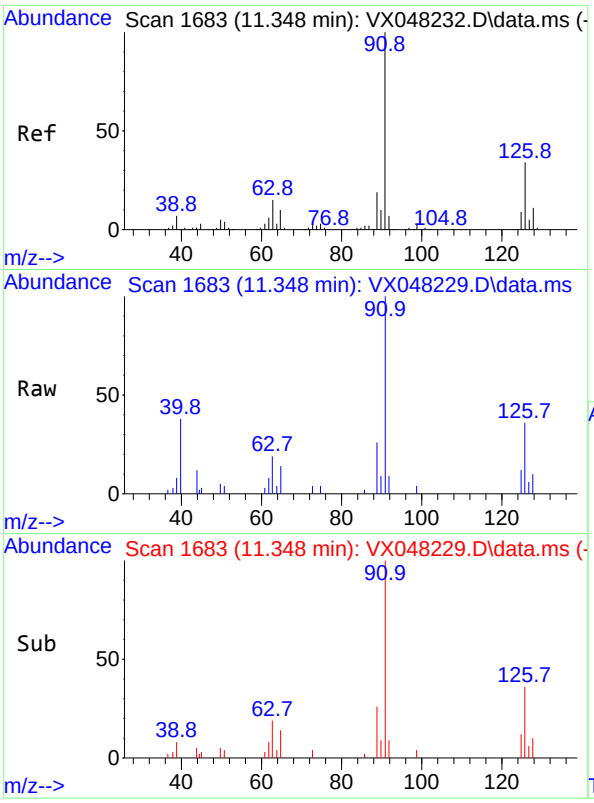


#78
n-propylbenzene
Concen: 0.946 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 91 Resp: 6956

Ion	Ratio	Lower	Upper
91	100		
120	25.2	11.1	33.1



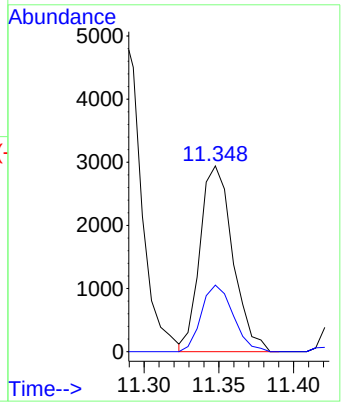


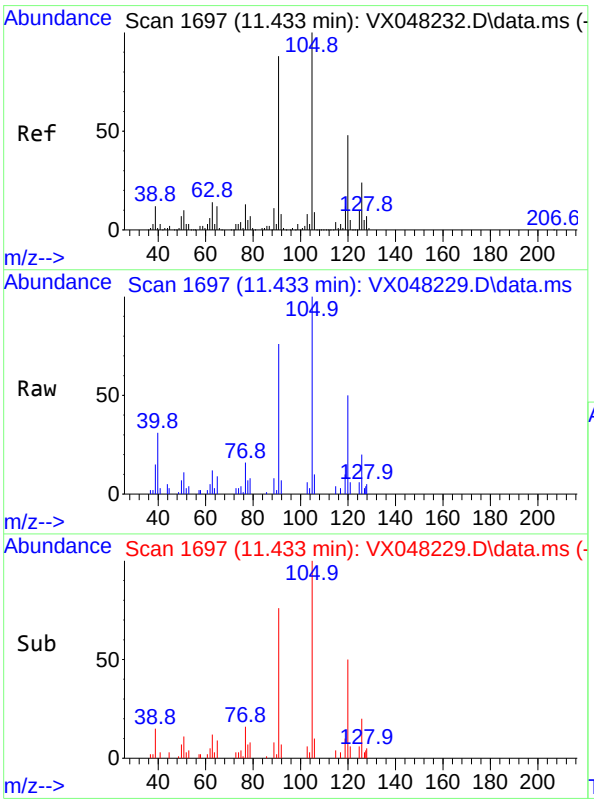
#79
2-Chlorotoluene
Concen: 1.004 ug/l
RT: 11.348 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 4477

Ion	Ratio	Lower	Upper
91	100		
126	34.8	16.4	49.4

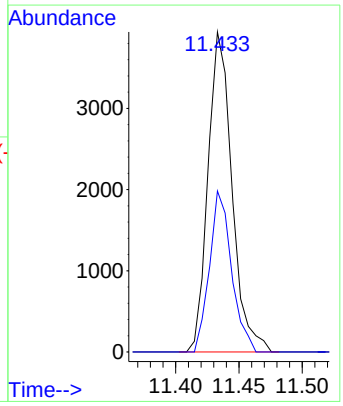


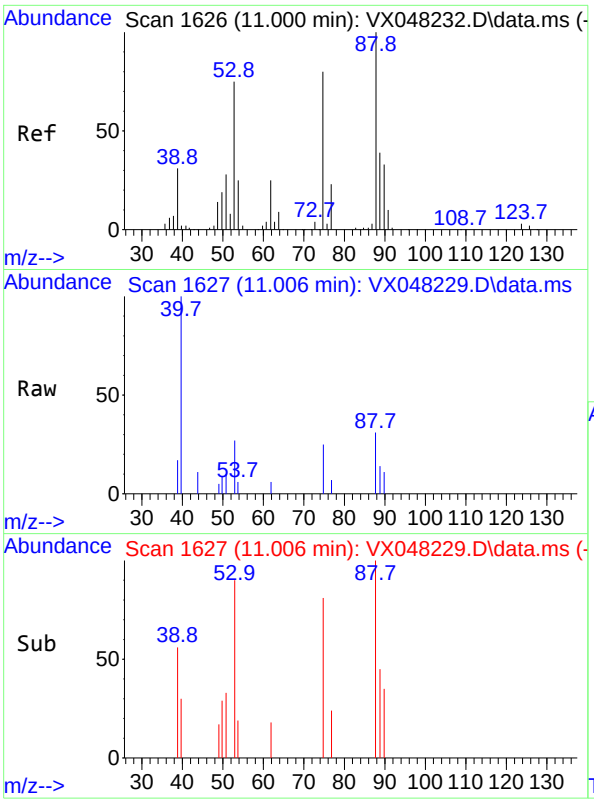


#80
1,3,5-Trimethylbenzene
Concen: 0.989 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:105 Resp: 5196

Ion	Ratio	Lower	Upper
105	100		
120	46.2	24.0	72.0



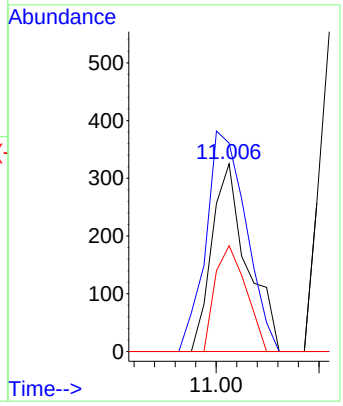


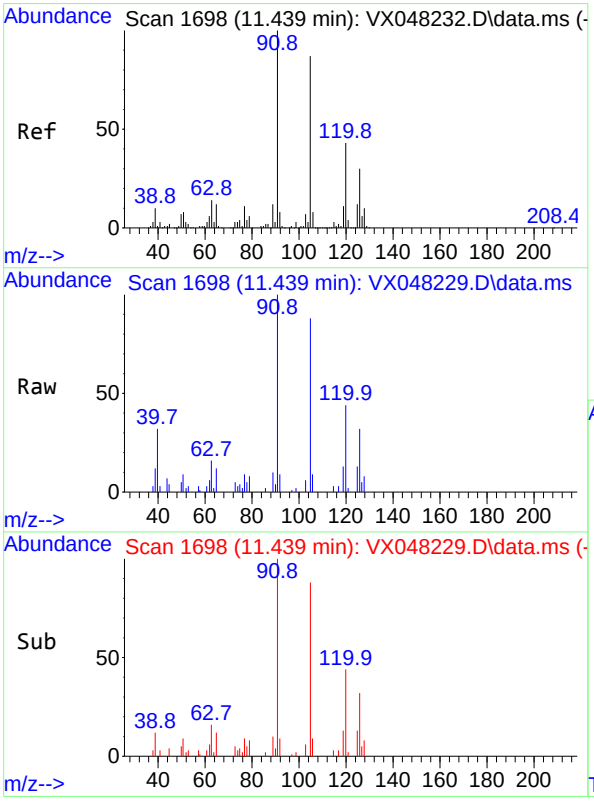
#81
trans-1,4-Dichloro-2-butene
Concen: 0.668 ug/l
RT: 11.006 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 387

Ion	Ratio	Lower	Upper
75	100		
53	133.9	79.5	119.3#
89	49.4	36.8	55.2

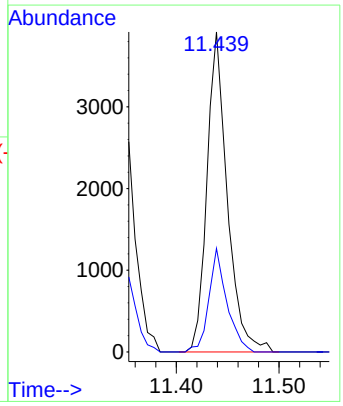


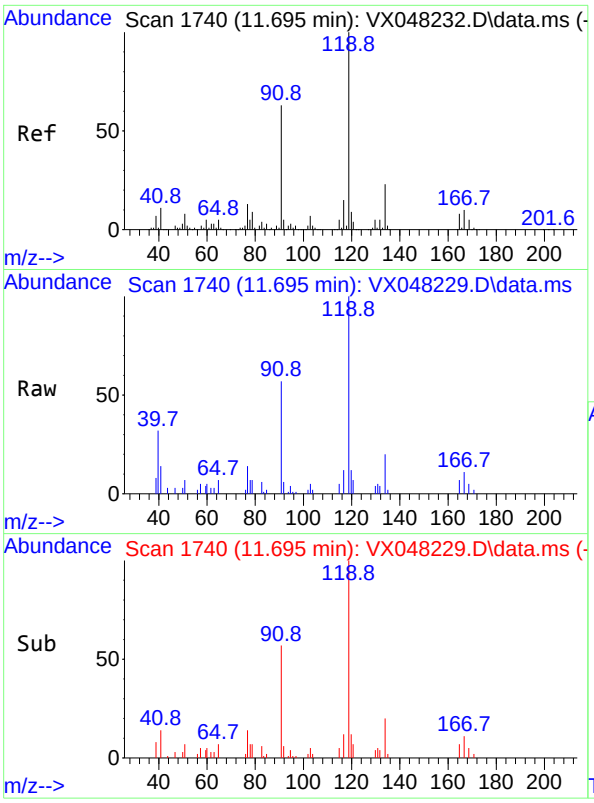


#82
4-Chlorotoluene
Concen: 1.018 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 91 Resp: 5385

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.1	42.4



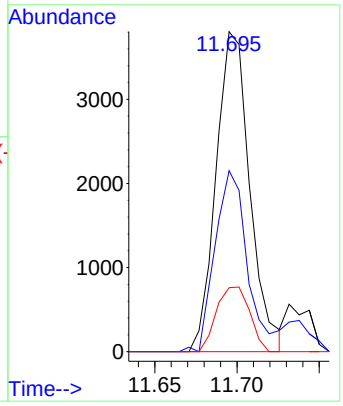


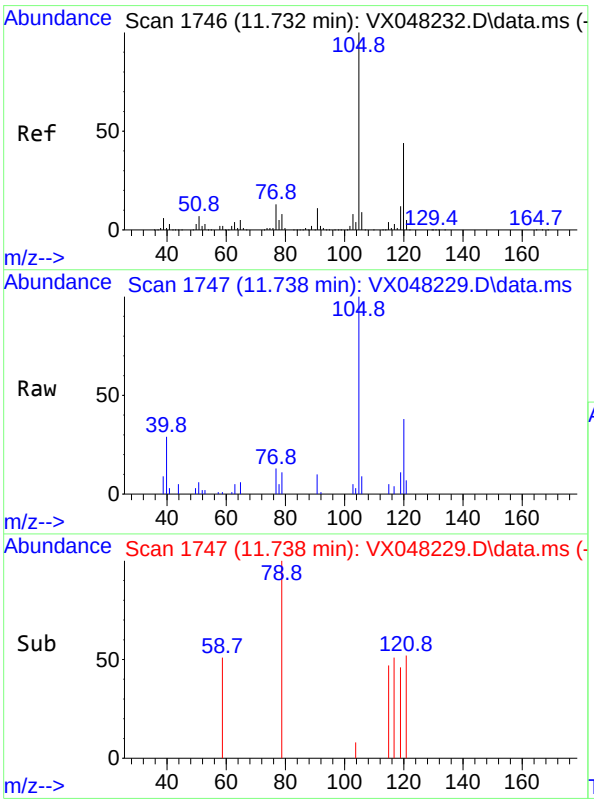
#83
tert-Butylbenzene
Concen: 1.007 ug/l
RT: 11.695 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:119 Resp: 5439

Ion	Ratio	Lower	Upper
119	100		
91	53.0	30.3	91.0
134	19.9	11.4	34.2

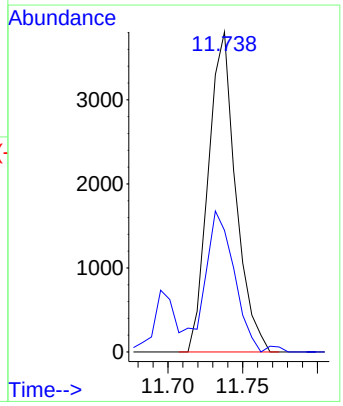


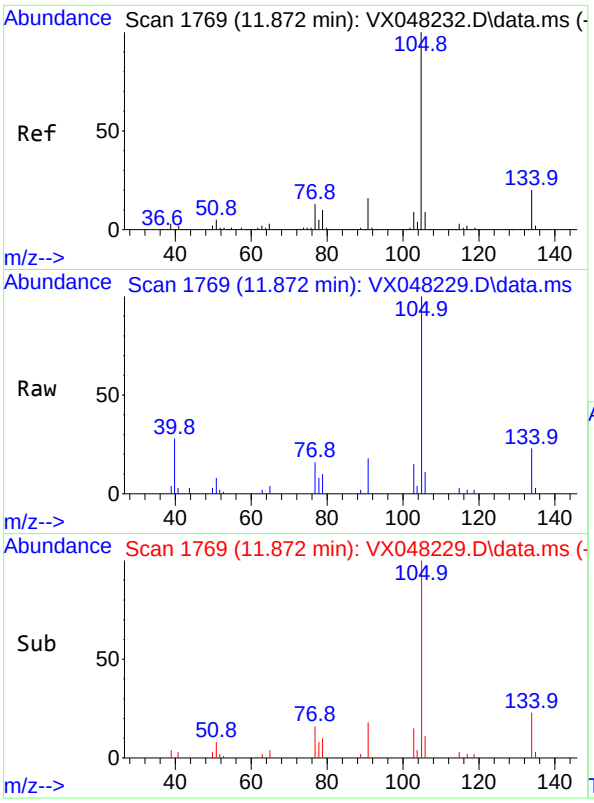


#84
1,2,4-Trimethylbenzene
Concen: 0.926 ug/l
RT: 11.738 min Scan# 1747
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:105 Resp: 4854

Ion	Ratio	Lower	Upper
105	100		
120	43.9	22.1	66.5



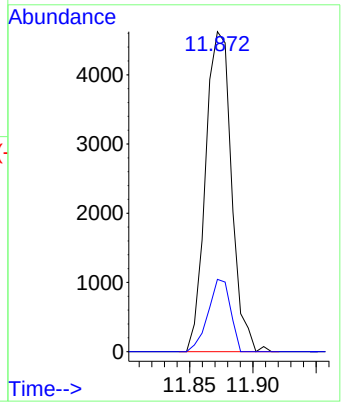


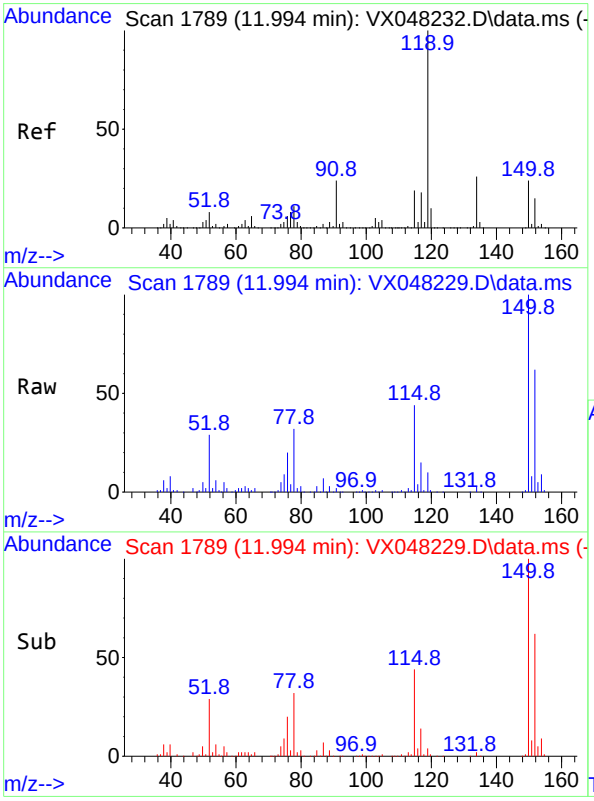
#85
sec-Butylbenzene
Concen: 1.014 ug/l
RT: 11.872 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 6589

Ion	Ratio	Lower	Upper
105	100		
134	19.4	10.1	30.1

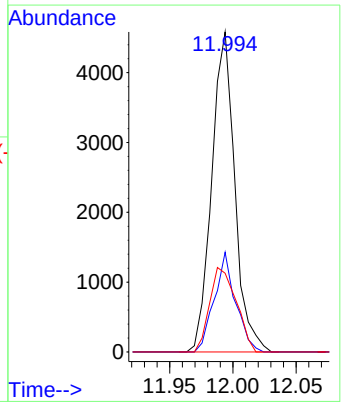


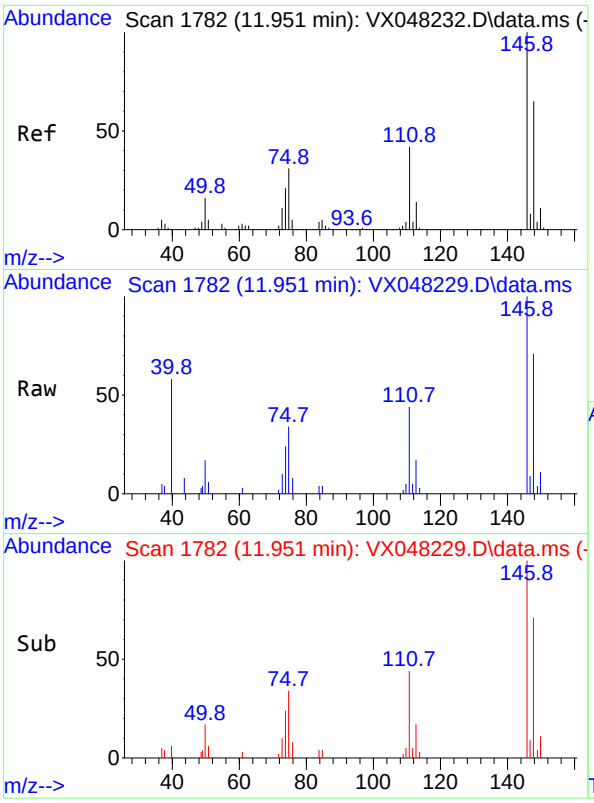


#86
p-Isopropyltoluene
Concen: 1.035 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:119 Resp: 5812

Ion	Ratio	Lower	Upper
119	100		
134	28.8	13.0	39.0
91	30.5	12.1	36.3



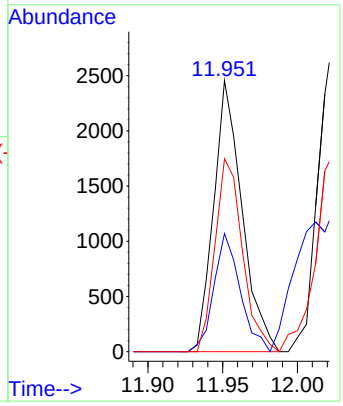


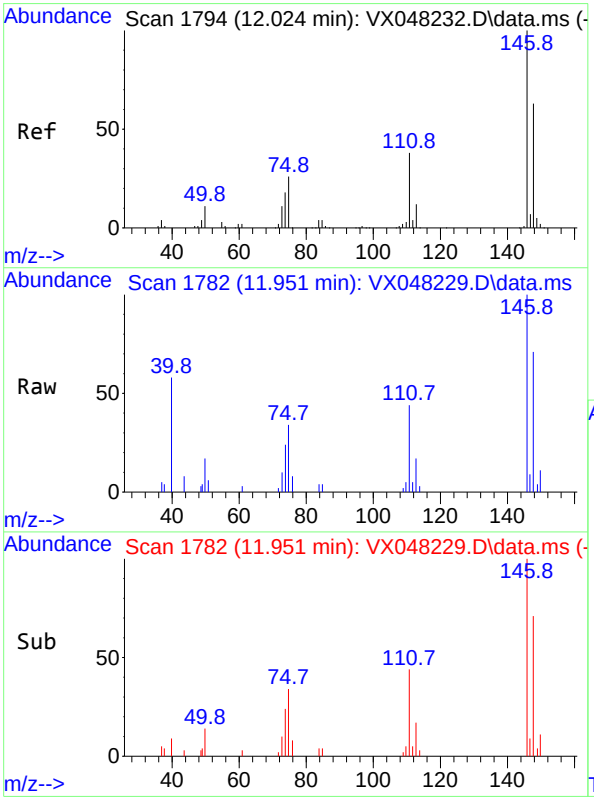
#87
1,3-Dichlorobenzene
Concen: 1.079 ug/l
RT: 11.951 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 3239

Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.4	61.2
148	68.9	31.9	95.9

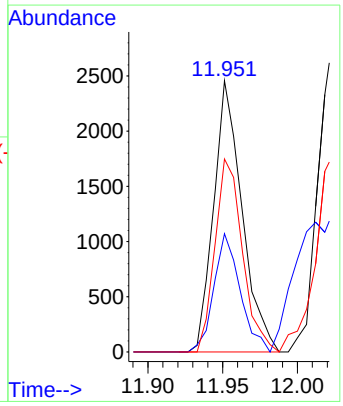


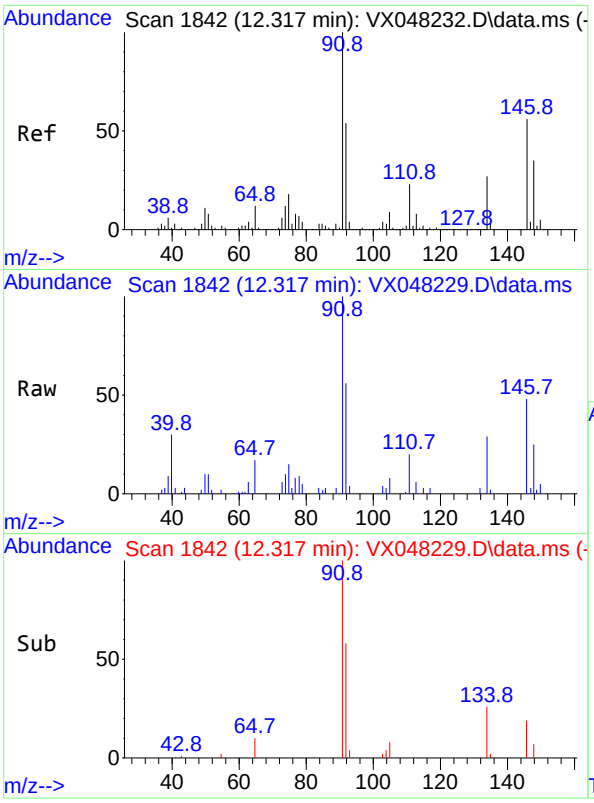


#88
1,4-Dichlorobenzene
Concen: 1.042 ug/l
RT: 11.951 min Scan# 1782
Delta R.T. -0.073 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:146 Resp: 3239

Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.1	60.2
148	68.9	31.8	95.3



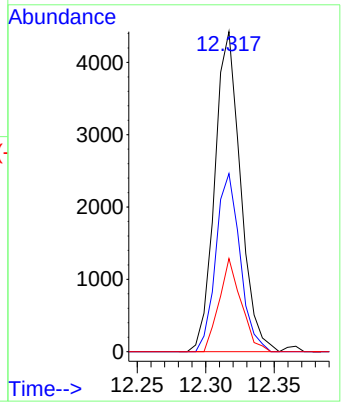


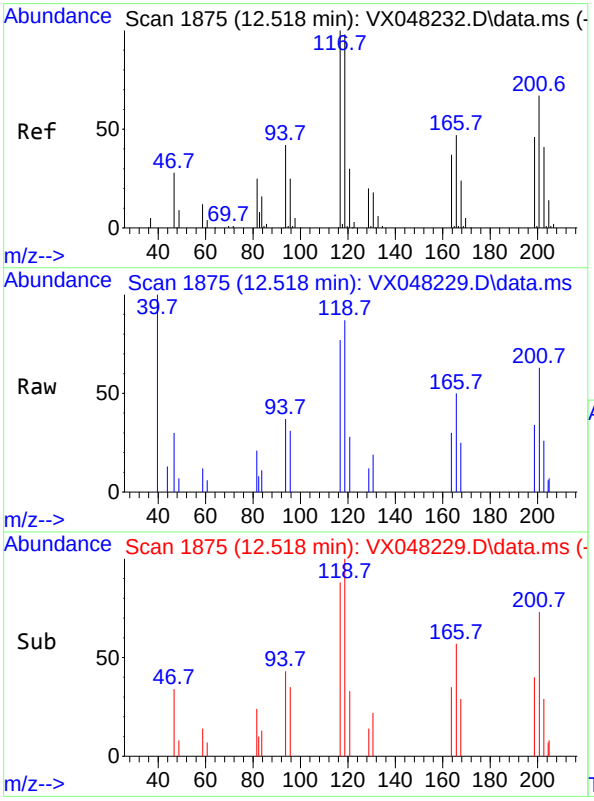
#89
n-Butylbenzene
Concen: 1.132 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 5787

Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.9	80.6
134	24.9	12.7	38.1

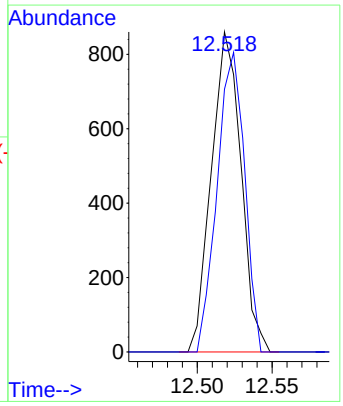


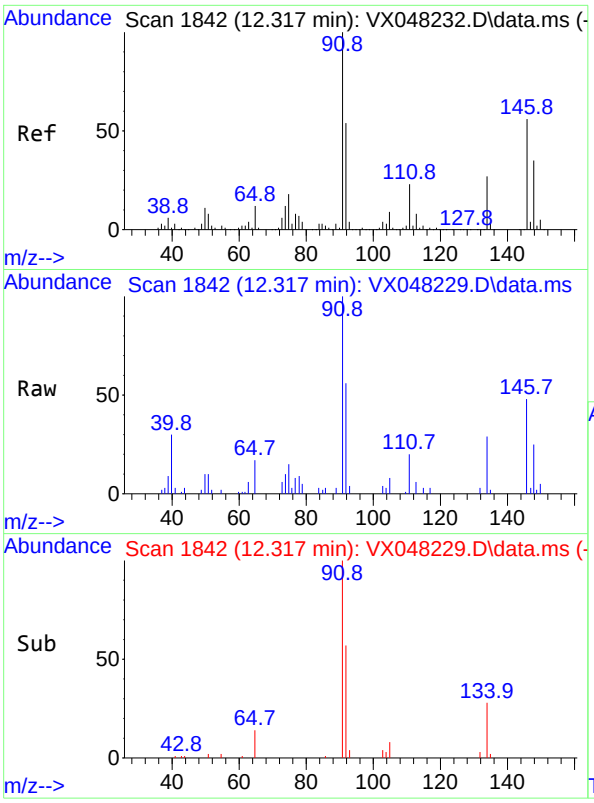


#90
Hexachloroethane
Concen: 1.066 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:117 Resp: 1182

Ion	Ratio	Lower	Upper
117	100		
201	87.1	34.1	102.2



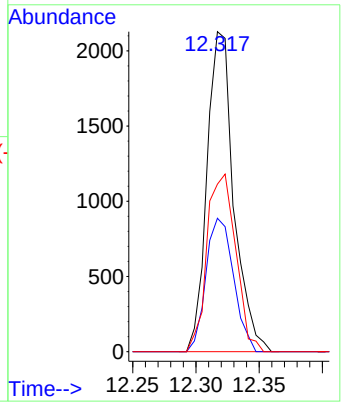


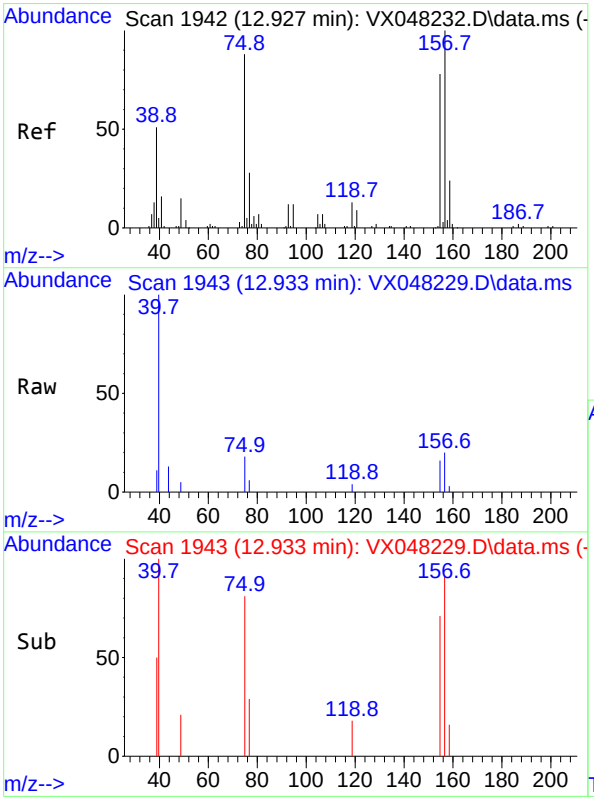
#91
1,2-Dichlorobenzene
Concen: 1.112 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 3135

Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.9	65.5
148	59.5	31.9	95.5

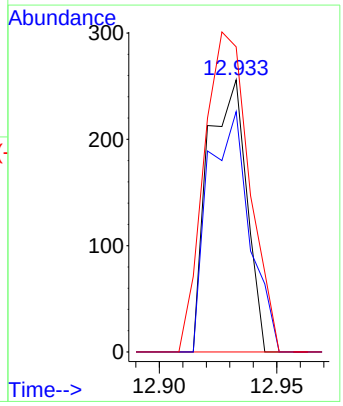


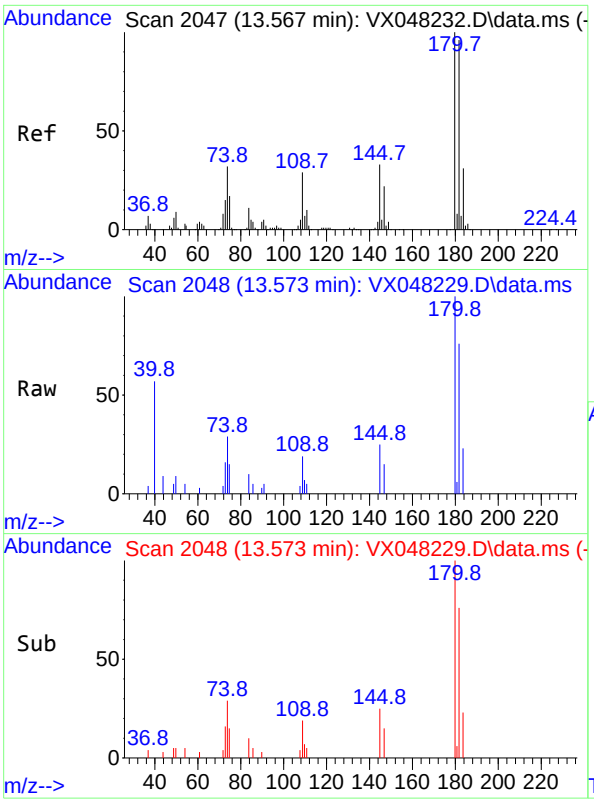


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.824 ug/l
RT: 12.933 min Scan# 1943
Delta R.T. 0.012 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 75 Resp: 290

Ion	Ratio	Lower	Upper
75	100		
155	95.2	42.8	128.4
157	139.0	54.2	162.6



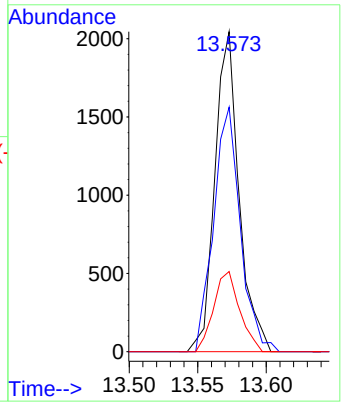


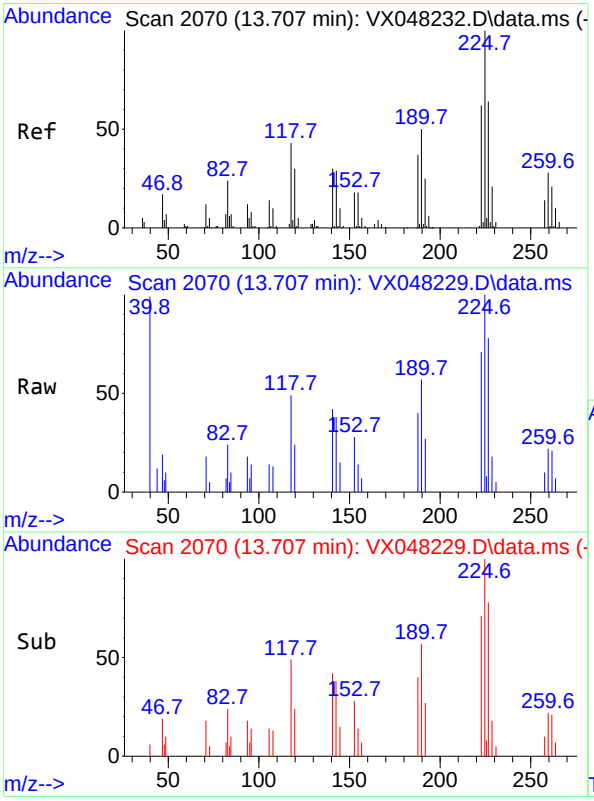
#93
1,2,4-Trichlorobenzene
Concen: 1.314 ug/l
RT: 13.573 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:180 Resp: 2505

Ion	Ratio	Lower	Upper
180	100		
182	84.5	47.3	142.0
145	27.1	16.3	48.9

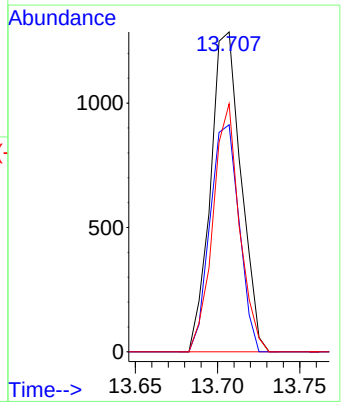


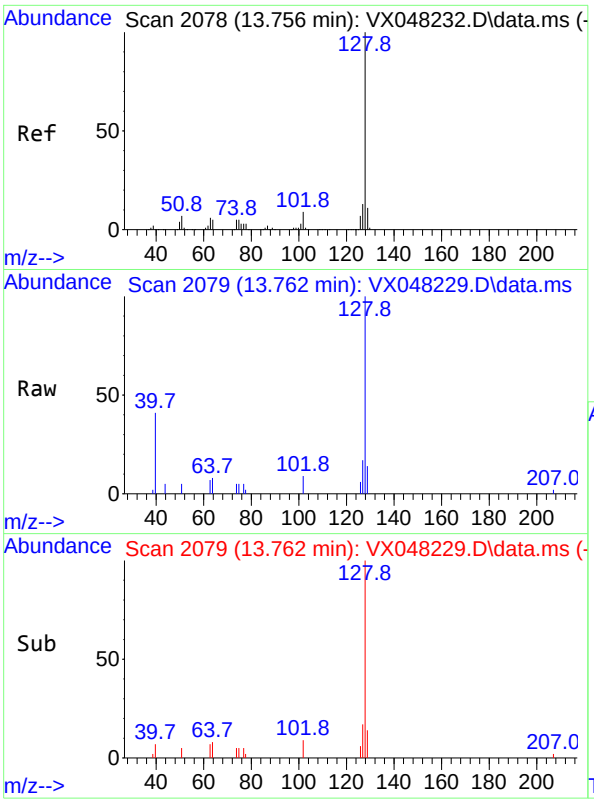


#94
Hexachlorobutadiene
Concen: 2.385 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:225 Resp: 1658

Ion	Ratio	Lower	Upper
225	100		
223	67.8	32.6	97.7
227	67.7	32.5	97.4



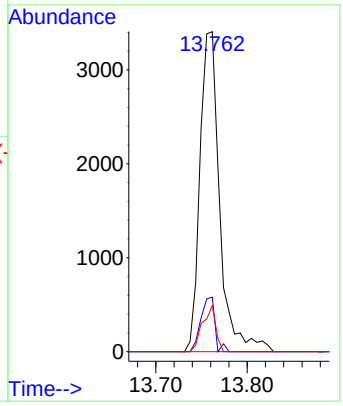


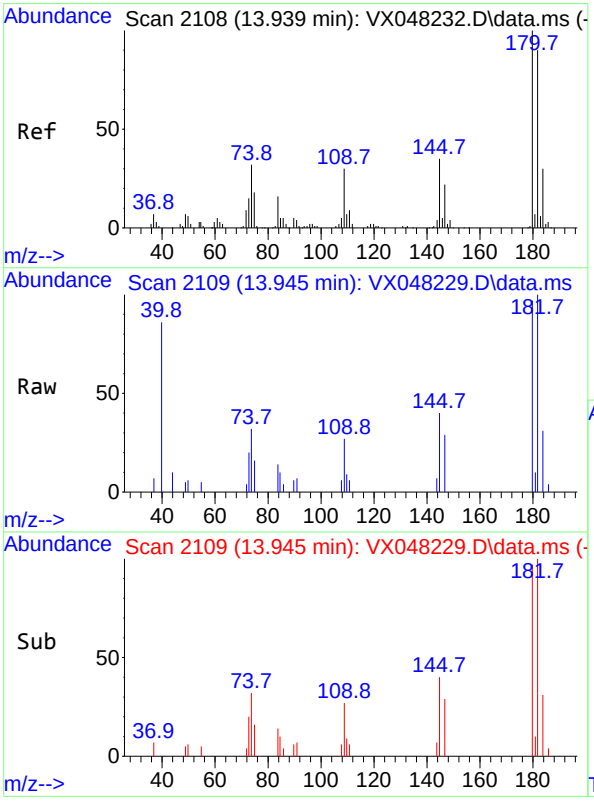
#95
Naphthalene
Concen: 1.013 ug/l
RT: 13.762 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:128 Resp: 5116

Ion	Ratio	Lower	Upper
128	100		
127	12.1	10.2	15.4
129	9.7	8.6	12.8

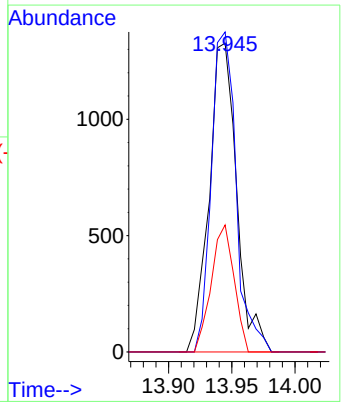




#96
1,2,3-Trichlorobenzene
Concen: 1.147 ug/l
RT: 13.945 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:180 Resp: 2006

Ion	Ratio	Lower	Upper
180	100		
182	93.5	46.6	139.7
145	34.1	16.9	50.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048231.D
Acq On : 20 Oct 2025 11:40
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : VSTDICC020

Quant Time: Oct 25 03:34:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	119626	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	195028	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	178975	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	90972	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	33936	20.233	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 40.460%#			
35) Dibromofluoromethane	5.373	113	26897	20.201	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 40.400%#			
50) Toluene-d8	8.635	98	92476	19.815	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 39.640%#			
62) 4-Bromofluorobenzene	11.061	95	34724	19.558	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 39.120%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	24524	19.942	ug/l	98
3) Chloromethane	1.300	50	22401	19.515	ug/l	100
4) Vinyl Chloride	1.380	62	20913	19.675	ug/l	94
5) Bromomethane	1.617	94	15473	21.449	ug/l	100
6) Chloroethane	1.697	64	13249	21.212	ug/l	93
7) Trichlorofluoromethane	1.898	101	41824	20.516	ug/l	98
8) Diethyl Ether	2.136	74	12293	21.431	ug/l	87
9) 1,1,2-Trichlorotrifluo...	2.337	101	25843	20.019	ug/l	96
10) Methyl Iodide	2.459	142	30452	18.764	ug/l	99
11) Tert butyl alcohol	2.947	59	16521	99.208	ug/l	100
12) 1,1-Dichloroethene	2.325	96	26209	20.868	ug/l	92
13) Acrolein	2.239	56	15157	89.242	ug/l	99
14) Allyl chloride	2.666	41	43494	20.859	ug/l	98
15) Acrylonitrile	3.056	53	63931	106.465	ug/l	97
16) Acetone	2.373	43	59884	104.075	ug/l	96
17) Carbon Disulfide	2.520	76	77142	19.489	ug/l	98
18) Methyl Acetate	2.703	43	26374	21.948	ug/l	92
19) Methyl tert-butyl Ether	3.111	73	91349	21.321	ug/l	100
20) Methylene Chloride	2.794	84	31157	22.223	ug/l	88
21) trans-1,2-Dichloroethene	3.093	96	28001	20.297	ug/l	94
22) Diisopropyl ether	3.751	45	90030	21.648	ug/l	87
23) Vinyl Acetate	3.715	43	364009	109.571	ug/l	98
24) 1,1-Dichloroethane	3.605	63	51927	20.649	ug/l	98
25) 2-Butanone	4.544	43	78643	107.982	ug/l	95
26) 2,2-Dichloropropane	4.465	77	46568	20.516	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	33508	20.812	ug/l	98
28) Bromochloromethane	4.891	49	19339	18.547	ug/l	90
29) Tetrahydrofuran	4.995	42	47457	108.802	ug/l	94
30) Chloroform	5.080	83	57780	21.506	ug/l	99
31) Cyclohexane	5.464	56	42796	20.556	ug/l	95
32) 1,1,1-Trichloroethane	5.373	97	51929	20.972	ug/l	98
36) 1,1-Dichloropropene	5.684	75	38270	20.223	ug/l	99
37) Ethyl Acetate	4.702	43	30904	19.702	ug/l #	95
38) Carbon Tetrachloride	5.666	117	46323	19.841	ug/l	98
39) Methylcyclohexane	7.366	83	42776	19.140	ug/l	94
40) Benzene	6.025	78	115488	21.020	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048231.D
Acq On : 20 Oct 2025 11:40
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Oct 25 03:34:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	18461	22.411	ug/l		97
42) 1,2-Dichloroethane	6.074	62	44176	21.789	ug/l		100
43) Isopropyl Acetate	6.324	43	55317	21.469	ug/l		96
44) Trichloroethene	7.110	130	29108	20.064	ug/l		90
45) 1,2-Dichloropropane	7.421	63	28242	21.620	ug/l		97
46) Dibromomethane	7.568	93	21605	21.229	ug/l		92
47) Bromodichloromethane	7.805	83	46221	21.034	ug/l		100
48) Methyl methacrylate	7.677	41	27751	21.344	ug/l		94
49) 1,4-Dioxane	7.647	88	7620	443.623	ug/l		91
51) 4-Methyl-2-Pentanone	8.555	43	164708	110.873	ug/l		94
52) Toluene	8.702	92	73623	21.093	ug/l		98
53) t-1,3-Dichloropropene	8.964	75	45416	21.447	ug/l		99
54) cis-1,3-Dichloropropene	8.354	75	47130	20.629	ug/l		96
55) 1,1,2-Trichloroethane	9.134	97	27884	21.482	ug/l		98
56) Ethyl methacrylate	9.104	69	41809	22.021	ug/l		93
57) 1,3-Dichloropropane	9.293	76	47896	21.602	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.226	63	104883	103.739	ug/l		96
59) 2-Hexanone	9.415	43	116268	112.243	ug/l		95
60) Dibromochloromethane	9.506	129	37127	21.281	ug/l		98
61) 1,2-Dibromoethane	9.598	107	30639	22.141	ug/l		96
64) Tetrachloroethene	9.256	164	27043	20.240	ug/l		89
65) Chlorobenzene	10.061	112	83004	20.617	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.146	131	30278	20.475	ug/l		98
67) Ethyl Benzene	10.177	91	139895	20.409	ug/l		98
68) m/p-Xylenes	10.287	106	107377	42.161	ug/l		100
69) o-Xylene	10.622	106	50950	20.721	ug/l		98
70) Styrene	10.640	104	88481	21.134	ug/l		99
71) Bromoform	10.780	173	25027	21.175	ug/l	#	100
73) Isopropylbenzene	10.945	105	133034	20.021	ug/l		99
74) N-amyl acetate	10.829	43	48726	20.674	ug/l		96
75) 1,1,2,2-Tetrachloroethane	11.195	83	38748	21.354	ug/l		98
76) 1,2,3-Trichloropropane	11.219	75	40571	27.501	ug/l		84
77) Bromobenzene	11.183	156	33843	20.313	ug/l		95
78) n-propylbenzene	11.286	91	154839	20.126	ug/l		98
79) 2-Chlorotoluene	11.347	91	95156	20.401	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	112057	20.379	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	12001	19.791	ug/l		94
82) 4-Chlorotoluene	11.439	91	113495	20.498	ug/l		98
83) tert-Butylbenzene	11.695	119	112305	19.878	ug/l		97
84) 1,2,4-Trimethylbenzene	11.732	105	111976	20.405	ug/l		100
85) sec-Butylbenzene	11.872	105	134014	19.716	ug/l		100
86) p-Isopropyltoluene	11.994	119	114969	19.568	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	63377	20.178	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	65612	20.165	ug/l		99
89) n-Butylbenzene	12.317	91	102140	19.100	ug/l		99
90) Hexachloroethane	12.518	117	22609	19.487	ug/l		94
91) 1,2-Dichlorobenzene	12.317	146	59345	20.125	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	7983	21.674	ug/l		94
93) 1,2,4-Trichlorobenzene	13.567	180	35465	17.784	ug/l		98
94) Hexachlorobutadiene	13.707	225	14529	19.483	ug/l		98
95) Naphthalene	13.756	128	104803	19.836	ug/l		99
96) 1,2,3-Trichlorobenzene	13.945	180	34276	18.730	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048231.D
Acq On : 20 Oct 2025 11:40
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Oct 25 03:34:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

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

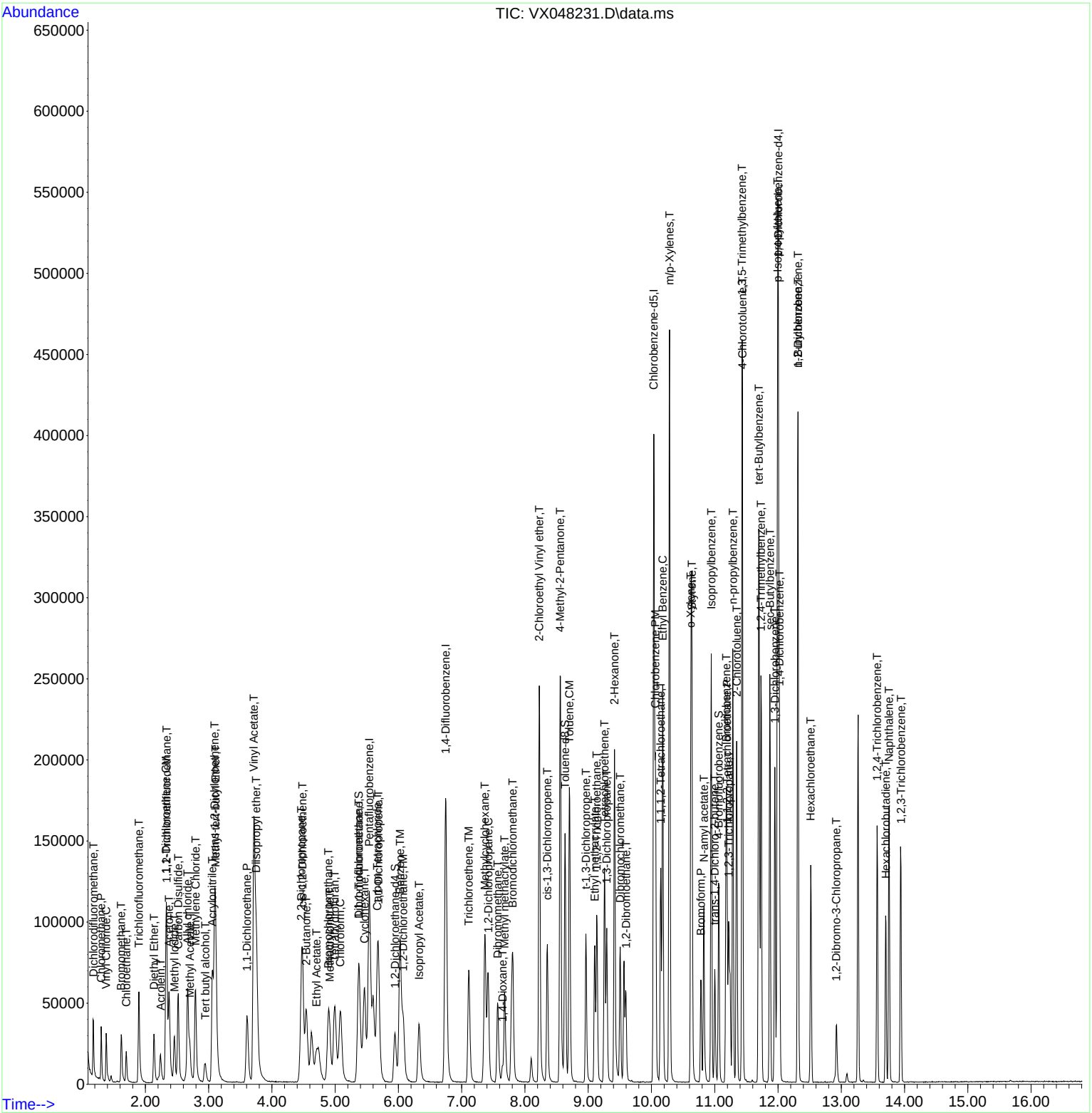
(#) = qualifier out of range (m) = manual integration (+) = signals summed

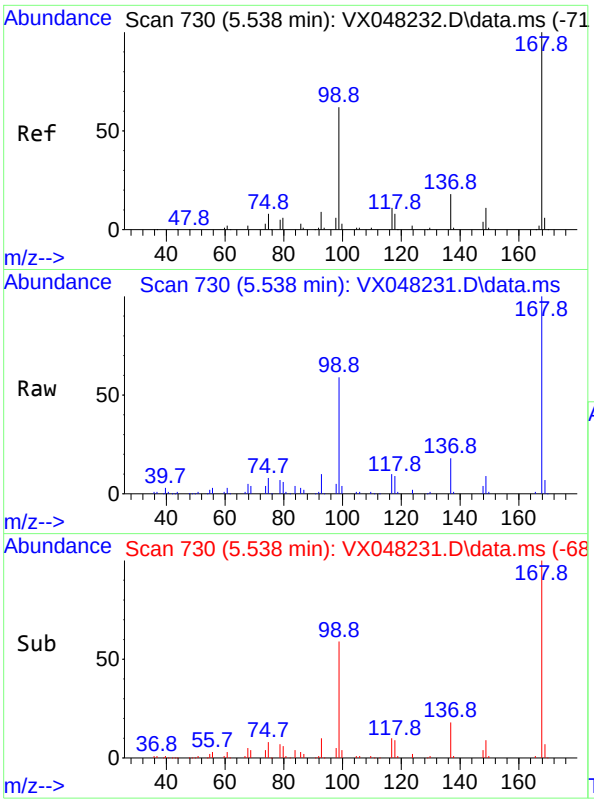
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048231.D
Acq On : 20 Oct 2025 11:40
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Oct 25 03:34:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration



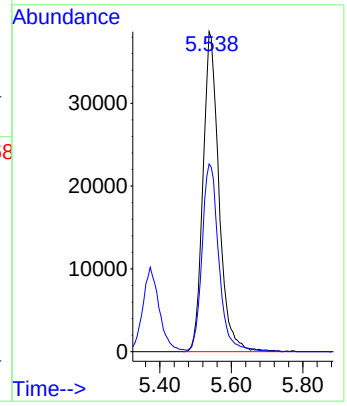


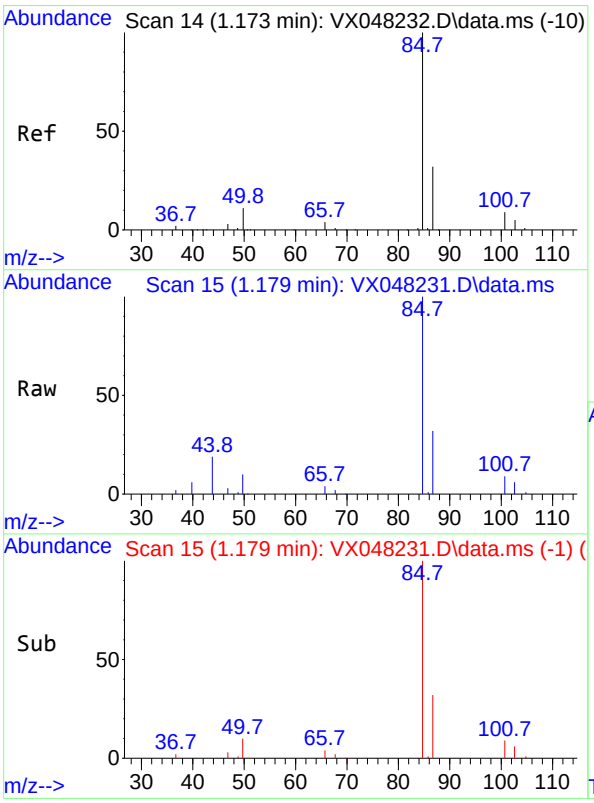
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 119626

Ion	Ratio	Lower	Upper
168	100		
99	58.7	46.4	69.6

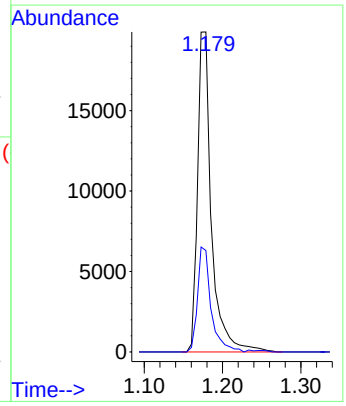


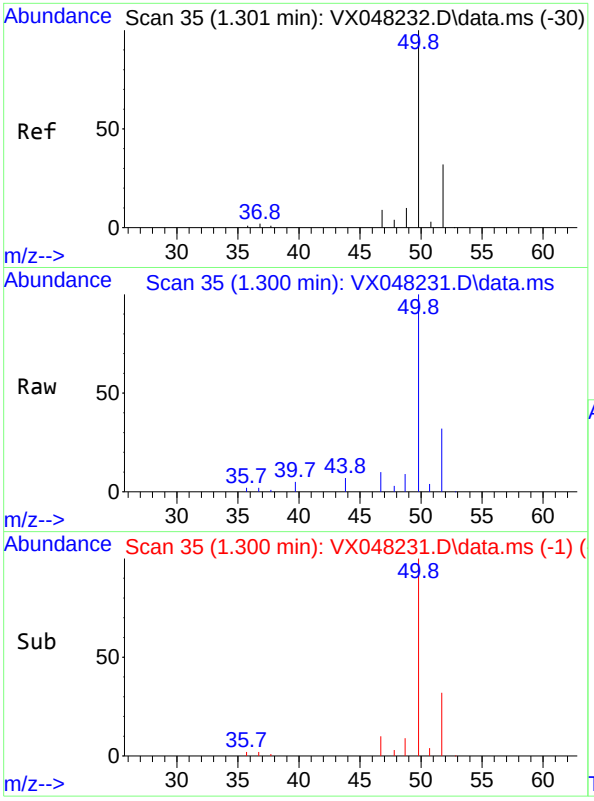


#2
Dichlorodifluoromethane
Concen: 19.942 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 85 Resp: 24524

Ion	Ratio	Lower	Upper
85	100		
87	31.7	15.3	45.9



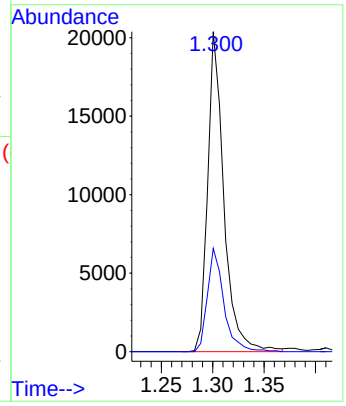


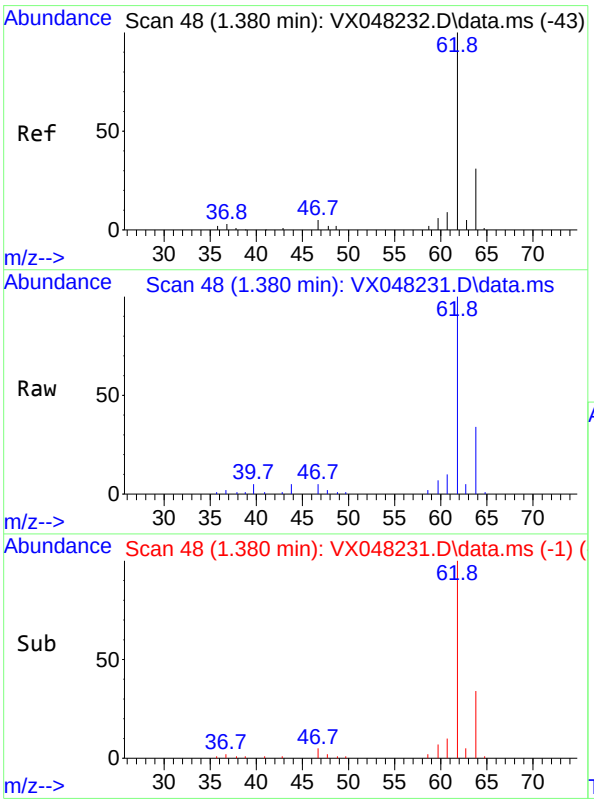
#3
Chloromethane
Concen: 19.515 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 22401

Ion	Ratio	Lower	Upper
50	100		
52	32.3	25.9	38.9

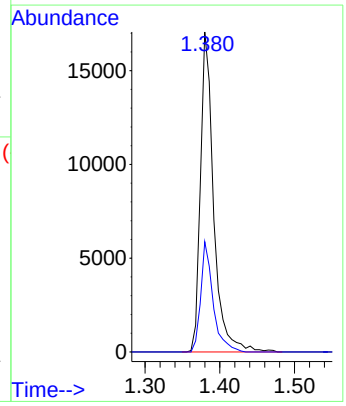


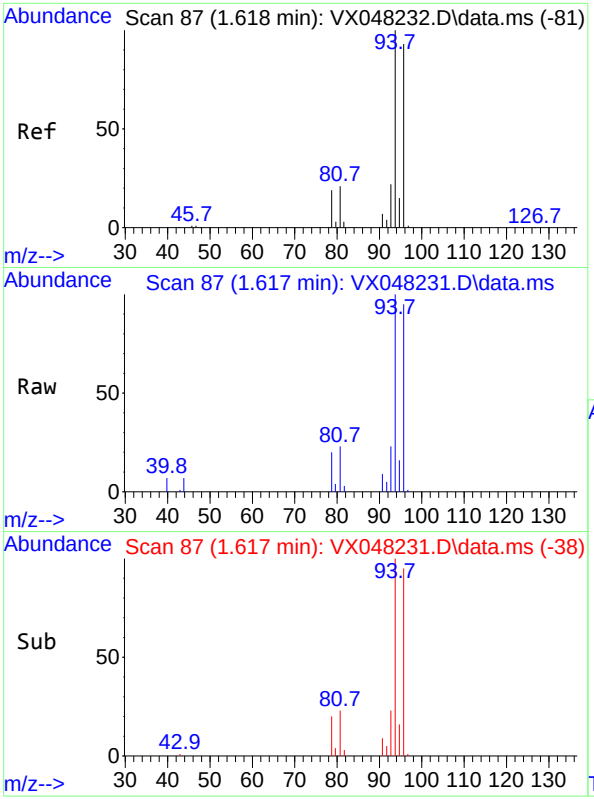


#4
Vinyl Chloride
Concen: 19.675 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 62 Resp: 20913

Ion	Ratio	Lower	Upper
62	100		
64	34.5	25.1	37.7



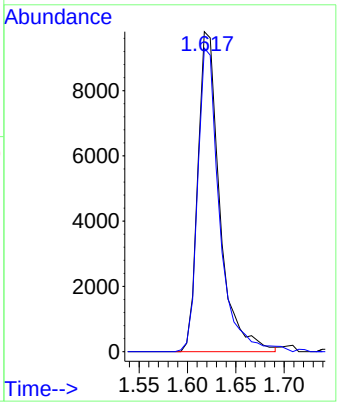


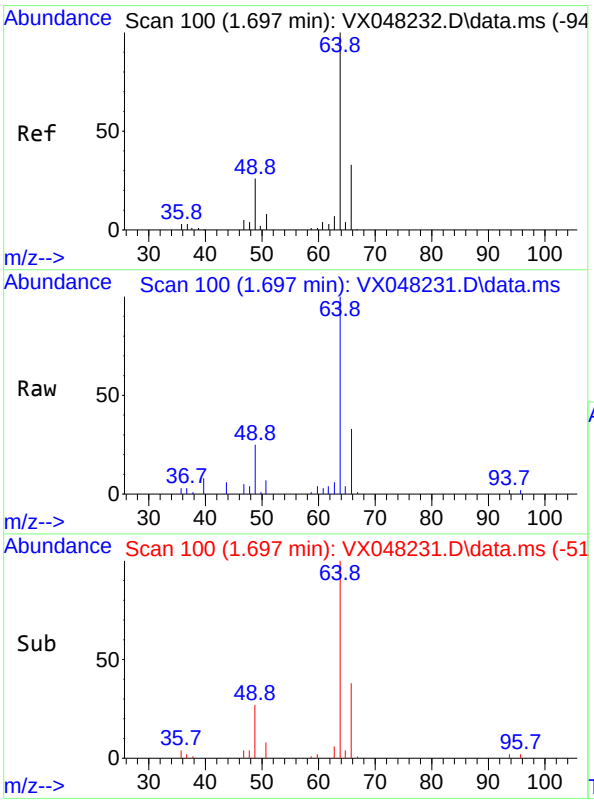
#5
Bromomethane
Concen: 21.449 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 15473

Ion	Ratio	Lower	Upper
94	100		
96	94.8	76.0	114.0

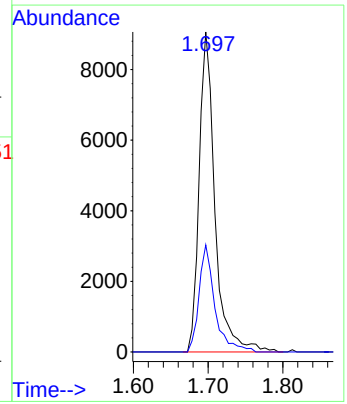


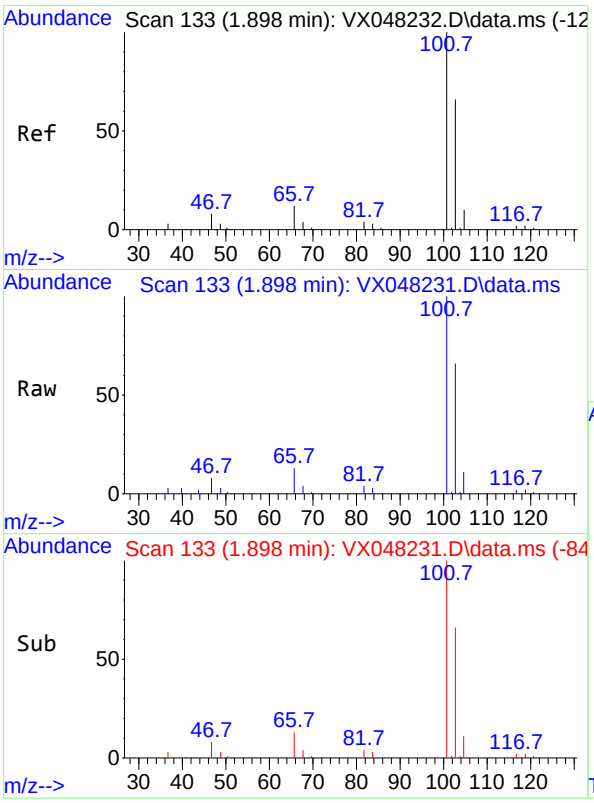


#6
Chloroethane
Concen: 21.212 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 64 Resp: 13249

Ion	Ratio	Lower	Upper
64	100		
66	33.4	23.9	35.9



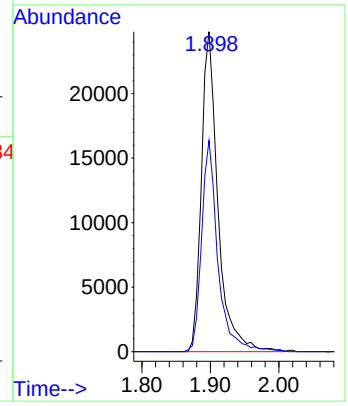


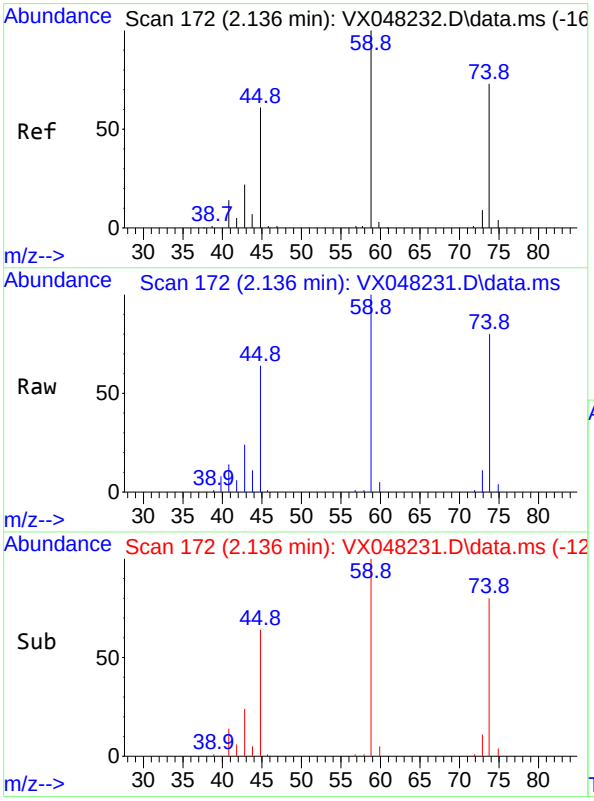
#7
Trichlorofluoromethane
Concen: 20.516 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 41824

Ion	Ratio	Lower	Upper
101	100		
103	66.0	51.6	77.4

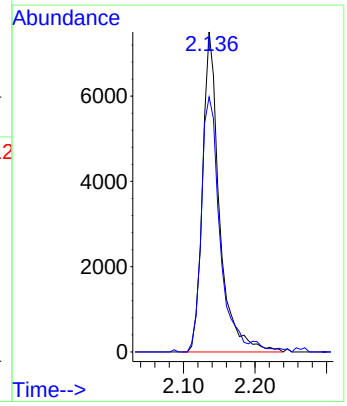


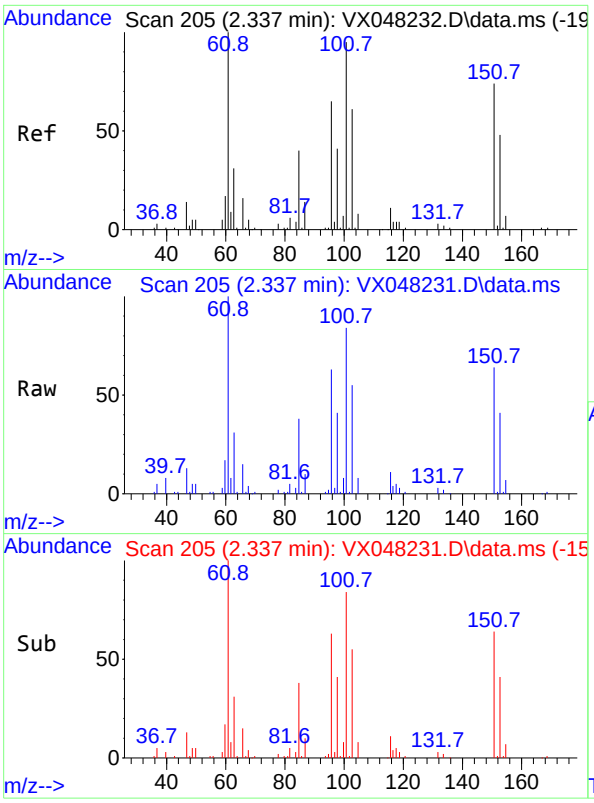


#8
Diethyl Ether
Concen: 21.431 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 74 Resp: 12293

Ion	Ratio	Lower	Upper
74	100		
45	86.6	50.0	149.8



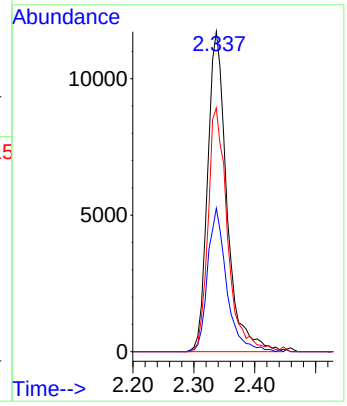


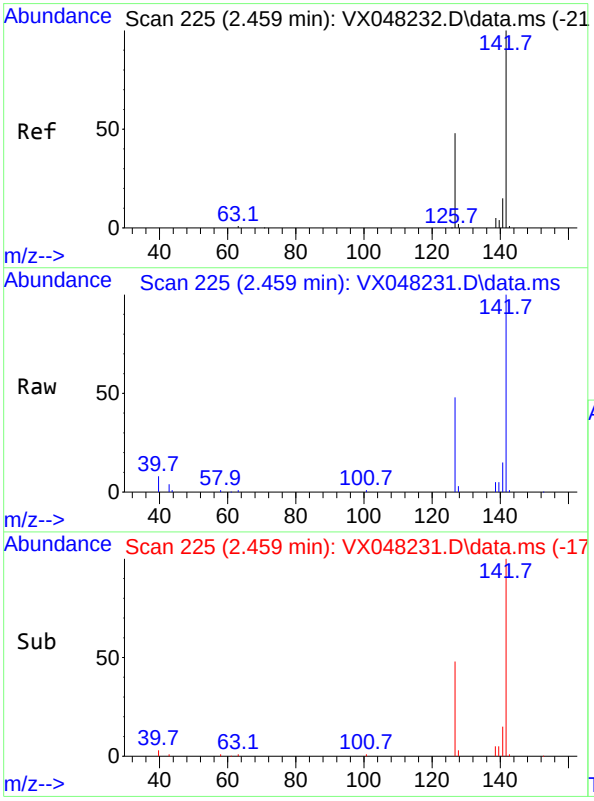
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.019 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 25843

Ion	Ratio	Lower	Upper
101	100		
85	44.1	35.6	53.4
151	76.9	58.0	87.0

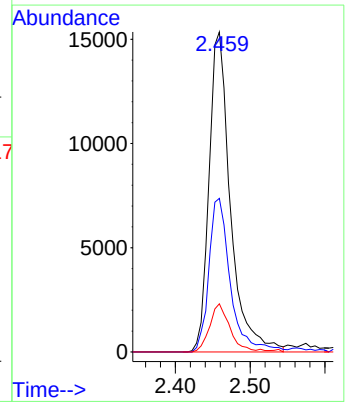


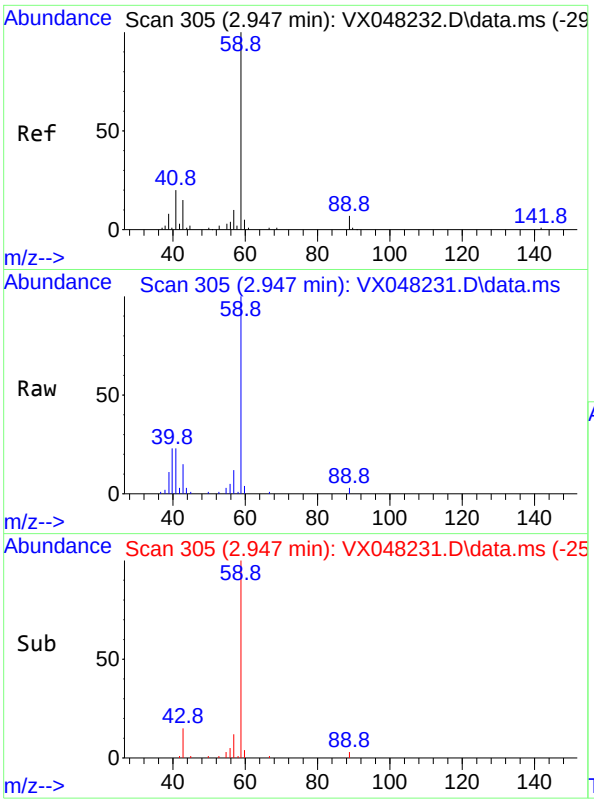


#10
Methyl Iodide
Concen: 18.764 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:142 Resp: 30452

Ion	Ratio	Lower	Upper
142	100		
127	48.4	38.5	57.7
141	14.2	11.6	17.4



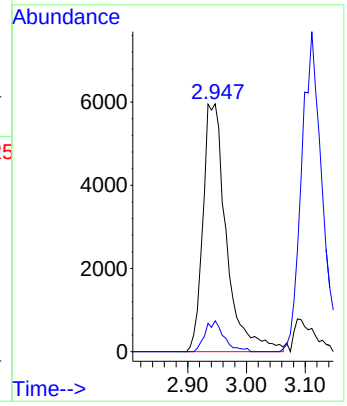


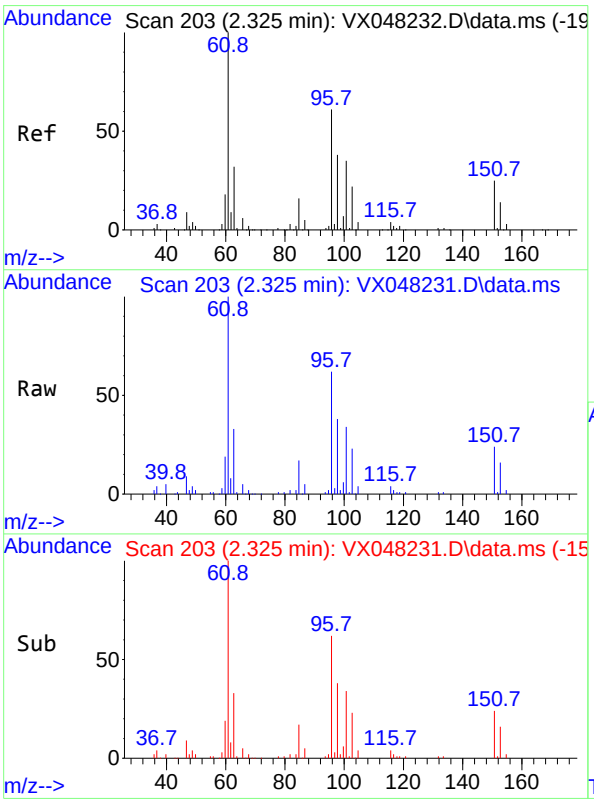
#11
Tert butyl alcohol
Concen: 99.208 ug/l
RT: 2.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 59 Resp: 16521

Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.2	12.4

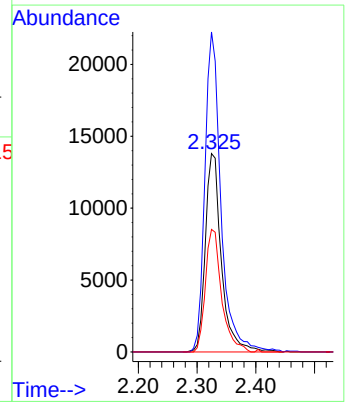


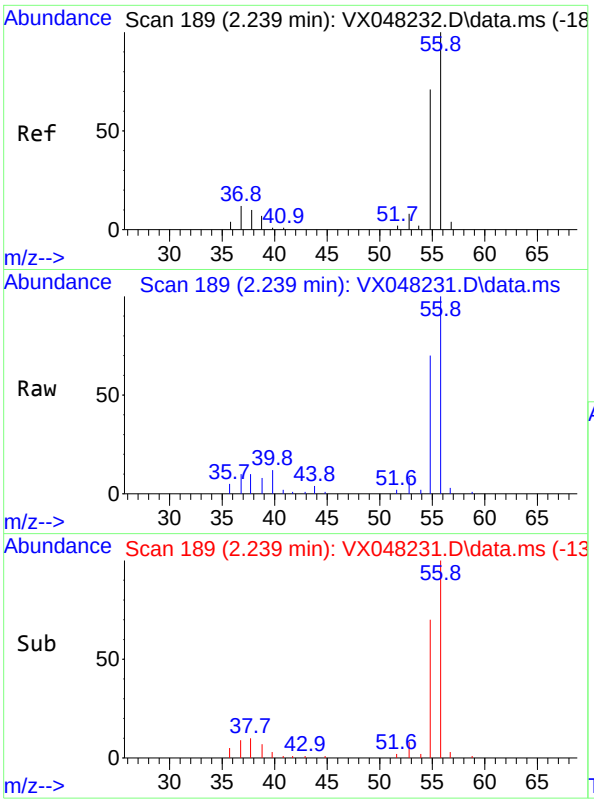


#12
1,1-Dichloroethene
Concen: 20.868 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 96 Resp: 26209

Ion	Ratio	Lower	Upper
96	100		
61	161.3	139.0	208.6
98	61.7	52.4	78.6



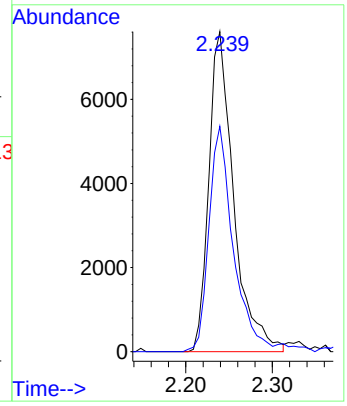


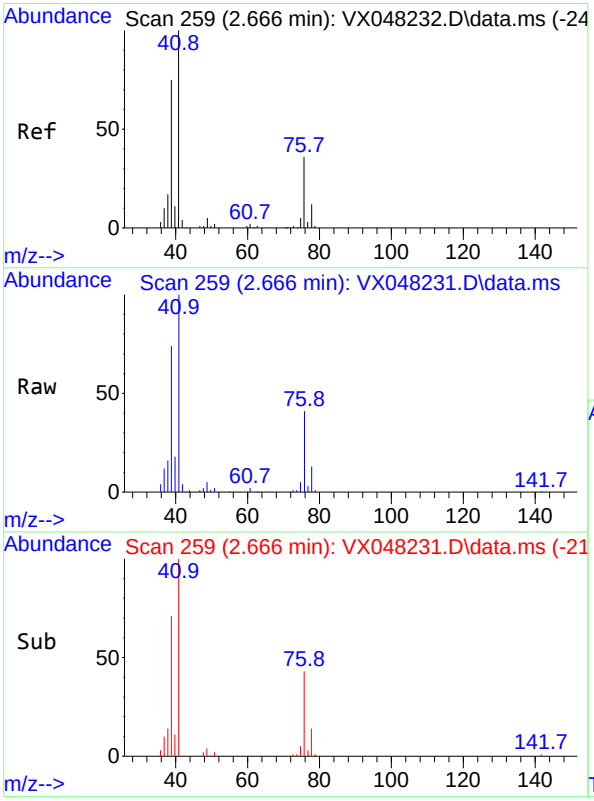
#13
Acrolein
Concen: 89.242 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 15157

Ion	Ratio	Lower	Upper
56	100		
55	70.8	56.1	84.1

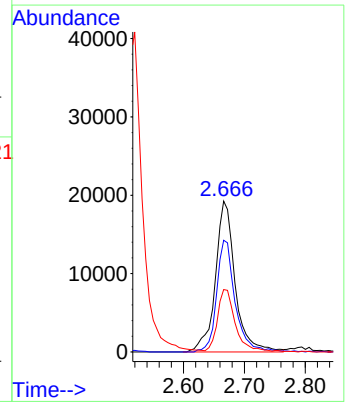


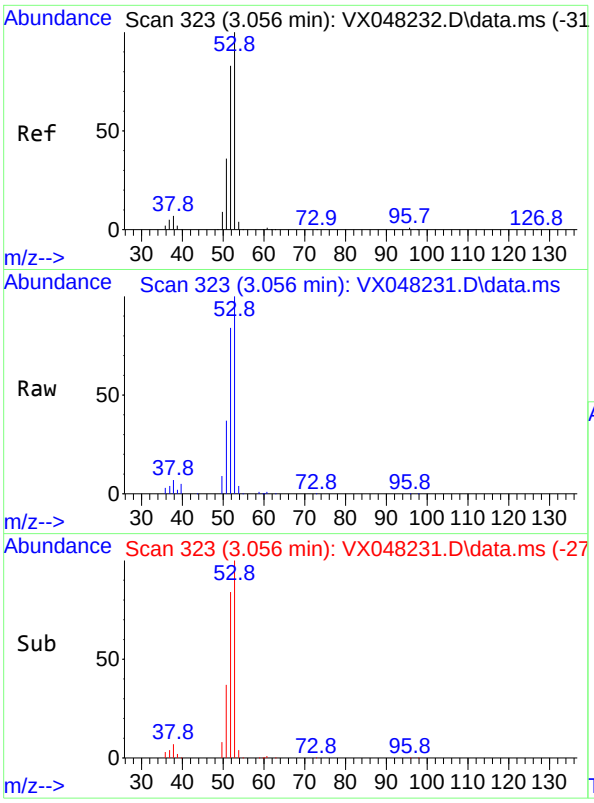


#14
Allyl chloride
Concen: 20.859 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 41 Resp: 43494

Ion	Ratio	Lower	Upper
41	100		
39	69.2	56.0	84.0
76	36.0	27.5	41.3



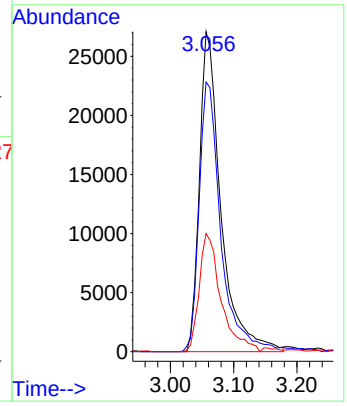


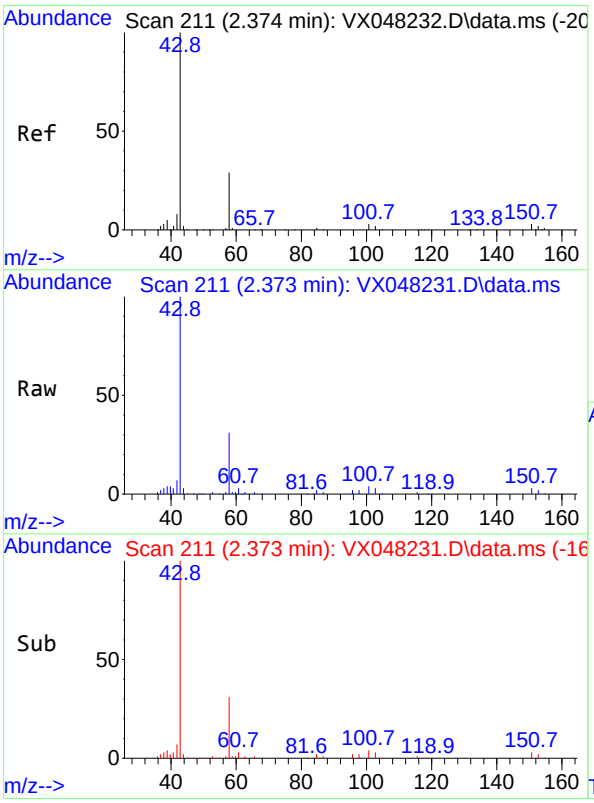
#15
Acrylonitrile
Concen: 106.465 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 53 Resp: 63931

Ion	Ratio	Lower	Upper
53	100		
52	86.2	66.1	99.1
51	37.4	29.0	43.4

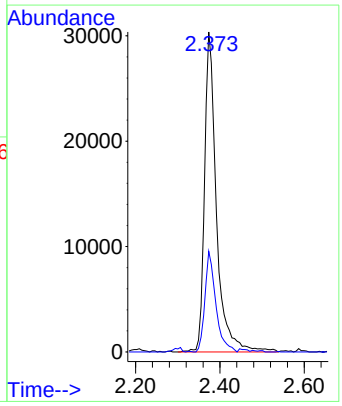


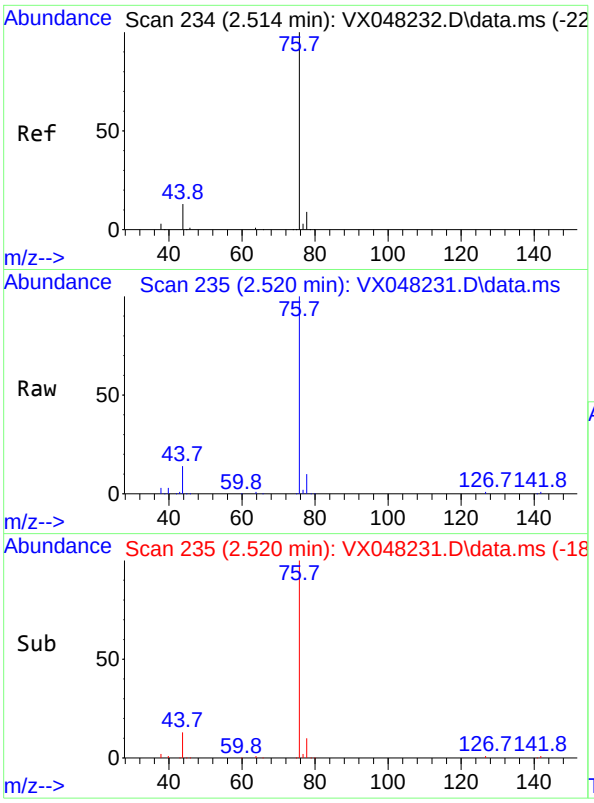


#16
Acetone
Concen: 104.075 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 43 Resp: 59884

Ion	Ratio	Lower	Upper
43	100		
58	31.3	23.4	35.2



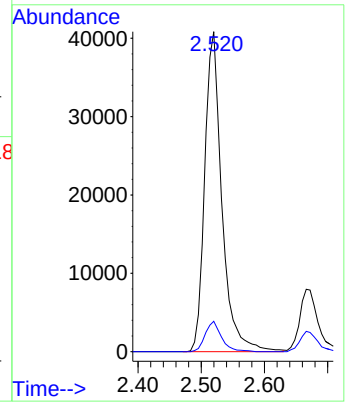


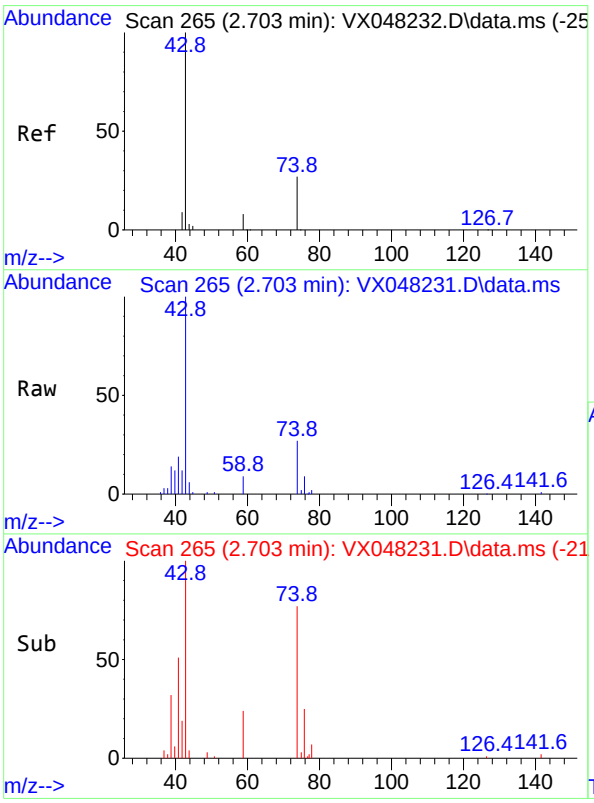
#17
Carbon Disulfide
Concen: 19.489 ug/l
RT: 2.520 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 77142

Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.1	10.7

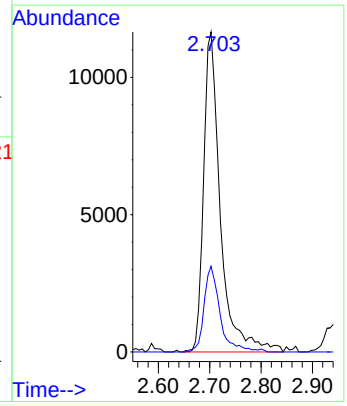


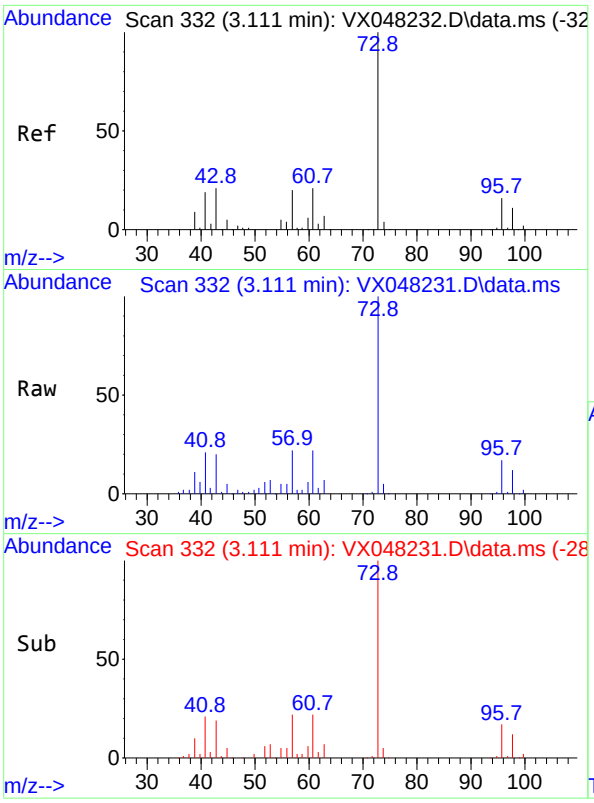


#18
Methyl Acetate
Concen: 21.948 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 43 Resp: 26374

Ion	Ratio	Lower	Upper
43	100		
74	25.7	17.5	26.3



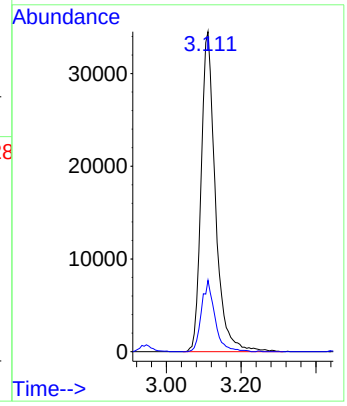


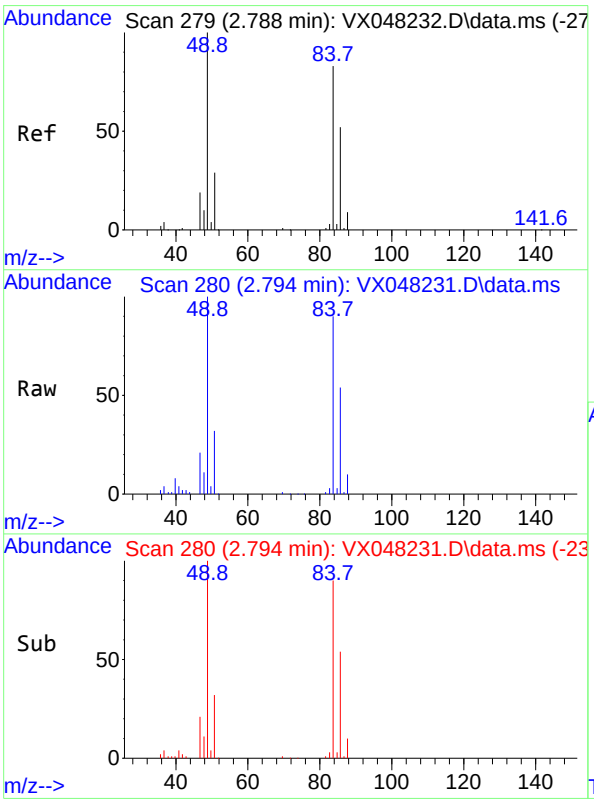
#19
Methyl tert-butyl Ether
Concen: 21.321 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 91349

Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.7	26.5

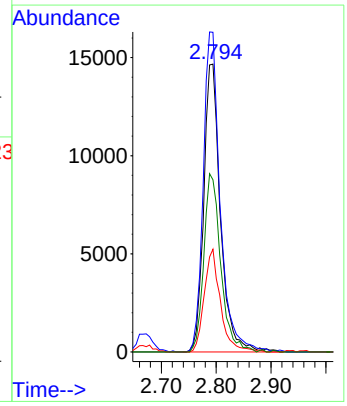


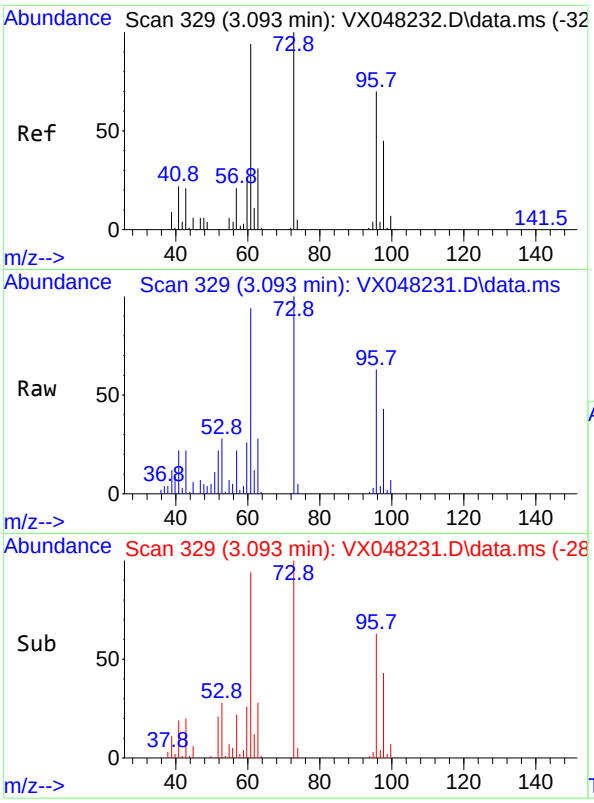


#20
Methylene Chloride
Concen: 22.223 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 84 Resp: 31157

Ion	Ratio	Lower	Upper
84	100		
49	111.1	104.1	156.1
51	35.7	31.3	46.9
86	59.8	51.3	76.9



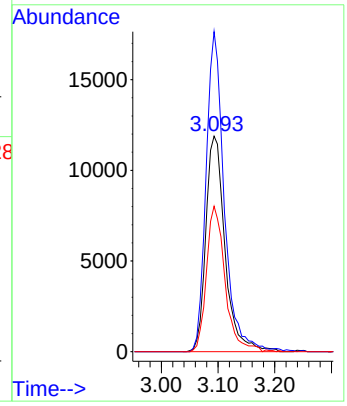


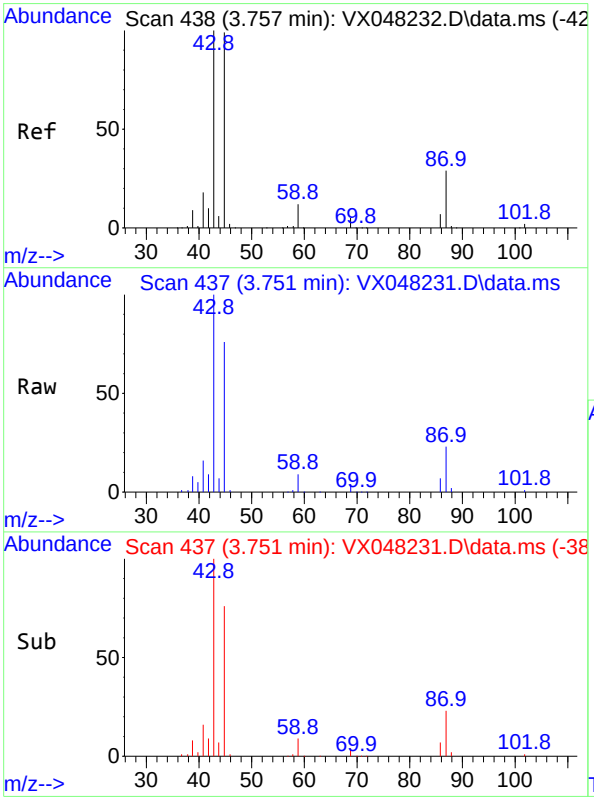
#21
trans-1,2-Dichloroethene
Concen: 20.297 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 28001

Ion	Ratio	Lower	Upper
96	100		
61	148.5	111.9	167.9
98	67.5	51.2	76.8

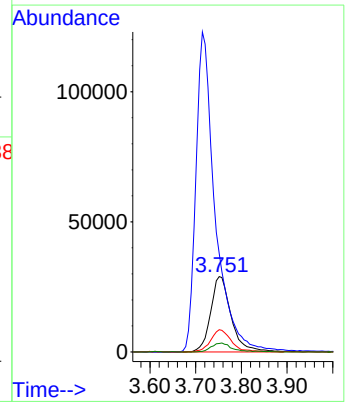


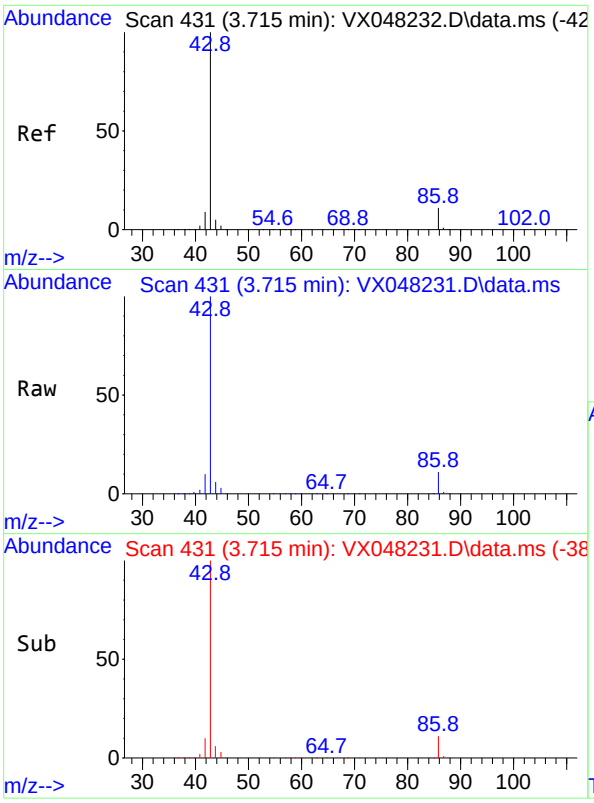


#22
Diisopropyl ether
Concen: 21.648 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 45 Resp: 90030

Ion	Ratio	Lower	Upper
45	100		
43	129.3	89.8	134.8
87	29.6	20.6	31.0
59	11.3	9.1	13.7



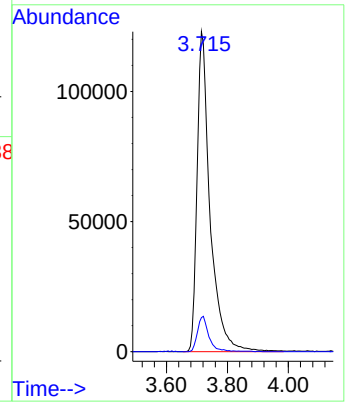


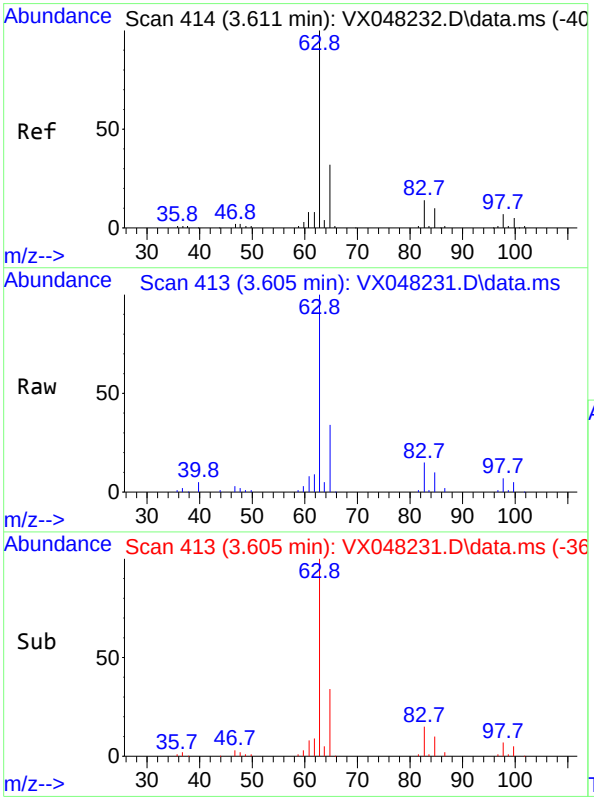
#23
Vinyl Acetate
Concen: 109.571 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 364009

Ion	Ratio	Lower	Upper
43	100		
86	10.6	7.9	11.9

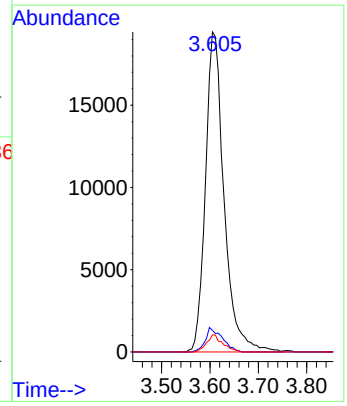


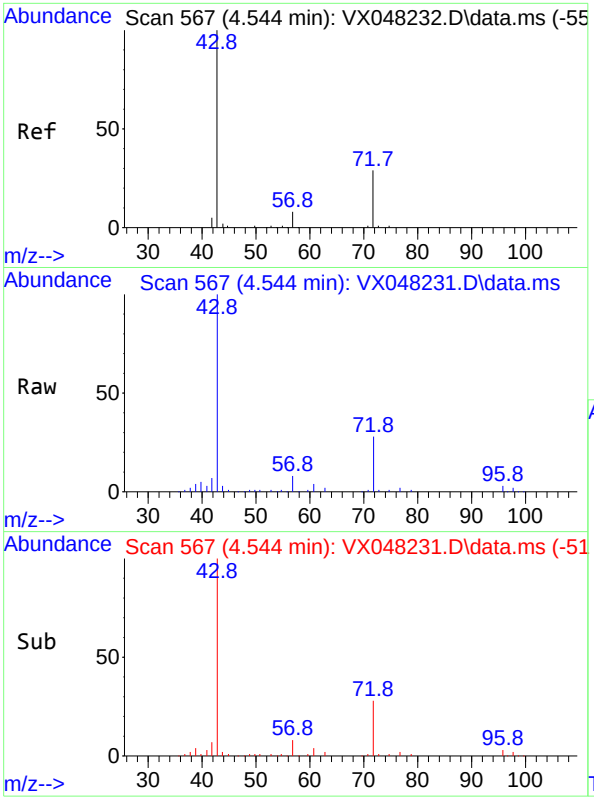


#24
1,1-Dichloroethane
Concen: 20.649 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 63 Resp: 51927

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.5	10.6
100	5.4	2.1	6.3



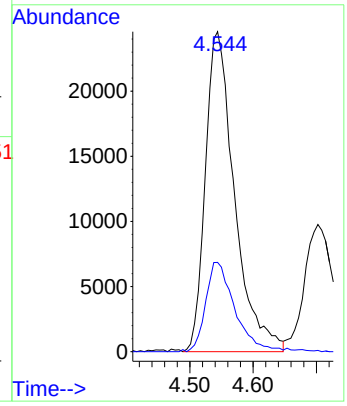


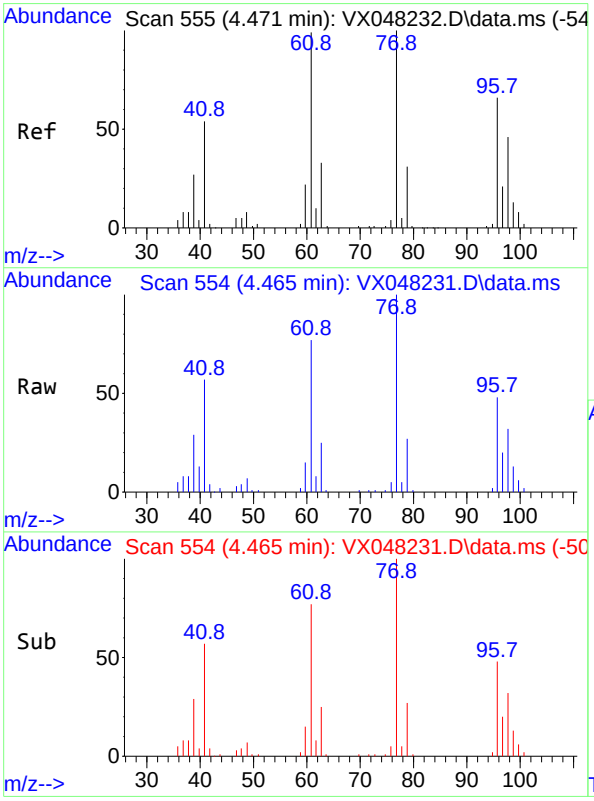
#25
2-Butanone
Concen: 107.982 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 78643

Ion	Ratio	Lower	Upper
43	100		
72	27.6	19.9	29.9

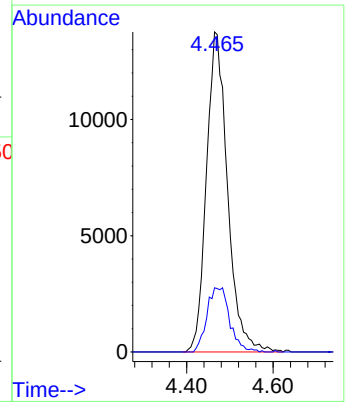


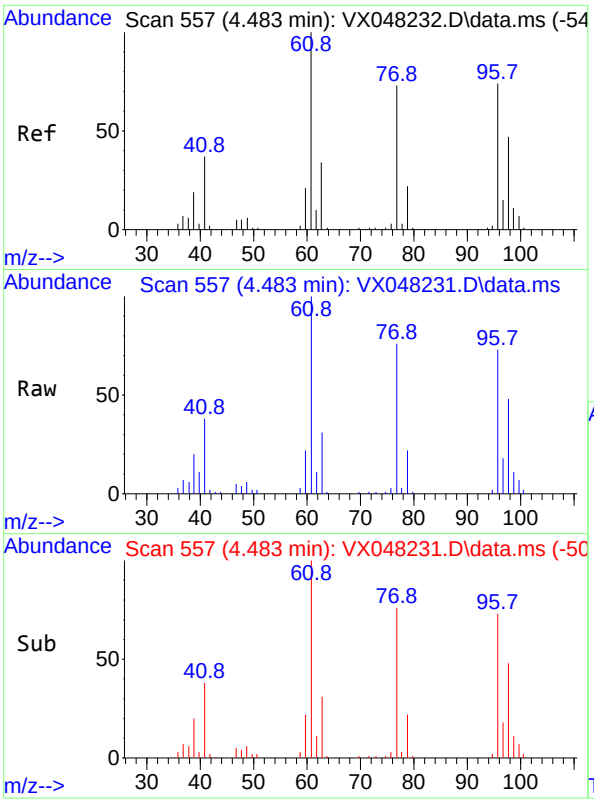


#26
2,2-Dichloropropane
Concen: 20.516 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 77 Resp: 46568

Ion	Ratio	Lower	Upper
77	100		
97	21.7	11.1	33.3



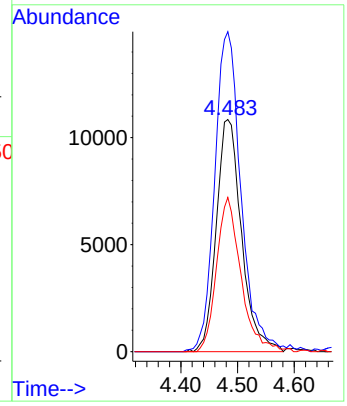


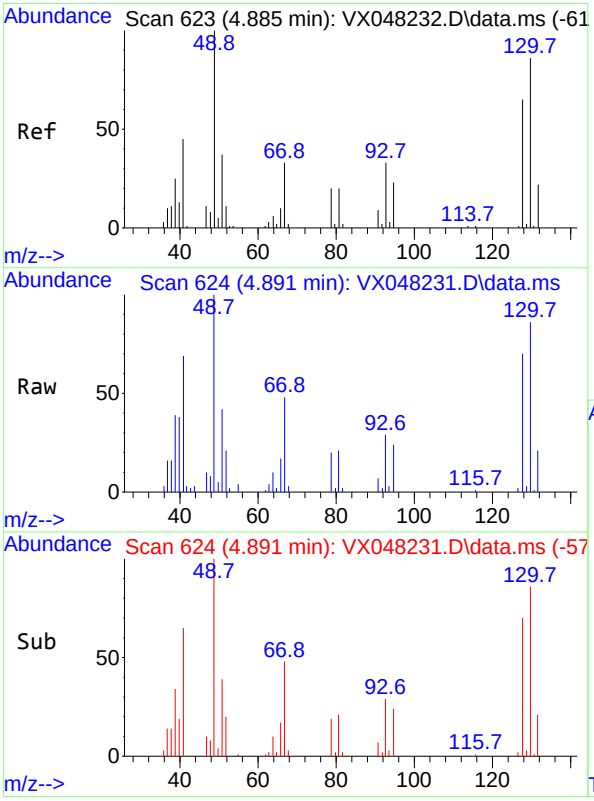
#27
cis-1,2-Dichloroethene
Concen: 20.812 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 33508

Ion	Ratio	Lower	Upper
96	100		
61	143.9	0.0	294.2
98	64.3	0.0	128.4

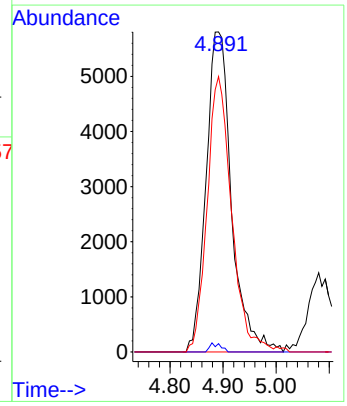


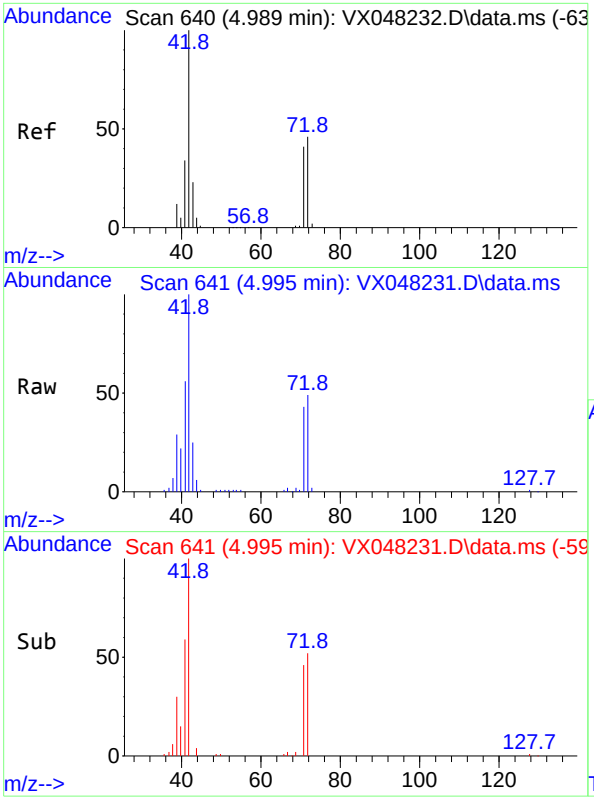


#28
Bromochloromethane
Concen: 18.547 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 49 Resp: 19339

Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	4.4
130	82.7	59.3	88.9



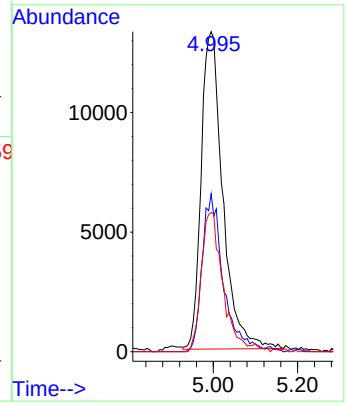


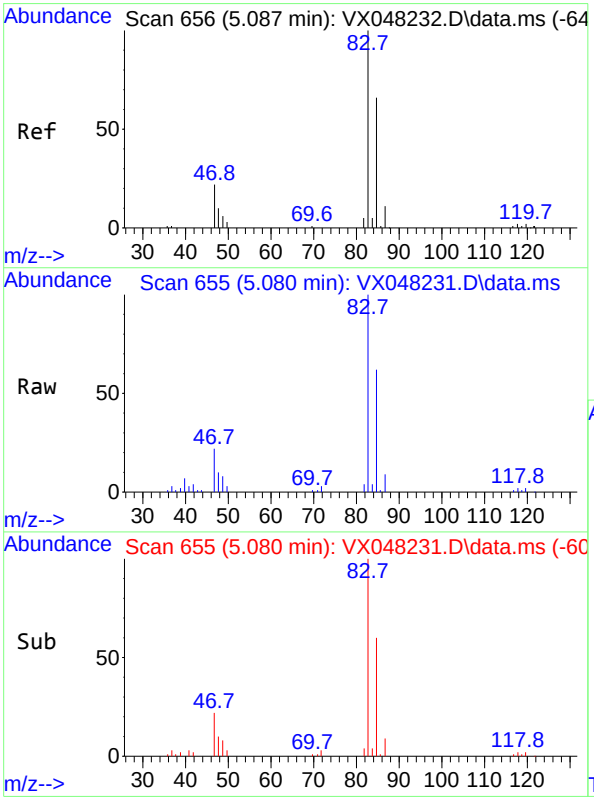
#29
Tetrahydrofuran
Concen: 108.802 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 42 Resp: 47457

Ion	Ratio	Lower	Upper
42	100		
72	48.5	35.3	52.9
71	43.2	32.2	48.4

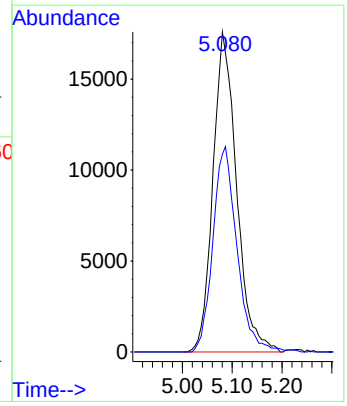


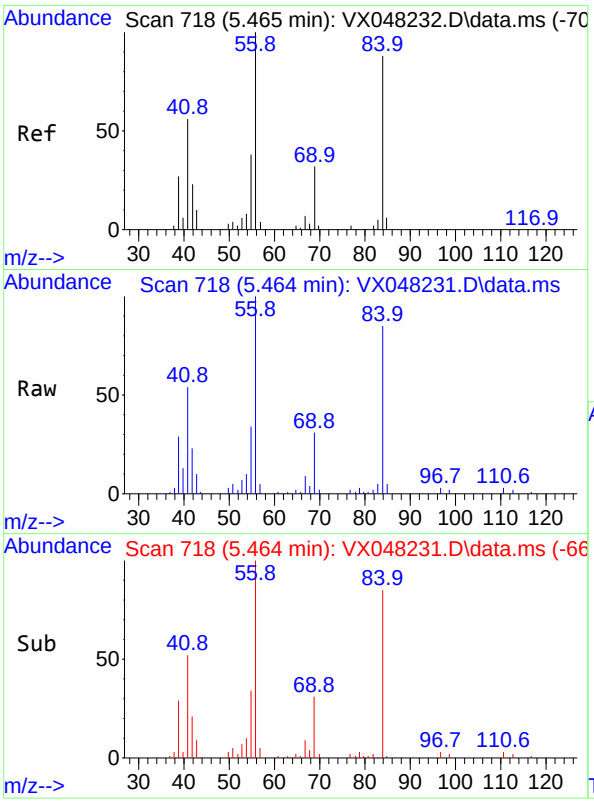


#30
Chloroform
Concen: 21.506 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 83 Resp: 57780

Ion	Ratio	Lower	Upper
83	100		
85	63.1	50.1	75.1



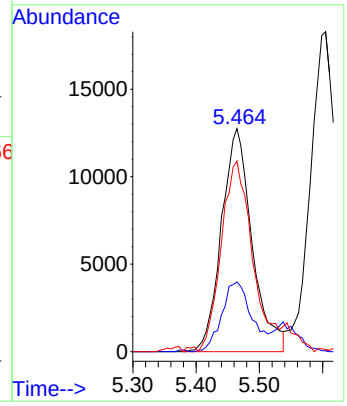


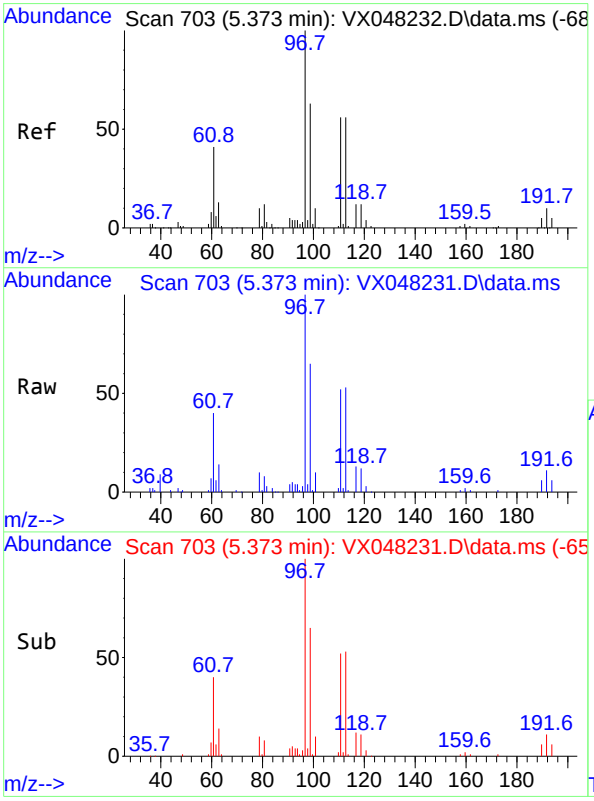
#31
Cyclohexane
Concen: 20.556 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 42796

Ion	Ratio	Lower	Upper
56	100		
69	30.6	23.0	34.6
84	85.5	64.6	97.0

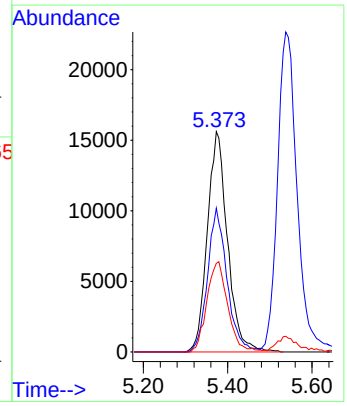


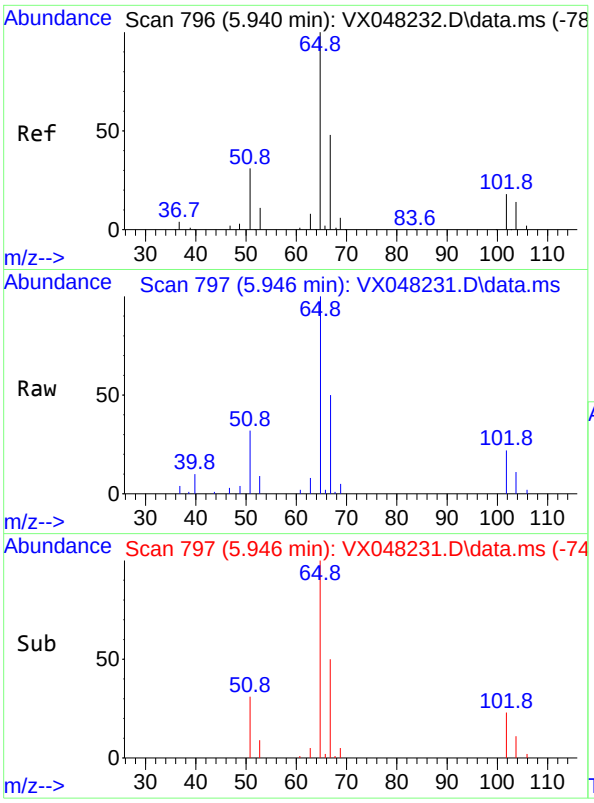


#32
1,1,1-Trichloroethane
Concen: 20.972 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 97 Resp: 51929

Ion	Ratio	Lower	Upper
97	100		
99	63.0	51.7	77.5
61	42.4	34.8	52.2



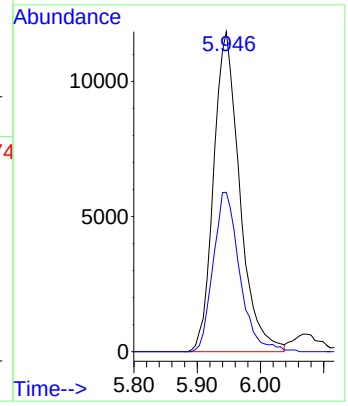


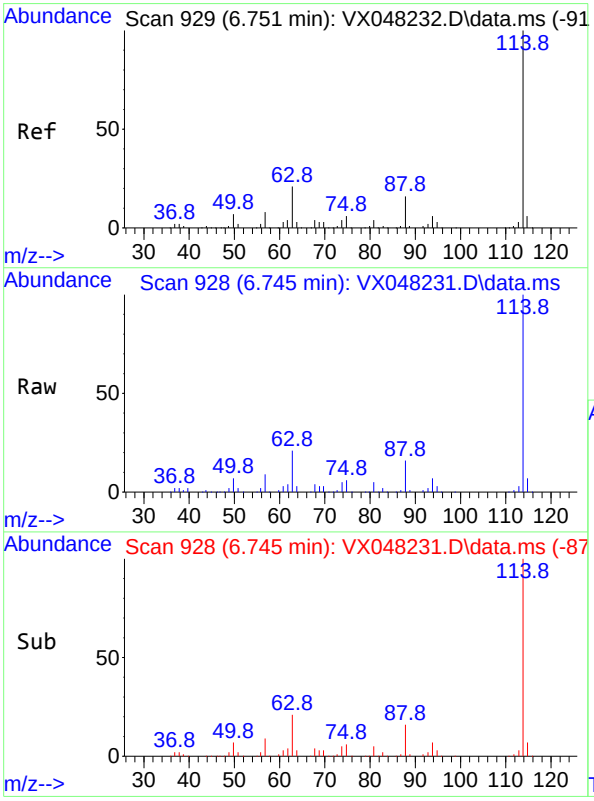
#33
1,2-Dichloroethane-d4
Concen: 20.233 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 65 Resp: 33936

Ion	Ratio	Lower	Upper
65	100		
67	50.6	0.0	105.0

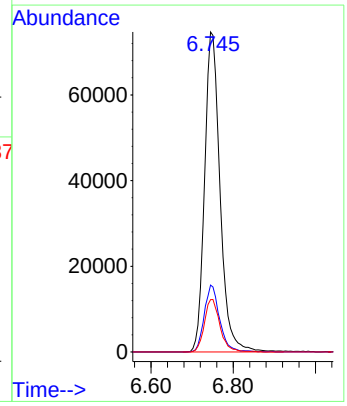


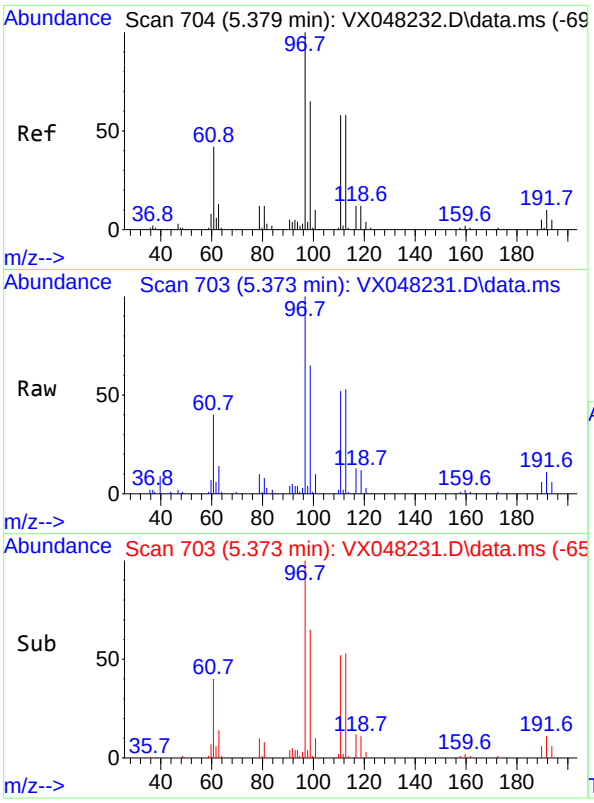


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:114 Resp: 195028

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	43.2
88	16.4	0.0	33.6



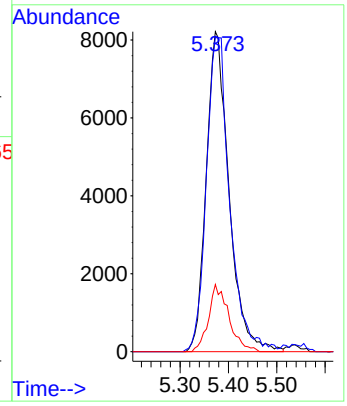


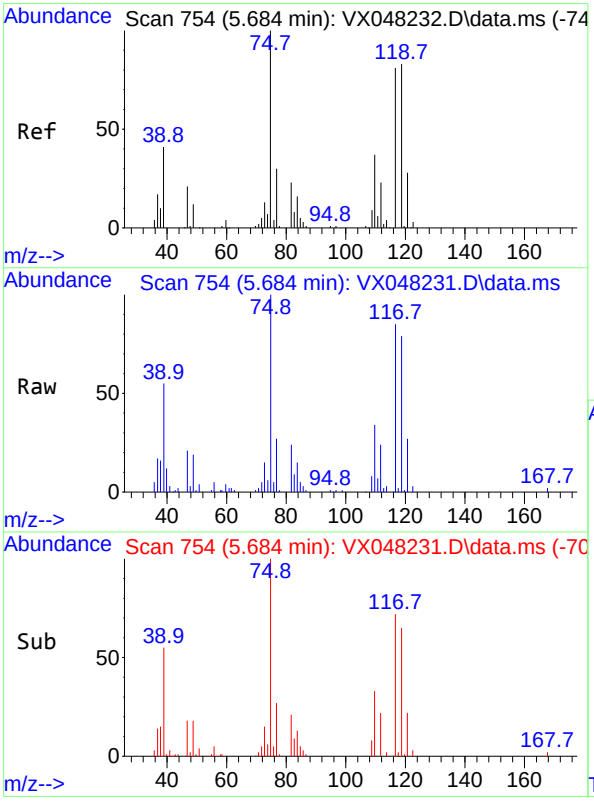
#35
Dibromofluoromethane
Concen: 20.201 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:113 Resp: 26897

Ion	Ratio	Lower	Upper
113	100		
111	100.7	82.2	123.4
192	18.8	15.1	22.7

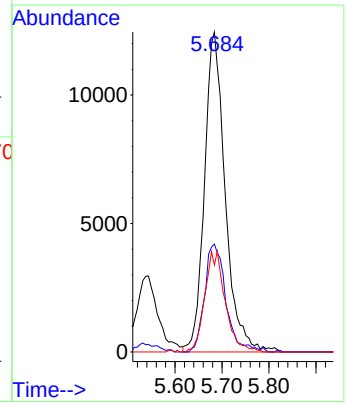


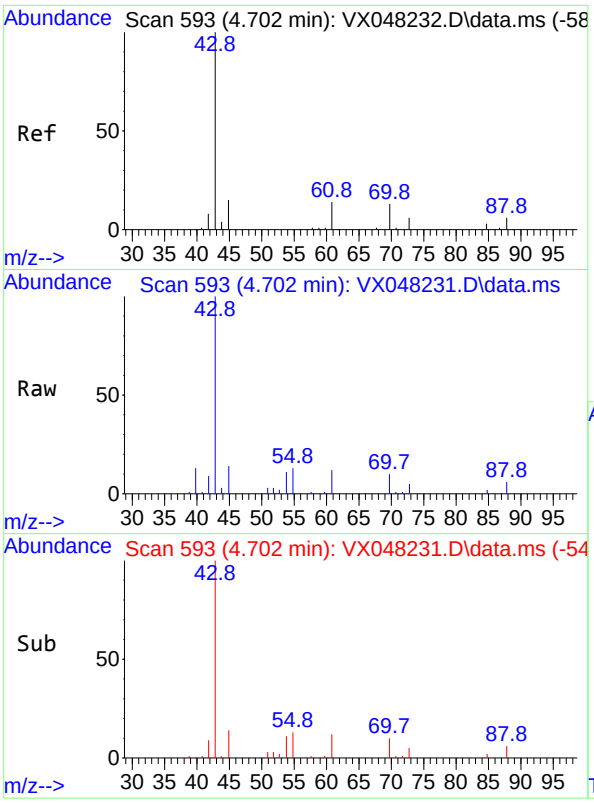


#36
1,1-Dichloropropene
Concen: 20.223 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 75 Resp: 38270

Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.7	53.1
77	31.1	24.3	36.5



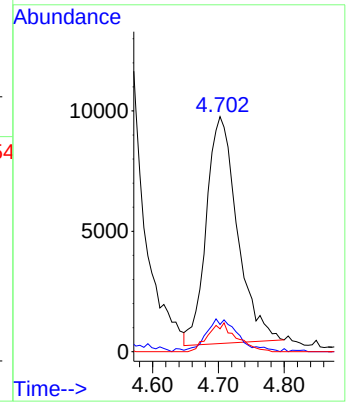


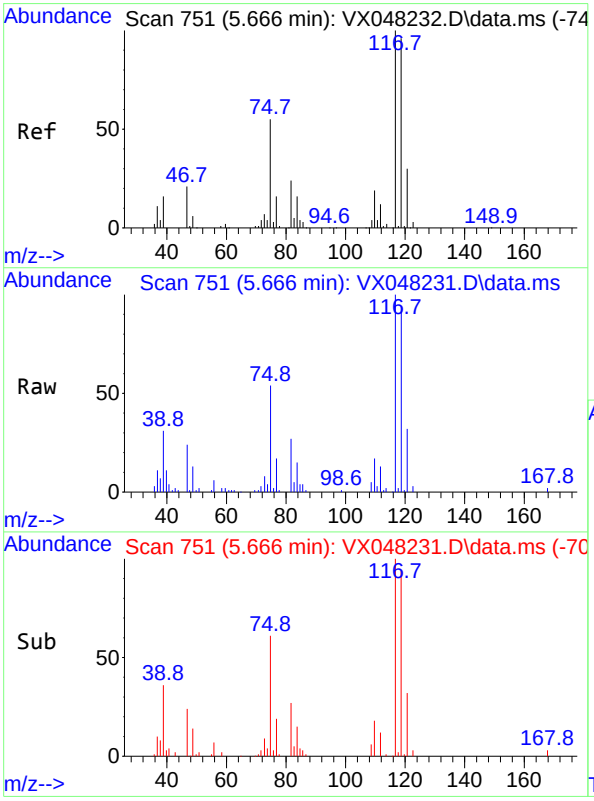
#37
Ethyl Acetate
Concen: 19.702 ug/l
RT: 4.702 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 30904

Ion	Ratio	Lower	Upper
43	100		
61	14.8	10.6	15.8
70	11.7	7.8	11.6#

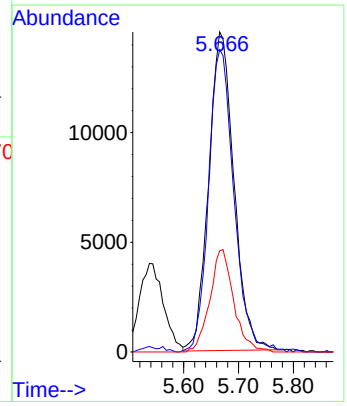


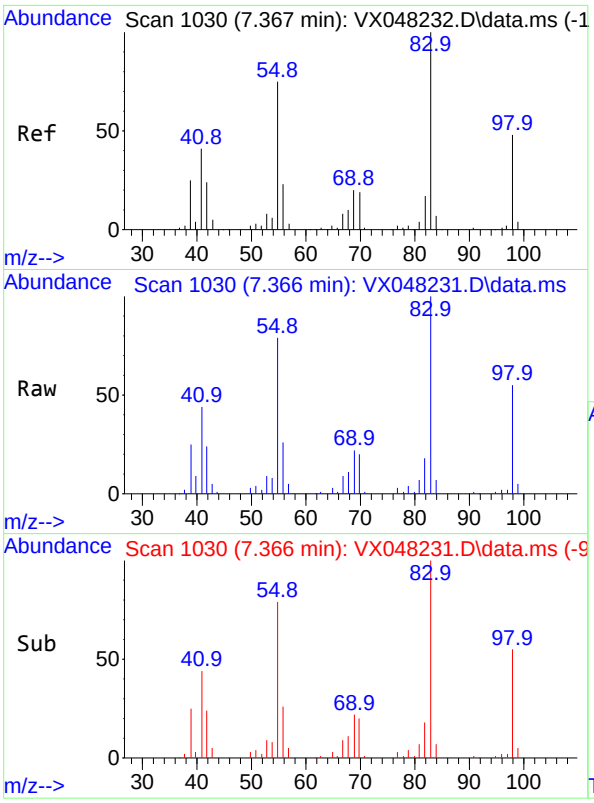


#38
Carbon Tetrachloride
Concen: 19.841 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:117 Resp: 46323

Ion	Ratio	Lower	Upper
117	100		
119	94.7	77.2	115.8
121	31.8	24.8	37.2



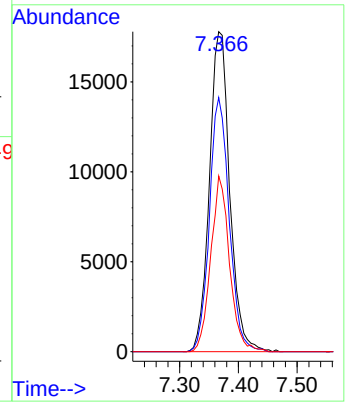


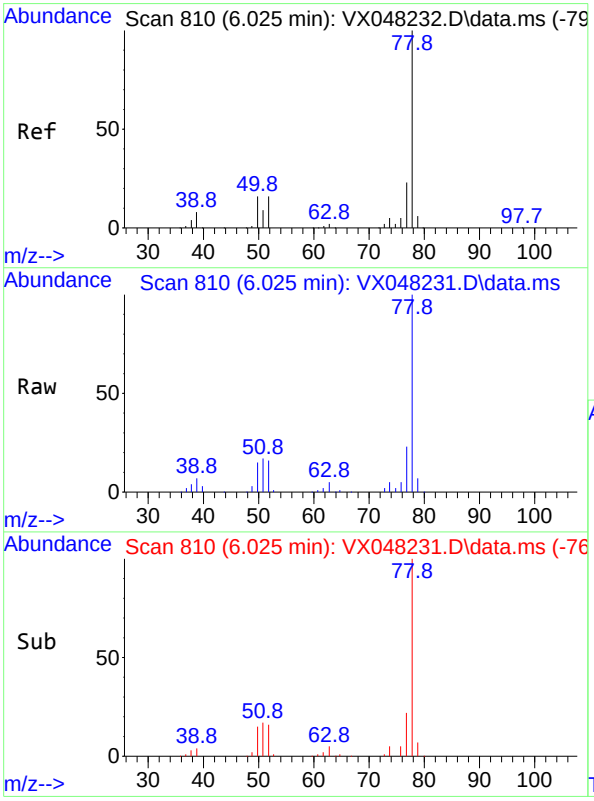
#39
Methylcyclohexane
Concen: 19.140 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 42776

Ion	Ratio	Lower	Upper
83	100		
55	79.4	66.2	99.2
98	54.9	38.9	58.3

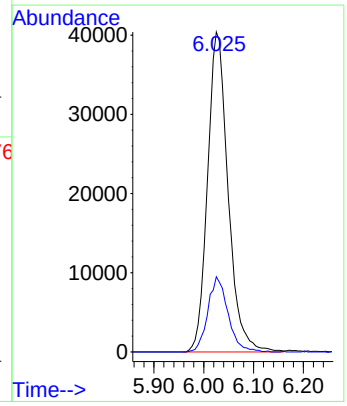


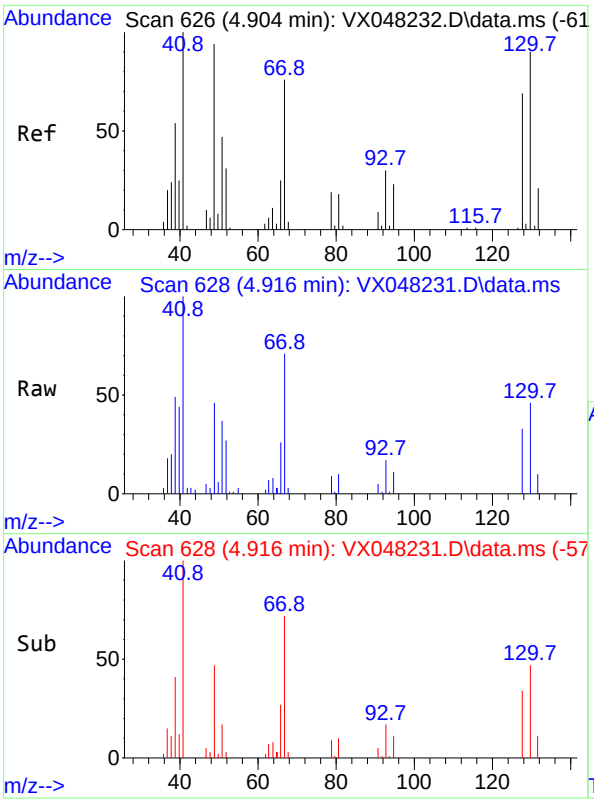


#40
Benzene
Concen: 21.020 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 78 Resp: 115488

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.3	28.9



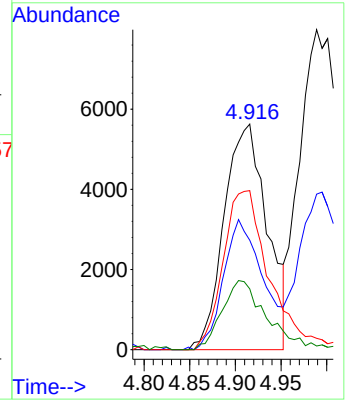


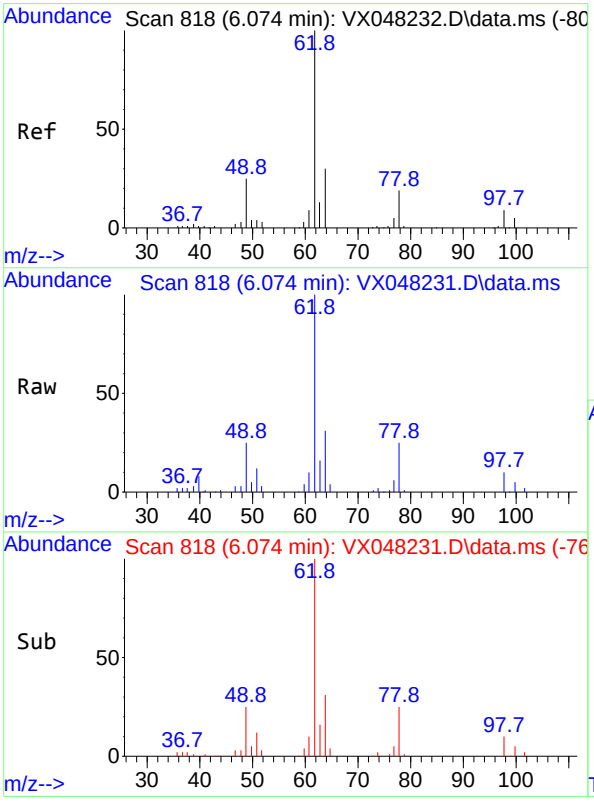
#41
Methacrylonitrile
Concen: 22.411 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.012 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 41 Resp: 18461

Ion	Ratio	Lower	Upper
41	100		
39	53.4	44.0	66.0
67	76.9	58.7	88.1
52	32.3	25.9	38.9

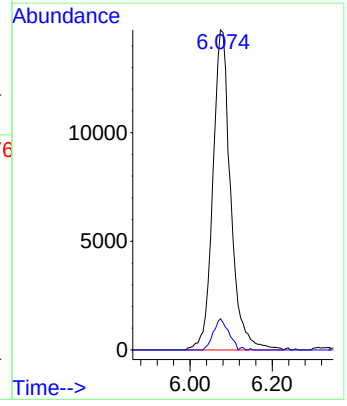


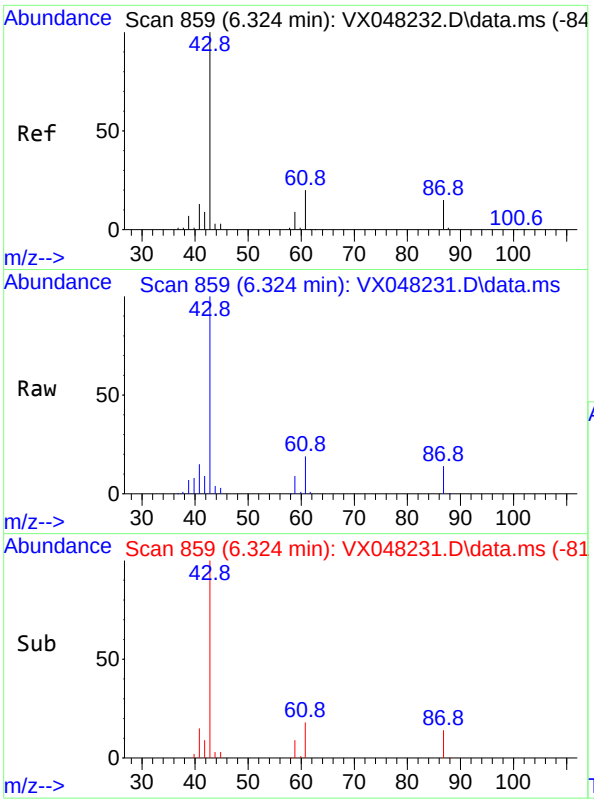


#42
1,2-Dichloroethane
Concen: 21.789 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 62 Resp: 44176

Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	17.2



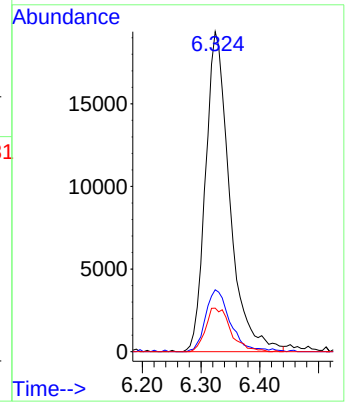


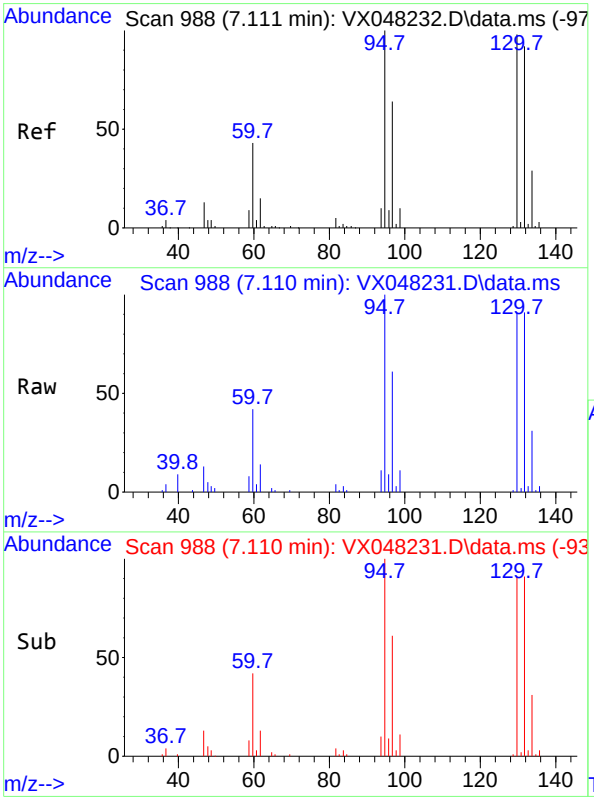
#43
Isopropyl Acetate
Concen: 21.469 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 55317

Ion	Ratio	Lower	Upper
43	100		
61	19.9	14.9	22.3
87	14.1	9.4	14.2

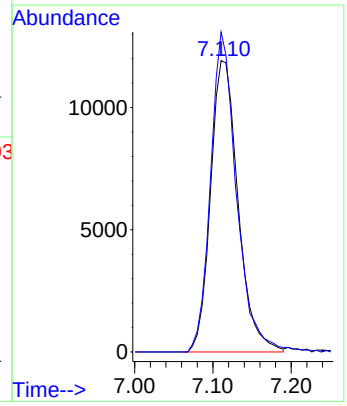


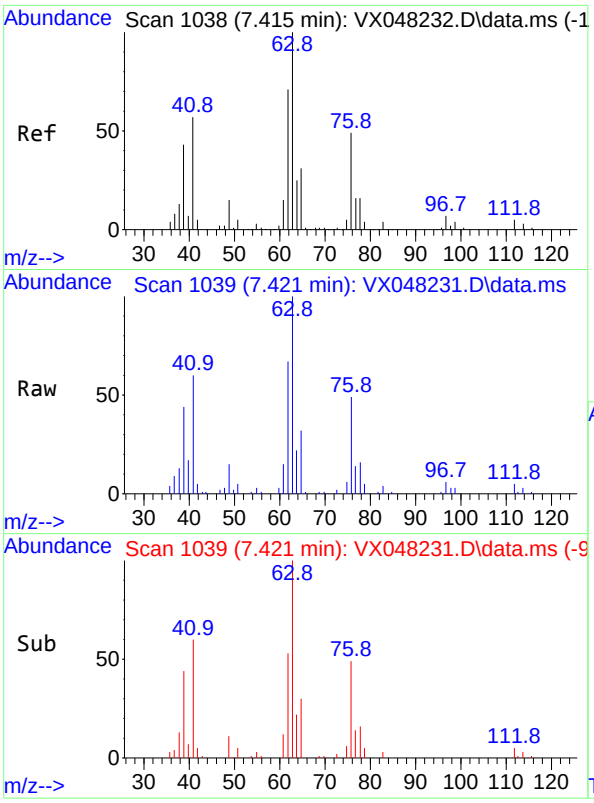


#44
Trichloroethene
Concen: 20.064 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:130 Resp: 29108

Ion	Ratio	Lower	Upper
130	100		
95	109.8	0.0	200.6



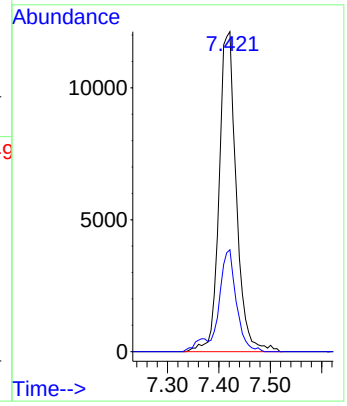


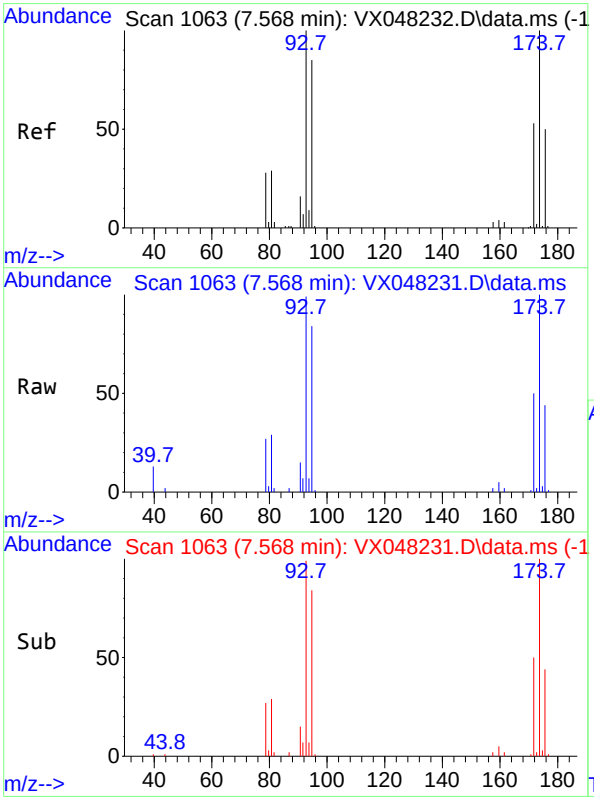
#45
1,2-Dichloropropane
Concen: 21.620 ug/l
RT: 7.421 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 63 Resp: 28242

Ion	Ratio	Lower	Upper
63	100		
65	31.8	24.1	36.1

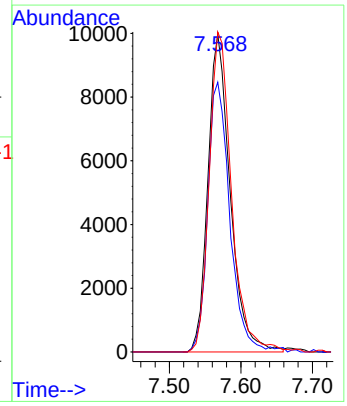


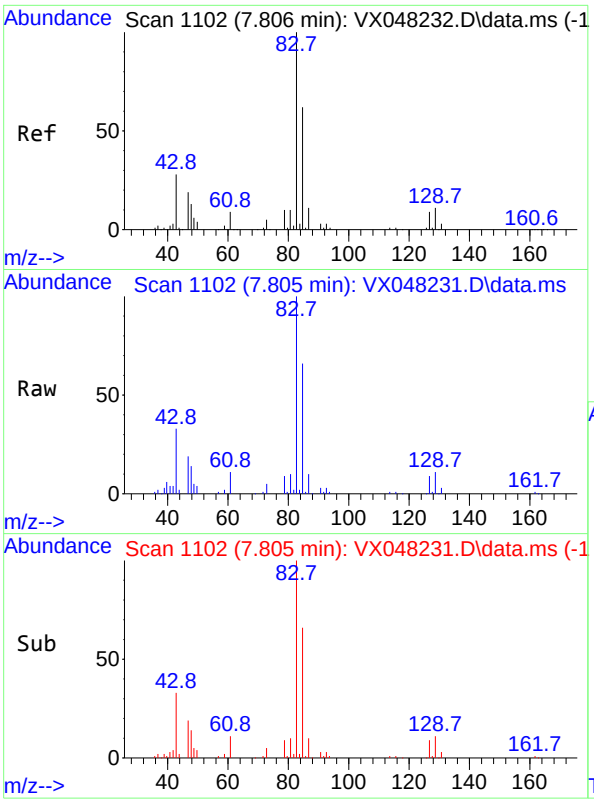


#46
Dibromomethane
Concen: 21.229 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 93 Resp: 21605

Ion	Ratio	Lower	Upper
93	100		
95	84.4	65.9	98.9
174	101.4	71.7	107.5



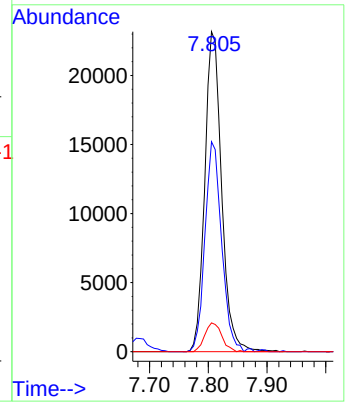


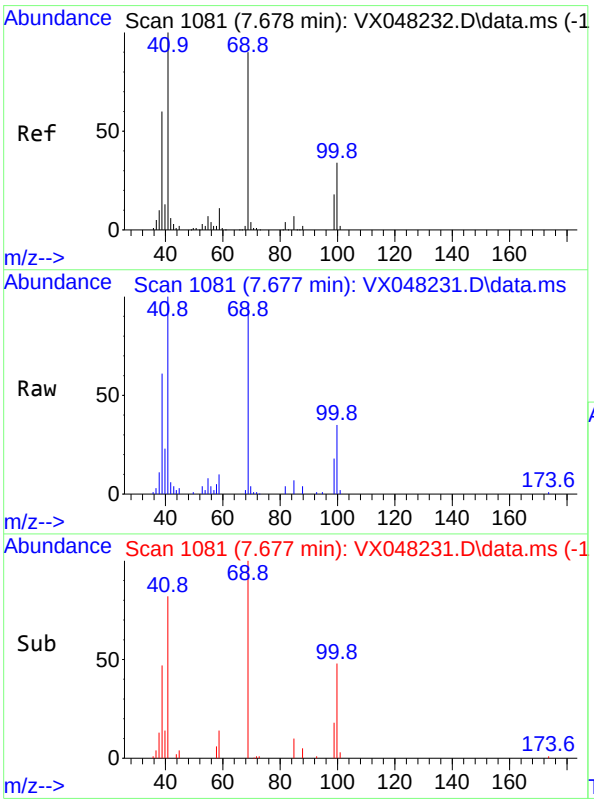
#47
Bromodichloromethane
Concen: 21.034 ug/l
RT: 7.805 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 46221

Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.2	78.4
127	9.0	7.3	10.9

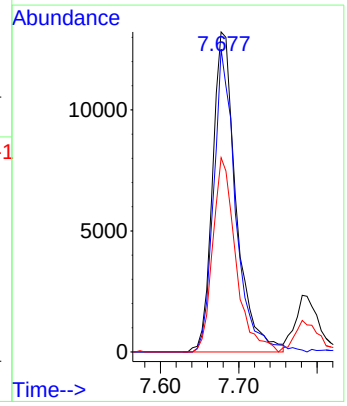


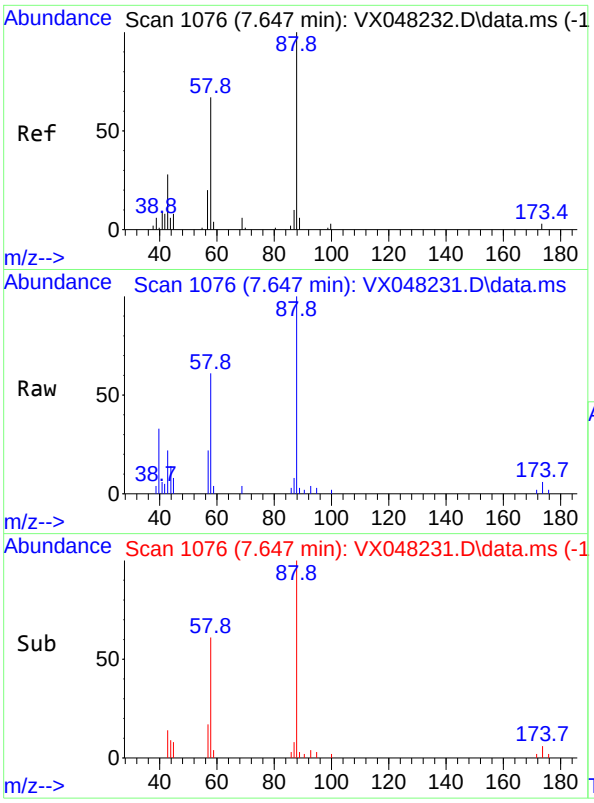


#48
Methyl methacrylate
Concen: 21.344 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 41 Resp: 27751

Ion	Ratio	Lower	Upper
41	100		
69	88.6	63.4	95.0
39	58.7	47.1	70.7



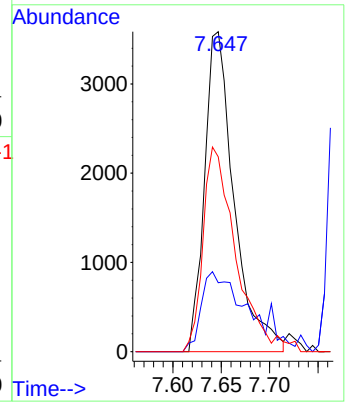


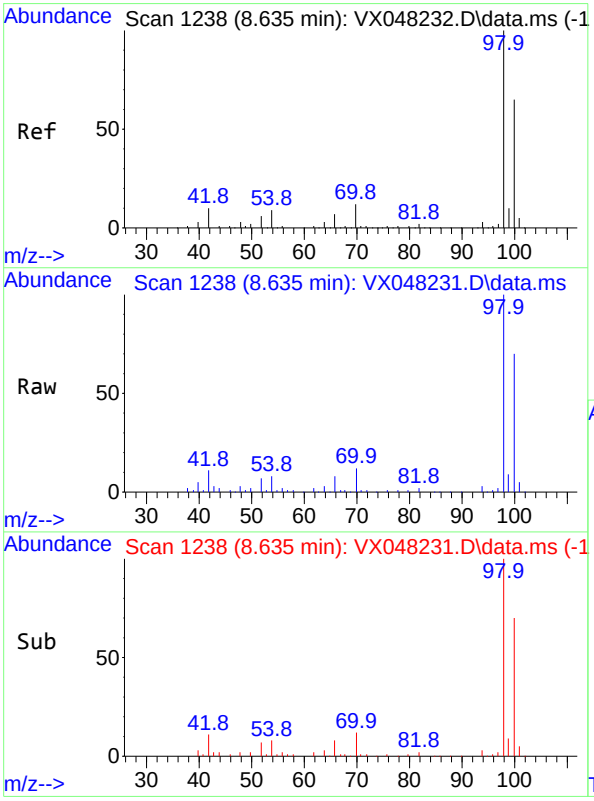
#49
1,4-Dioxane
Concen: 443.623 ug/l
RT: 7.647 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 88 Resp: 7620

Ion	Ratio	Lower	Upper
88	100		
43	35.0	35.0	52.4
58	71.5	61.9	92.9

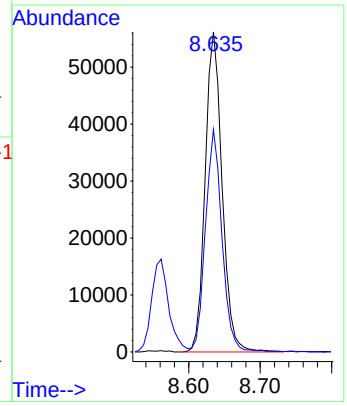


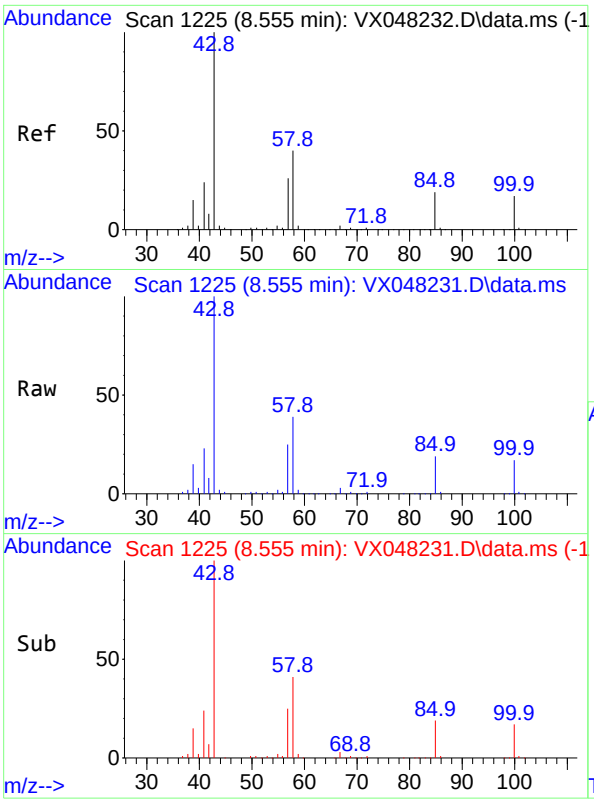


#50
Toluene-d8
Concen: 19.815 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 98 Resp: 92476

Ion	Ratio	Lower	Upper
98	100		
100	67.8	53.0	79.4



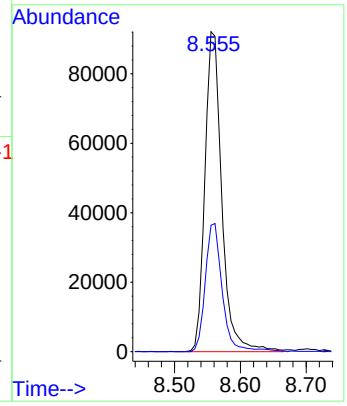


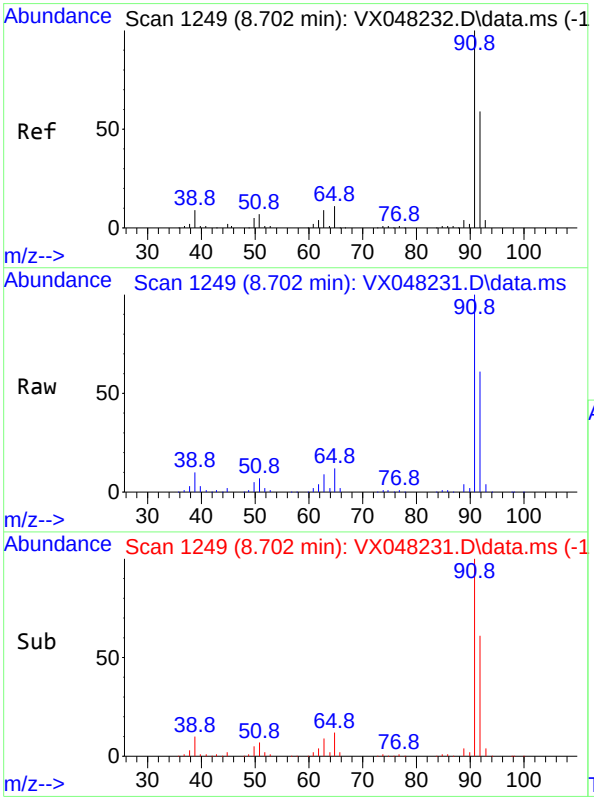
#51
4-Methyl-2-Pentanone
Concen: 110.873 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 164708

Ion	Ratio	Lower	Upper
43	100		
58	40.3	29.5	44.3

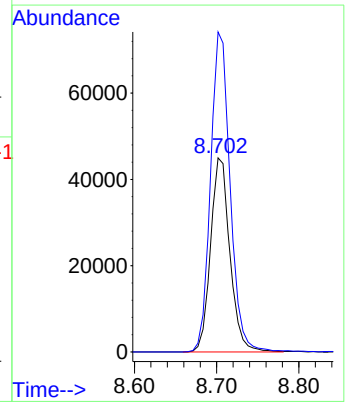


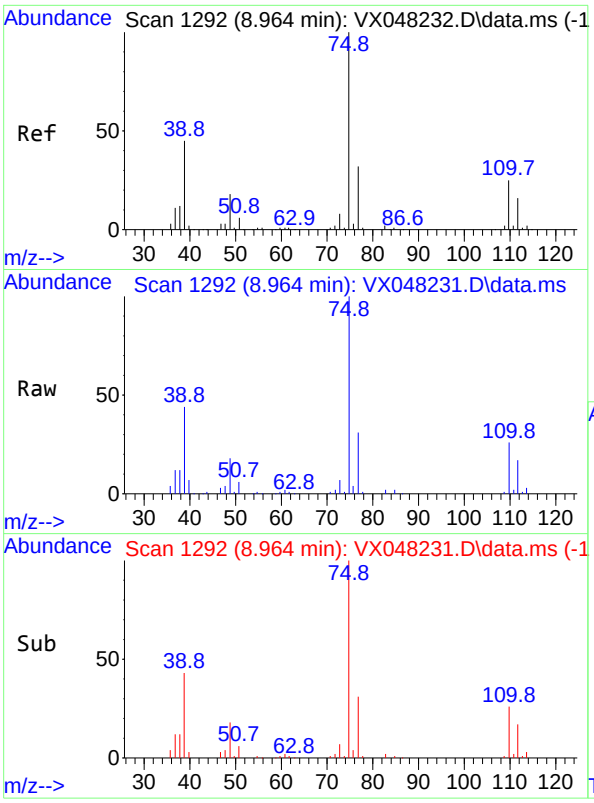


#52
Toluene
Concen: 21.093 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 92 Resp: 73623

Ion	Ratio	Lower	Upper
92	100		
91	167.2	136.1	204.1



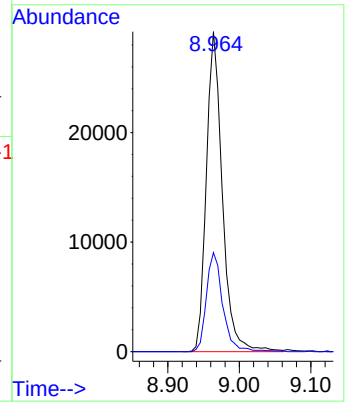


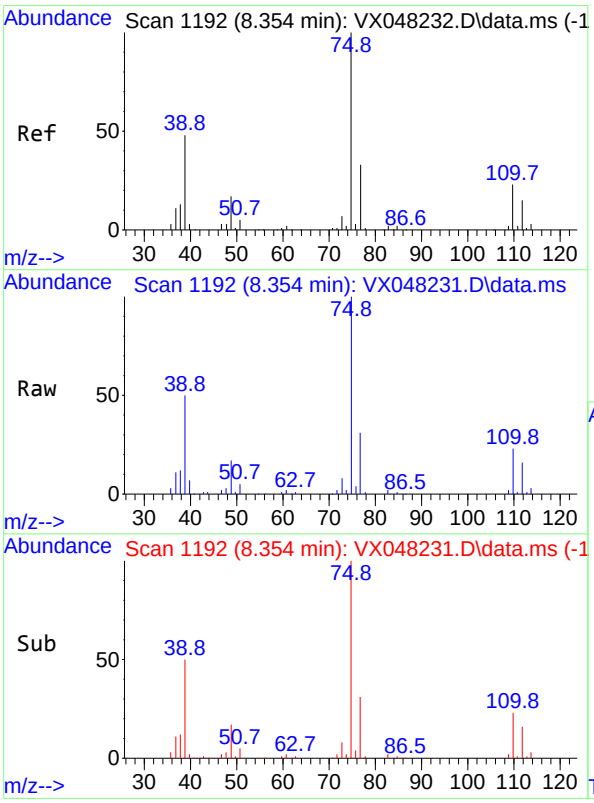
#53
t-1,3-Dichloropropene
Concen: 21.447 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 45416

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.0	37.6

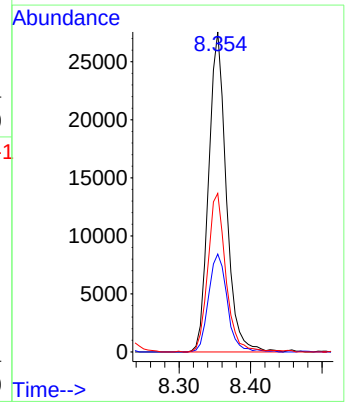


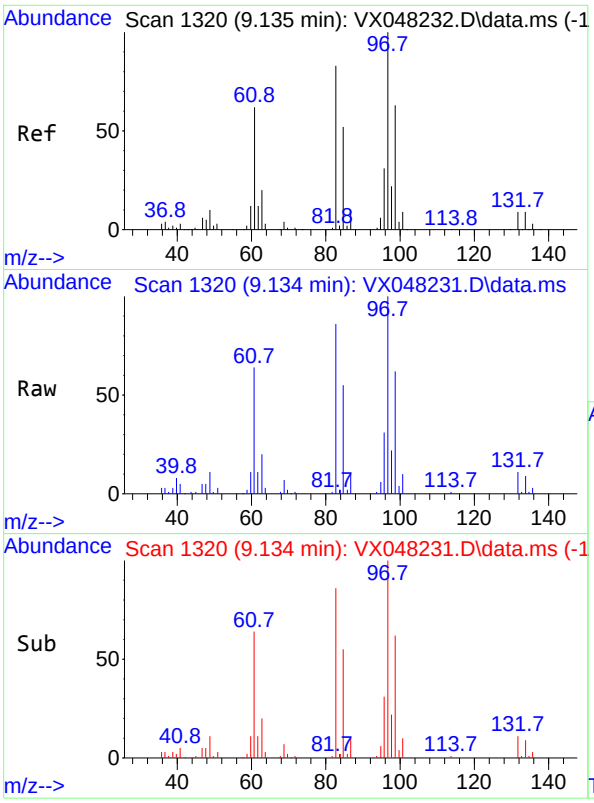


#54
cis-1,3-Dichloropropene
Concen: 20.629 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 75 Resp: 47130

Ion	Ratio	Lower	Upper
75	100		
77	30.6	24.9	37.3
39	49.5	42.6	64.0



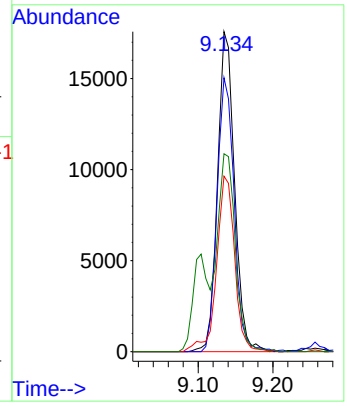


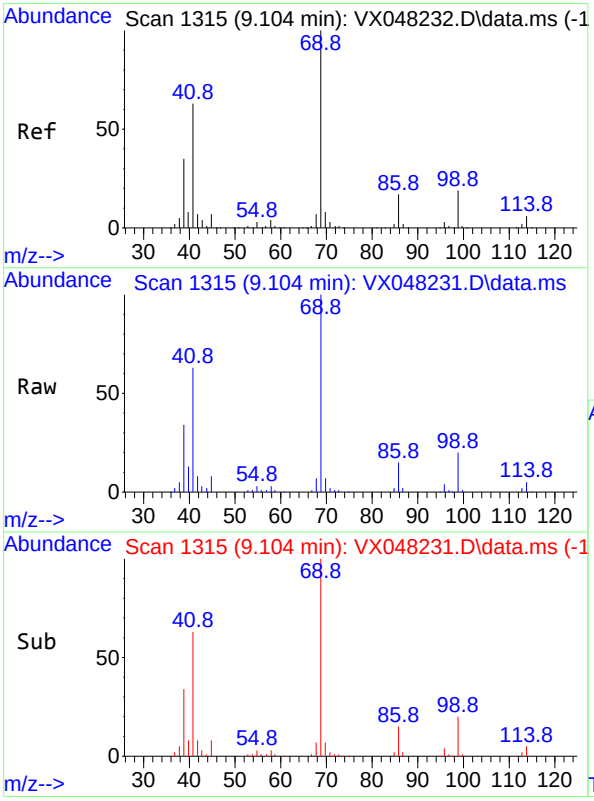
#55
1,1,2-Trichloroethane
Concen: 21.482 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 97 Resp: 27884

Ion	Ratio	Lower	Upper
97	100		
83	85.6	70.6	105.8
85	54.9	45.0	67.6
99	61.8	50.9	76.3

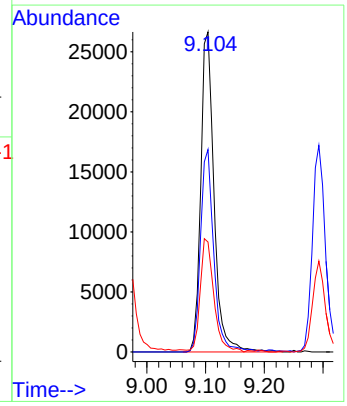


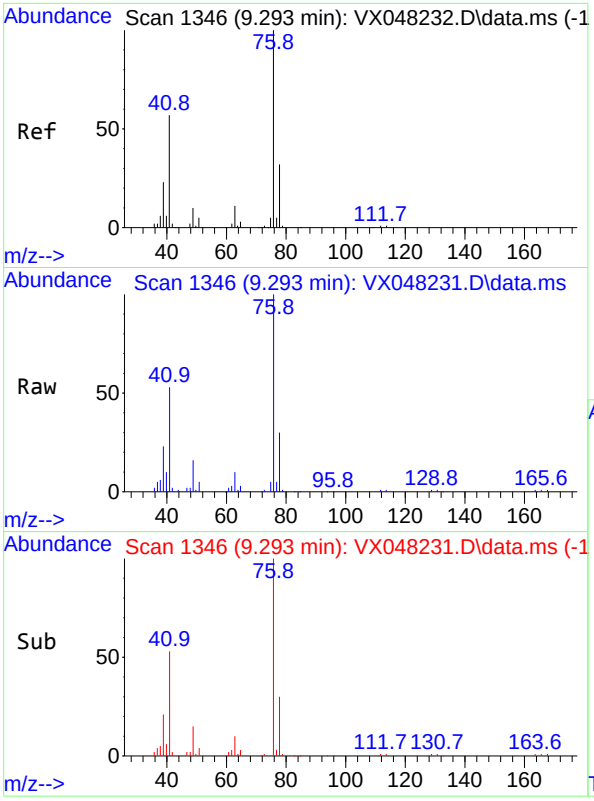


#56
Ethyl methacrylate
Concen: 22.021 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 69 Resp: 41809

Ion	Ratio	Lower	Upper
69	100		
41	63.2	56.0	84.0
39	36.3	31.6	47.4



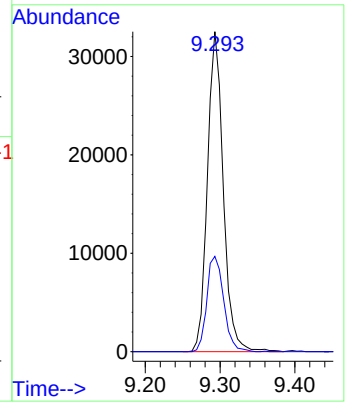


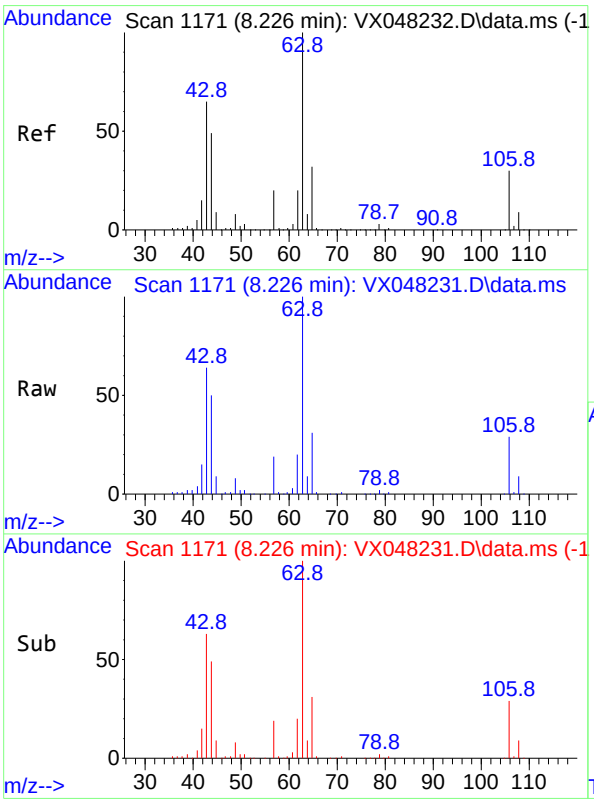
#57
1,3-Dichloropropane
Concen: 21.602 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 47896

Ion	Ratio	Lower	Upper
76	100		
78	31.7	25.4	38.0

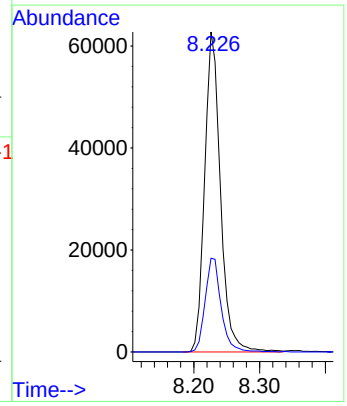


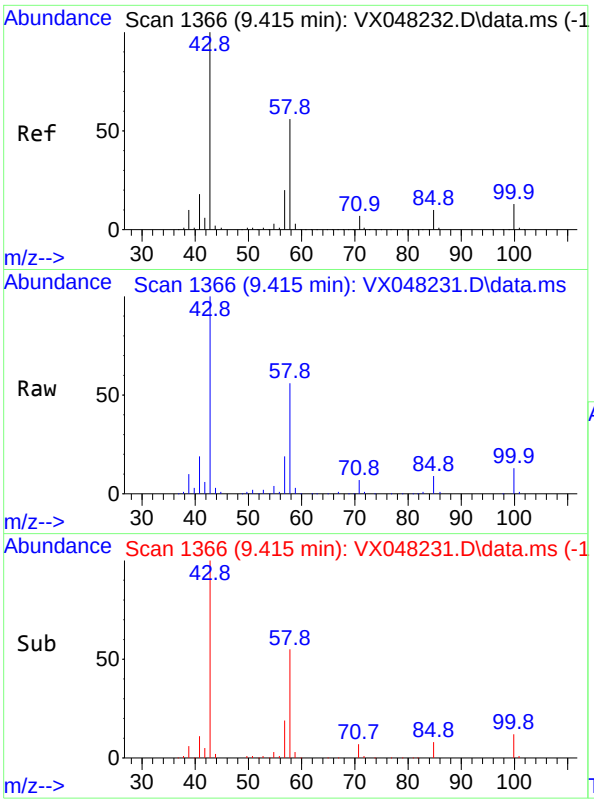


#58
2-Chloroethyl Vinyl ether
Concen: 103.739 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 63 Resp: 104883

Ion	Ratio	Lower	Upper
63	100		
106	29.7	22.2	33.2



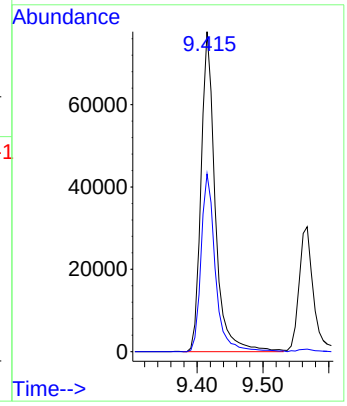


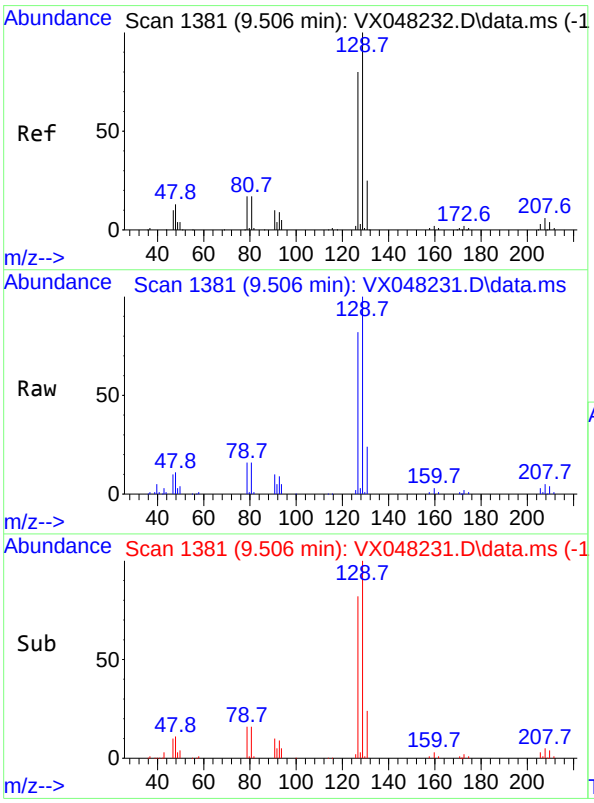
#59
2-Hexanone
Concen: 112.243 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 116268

Ion	Ratio	Lower	Upper
43	100		
58	56.1	26.3	78.8

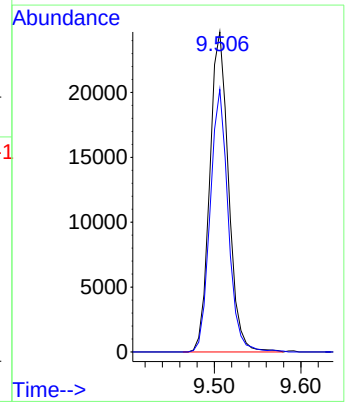


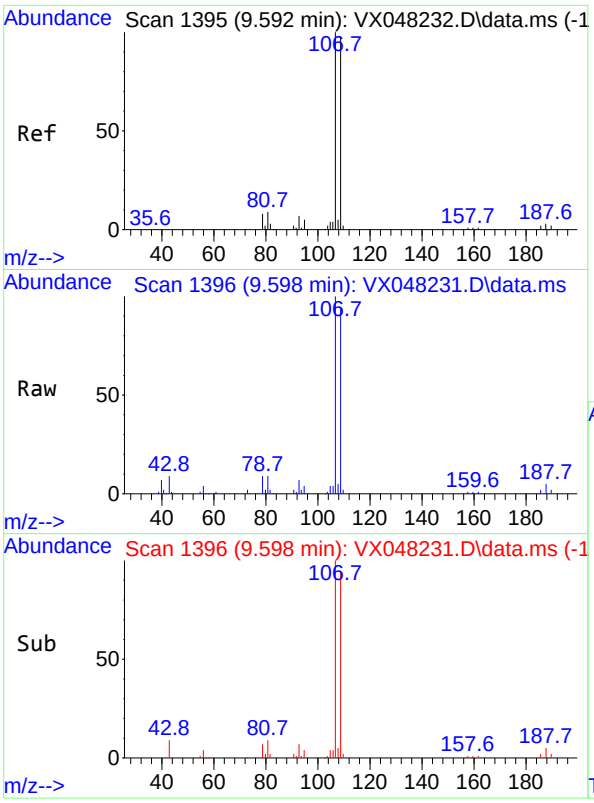


#60
Dibromochloromethane
Concen: 21.281 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:129 Resp: 37127

Ion	Ratio	Lower	Upper
129	100		
127	78.9	38.6	115.7



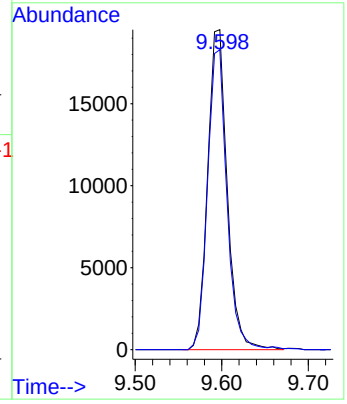


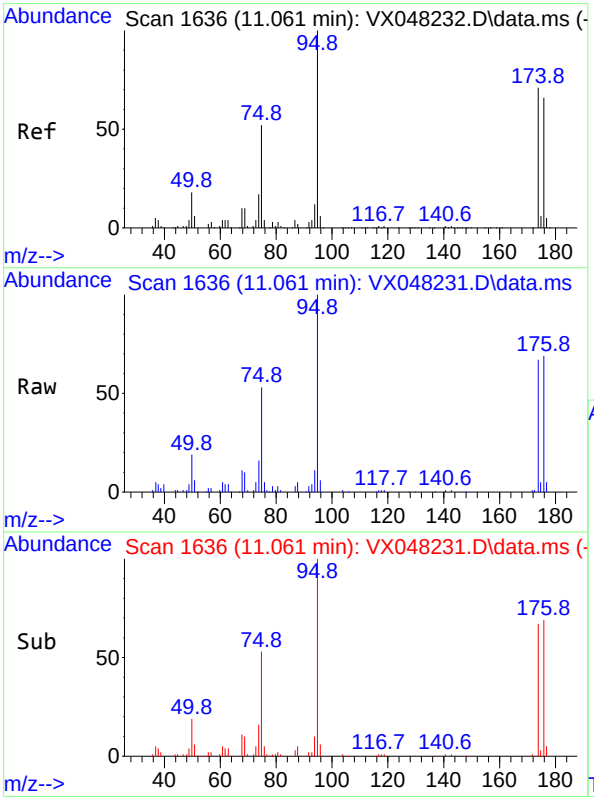
#61
1,2-Dibromoethane
Concen: 22.141 ug/l
RT: 9.598 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 30639

Ion	Ratio	Lower	Upper
107	100		
109	92.2	77.0	115.4

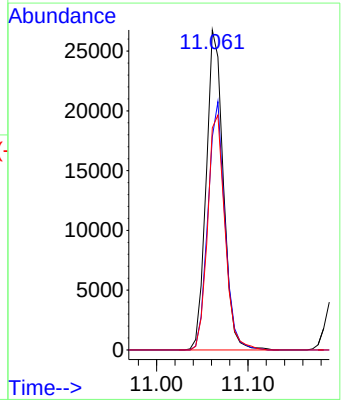


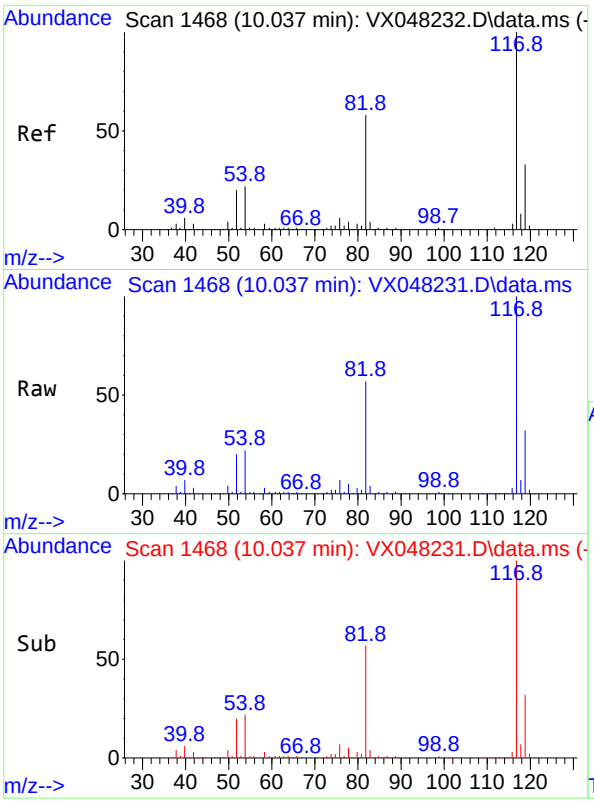


#62
4-Bromofluorobenzene
Concen: 19.558 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 95 Resp: 34724

Ion	Ratio	Lower	Upper
95	100		
174	76.8	0.0	147.8
176	74.3	0.0	142.8



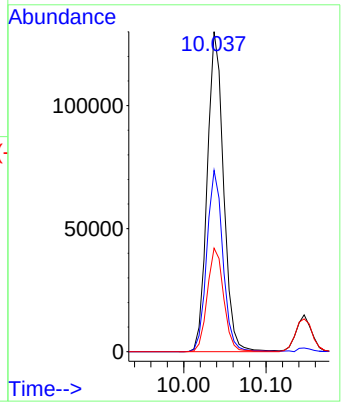


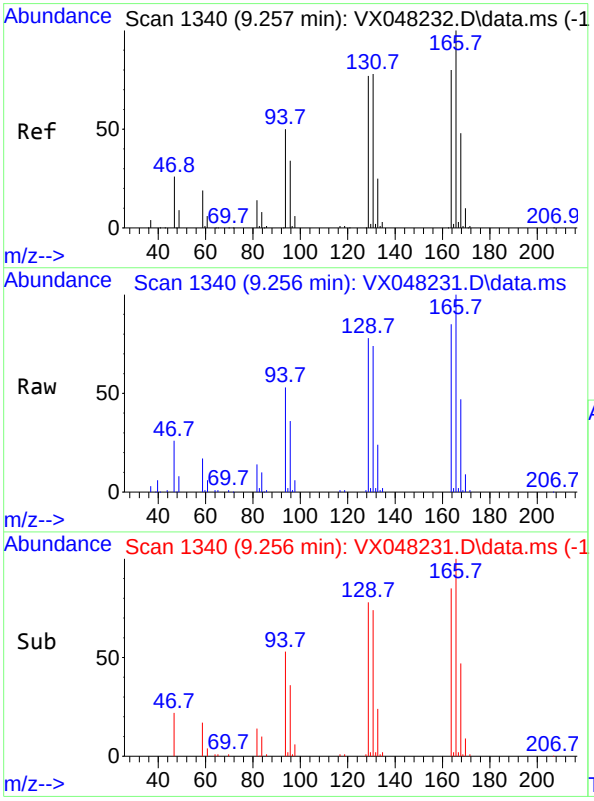
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:117 Resp: 178975

Ion	Ratio	Lower	Upper
117	100		
82	56.6	46.5	69.7
119	32.4	25.9	38.9

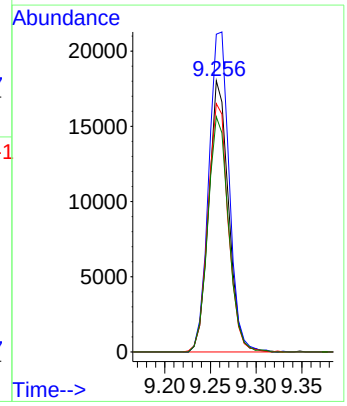


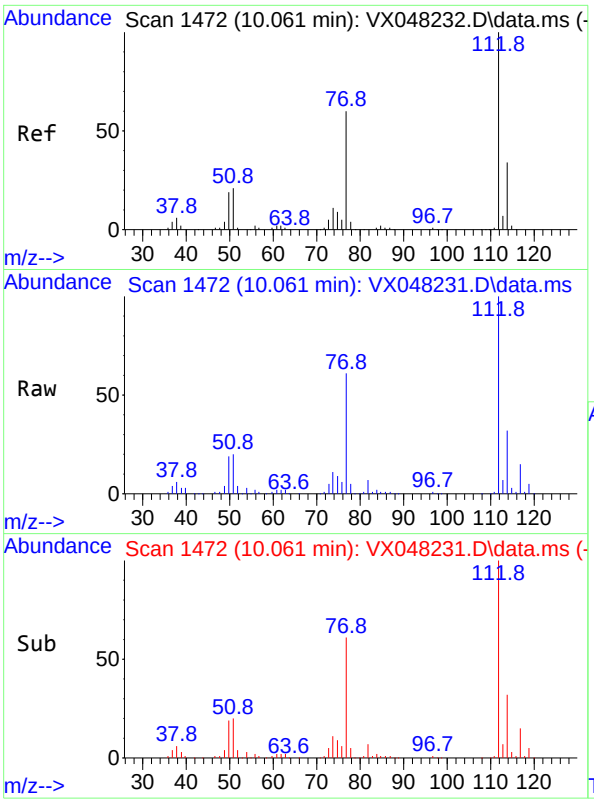


#64
Tetrachloroethene
Concen: 20.240 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:164 Resp: 27043

Ion	Ratio	Lower	Upper
164	100		
166	117.2	104.5	156.7
129	91.6	81.8	122.6
131	86.7	77.0	115.6



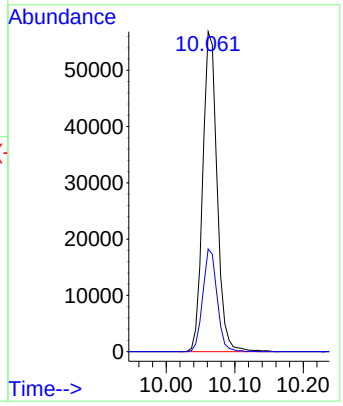


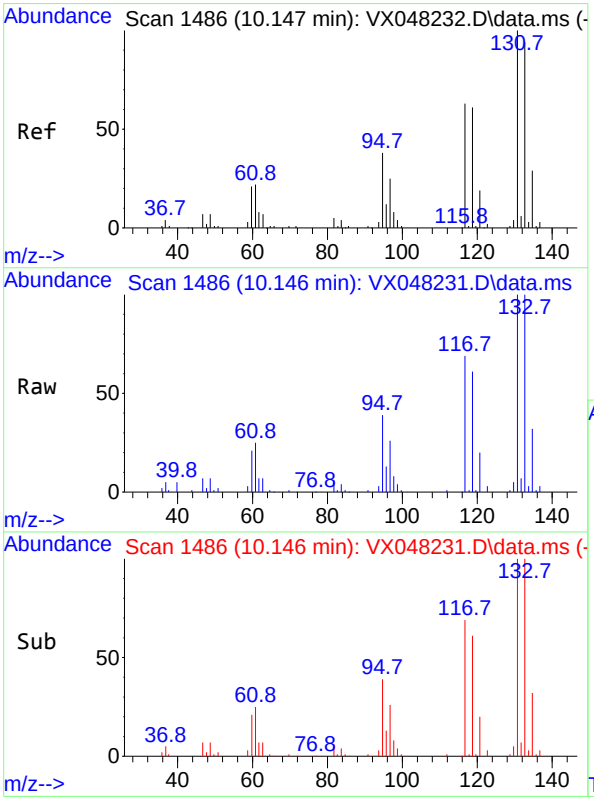
#65
Chlorobenzene
Concen: 20.617 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 83004

Ion	Ratio	Lower	Upper
112	100		
114	32.1	26.2	39.2

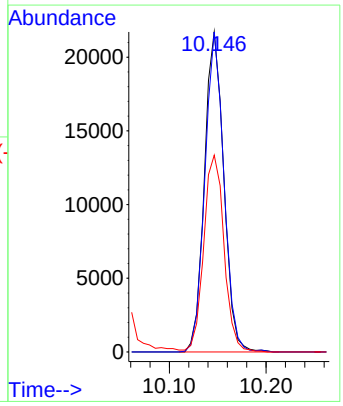


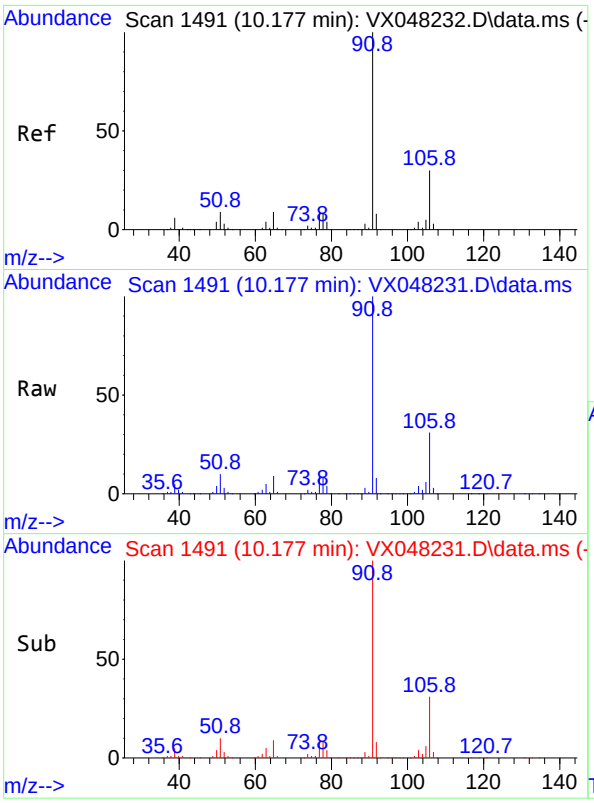


#66
1,1,1,2-Tetrachloroethane
Concen: 20.475 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:131 Resp: 30278

Ion	Ratio	Lower	Upper
131	100		
133	98.2	47.6	142.8
119	64.5	32.5	97.5



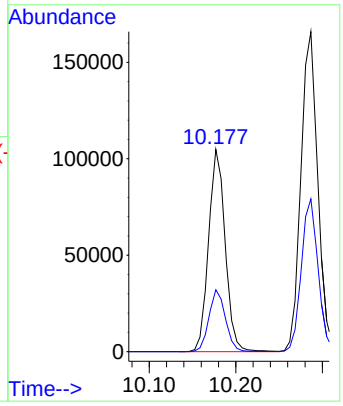


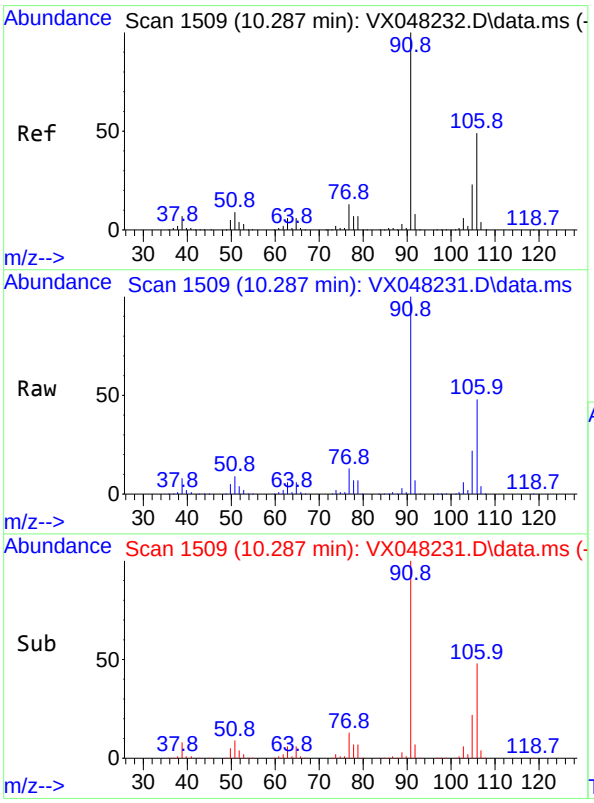
#67
Ethyl Benzene
Concen: 20.409 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 139895

Ion	Ratio	Lower	Upper
91	100		
106	30.6	23.8	35.6

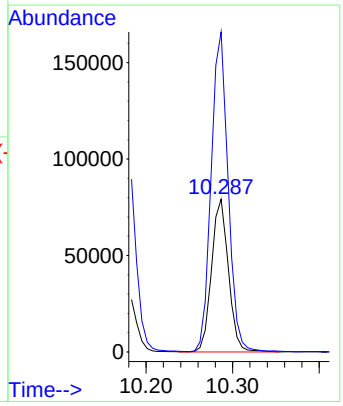


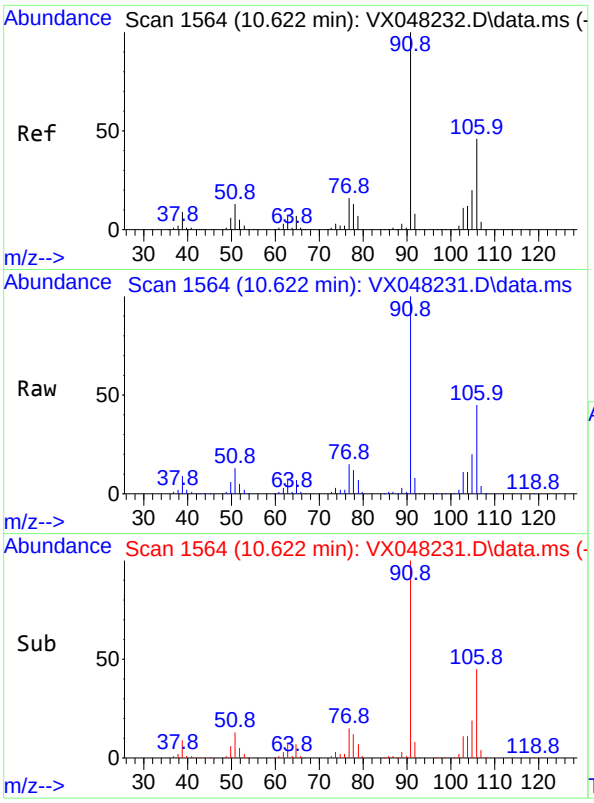


#68
m/p-Xylenes
Concen: 42.161 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:106 Resp: 107377

Ion	Ratio	Lower	Upper
106	100		
91	209.9	167.9	251.9



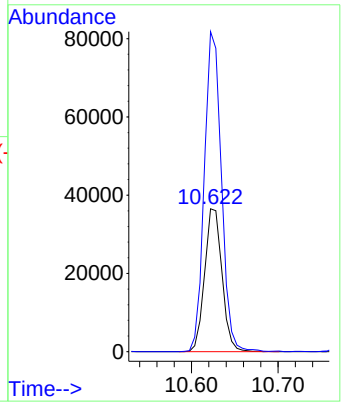


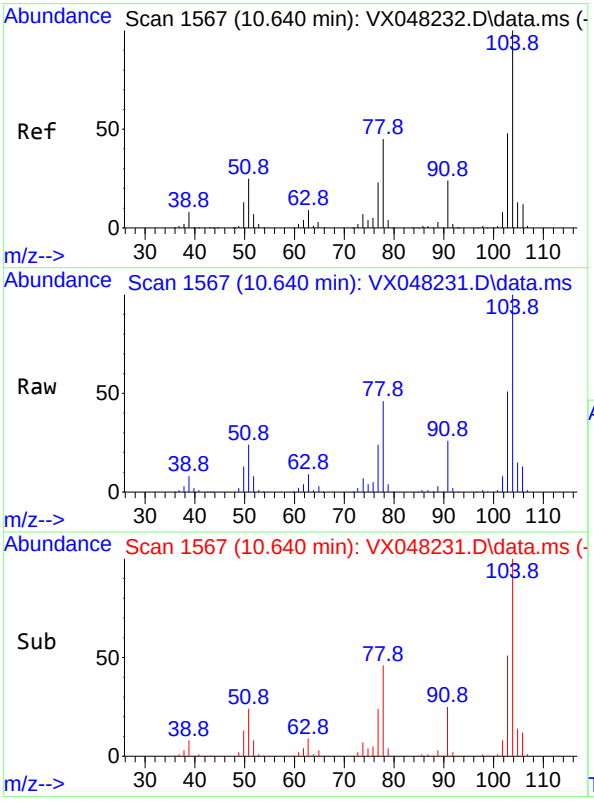
#69
o-Xylene
Concen: 20.721 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 50950

Ion	Ratio	Lower	Upper
106	100		
91	220.1	111.3	333.9

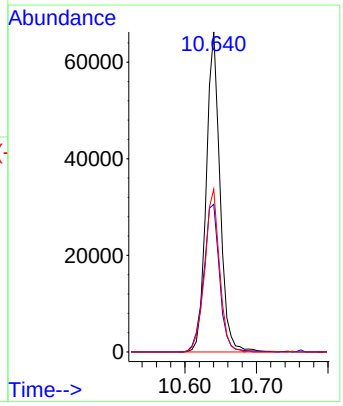


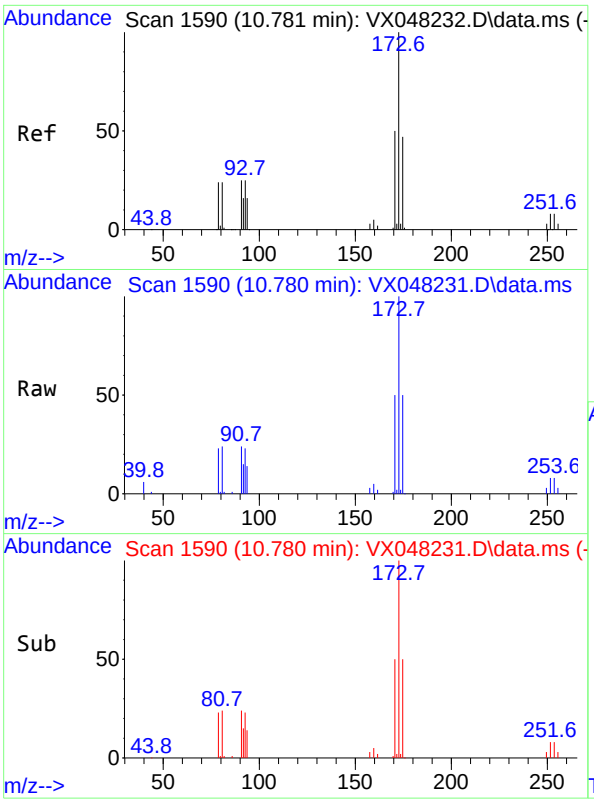


#70
Styrene
Concen: 21.134 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:104 Resp: 88481

Ion	Ratio	Lower	Upper
104	100		
78	53.5	42.2	63.4
103	54.7	43.0	64.4



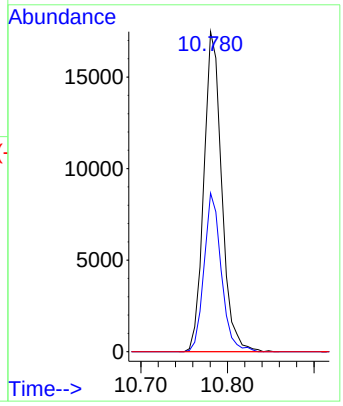


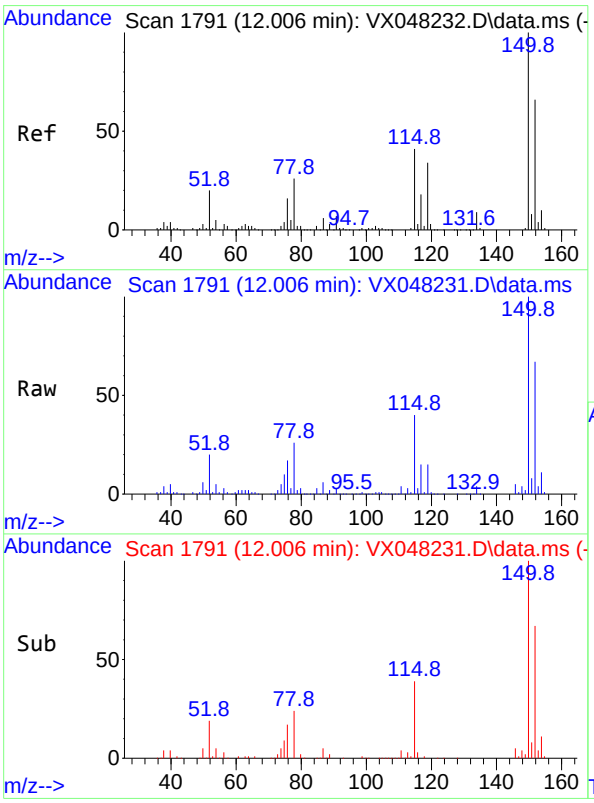
#71
Bromoform
Concen: 21.175 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:173 Resp: 25027

Ion	Ratio	Lower	Upper
173	100		
175	47.8	24.0	72.0
254	0.0	0.0	0.0

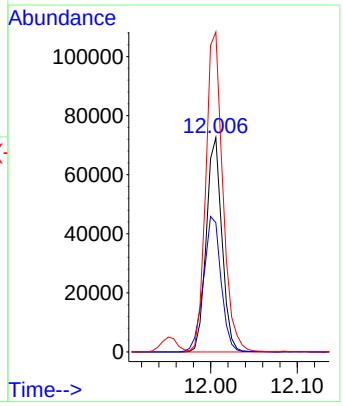


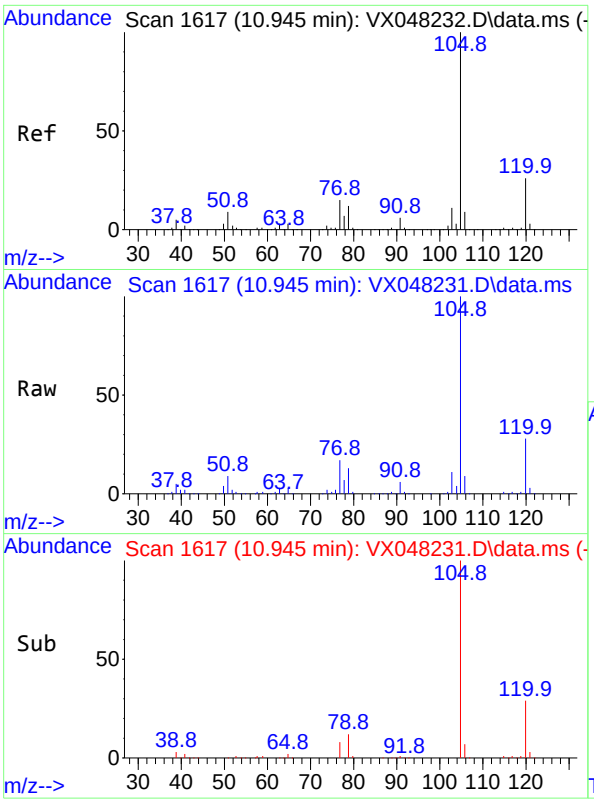


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:152 Resp: 90972

Ion	Ratio	Lower	Upper
152	100		
115	71.1	43.1	129.4
150	161.6	0.0	353.0



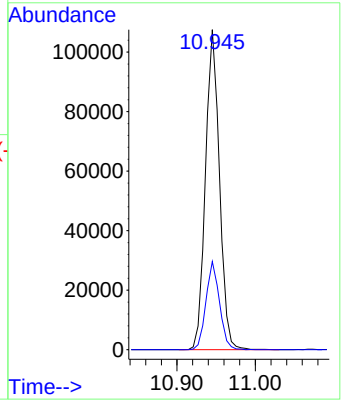


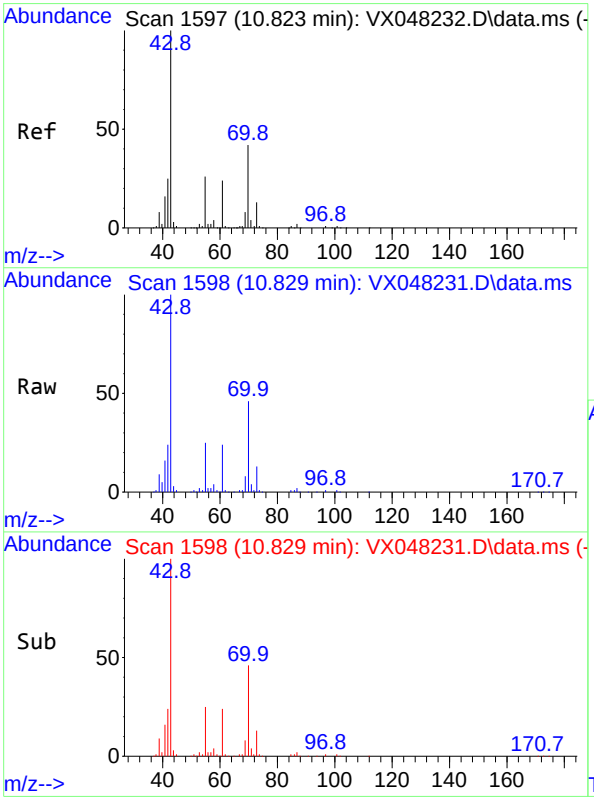
#73
Isopropylbenzene
Concen: 20.021 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 133034

Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.0	38.9

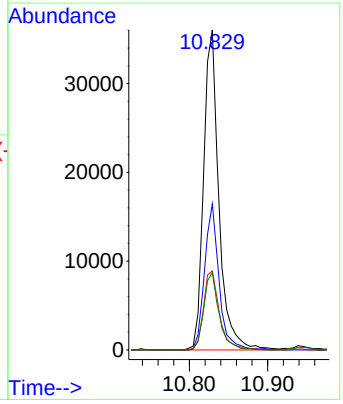


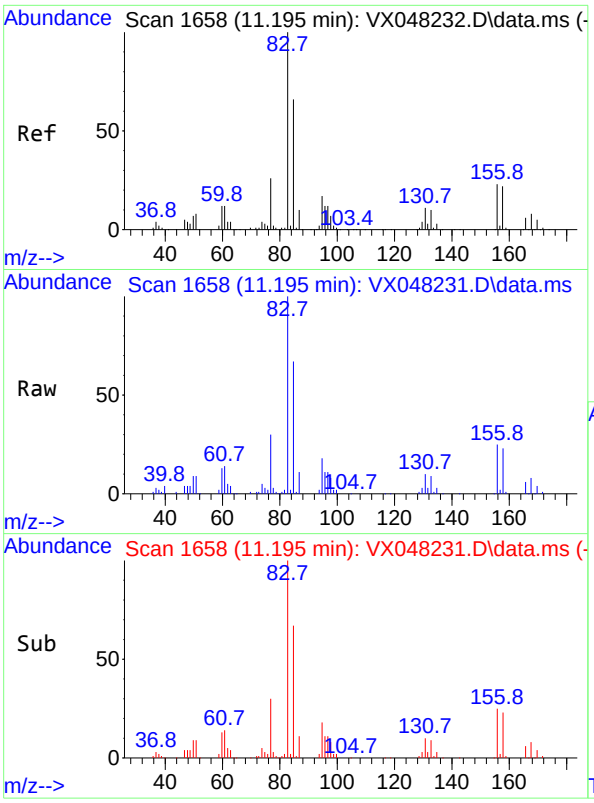


#74
N-amyl acetate
Concen: 20.674 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 43 Resp: 48726

Ion	Ratio	Lower	Upper
43	100		
70	43.4	32.2	48.2
55	25.5	19.1	28.7
61	24.3	18.6	28.0



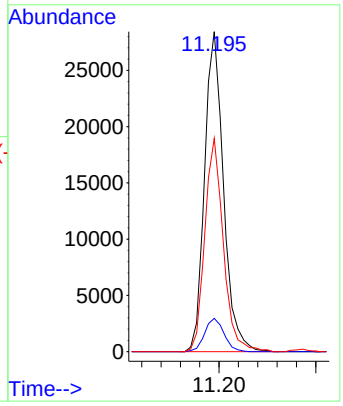


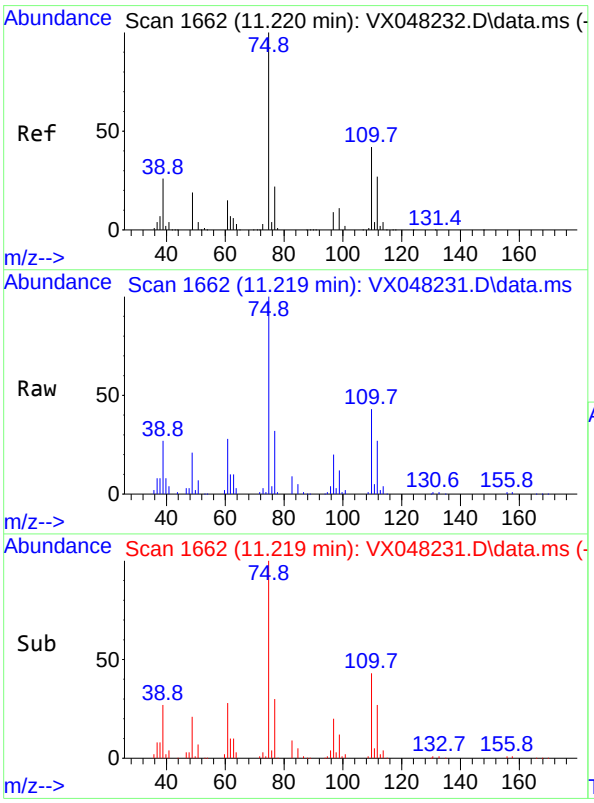
#75
1,1,2,2-Tetrachloroethane
Concen: 21.354 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 38748

Ion	Ratio	Lower	Upper
83	100		
131	10.6	4.8	14.4
85	65.2	31.9	95.7

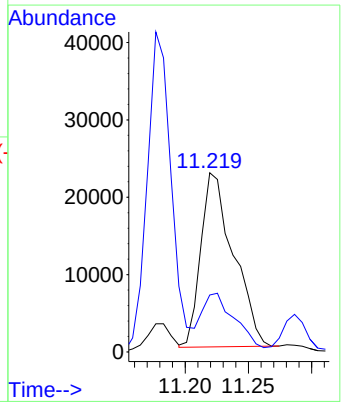


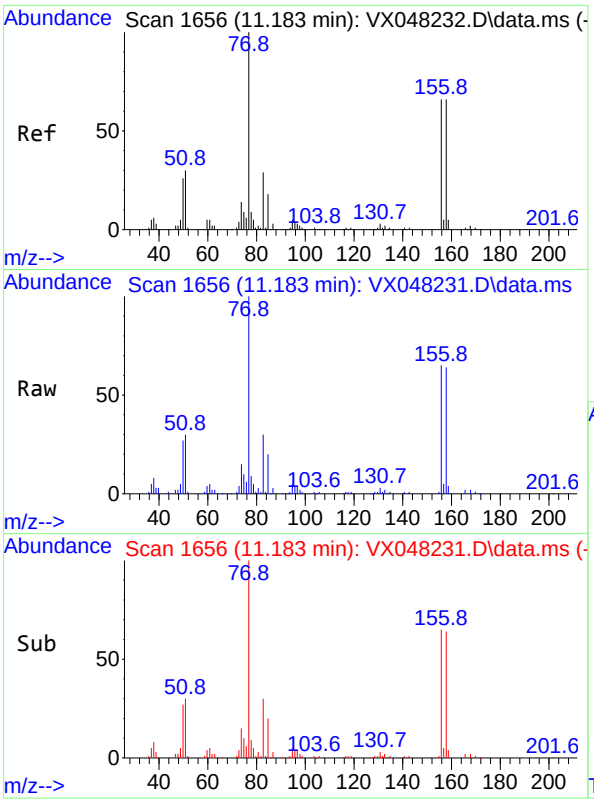


#76
1,2,3-Trichloropropane
Concen: 27.501 ug/l
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 75 Resp: 40571

Ion	Ratio	Lower	Upper
75	100		
77	34.1	22.4	67.2



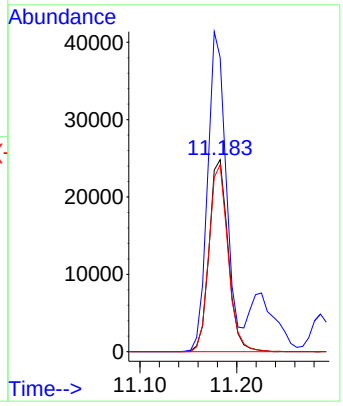


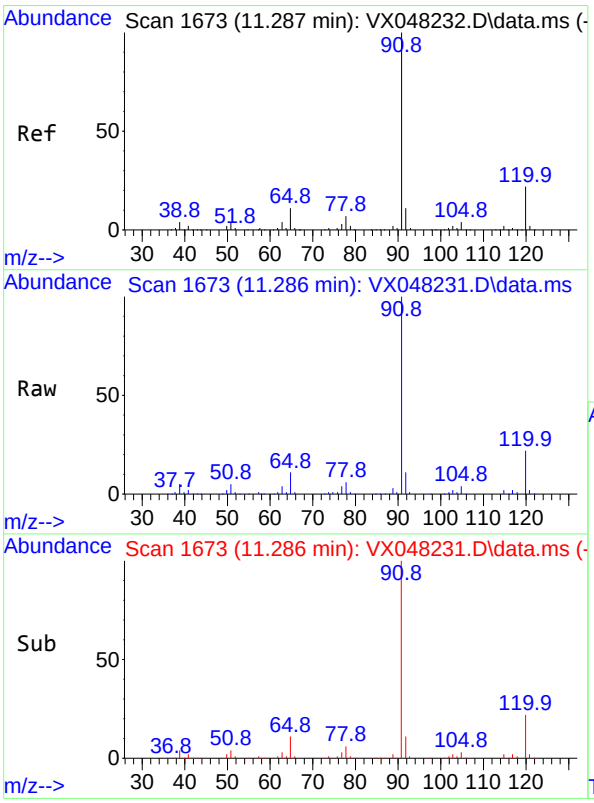
#77
Bromobenzene
Concen: 20.313 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 33843

Ion	Ratio	Lower	Upper
156	100		
77	164.0	87.0	261.0
158	97.7	47.8	143.4

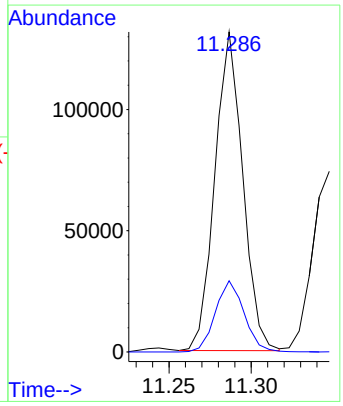


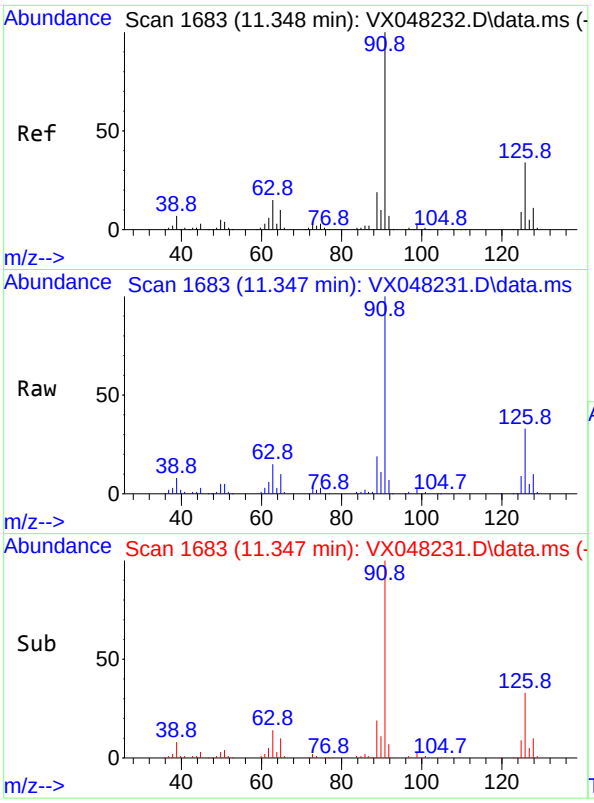


#78
n-propylbenzene
Concen: 20.126 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 91 Resp: 154839

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.1	33.1



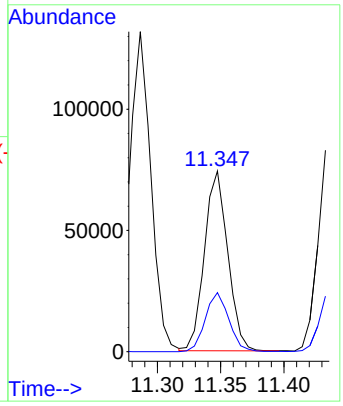


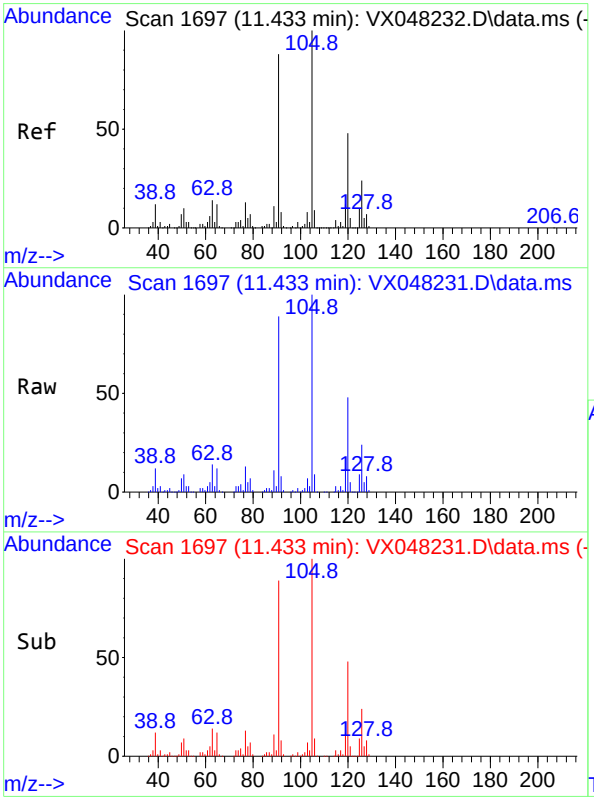
#79
2-Chlorotoluene
Concen: 20.401 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 95156

Ion	Ratio	Lower	Upper
91	100		
126	33.3	16.4	49.4

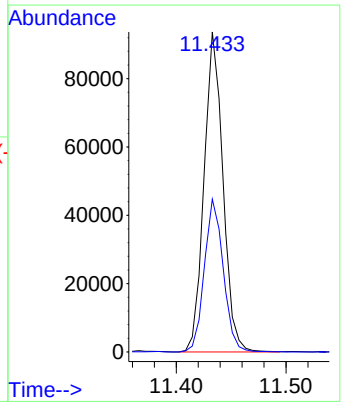


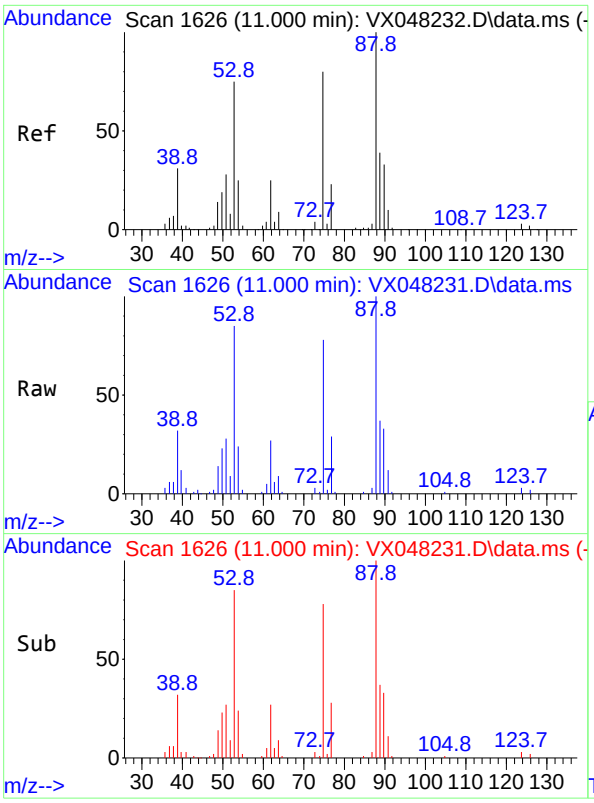


#80
1,3,5-Trimethylbenzene
Concen: 20.379 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:105 Resp: 112057

Ion	Ratio	Lower	Upper
105	100		
120	47.9	24.0	72.0



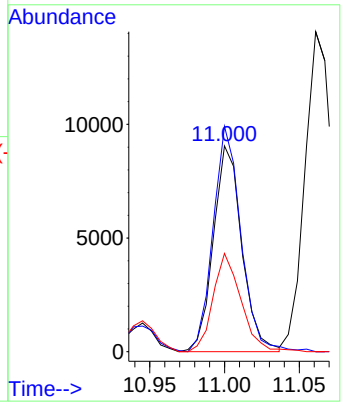


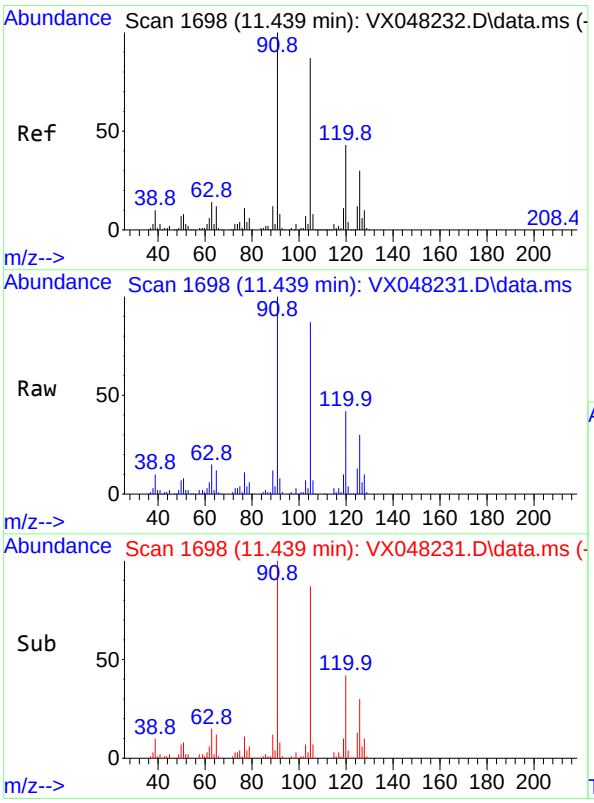
#81
trans-1,4-Dichloro-2-butene
Concen: 19.791 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 12001

Ion	Ratio	Lower	Upper
75	100		
53	107.3	79.5	119.3
89	46.9	36.8	55.2

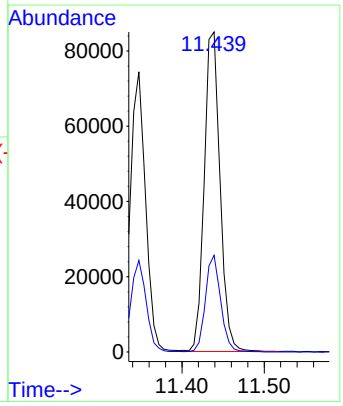


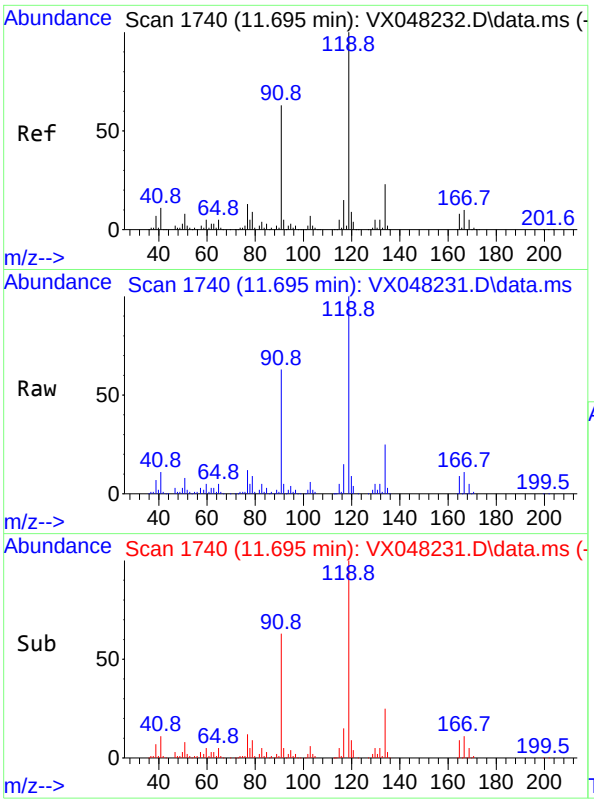


#82
4-Chlorotoluene
Concen: 20.498 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 91 Resp: 113495

Ion	Ratio	Lower	Upper
91	100		
126	29.3	14.1	42.4



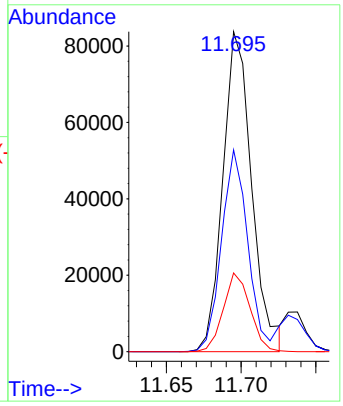


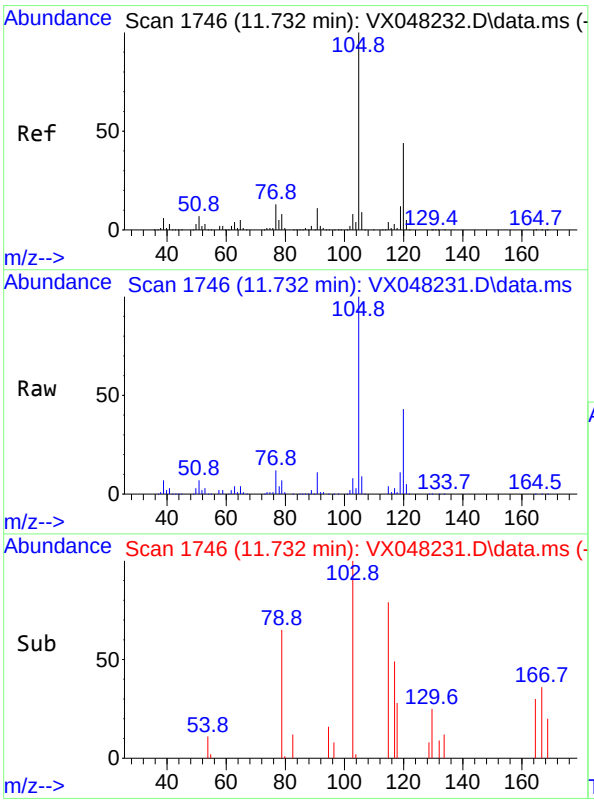
#83
tert-Butylbenzene
Concen: 19.878 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:119 Resp: 112305

Ion	Ratio	Lower	Upper
119	100		
91	57.4	30.3	91.0
134	22.8	11.4	34.2

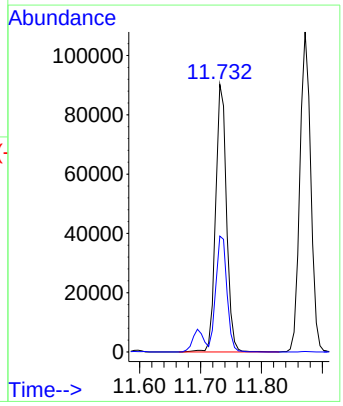


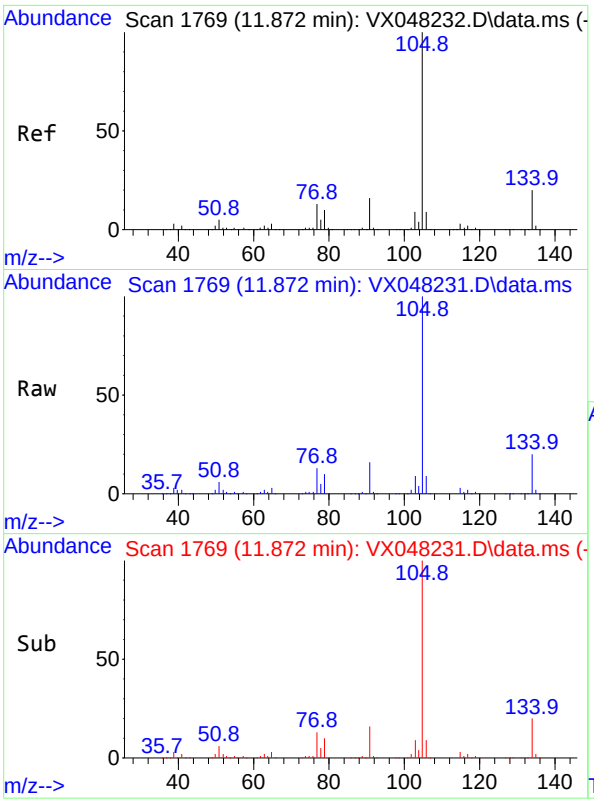


#84
1,2,4-Trimethylbenzene
Concen: 20.405 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:105 Resp: 111976

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.1	66.5



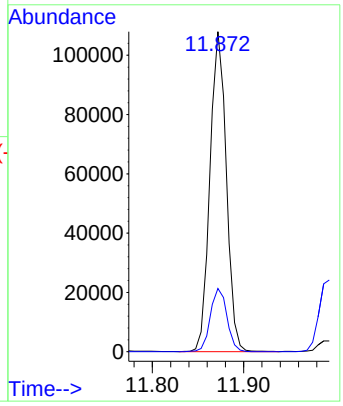


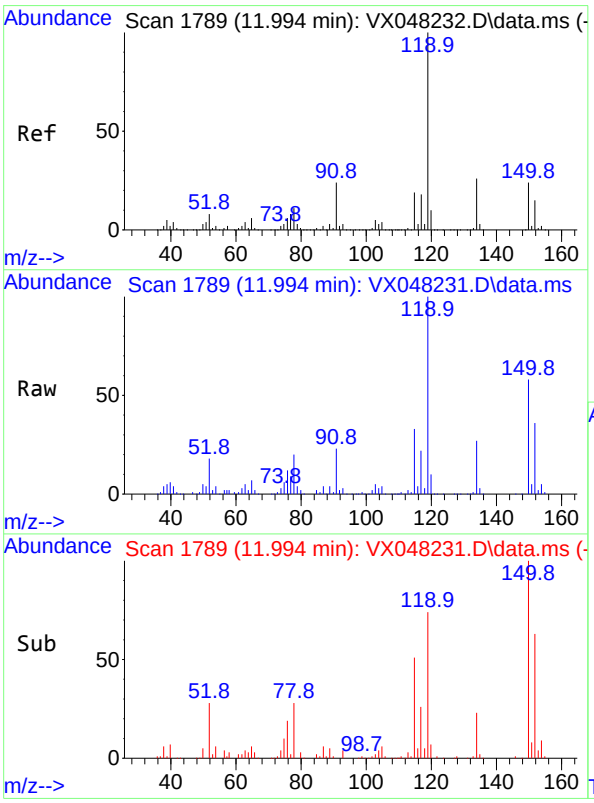
#85
sec-Butylbenzene
Concen: 19.716 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 134014

Ion	Ratio	Lower	Upper
105	100		
134	20.0	10.1	30.1

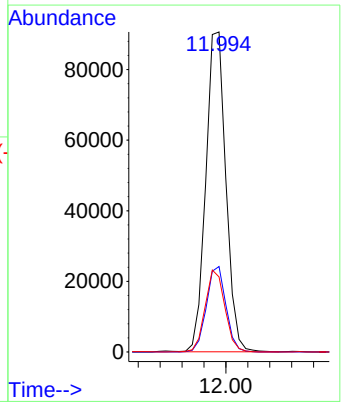


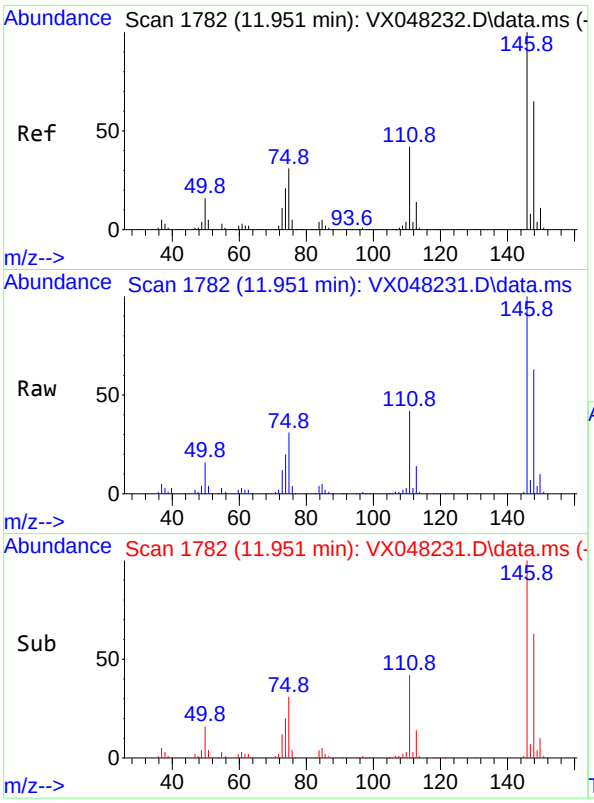


#86
p-Isopropyltoluene
Concen: 19.568 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:119 Resp: 114969

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.0	39.0
91	25.1	12.1	36.3



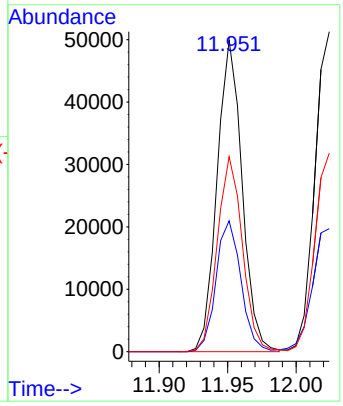


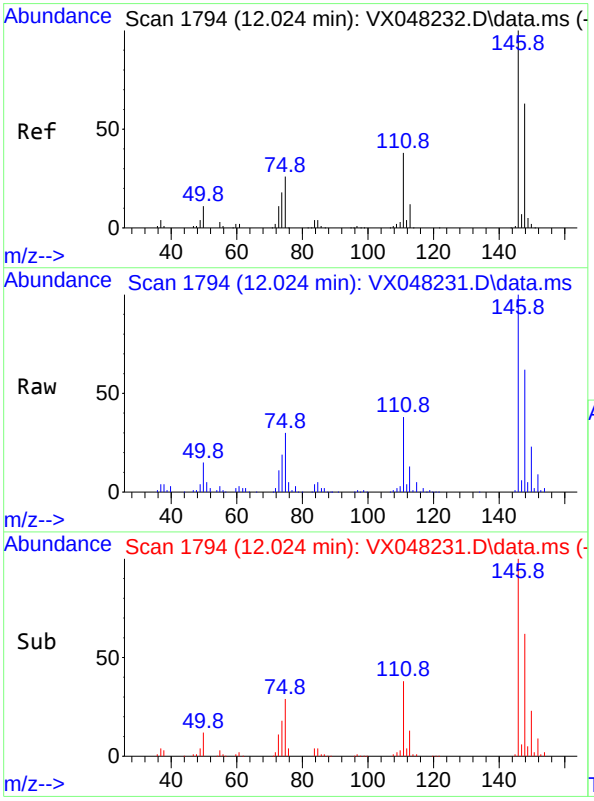
#87
1,3-Dichlorobenzene
Concen: 20.178 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 63377

Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.4	61.2
148	63.1	31.9	95.9

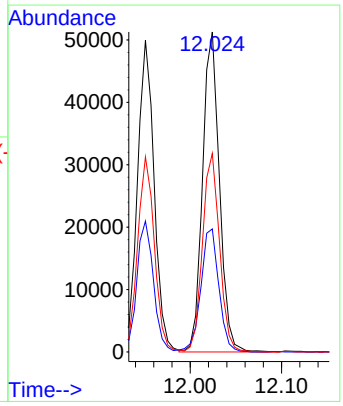


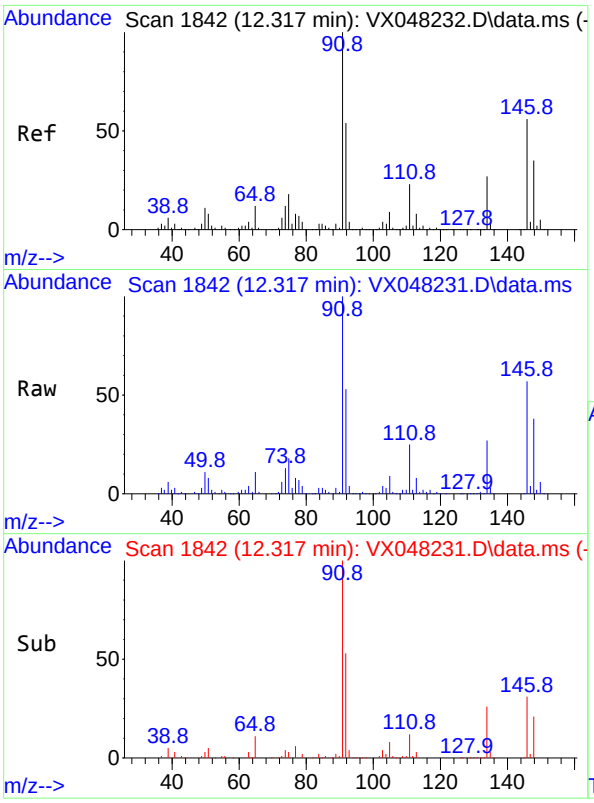


#88
1,4-Dichlorobenzene
Concen: 20.165 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:146 Resp: 65612

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.1	60.2
148	62.6	31.8	95.3



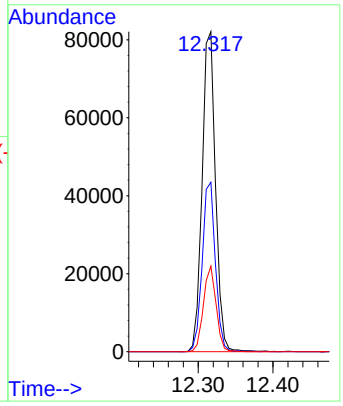


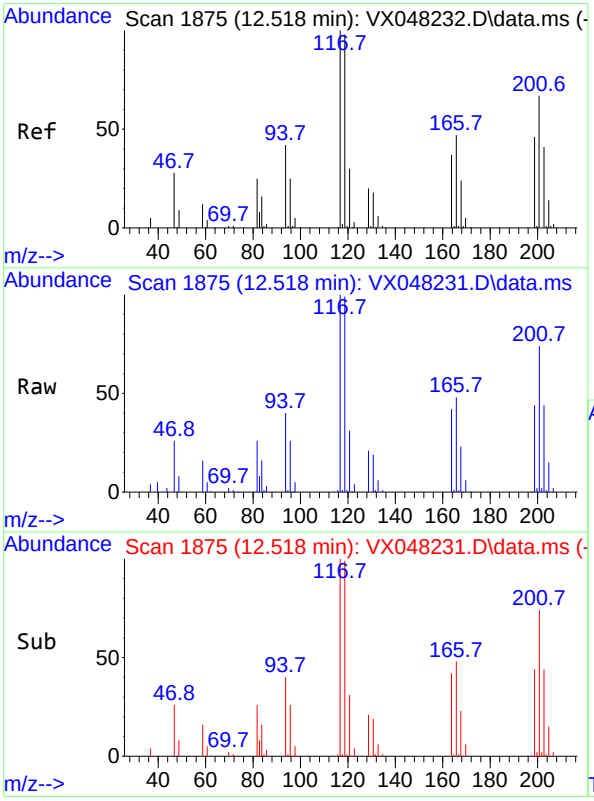
#89
n-Butylbenzene
Concen: 19.100 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 102140

Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.9	80.6
134	25.2	12.7	38.1

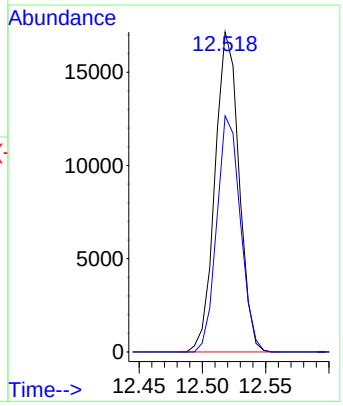


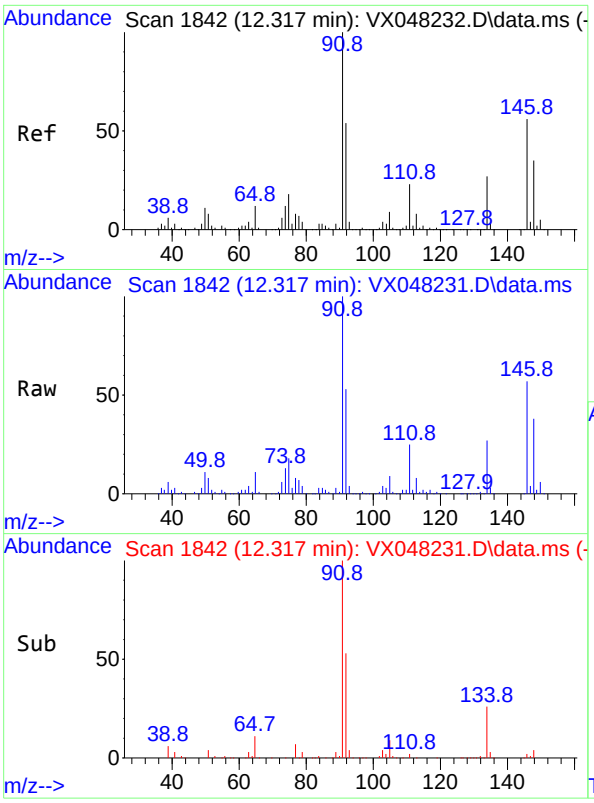


#90
Hexachloroethane
Concen: 19.487 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:117 Resp: 22609

Ion	Ratio	Lower	Upper
117	100		
201	72.6	34.1	102.2



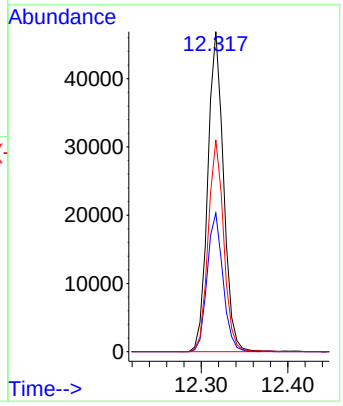


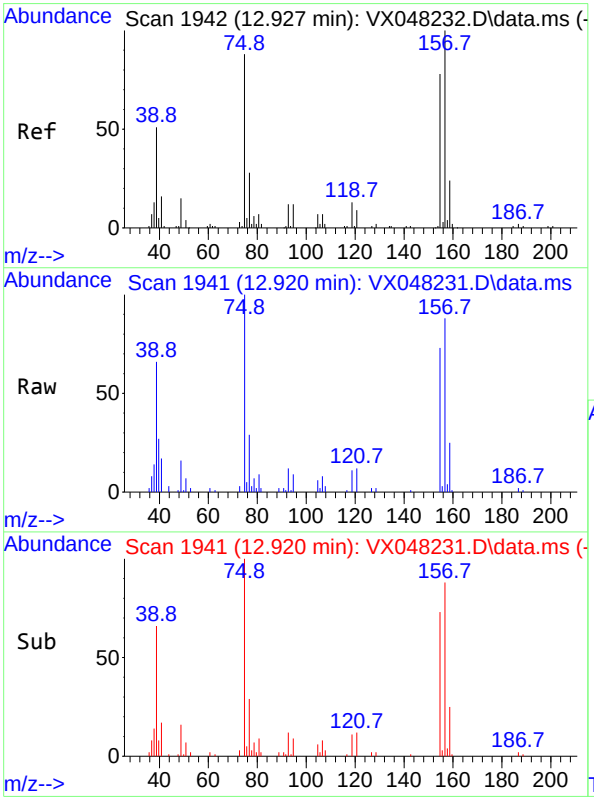
#91
1,2-Dichlorobenzene
Concen: 20.125 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 59345

Ion	Ratio	Lower	Upper
146	100		
111	43.2	21.9	65.5
148	64.9	31.9	95.5

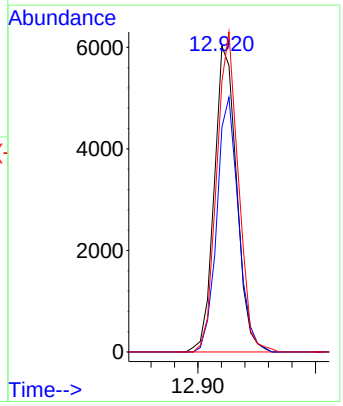


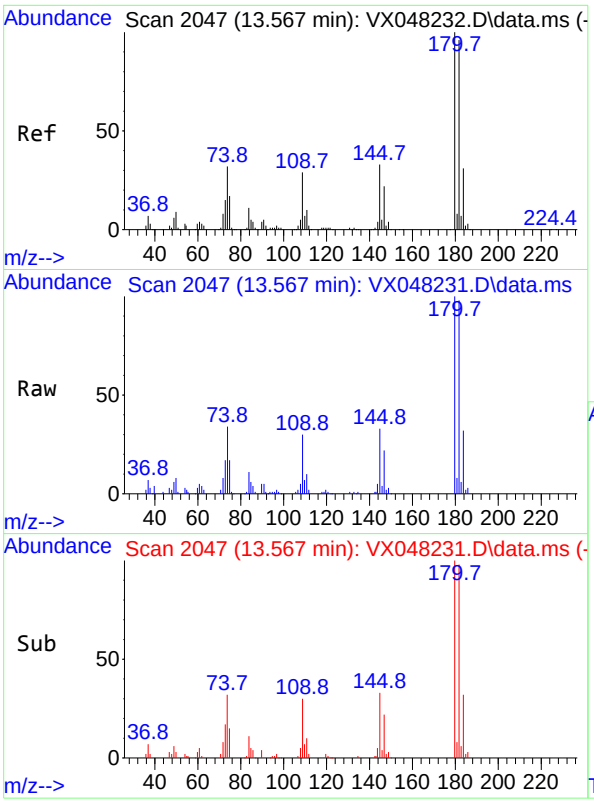


#92
1,2-Dibromo-3-Chloropropane
Concen: 21.674 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 75 Resp: 7983

Ion	Ratio	Lower	Upper
75	100		
155	80.3	42.8	128.4
157	101.4	54.2	162.6



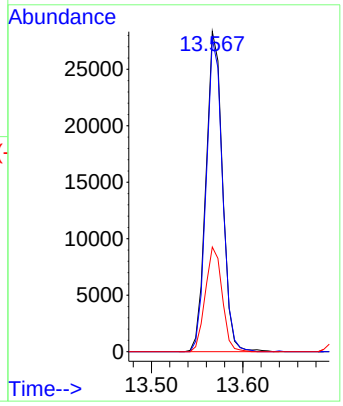


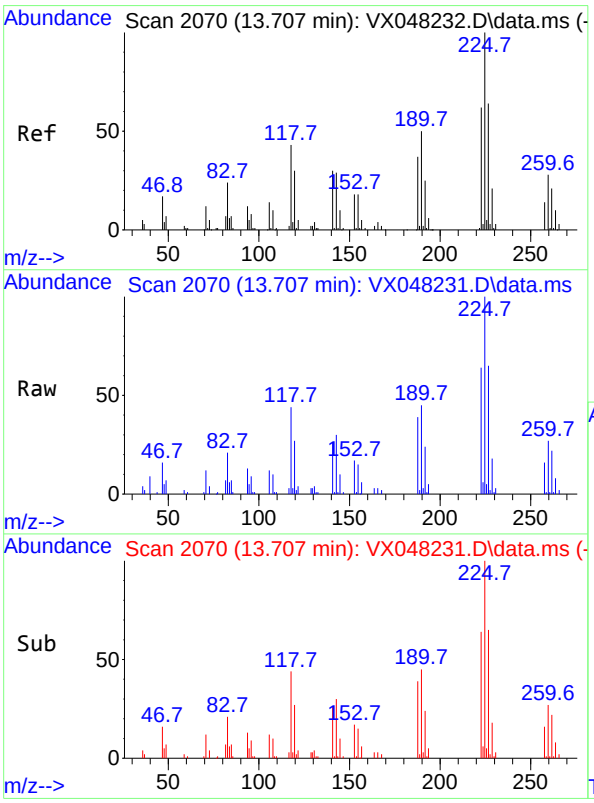
#93
1,2,4-Trichlorobenzene
Concen: 17.784 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:180 Resp: 35465

Ion	Ratio	Lower	Upper
180	100		
182	96.3	47.3	142.0
145	33.2	16.3	48.9

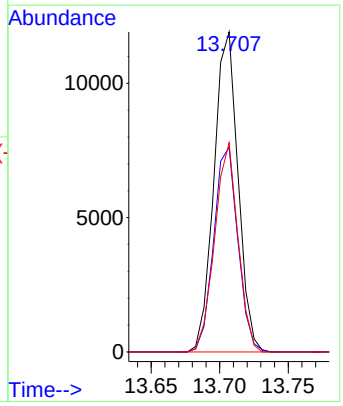


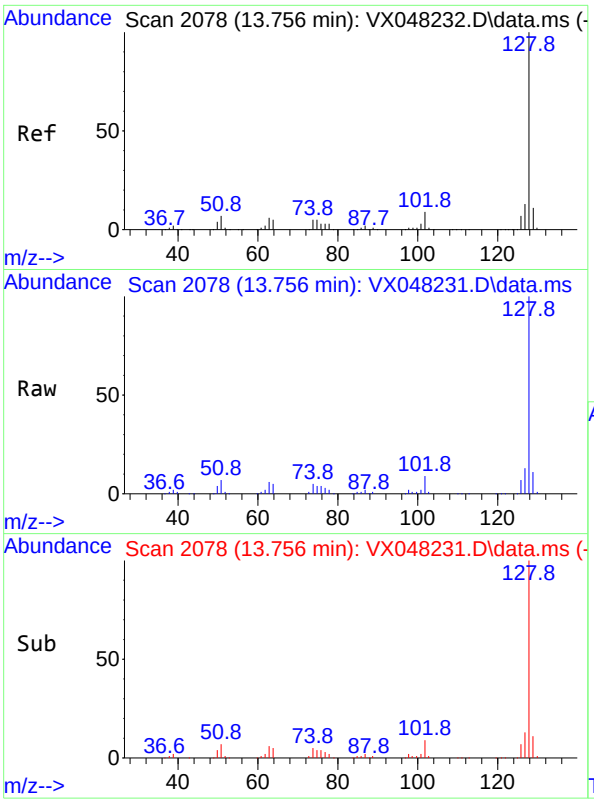


#94
Hexachlorobutadiene
Concen: 19.483 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:225 Resp: 14529

Ion	Ratio	Lower	Upper
225	100		
223	64.3	32.6	97.7
227	63.2	32.5	97.4



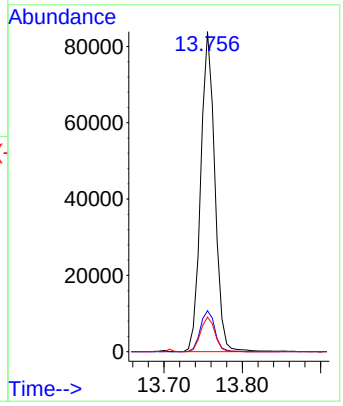


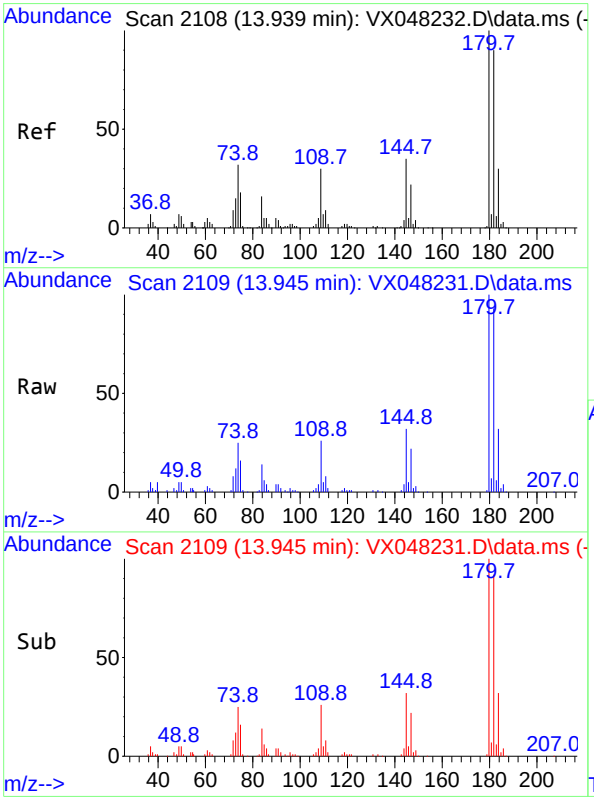
#95
Naphthalene
Concen: 19.836 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:128 Resp: 104803

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.2	15.4
129	11.0	8.6	12.8

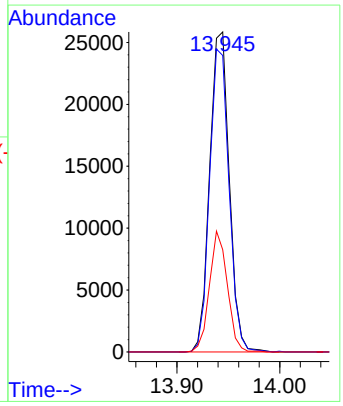




#96
1,2,3-Trichlorobenzene
Concen: 18.730 ug/l
RT: 13.945 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:180 Resp: 34276

Ion	Ratio	Lower	Upper
180	100		
182	94.0	46.6	139.7
145	34.6	16.9	50.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048232.D
Acq On : 20 Oct 2025 12:01
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Oct 25 03:35:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	124491	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	201906	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	184494	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	92693	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	84951	48.670	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 97.340%			
35) Dibromofluoromethane	5.379	113	66593	48.312	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.620%			
50) Toluene-d8	8.635	98	239295	49.529	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.060%			
62) 4-Bromofluorobenzene	11.061	95	89579	48.737	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 97.480%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	60172	47.017	ug/l	98
3) Chloromethane	1.301	50	55934	46.824	ug/l	100
4) Vinyl Chloride	1.380	62	51819	46.845	ug/l	99
5) Bromomethane	1.618	94	35101	46.757	ug/l	98
6) Chloroethane	1.697	64	30718	47.258	ug/l	95
7) Trichlorofluoromethane	1.898	101	100423	47.336	ug/l	99
8) Diethyl Ether	2.136	74	27723	46.442	ug/l	87
9) 1,1,2-Trichlorotrifluo...	2.337	101	62391	46.442	ug/l	95
10) Methyl Iodide	2.459	142	82552	48.881	ug/l	99
11) Tert butyl alcohol	2.947	59	38534	222.353	ug/l	99
12) 1,1-Dichloroethene	2.325	96	60330	46.160	ug/l	94
13) Acrolein	2.239	56	40536	229.343	ug/l	100
14) Allyl chloride	2.666	41	100234	46.192	ug/l	97
15) Acrylonitrile	3.056	53	149009	238.450	ug/l	100
16) Acetone	2.374	43	126003	210.429	ug/l	100
17) Carbon Disulfide	2.514	76	179492	43.575	ug/l	99
18) Methyl Acetate	2.703	43	58071	46.437	ug/l	91
19) Methyl tert-butyl Ether	3.111	73	212092	47.567	ug/l	96
20) Methylene Chloride	2.788	84	68663	47.061	ug/l	94
21) trans-1,2-Dichloroethene	3.093	96	66608	46.395	ug/l	96
22) Diisopropyl ether	3.757	45	206901	47.805	ug/l	91
23) Vinyl Acetate	3.715	43	839370	242.786	ug/l	97
24) 1,1-Dichloroethane	3.611	63	121657	46.487	ug/l	99
25) 2-Butanone	4.544	43	175075	230.996	ug/l	93
26) 2,2-Dichloropropane	4.471	77	109062	46.171	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	77911	46.500	ug/l	98
28) Bromochloromethane	4.885	49	54919	50.611	ug/l	85
29) Tetrahydrofuran	4.989	42	106381	234.362	ug/l	93
30) Chloroform	5.087	83	130274	46.594	ug/l	96
31) Cyclohexane	5.465	56	102251	47.194	ug/l	92
32) 1,1,1-Trichloroethane	5.373	97	121090	46.992	ug/l	99
36) 1,1-Dichloropropene	5.684	75	87493	44.659	ug/l	98
37) Ethyl Acetate	4.702	43	74261	45.730	ug/l	97
38) Carbon Tetrachloride	5.666	117	111708	46.216	ug/l	98
39) Methylcyclohexane	7.367	83	109077	47.143	ug/l	94
40) Benzene	6.025	78	262745	46.192	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048232.D
Acq On : 20 Oct 2025 12:01
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Oct 25 03:35:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.904	41	41293	48.421	ug/l		96
42) 1,2-Dichloroethane	6.074	62	100937	48.090	ug/l		99
43) Isopropyl Acetate	6.324	43	128290	48.095	ug/l		96
44) Trichloroethene	7.111	130	70313	46.815	ug/l		98
45) 1,2-Dichloropropane	7.415	63	64895	47.986	ug/l		99
46) Dibromomethane	7.568	93	49874	47.337	ug/l		94
47) Bromodichloromethane	7.806	83	108671	47.770	ug/l		97
48) Methyl methacrylate	7.678	41	65057	48.334	ug/l		94
49) 1,4-Dioxane	7.647	88	17905	1006.888	ug/l		90
51) 4-Methyl-2-Pentanone	8.555	43	380665	247.515	ug/l		95
52) Toluene	8.702	92	173942	48.136	ug/l		100
53) t-1,3-Dichloropropene	8.964	75	109960	50.159	ug/l		99
54) cis-1,3-Dichloropropene	8.354	75	115534	48.847	ug/l		93
55) 1,1,2-Trichloroethane	9.135	97	64737	48.174	ug/l		96
56) Ethyl methacrylate	9.104	69	98851	50.292	ug/l		94
57) 1,3-Dichloropropane	9.293	76	110709	48.231	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	262387	248.279	ug/l		95
59) 2-Hexanone	9.415	43	269143	250.974	ug/l		96
60) Dibromochloromethane	9.506	129	85760	47.482	ug/l		98
61) 1,2-Dibromoethane	9.592	107	69022	48.180	ug/l		99
64) Tetrachloroethene	9.257	164	60510	43.934	ug/l		96
65) Chlorobenzene	10.061	112	192841	46.465	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.147	131	71930	47.187	ug/l		98
67) Ethyl Benzene	10.177	91	336660	47.645	ug/l		99
68) m/p-Xylenes	10.287	106	253662	96.619	ug/l		100
69) o-Xylene	10.622	106	122582	48.363	ug/l		98
70) Styrene	10.640	104	210861	48.857	ug/l		100
71) Bromoform	10.781	173	56874	46.682	ug/l	#	100
73) Isopropylbenzene	10.945	105	317974	46.966	ug/l		100
74) N-amyl acetate	10.823	43	115683	48.171	ug/l		96
75) 1,1,2,2-Tetrachloroethane	11.195	83	87705	47.437	ug/l		99
76) 1,2,3-Trichloropropane	11.220	75	99387	66.118	ug/l		79
77) Bromobenzene	11.183	156	79543	46.856	ug/l		94
78) n-propylbenzene	11.287	91	372312	47.496	ug/l		98
79) 2-Chlorotoluene	11.348	91	222217	46.757	ug/l		98
80) 1,3,5-Trimethylbenzene	11.433	105	265174	47.329	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	29295	47.415	ug/l		98
82) 4-Chlorotoluene	11.439	91	267236	47.367	ug/l		98
83) tert-Butylbenzene	11.695	119	270202	46.938	ug/l		96
84) 1,2,4-Trimethylbenzene	11.732	105	265485	47.480	ug/l		99
85) sec-Butylbenzene	11.872	105	322219	46.524	ug/l		100
86) p-Isopropyltoluene	11.994	119	276821	46.242	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	143699	44.902	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	146196	44.097	ug/l		99
89) n-Butylbenzene	12.317	91	243063	44.609	ug/l		99
90) Hexachloroethane	12.518	117	52735	44.609	ug/l		96
91) 1,2-Dichlorobenzene	12.317	146	138489	46.091	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.927	75	18059	48.120	ug/l		99
93) 1,2,4-Trichlorobenzene	13.567	180	88920	43.761	ug/l		99
94) Hexachlorobutadiene	13.707	225	34615	45.467	ug/l		97
95) Naphthalene	13.756	128	257281	47.792	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	84279	45.200	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048232.D
Acq On : 20 Oct 2025 12:01
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Oct 25 03:35:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

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

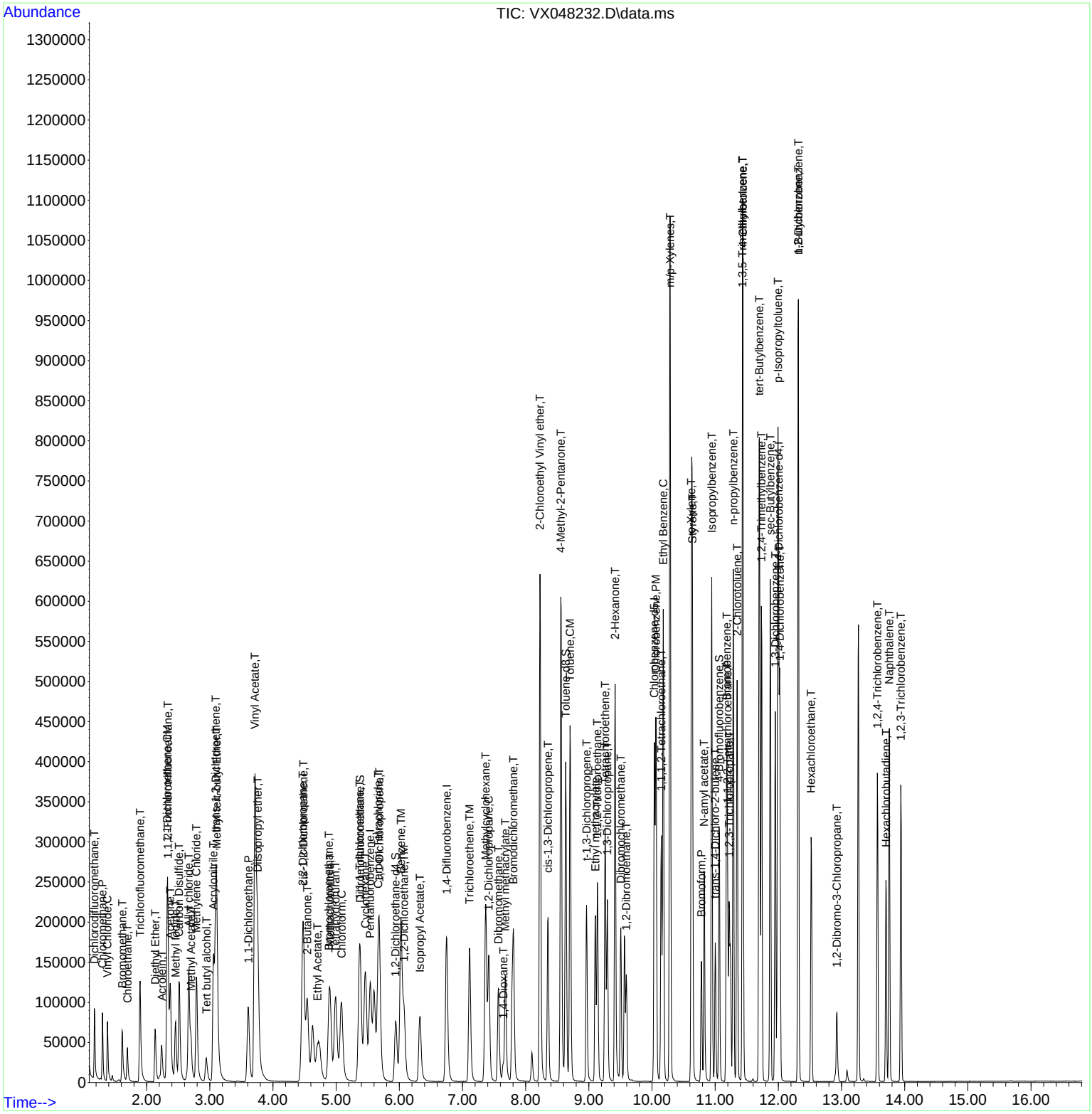
(#) = qualifier out of range (m) = manual integration (+) = signals summed

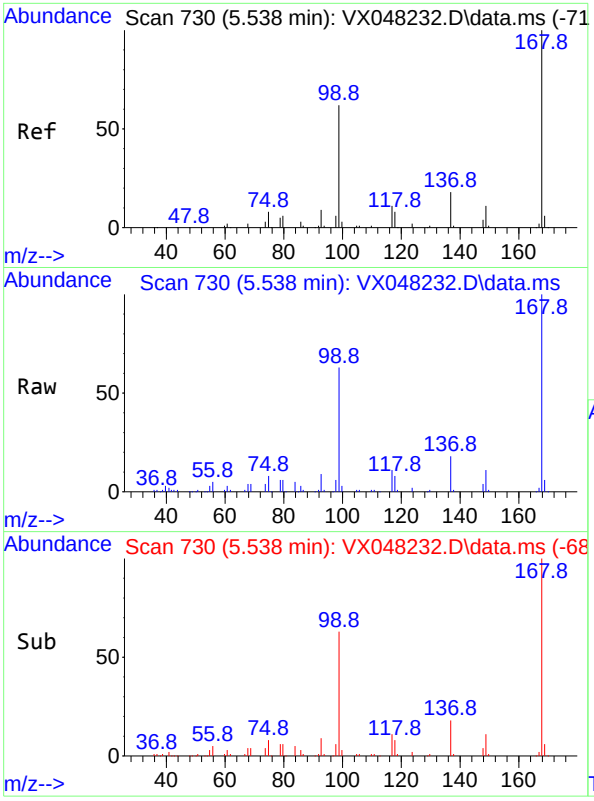
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048232.D
Acq On : 20 Oct 2025 12:01
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Oct 25 03:35:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration



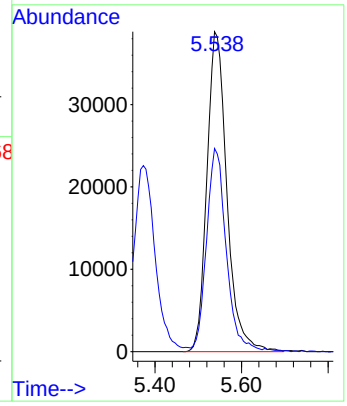


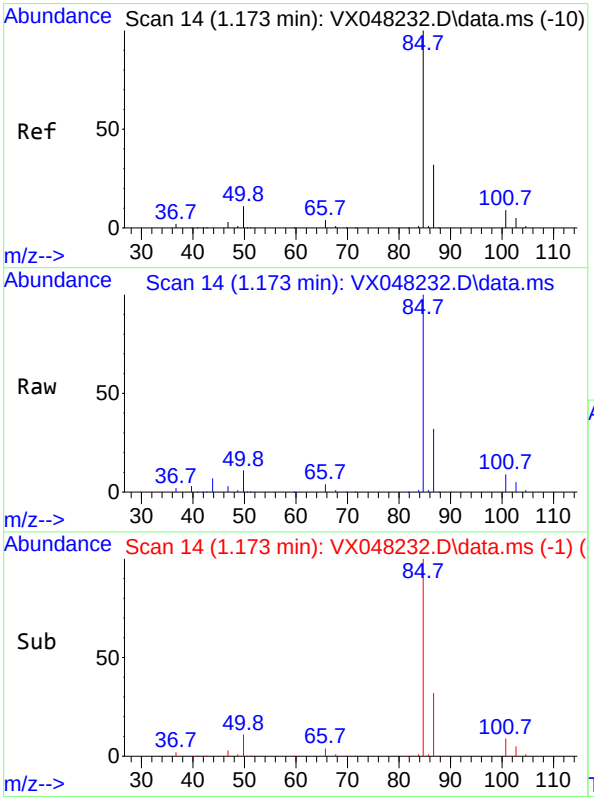
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 124491

Ion	Ratio	Lower	Upper
168	100		
99	63.3	46.4	69.6

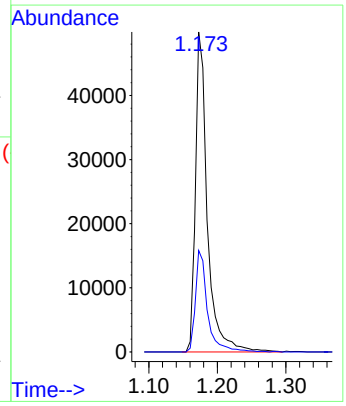


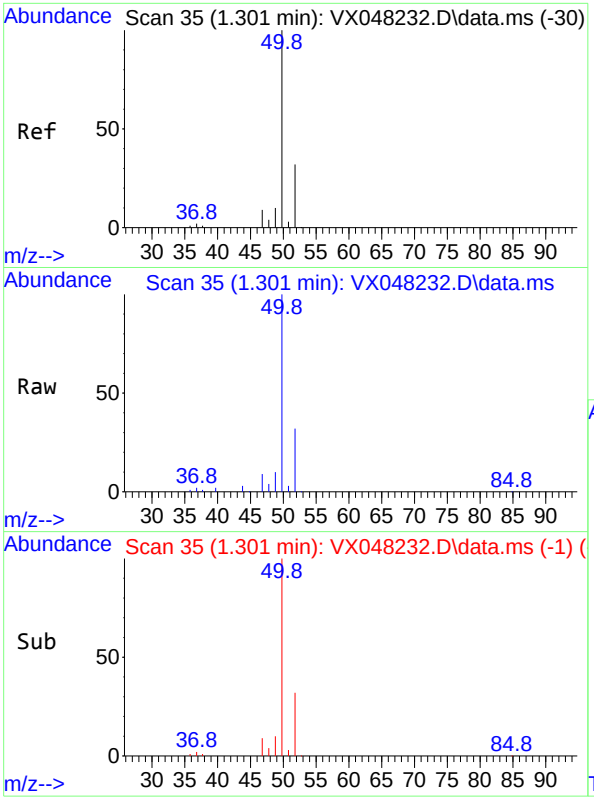


#2
Dichlorodifluoromethane
Concen: 47.017 ug/l
RT: 1.173 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 85 Resp: 60172

Ion	Ratio	Lower	Upper
85	100		
87	31.7	15.3	45.9



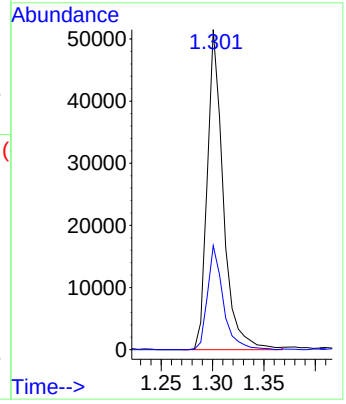


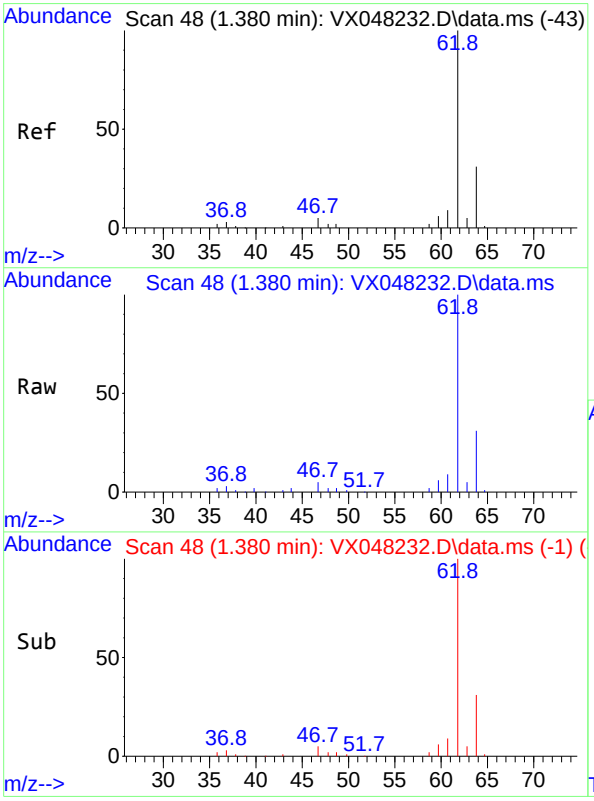
#3
Chloromethane
Concen: 46.824 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 55934

Ion	Ratio	Lower	Upper
50	100		
52	32.5	25.9	38.9

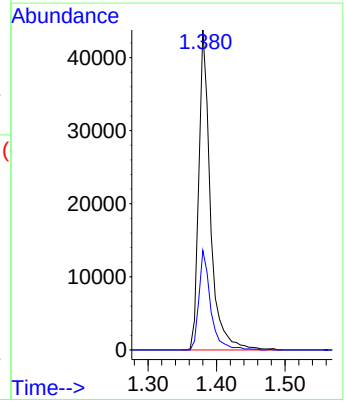


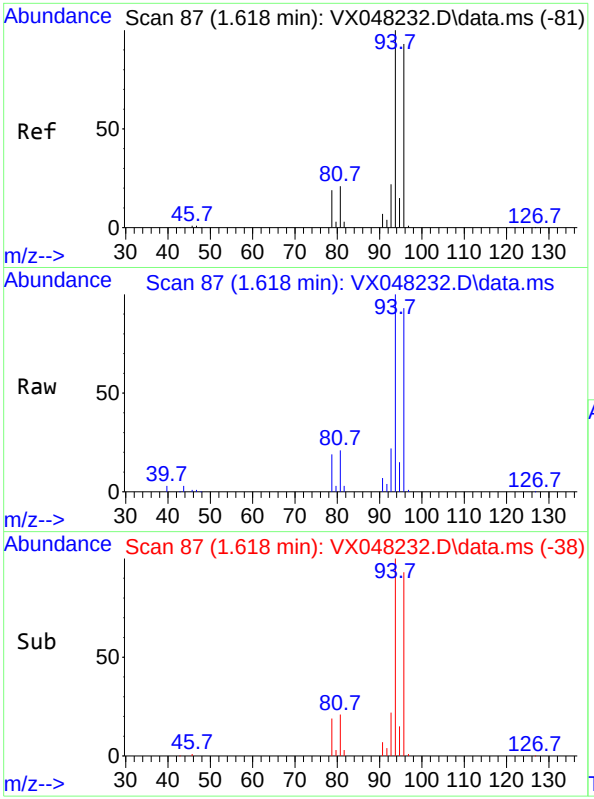


#4
Vinyl Chloride
Concen: 46.845 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 62 Resp: 51819

Ion	Ratio	Lower	Upper
62	100		
64	31.1	25.1	37.7



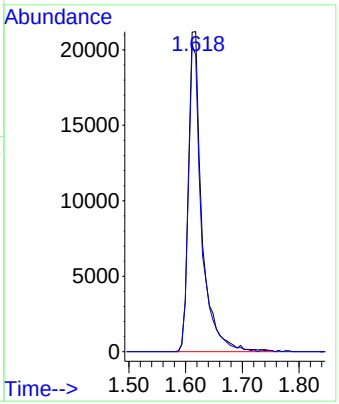


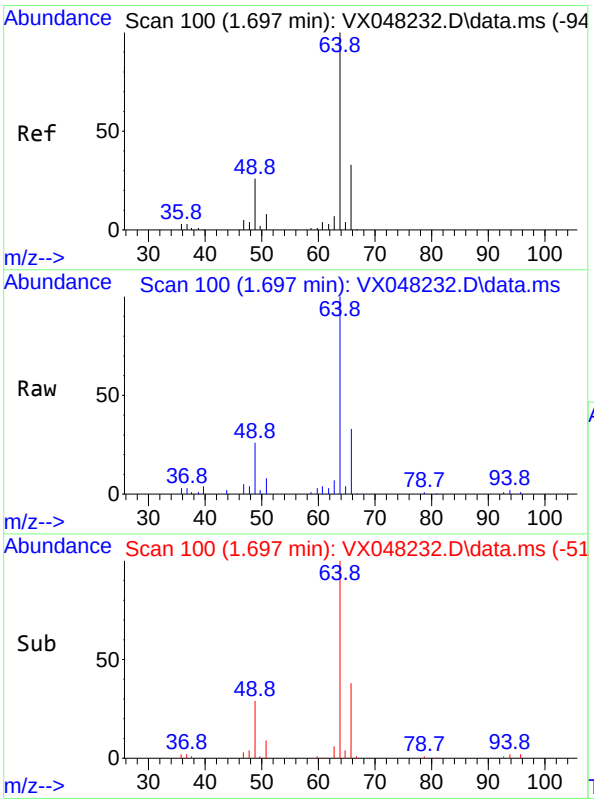
#5
Bromomethane
Concen: 46.757 ug/l
RT: 1.618 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 35101

Ion	Ratio	Lower	Upper
94	100		
96	92.7	76.0	114.0

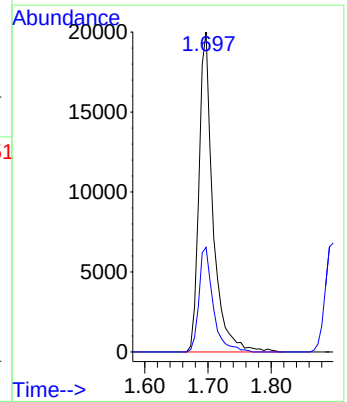


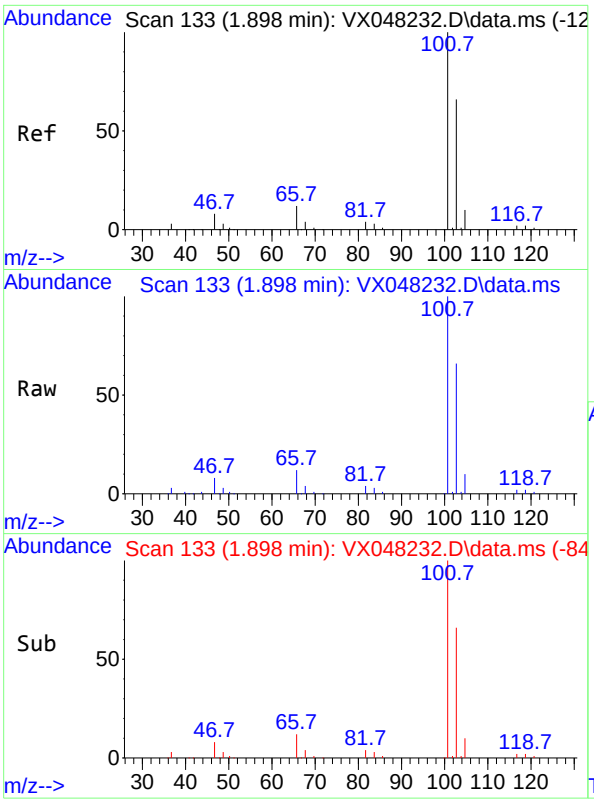


#6
Chloroethane
Concen: 47.258 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 64 Resp: 30718

Ion	Ratio	Lower	Upper
64	100		
66	32.7	23.9	35.9



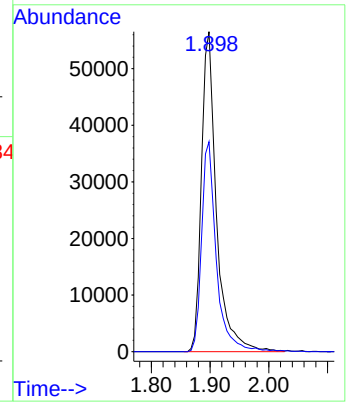


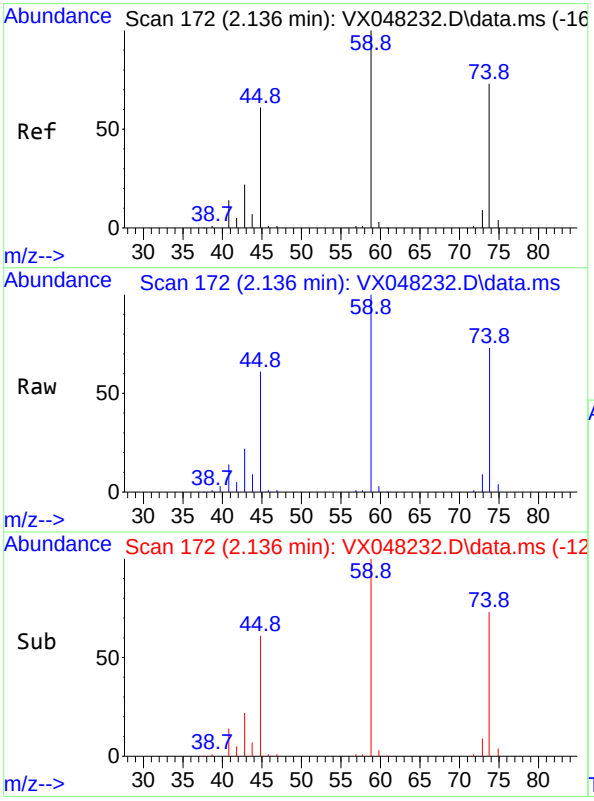
#7
Trichlorofluoromethane
Concen: 47.336 ug/l
RT: 1.898 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 100423

Ion	Ratio	Lower	Upper
101	100		
103	65.6	51.6	77.4

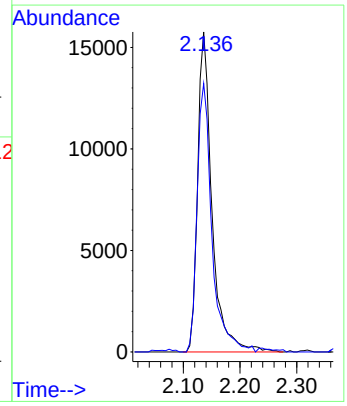


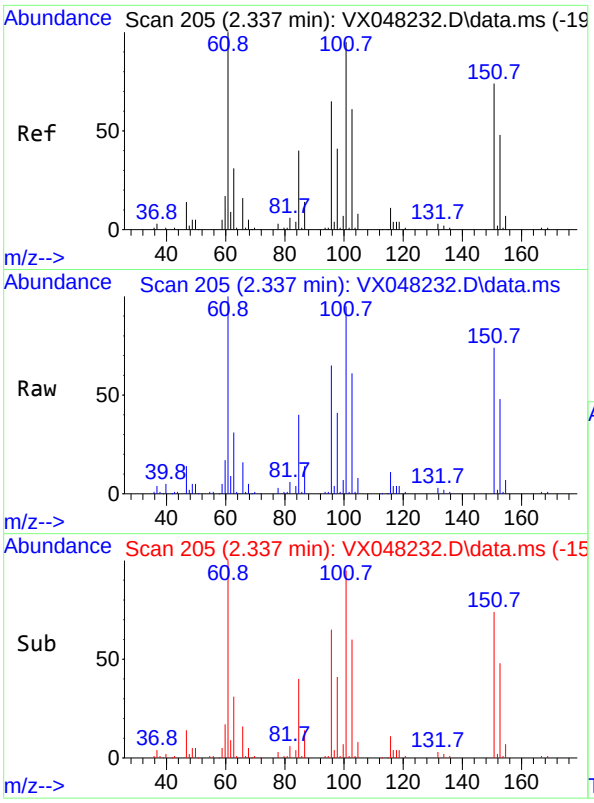


#8
Diethyl Ether
Concen: 46.442 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 74 Resp: 27723

Ion	Ratio	Lower	Upper
74	100		
45	86.5	50.0	149.8



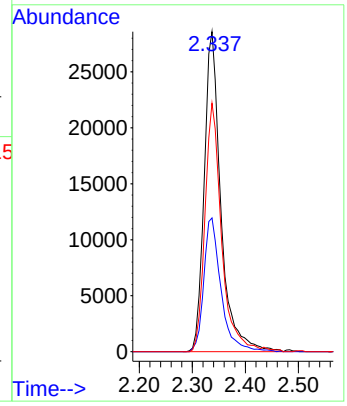


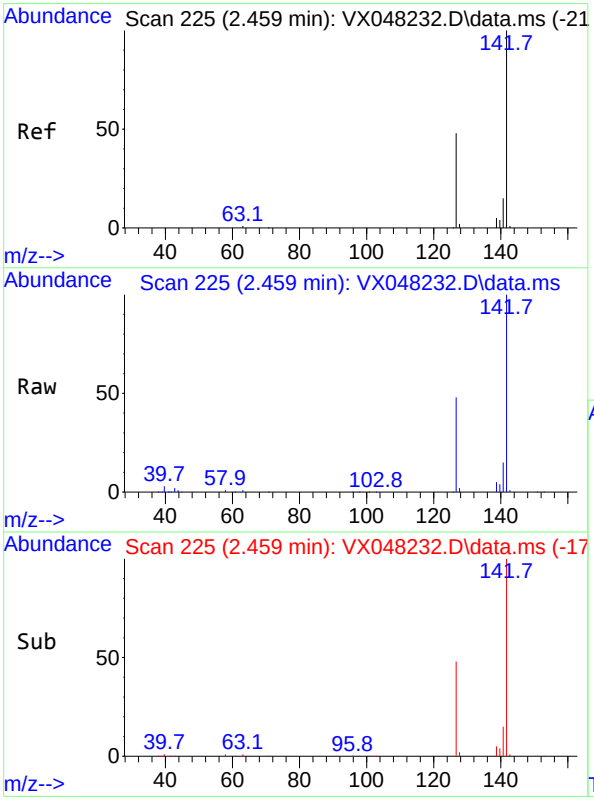
#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.442 ug/l
RT: 2.337 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 62391

Ion	Ratio	Lower	Upper
101	100		
85	43.2	35.6	53.4
151	77.9	58.0	87.0

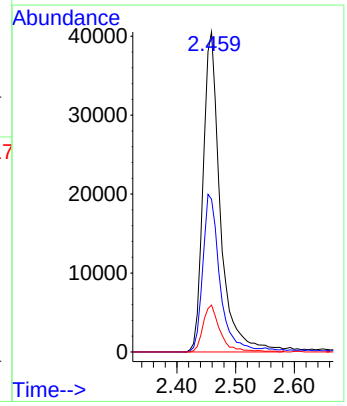


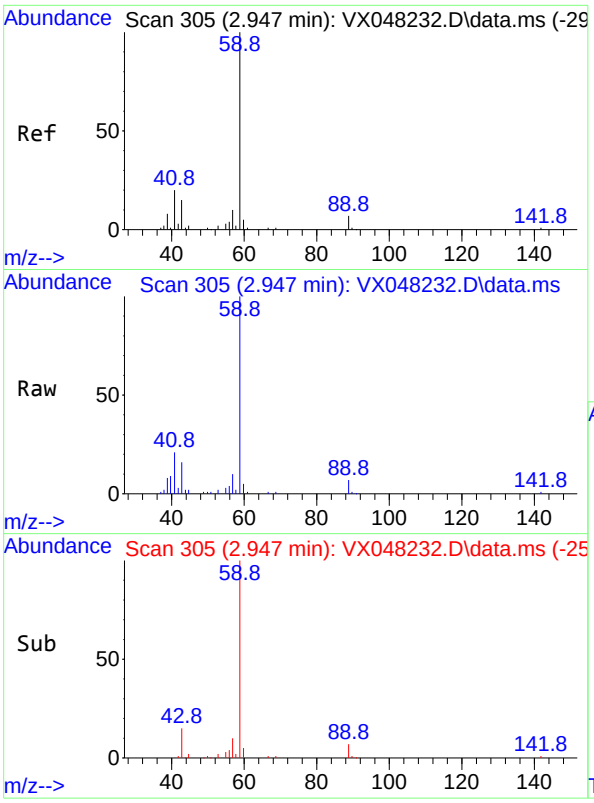


#10
Methyl Iodide
Concen: 48.881 ug/l
RT: 2.459 min Scan# 225
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:142 Resp: 82552

Ion	Ratio	Lower	Upper
142	100		
127	48.9	38.5	57.7
141	14.7	11.6	17.4



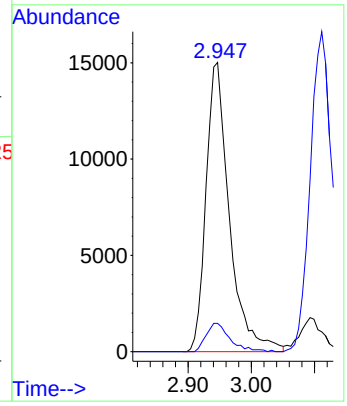


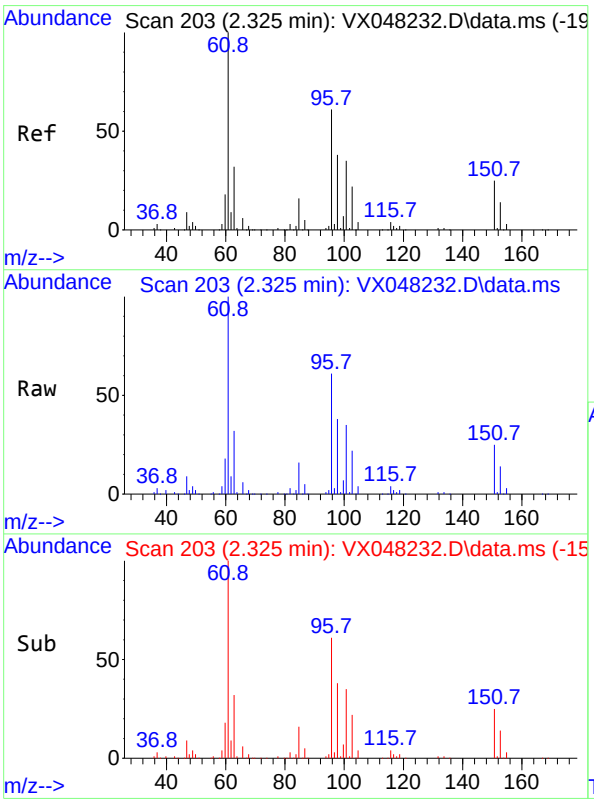
#11
Tert butyl alcohol
Concen: 222.353 ug/l
RT: 2.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 59 Resp: 38534

Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.2	12.4

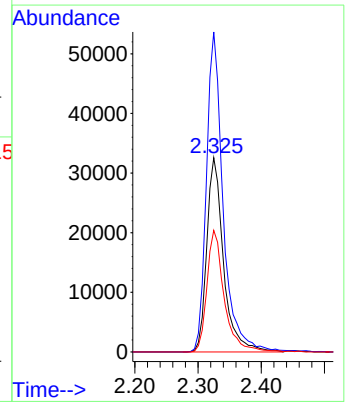


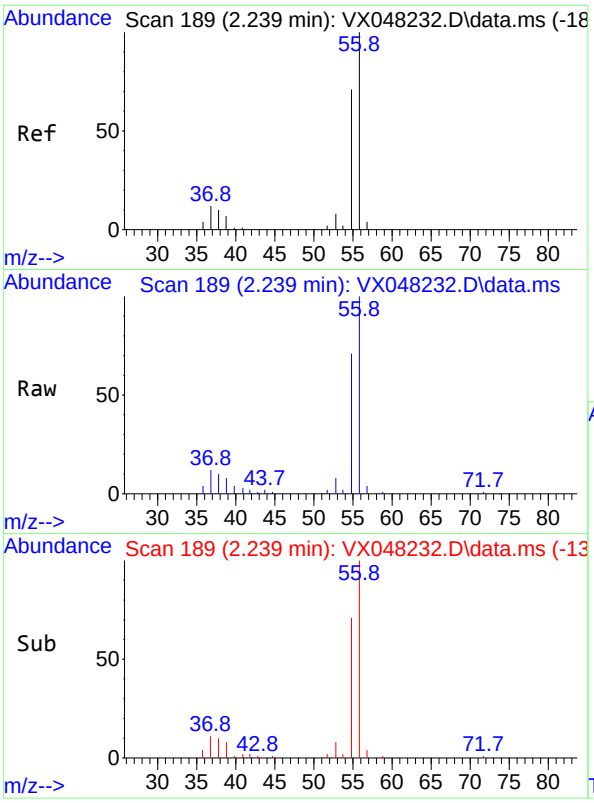


#12
1,1-Dichloroethene
Concen: 46.160 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 96 Resp: 60330

Ion	Ratio	Lower	Upper
96	100		
61	164.7	139.0	208.6
98	62.6	52.4	78.6



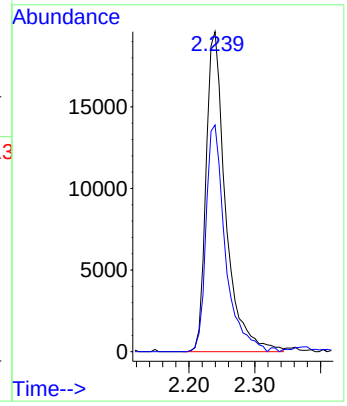


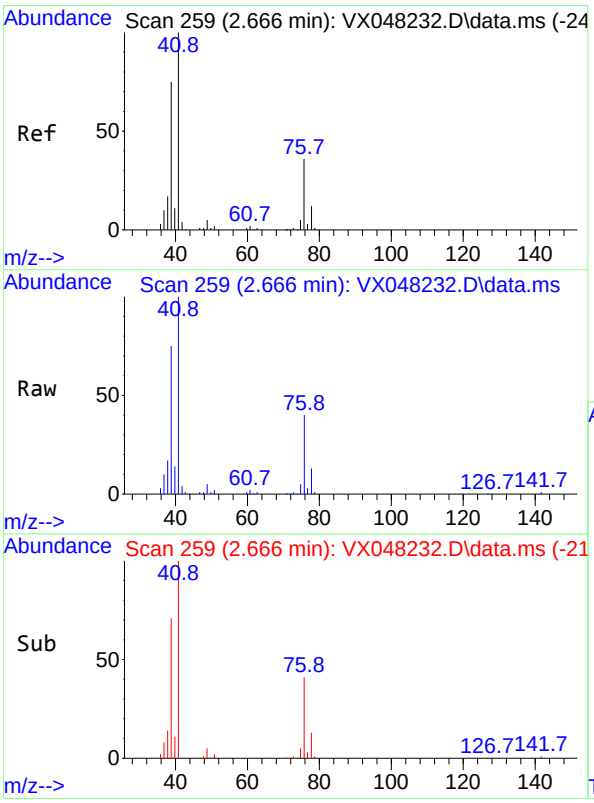
#13
Acrolein
Concen: 229.343 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 40536

Ion	Ratio	Lower	Upper
56	100		
55	69.8	56.1	84.1

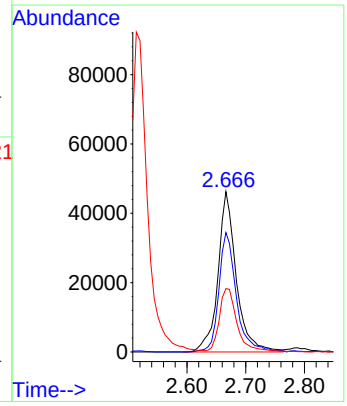


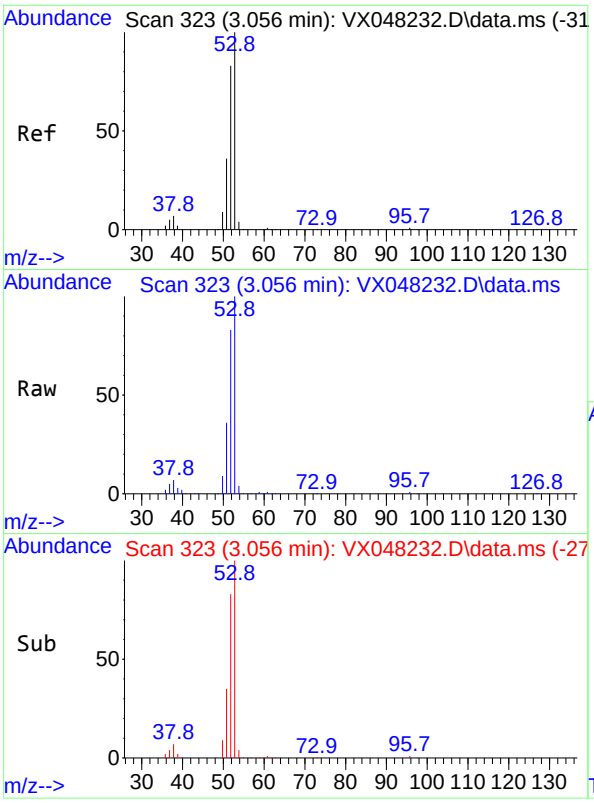


#14
Allyl chloride
Concen: 46.192 ug/l
RT: 2.666 min Scan# 259
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 41 Resp: 100234

Ion	Ratio	Lower	Upper
41	100		
39	71.0	56.0	84.0
76	38.6	27.5	41.3



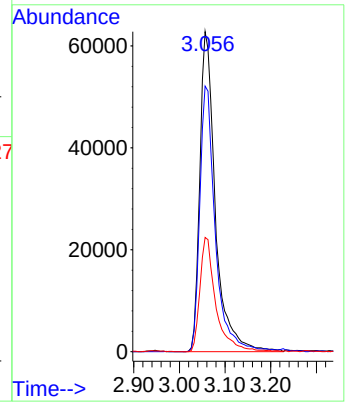


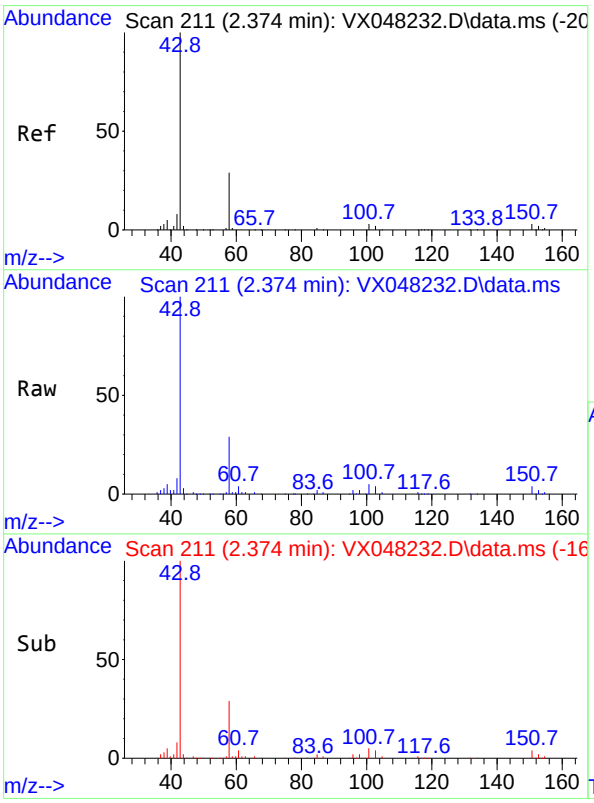
#15
Acrylonitrile
Concen: 238.450 ug/l
RT: 3.056 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 53 Resp: 149009

Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.1	99.1
51	36.6	29.0	43.4

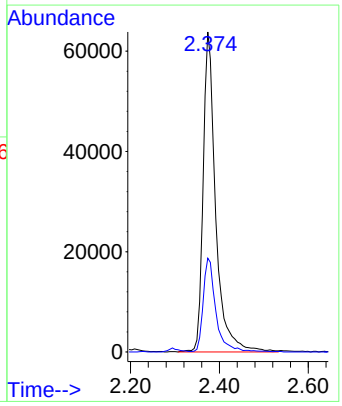


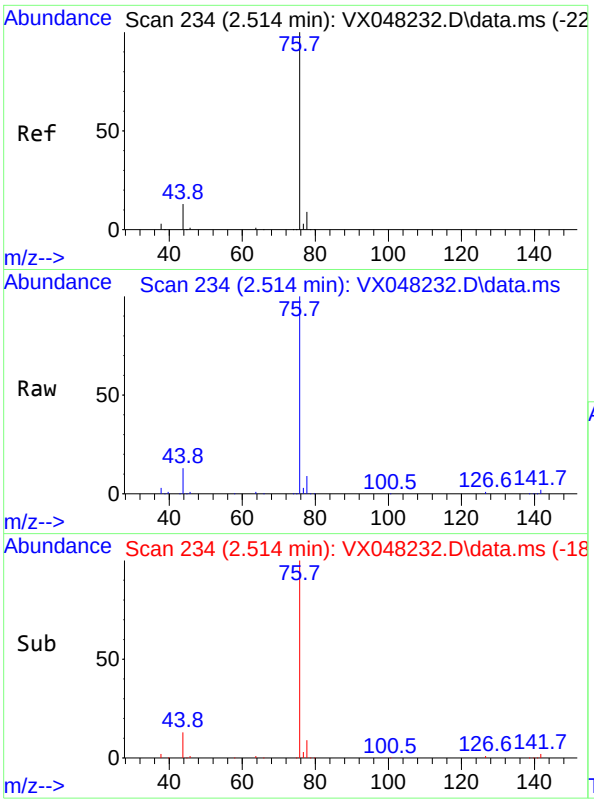


#16
Acetone
Concen: 210.429 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 43 Resp: 126003

Ion	Ratio	Lower	Upper
43	100		
58	29.2	23.4	35.2



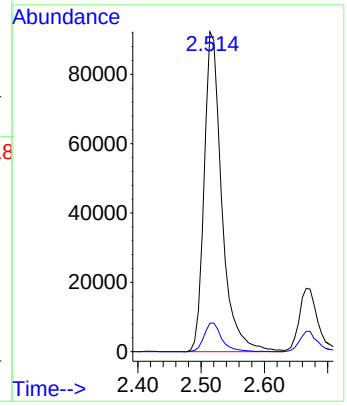


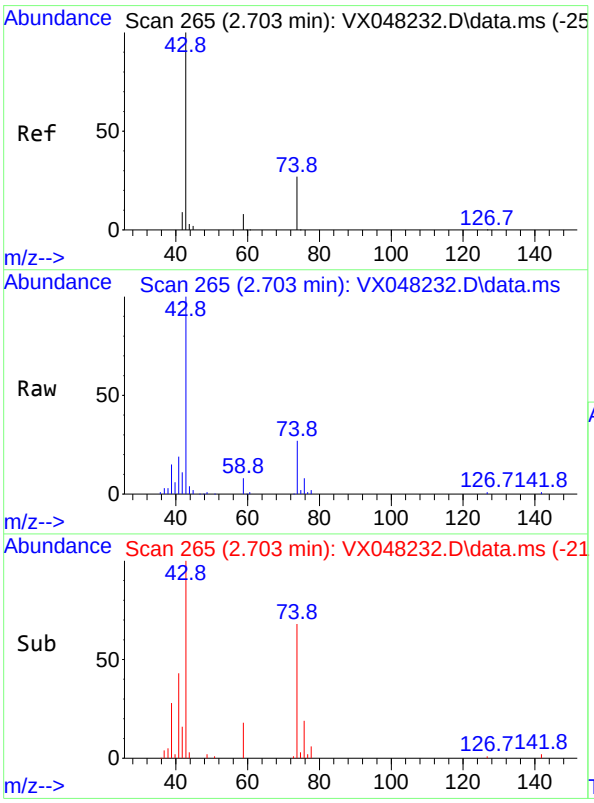
#17
Carbon Disulfide
Concen: 43.575 ug/l
RT: 2.514 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 179492

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.1	10.7

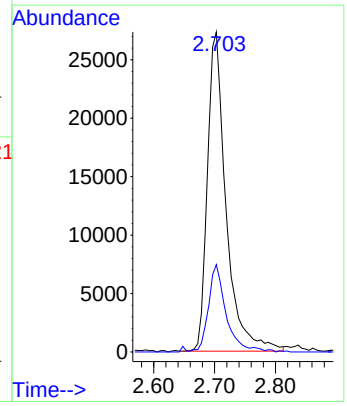


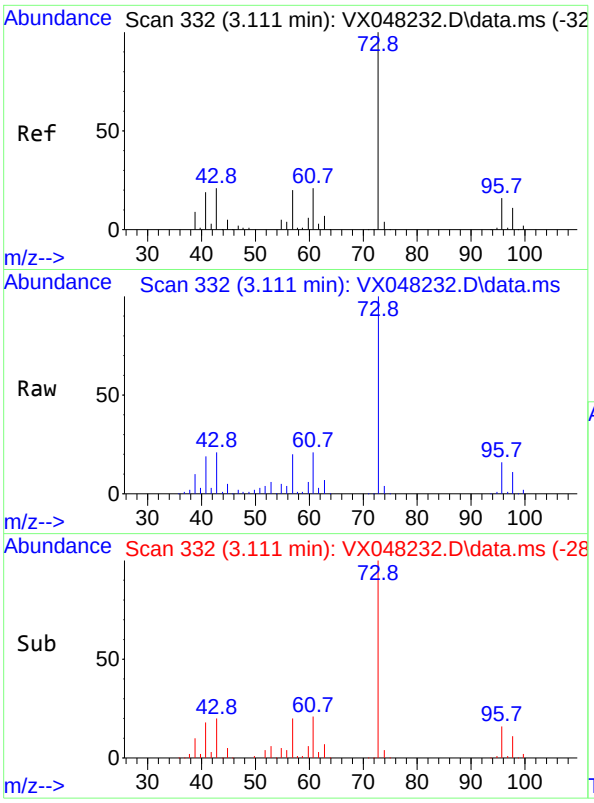


#18
Methyl Acetate
Concen: 46.437 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 43 Resp: 58071

Ion	Ratio	Lower	Upper
43	100		
74	26.0	17.5	26.3



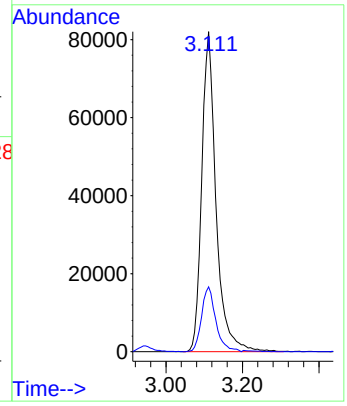


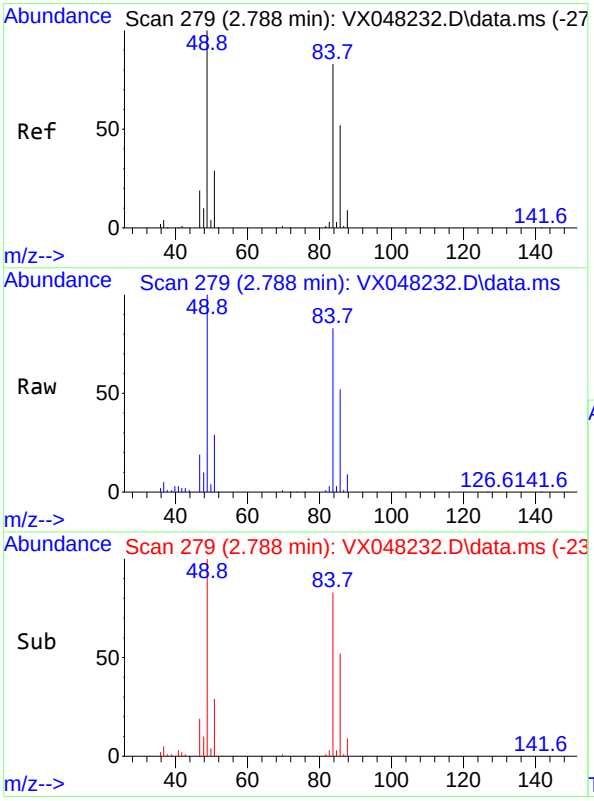
#19
Methyl tert-butyl Ether
Concen: 47.567 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 212092

Ion	Ratio	Lower	Upper
73	100		
57	20.3	17.7	26.5

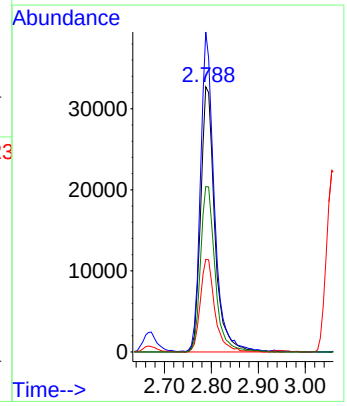


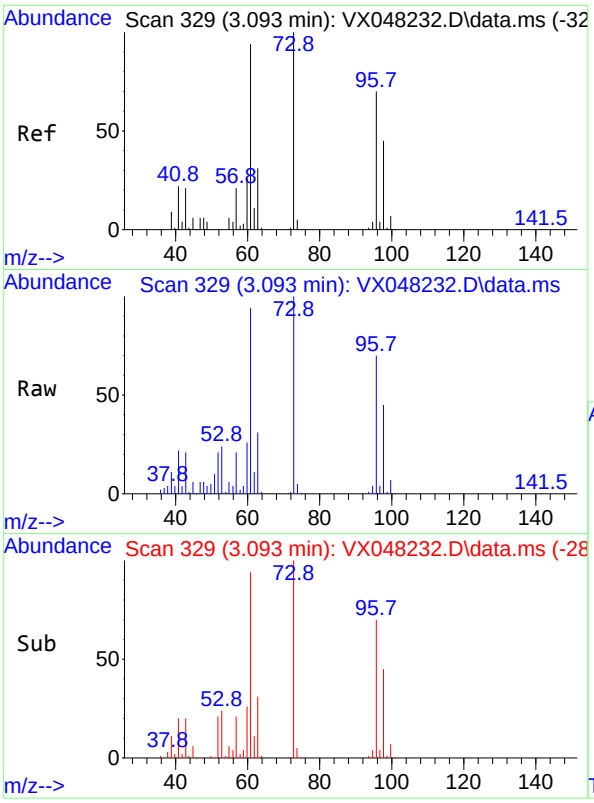


#20
Methylene Chloride
Concen: 47.061 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 84 Resp: 68663

Ion	Ratio	Lower	Upper
84	100		
49	120.4	104.1	156.1
51	35.0	31.3	46.9
86	62.4	51.3	76.9



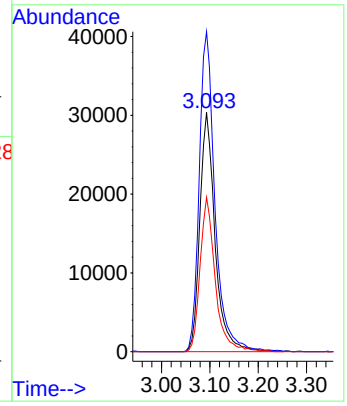


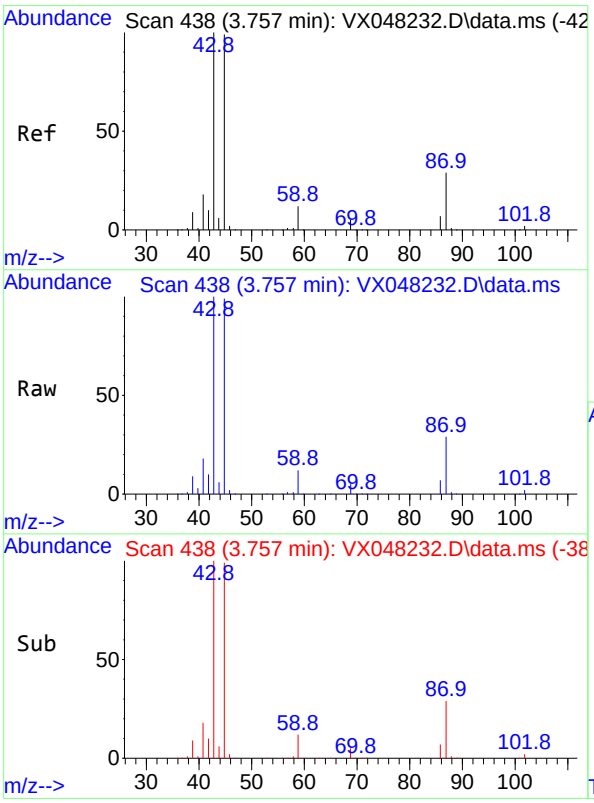
#21
trans-1,2-Dichloroethene
Concen: 46.395 ug/l
RT: 3.093 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 66608

Ion	Ratio	Lower	Upper
96	100		
61	133.8	111.9	167.9
98	64.5	51.2	76.8

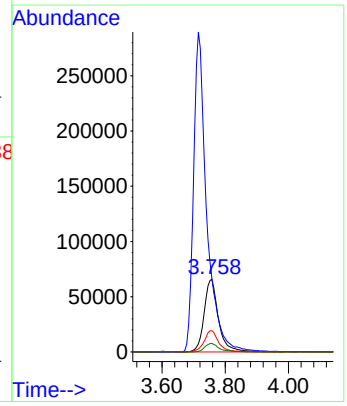


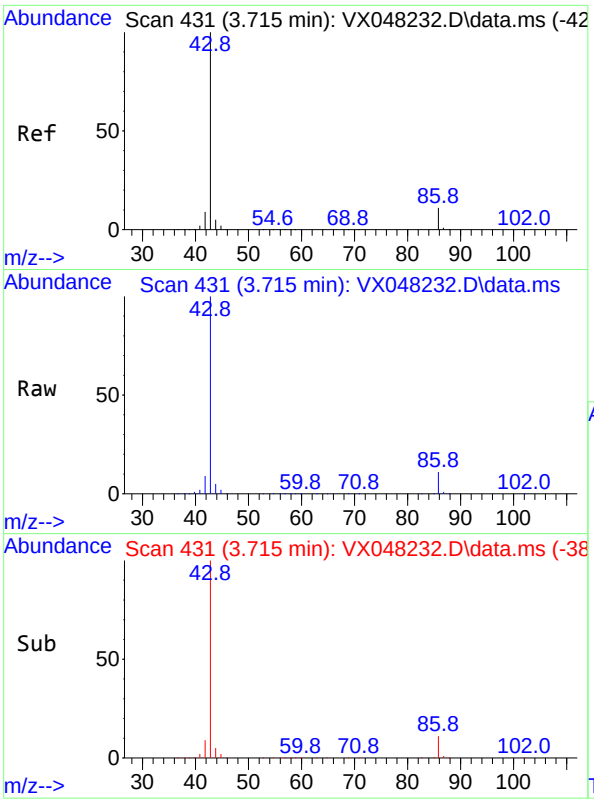


#22
Diisopropyl ether
Concen: 47.805 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 45 Resp: 206901

Ion	Ratio	Lower	Upper
45	100		
43	101.1	89.8	134.8
87	29.3	20.6	31.0
59	11.9	9.1	13.7



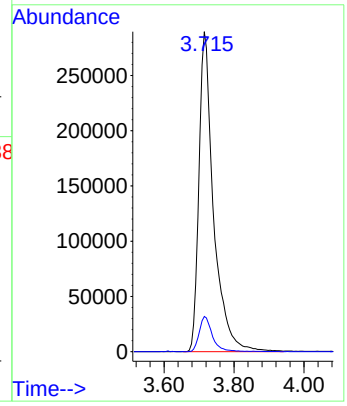


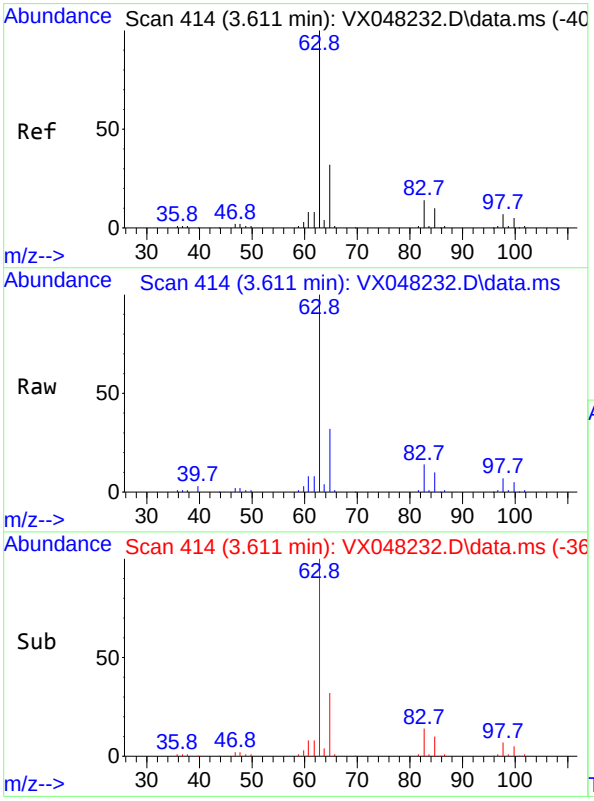
#23
Vinyl Acetate
Concen: 242.786 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 839370

Ion	Ratio	Lower	Upper
43	100		
86	11.0	7.9	11.9

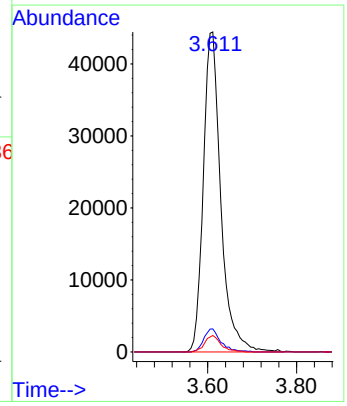


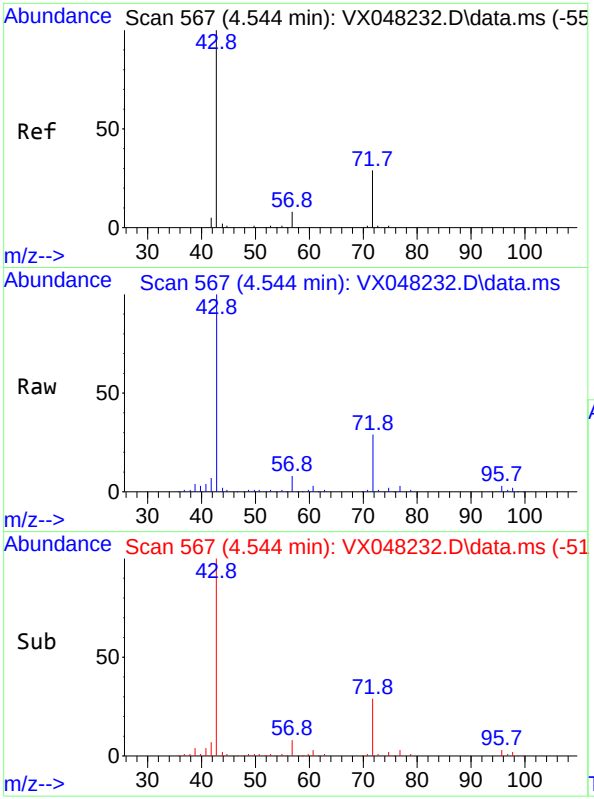


#24
1,1-Dichloroethane
Concen: 46.487 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 63 Resp: 121657

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.5	10.6
100	5.1	2.1	6.3



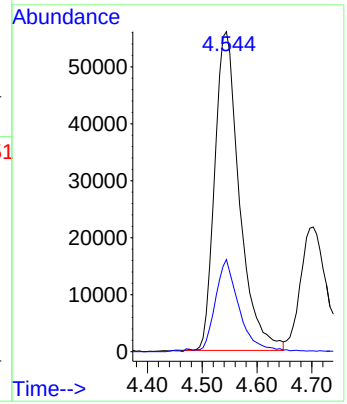


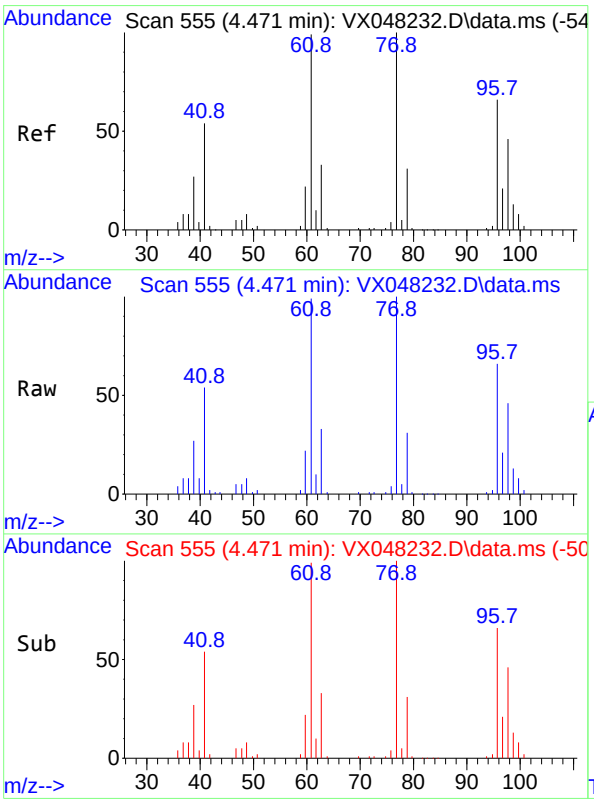
#25
2-Butanone
Concen: 230.996 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 175075

Ion	Ratio	Lower	Upper
43	100		
72	28.6	19.9	29.9

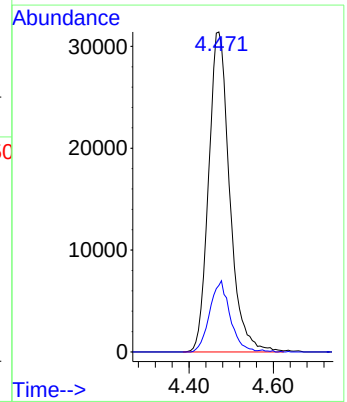


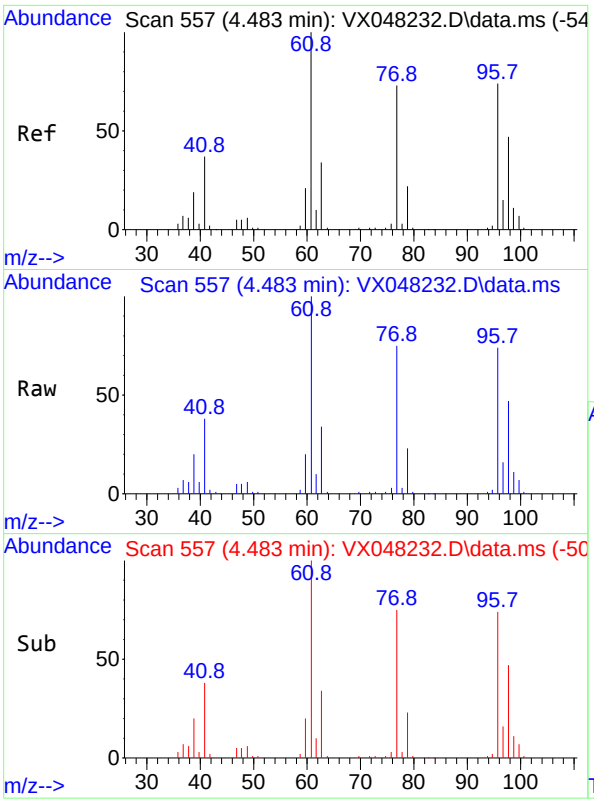


#26
2,2-Dichloropropane
Concen: 46.171 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 77 Resp: 109062

Ion	Ratio	Lower	Upper
77	100		
97	21.5	11.1	33.3



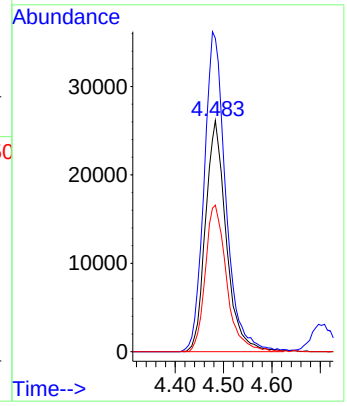


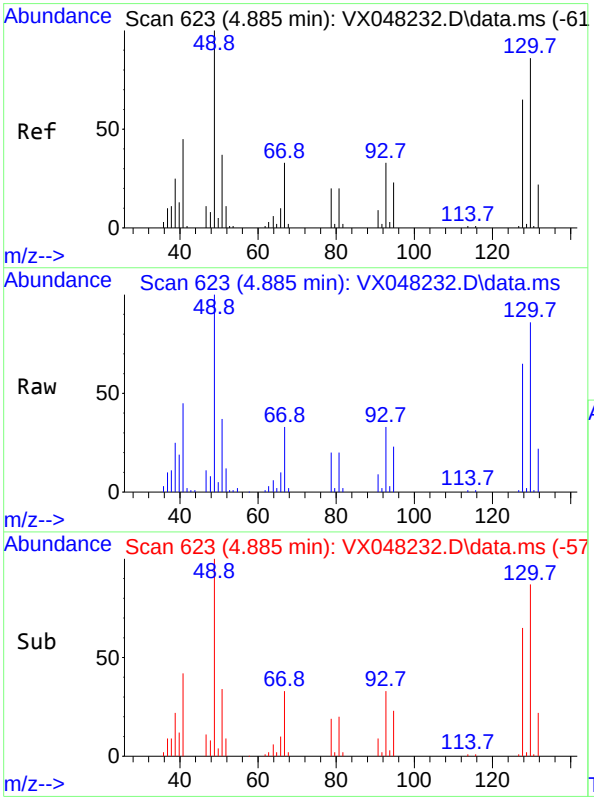
#27
cis-1,2-Dichloroethene
Concen: 46.500 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 77911

Ion	Ratio	Lower	Upper
96	100		
61	144.4	0.0	294.2
98	64.9	0.0	128.4

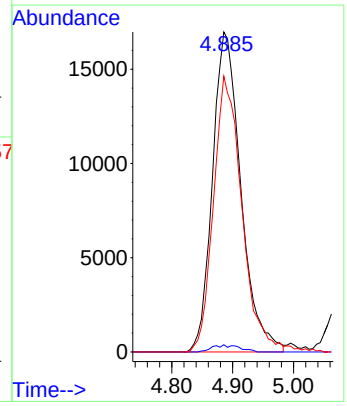


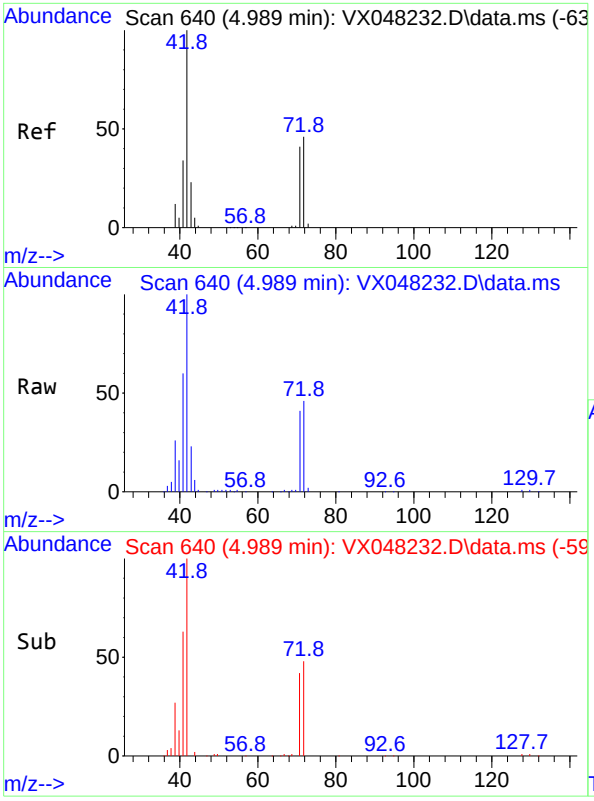


#28
Bromochloromethane
Concen: 50.611 ug/l
RT: 4.885 min Scan# 623
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 49 Resp: 54919

Ion	Ratio	Lower	Upper
49	100		
129	0.8	0.0	4.4
130	86.9	59.3	88.9



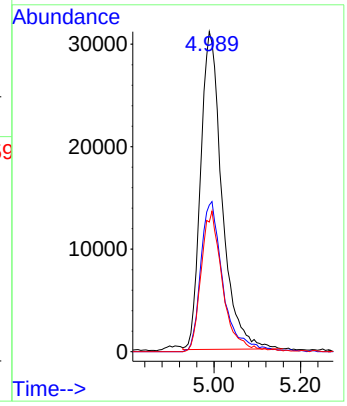


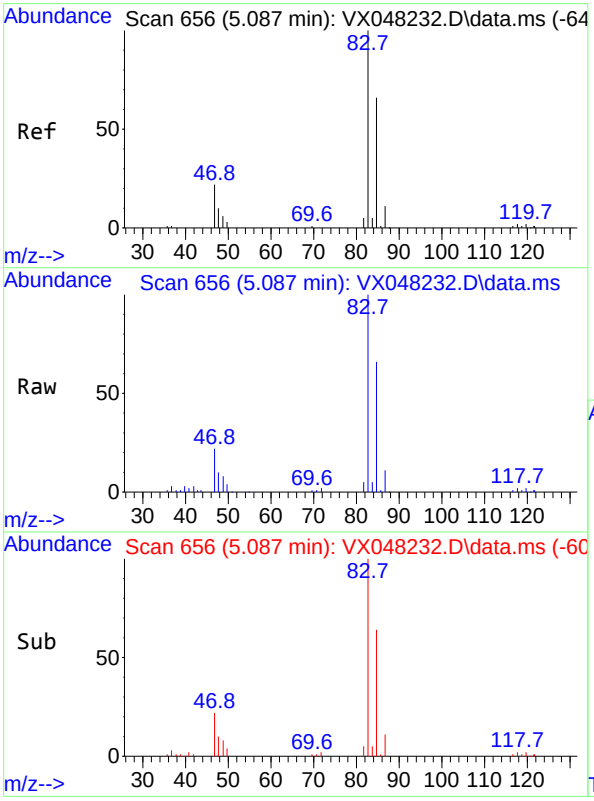
#29
Tetrahydrofuran
Concen: 234.362 ug/l
RT: 4.989 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 42 Resp: 106381

Ion	Ratio	Lower	Upper
42	100		
72	49.2	35.3	52.9
71	44.3	32.2	48.4

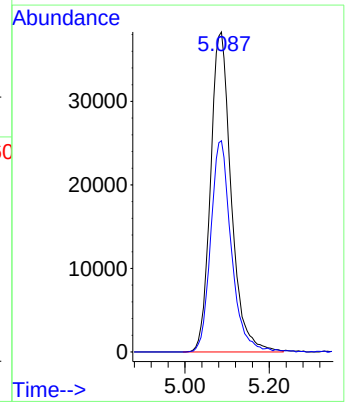


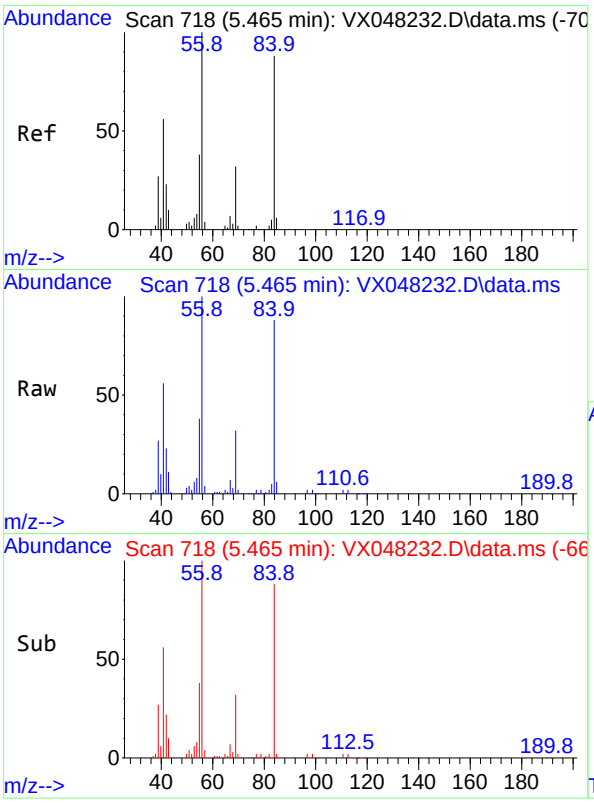


#30
Chloroform
Concen: 46.594 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 83 Resp: 130274

Ion	Ratio	Lower	Upper
83	100		
85	66.0	50.1	75.1



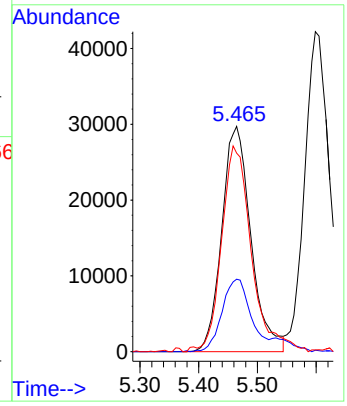


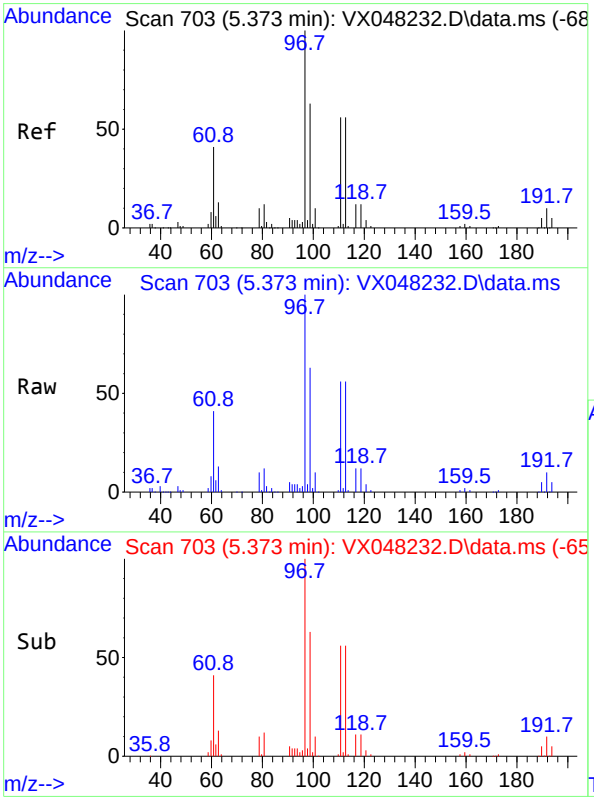
#31
Cyclohexane
Concen: 47.194 ug/l
RT: 5.465 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 102251

Ion	Ratio	Lower	Upper
56	100		
69	32.2	23.0	34.6
84	87.9	64.6	97.0

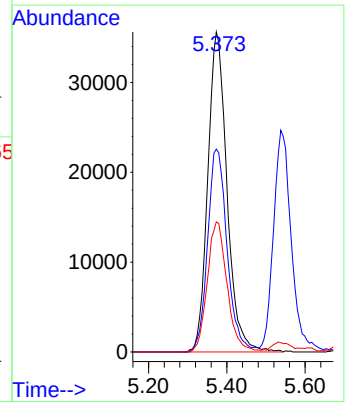


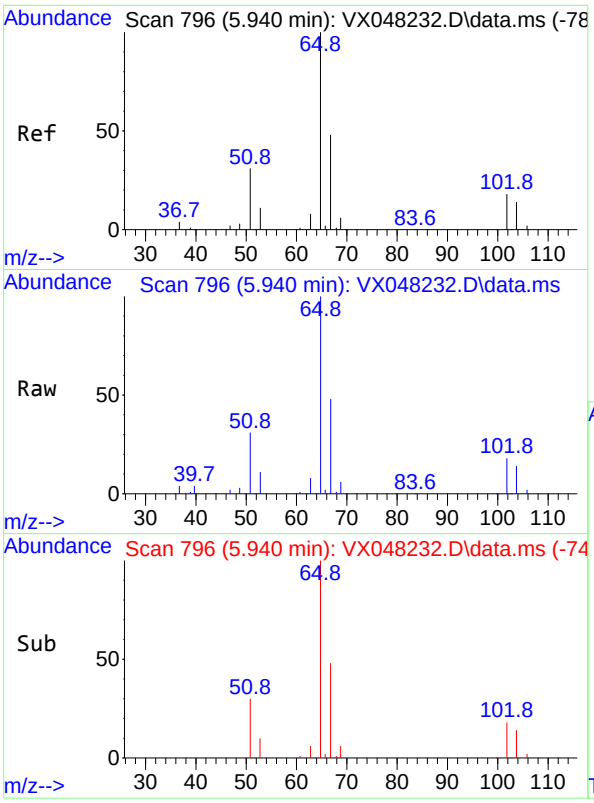


#32
1,1,1-Trichloroethane
Concen: 46.992 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 97 Resp: 121090

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.7	77.5
61	41.8	34.8	52.2



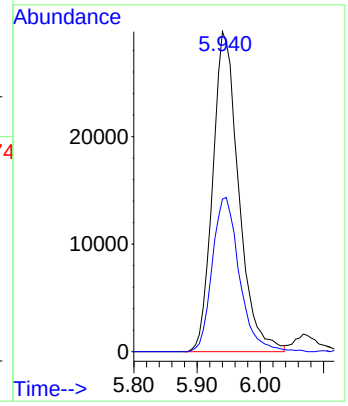


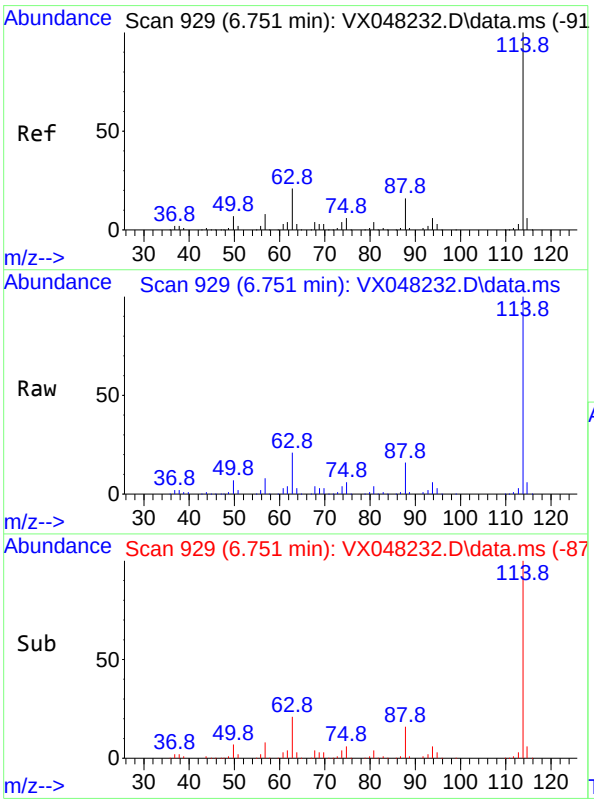
#33
1,2-Dichloroethane-d4
Concen: 48.670 ug/l
RT: 5.940 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 65 Resp: 84951

Ion	Ratio	Lower	Upper
65	100		
67	50.4	0.0	105.0

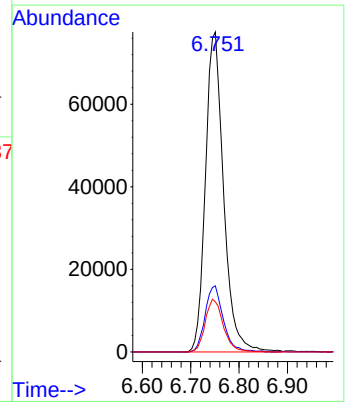


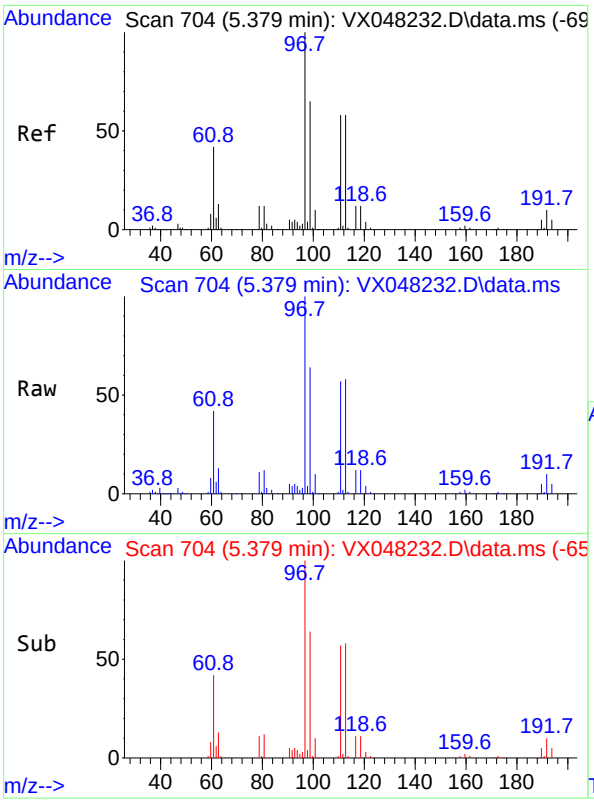


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:114 Resp: 201906

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	43.2
88	15.7	0.0	33.6



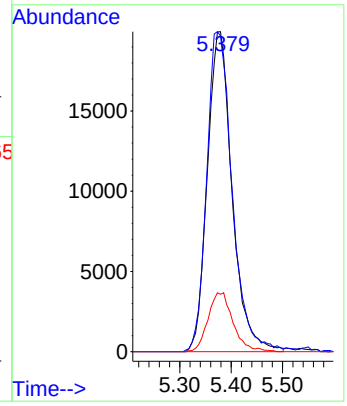


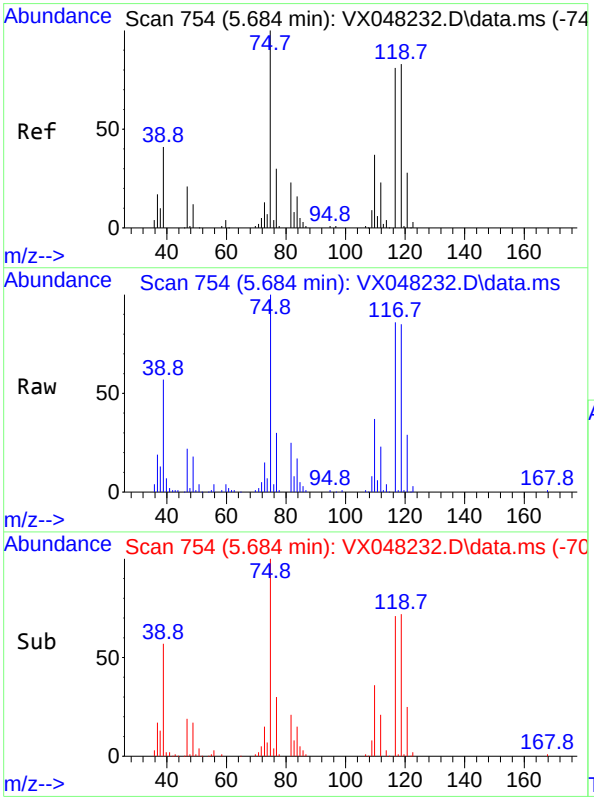
#35
Dibromofluoromethane
Concen: 48.312 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:113 Resp: 66593

Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.2	123.4
192	18.7	15.1	22.7

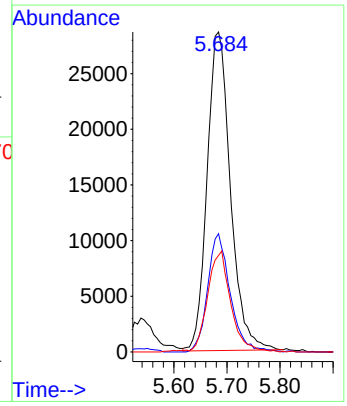


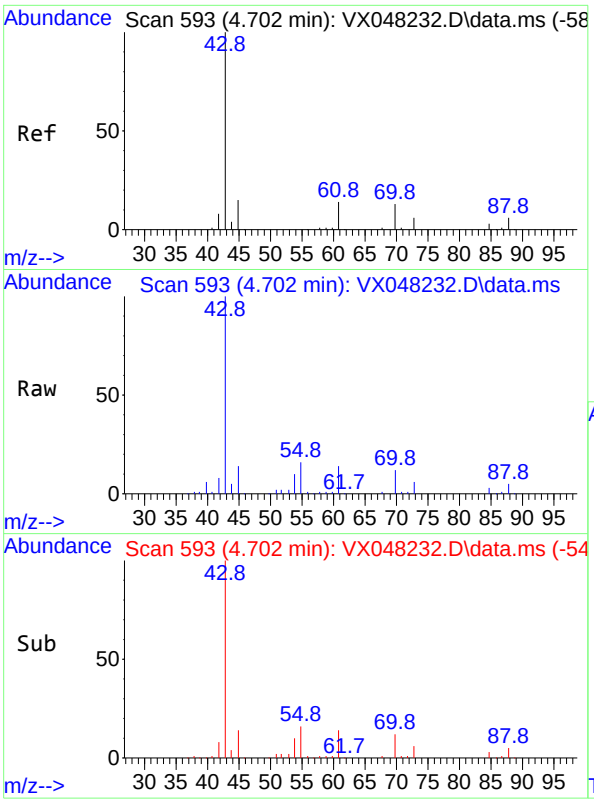


#36
1,1-Dichloropropene
Concen: 44.659 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 75 Resp: 87493

Ion	Ratio	Lower	Upper
75	100		
110	35.9	17.7	53.1
77	31.7	24.3	36.5



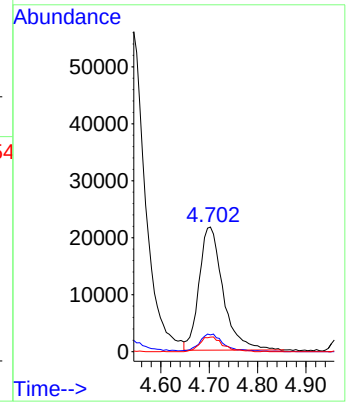


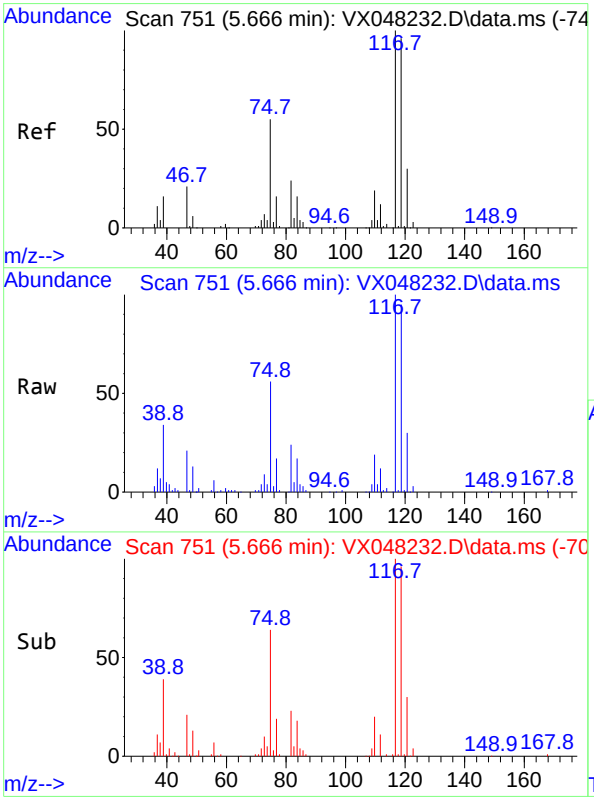
#37
Ethyl Acetate
Concen: 45.730 ug/l
RT: 4.702 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 74261

Ion	Ratio	Lower	Upper
43	100		
61	14.0	10.6	15.8
70	11.6	7.8	11.6

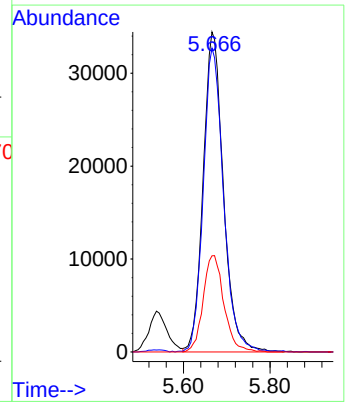


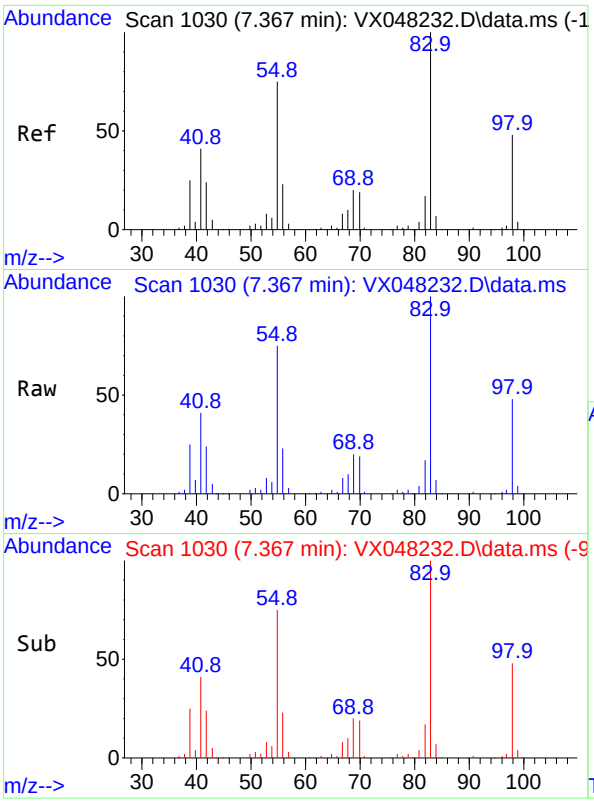


#38
Carbon Tetrachloride
Concen: 46.216 ug/l
RT: 5.666 min Scan# 751
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:117 Resp: 111708

Ion	Ratio	Lower	Upper
117	100		
119	94.8	77.2	115.8
121	30.1	24.8	37.2



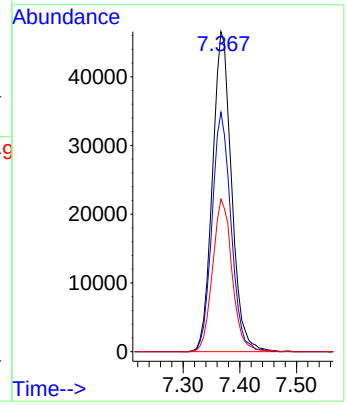


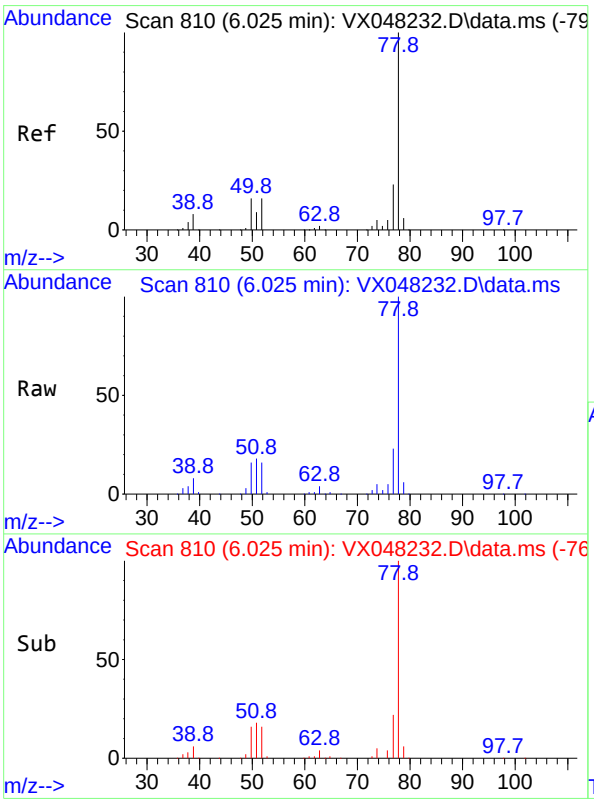
#39
Methylcyclohexane
Concen: 47.143 ug/l
RT: 7.367 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 109077

Ion	Ratio	Lower	Upper
83	100		
55	74.8	66.2	99.2
98	47.6	38.9	58.3

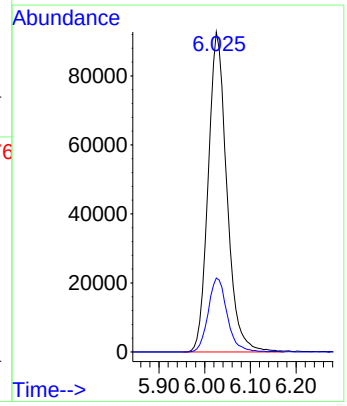


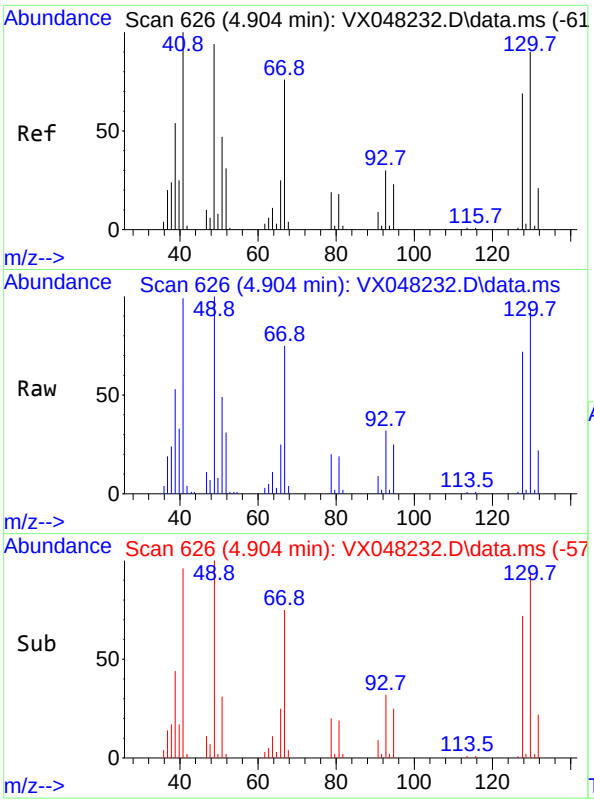


#40
Benzene
Concen: 46.192 ug/l
RT: 6.025 min Scan# 810
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 78 Resp: 262745

Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.3	28.9



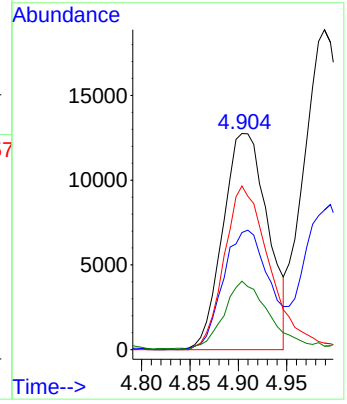


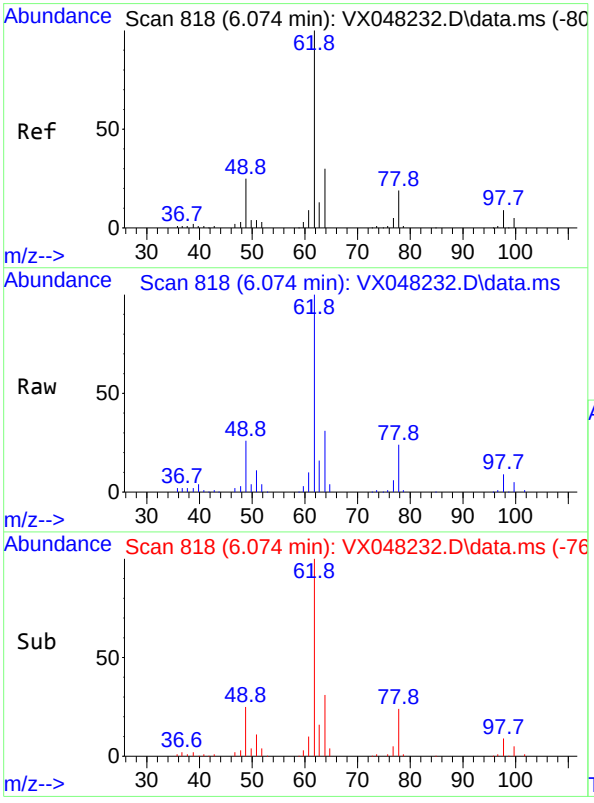
#41
Methacrylonitrile
Concen: 48.421 ug/l
RT: 4.904 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 41293

Ion	Ratio	Lower	Upper
41	100		
39	56.1	44.0	66.0
67	78.6	58.7	88.1
52	32.8	25.9	38.9

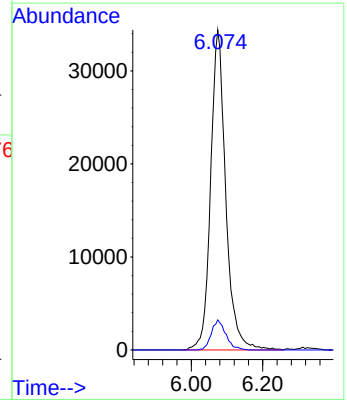


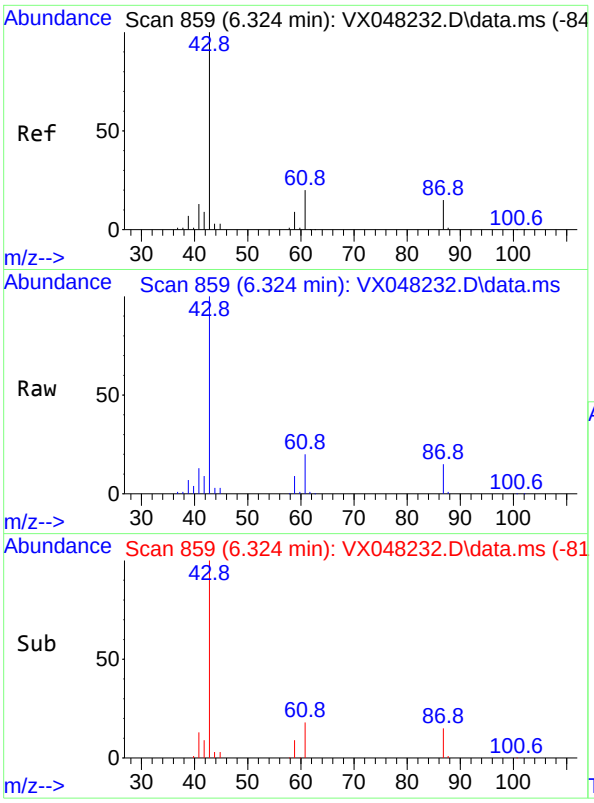


#42
1,2-Dichloroethane
Concen: 48.090 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 62 Resp: 100937

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	17.2



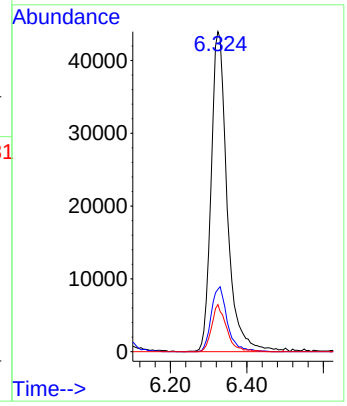


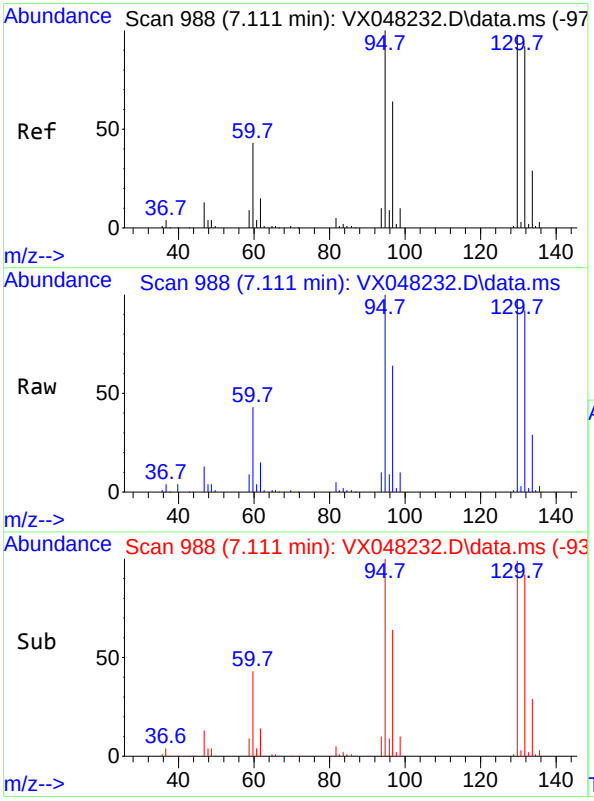
#43
Isopropyl Acetate
Concen: 48.095 ug/l
RT: 6.324 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 128290

Ion	Ratio	Lower	Upper
43	100		
61	20.3	14.9	22.3
87	13.7	9.4	14.2

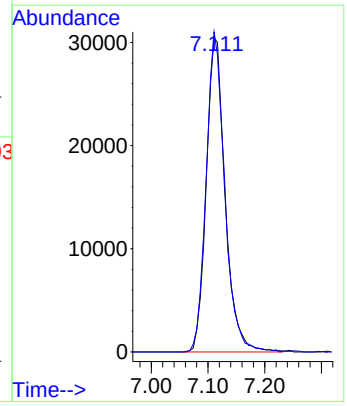


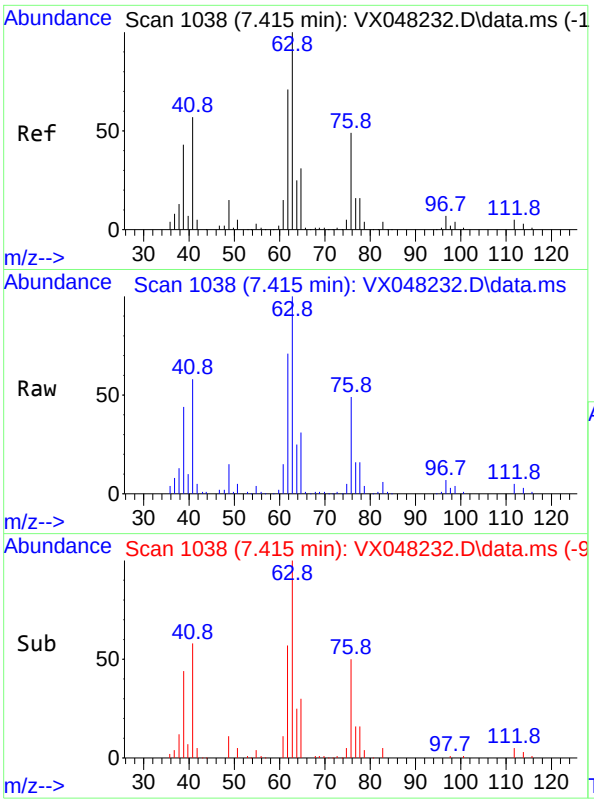


#44
Trichloroethene
Concen: 46.815 ug/l
RT: 7.111 min Scan# 988
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:130 Resp: 70313

Ion	Ratio	Lower	Upper
130	100		
95	101.9	0.0	200.6



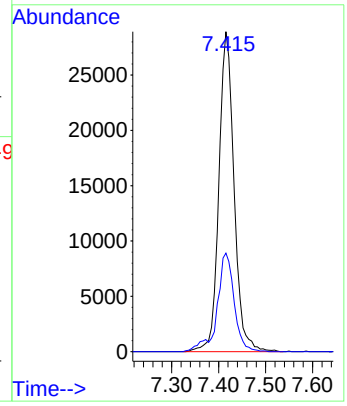


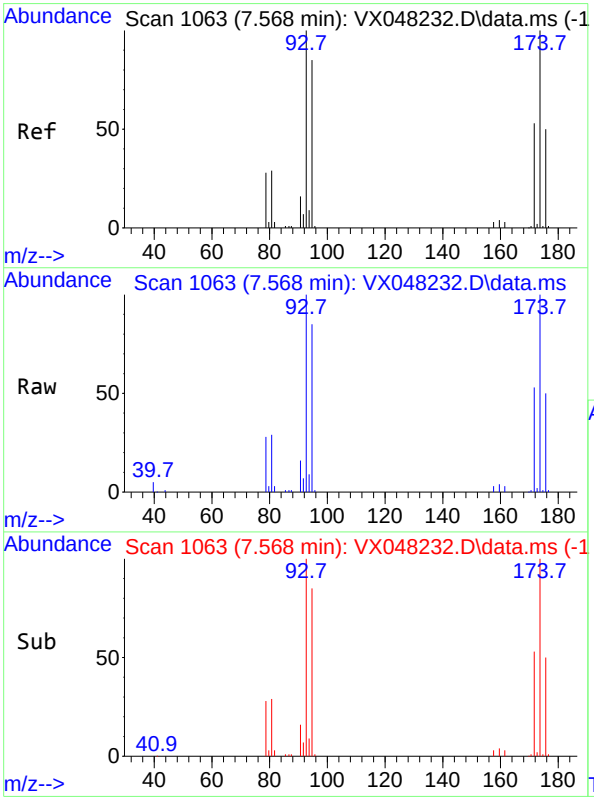
#45
1,2-Dichloropropane
Concen: 47.986 ug/l
RT: 7.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 63 Resp: 64895

Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.1	36.1

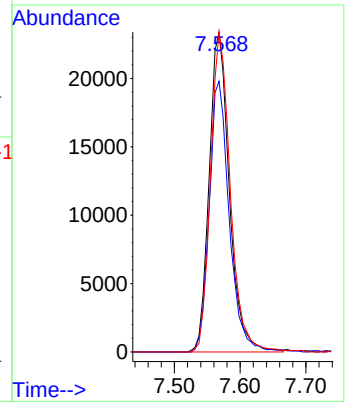


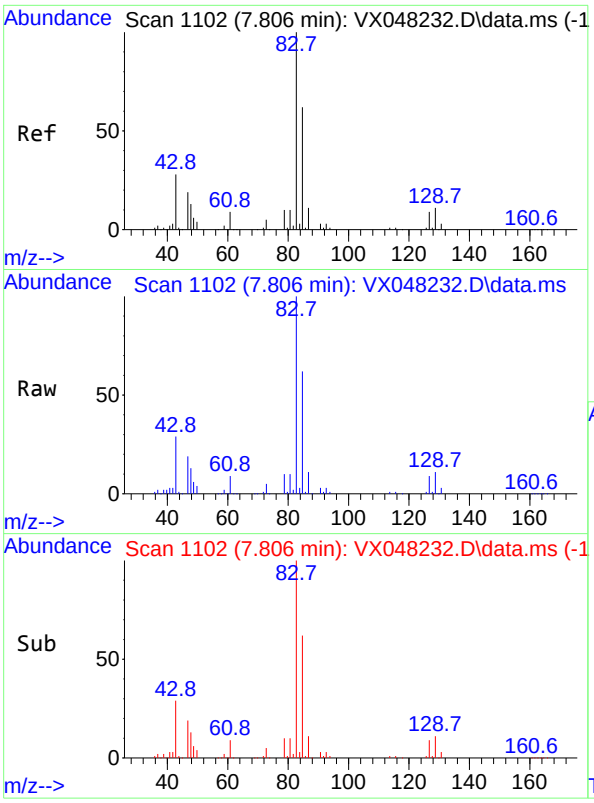


#46
Dibromomethane
Concen: 47.337 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 93 Resp: 49874

Ion	Ratio	Lower	Upper
93	100		
95	84.1	65.9	98.9
174	98.7	71.7	107.5



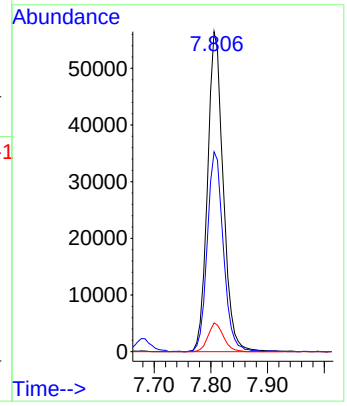


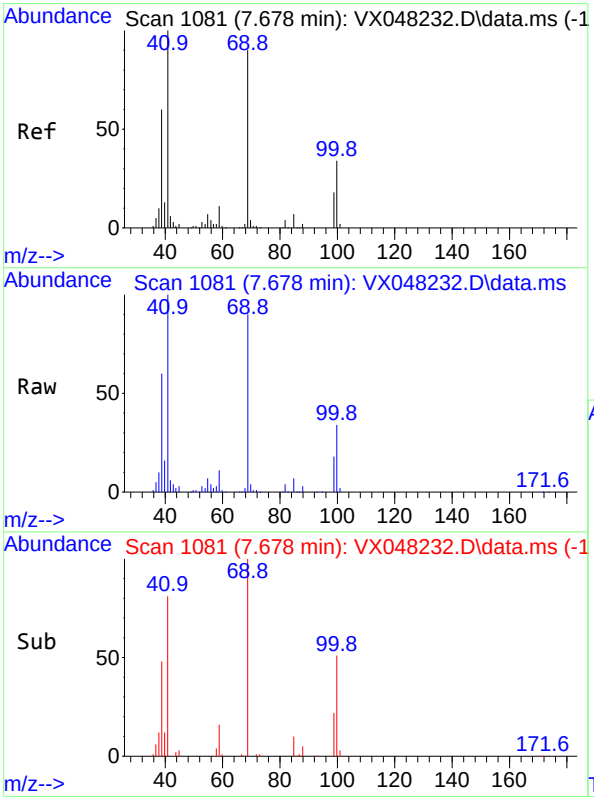
#47
Bromodichloromethane
Concen: 47.770 ug/l
RT: 7.806 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 108671

Ion	Ratio	Lower	Upper
83	100		
85	62.4	52.2	78.4
127	9.0	7.3	10.9

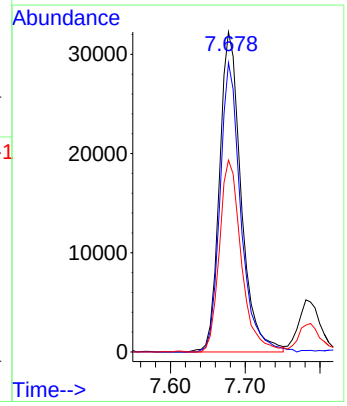


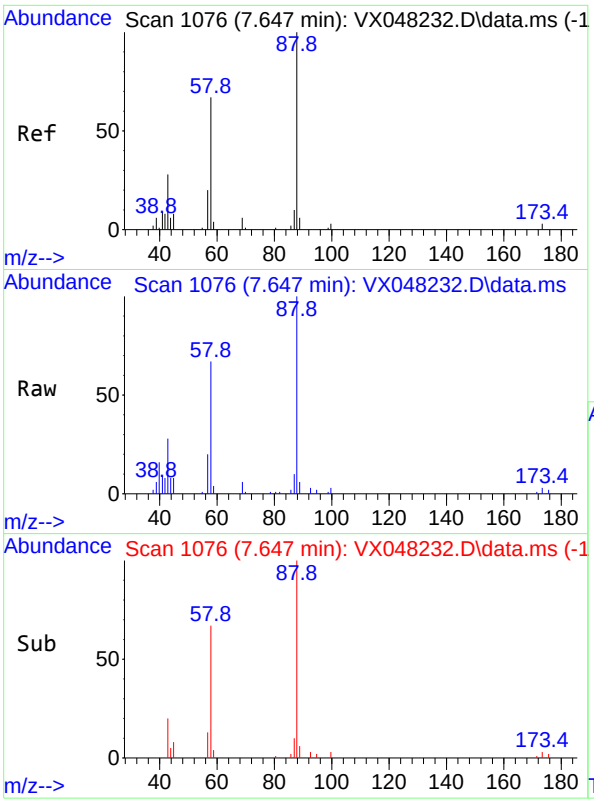


#48
Methyl methacrylate
Concen: 48.334 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 41 Resp: 65057

Ion	Ratio	Lower	Upper
41	100		
69	86.8	63.4	95.0
39	60.5	47.1	70.7



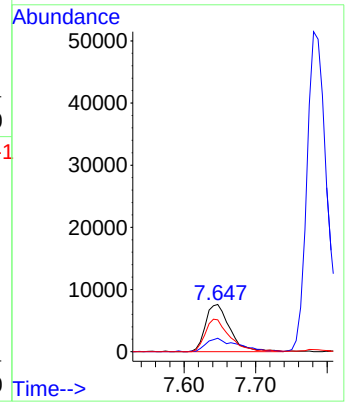


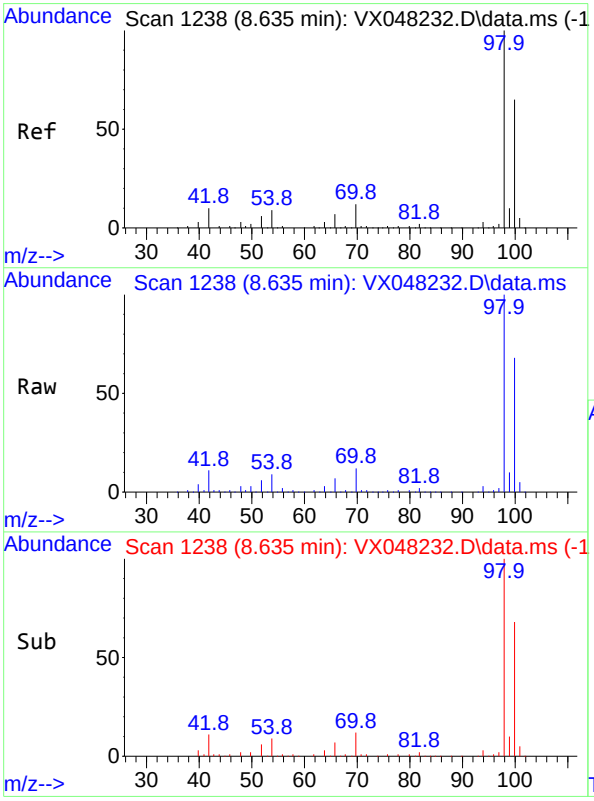
#49
1,4-Dioxane
Concen: 1006.888 ug/l
RT: 7.647 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 88 Resp: 17905

Ion	Ratio	Lower	Upper
88	100		
43	37.1	35.0	52.4
58	69.5	61.9	92.9

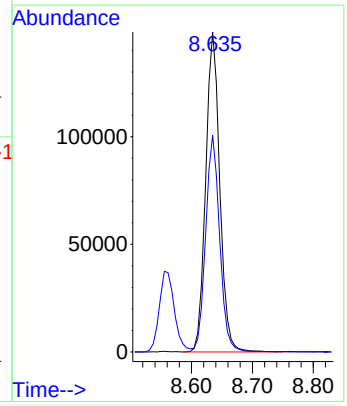


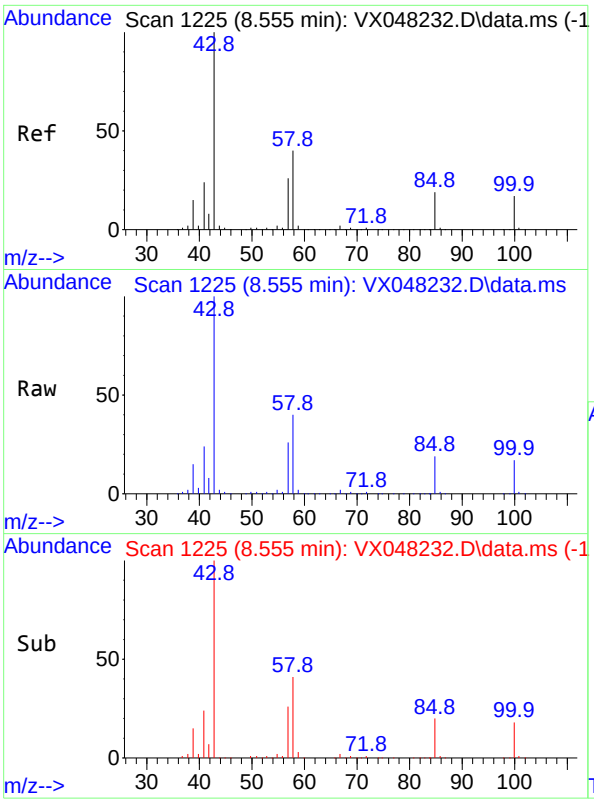


#50
Toluene-d8
Concen: 49.529 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 98 Resp: 239295

Ion	Ratio	Lower	Upper
98	100		
100	67.2	53.0	79.4



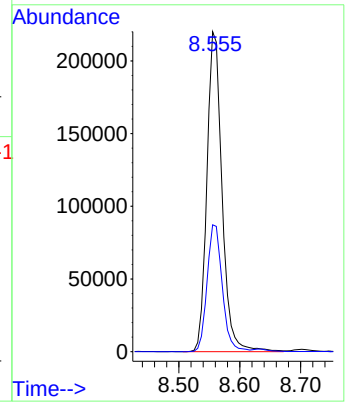


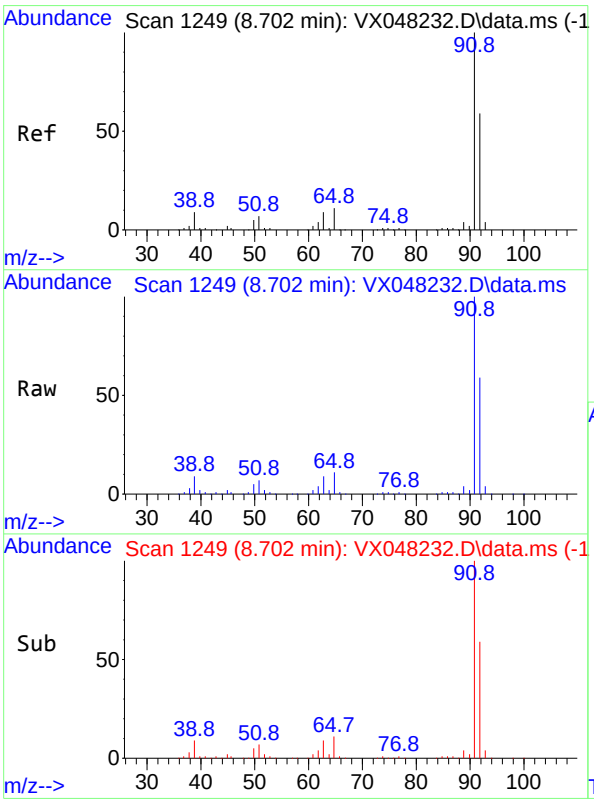
#51
4-Methyl-2-Pentanone
Concen: 247.515 ug/l
RT: 8.555 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 380665

Ion	Ratio	Lower	Upper
43	100		
58	39.8	29.5	44.3

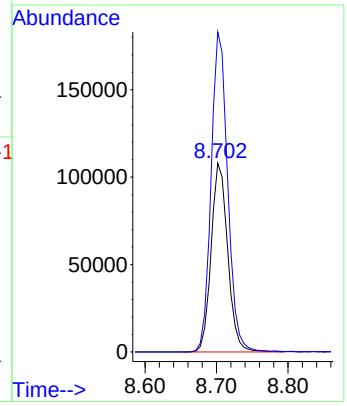


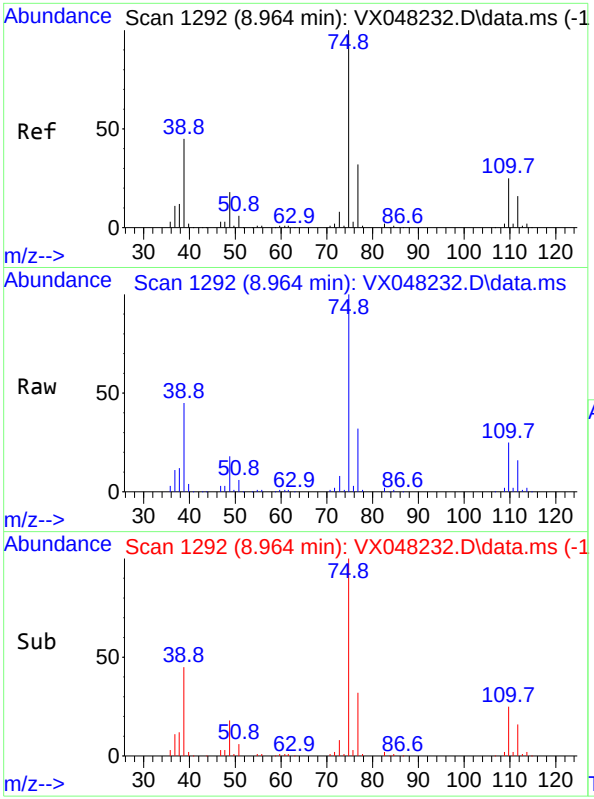


#52
Toluene
Concen: 48.136 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 92 Resp: 173942

Ion	Ratio	Lower	Upper
92	100		
91	169.6	136.1	204.1



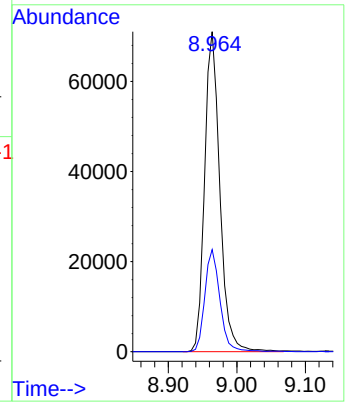


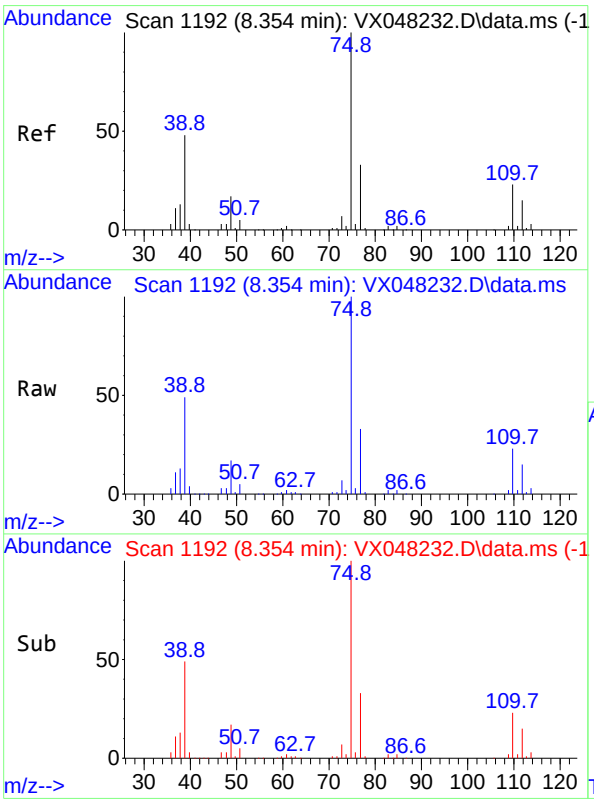
#53
t-1,3-Dichloropropene
Concen: 50.159 ug/l
RT: 8.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 109960

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.0	37.6

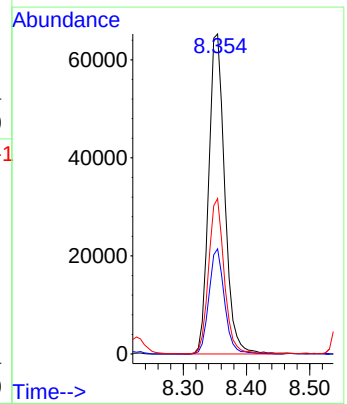


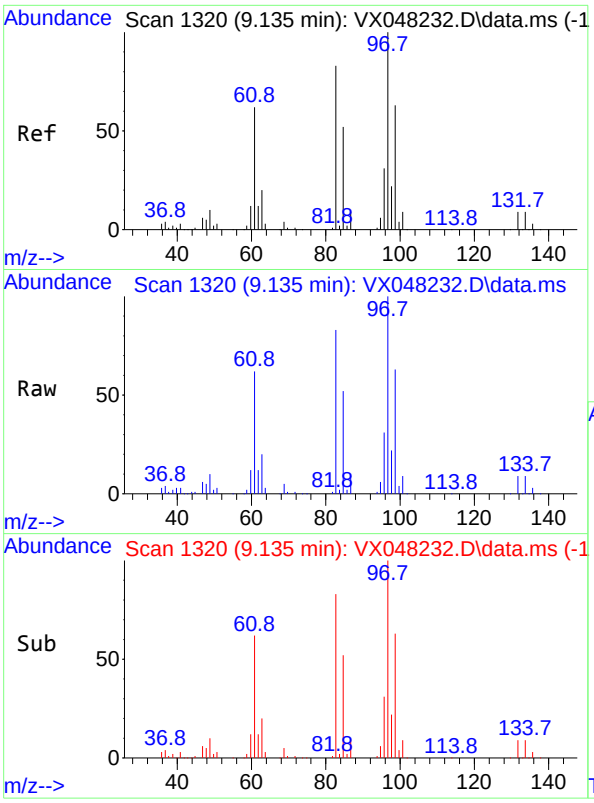


#54
cis-1,3-Dichloropropene
Concen: 48.847 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 75 Resp: 115534

Ion	Ratio	Lower	Upper
75	100		
77	32.8	24.9	37.3
39	46.7	42.6	64.0



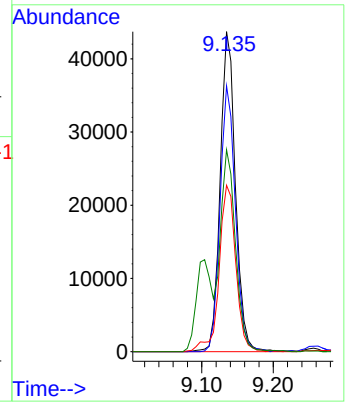


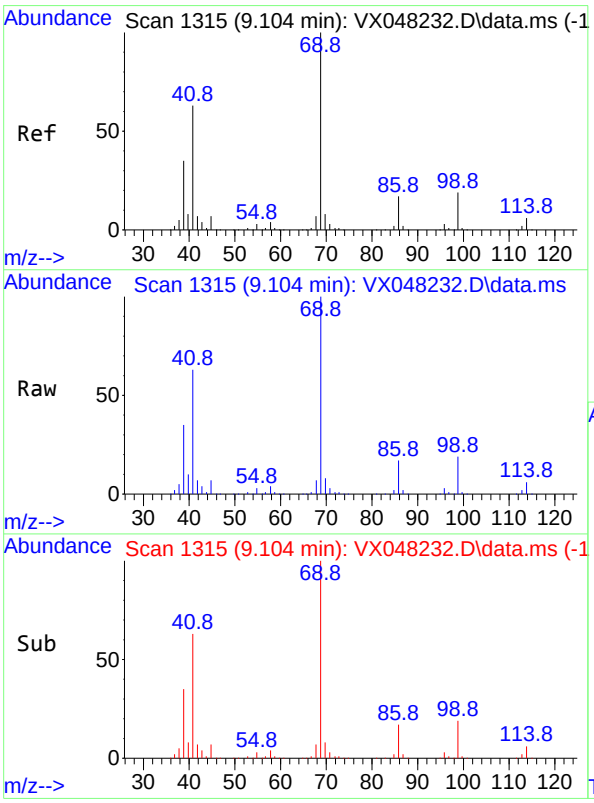
#55
1,1,2-Trichloroethane
Concen: 48.174 ug/l
RT: 9.135 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 97 Resp: 64737

Ion	Ratio	Lower	Upper
97	100		
83	83.0	70.6	105.8
85	52.0	45.0	67.6
99	63.1	50.9	76.3

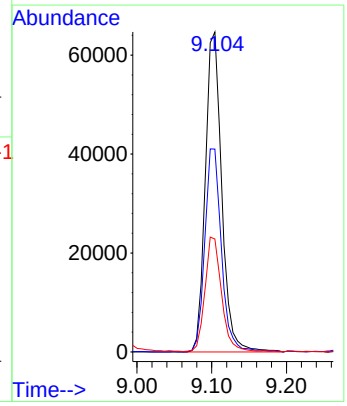


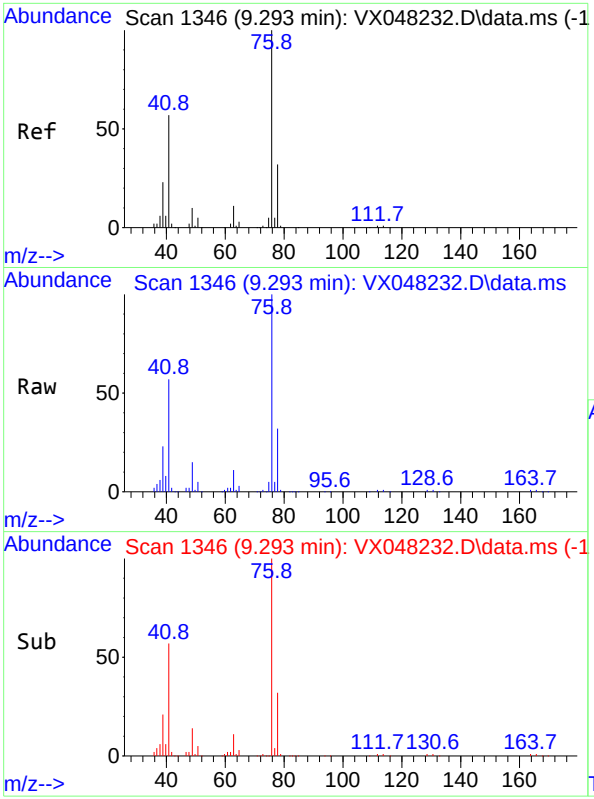


#56
Ethyl methacrylate
Concen: 50.292 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 69 Resp: 98851

Ion	Ratio	Lower	Upper
69	100		
41	64.4	56.0	84.0
39	35.9	31.6	47.4



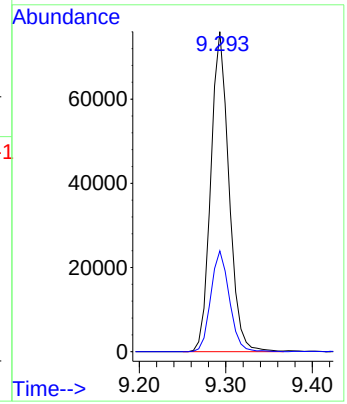


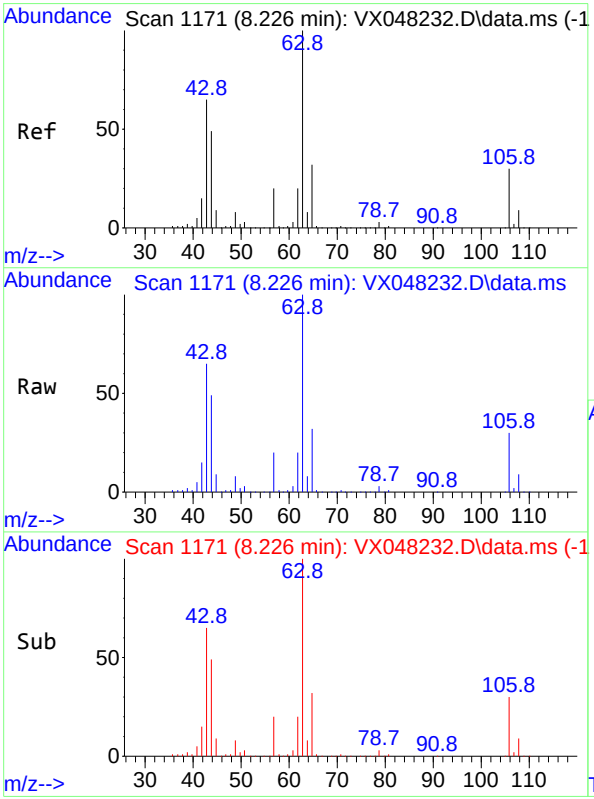
#57
1,3-Dichloropropane
Concen: 48.231 ug/l
RT: 9.293 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 110709

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.4	38.0

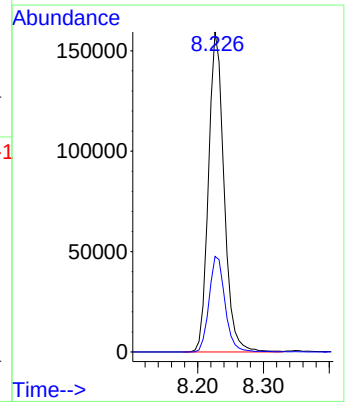


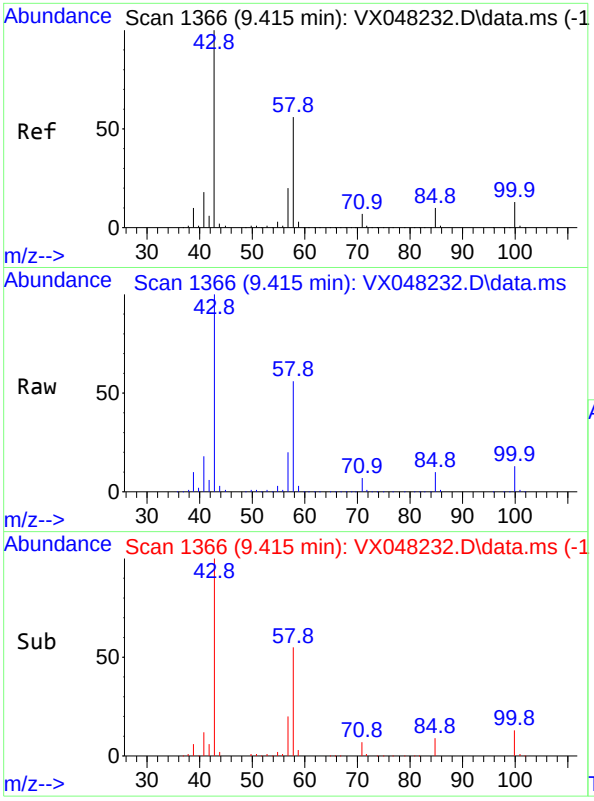


#58
2-Chloroethyl Vinyl ether
Concen: 248.279 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 63 Resp: 262387

Ion	Ratio	Lower	Upper
63	100		
106	30.6	22.2	33.2



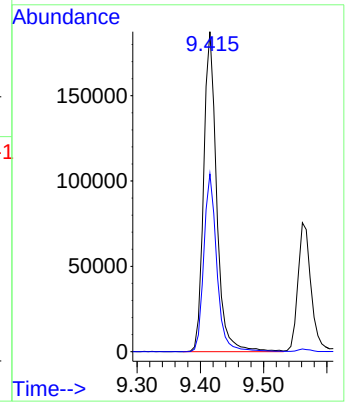


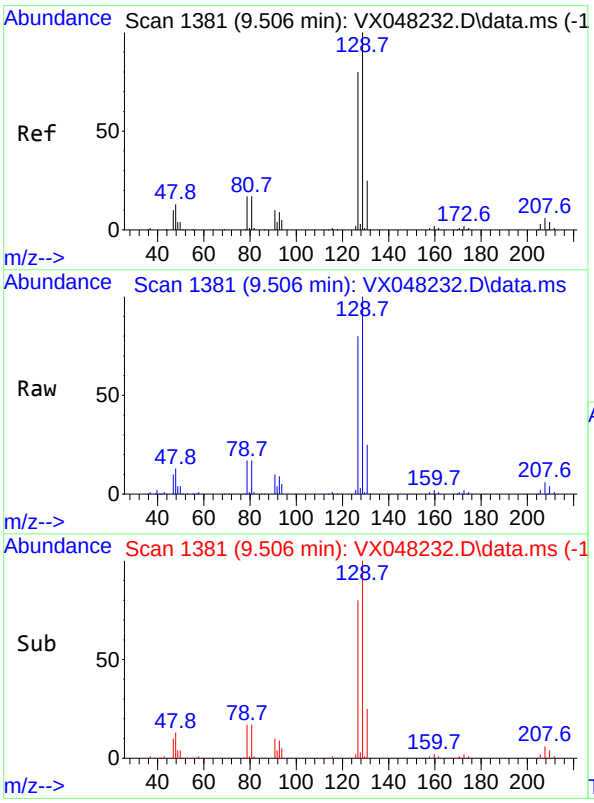
#59
2-Hexanone
Concen: 250.974 ug/l
RT: 9.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 269143

Ion	Ratio	Lower	Upper
43	100		
58	55.6	26.3	78.8

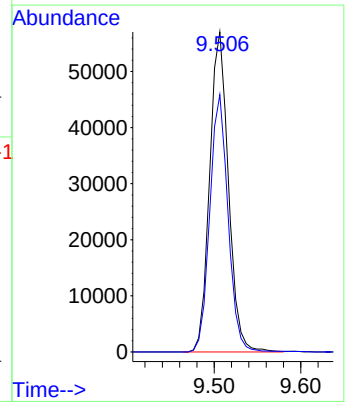


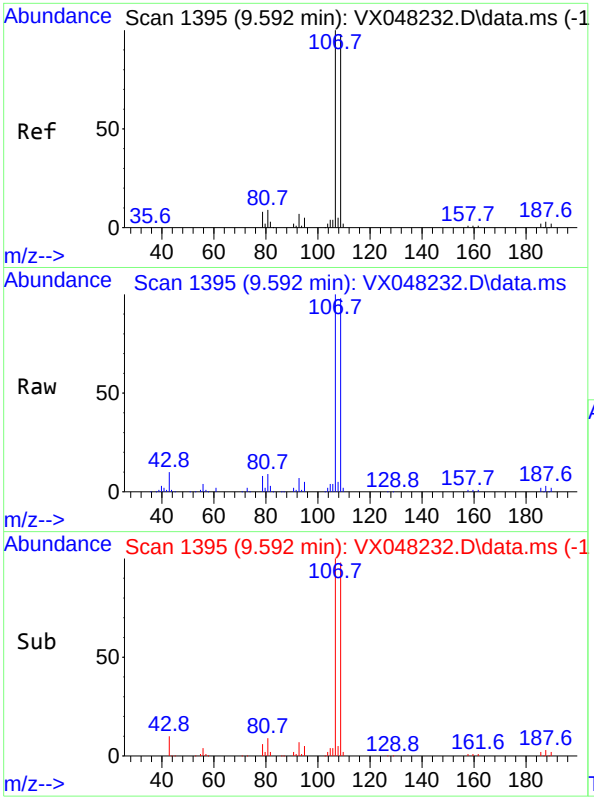


#60
Dibromochloromethane
Concen: 47.482 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:129 Resp: 85760

Ion	Ratio	Lower	Upper
129	100		
127	78.4	38.6	115.7



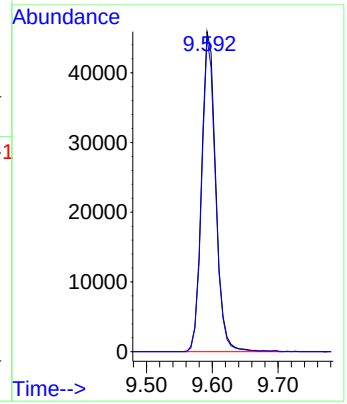


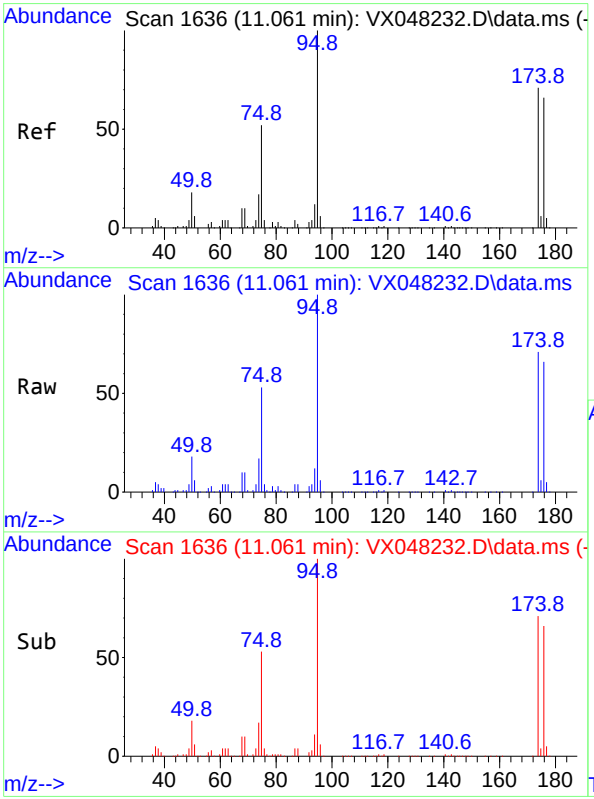
#61
1,2-Dibromoethane
Concen: 48.180 ug/l
RT: 9.592 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 69022

Ion	Ratio	Lower	Upper
107	100		
109	95.5	77.0	115.4

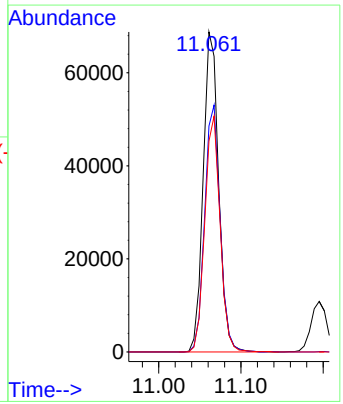


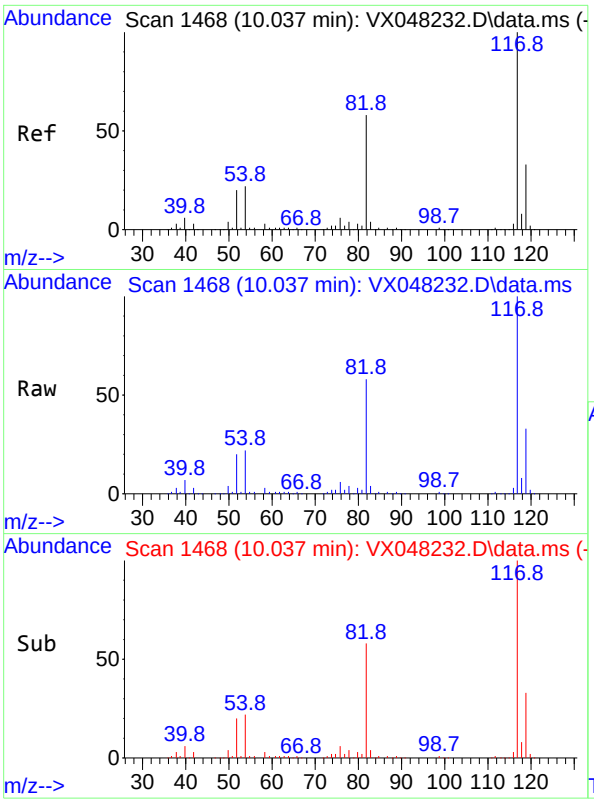


#62
4-Bromofluorobenzene
Concen: 48.737 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 95 Resp: 89579

Ion	Ratio	Lower	Upper
95	100		
174	77.3	0.0	147.8
176	73.3	0.0	142.8



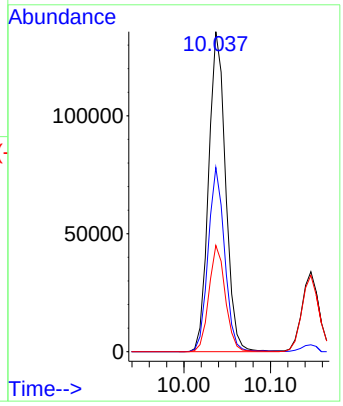


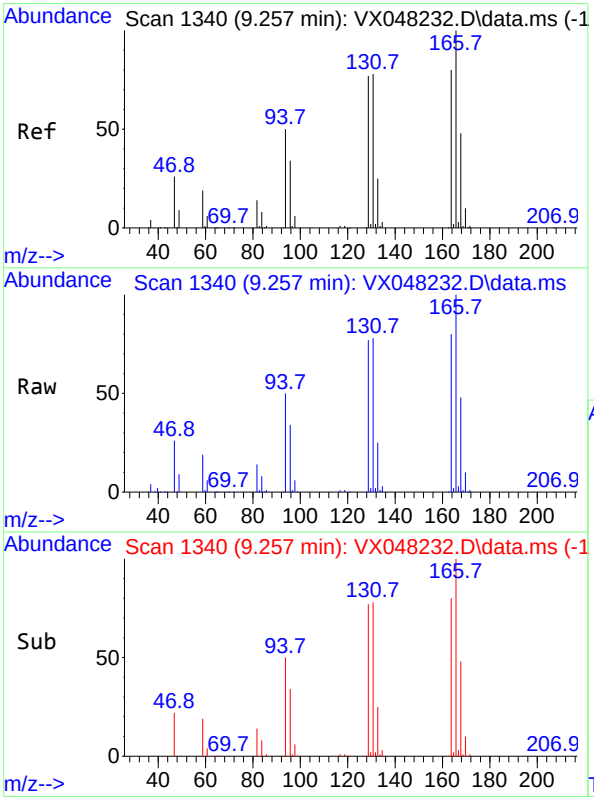
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:117 Resp: 184494

Ion	Ratio	Lower	Upper
117	100		
82	57.6	46.5	69.7
119	33.2	25.9	38.9

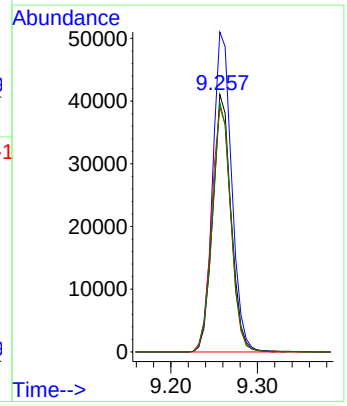


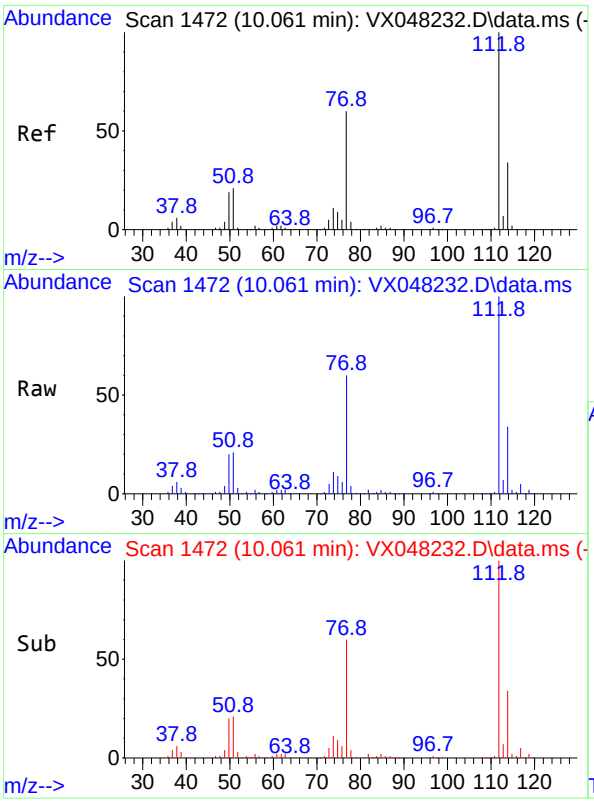


#64
Tetrachloroethene
Concen: 43.934 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:164 Resp: 60510

Ion	Ratio	Lower	Upper
164	100		
166	124.3	104.5	156.7
129	95.1	81.8	122.6
131	96.8	77.0	115.6



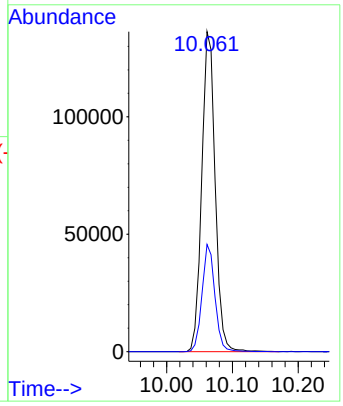


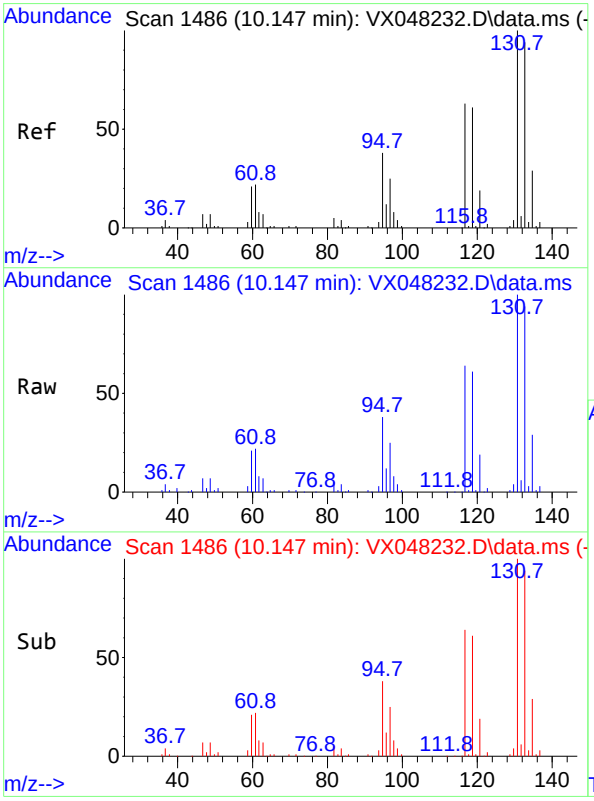
#65
Chlorobenzene
Concen: 46.465 ug/l
RT: 10.061 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 192841

Ion	Ratio	Lower	Upper
112	100		
114	33.5	26.2	39.2

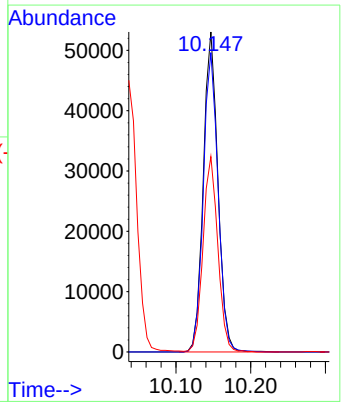


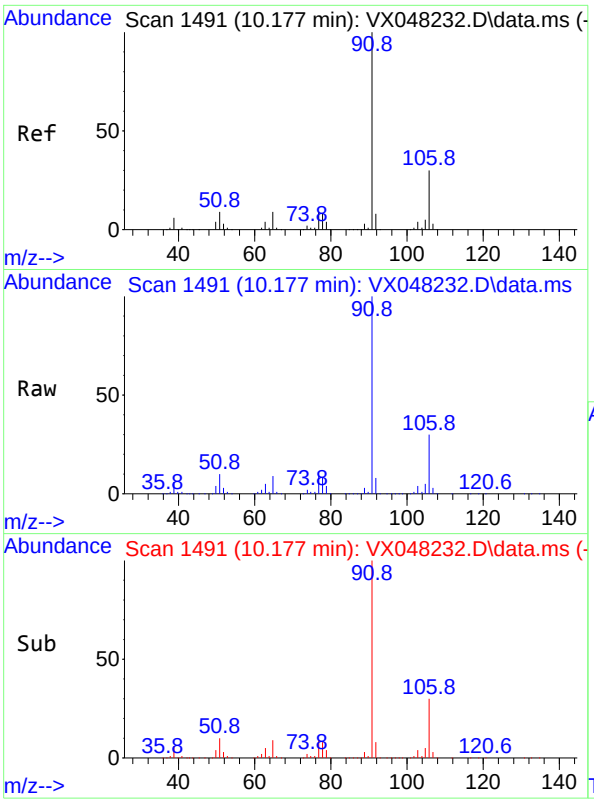


#66
1,1,1,2-Tetrachloroethane
Concen: 47.187 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:131 Resp: 71930

Ion	Ratio	Lower	Upper
131	100		
133	94.7	47.6	142.8
119	62.0	32.5	97.5



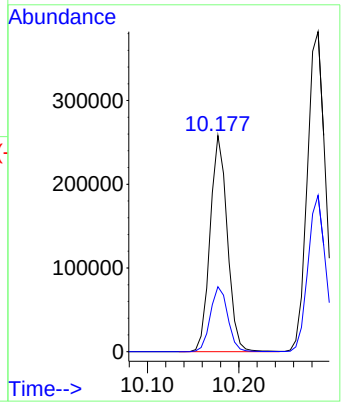


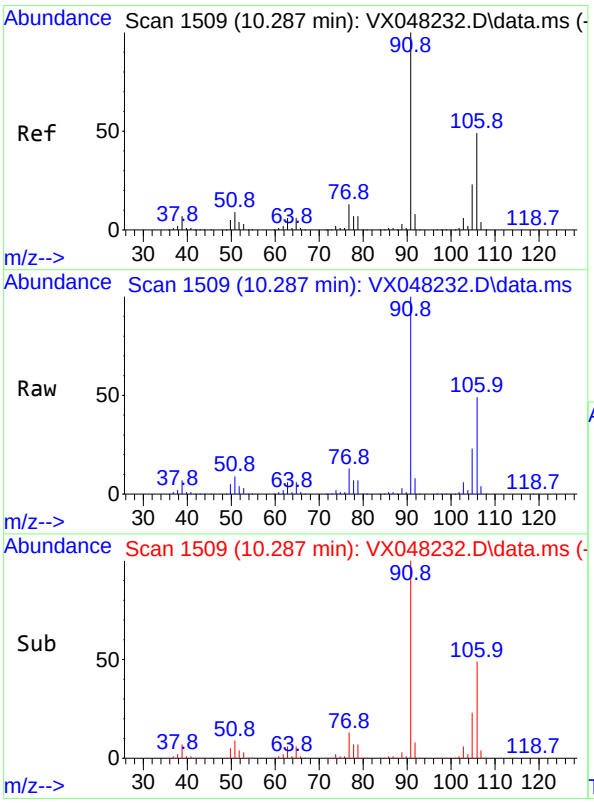
#67
Ethyl Benzene
Concen: 47.645 ug/l
RT: 10.177 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 336660

Ion	Ratio	Lower	Upper
91	100		
106	30.1	23.8	35.6

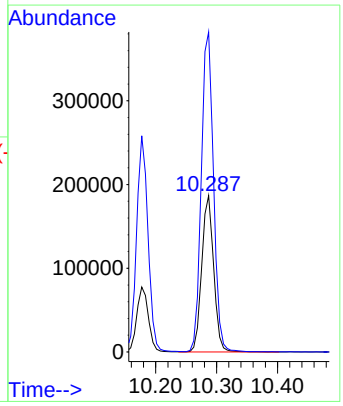


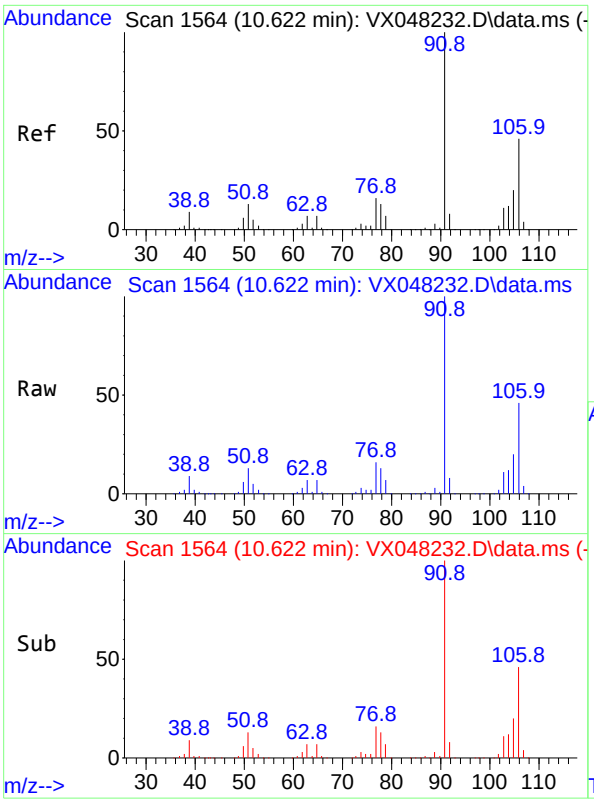


#68
m/p-Xylenes
Concen: 96.619 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:106 Resp: 253662

Ion	Ratio	Lower	Upper
106	100		
91	209.1	167.9	251.9



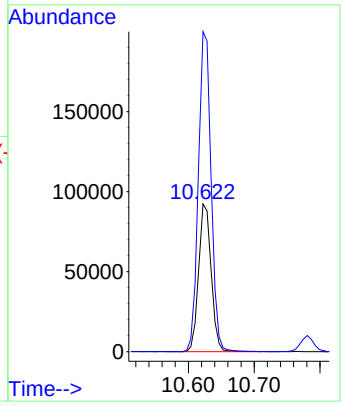


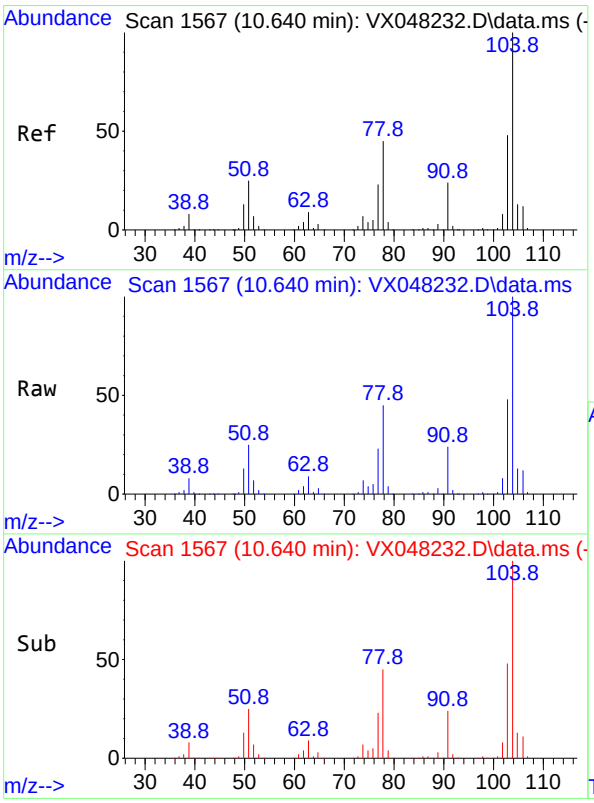
#69
o-Xylene
Concen: 48.363 ug/l
RT: 10.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 122582

Ion	Ratio	Lower	Upper
106	100		
91	219.2	111.3	333.9

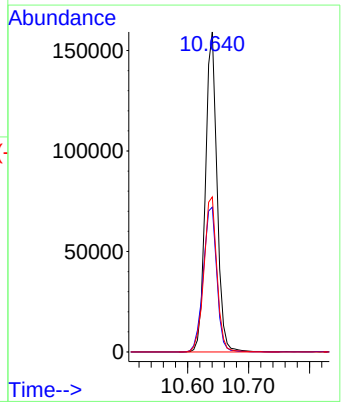


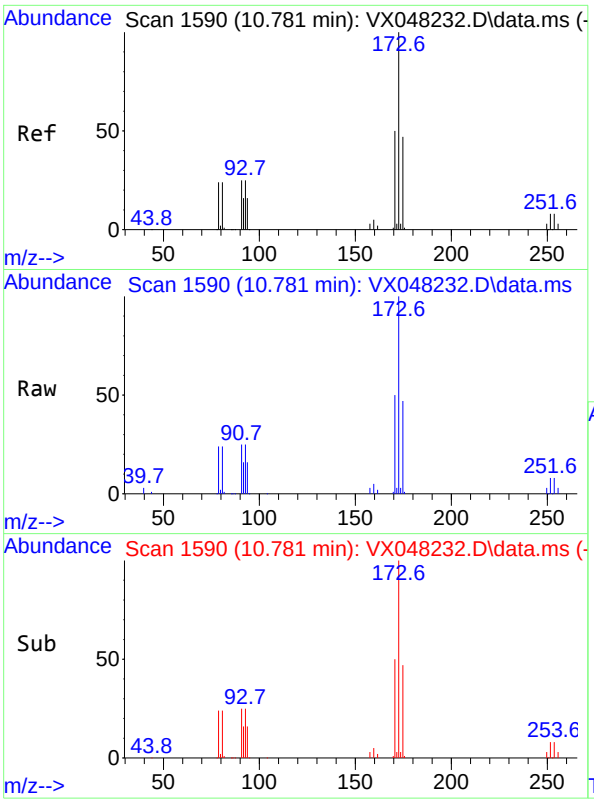


#70
Styrene
Concen: 48.857 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:104 Resp: 210861

Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.2	63.4
103	54.4	43.0	64.4



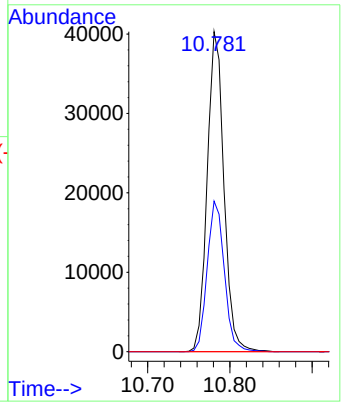


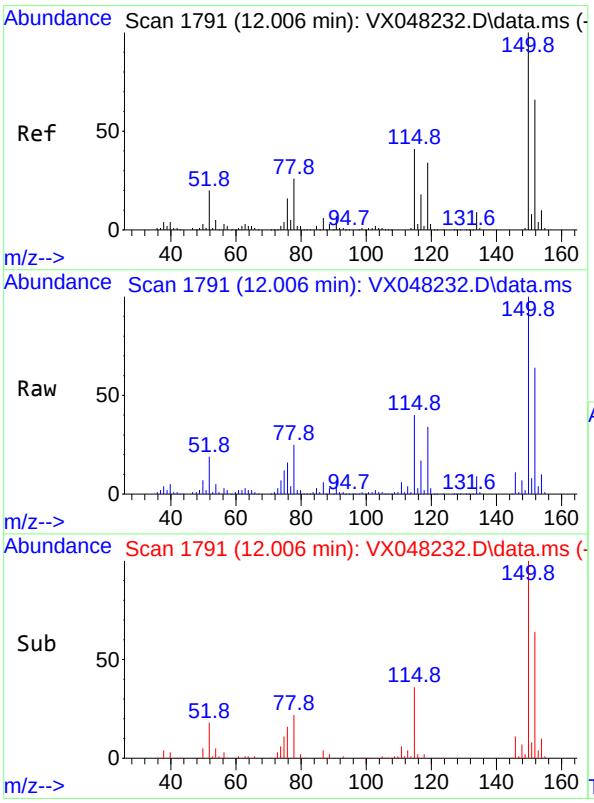
#71
Bromoform
Concen: 46.682 ug/l
RT: 10.781 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:173 Resp: 56874

Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.0	72.0
254	0.0	0.0	0.0

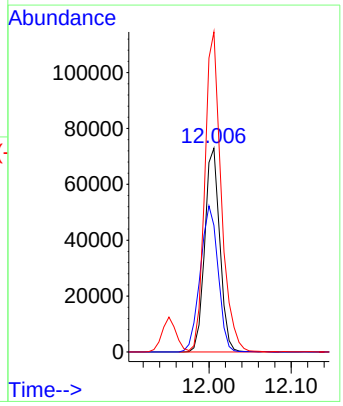


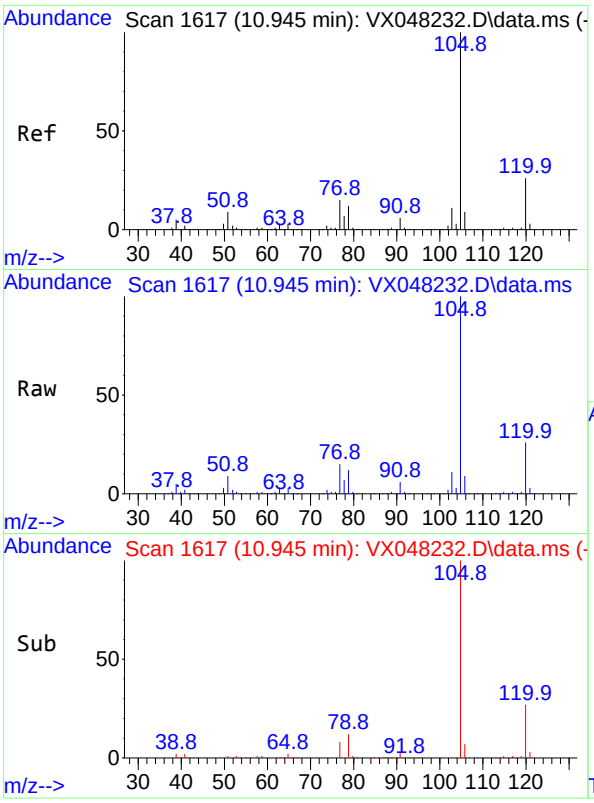


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:152 Resp: 92693

Ion	Ratio	Lower	Upper
152	100		
115	84.9	43.1	129.4
150	171.1	0.0	353.0



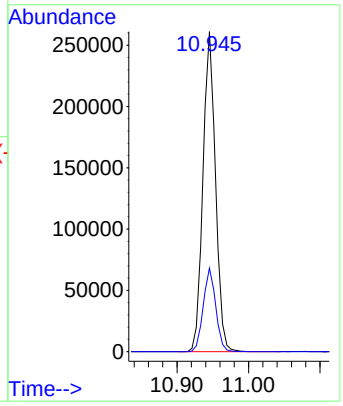


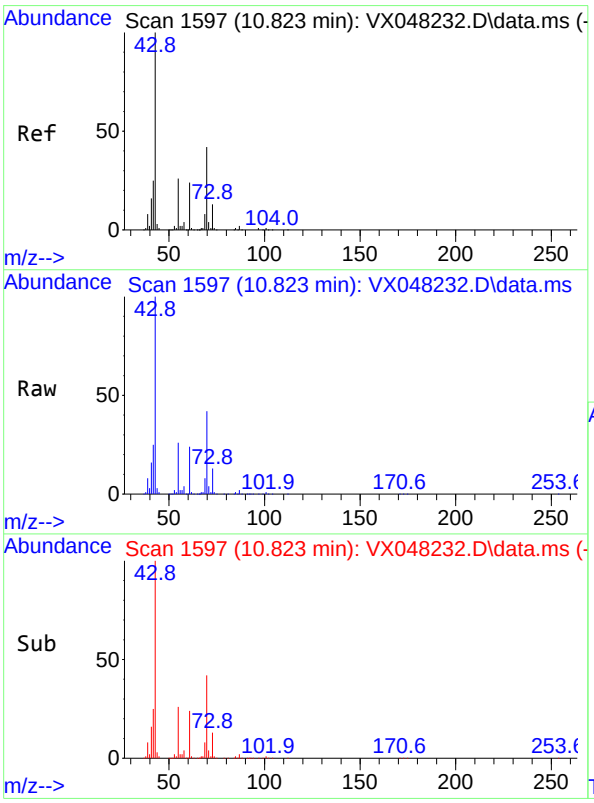
#73
Isopropylbenzene
Concen: 46.966 ug/l
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 317974

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.0	38.9

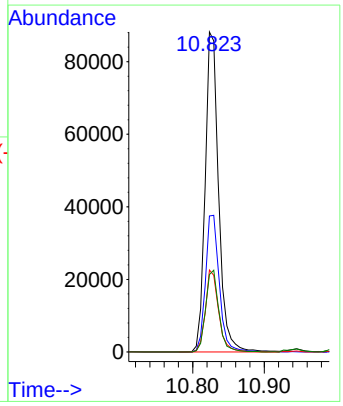


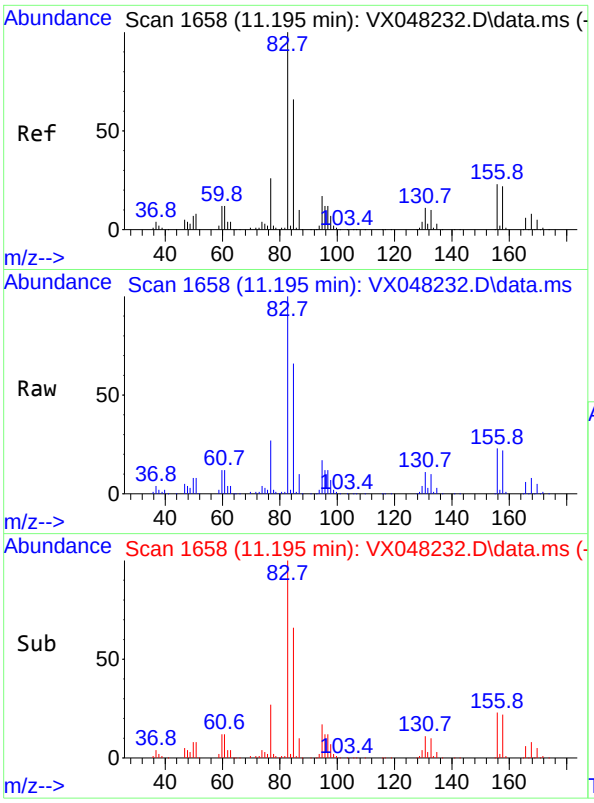


#74
N-amyl acetate
Concen: 48.171 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 43 Resp: 115683

Ion	Ratio	Lower	Upper
43	100		
70	43.8	32.2	48.2
55	25.1	19.1	28.7
61	25.1	18.6	28.0



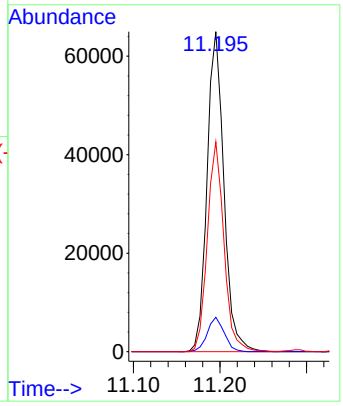


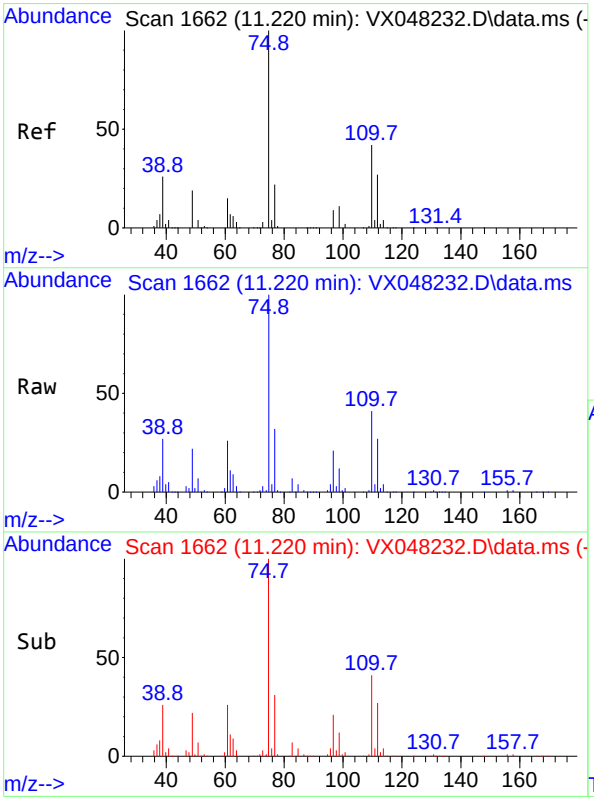
#75
1,1,2,2-Tetrachloroethane
Concen: 47.437 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 87705

Ion	Ratio	Lower	Upper
83	100		
131	10.9	4.8	14.4
85	64.5	31.9	95.7

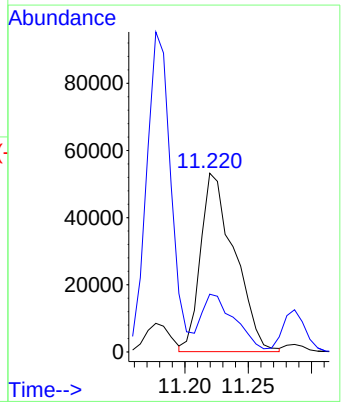


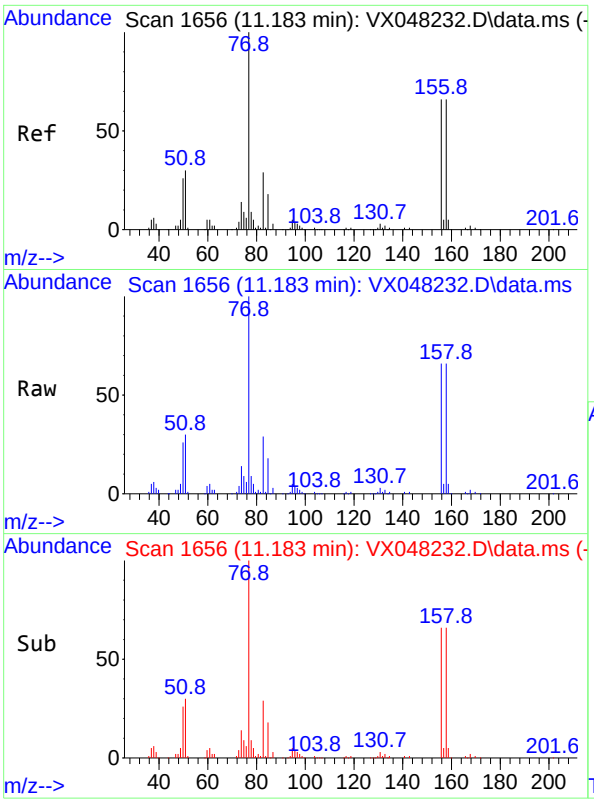


#76
1,2,3-Trichloropropane
Concen: 66.118 ug/l
RT: 11.220 min Scan# 1662
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 75 Resp: 99387

Ion	Ratio	Lower	Upper
75	100		
77	30.9	22.4	67.2



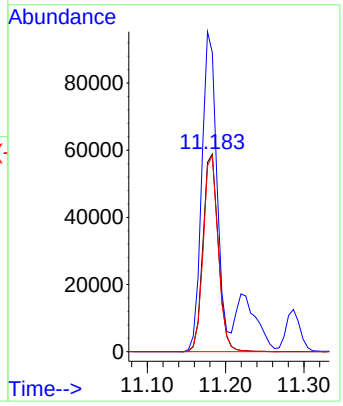


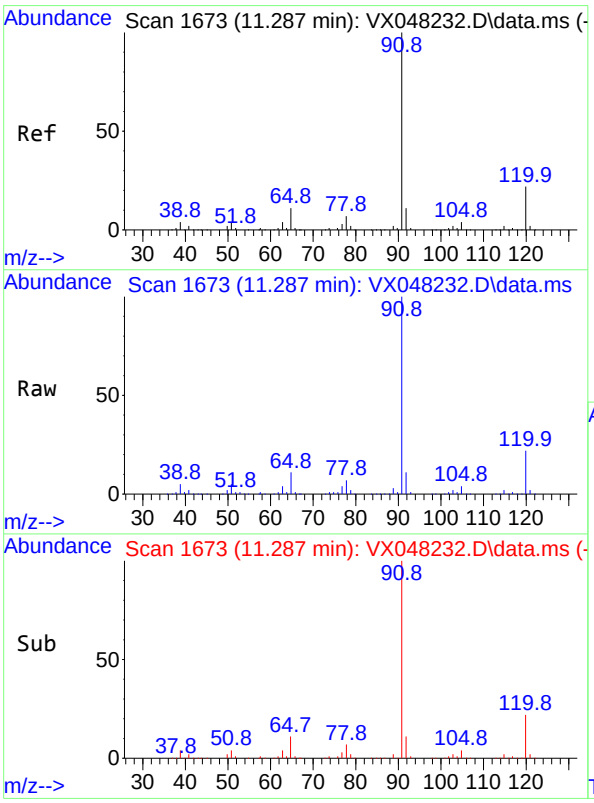
#77
Bromobenzene
Concen: 46.856 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:156 Resp: 79543

Ion	Ratio	Lower	Upper
156	100		
77	161.6	87.0	261.0
158	97.3	47.8	143.4

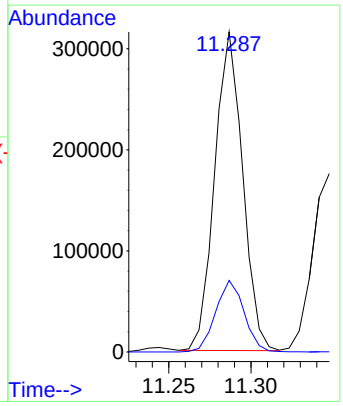


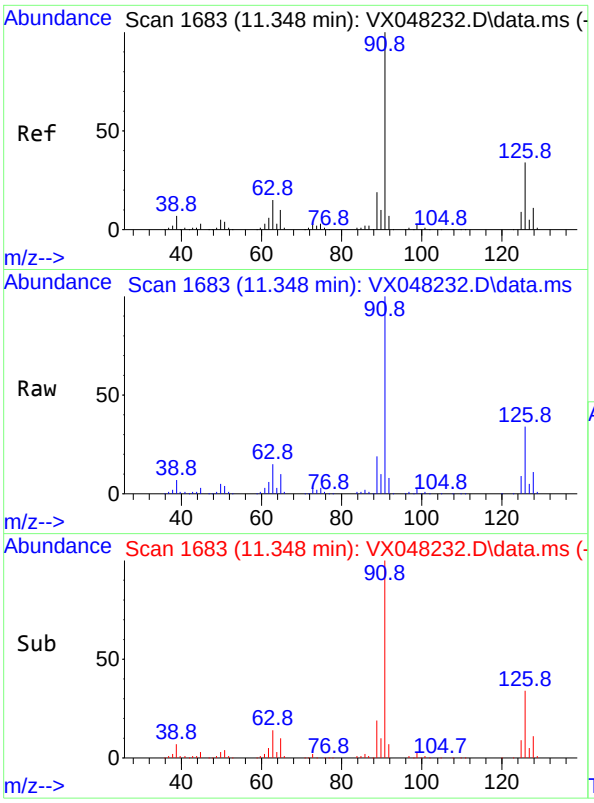


#78
n-propylbenzene
Concen: 47.496 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 91 Resp: 372312

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.1	33.1



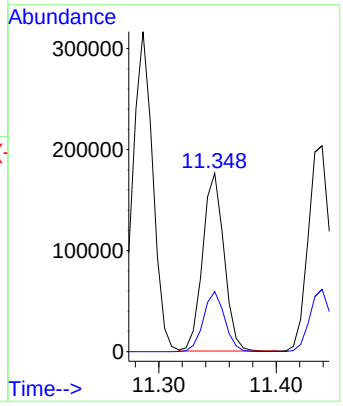


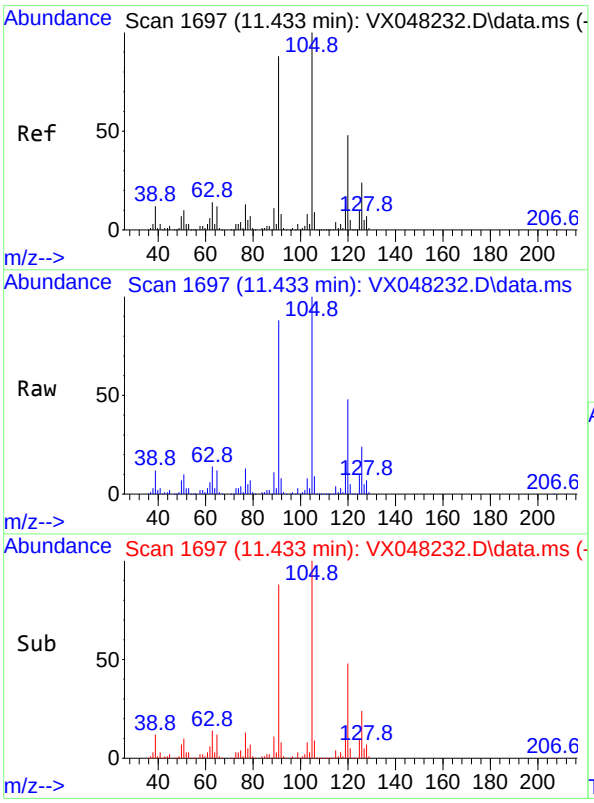
#79
2-Chlorotoluene
Concen: 46.757 ug/l
RT: 11.348 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 222217

Ion	Ratio	Lower	Upper
91	100		
126	33.8	16.4	49.4

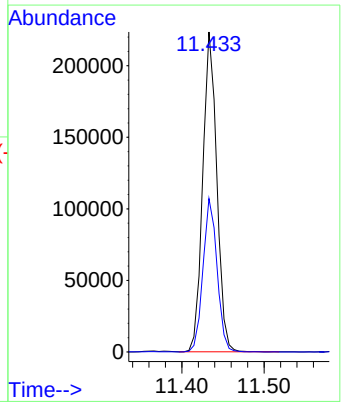


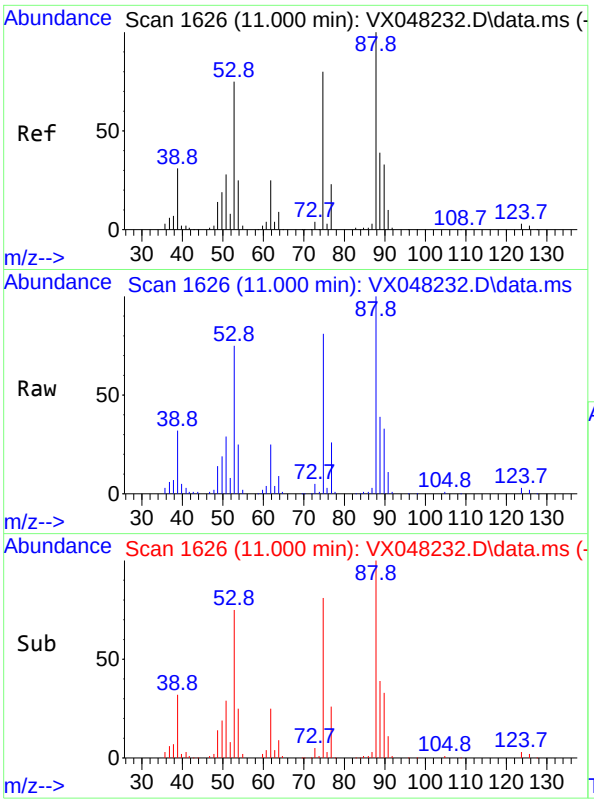


#80
1,3,5-Trimethylbenzene
Concen: 47.329 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:105 Resp: 265174

Ion	Ratio	Lower	Upper
105	100		
120	48.1	24.0	72.0



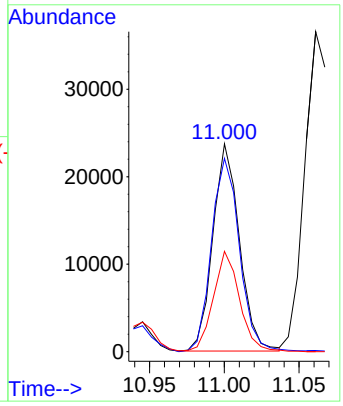


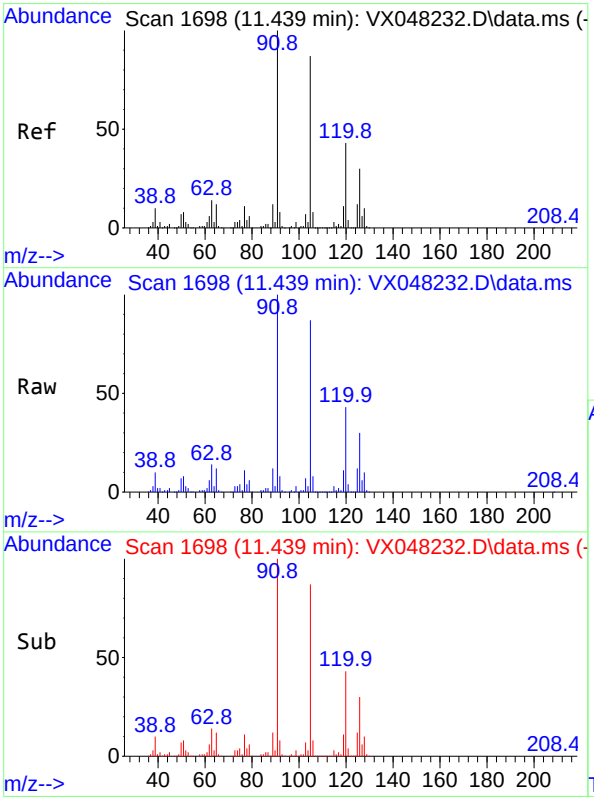
#81
trans-1,4-Dichloro-2-butene
Concen: 47.415 ug/l
RT: 11.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 29295

Ion	Ratio	Lower	Upper
75	100		
53	98.5	79.5	119.3
89	48.0	36.8	55.2

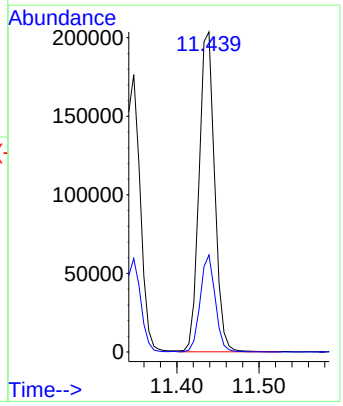


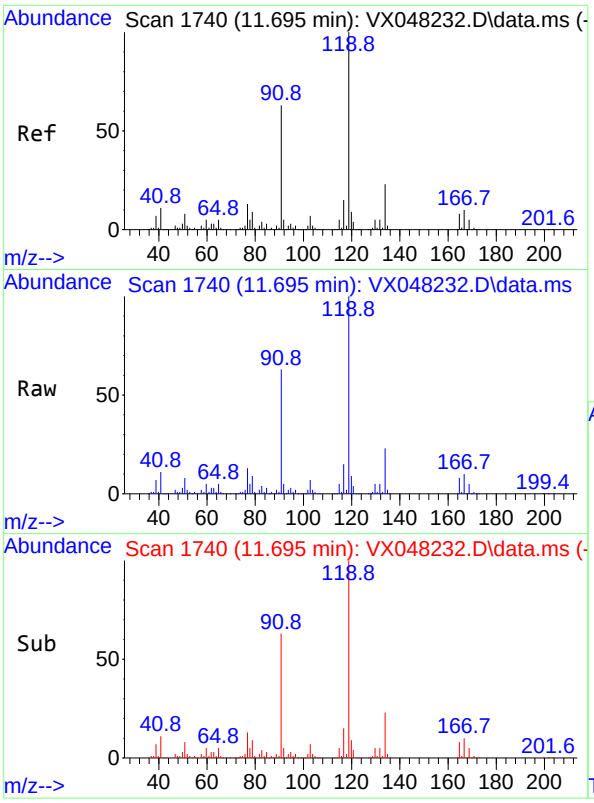


#82
4-Chlorotoluene
Concen: 47.367 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 91 Resp: 267236

Ion	Ratio	Lower	Upper
91	100		
126	29.3	14.1	42.4



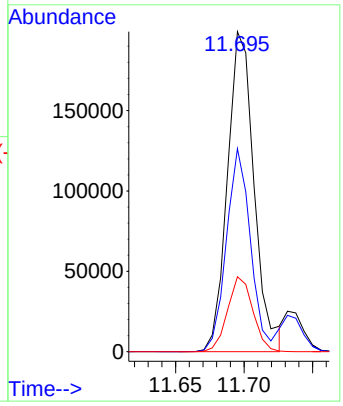


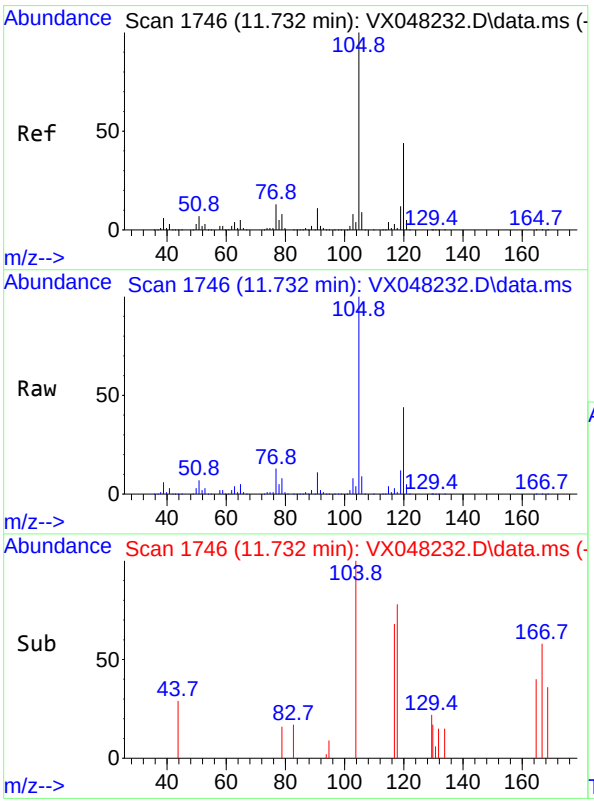
#83
tert-Butylbenzene
Concen: 46.938 ug/l
RT: 11.695 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:119 Resp: 270202

Ion	Ratio	Lower	Upper
119	100		
91	57.2	30.3	91.0
134	22.2	11.4	34.2

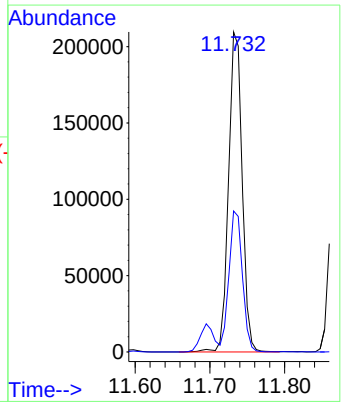


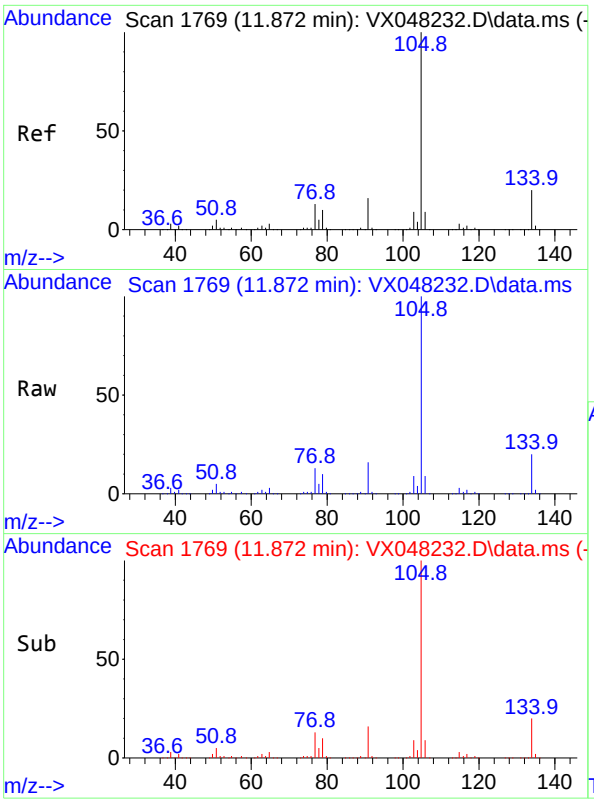


#84
1,2,4-Trimethylbenzene
Concen: 47.480 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:105 Resp: 265485

Ion	Ratio	Lower	Upper
105	100		
120	43.5	22.1	66.5



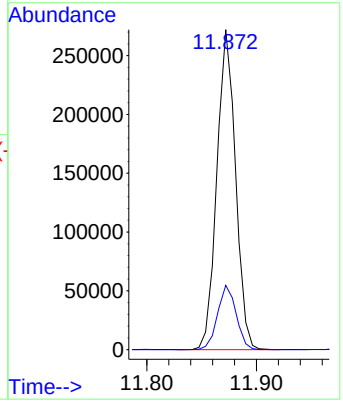


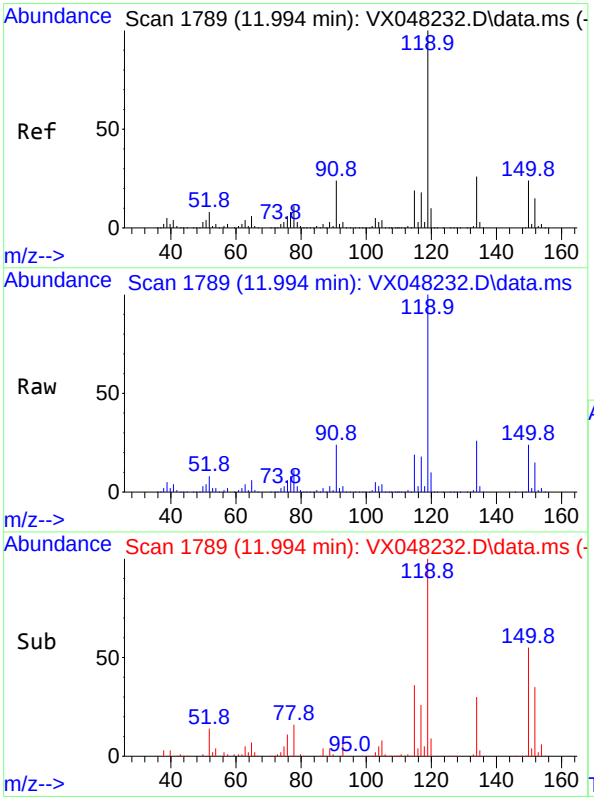
#85
sec-Butylbenzene
Concen: 46.524 ug/l
RT: 11.872 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 322219

Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.1	30.1

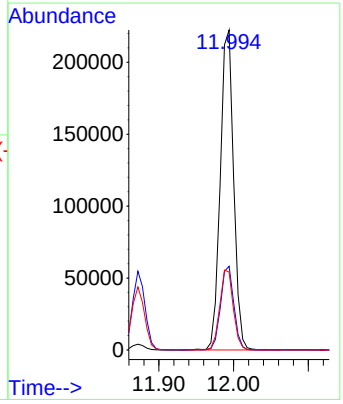


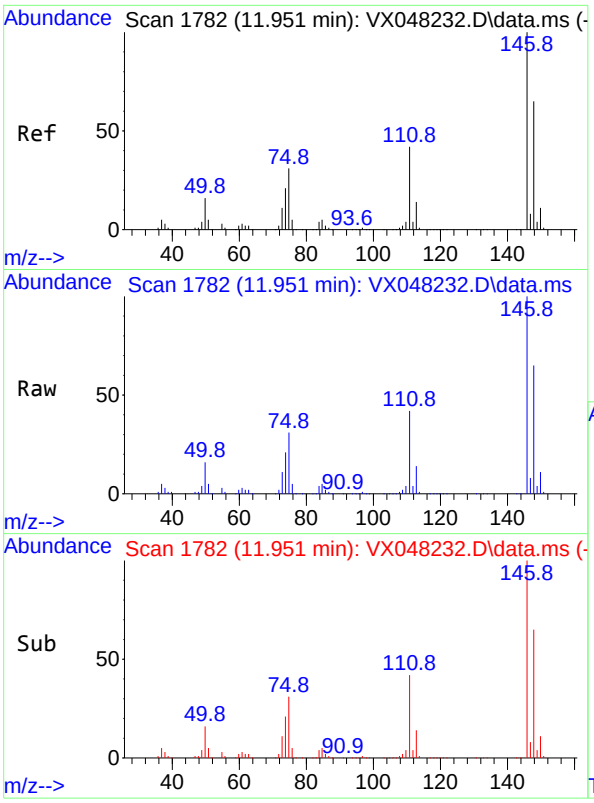


#86
p-Isopropyltoluene
Concen: 46.242 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:119 Resp: 276821

Ion	Ratio	Lower	Upper
119	100		
134	25.9	13.0	39.0
91	25.3	12.1	36.3



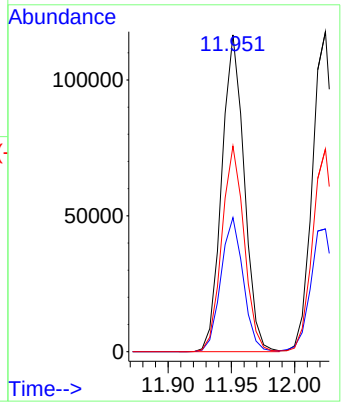


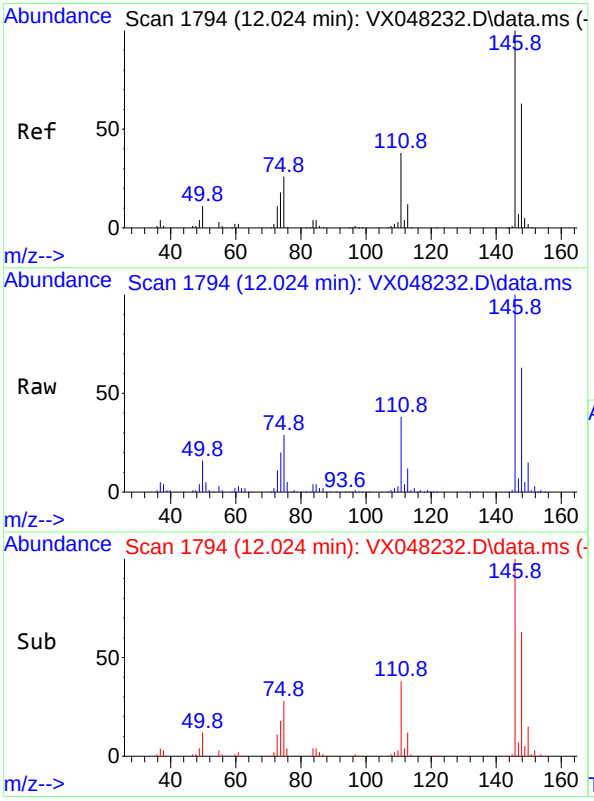
#87
1,3-Dichlorobenzene
Concen: 44.902 ug/l
RT: 11.951 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 143699

Ion	Ratio	Lower	Upper
146	100		
111	42.1	20.4	61.2
148	64.6	31.9	95.9

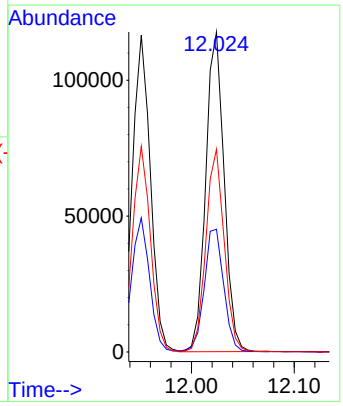


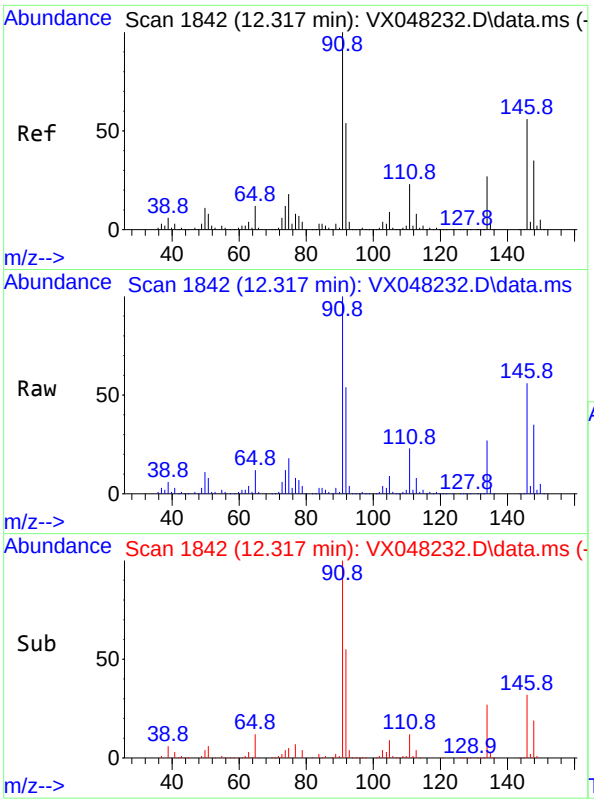


#88
1,4-Dichlorobenzene
Concen: 44.097 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:146 Resp: 146196

Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.1	60.2
148	63.3	31.8	95.3



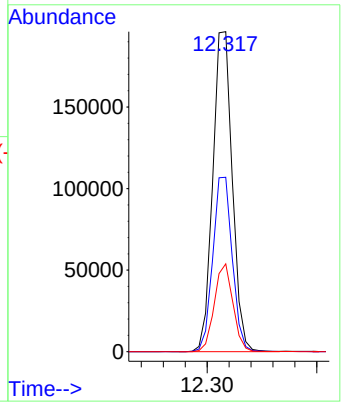


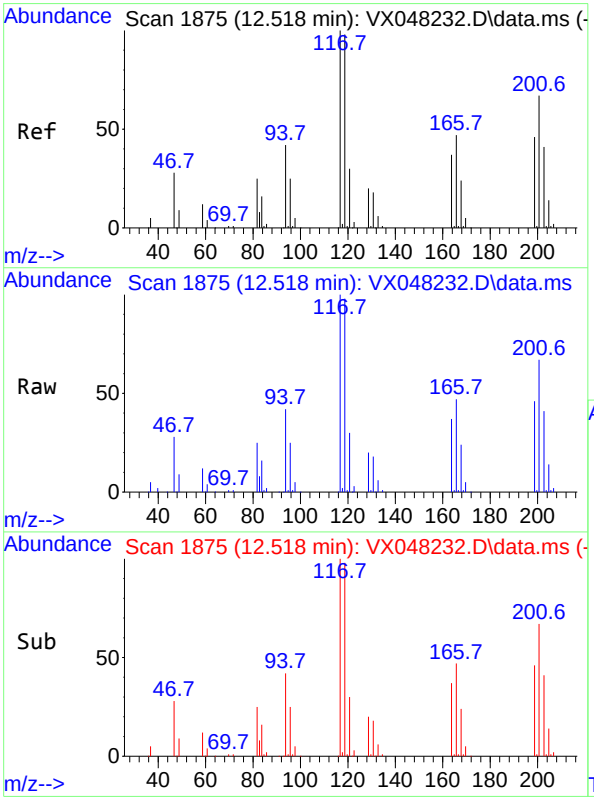
#89
n-Butylbenzene
Concen: 44.609 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 243063

Ion	Ratio	Lower	Upper
91	100		
92	54.5	26.9	80.6
134	26.2	12.7	38.1

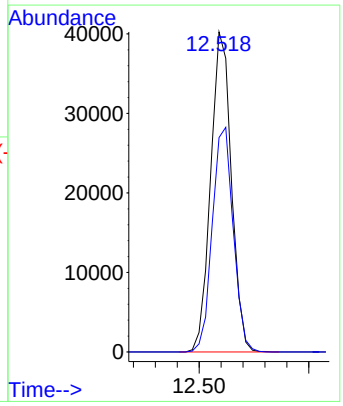


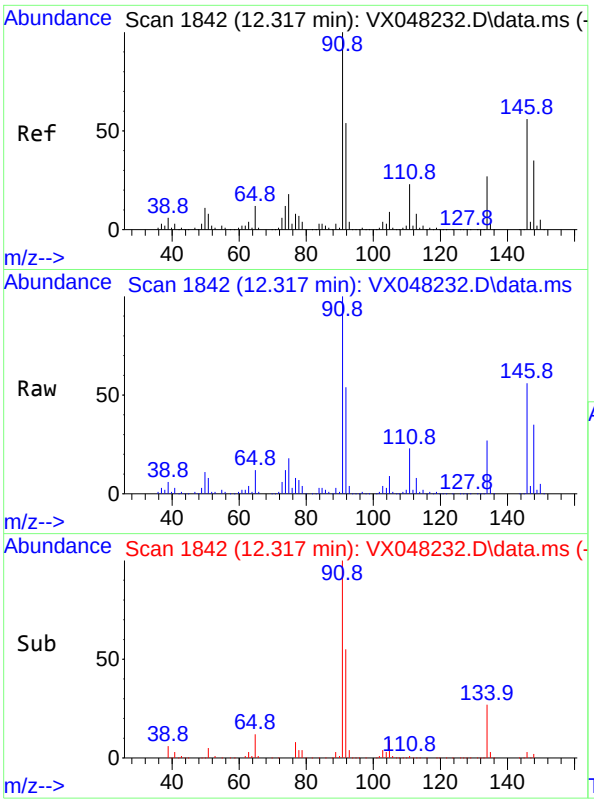


#90
Hexachloroethane
Concen: 44.609 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:117 Resp: 52735

Ion	Ratio	Lower	Upper
117	100		
201	71.2	34.1	102.2



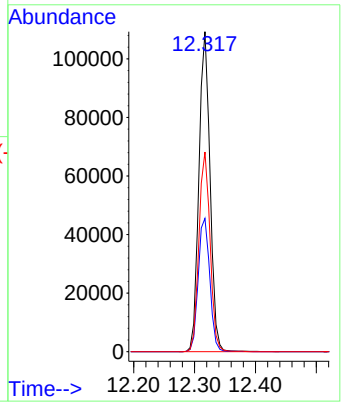


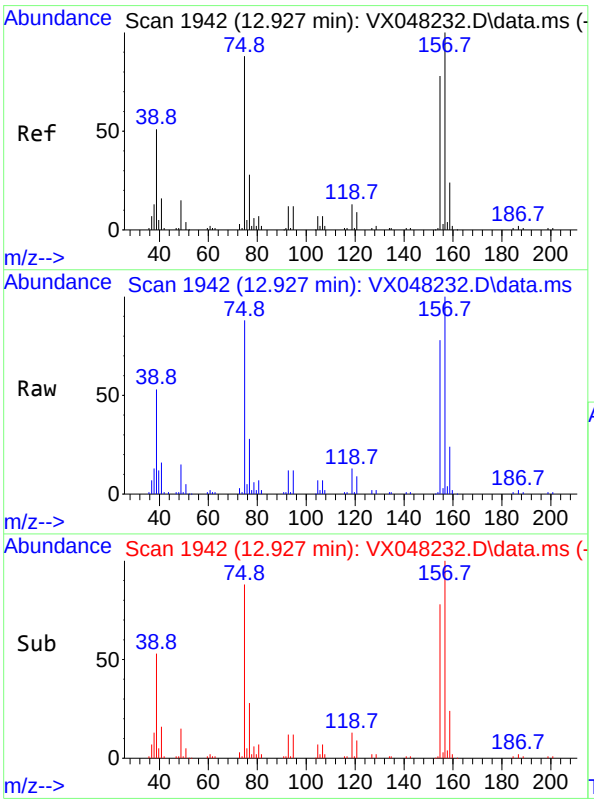
#91
1,2-Dichlorobenzene
Concen: 46.091 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 138489

Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.9	65.5
148	62.9	31.9	95.5

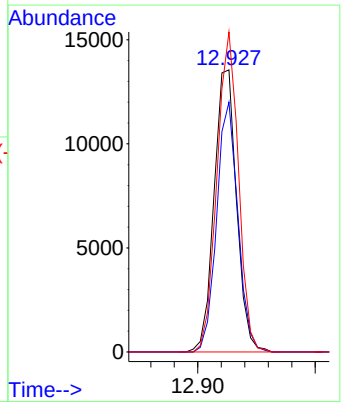


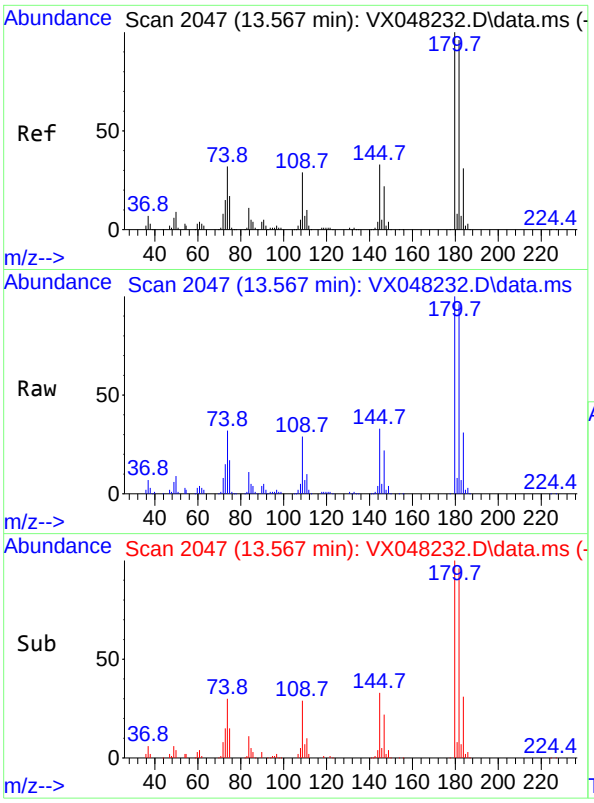


#92
1,2-Dibromo-3-Chloropropane
Concen: 48.120 ug/l
RT: 12.927 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 75 Resp: 18059

Ion	Ratio	Lower	Upper
75	100		
155	83.5	42.8	128.4
157	108.0	54.2	162.6



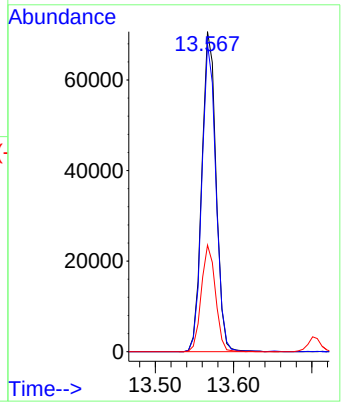


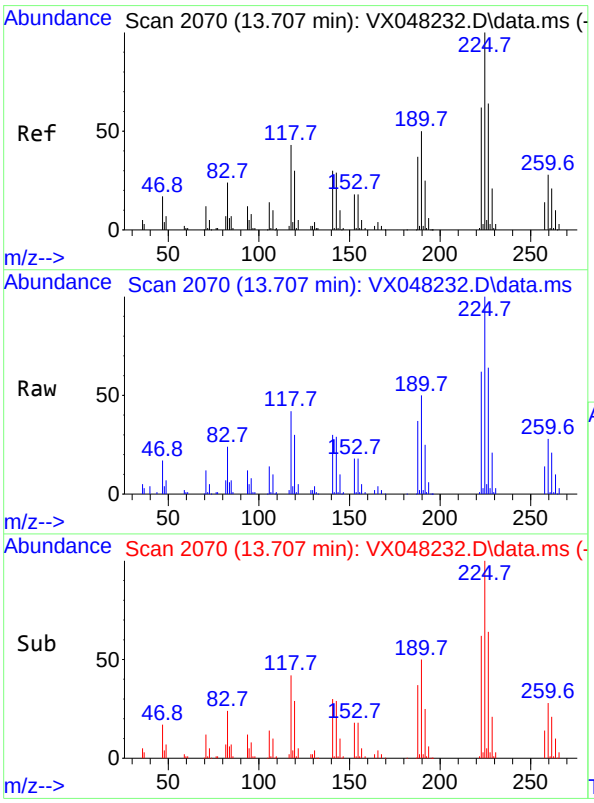
#93
1,2,4-Trichlorobenzene
Concen: 43.761 ug/l
RT: 13.567 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:180 Resp: 88920

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.3	142.0
145	33.1	16.3	48.9

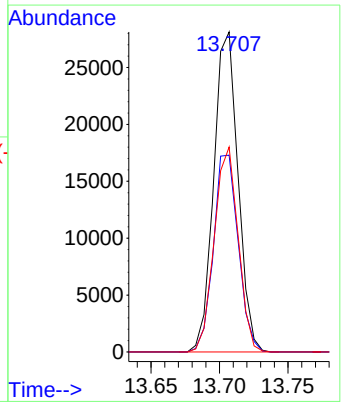


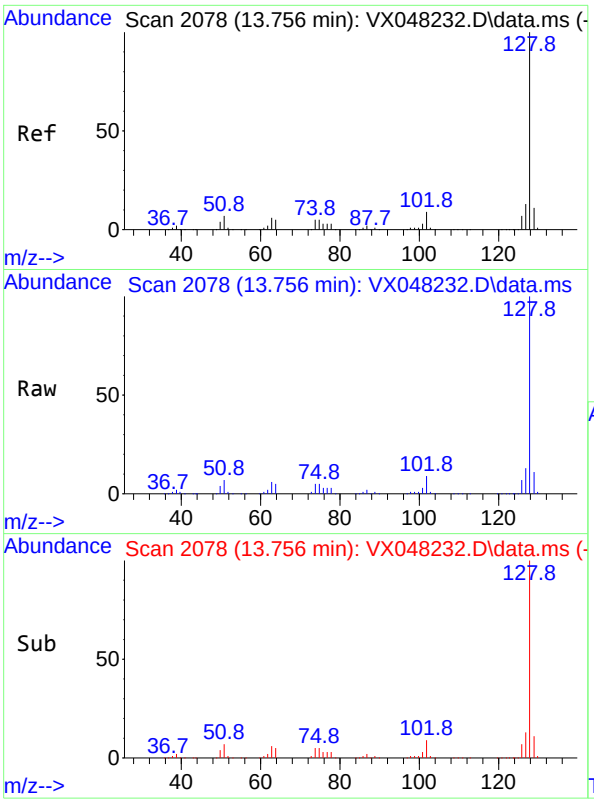


#94
Hexachlorobutadiene
Concen: 45.467 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:225 Resp: 34615

Ion	Ratio	Lower	Upper
225	100		
223	63.0	32.6	97.7
227	62.9	32.5	97.4



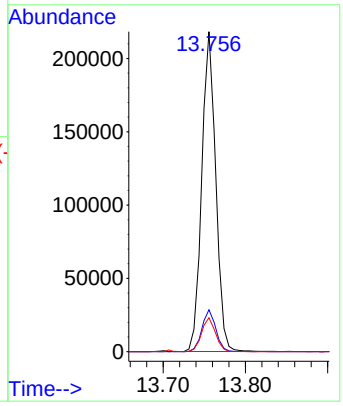


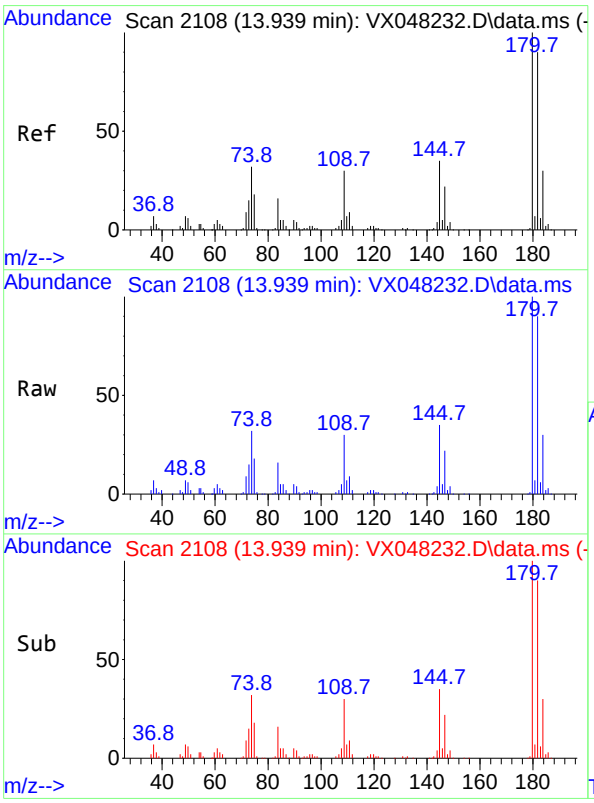
#95
Naphthalene
Concen: 47.792 ug/l
RT: 13.756 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 257281

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.4
129	10.6	8.6	12.8

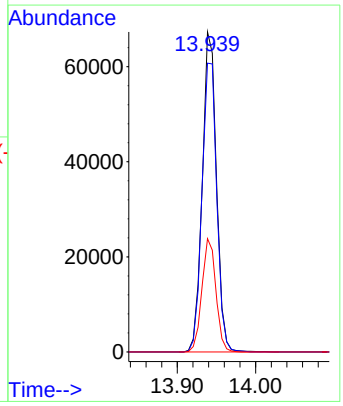




#96
1,2,3-Trichlorobenzene
Concen: 45.200 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:180 Resp: 84279

Ion	Ratio	Lower	Upper
180	100		
182	94.5	46.6	139.7
145	35.0	16.9	50.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048233.D
Acq On : 20 Oct 2025 12:22
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Oct 25 03:35:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	117551	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.750	114	187766	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.036	117	163588	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	80621	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	162188	98.406	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 196.820%#			
35) Dibromofluoromethane	5.373	113	129919	101.351	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 202.700%#			
50) Toluene-d8	8.634	98	448948	99.920	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 199.840%#			
62) 4-Bromofluorobenzene	11.061	95	167565	98.032	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 196.060%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	127029	105.118	ug/l	97
3) Chloromethane	1.300	50	111895	99.201	ug/l	100
4) Vinyl Chloride	1.379	62	108564	103.938	ug/l	100
5) Bromomethane	1.605	94	65752	92.758	ug/l	99
6) Chloroethane	1.690	64	66332	108.072	ug/l	92
7) Trichlorofluoromethane	1.892	101	213301	106.479	ug/l	98
8) Diethyl Ether	2.135	74	58302	103.435	ug/l	88
9) 1,1,2-Trichlorotrifluo...	2.337	101	136951	107.961	ug/l	96
10) Methyl Iodide	2.452	142	183697	115.192	ug/l	99
11) Tert butyl alcohol	2.952	59	78284	478.391	ug/l	99
12) 1,1-Dichloroethene	2.324	96	131152	106.271	ug/l	93
13) Acrolein	2.239	56	87244	522.748	ug/l	100
14) Allyl chloride	2.666	41	214290	104.584	ug/l	98
15) Acrylonitrile	3.056	53	298022	505.062	ug/l	100
16) Acetone	2.373	43	260058	459.946	ug/l	99
17) Carbon Disulfide	2.513	76	380127	97.731	ug/l	99
18) Methyl Acetate	2.702	43	120920	102.405	ug/l	93
19) Methyl tert-butyl Ether	3.111	73	427254	101.480	ug/l	97
20) Methylene Chloride	2.788	84	140317	101.850	ug/l	93
21) trans-1,2-Dichloroethene	3.093	96	139080	102.594	ug/l	96
22) Diisopropyl ether	3.751	45	420126	102.802	ug/l	89
23) Vinyl Acetate	3.714	43	1723170	527.850	ug/l	96
24) 1,1-Dichloroethane	3.605	63	248141	100.417	ug/l	99
25) 2-Butanone	4.543	43	353741	494.285	ug/l	98
26) 2,2-Dichloropropane	4.470	77	228643	102.510	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	163444	103.308	ug/l	98
28) Bromochloromethane	4.885	49	108536	105.928	ug/l	86
29) Tetrahydrofuran	4.989	42	216543	505.219	ug/l	93
30) Chloroform	5.080	83	264966	100.362	ug/l	98
31) Cyclohexane	5.464	56	217717	106.419	ug/l	91
32) 1,1,1-Trichloroethane	5.373	97	248018	101.932	ug/l	98
36) 1,1-Dichloropropene	5.684	75	183932	100.953	ug/l	99
37) Ethyl Acetate	4.702	43	153844	101.872	ug/l	99
38) Carbon Tetrachloride	5.665	117	226976	100.976	ug/l	99
39) Methylcyclohexane	7.366	83	235208	109.312	ug/l	95
40) Benzene	6.025	78	535407	101.216	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048233.D
Acq On : 20 Oct 2025 12:22
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Oct 25 03:35:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.909	41	83790	105.653	ug/l		97
42) 1,2-Dichloroethane	6.074	62	198348	101.616	ug/l		99
43) Isopropyl Acetate	6.324	43	256067	103.227	ug/l		95
44) Trichloroethene	7.110	130	142779	102.221	ug/l		99
45) 1,2-Dichloropropane	7.415	63	130188	103.516	ug/l		96
46) Dibromomethane	7.567	93	98105	100.126	ug/l		94
47) Bromodichloromethane	7.805	83	215302	101.770	ug/l		99
48) Methyl methacrylate	7.677	41	131454	105.017	ug/l		95
49) 1,4-Dioxane	7.647	88	35972	2175.223	ug/l		89
51) 4-Methyl-2-Pentanone	8.561	43	720980	504.097	ug/l		94
52) Toluene	8.701	92	341597	101.651	ug/l		99
53) t-1,3-Dichloropropene	8.963	75	215736	105.820	ug/l		99
54) cis-1,3-Dichloropropene	8.354	75	231037	105.038	ug/l		94
55) 1,1,2-Trichloroethane	9.134	97	124910	99.952	ug/l		98
56) Ethyl methacrylate	9.104	69	196699	107.610	ug/l		94
57) 1,3-Dichloropropane	9.293	76	214853	100.650	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.226	63	505448	512.470	ug/l		96
59) 2-Hexanone	9.415	43	509398	510.781	ug/l		95
60) Dibromochloromethane	9.506	129	166167	98.928	ug/l		100
61) 1,2-Dibromoethane	9.591	107	134662	101.077	ug/l		97
64) Tetrachloroethene	9.256	164	121163	99.215	ug/l		97
65) Chlorobenzene	10.061	112	375532	102.048	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.146	131	140599	104.022	ug/l		97
67) Ethyl Benzene	10.177	91	656925	104.850	ug/l		98
68) m/p-Xylenes	10.286	106	490879	210.869	ug/l		100
69) o-Xylene	10.622	106	236648	105.297	ug/l		100
70) Styrene	10.640	104	407916	106.594	ug/l		99
71) Bromoform	10.780	173	109613	101.467	ug/l	#	98
73) Isopropylbenzene	10.945	105	624767	106.098	ug/l		99
74) N-amyl acetate	10.829	43	228080	109.195	ug/l		95
75) 1,1,2,2-Tetrachloroethane	11.195	83	164207	102.114	ug/l		99
76) 1,2,3-Trichloropropane	11.219	75	192703	147.394	ug/l		78
77) Bromobenzene	11.183	156	153619	104.042	ug/l		93
78) n-propylbenzene	11.286	91	732684	107.464	ug/l		98
79) 2-Chlorotoluene	11.347	91	434217	105.044	ug/l		100
80) 1,3,5-Trimethylbenzene	11.432	105	519549	106.616	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	59059	109.902	ug/l		98
82) 4-Chlorotoluene	11.439	91	506861	103.293	ug/l		98
83) tert-Butylbenzene	11.695	119	529264	105.707	ug/l		98
84) 1,2,4-Trimethylbenzene	11.731	105	523474	107.638	ug/l		99
85) sec-Butylbenzene	11.871	105	639904	106.228	ug/l		100
86) p-Isopropyltoluene	11.987	119	548119	105.271	ug/l		98
87) 1,3-Dichlorobenzene	11.951	146	281617	101.174	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	277908	96.377	ug/l		98
89) n-Butylbenzene	12.316	91	495486	104.552	ug/l		99
90) Hexachloroethane	12.518	117	107057	104.121	ug/l		93
91) 1,2-Dichlorobenzene	12.316	146	261022	99.880	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	36087	110.555	ug/l		97
93) 1,2,4-Trichlorobenzene	13.566	180	179562	101.602	ug/l		100
94) Hexachlorobutadiene	13.706	225	68645	103.582	ug/l		98
95) Naphthalene	13.755	128	511355	109.211	ug/l		99
96) 1,2,3-Trichlorobenzene	13.944	180	169248	104.362	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048233.D
Acq On : 20 Oct 2025 12:22
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Oct 25 03:35:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

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

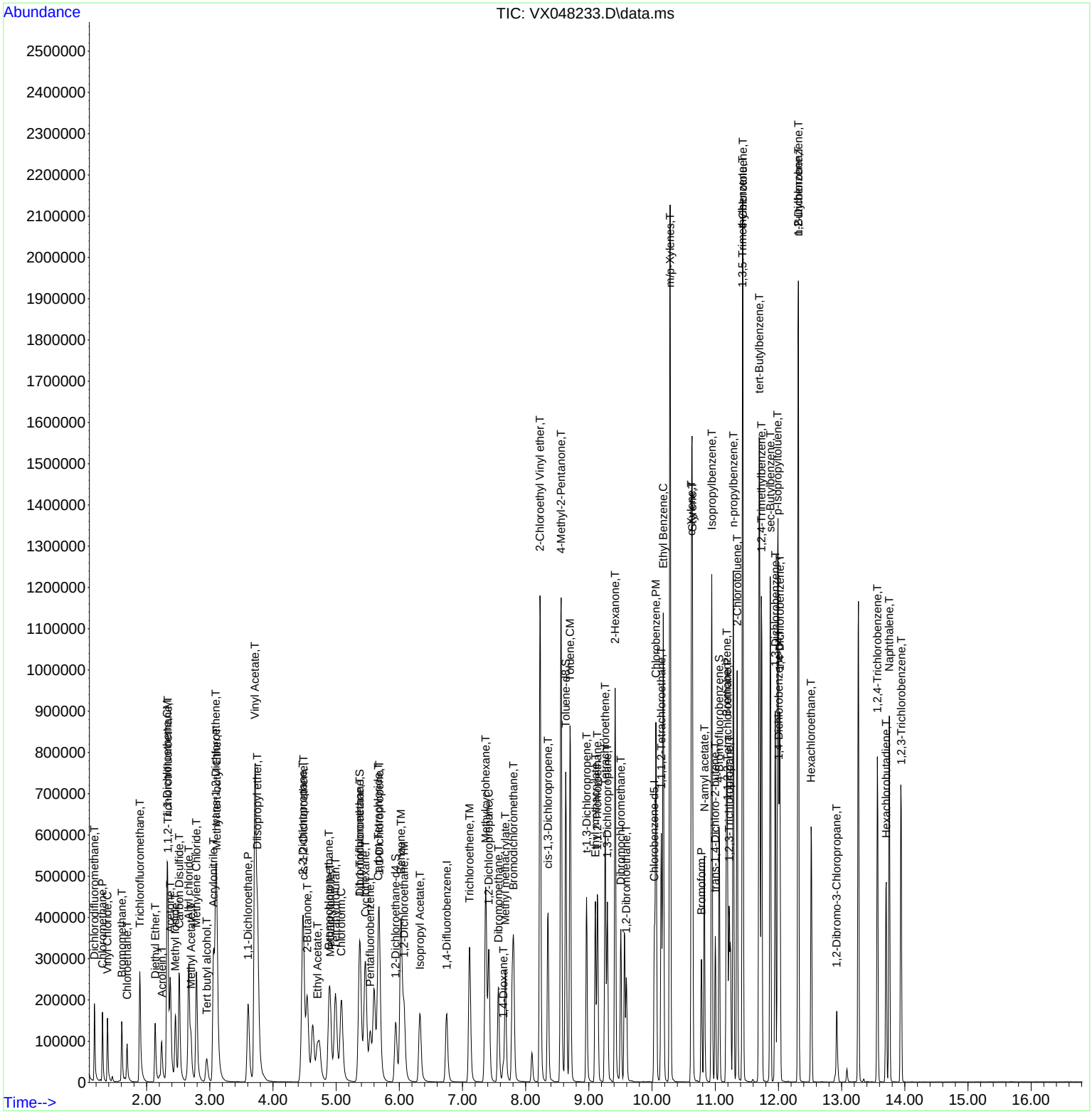
(#) = qualifier out of range (m) = manual integration (+) = signals summed

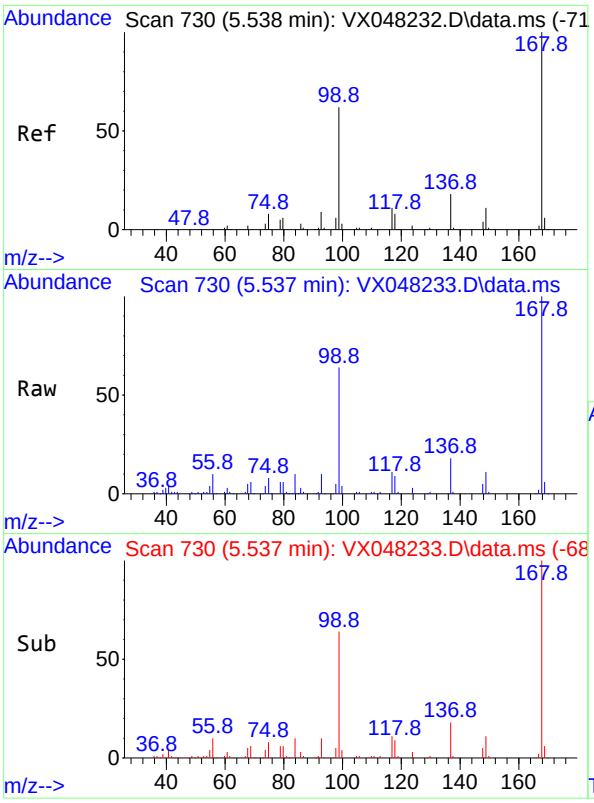
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048233.D
Acq On : 20 Oct 2025 12:22
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Oct 25 03:35:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration



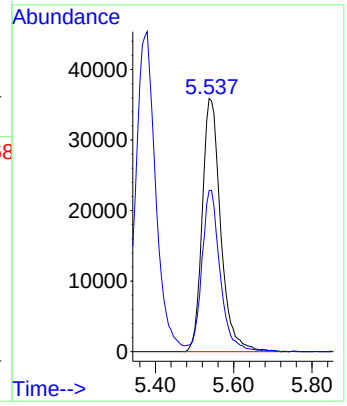


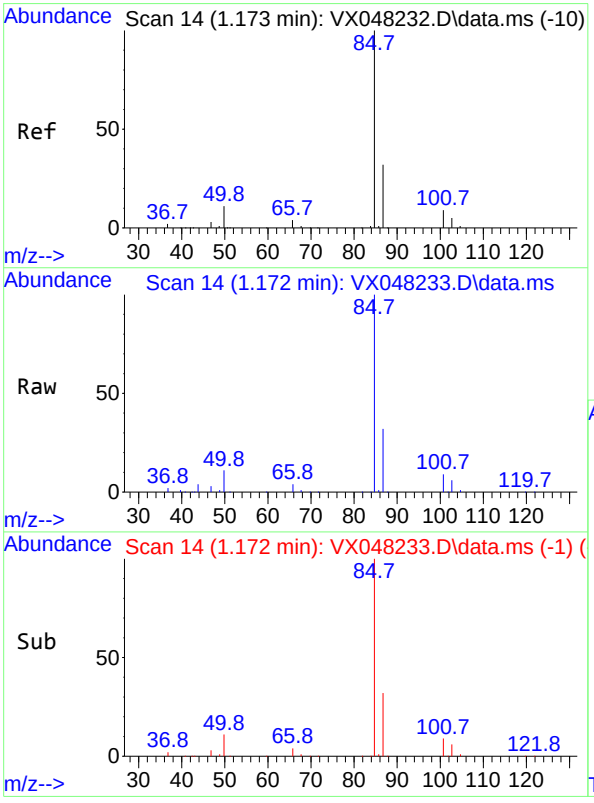
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 117551

Ion	Ratio	Lower	Upper
168	100		
99	63.4	46.4	69.6

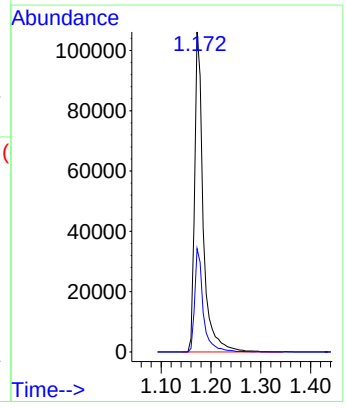


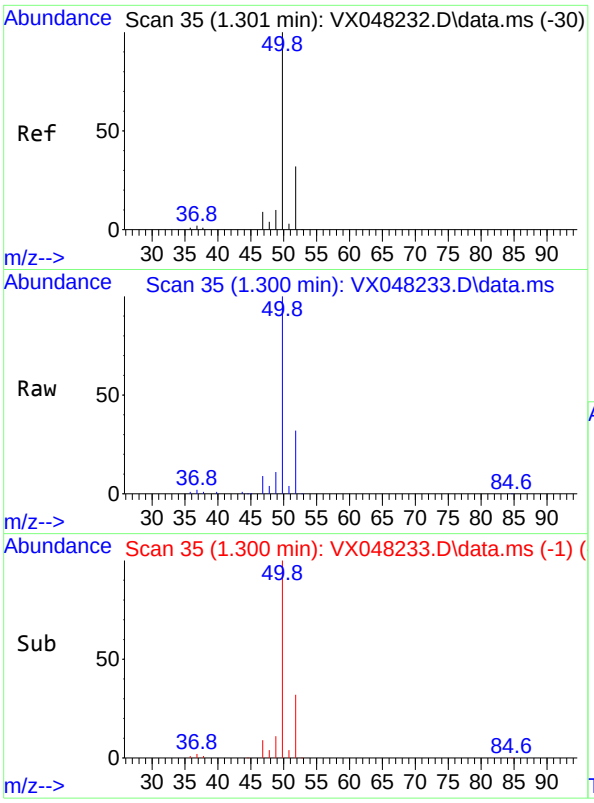


#2
Dichlorodifluoromethane
Concen: 105.118 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 85 Resp: 127029

Ion	Ratio	Lower	Upper
85	100		
87	32.3	15.3	45.9



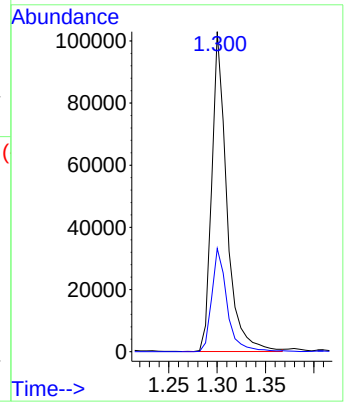


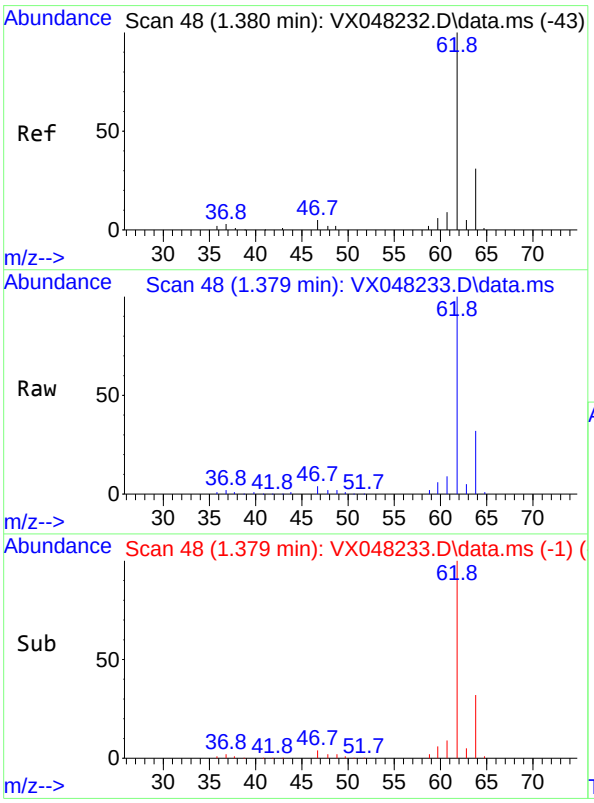
#3
Chloromethane
Concen: 99.201 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 111895

Ion	Ratio	Lower	Upper
50	100		
52	32.2	25.9	38.9

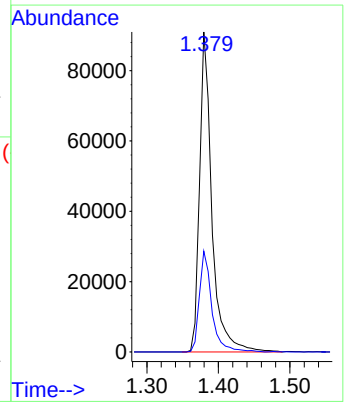


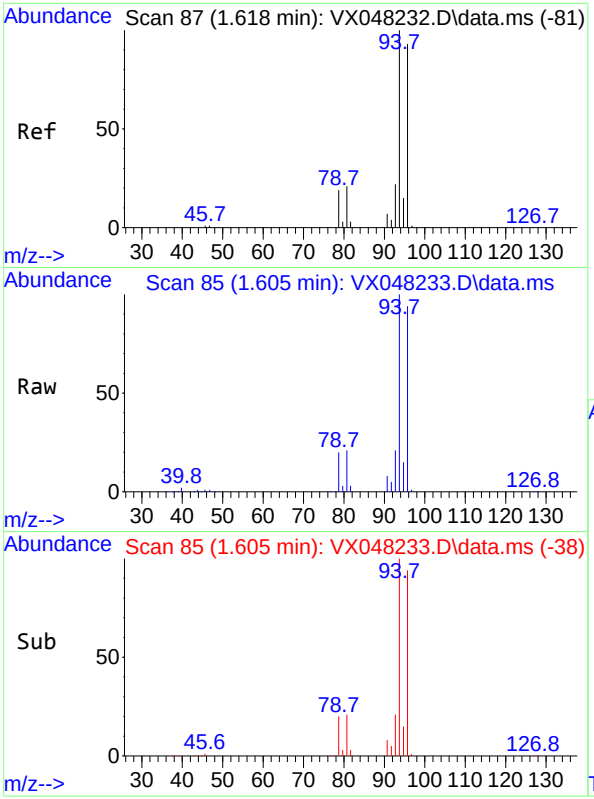


#4
Vinyl Chloride
Concen: 103.938 ug/l
RT: 1.379 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 62 Resp: 108564

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.1	37.7



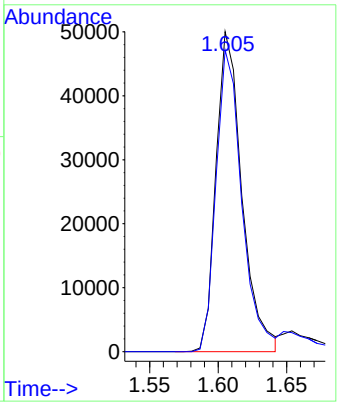


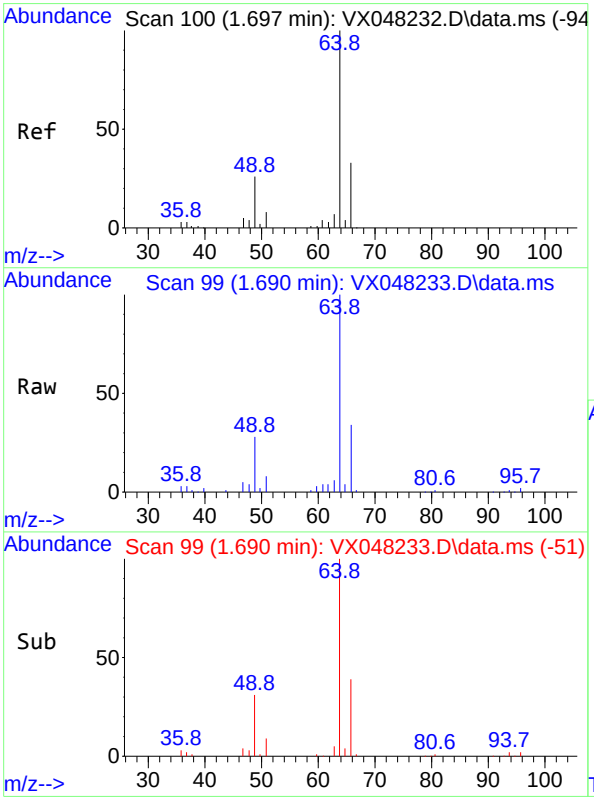
#5
Bromomethane
Concen: 92.758 ug/l
RT: 1.605 min Scan# 8
Delta R.T. -0.013 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 65752

Ion	Ratio	Lower	Upper
94	100		
96	94.3	76.0	114.0

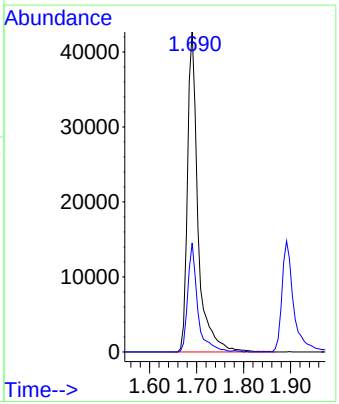


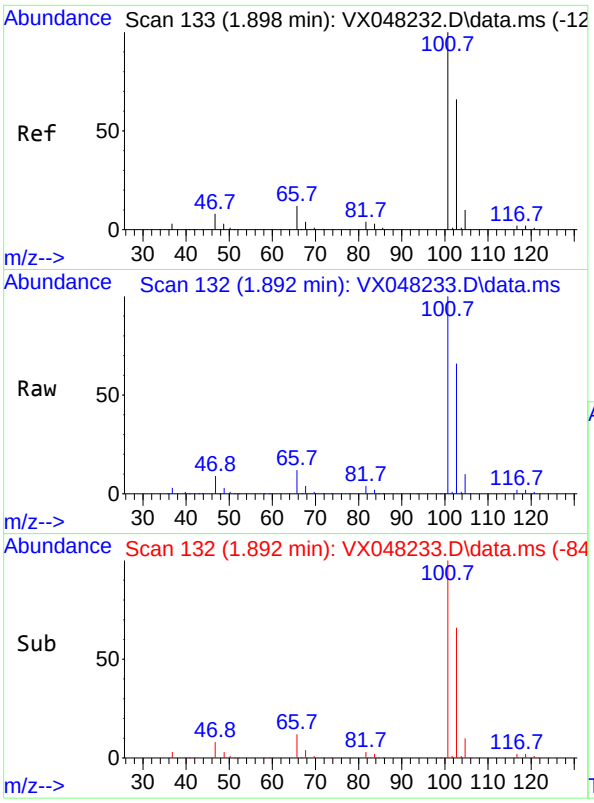


#6
Chloroethane
Concen: 108.072 ug/l
RT: 1.690 min Scan# 99
Delta R.T. -0.007 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 64 Resp: 66332

Ion	Ratio	Lower	Upper
64	100		
66	34.0	23.9	35.9



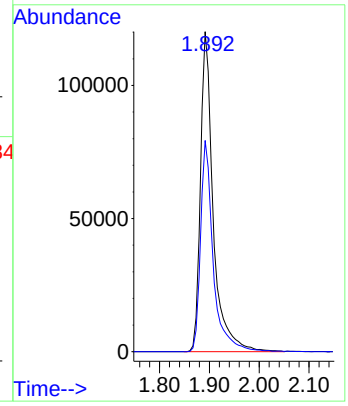


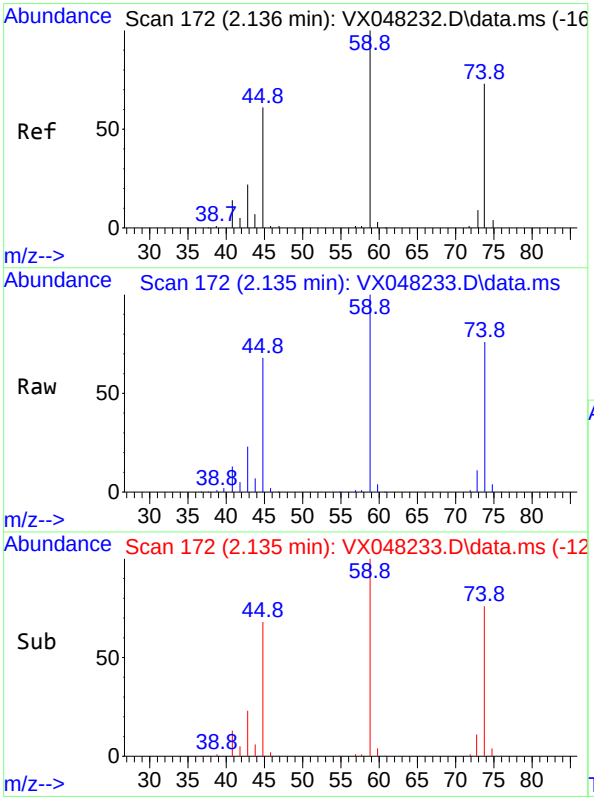
#7
Trichlorofluoromethane
Concen: 106.479 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.007 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 213301

Ion	Ratio	Lower	Upper
101	100		
103	66.0	51.6	77.4

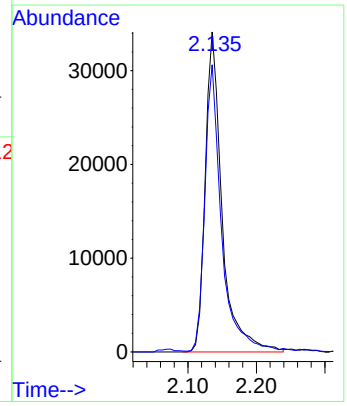


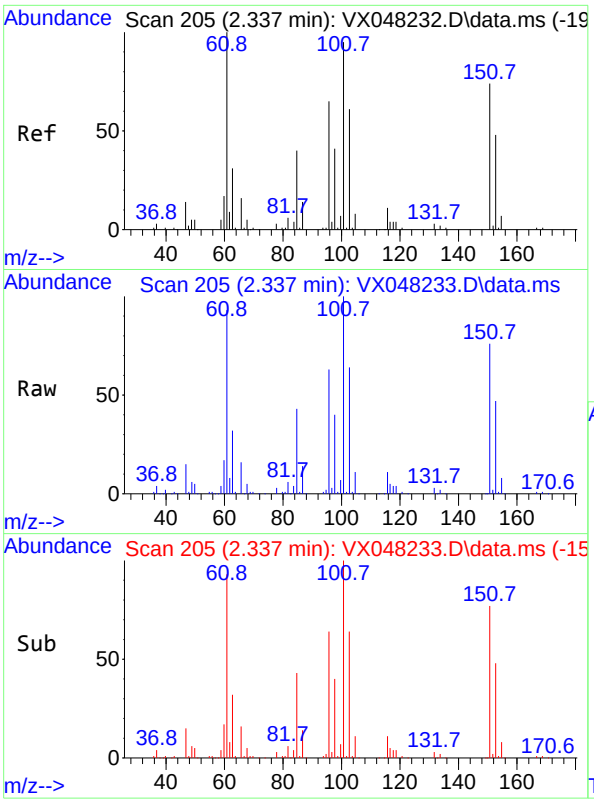


#8
Diethyl Ether
Concen: 103.435 ug/l
RT: 2.135 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 74 Resp: 58302

Ion	Ratio	Lower	Upper
74	100		
45	88.0	50.0	149.8



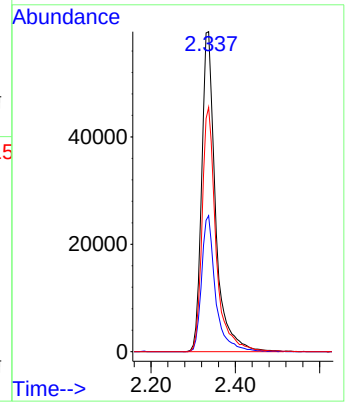


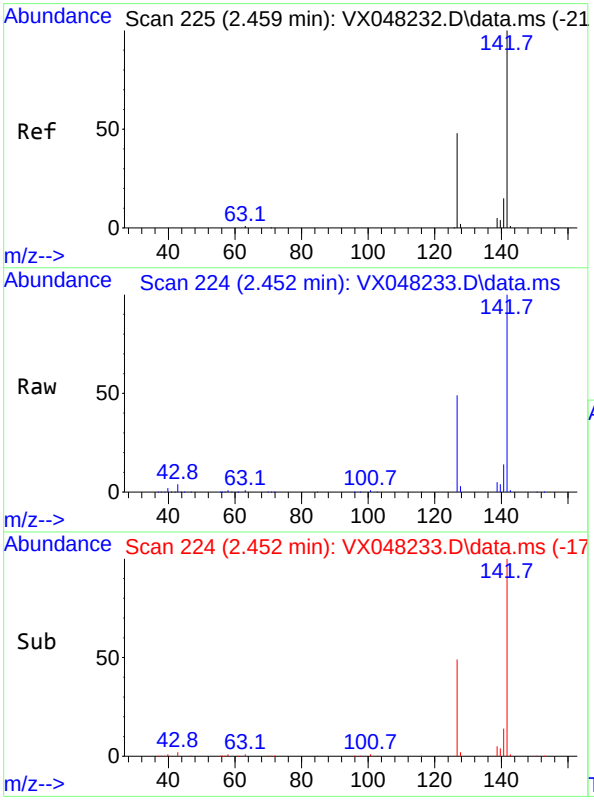
#9
1,1,2-Trichlorotrifluoroethane
Concen: 107.961 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 136951

Ion	Ratio	Lower	Upper
101	100		
85	42.9	35.6	53.4
151	76.5	58.0	87.0

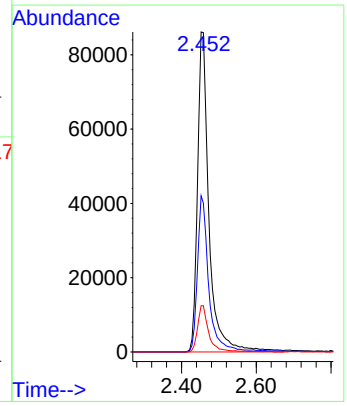


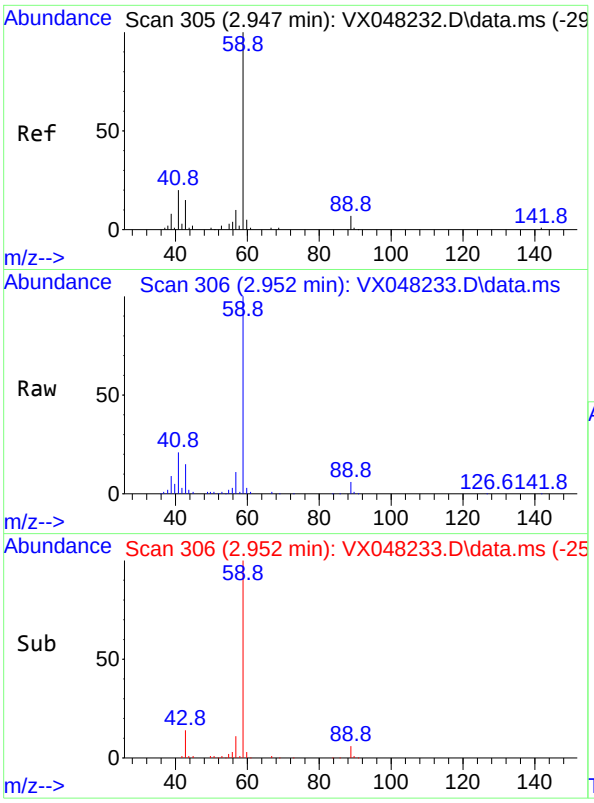


#10
Methyl Iodide
Concen: 115.192 ug/l
RT: 2.452 min Scan# 224
Delta R.T. -0.007 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:142 Resp: 183697

Ion	Ratio	Lower	Upper
142	100		
127	47.6	38.5	57.7
141	14.1	11.6	17.4



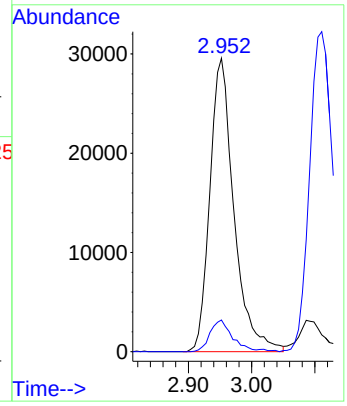


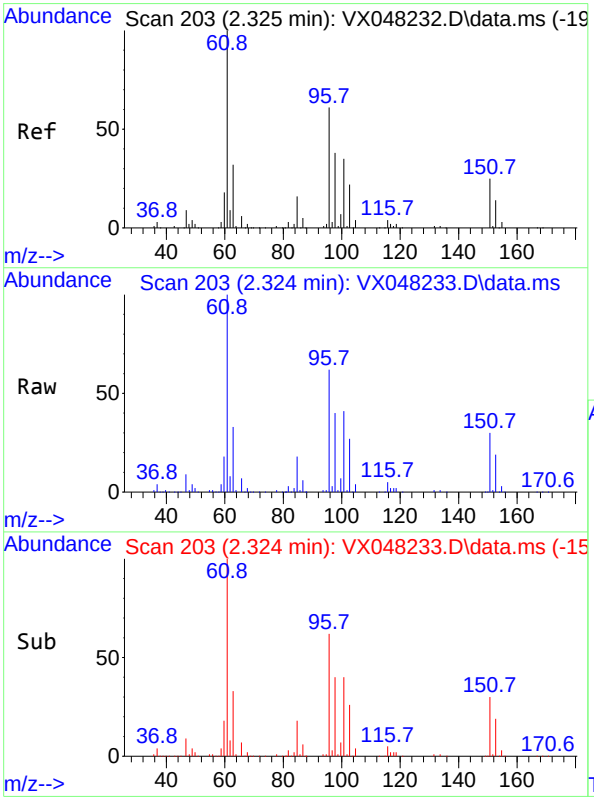
#11
Tert butyl alcohol
Concen: 478.391 ug/l
RT: 2.952 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 59 Resp: 78284

Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.2	12.4

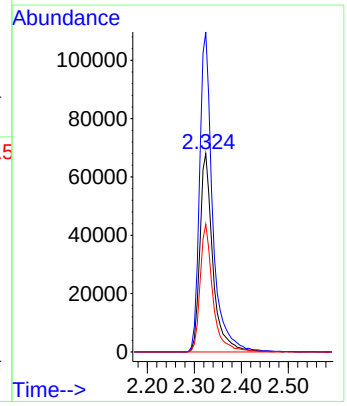


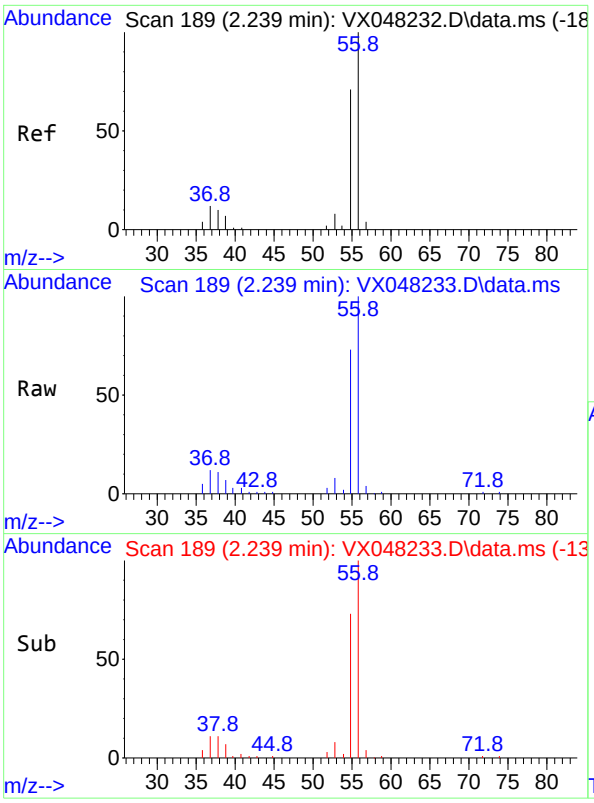


#12
1,1-Dichloroethene
Concen: 106.271 ug/l
RT: 2.324 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 96 Resp: 131152

Ion	Ratio	Lower	Upper
96	100		
61	161.2	139.0	208.6
98	64.4	52.4	78.6



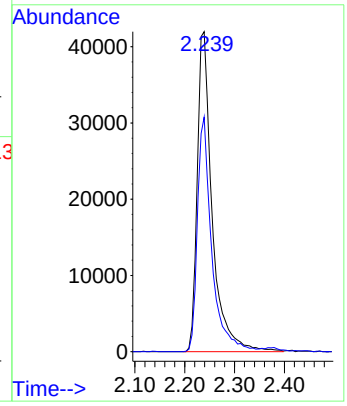


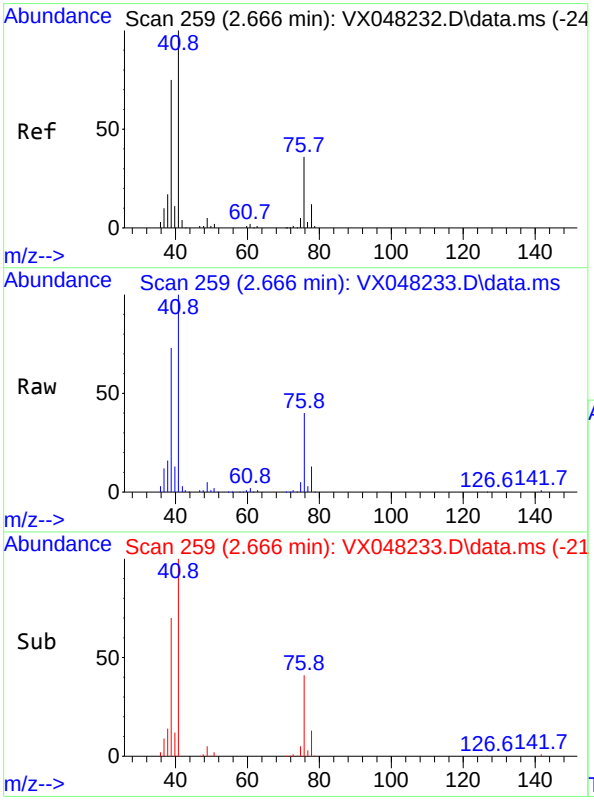
#13
Acrolein
Concen: 522.748 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 87244

Ion	Ratio	Lower	Upper
56	100		
55	70.2	56.1	84.1

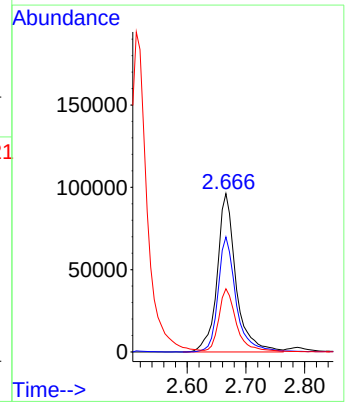


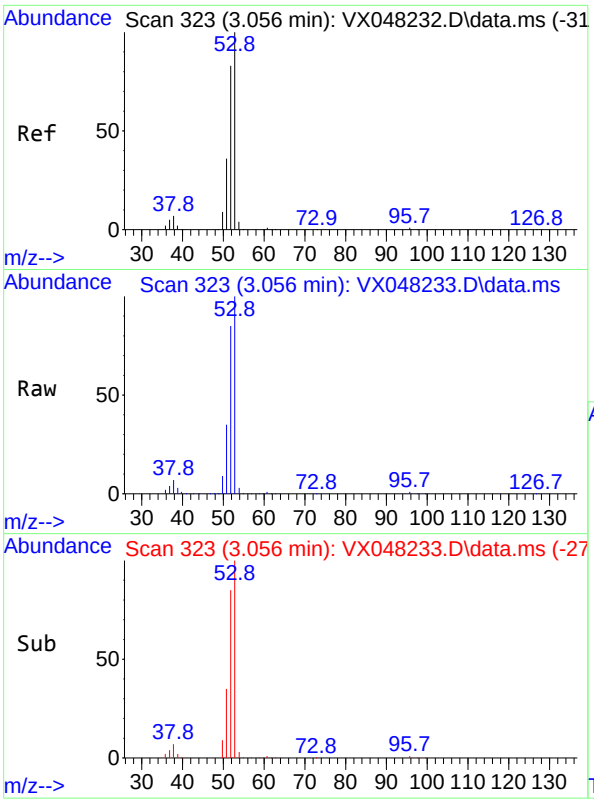


#14
Allyl chloride
Concen: 104.584 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 41 Resp: 214290

Ion	Ratio	Lower	Upper
41	100		
39	69.5	56.0	84.0
76	37.6	27.5	41.3



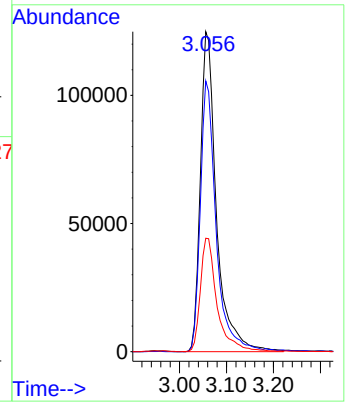


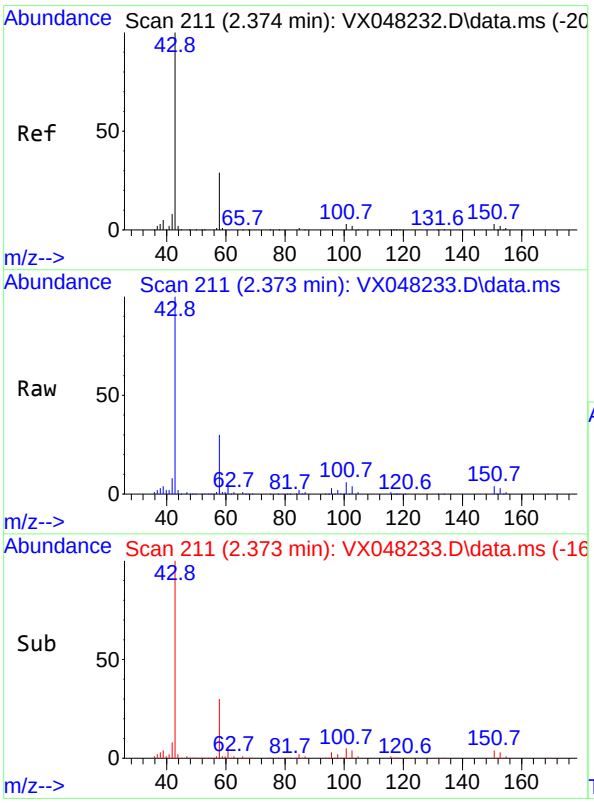
#15
Acrylonitrile
Concen: 505.062 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 298022

Ion	Ratio	Lower	Upper
53	100		
52	82.7	66.1	99.1
51	37.0	29.0	43.4

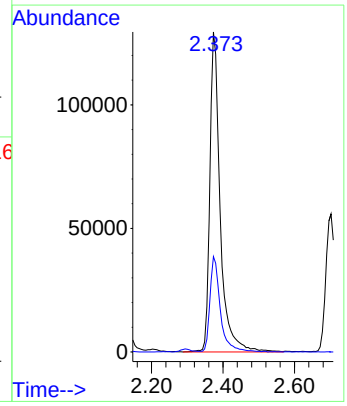


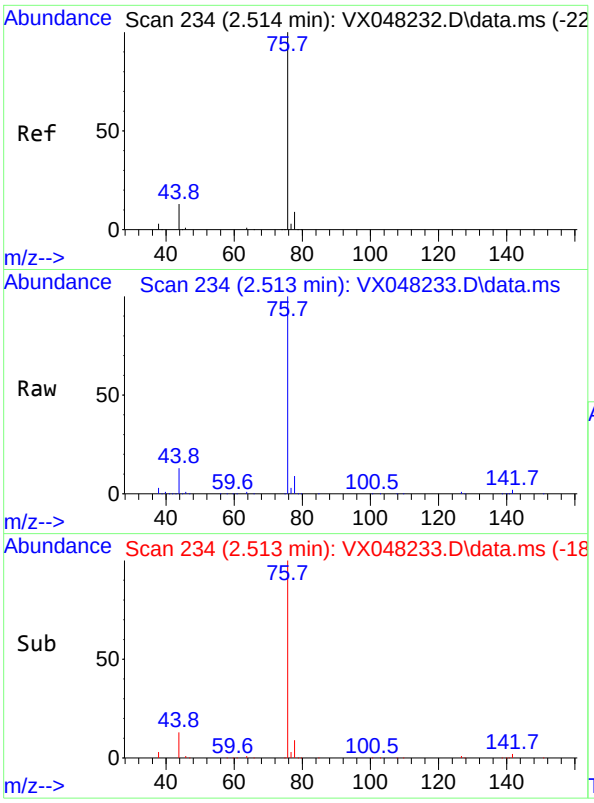


#16
Acetone
Concen: 459.946 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 43 Resp: 260058

Ion	Ratio	Lower	Upper
43	100		
58	29.8	23.4	35.2



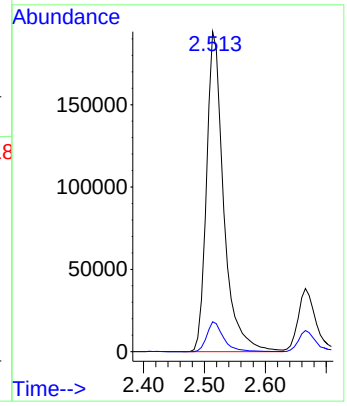


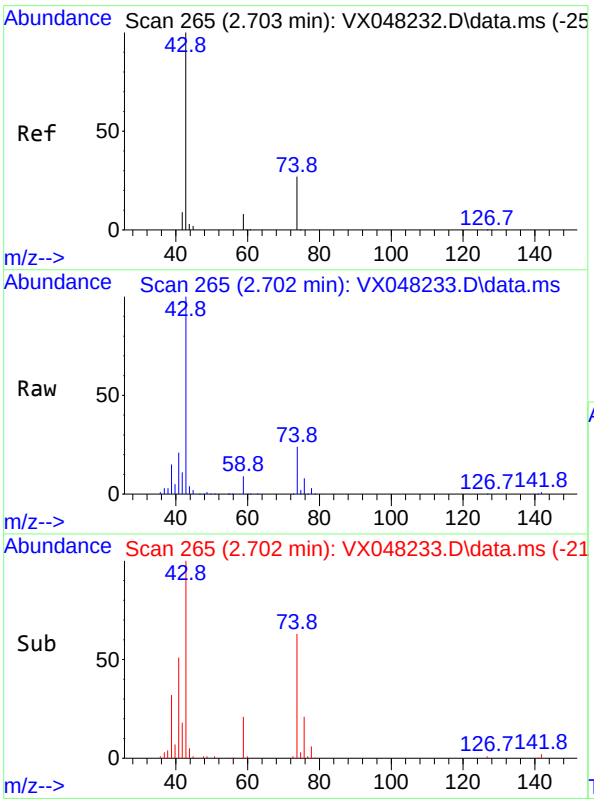
#17
Carbon Disulfide
Concen: 97.731 ug/l
RT: 2.513 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 380127

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.1	10.7

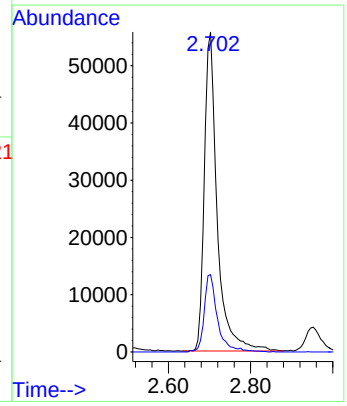


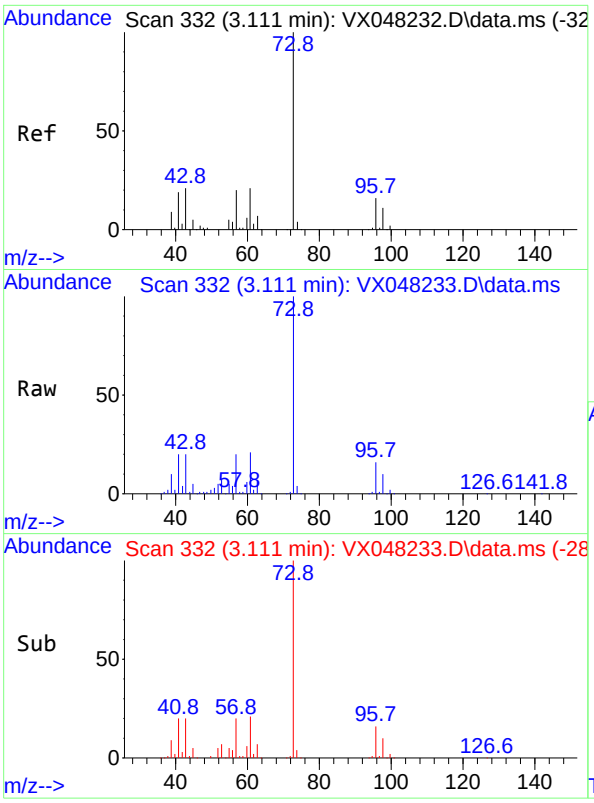


#18
Methyl Acetate
Concen: 102.405 ug/l
RT: 2.702 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 43 Resp: 120920

Ion	Ratio	Lower	Upper
43	100		
74	25.0	17.5	26.3



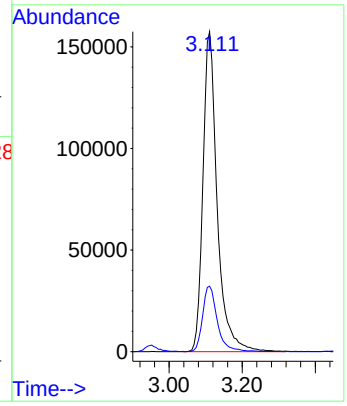


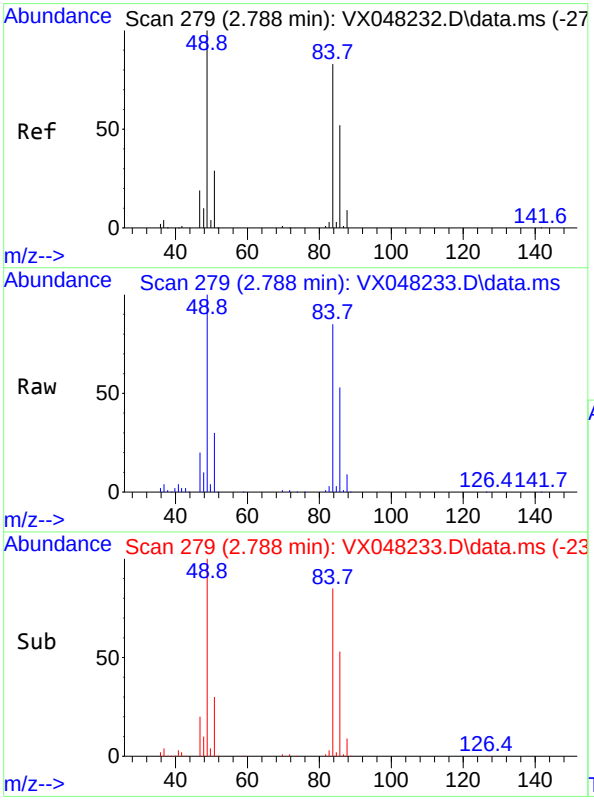
#19
Methyl tert-butyl Ether
Concen: 101.480 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 427254

Ion	Ratio	Lower	Upper
73	100		
57	20.5	17.7	26.5

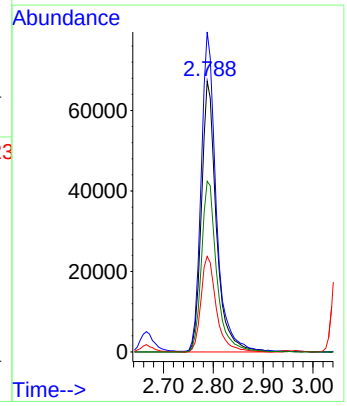


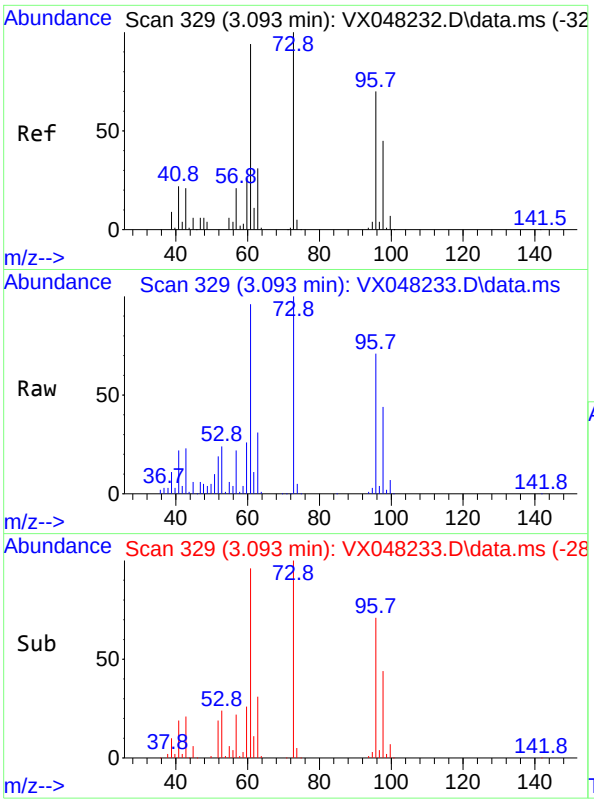


#20
Methylene Chloride
Concen: 101.850 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 84 Resp: 140317

Ion	Ratio	Lower	Upper
84	100		
49	117.9	104.1	156.1
51	35.3	31.3	46.9
86	63.0	51.3	76.9



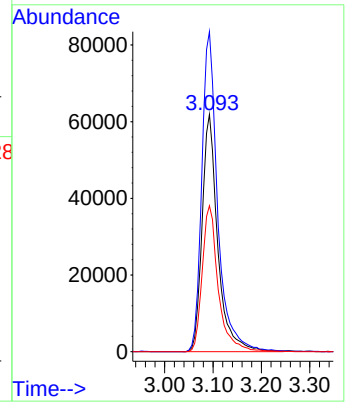


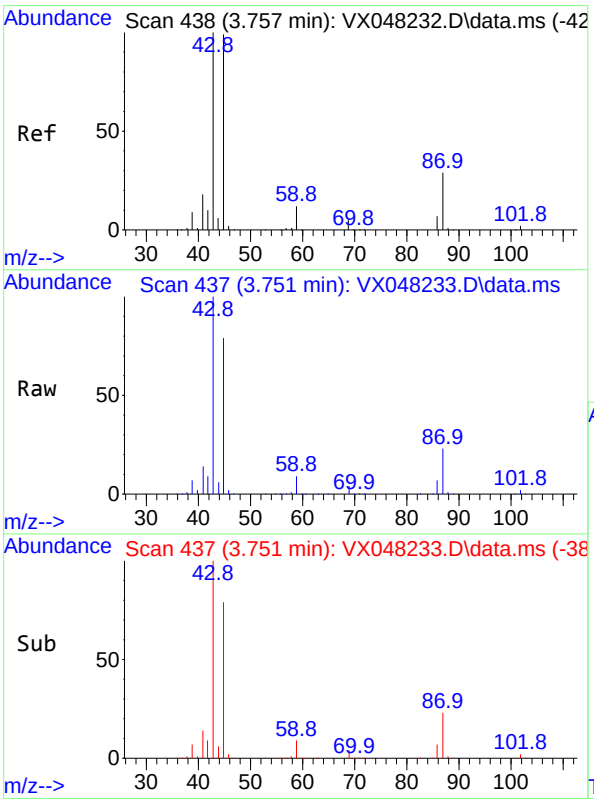
#21
trans-1,2-Dichloroethene
Concen: 102.594 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 139080

Ion	Ratio	Lower	Upper
96	100		
61	134.9	111.9	167.9
98	61.5	51.2	76.8

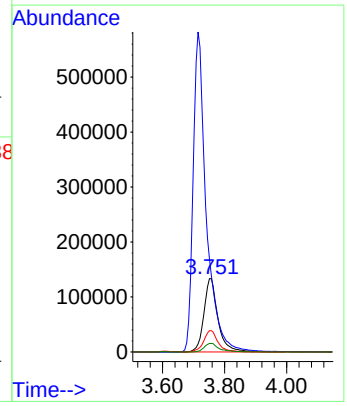


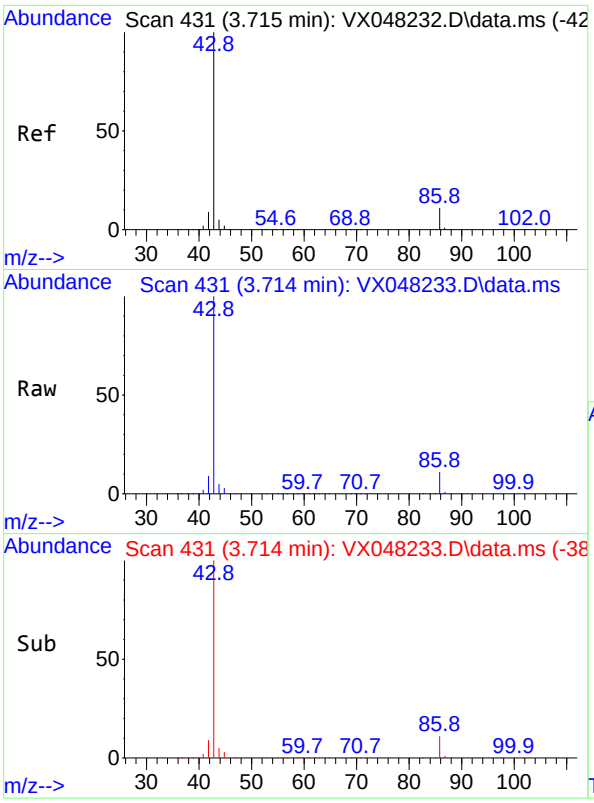


#22
Diisopropyl ether
Concen: 102.802 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 45 Resp: 420126

Ion	Ratio	Lower	Upper
45	100		
43	126.6	89.8	134.8
87	29.0	20.6	31.0
59	11.6	9.1	13.7



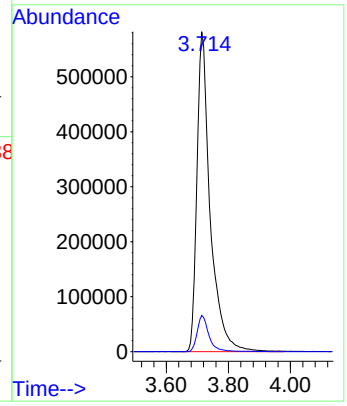


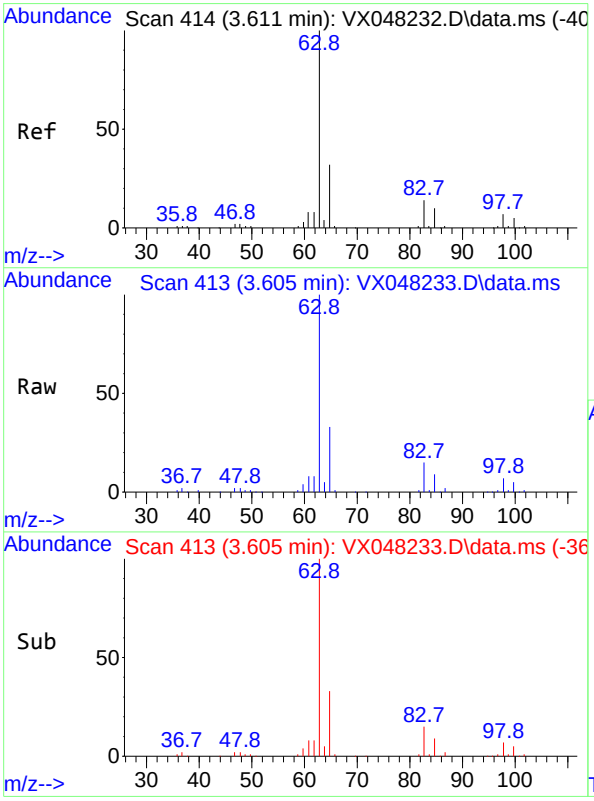
#23
Vinyl Acetate
Concen: 527.850 ug/l
RT: 3.714 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1723170

Ion	Ratio	Lower	Upper
43	100		
86	11.3	7.9	11.9

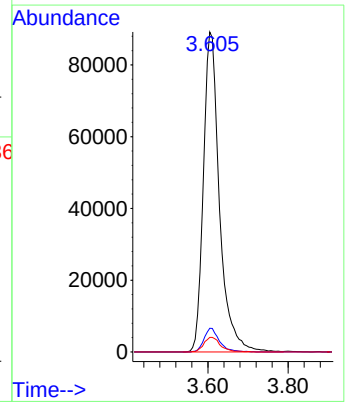


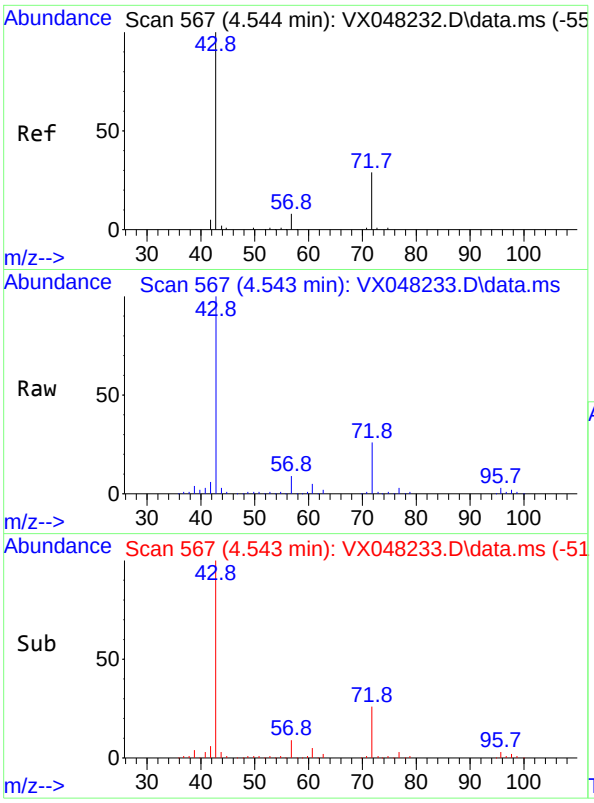


#24
1,1-Dichloroethane
Concen: 100.417 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 63 Resp: 248141

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.5	10.6
100	4.6	2.1	6.3



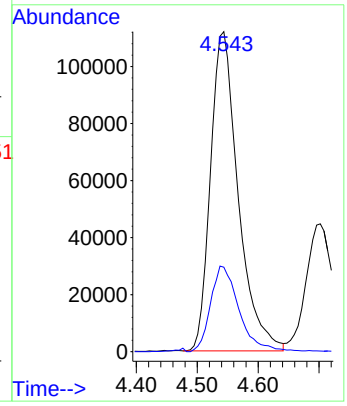


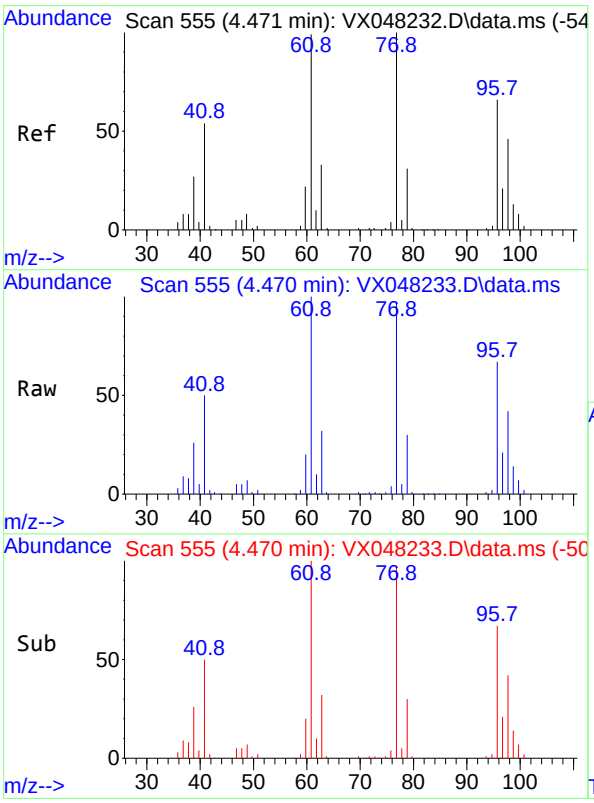
#25
2-Butanone
Concen: 494.285 ug/l
RT: 4.543 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 353741

Ion	Ratio	Lower	Upper
43	100		
72	25.8	19.9	29.9

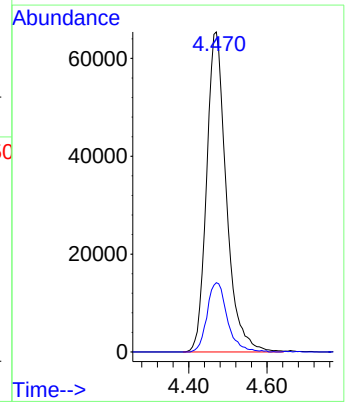


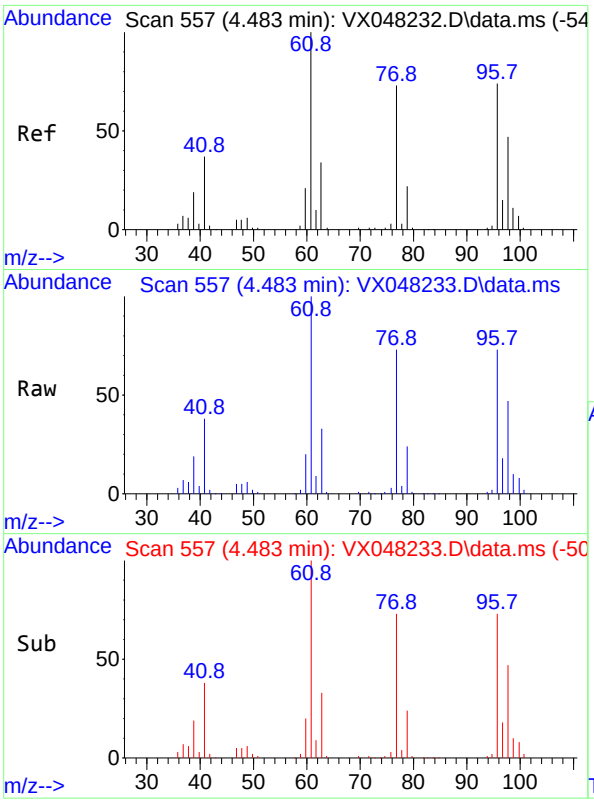


#26
2,2-Dichloropropane
Concen: 102.510 ug/l
RT: 4.470 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 77 Resp: 228643

Ion	Ratio	Lower	Upper
77	100		
97	22.2	11.1	33.3



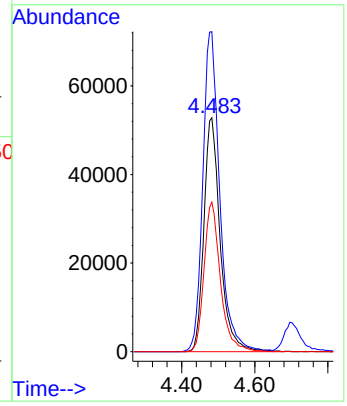


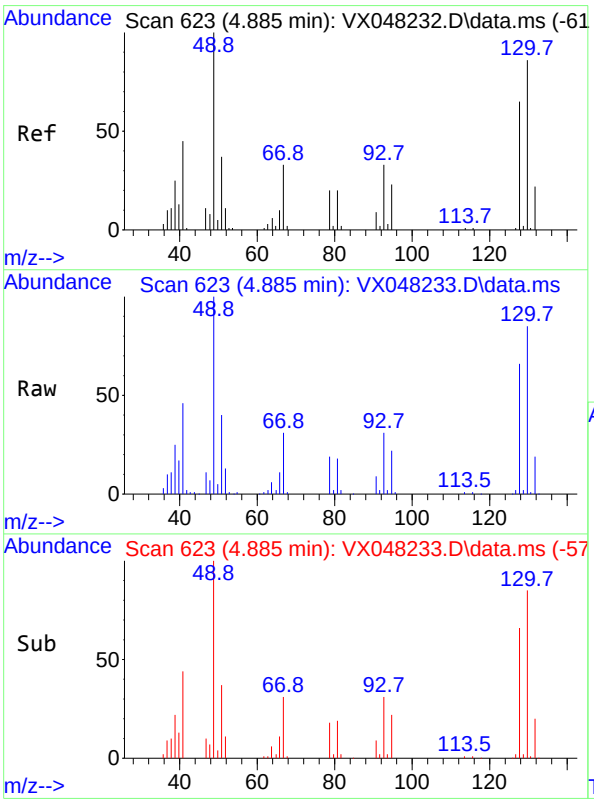
#27
cis-1,2-Dichloroethene
Concen: 103.308 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 163444

Ion	Ratio	Lower	Upper
96	100		
61	143.1	0.0	294.2
98	64.3	0.0	128.4

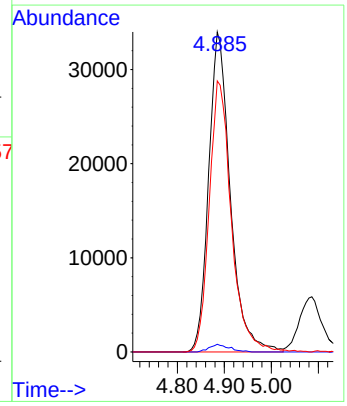


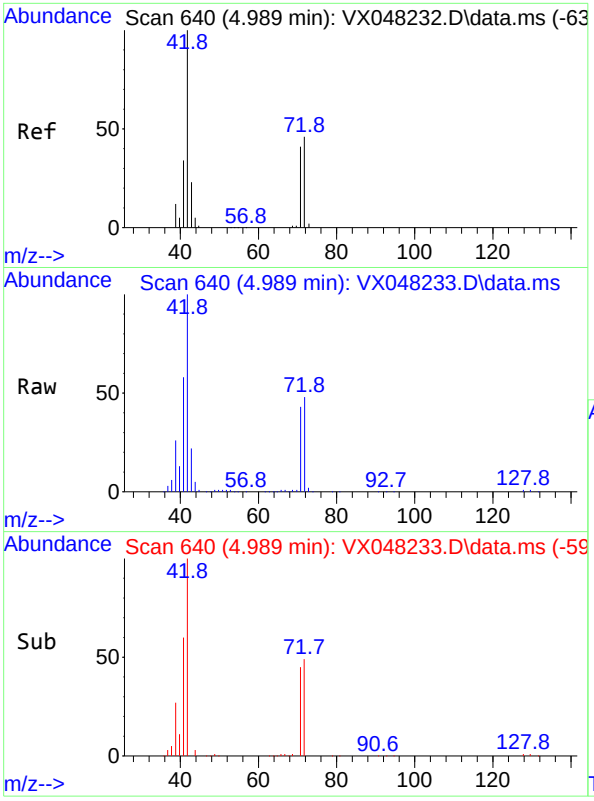


#28
Bromochloromethane
Concen: 105.928 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 49 Resp: 108536

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.4
130	86.4	59.3	88.9



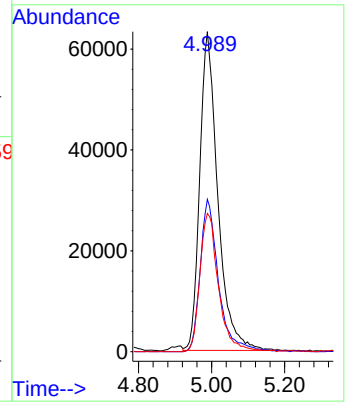


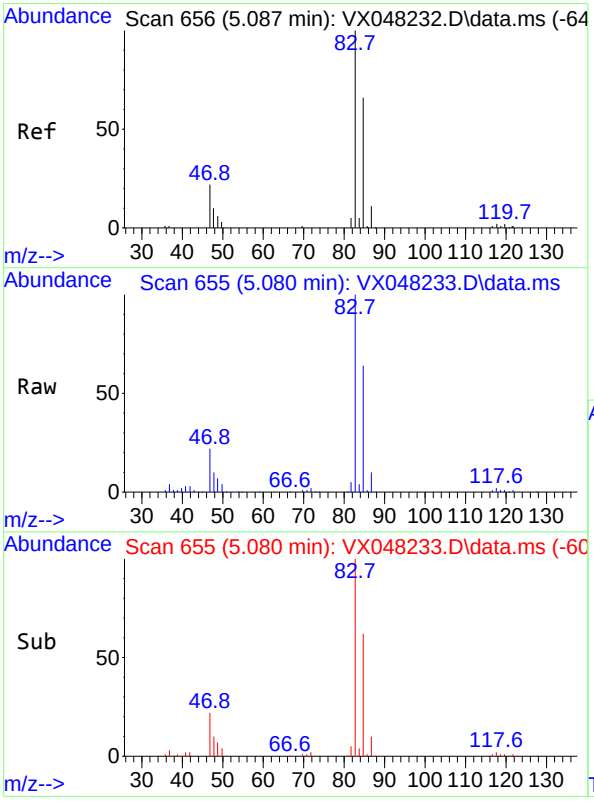
#29
Tetrahydrofuran
Concen: 505.219 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 42 Resp: 216543

Ion	Ratio	Lower	Upper
42	100		
72	48.6	35.3	52.9
71	44.5	32.2	48.4

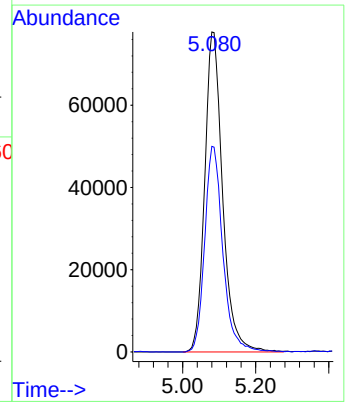


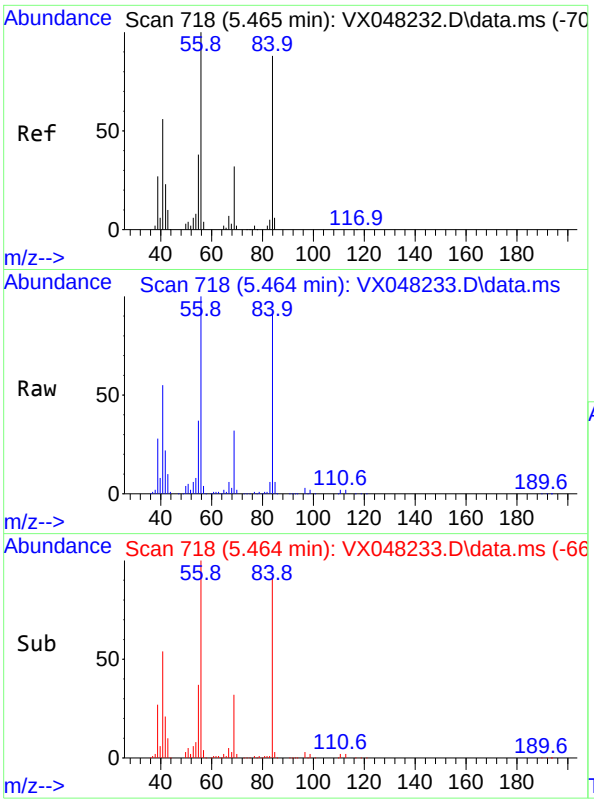


#30
Chloroform
Concen: 100.362 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 83 Resp: 264966

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.1	75.1



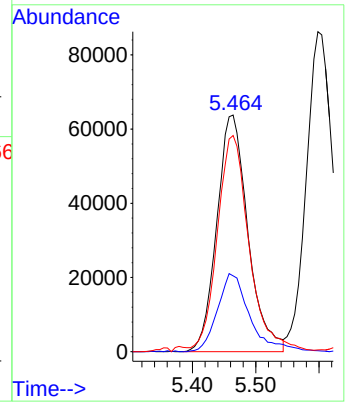


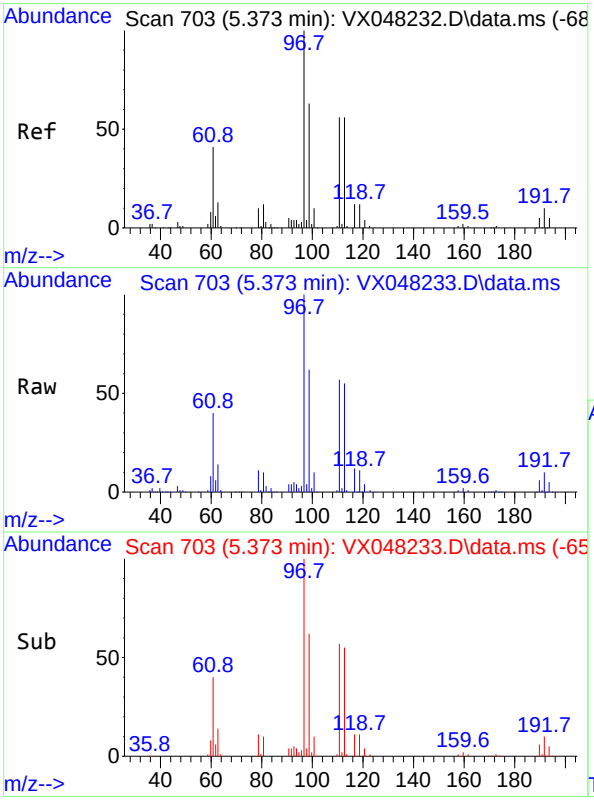
#31
Cyclohexane
Concen: 106.419 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 217717

Ion	Ratio	Lower	Upper
56	100		
69	32.1	23.0	34.6
84	89.2	64.6	97.0

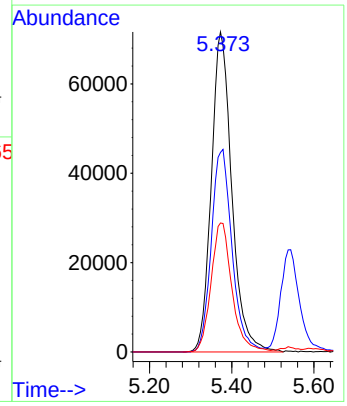


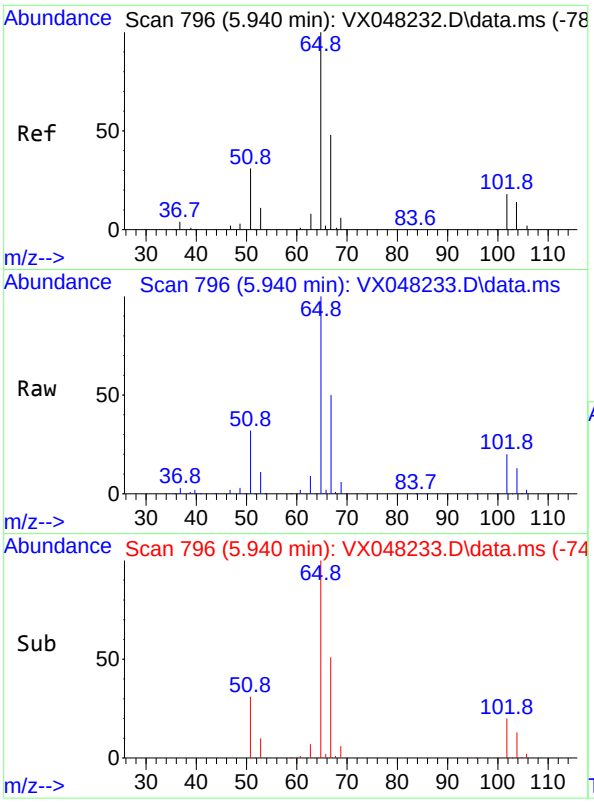


#32
1,1,1-Trichloroethane
Concen: 101.932 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 97 Resp: 248018

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.7	77.5
61	41.2	34.8	52.2



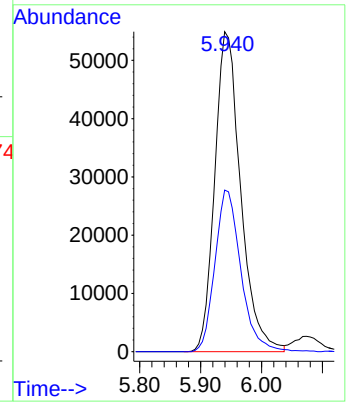


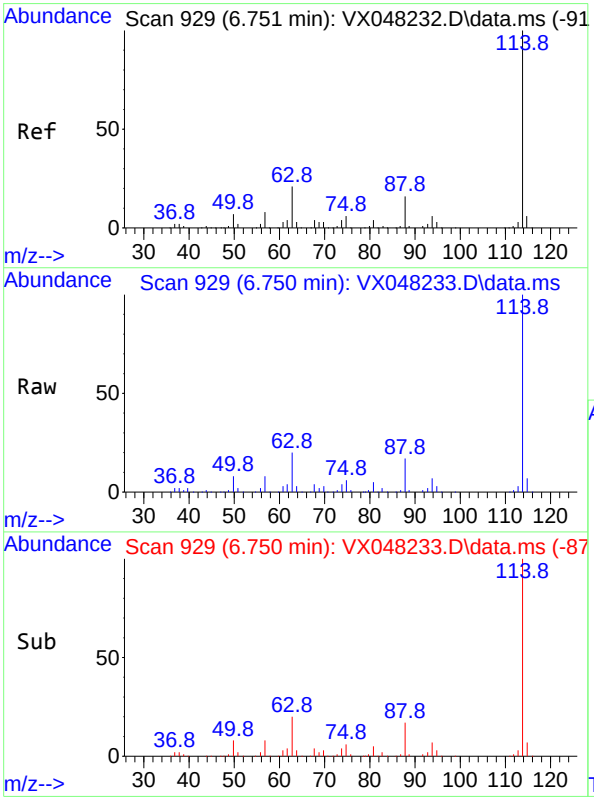
#33
1,2-Dichloroethane-d4
Concen: 98.406 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 162188

Ion	Ratio	Lower	Upper
65	100		
67	50.6	0.0	105.0

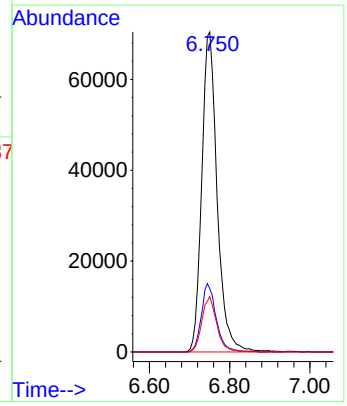


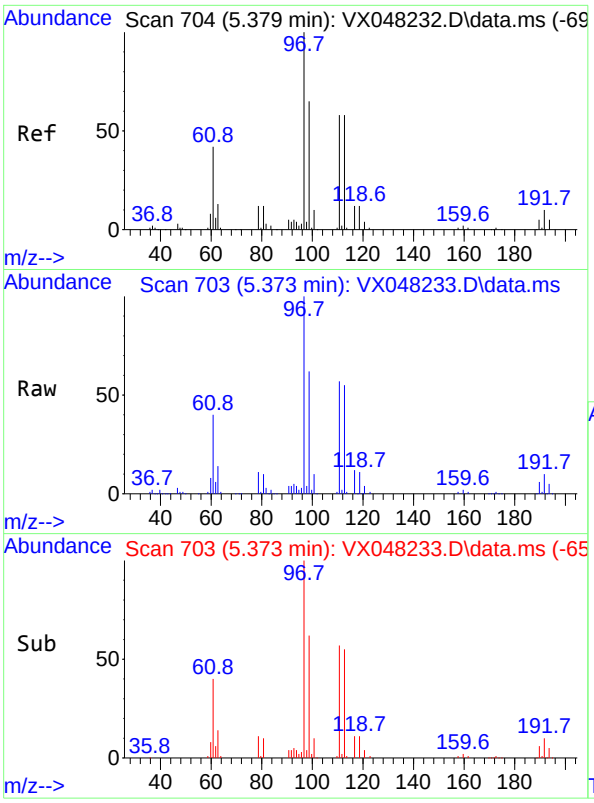


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.750 min Scan# 929
Delta R.T. 0.005 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:114 Resp: 187766

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	43.2
88	17.3	0.0	33.6



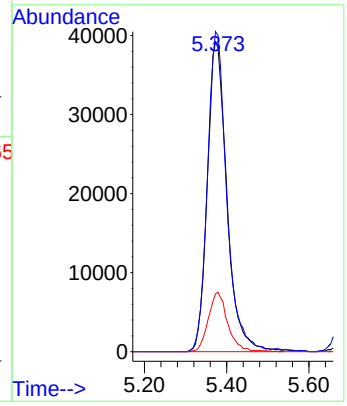


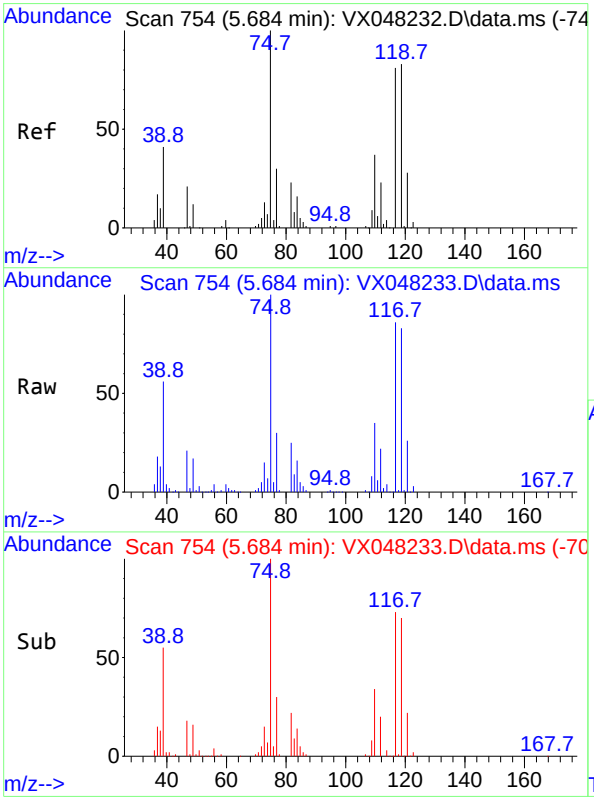
#35
Dibromofluoromethane
Concen: 101.351 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:113 Resp: 129919

Ion	Ratio	Lower	Upper
113	100		
111	101.5	82.2	123.4
192	19.0	15.1	22.7

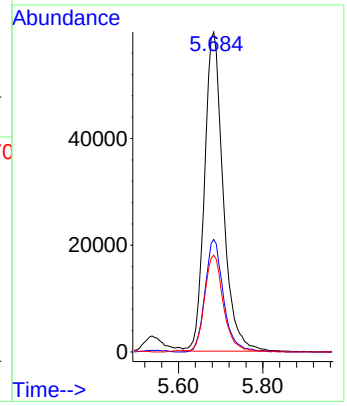


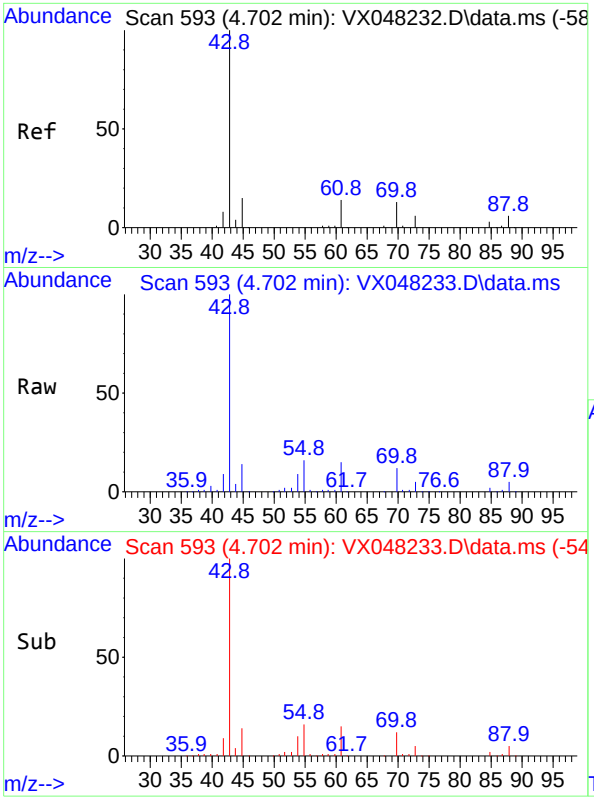


#36
1,1-Dichloropropene
Concen: 100.953 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 75 Resp: 183932

Ion	Ratio	Lower	Upper
75	100		
110	35.1	17.7	53.1
77	30.9	24.3	36.5



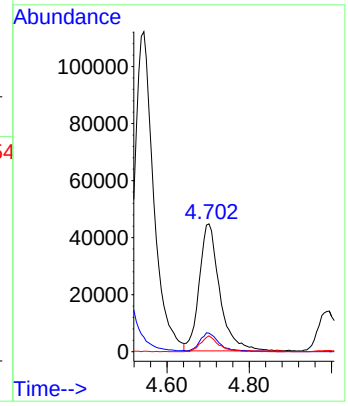


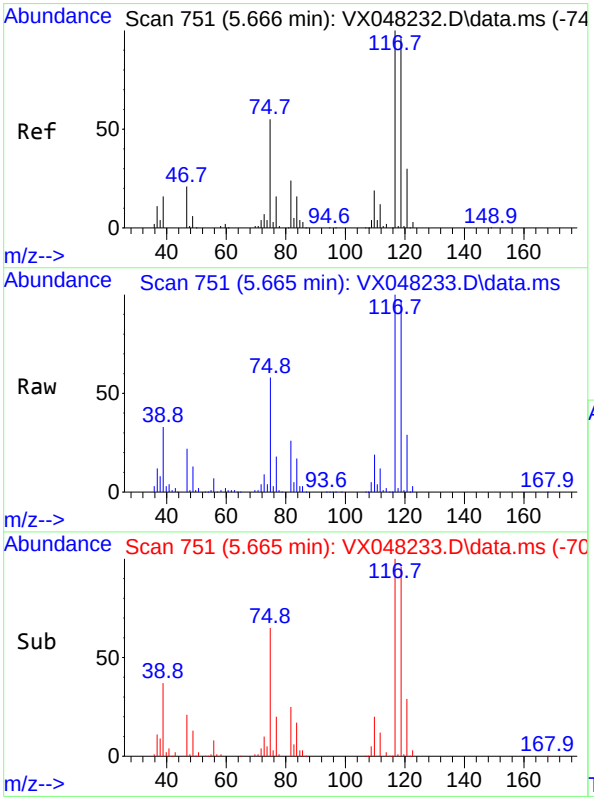
#37
Ethyl Acetate
Concen: 101.872 ug/l
RT: 4.702 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 153844

Ion	Ratio	Lower	Upper
43	100		
61	13.3	10.6	15.8
70	10.7	7.8	11.6

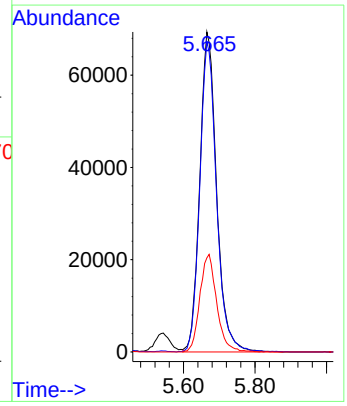


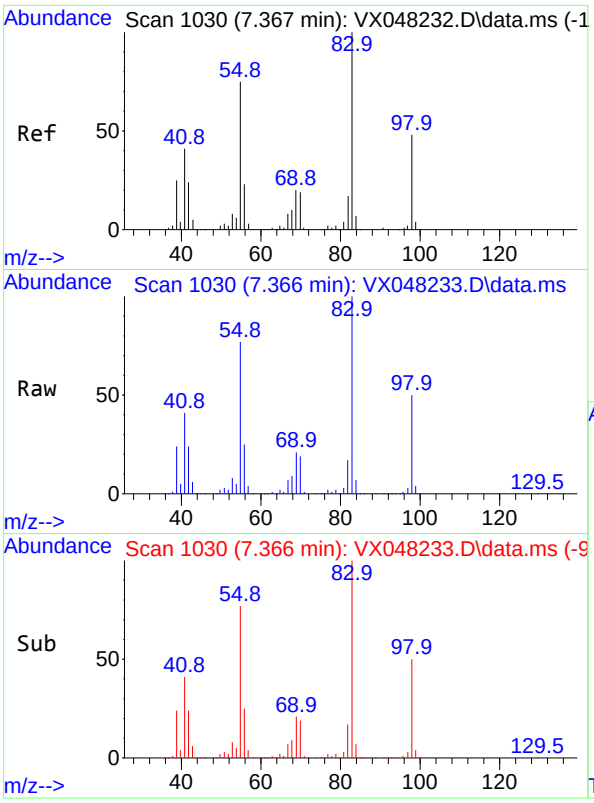


#38
Carbon Tetrachloride
Concen: 100.976 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:117 Resp: 226976

Ion	Ratio	Lower	Upper
117	100		
119	96.9	77.2	115.8
121	29.4	24.8	37.2



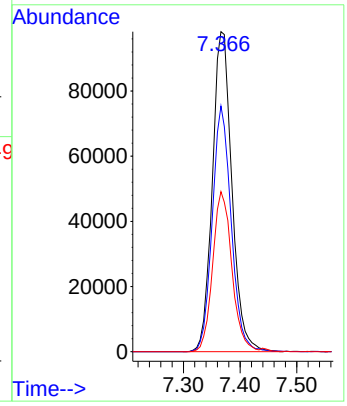


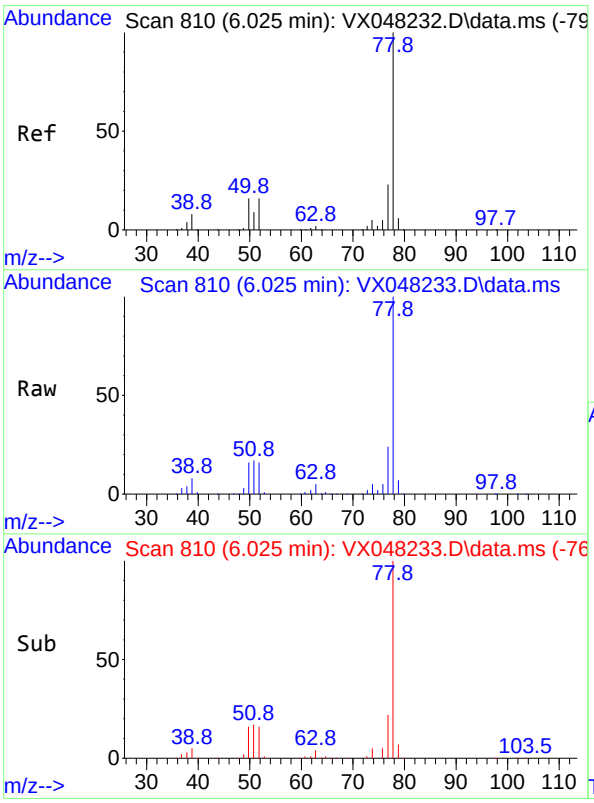
#39
Methylcyclohexane
Concen: 109.312 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 235208

Ion	Ratio	Lower	Upper
83	100		
55	76.8	66.2	99.2
98	50.0	38.9	58.3

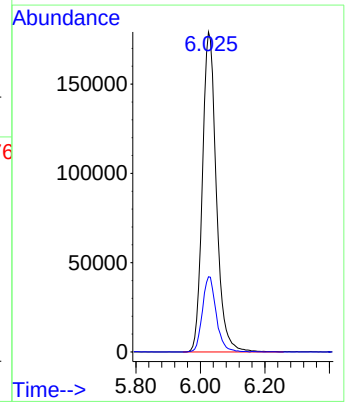


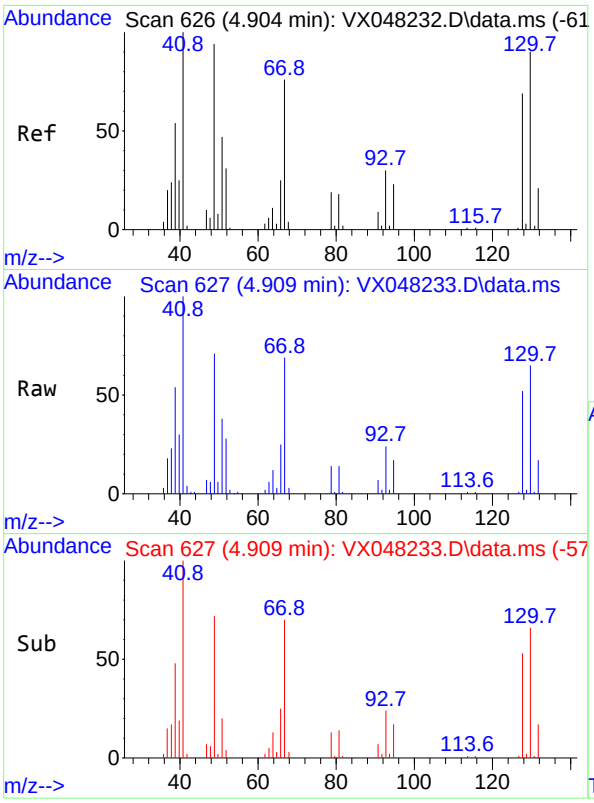


#40
Benzene
Concen: 101.216 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 78 Resp: 535407

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.3	28.9



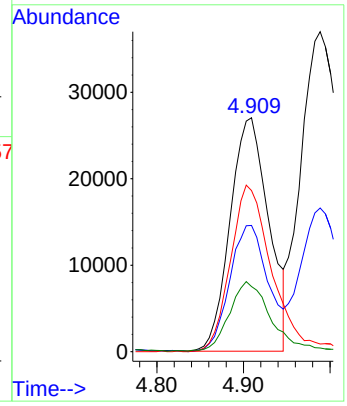


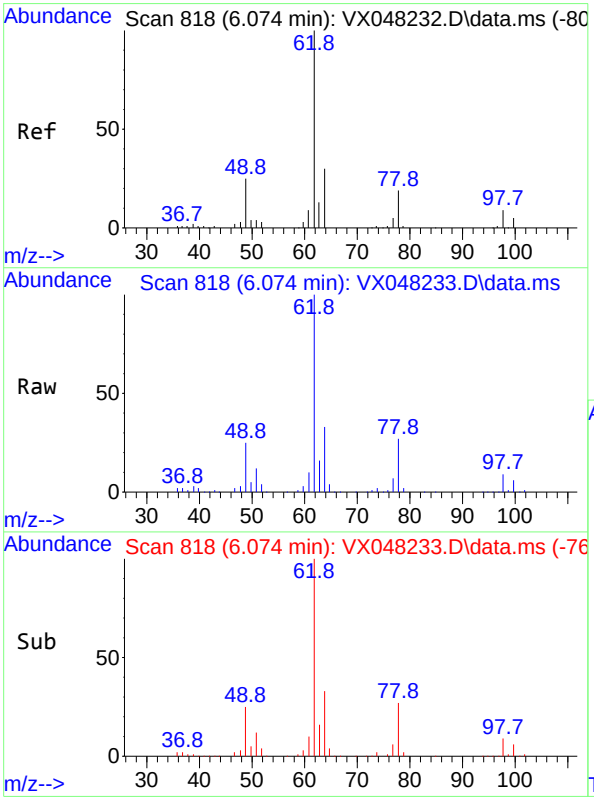
#41
Methacrylonitrile
Concen: 105.653 ug/l
RT: 4.909 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 83790

Ion	Ratio	Lower	Upper
41	100		
39	54.4	44.0	66.0
67	77.7	58.7	88.1
52	32.3	25.9	38.9

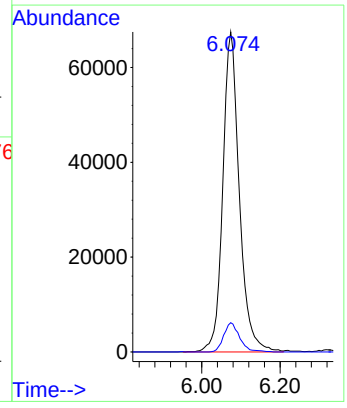


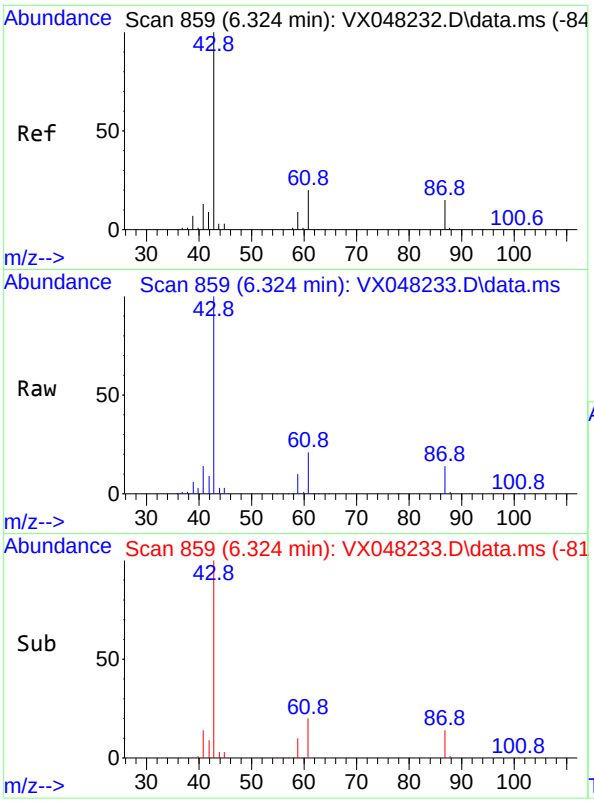


#42
1,2-Dichloroethane
Concen: 101.616 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 62 Resp: 198348

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	17.2



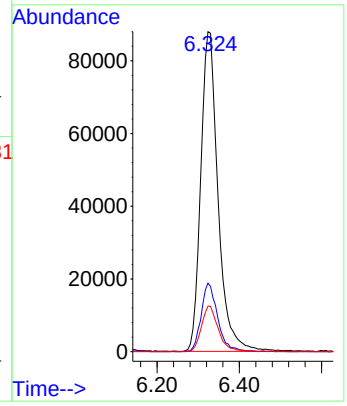


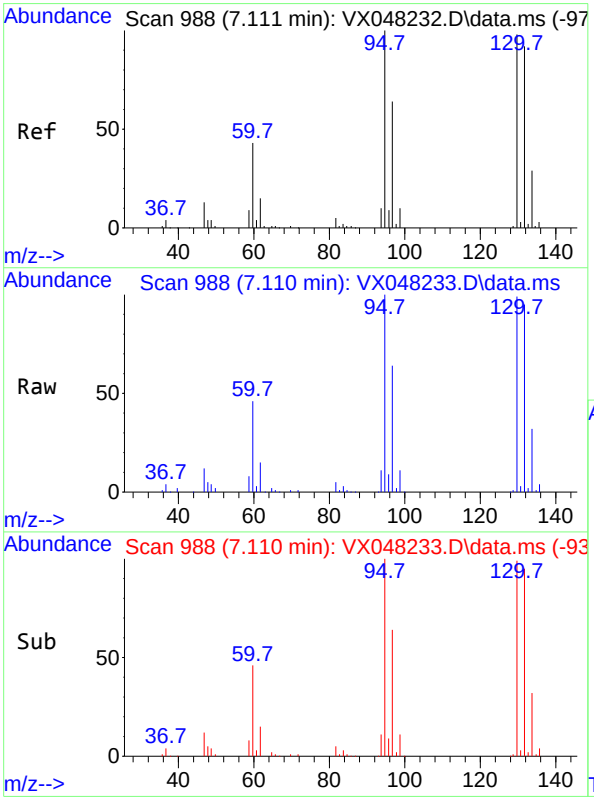
#43
Isopropyl Acetate
Concen: 103.227 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 256067

Ion	Ratio	Lower	Upper
43	100		
61	20.5	14.9	22.3
87	14.0	9.4	14.2

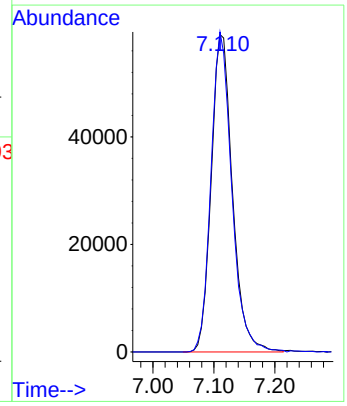


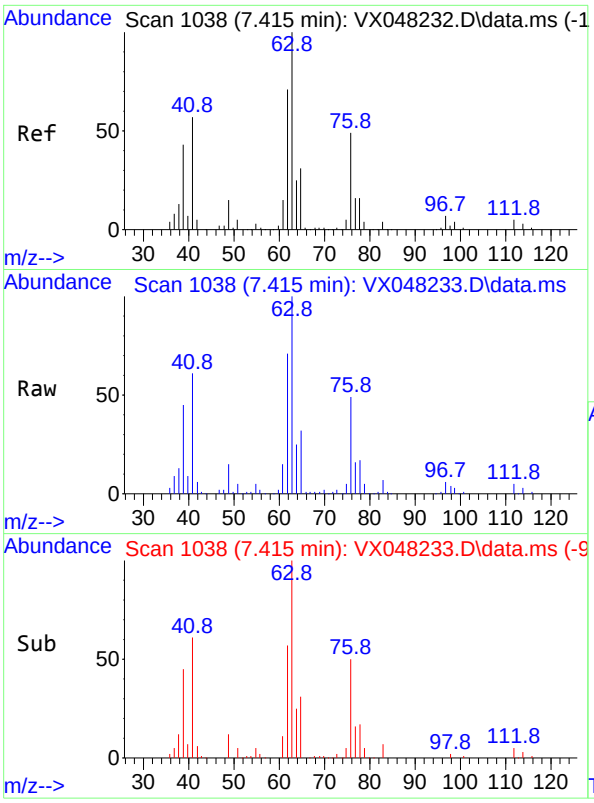


#44
Trichloroethene
Concen: 102.221 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:130 Resp: 142779

Ion	Ratio	Lower	Upper
130	100		
95	100.8	0.0	200.6



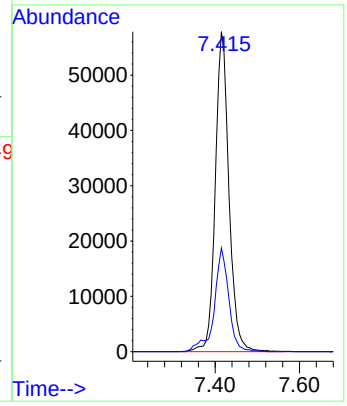


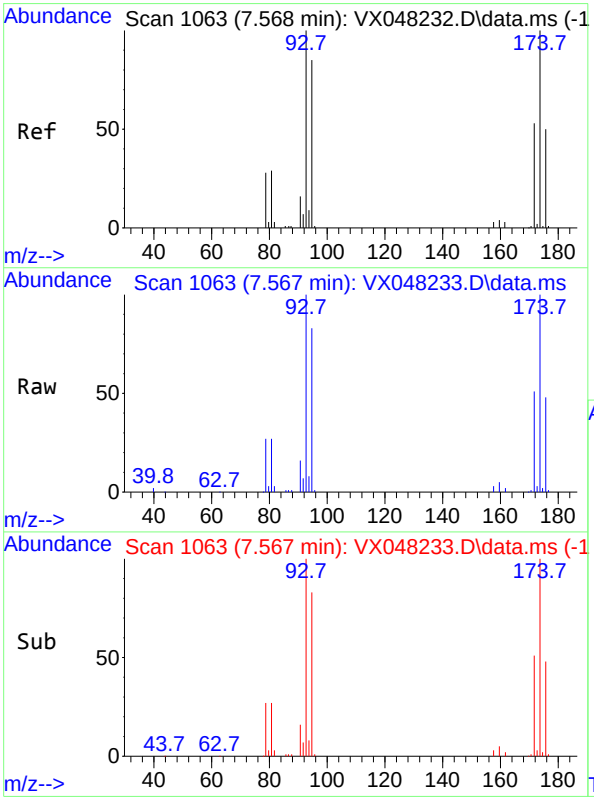
#45
1,2-Dichloropropane
Concen: 103.516 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 130188

Ion	Ratio	Lower	Upper
63	100		
65	32.4	24.1	36.1

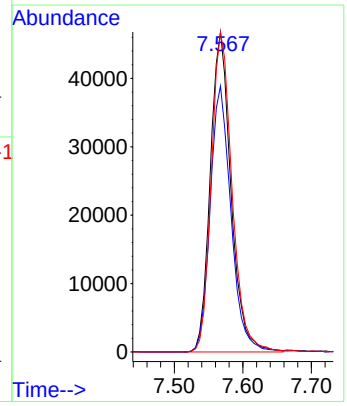


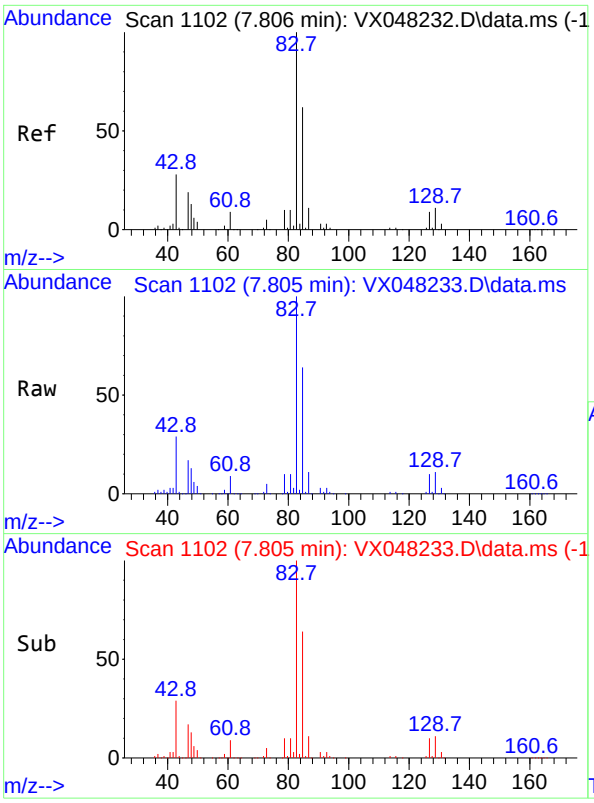


#46
Dibromomethane
Concen: 100.126 ug/l
RT: 7.567 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 93 Resp: 98105

Ion	Ratio	Lower	Upper
93	100		
95	83.4	65.9	98.9
174	100.3	71.7	107.5



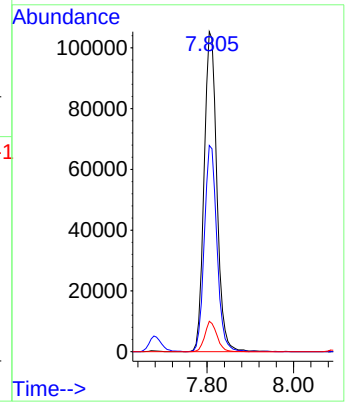


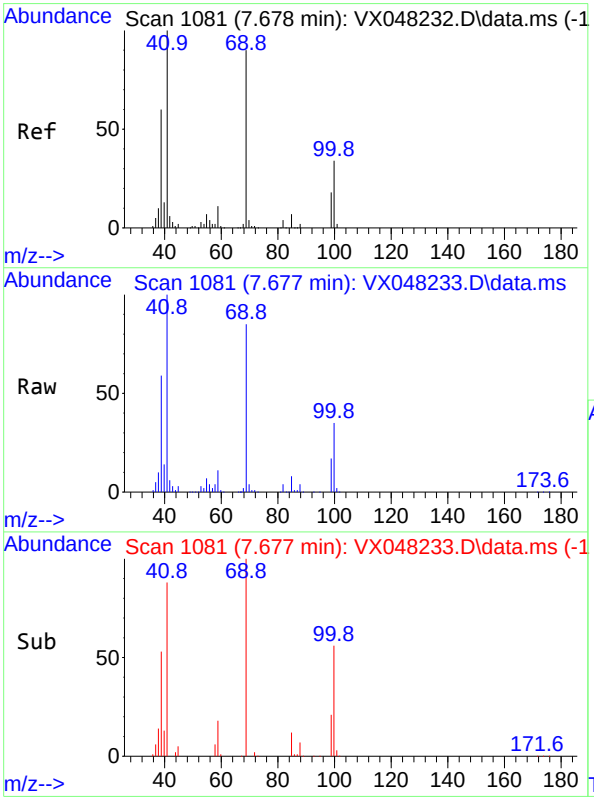
#47
Bromodichloromethane
Concen: 101.770 ug/l
RT: 7.805 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 215302

Ion	Ratio	Lower	Upper
83	100		
85	64.4	52.2	78.4
127	9.5	7.3	10.9

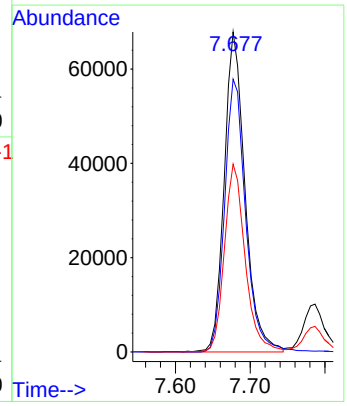


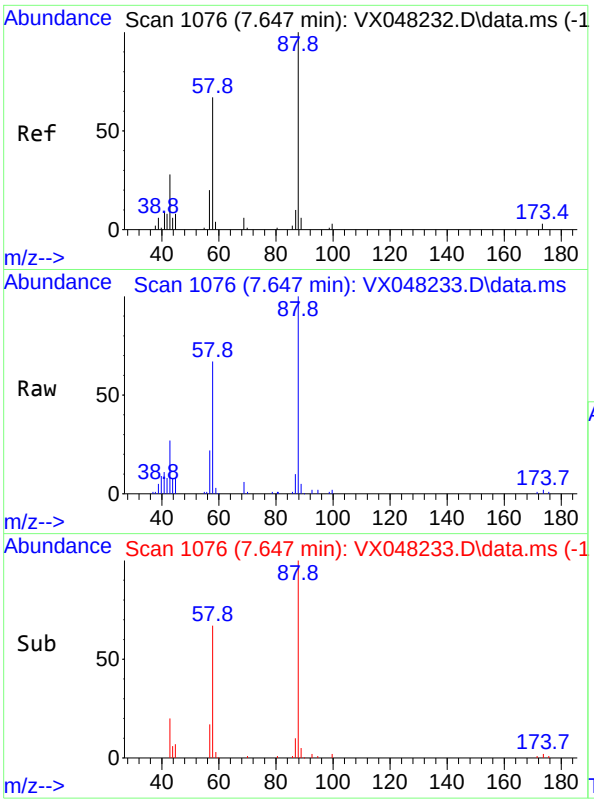


#48
Methyl methacrylate
Concen: 105.017 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 41 Resp: 131454

Ion	Ratio	Lower	Upper
41	100		
69	86.8	63.4	95.0
39	58.7	47.1	70.7



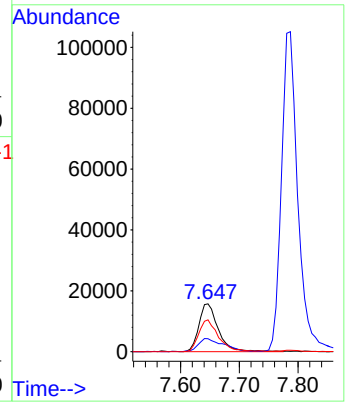


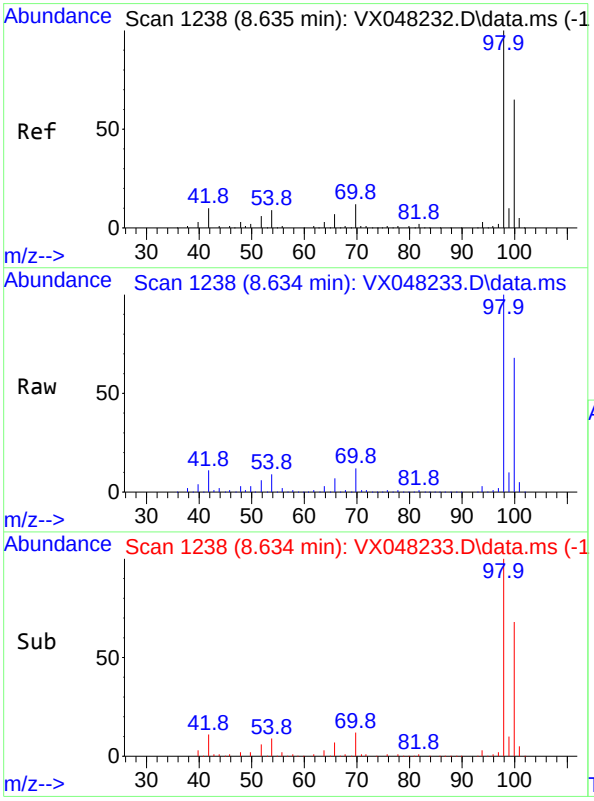
#49
1,4-Dioxane
Concen: 2175.223 ug/l
RT: 7.647 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 88 Resp: 35972

Ion	Ratio	Lower	Upper
88	100		
43	36.6	35.0	52.4
58	68.4	61.9	92.9

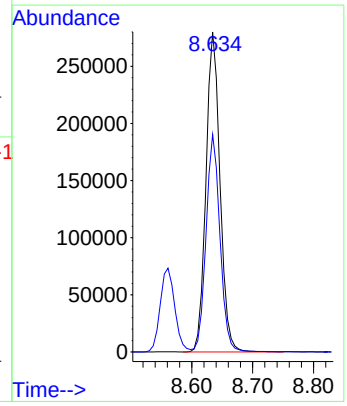


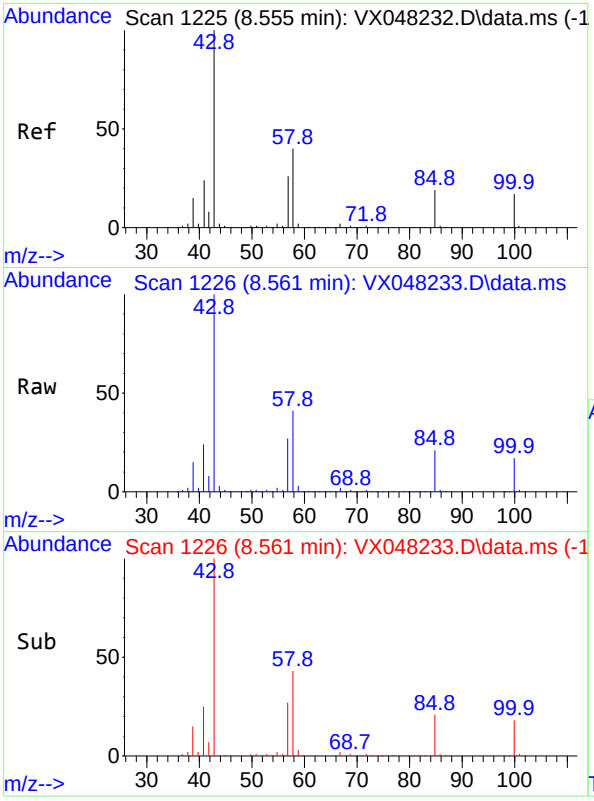


#50
Toluene-d8
Concen: 99.920 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 98 Resp: 448948

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4



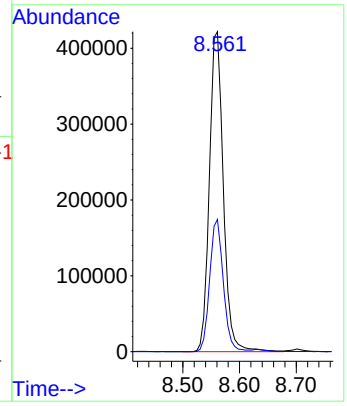


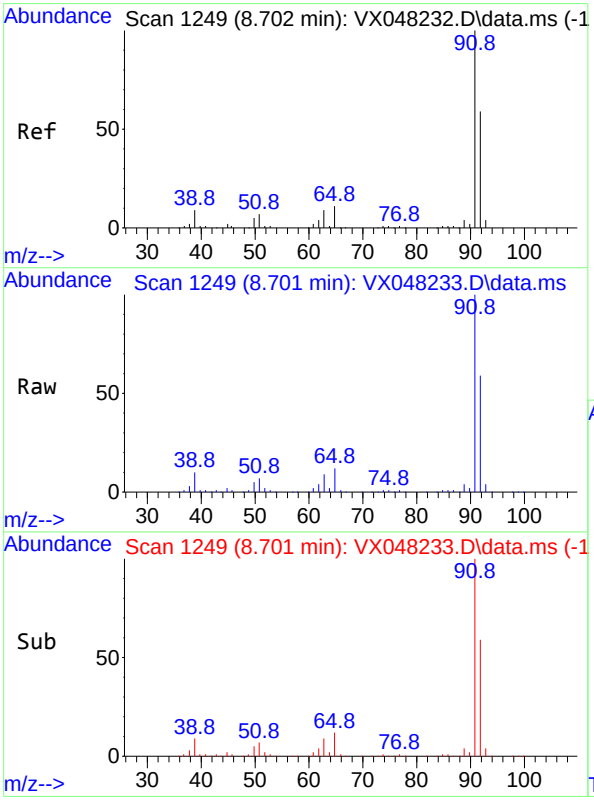
#51
4-Methyl-2-Pentanone
Concen: 504.097 ug/l
RT: 8.561 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 720980

Ion	Ratio	Lower	Upper
43	100		
58	40.4	29.5	44.3

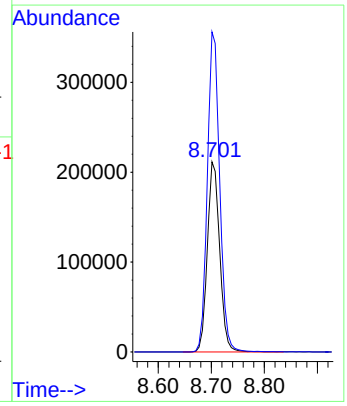


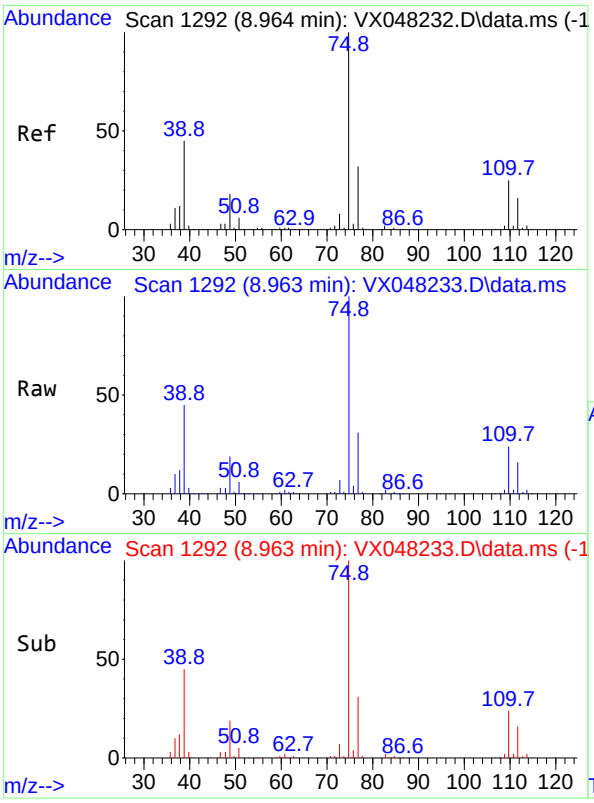


#52
Toluene
Concen: 101.651 ug/l
RT: 8.701 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 92 Resp: 341597

Ion	Ratio	Lower	Upper
92	100		
91	168.2	136.1	204.1



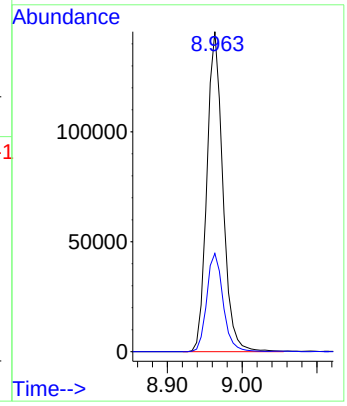


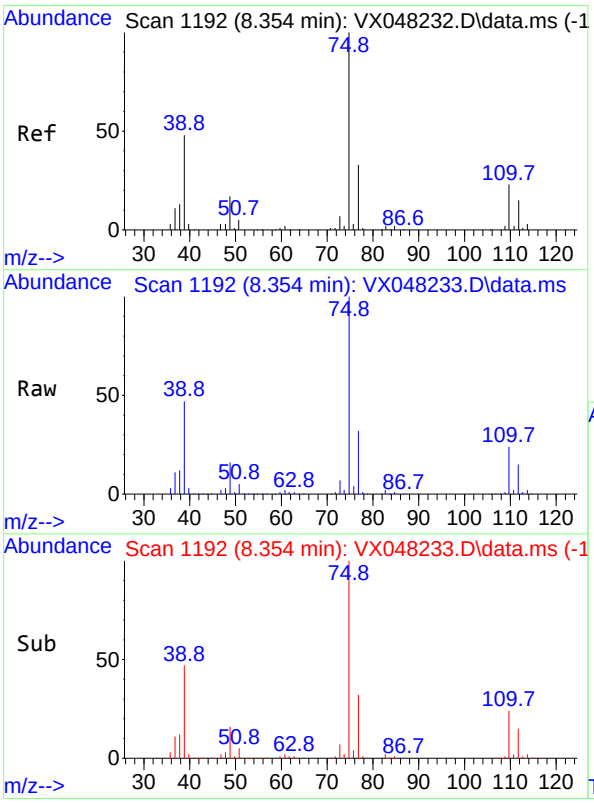
#53
t-1,3-Dichloropropene
Concen: 105.820 ug/l
RT: 8.963 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 215736

Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.0	37.6

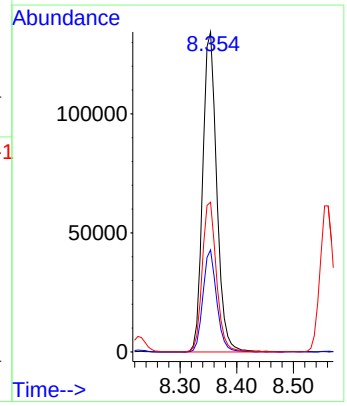


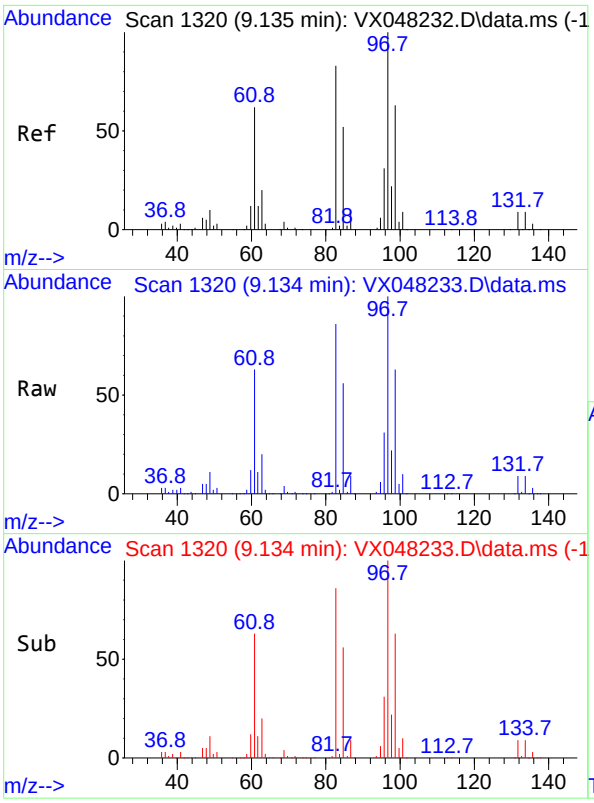


#54
cis-1,3-Dichloropropene
Concen: 105.038 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 75 Resp: 231037

Ion	Ratio	Lower	Upper
75	100		
77	31.9	24.9	37.3
39	46.7	42.6	64.0



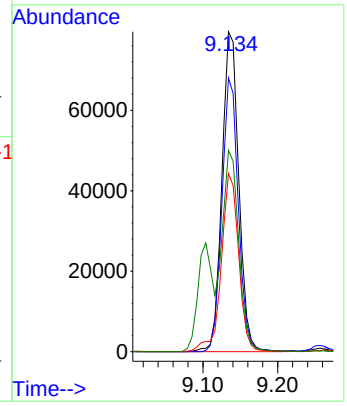


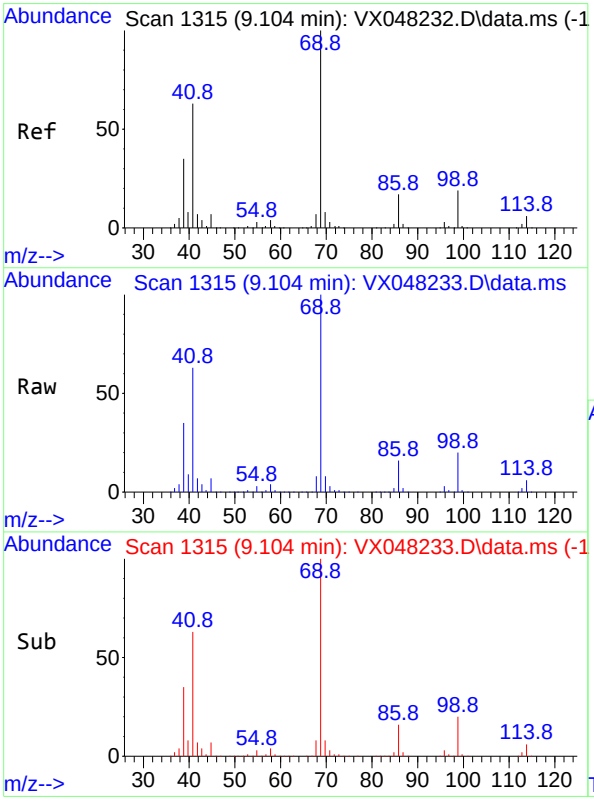
#55
1,1,2-Trichloroethane
Concen: 99.952 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 97 Resp: 124910

Ion	Ratio	Lower	Upper
97	100		
83	85.5	70.6	105.8
85	55.7	45.0	67.6
99	62.8	50.9	76.3

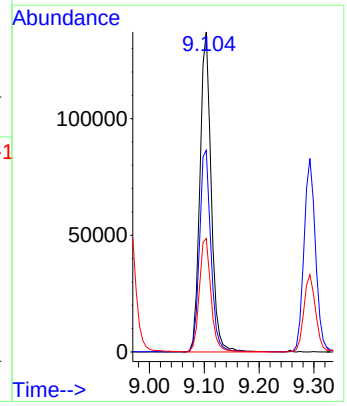


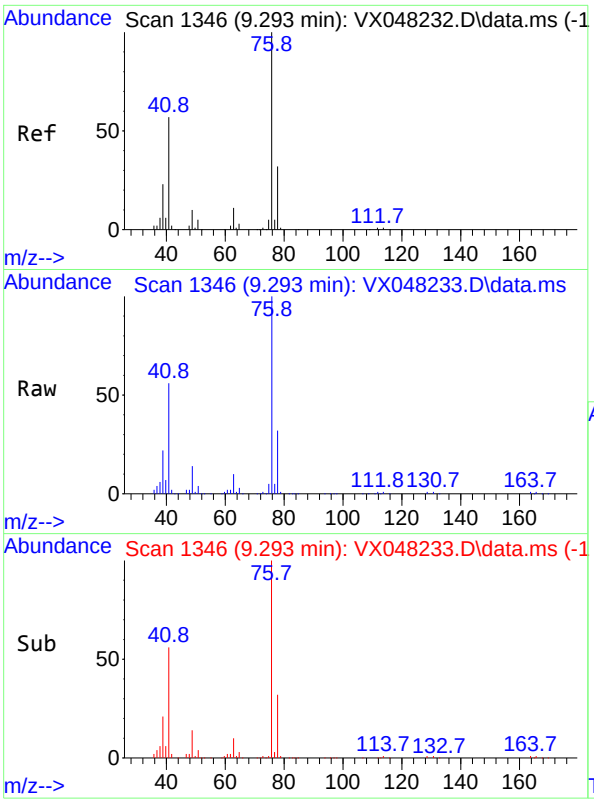


#56
Ethyl methacrylate
Concen: 107.610 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 69 Resp: 196699

Ion	Ratio	Lower	Upper
69	100		
41	64.0	56.0	84.0
39	36.7	31.6	47.4



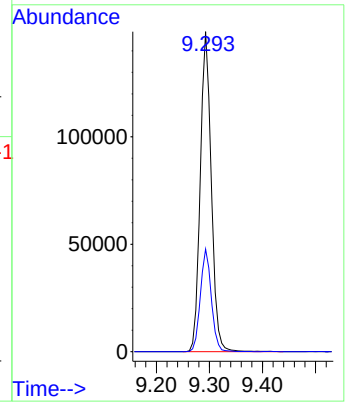


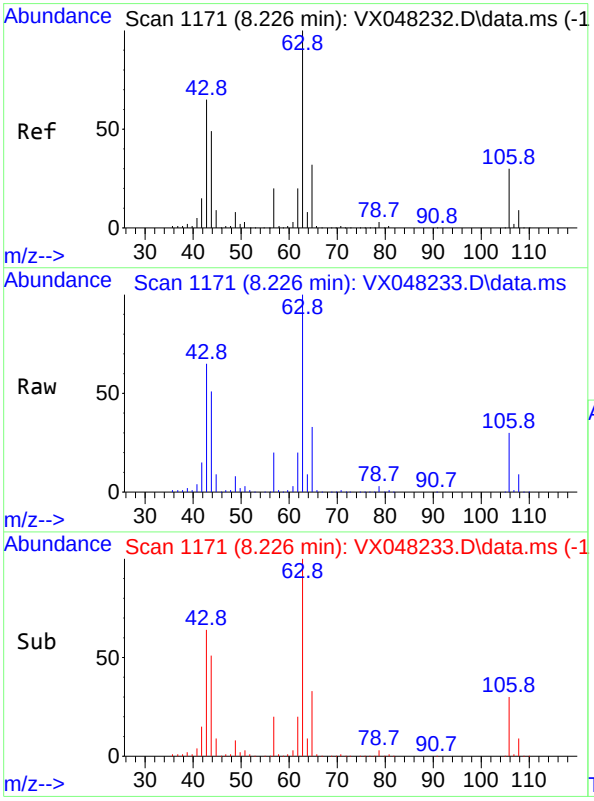
#57
1,3-Dichloropropane
Concen: 100.650 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 214853

Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.4	38.0

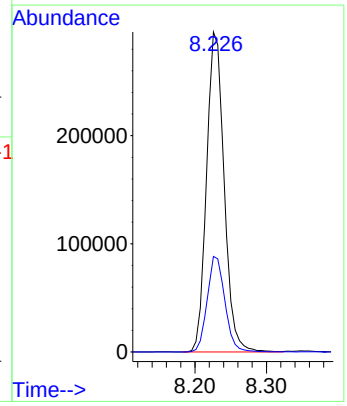


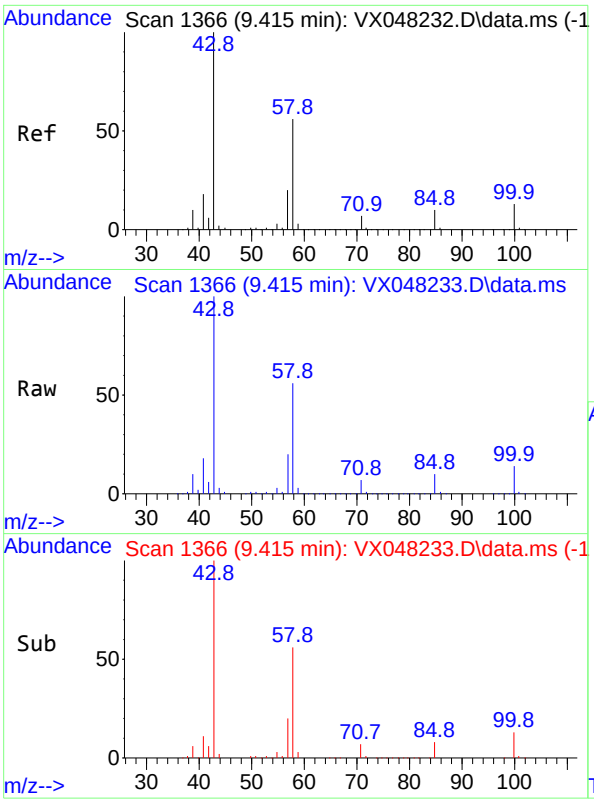


#58
2-Chloroethyl Vinyl ether
Concen: 512.470 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 63 Resp: 505448

Ion	Ratio	Lower	Upper
63	100		
106	30.0	22.2	33.2



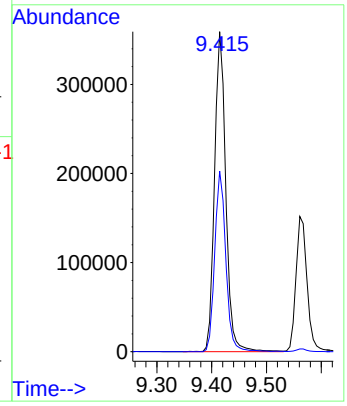


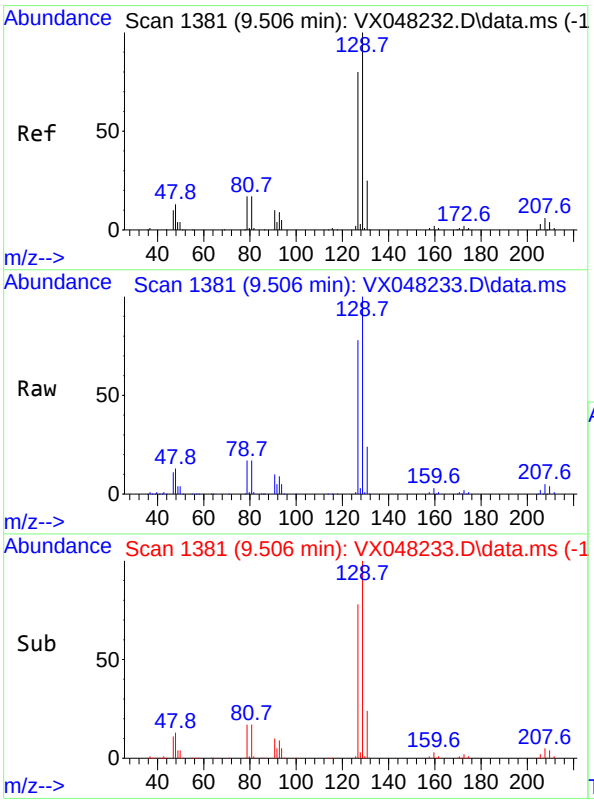
#59
2-Hexanone
Concen: 510.781 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 509398

Ion	Ratio	Lower	Upper
43	100		
58	55.8	26.3	78.8

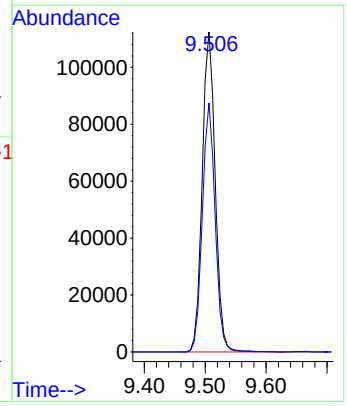


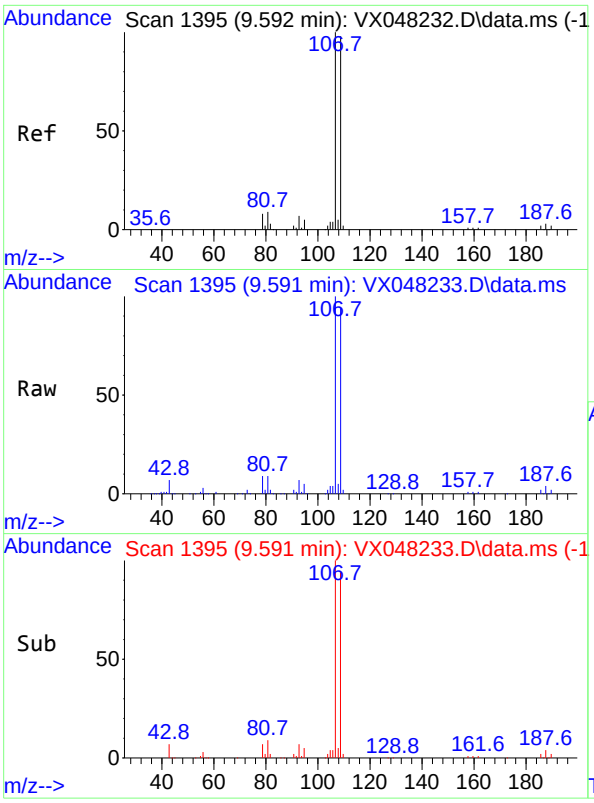


#60
Dibromochloromethane
Concen: 98.928 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:129 Resp: 166167

Ion	Ratio	Lower	Upper
129	100		
127	76.9	38.6	115.7



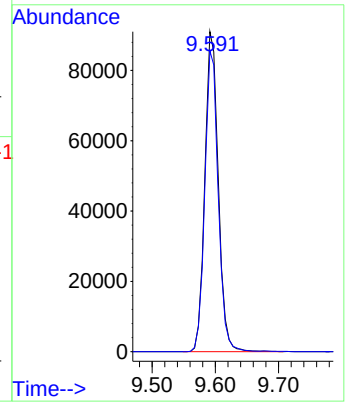


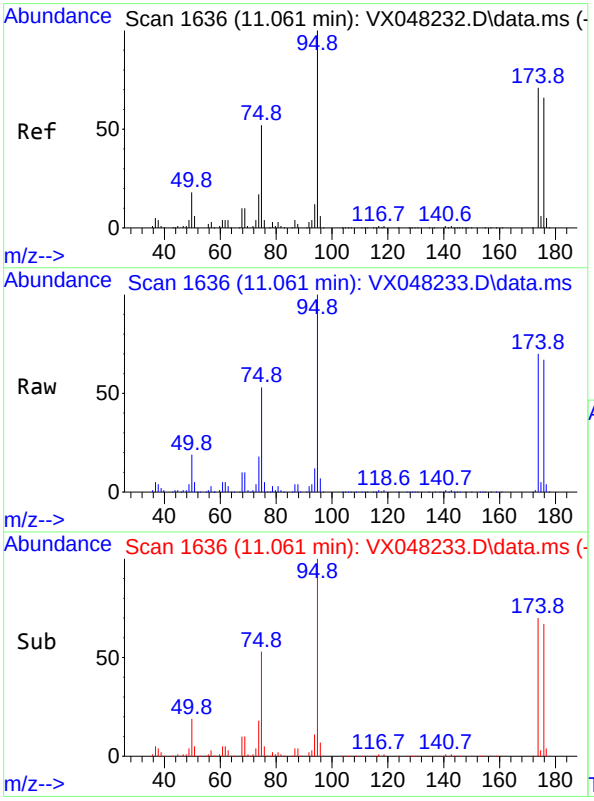
#61
1,2-Dibromoethane
Concen: 101.077 ug/l
RT: 9.591 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 134662

Ion	Ratio	Lower	Upper
107	100		
109	93.7	77.0	115.4

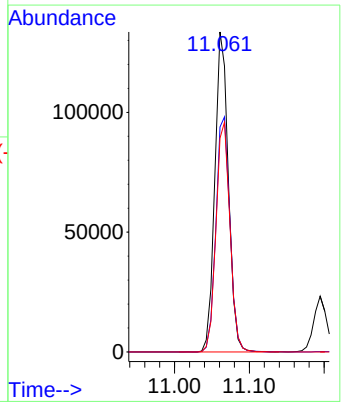


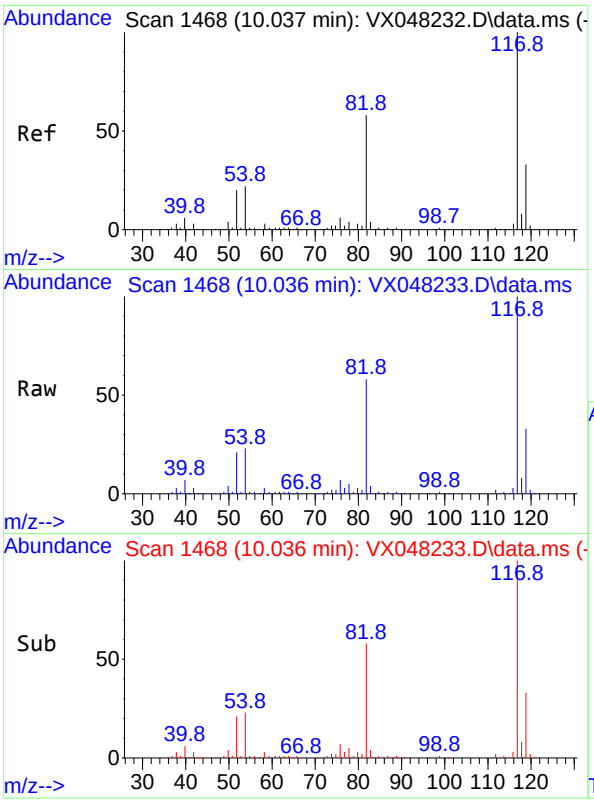


#62
4-Bromofluorobenzene
Concen: 98.032 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 95 Resp: 167565

Ion	Ratio	Lower	Upper
95	100		
174	76.3	0.0	147.8
176	74.1	0.0	142.8



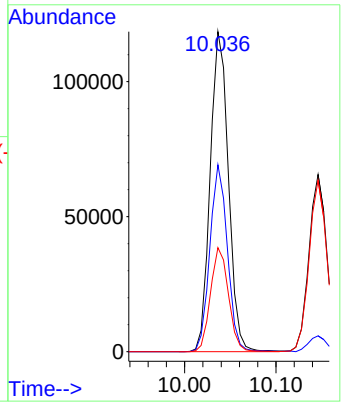


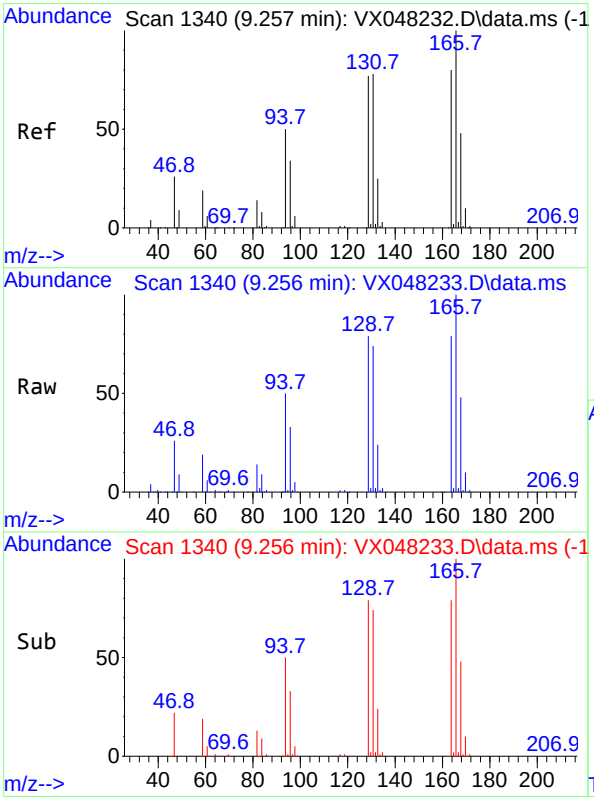
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.036 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 163588

Ion	Ratio	Lower	Upper
117	100		
82	58.4	46.5	69.7
119	32.5	25.9	38.9

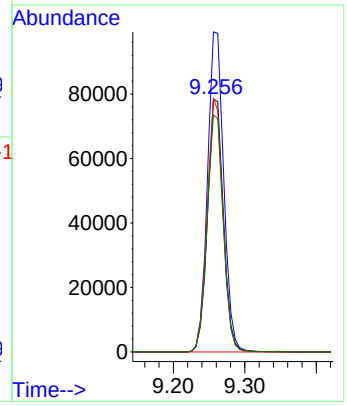


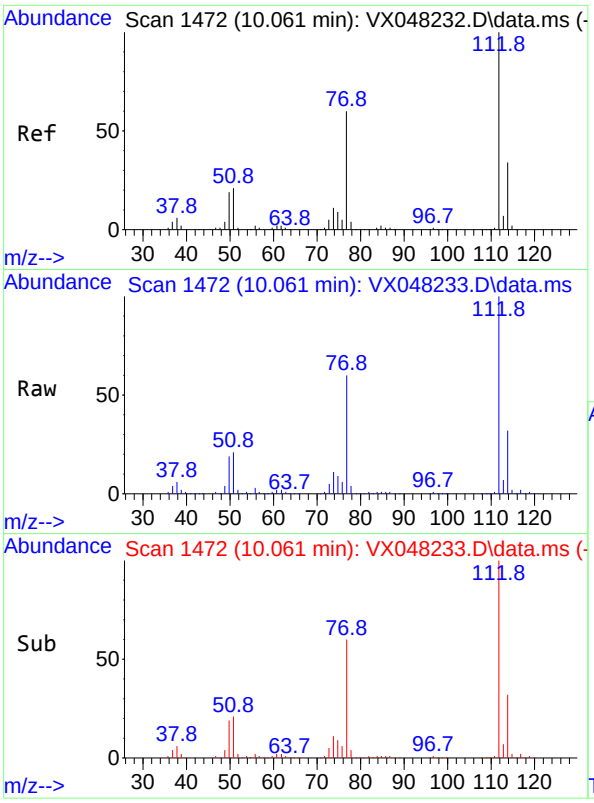


#64
Tetrachloroethene
Concen: 99.215 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:164 Resp: 121163

Ion	Ratio	Lower	Upper
164	100		
166	126.5	104.5	156.7
129	100.1	81.8	122.6
131	93.6	77.0	115.6



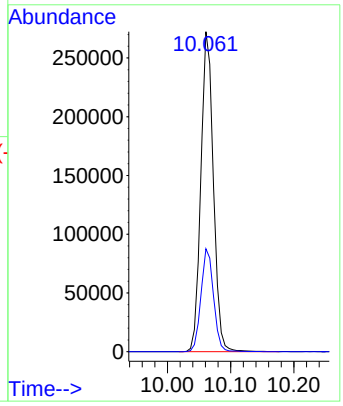


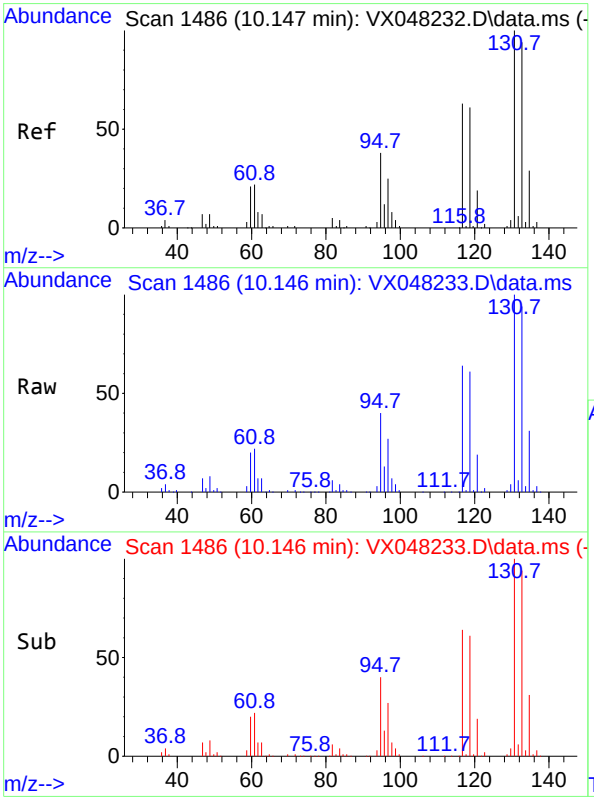
#65
Chlorobenzene
Concen: 102.048 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 375532

Ion	Ratio	Lower	Upper
112	100		
114	32.1	26.2	39.2

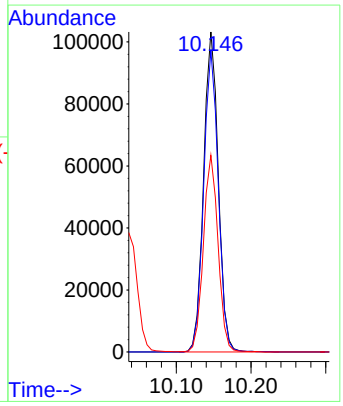


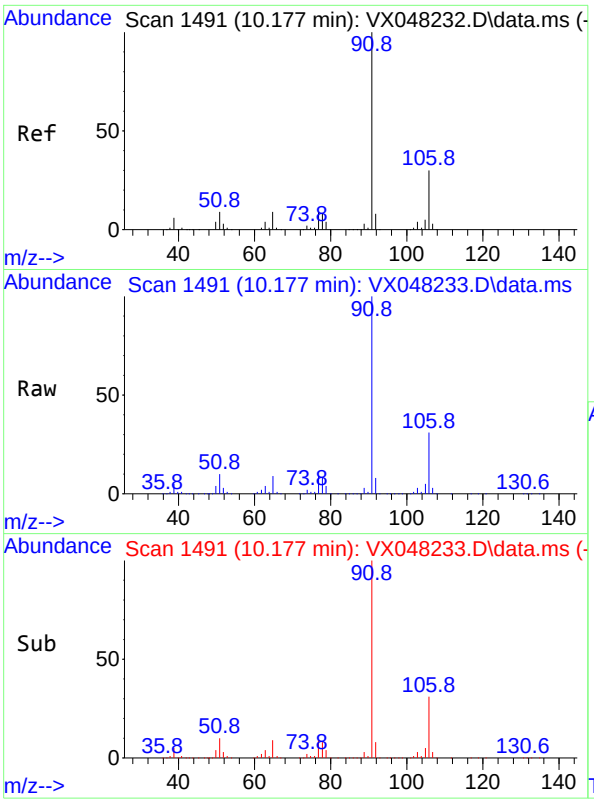


#66
1,1,1,2-Tetrachloroethane
Concen: 104.022 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:131 Resp: 140599

Ion	Ratio	Lower	Upper
131	100		
133	93.7	47.6	142.8
119	61.6	32.5	97.5



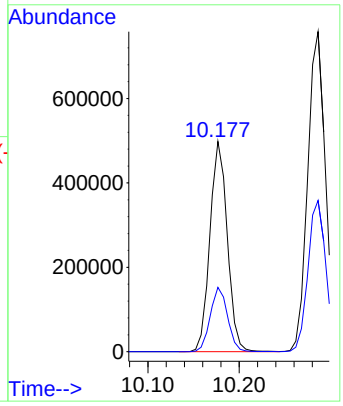


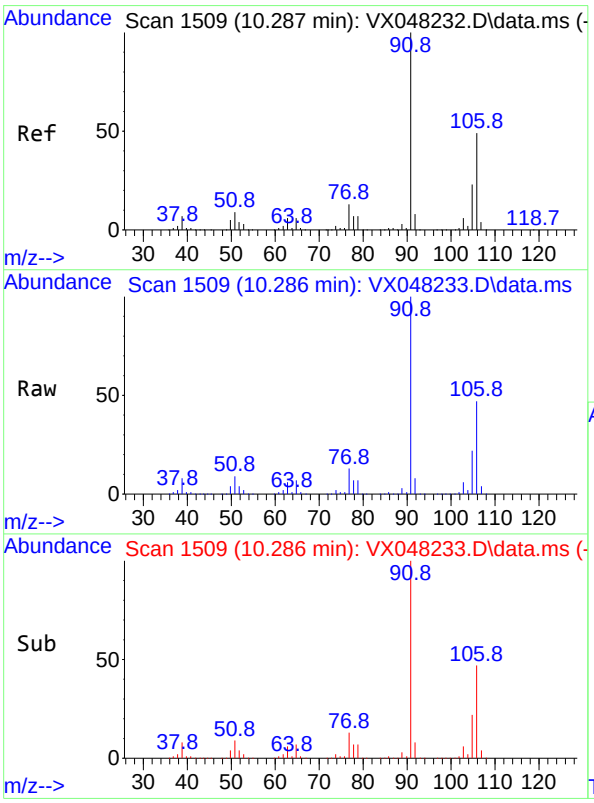
#67
Ethyl Benzene
Concen: 104.850 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 656925

Ion	Ratio	Lower	Upper
91	100		
106	30.6	23.8	35.6

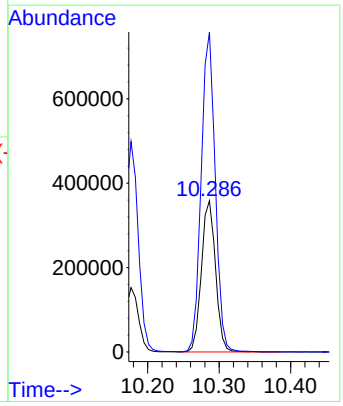


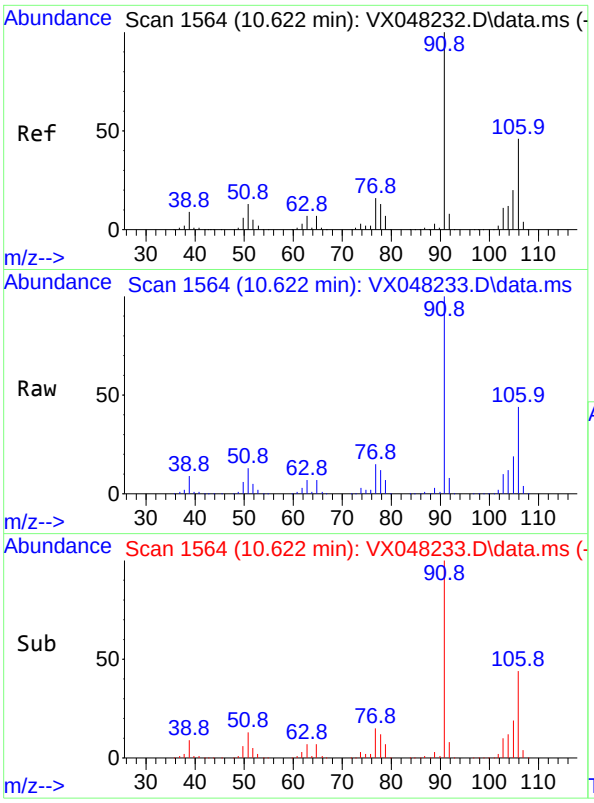


#68
m/p-Xylenes
Concen: 210.869 ug/l
RT: 10.286 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:106 Resp: 490879

Ion	Ratio	Lower	Upper
106	100		
91	210.5	167.9	251.9



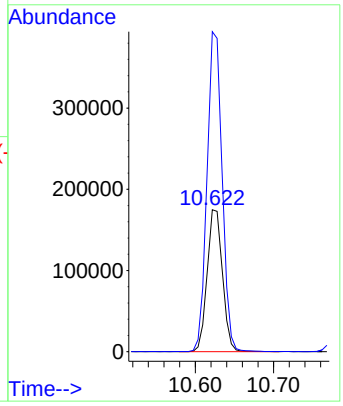


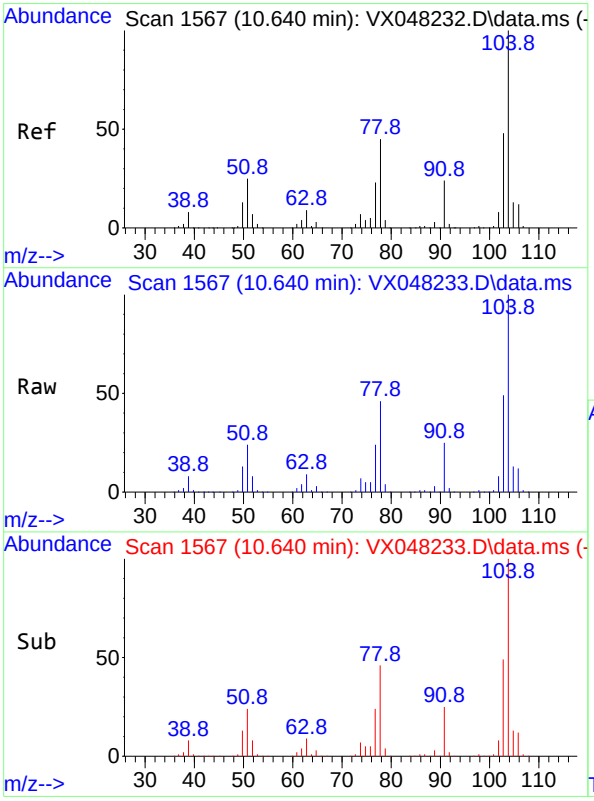
#69
o-Xylene
Concen: 105.297 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 236648

Ion	Ratio	Lower	Upper
106	100		
91	222.9	111.3	333.9

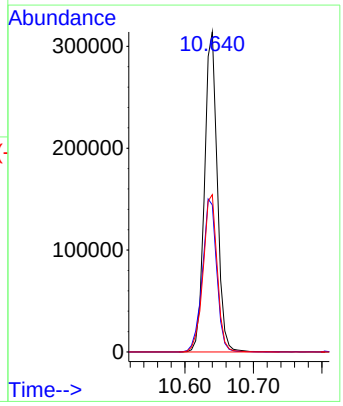


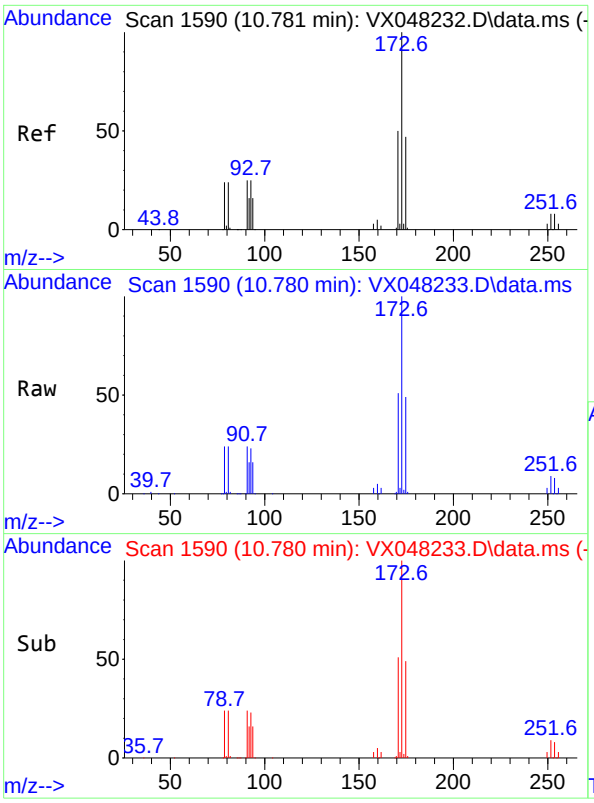


#70
Styrene
Concen: 106.594 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:104 Resp: 407916

Ion	Ratio	Lower	Upper
104	100		
78	53.6	42.2	63.4
103	54.0	43.0	64.4



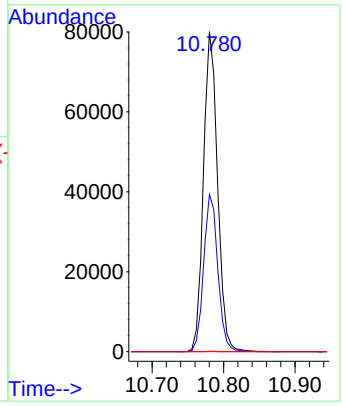


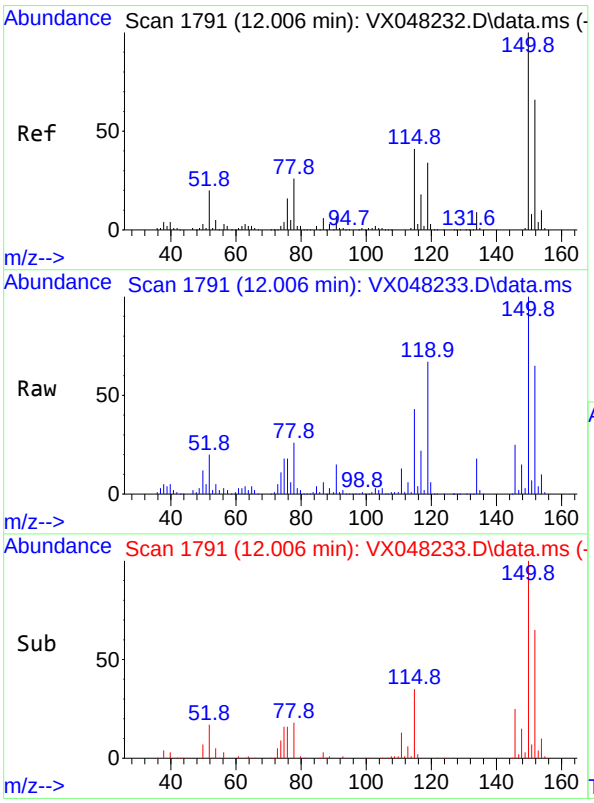
#71
Bromoform
Concen: 101.467 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:173 Resp: 109613

Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.0	72.0
254	0.1	0.0	0.0#

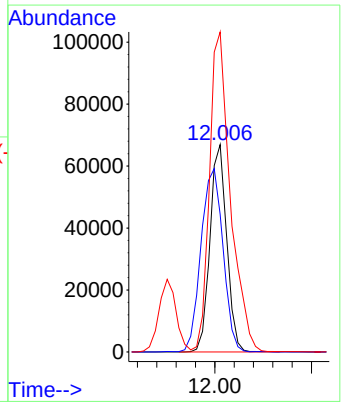


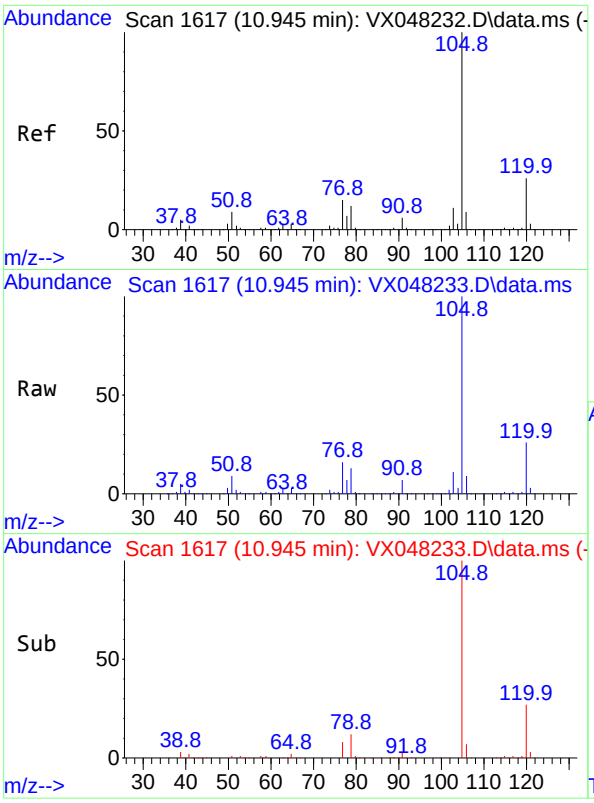


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:152 Resp: 80621

Ion	Ratio	Lower	Upper
152	100		
115	116.4	43.1	129.4
150	192.6	0.0	353.0



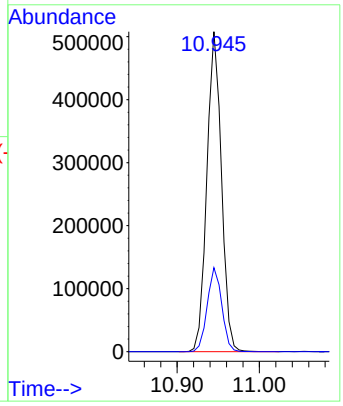


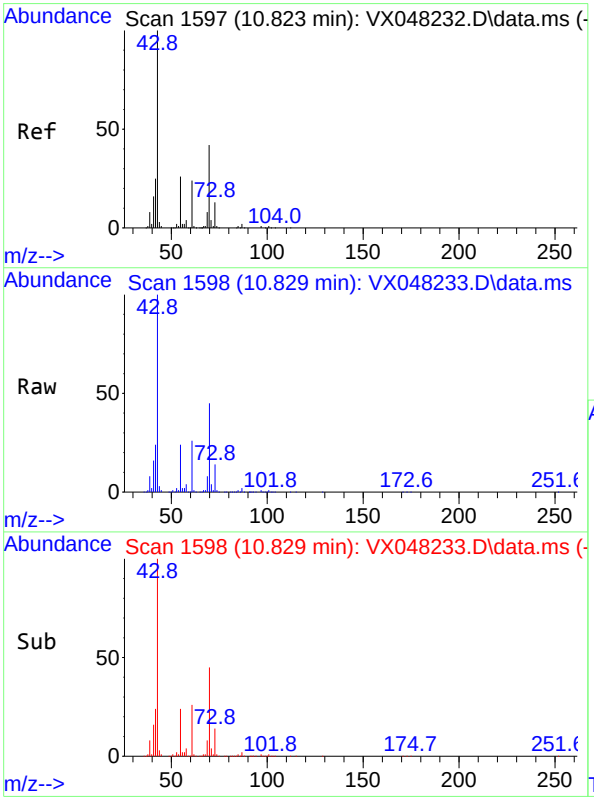
#73
Isopropylbenzene
Concen: 106.098 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 624767

Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.0	38.9

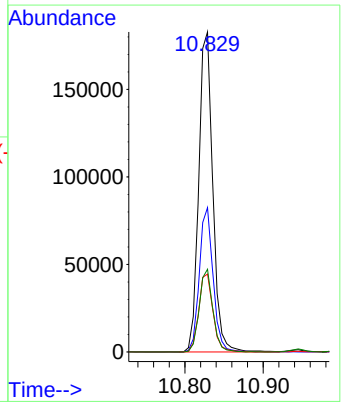


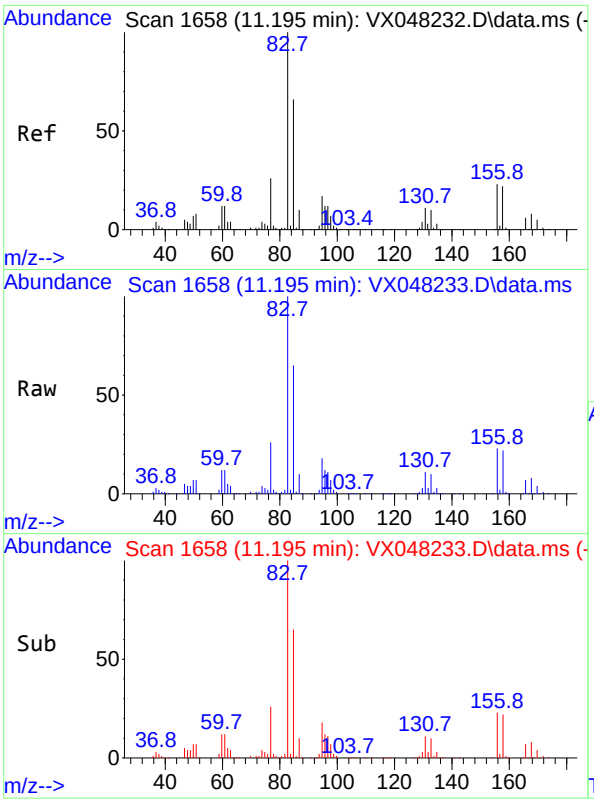


#74
N-amyl acetate
Concen: 109.195 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 43 Resp: 228080

Ion	Ratio	Lower	Upper
43	100		
70	44.4	32.2	48.2
55	24.8	19.1	28.7
61	25.0	18.6	28.0



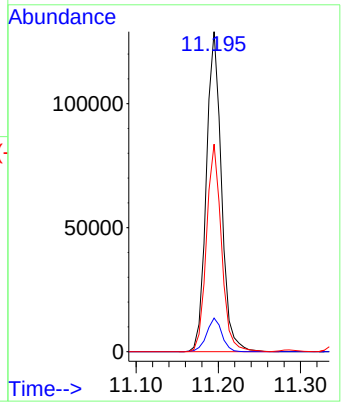


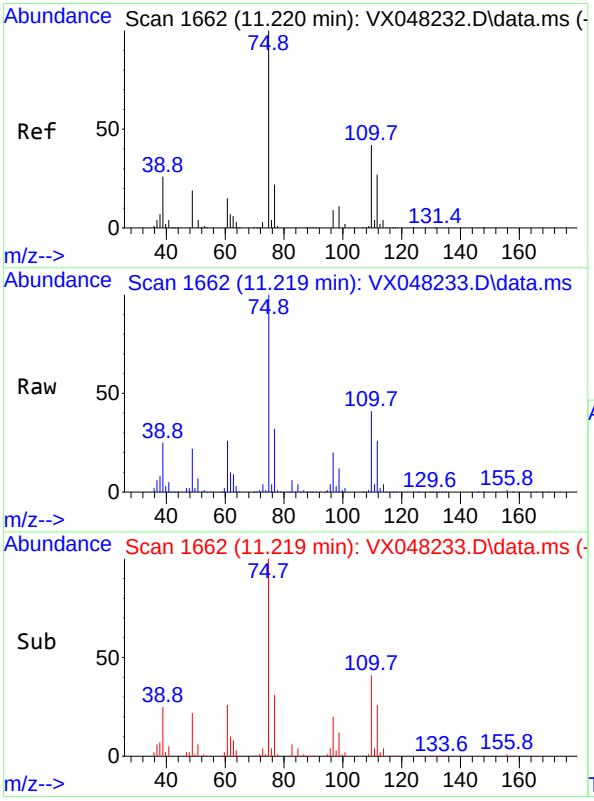
#75
1,1,2,2-Tetrachloroethane
Concen: 102.114 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 164207

Ion	Ratio	Lower	Upper
83	100		
131	10.6	4.8	14.4
85	64.4	31.9	95.7

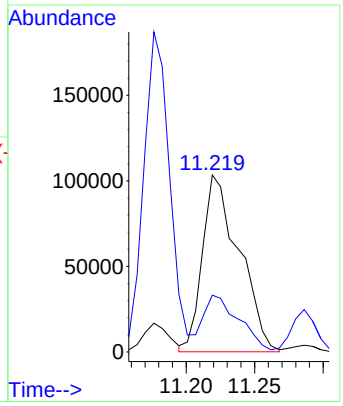


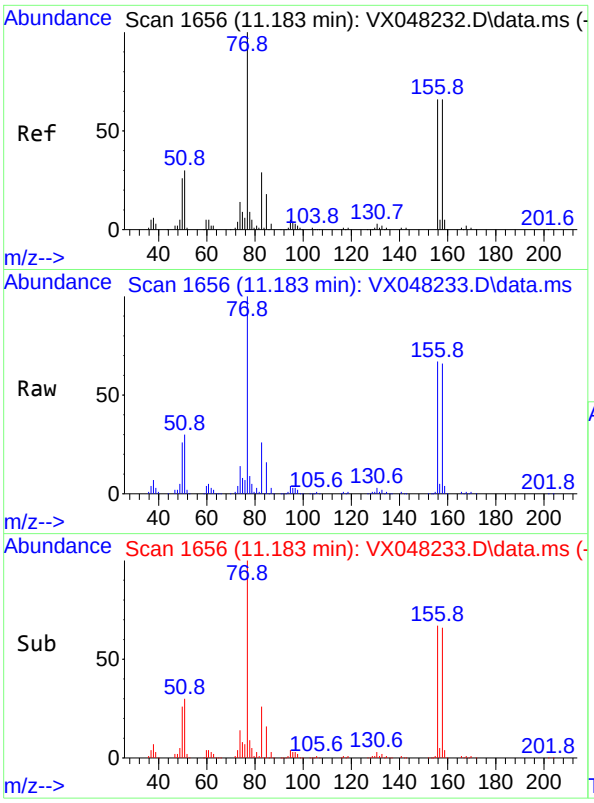


#76
1,2,3-Trichloropropane
Concen: 147.394 ug/l
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 75 Resp: 192703

Ion	Ratio	Lower	Upper
75	100		
77	30.5	22.4	67.2



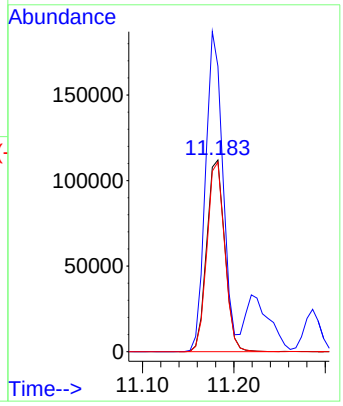


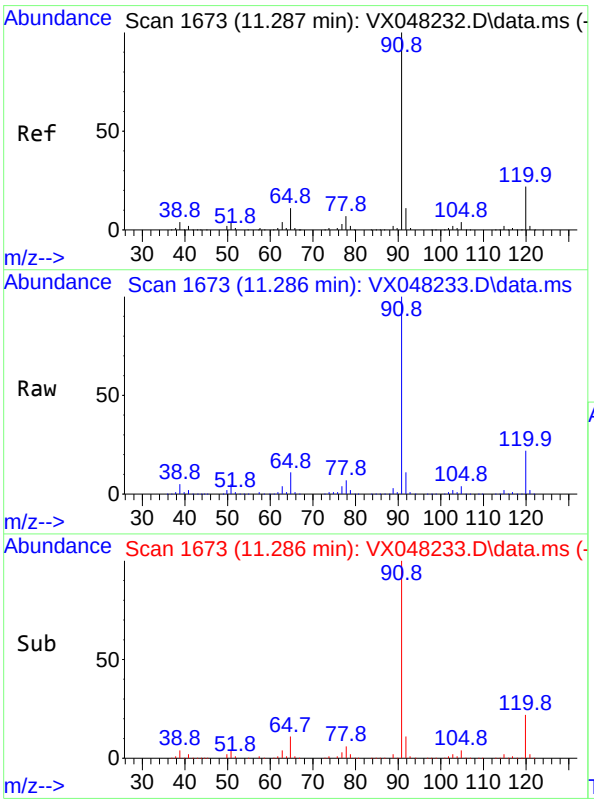
#77
Bromobenzene
Concen: 104.042 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 153619

Ion	Ratio	Lower	Upper
156	100		
77	159.4	87.0	261.0
158	96.9	47.8	143.4

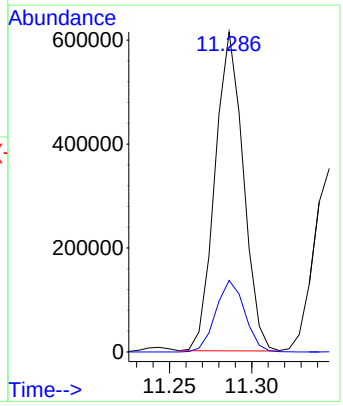


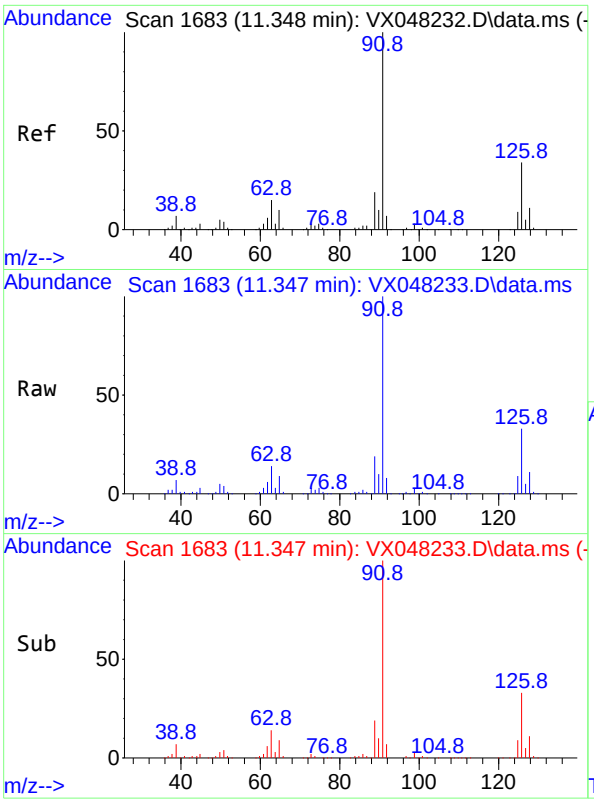


#78
n-propylbenzene
Concen: 107.464 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 91 Resp: 732684

Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.1	33.1



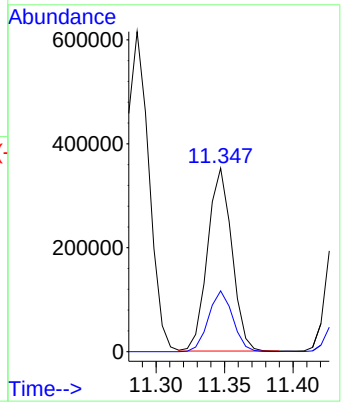


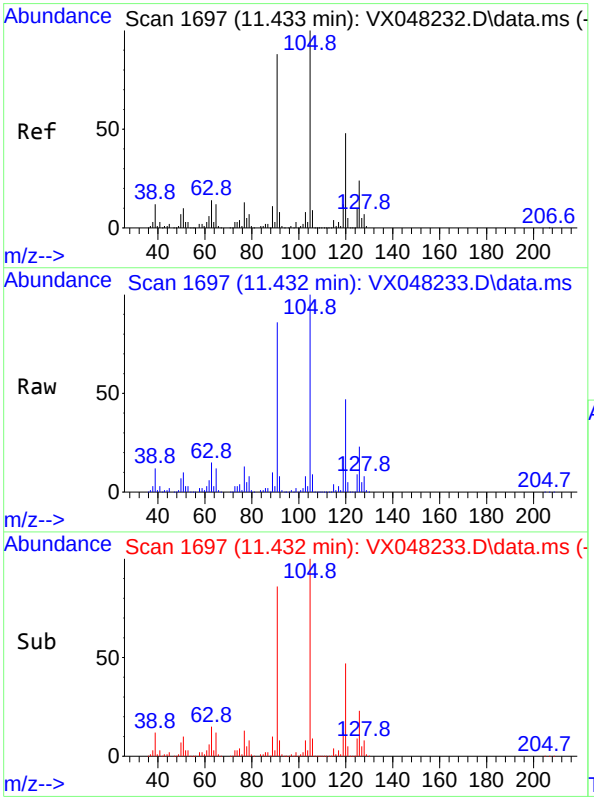
#79
2-Chlorotoluene
Concen: 105.044 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 434217

Ion	Ratio	Lower	Upper
91	100		
126	33.2	16.4	49.4

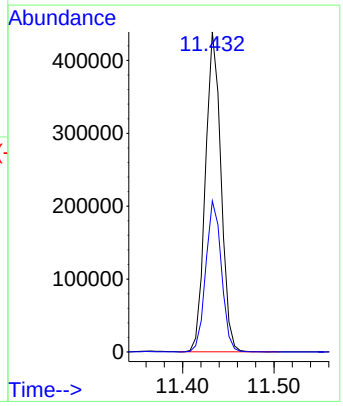


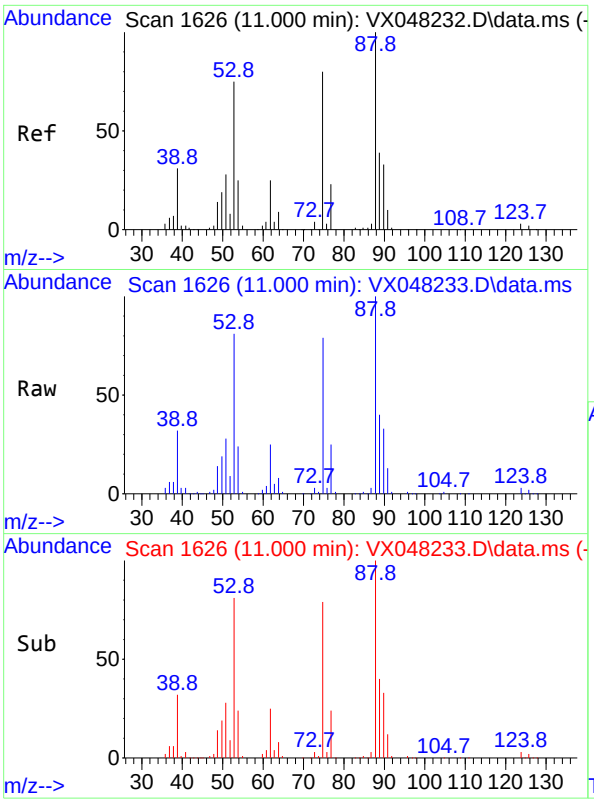


#80
1,3,5-Trimethylbenzene
Concen: 106.616 ug/l
RT: 11.432 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:105 Resp: 519549

Ion	Ratio	Lower	Upper
105	100		
120	47.6	24.0	72.0



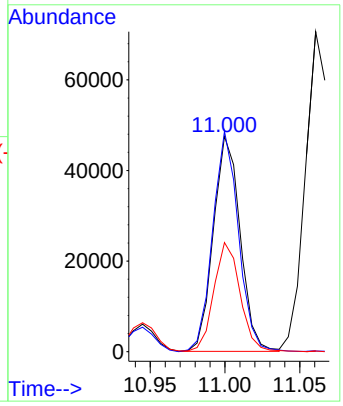


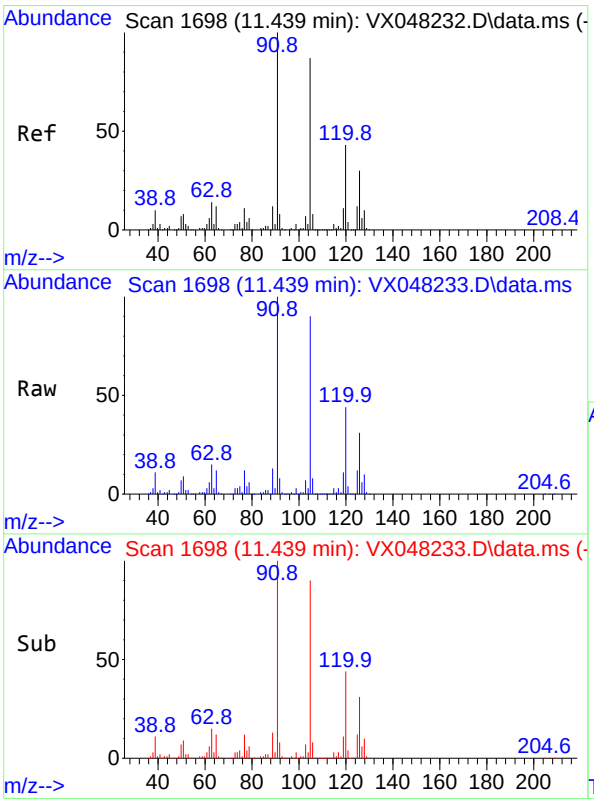
#81
trans-1,4-Dichloro-2-butene
Concen: 109.902 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 59059

Ion	Ratio	Lower	Upper
75	100		
53	98.7	79.5	119.3
89	49.9	36.8	55.2

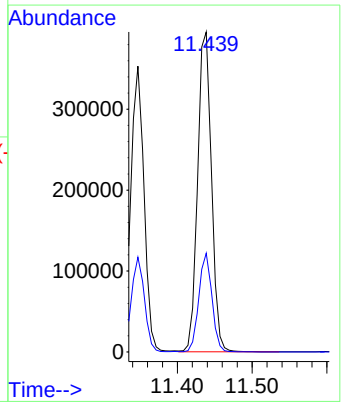


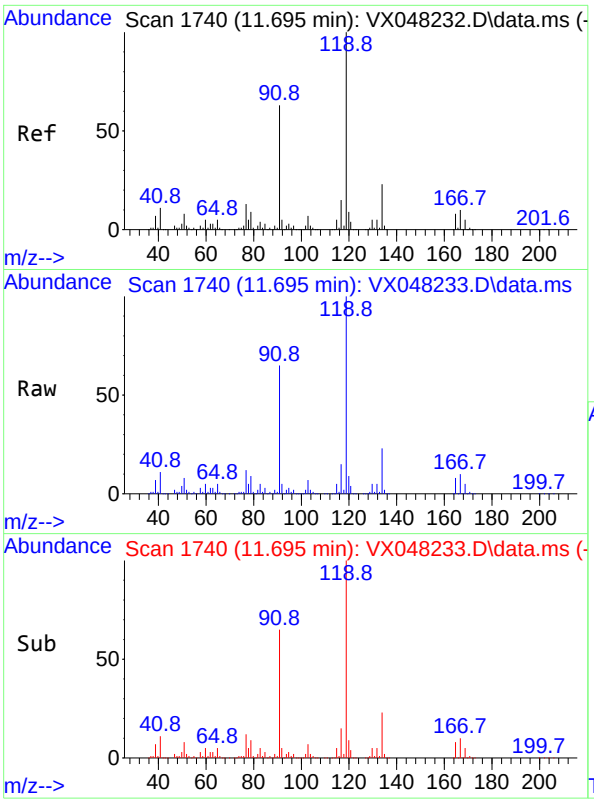


#82
4-Chlorotoluene
Concen: 103.293 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 91 Resp: 506861

Ion	Ratio	Lower	Upper
91	100		
126	29.5	14.1	42.4



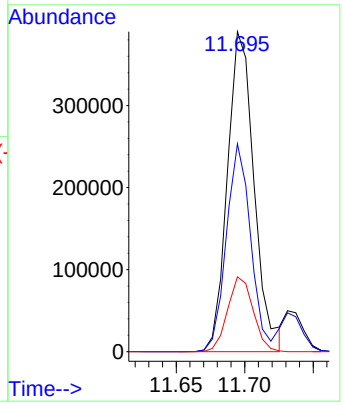


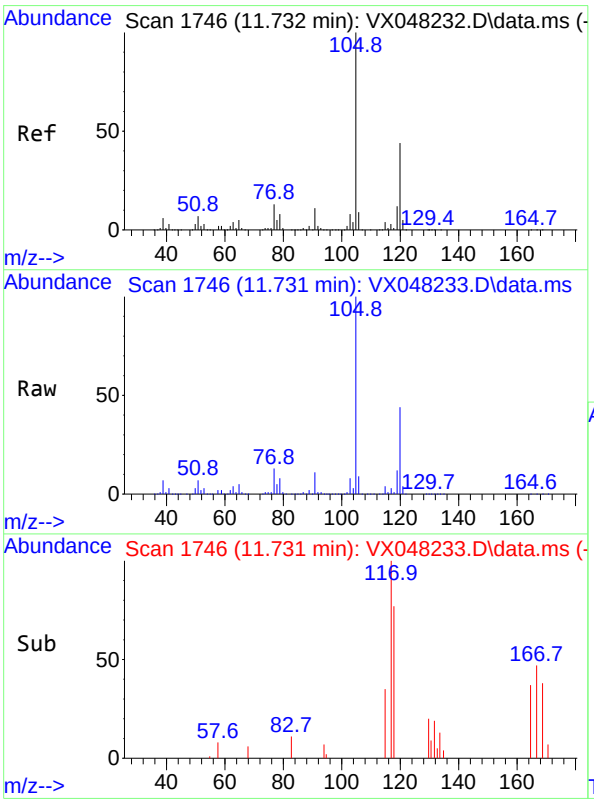
#83
tert-Butylbenzene
Concen: 105.707 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 529264

Ion	Ratio	Lower	Upper
119	100		
91	59.1	30.3	91.0
134	22.3	11.4	34.2

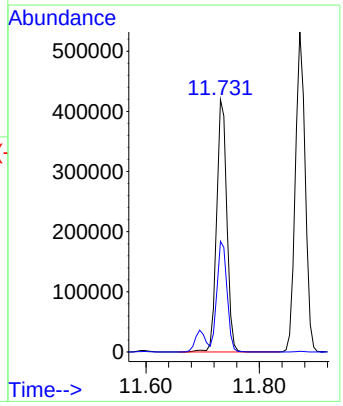


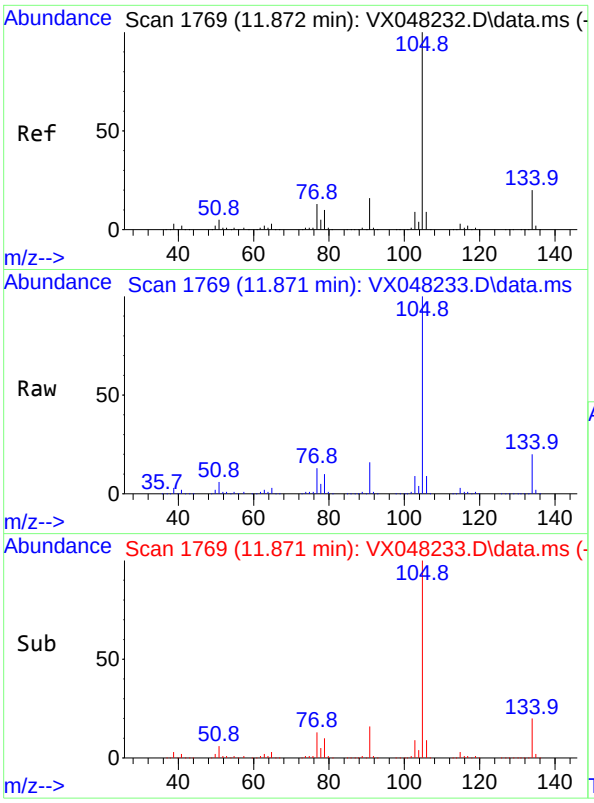


#84
1,2,4-Trimethylbenzene
Concen: 107.638 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:105 Resp: 523474

Ion	Ratio	Lower	Upper
105	100		
120	43.5	22.1	66.5



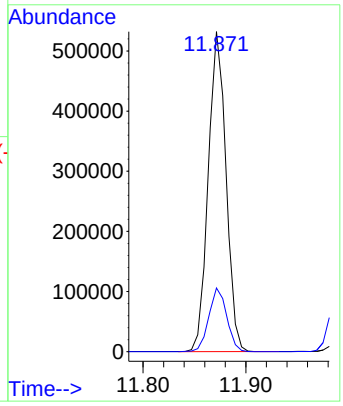


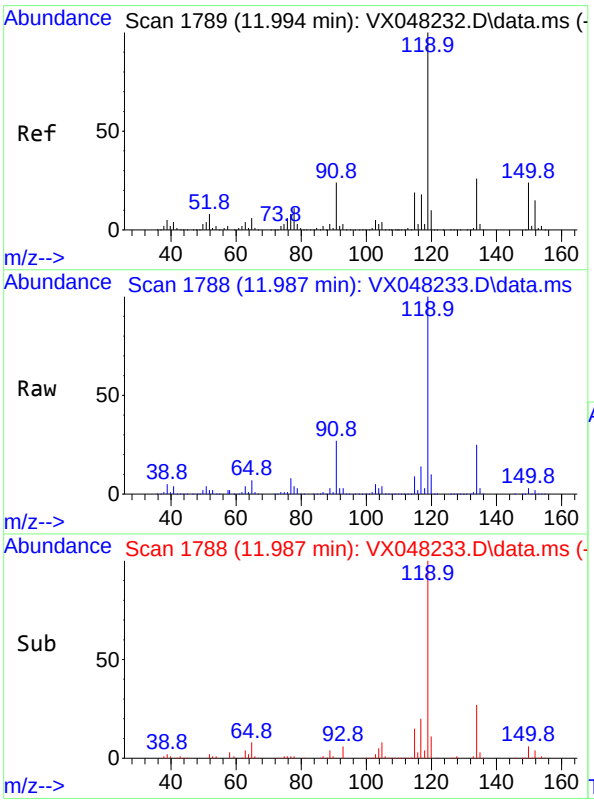
#85
sec-Butylbenzene
Concen: 106.228 ug/l
RT: 11.871 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 639904

Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.1	30.1

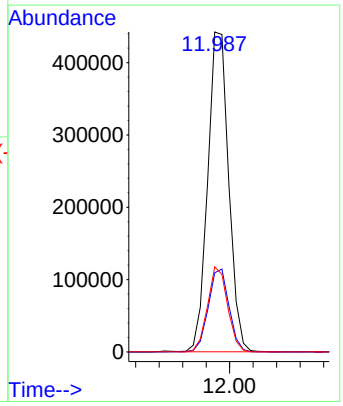


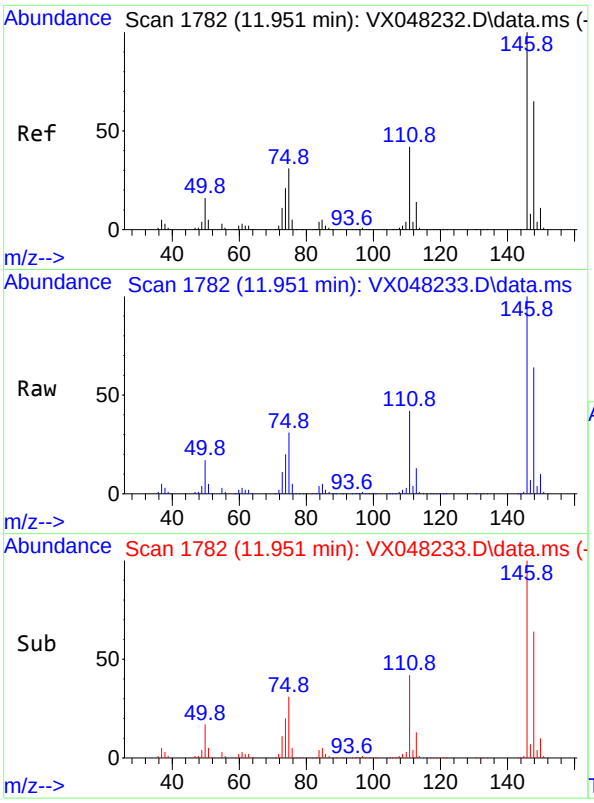


#86
p-Isopropyltoluene
Concen: 105.271 ug/l
RT: 11.987 min Scan# 1788
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:119 Resp: 548119

Ion	Ratio	Lower	Upper
119	100		
134	25.7	13.0	39.0
91	25.5	12.1	36.3



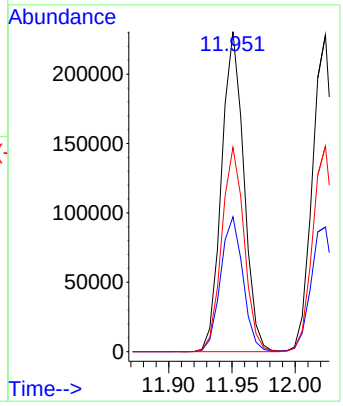


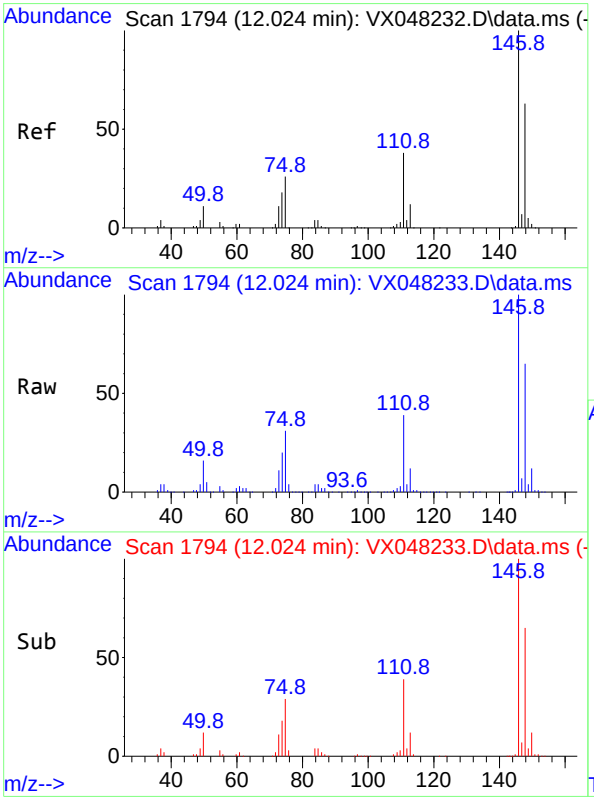
#87
1,3-Dichlorobenzene
Concen: 101.174 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 281617

Ion	Ratio	Lower	Upper
146	100		
111	42.4	20.4	61.2
148	64.2	31.9	95.9

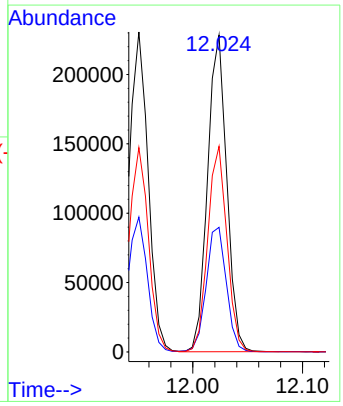


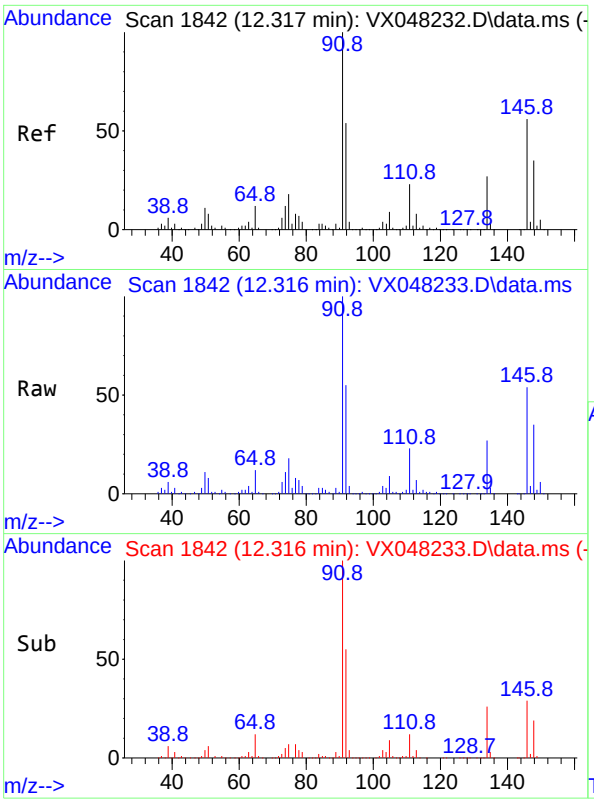


#88
1,4-Dichlorobenzene
Concen: 96.377 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:146 Resp: 277908

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.1	60.2
148	65.0	31.8	95.3



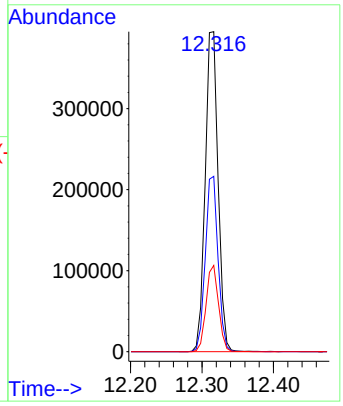


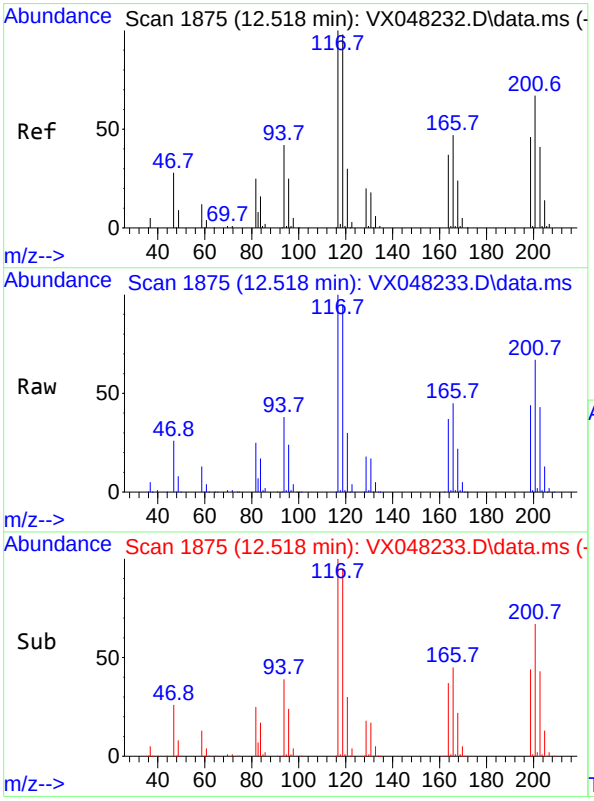
#89
n-Butylbenzene
Concen: 104.552 ug/l
RT: 12.316 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 495486

Ion	Ratio	Lower	Upper
91	100		
92	54.3	26.9	80.6
134	26.1	12.7	38.1

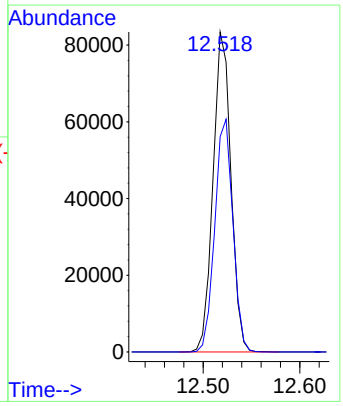


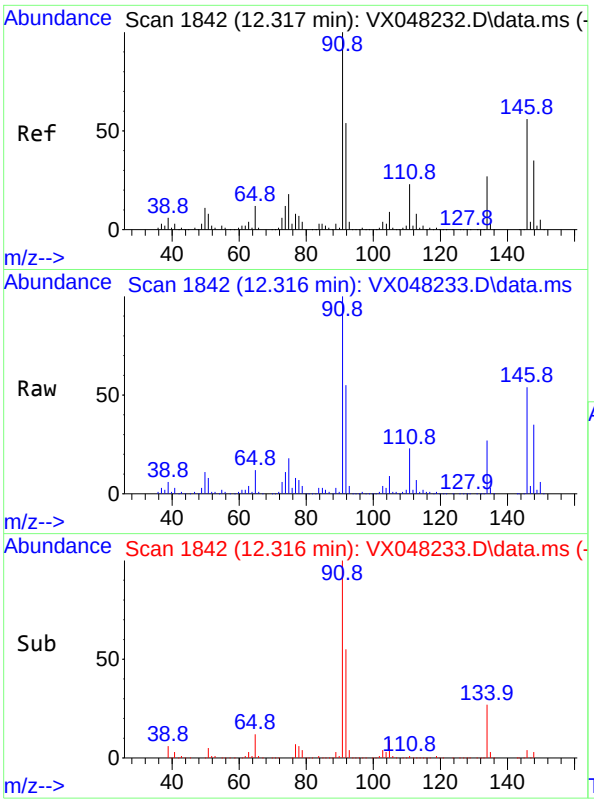


#90
Hexachloroethane
Concen: 104.121 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:117 Resp: 107057

Ion	Ratio	Lower	Upper
117	100		
201	73.5	34.1	102.2



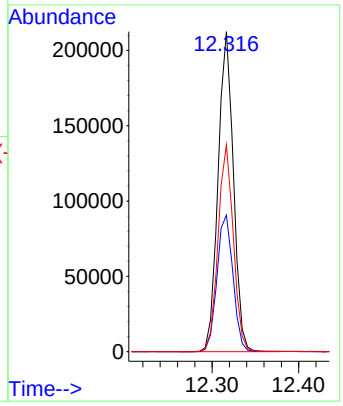


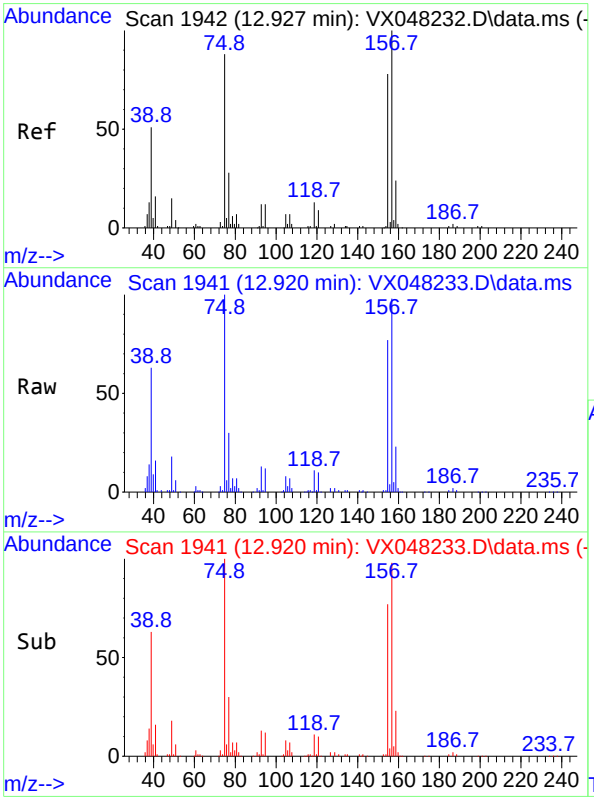
#91
1,2-Dichlorobenzene
Concen: 99.880 ug/l
RT: 12.316 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 261022

Ion	Ratio	Lower	Upper
146	100		
111	44.7	21.9	65.5
148	64.5	31.9	95.5

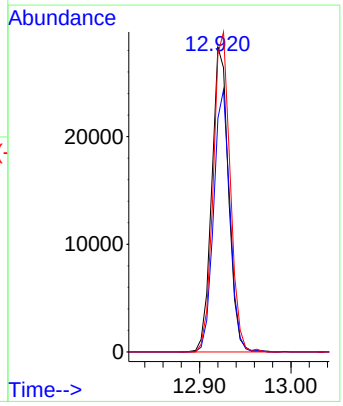


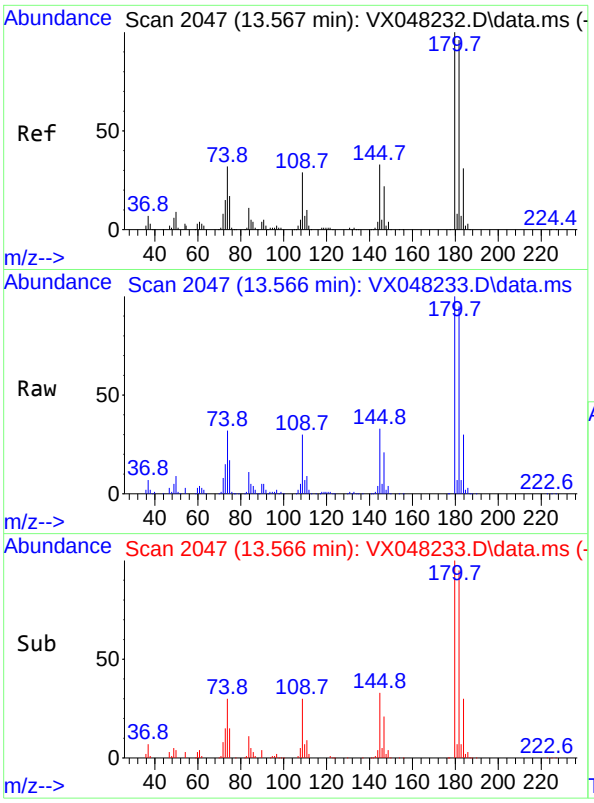


#92
1,2-Dibromo-3-Chloropropane
Concen: 110.555 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 75 Resp: 36087

Ion	Ratio	Lower	Upper
75	100		
155	83.6	42.8	128.4
157	105.4	54.2	162.6



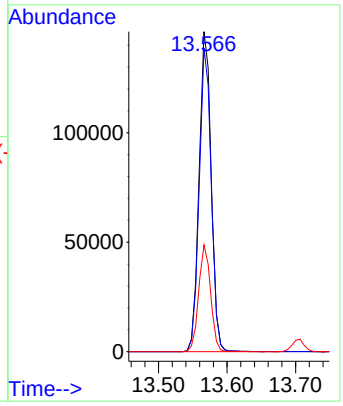


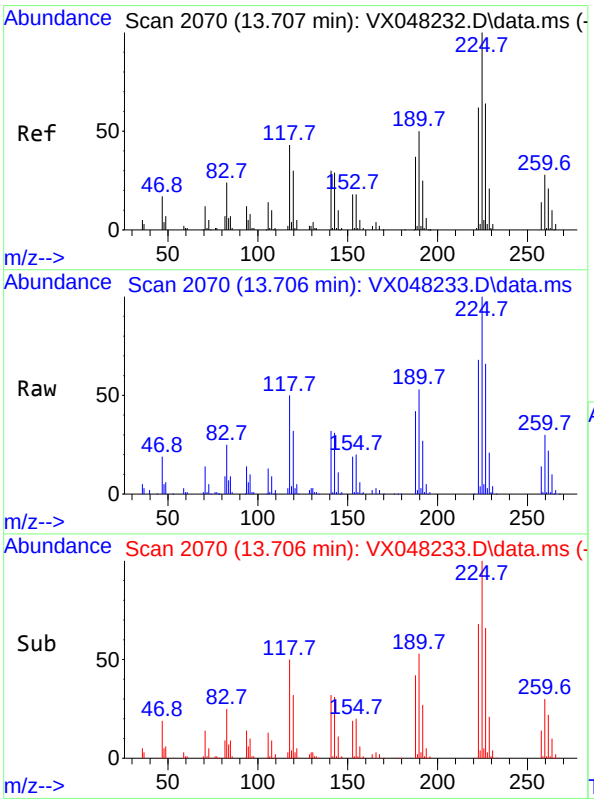
#93
1,2,4-Trichlorobenzene
Concen: 101.602 ug/l
RT: 13.566 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:180 Resp: 179562

Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.3	142.0
145	33.0	16.3	48.9

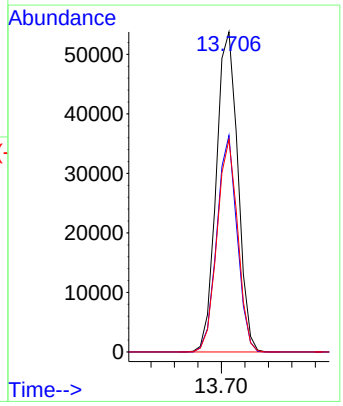


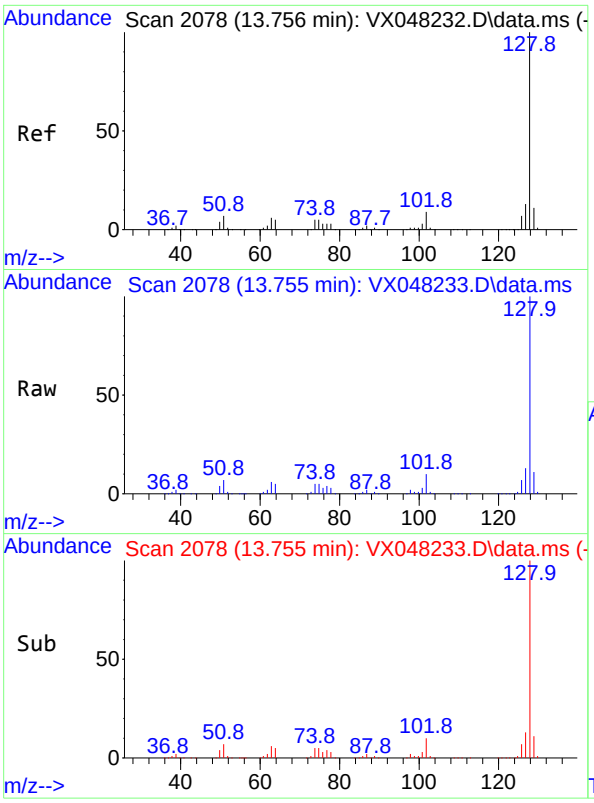


#94
Hexachlorobutadiene
Concen: 103.582 ug/l
RT: 13.706 min Scan# 2070
Delta R.T. 0.005 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:225 Resp: 68645

Ion	Ratio	Lower	Upper
225	100		
223	63.3	32.6	97.7
227	63.5	32.5	97.4



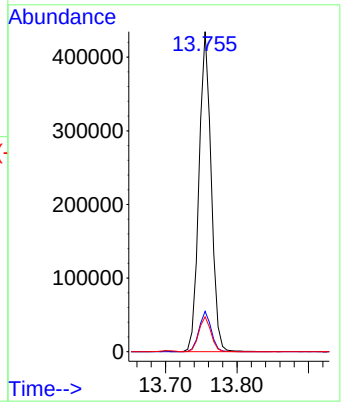


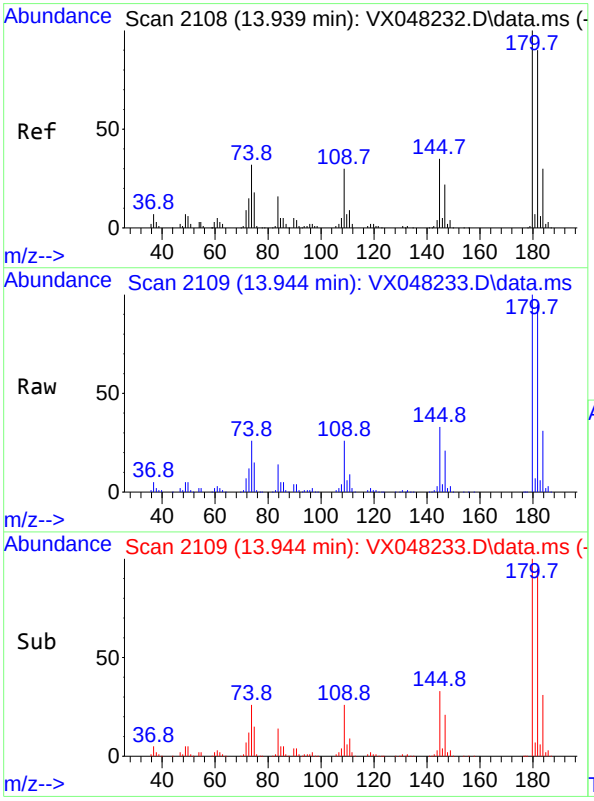
#95
Naphthalene
Concen: 109.211 ug/l
RT: 13.755 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 511355

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.4
129	10.9	8.6	12.8

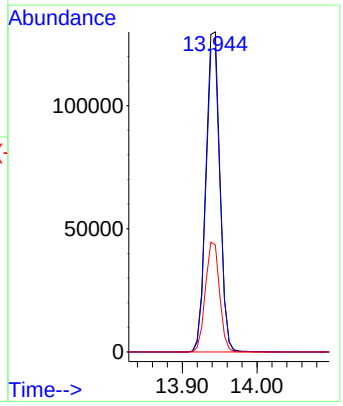




#96
1,2,3-Trichlorobenzene
Concen: 104.362 ug/l
RT: 13.944 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:180 Resp: 169248

Ion	Ratio	Lower	Upper
180	100		
182	95.5	46.6	139.7
145	34.6	16.9	50.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048234.D
Acq On : 20 Oct 2025 12:43
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Oct 25 03:36:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	112063	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	180904	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	155759	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	75397	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	234807	149.444	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 298.880%#			
35) Dibromofluoromethane	5.373	113	188821	152.889	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 305.780%#			
50) Toluene-d8	8.635	98	648652	149.843	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 299.680%#			
62) 4-Bromofluorobenzene	11.061	95	239298	145.308	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 290.620%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	169514	147.144	ug/l	95
3) Chloromethane	1.301	50	158322	147.234	ug/l	99
4) Vinyl Chloride	1.380	62	149708	150.348	ug/l	99
5) Bromomethane	1.605	94	92946	137.542	ug/l	97
6) Chloroethane	1.685	64	89813	153.495	ug/l	96
7) Trichlorofluoromethane	1.892	101	292007	152.907	ug/l	99
8) Diethyl Ether	2.136	74	81474	151.624	ug/l	88
9) 1,1,2-Trichlorotrifluo...	2.331	101	184438	152.517	ug/l	96
10) Methyl Iodide	2.453	142	249395	164.048	ug/l	100
11) Tert butyl alcohol	2.959	59	107295	687.786	ug/l	100
12) 1,1-Dichloroethene	2.325	96	178408	151.641	ug/l	95
13) Acrolein	2.239	56	123365	775.377	ug/l	99
14) Allyl chloride	2.666	41	293697	150.358	ug/l	98
15) Acrylonitrile	3.062	53	412892	734.001	ug/l	100
16) Acetone	2.380	43	347029	643.823	ug/l	99
17) Carbon Disulfide	2.514	76	515144	138.930	ug/l	100
18) Methyl Acetate	2.697	43	169402	150.489	ug/l	93
19) Methyl tert-butyl Ether	3.111	73	593033	147.754	ug/l	97
20) Methylene Chloride	2.788	84	190483	145.034	ug/l	94
21) trans-1,2-Dichloroethene	3.093	96	187495	145.082	ug/l	98
22) Diisopropyl ether	3.757	45	571951	146.807	ug/l	93
23) Vinyl Acetate	3.715	43	2367511	760.744	ug/l	96
24) 1,1-Dichloroethane	3.605	63	342500	145.389	ug/l	99
25) 2-Butanone	4.544	43	487152	714.037	ug/l	96
26) 2,2-Dichloropropane	4.465	77	310572	146.061	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	222359	147.429	ug/l	98
28) Bromochloromethane	4.891	49	151812	155.420	ug/l	87
29) Tetrahydrofuran	4.989	42	301745	738.481	ug/l	94
30) Chloroform	5.080	83	358626	142.490	ug/l	98
31) Cyclohexane	5.464	56	291302	149.360	ug/l	91
32) 1,1,1-Trichloroethane	5.373	97	338462	145.916	ug/l	98
36) 1,1-Dichloropropene	5.684	75	249688	142.243	ug/l	99
37) Ethyl Acetate	4.702	43	208614	143.380	ug/l	97
38) Carbon Tetrachloride	5.666	117	307892	142.169	ug/l	100
39) Methylcyclohexane	7.367	83	315911	152.387	ug/l	95
40) Benzene	6.025	78	730908	143.416	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048234.D
Acq On : 20 Oct 2025 12:43
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Oct 25 03:36:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	115351	150.966	ug/l		97
42) 1,2-Dichloroethane	6.074	62	269245	143.169	ug/l		99
43) Isopropyl Acetate	6.324	43	361084	151.084	ug/l		96
44) Trichloroethene	7.110	130	197244	146.572	ug/l		98
45) 1,2-Dichloropropane	7.415	63	180619	149.063	ug/l		99
46) Dibromomethane	7.568	93	135105	143.118	ug/l		94
47) Bromodichloromethane	7.805	83	292063	143.290	ug/l		97
48) Methyl methacrylate	7.677	41	184354	152.865	ug/l		95
49) 1,4-Dioxane	7.647	88	49895	3131.591	ug/l		88
51) 4-Methyl-2-Pentanone	8.561	43	983125	713.457	ug/l		94
52) Toluene	8.702	92	460742	142.307	ug/l		99
53) t-1,3-Dichloropropene	8.964	75	300251	152.861	ug/l		99
54) cis-1,3-Dichloropropene	8.354	75	317375	149.763	ug/l		94
55) 1,1,2-Trichloroethane	9.135	97	169894	141.104	ug/l		98
56) Ethyl methacrylate	9.104	69	272177	154.550	ug/l		94
57) 1,3-Dichloropropane	9.293	76	293650	142.782	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.232	63	705780	741.966	ug/l		95
59) 2-Hexanone	9.415	43	694736	723.047	ug/l		96
60) Dibromochloromethane	9.506	129	226642	140.050	ug/l		99
61) 1,2-Dibromoethane	9.592	107	182208	141.953	ug/l		99
64) Tetrachloroethene	9.263	164	168581	144.982	ug/l		91
65) Chlorobenzene	10.061	112	514967	146.973	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.147	131	191186	148.558	ug/l		98
67) Ethyl Benzene	10.177	91	898137	150.554	ug/l		99
68) m/p-Xylenes	10.287	106	661019	298.230	ug/l		99
69) o-Xylene	10.622	106	320334	149.698	ug/l		99
70) Styrene	10.640	104	548149	150.439	ug/l		98
71) Bromoform	10.781	173	152209	147.980	ug/l	#	99
73) Isopropylbenzene	10.945	105	849183	154.201	ug/l		100
74) N-amyl acetate	10.829	43	314879	161.195	ug/l		95
75) 1,1,2,2-Tetrachloroethane	11.195	83	224486	149.271	ug/l		99
76) 1,2,3-Trichloropropane	11.220	75	268288	219.425	ug/l		78
77) Bromobenzene	11.183	156	207212	150.063	ug/l		94
78) n-propylbenzene	11.287	91	991960	155.573	ug/l		98
79) 2-Chlorotoluene	11.348	91	585792	151.532	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	699885	153.574	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	83158	165.469	ug/l		97
82) 4-Chlorotoluene	11.439	91	691903	150.773	ug/l		99
83) tert-Butylbenzene	11.695	119	717642	153.261	ug/l		98
84) 1,2,4-Trimethylbenzene	11.732	105	707074	155.464	ug/l		99
85) sec-Butylbenzene	11.872	105	861466	152.918	ug/l		100
86) p-Isopropyltoluene	11.994	119	738496	151.662	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	386062	148.308	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	386885	143.466	ug/l		100
89) n-Butylbenzene	12.311	91	664071	149.834	ug/l		99
90) Hexachloroethane	12.518	117	145813	151.639	ug/l		94
91) 1,2-Dichlorobenzene	12.317	146	359278	147.003	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	50367	164.993	ug/l		98
93) 1,2,4-Trichlorobenzene	13.567	180	247472	149.729	ug/l		100
94) Hexachlorobutadiene	13.707	225	92458	149.152	ug/l		100
95) Naphthalene	13.756	128	719433	164.296	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	233671	154.069	ug/l		97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048234.D
Acq On : 20 Oct 2025 12:43
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Oct 25 03:36:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

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

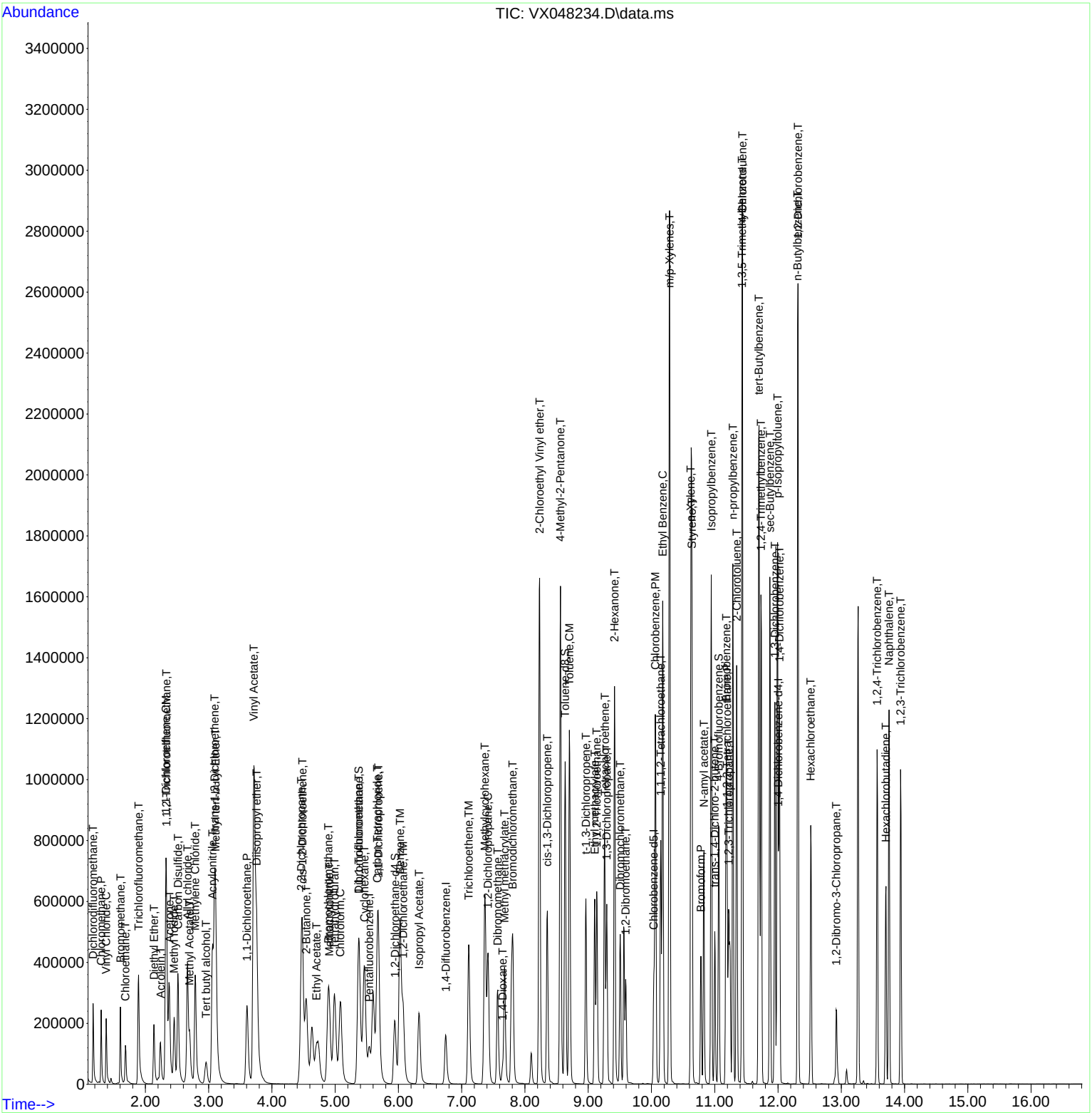
(#) = qualifier out of range (m) = manual integration (+) = signals summed

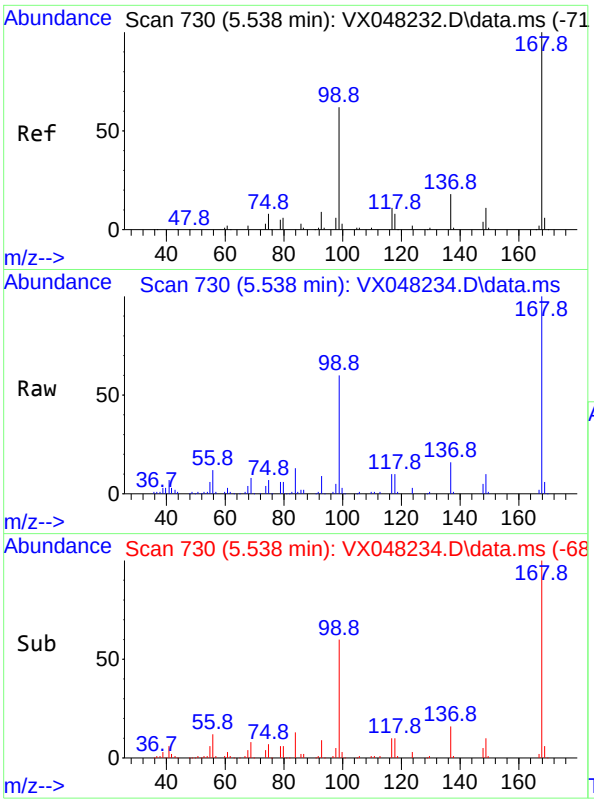
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048234.D
Acq On : 20 Oct 2025 12:43
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Oct 25 03:36:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration



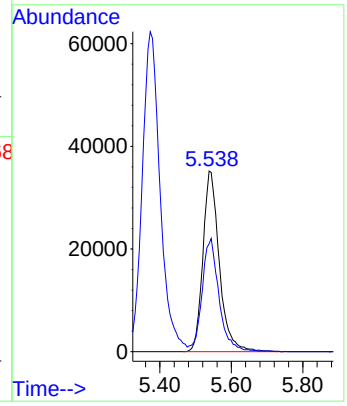


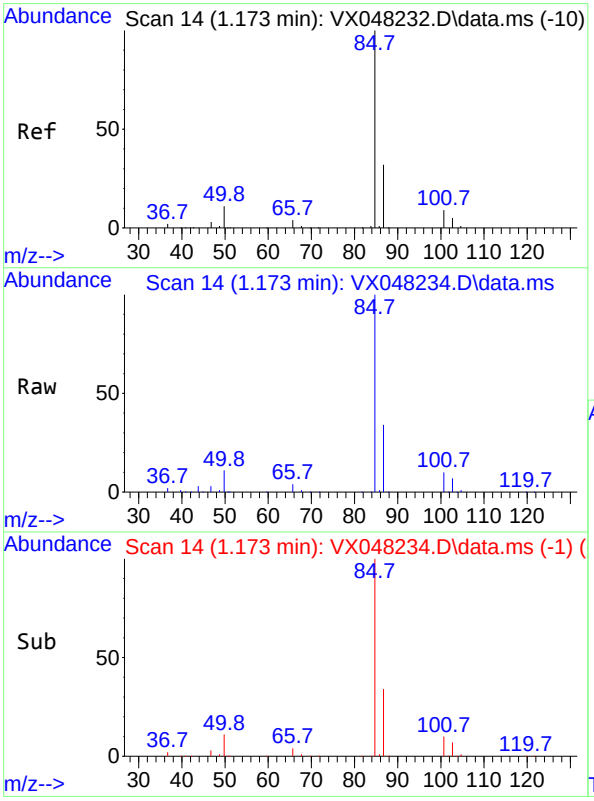
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 112063

Ion	Ratio	Lower	Upper
168	100		
99	59.8	46.4	69.6

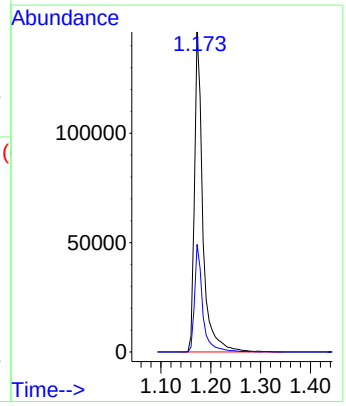


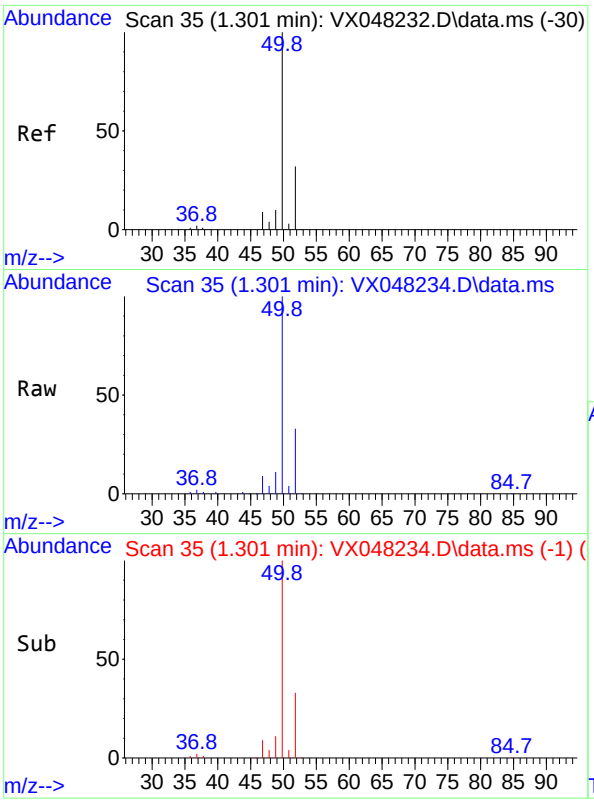


#2
Dichlorodifluoromethane
Concen: 147.144 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 85 Resp: 169514

Ion	Ratio	Lower	Upper
85	100		
87	33.6	15.3	45.9



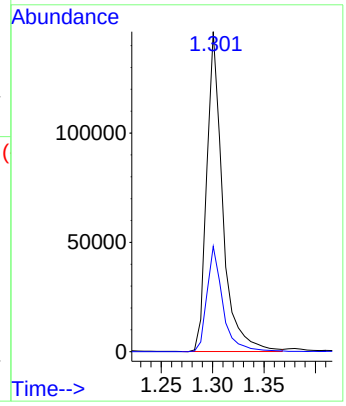


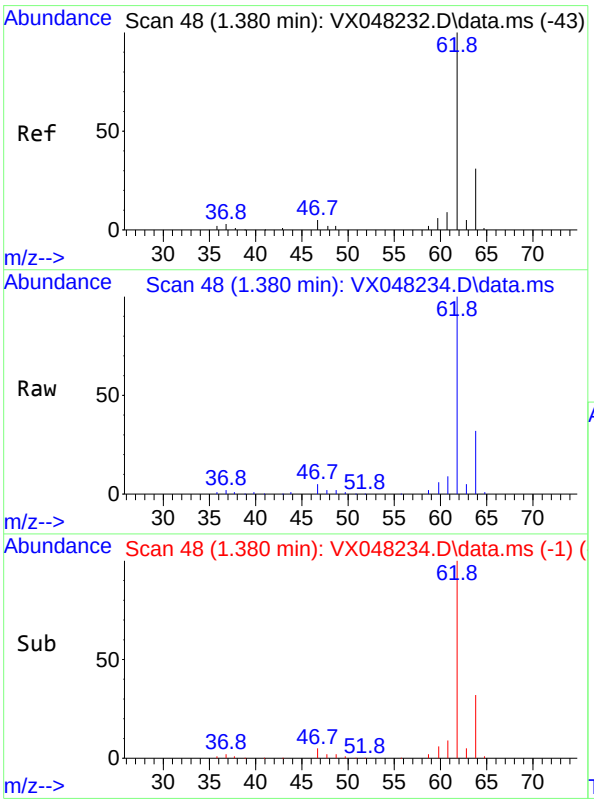
#3
Chloromethane
Concen: 147.234 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 158322

Ion	Ratio	Lower	Upper
50	100		
52	32.9	25.9	38.9

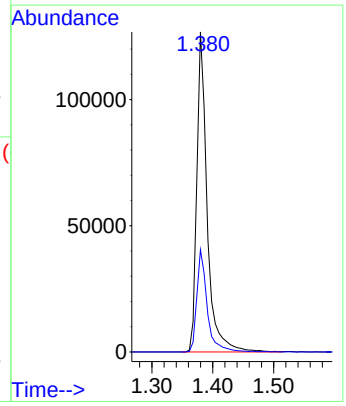


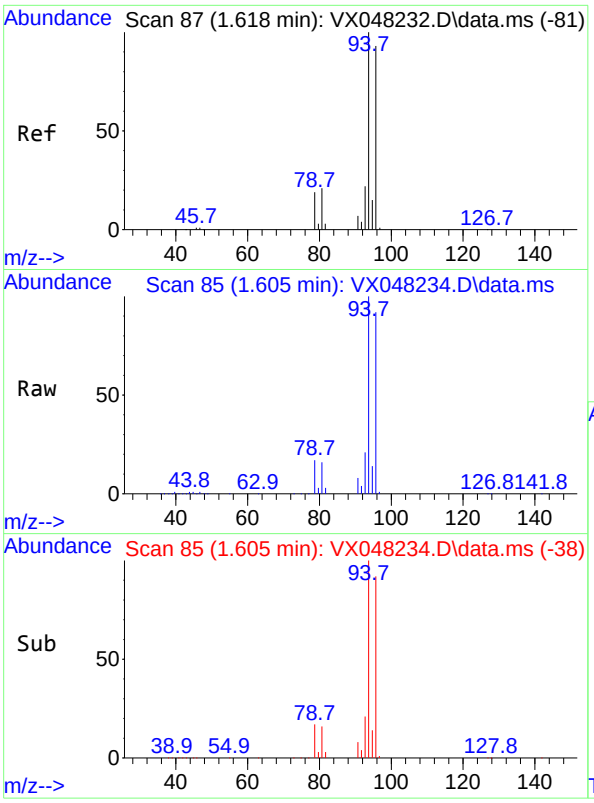


#4
Vinyl Chloride
Concen: 150.348 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 62 Resp: 149708

Ion	Ratio	Lower	Upper
62	100		
64	32.0	25.1	37.7



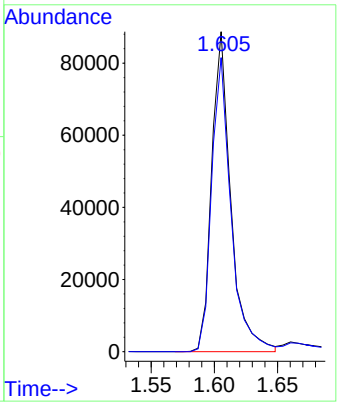


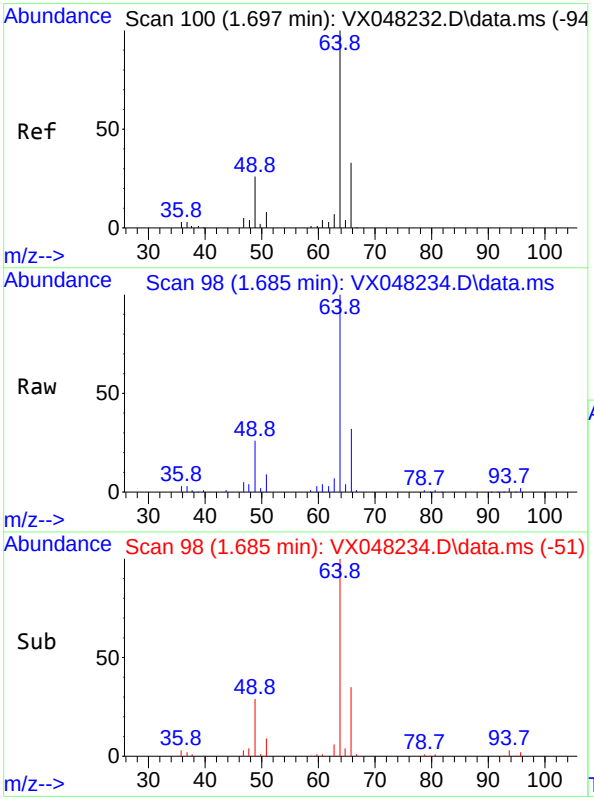
#5
Bromomethane
Concen: 137.542 ug/l
RT: 1.605 min Scan# 8
Delta R.T. -0.012 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 92946

Ion	Ratio	Lower	Upper
94	100		
96	91.9	76.0	114.0

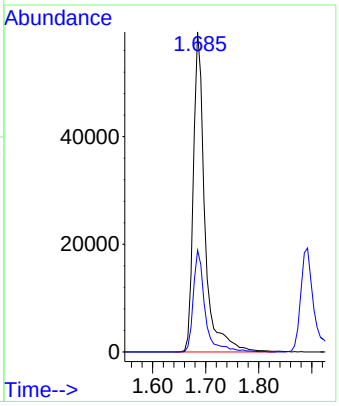


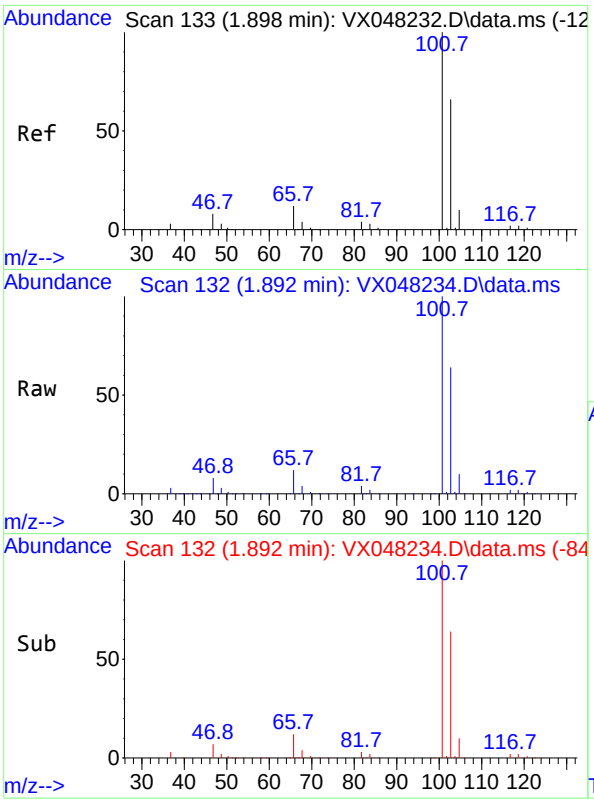


#6
Chloroethane
Concen: 153.495 ug/l
RT: 1.685 min Scan# 98
Delta R.T. -0.012 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 64 Resp: 89813

Ion	Ratio	Lower	Upper
64	100		
66	31.8	23.9	35.9



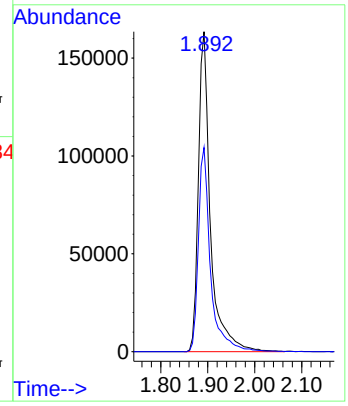


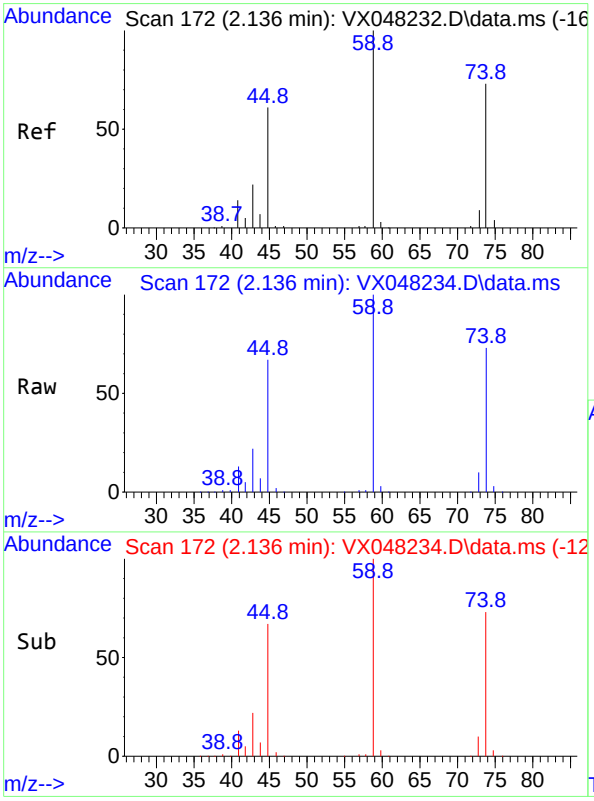
#7
Trichlorofluoromethane
Concen: 152.907 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 292007

Ion	Ratio	Lower	Upper
101	100		
103	63.8	51.6	77.4

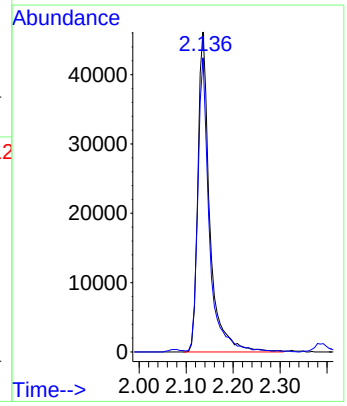


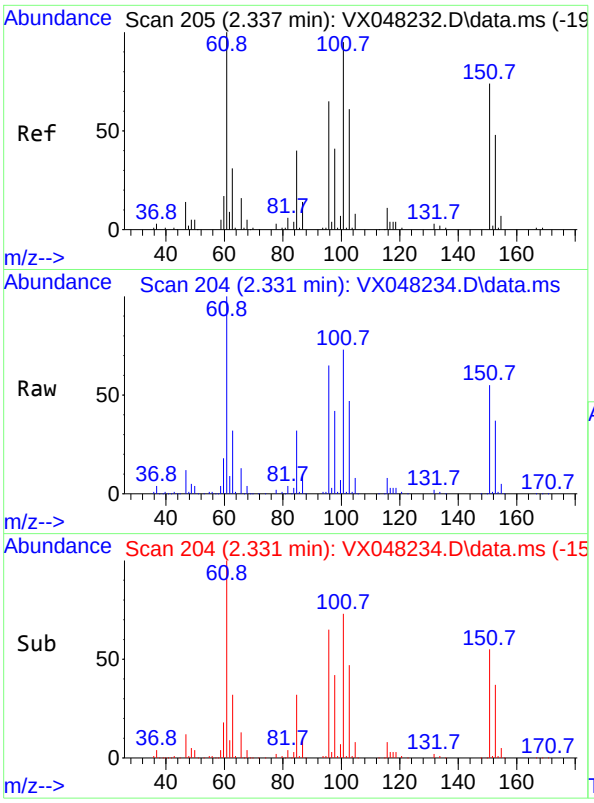


#8
Diethyl Ether
Concen: 151.624 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 74 Resp: 81474

Ion	Ratio	Lower	Upper
74	100		
45	87.5	50.0	149.8



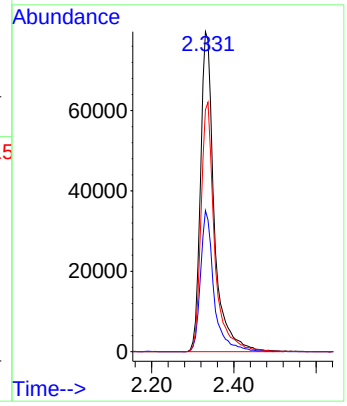


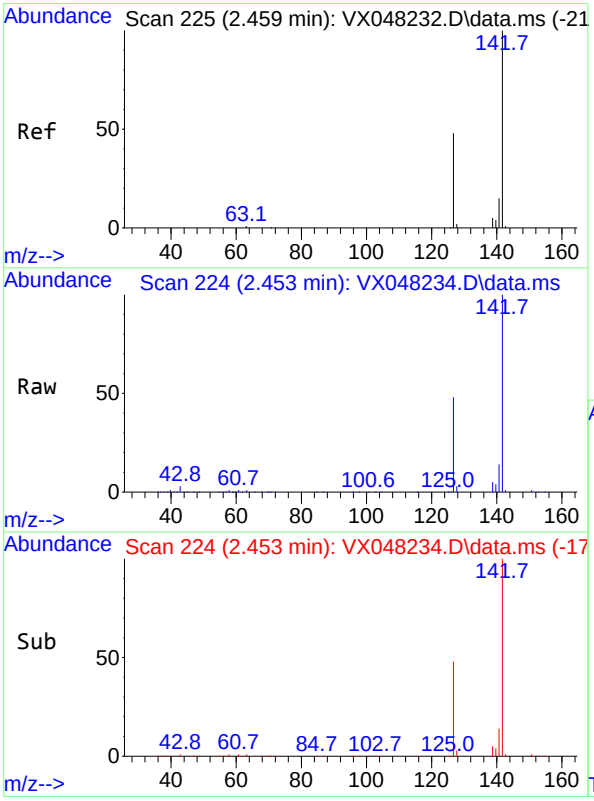
#9
1,1,2-Trichlorotrifluoroethane
Concen: 152.517 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 184438

Ion	Ratio	Lower	Upper
101	100		
85	43.3	35.6	53.4
151	77.4	58.0	87.0

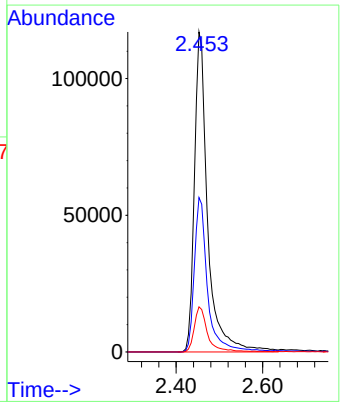


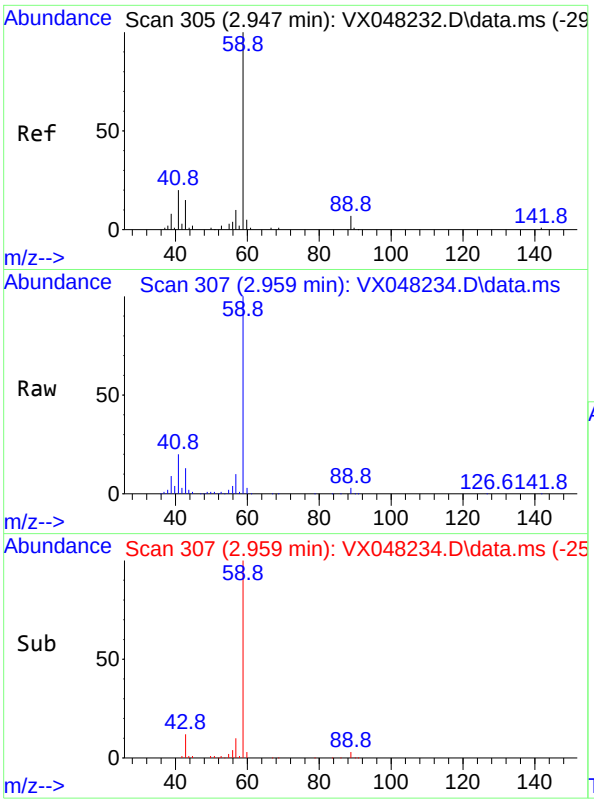


#10
Methyl Iodide
Concen: 164.048 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:142 Resp: 249395

Ion	Ratio	Lower	Upper
142	100		
127	48.2	38.5	57.7
141	14.0	11.6	17.4



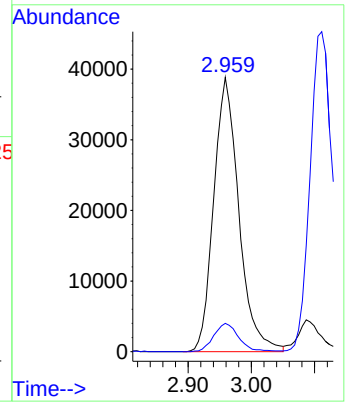


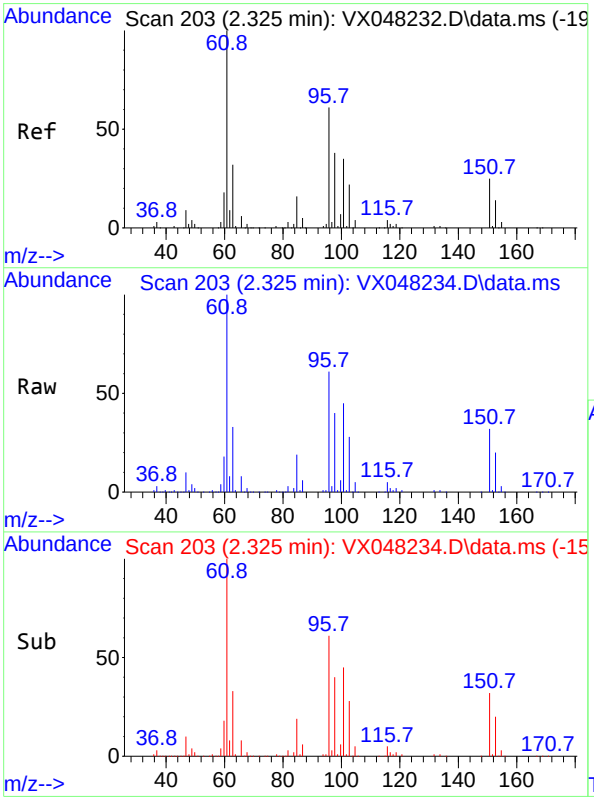
#11
Tert butyl alcohol
Concen: 687.786 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.018 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 59 Resp: 107295

Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.2	12.4

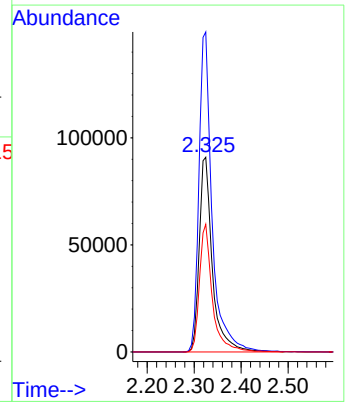


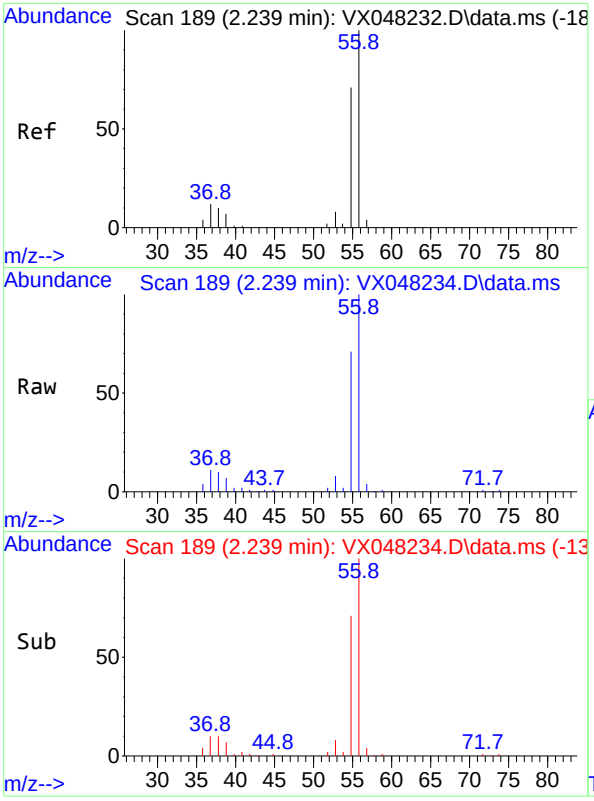


#12
1,1-Dichloroethene
Concen: 151.641 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 96 Resp: 178408

Ion	Ratio	Lower	Upper
96	100		
61	164.3	139.0	208.6
98	65.6	52.4	78.6



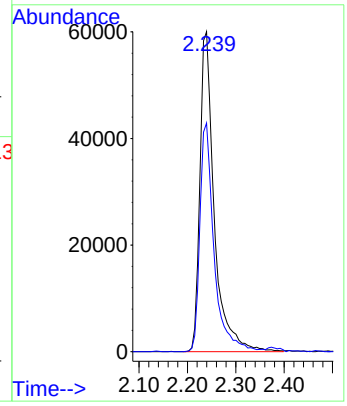


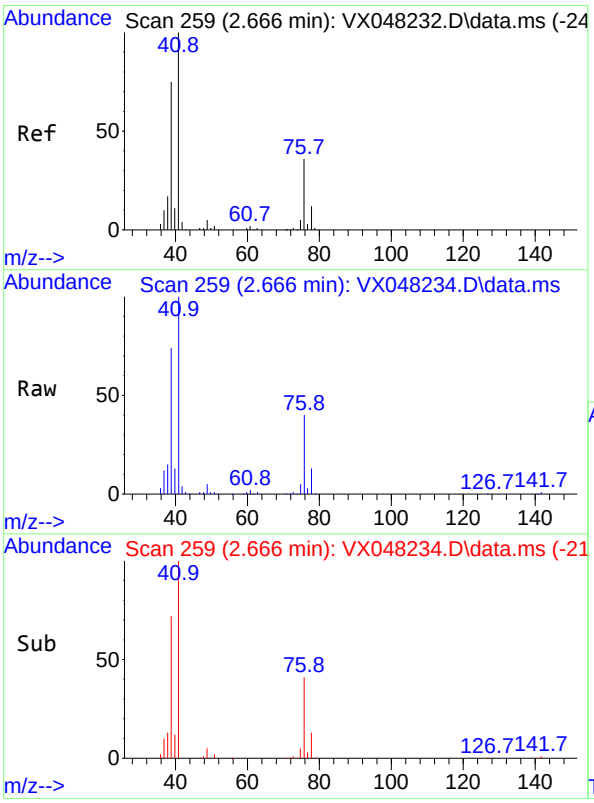
#13
Acrolein
Concen: 775.377 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 123365

Ion	Ratio	Lower	Upper
56	100		
55	70.7	56.1	84.1

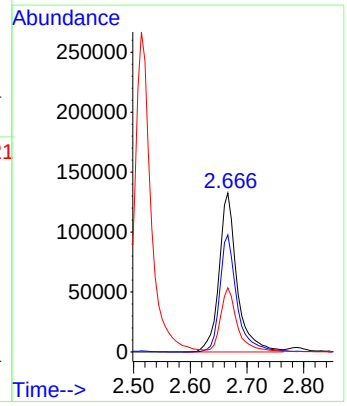


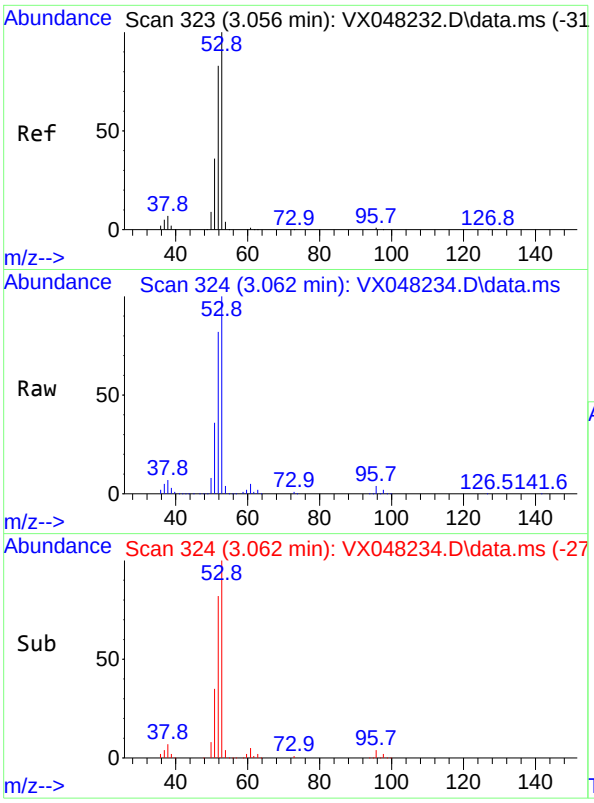


#14
Allyl chloride
Concen: 150.358 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 41 Resp: 293697

Ion	Ratio	Lower	Upper
41	100		
39	70.5	56.0	84.0
76	37.7	27.5	41.3



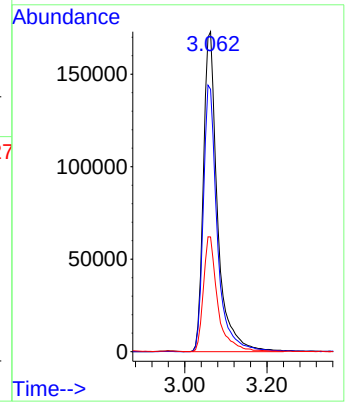


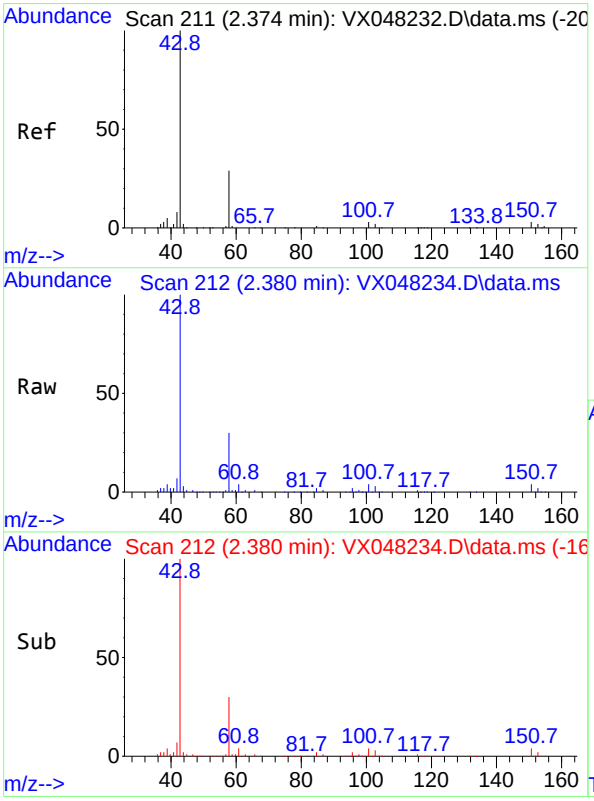
#15
Acrylonitrile
Concen: 734.001 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 53 Resp: 412892

Ion	Ratio	Lower	Upper
53	100		
52	82.7	66.1	99.1
51	36.5	29.0	43.4

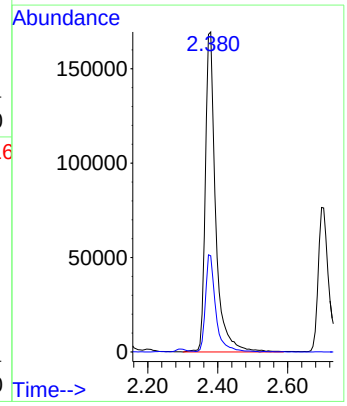


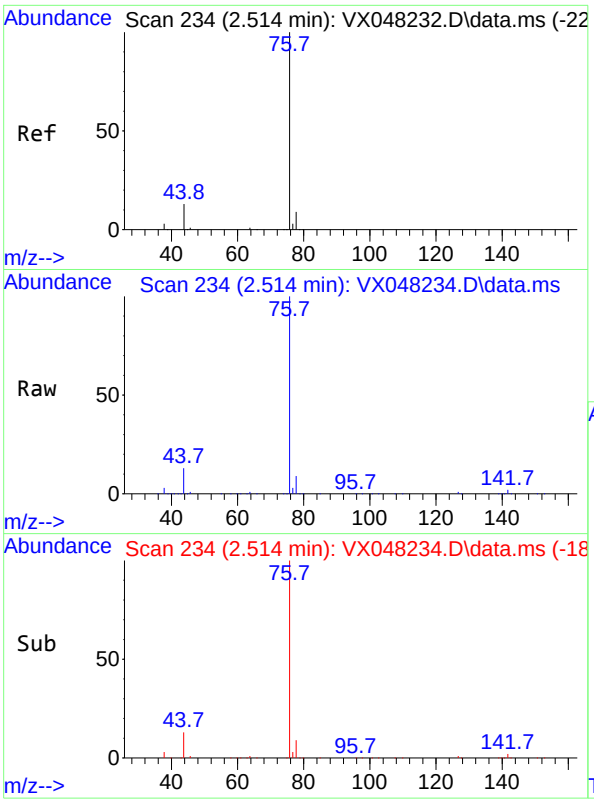


#16
Acetone
Concen: 643.823 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 43 Resp: 347029

Ion	Ratio	Lower	Upper
43	100		
58	30.0	23.4	35.2



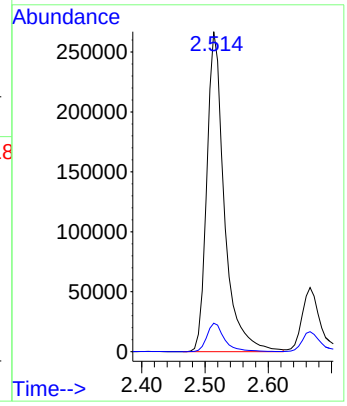


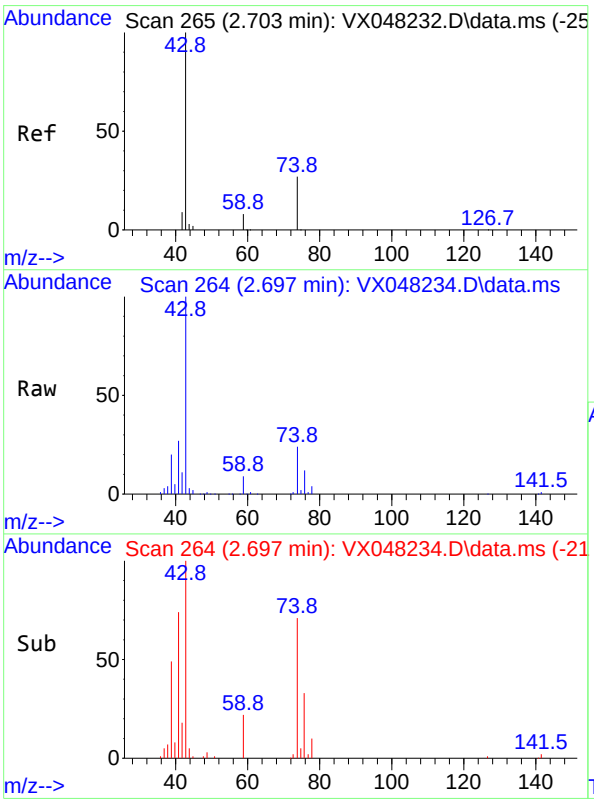
#17
Carbon Disulfide
Concen: 138.930 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 515144

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.1	10.7

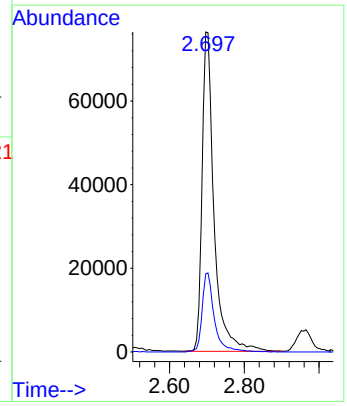


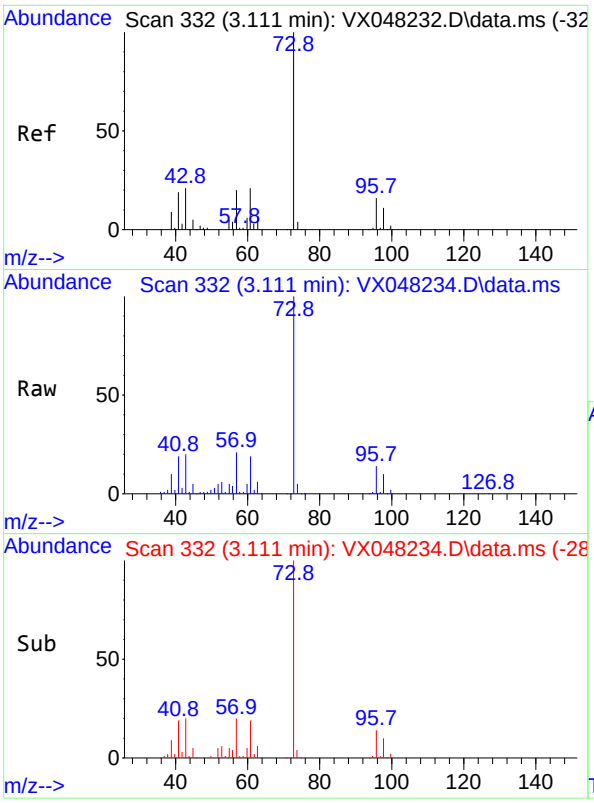


#18
Methyl Acetate
Concen: 150.489 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 43 Resp: 169402

Ion	Ratio	Lower	Upper
43	100		
74	25.2	17.5	26.3



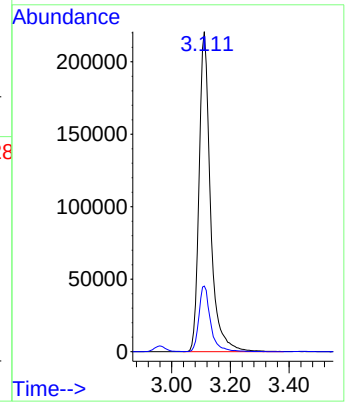


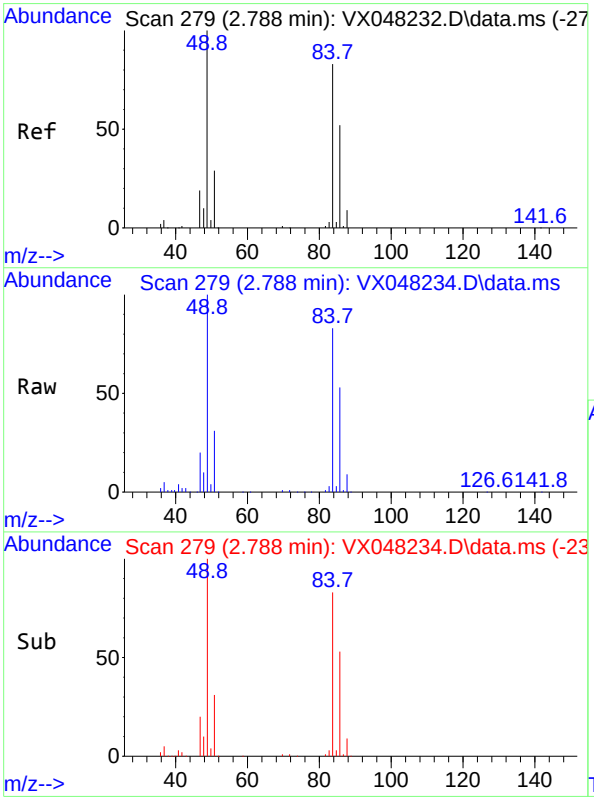
#19
Methyl tert-butyl Ether
Concen: 147.754 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 73 Resp: 593033

Ion	Ratio	Lower	Upper
73	100		
57	20.5	17.7	26.5

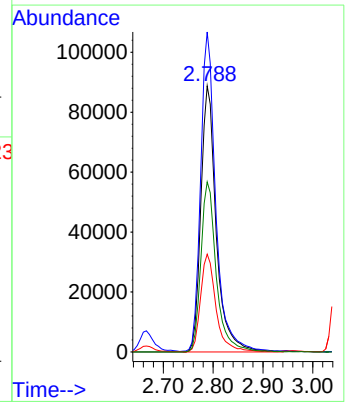


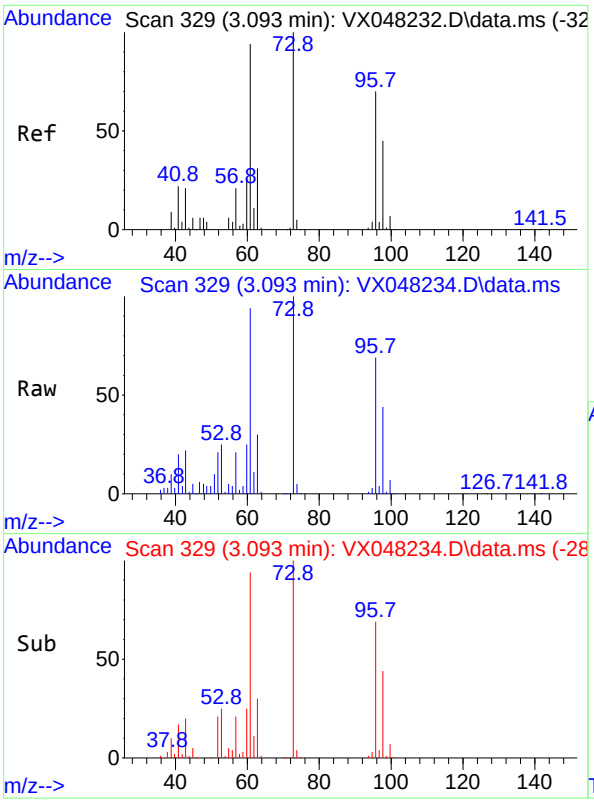


#20
Methylene Chloride
Concen: 145.034 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 84 Resp: 190483

Ion	Ratio	Lower	Upper
84	100		
49	120.0	104.1	156.1
51	36.7	31.3	46.9
86	63.9	51.3	76.9



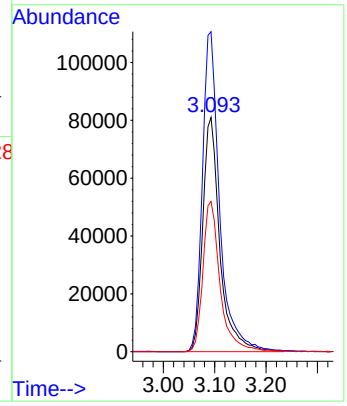


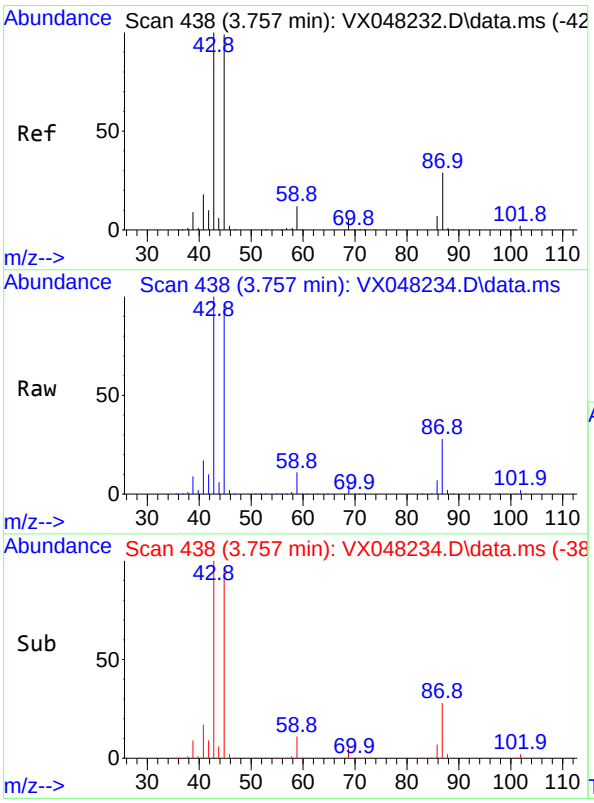
#21
trans-1,2-Dichloroethene
Concen: 145.082 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 187495

Ion	Ratio	Lower	Upper
96	100		
61	136.6	111.9	167.9
98	64.1	51.2	76.8

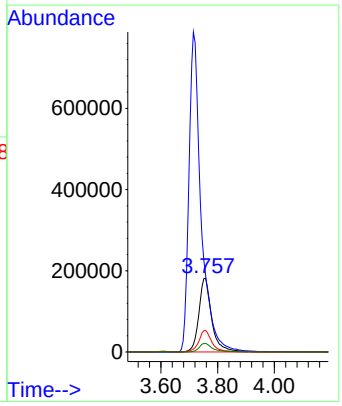


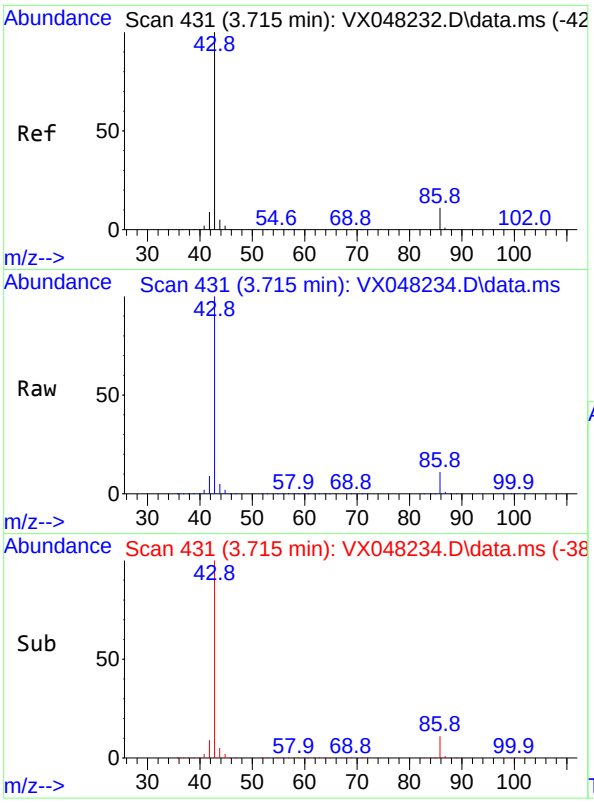


#22
Diisopropyl ether
Concen: 146.807 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 45 Resp: 571951

Ion	Ratio	Lower	Upper
45	100		
43	104.2	89.8	134.8
87	29.4	20.6	31.0
59	11.7	9.1	13.7



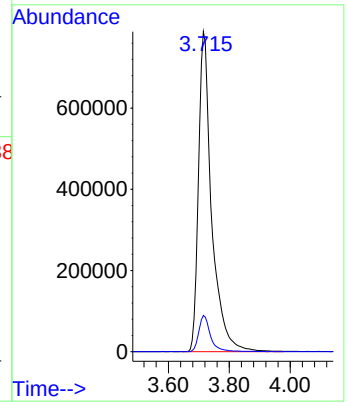


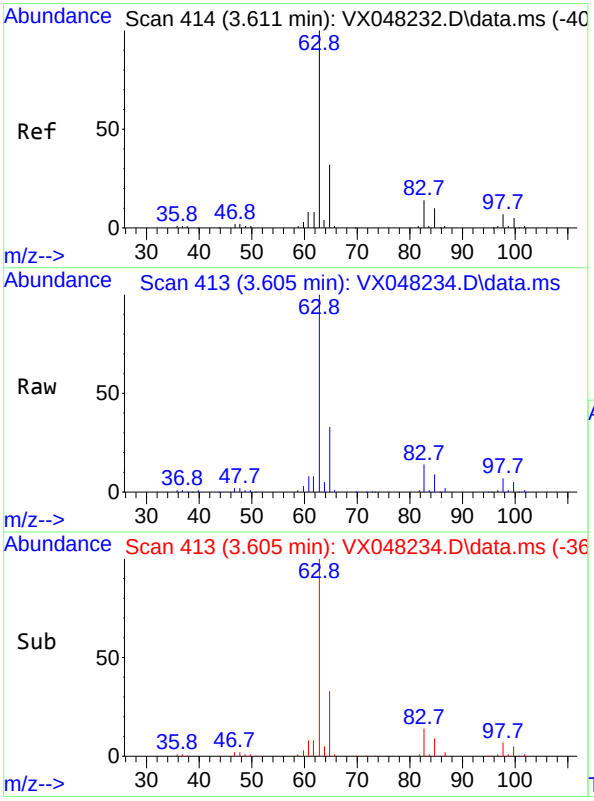
#23
Vinyl Acetate
Concen: 760.744 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 2367511

Ion	Ratio	Lower	Upper
43	100		
86	11.3	7.9	11.9

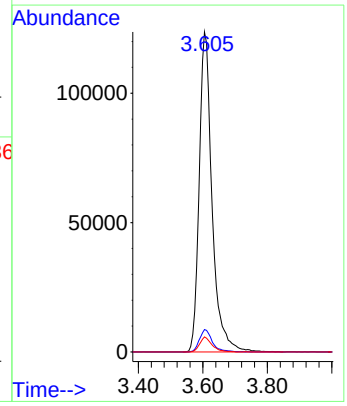


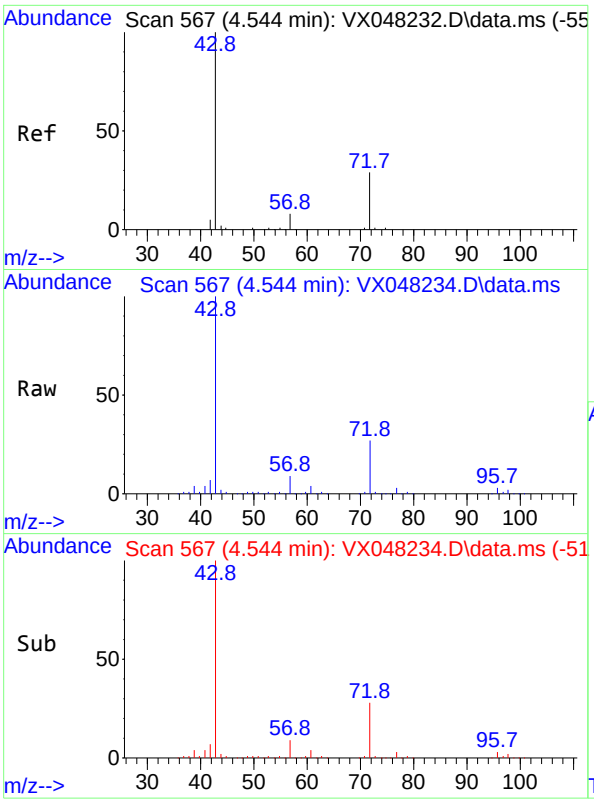


#24
1,1-Dichloroethane
Concen: 145.389 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 63 Resp: 342500

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.6
100	4.7	2.1	6.3



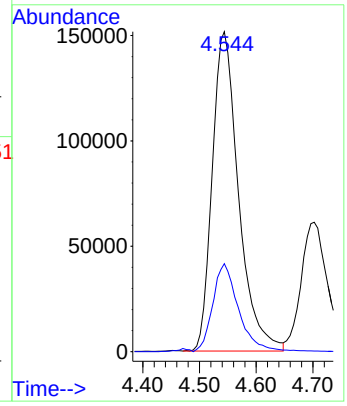


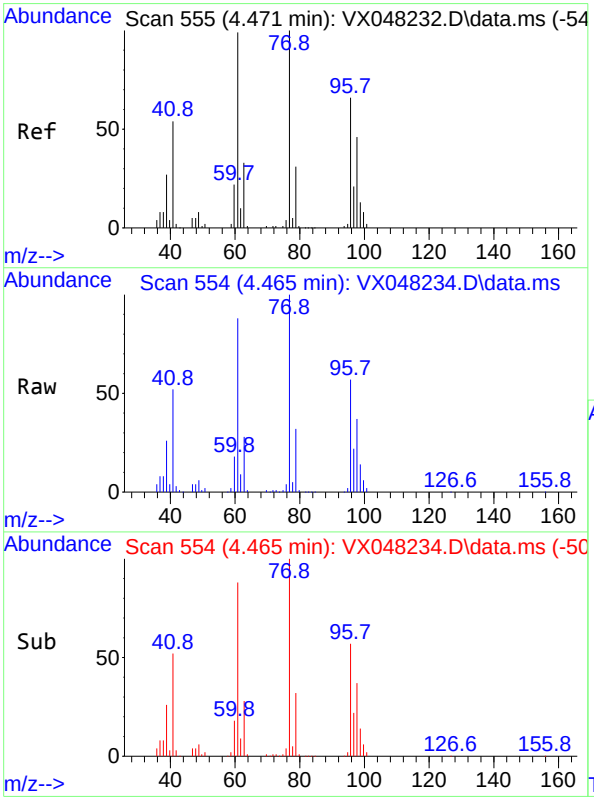
#25
2-Butanone
Concen: 714.037 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 487152

Ion	Ratio	Lower	Upper
43	100		
72	27.0	19.9	29.9

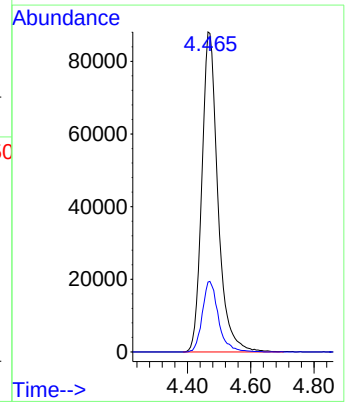


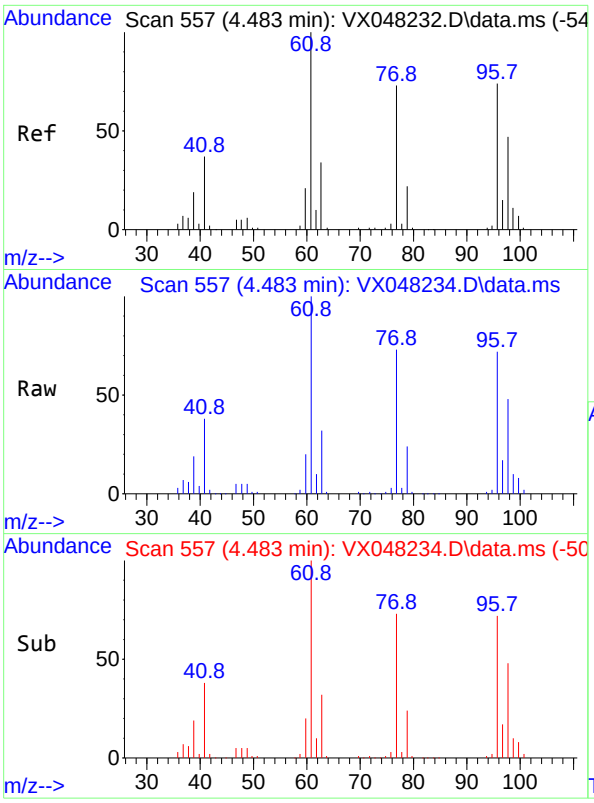


#26
2,2-Dichloropropane
Concen: 146.061 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 77 Resp: 310572

Ion	Ratio	Lower	Upper
77	100		
97	22.2	11.1	33.3



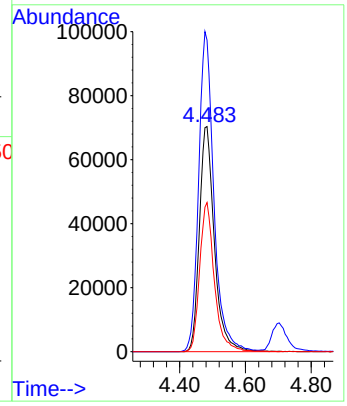


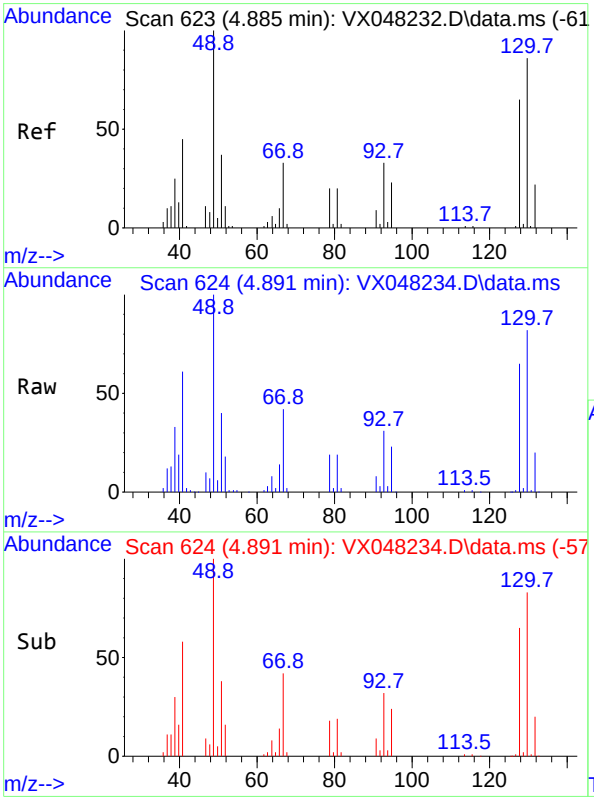
#27
cis-1,2-Dichloroethene
Concen: 147.429 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 222359

Ion	Ratio	Lower	Upper
96	100		
61	144.4	0.0	294.2
98	65.1	0.0	128.4

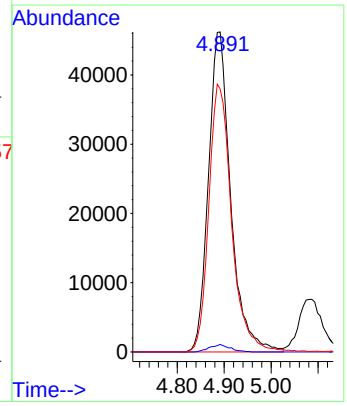


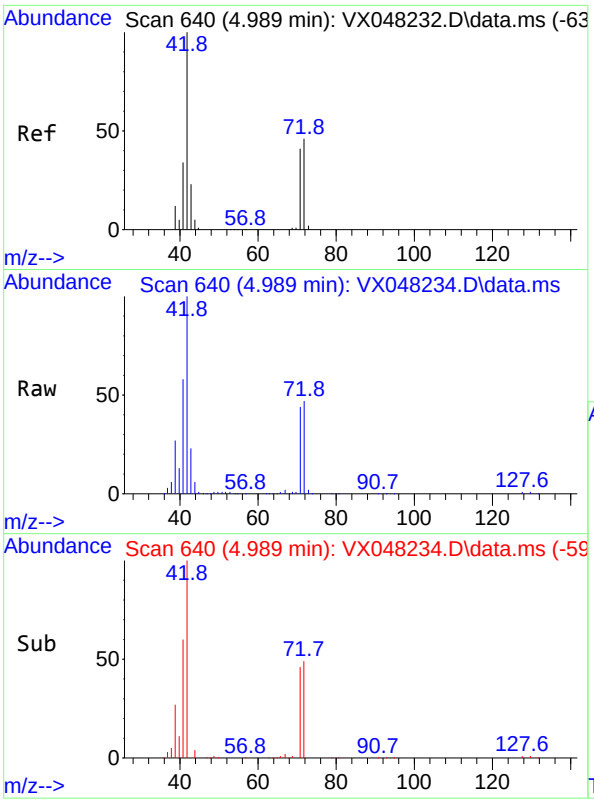


#28
Bromochloromethane
Concen: 155.420 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 49 Resp: 151812

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.4
130	85.6	59.3	88.9



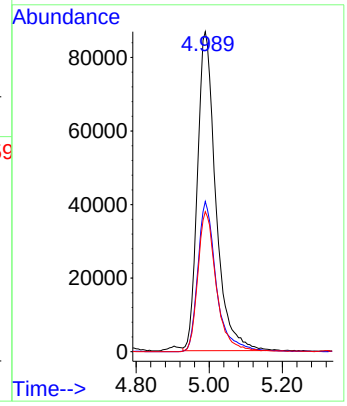


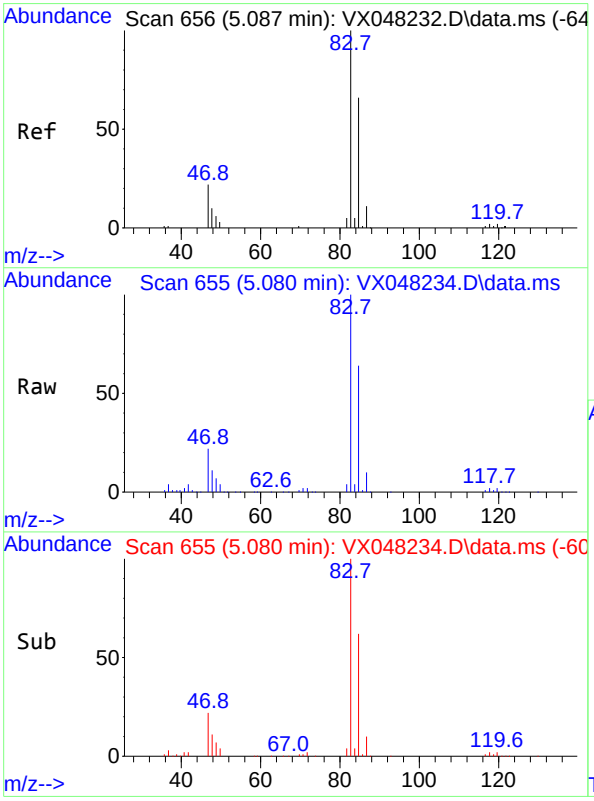
#29
Tetrahydrofuran
Concen: 738.481 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 42 Resp: 301745

Ion	Ratio	Lower	Upper
42	100		
72	47.8	35.3	52.9
71	44.1	32.2	48.4

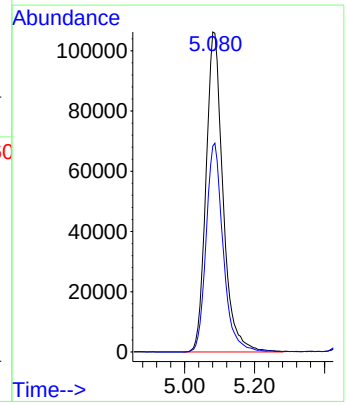


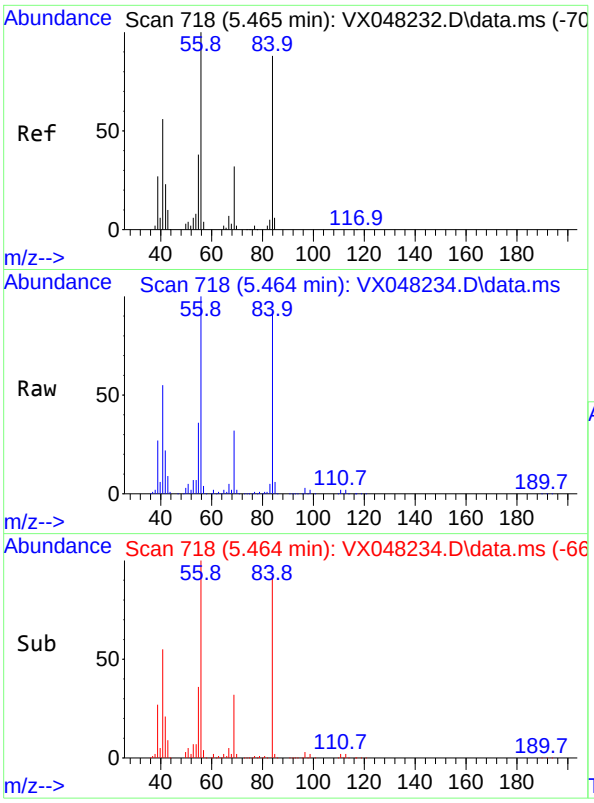


#30
Chloroform
Concen: 142.490 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 83 Resp: 358626

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.1	75.1



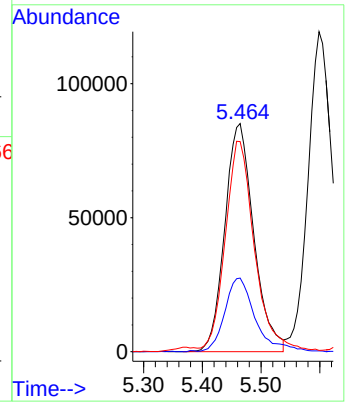


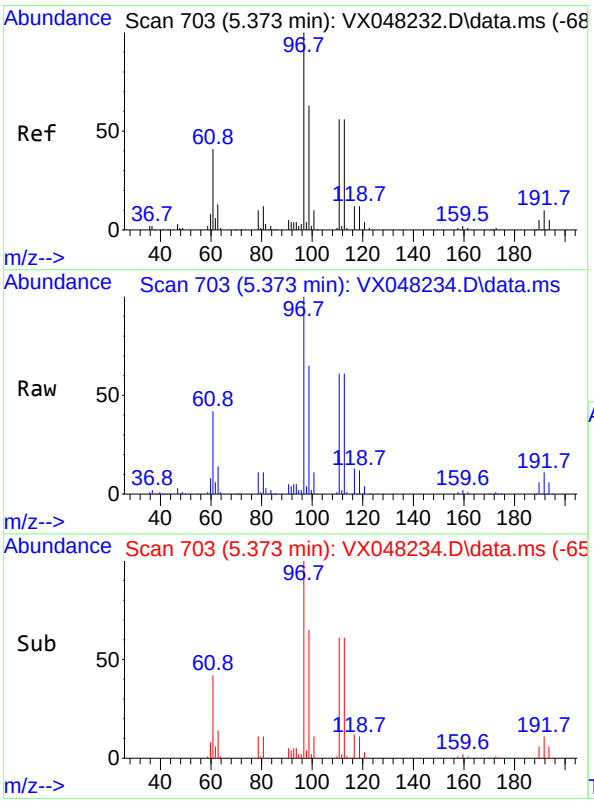
#31
Cyclohexane
Concen: 149.360 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 291302

Ion	Ratio	Lower	Upper
56	100		
69	32.3	23.0	34.6
84	90.1	64.6	97.0

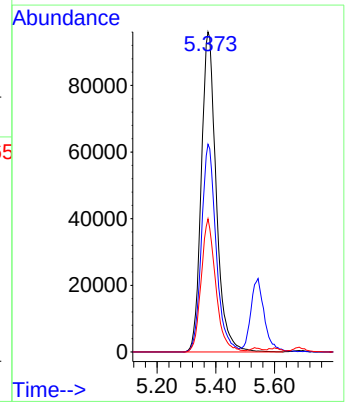


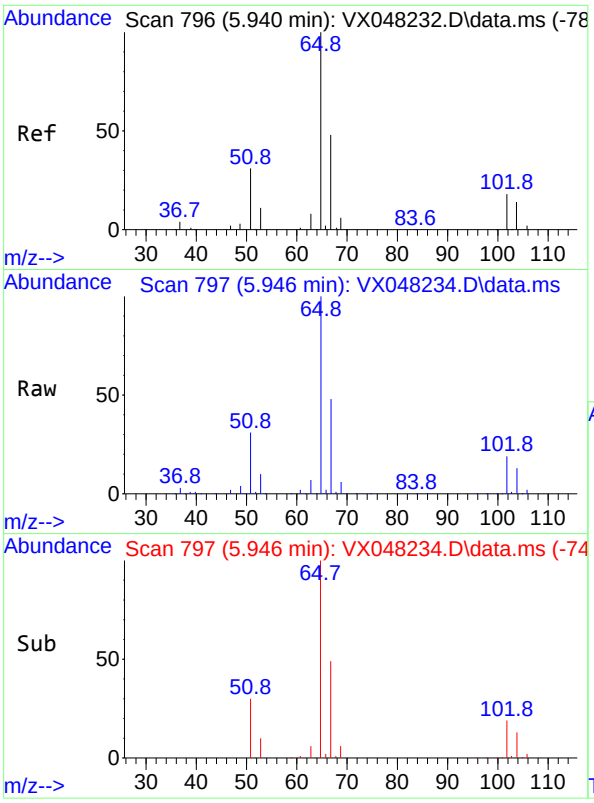


#32
1,1,1-Trichloroethane
Concen: 145.916 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 97 Resp: 338462

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.7	77.5
61	40.8	34.8	52.2



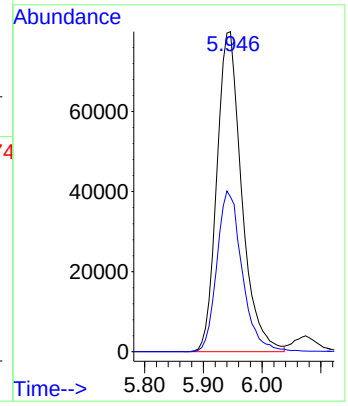


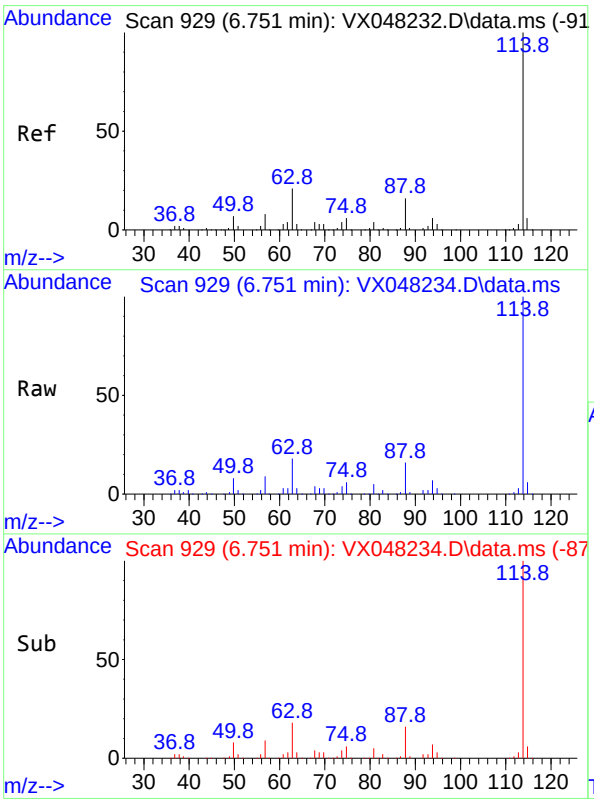
#33
1,2-Dichloroethane-d4
Concen: 149.444 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 65 Resp: 234807

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	105.0

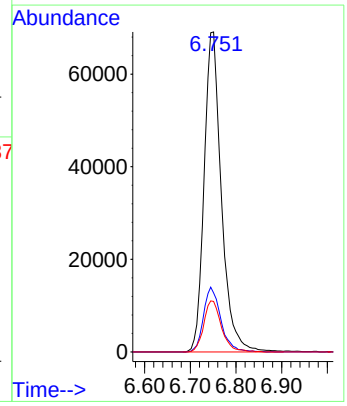


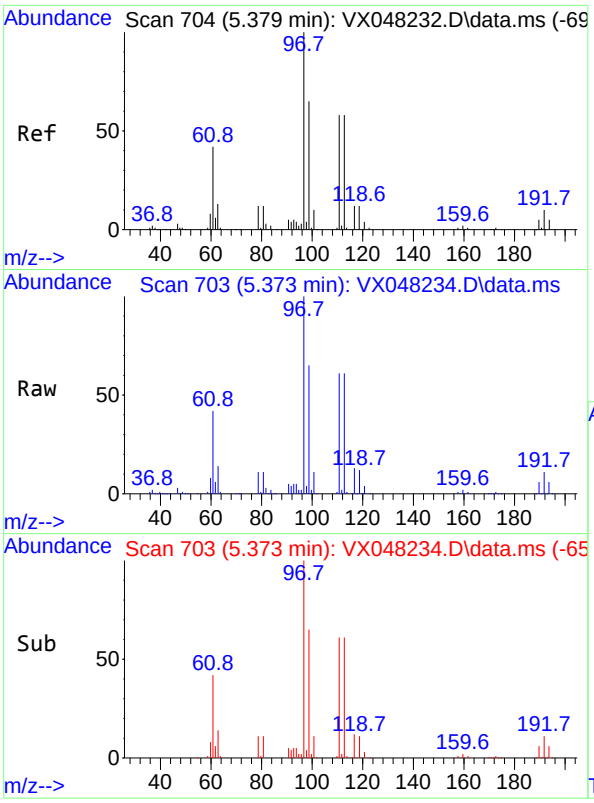


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:114 Resp: 180904

Ion	Ratio	Lower	Upper
114	100		
63	18.4	0.0	43.2
88	15.8	0.0	33.6



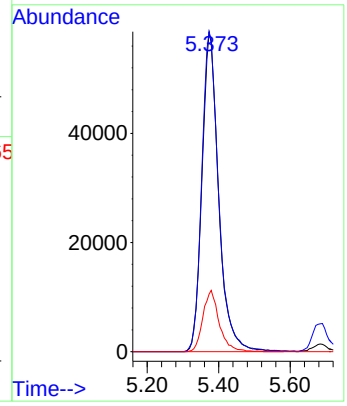


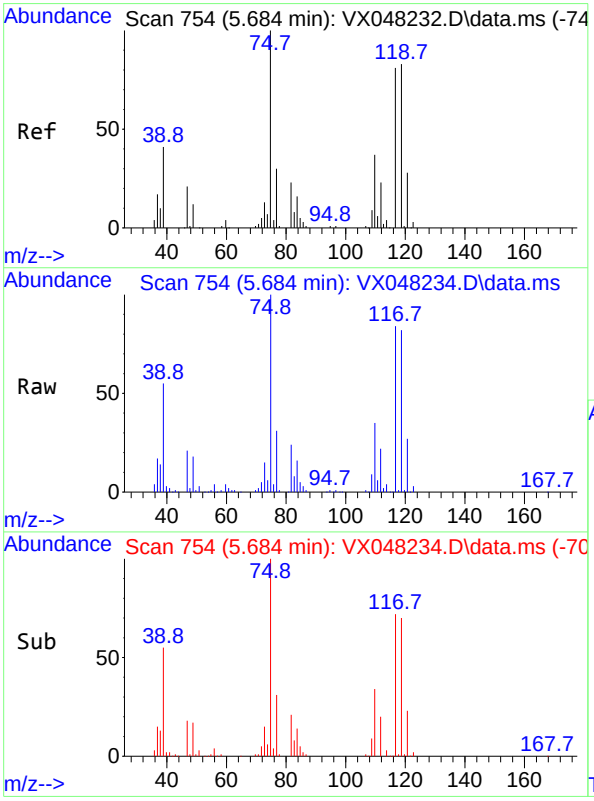
#35
Dibromofluoromethane
Concen: 152.889 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:113 Resp: 188821

Ion	Ratio	Lower	Upper
113	100		
111	101.5	82.2	123.4
192	18.8	15.1	22.7

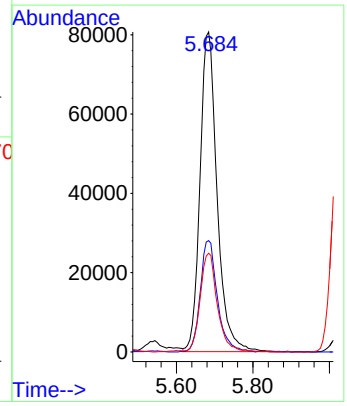


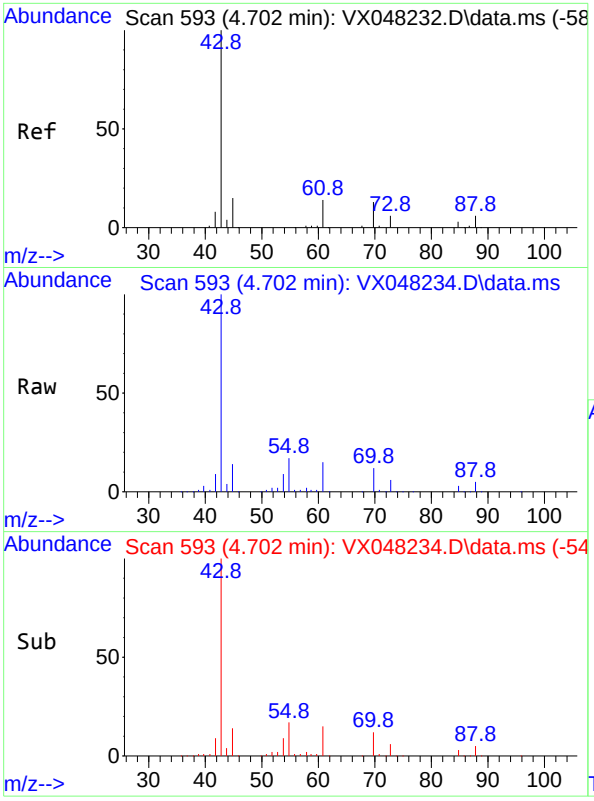


#36
1,1-Dichloropropene
Concen: 142.243 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 75 Resp: 249688

Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.7	53.1
77	31.2	24.3	36.5



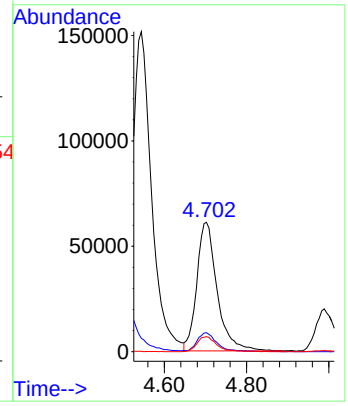


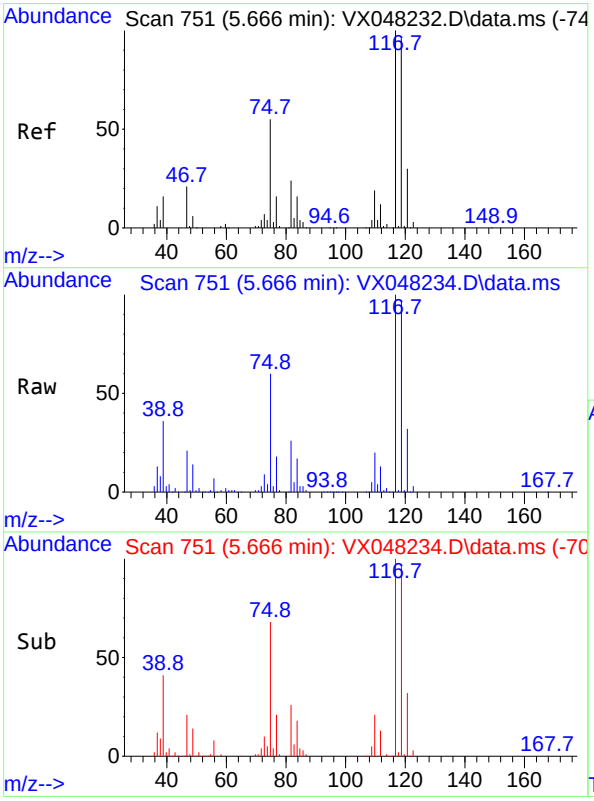
#37
Ethyl Acetate
Concen: 143.380 ug/l
RT: 4.702 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 208614

Ion	Ratio	Lower	Upper
43	100		
61	14.1	10.6	15.8
70	11.2	7.8	11.6

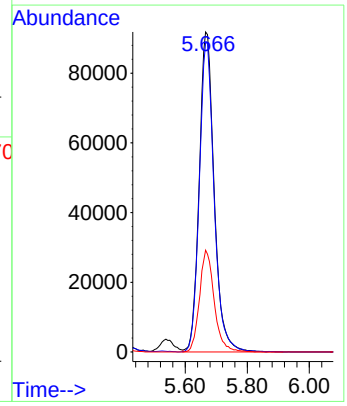


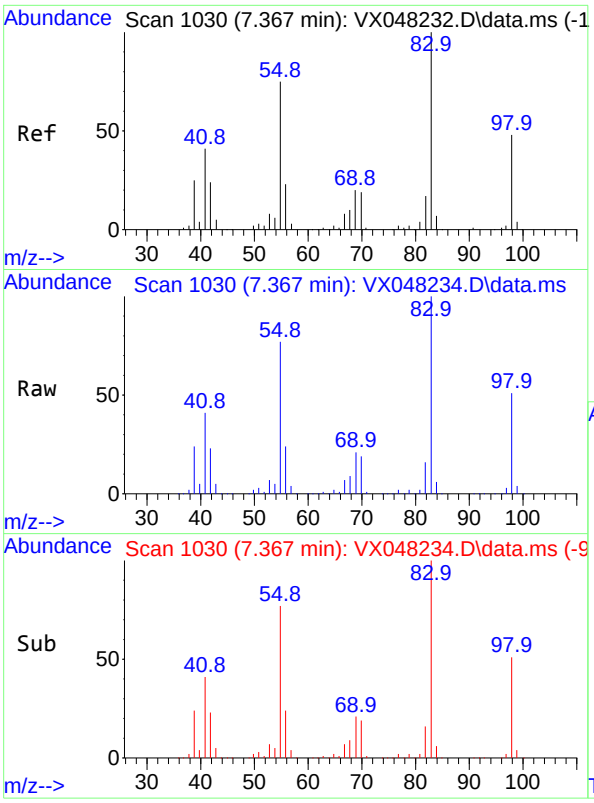


#38
Carbon Tetrachloride
Concen: 142.169 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:117 Resp: 307892

Ion	Ratio	Lower	Upper
117	100		
119	96.6	77.2	115.8
121	31.8	24.8	37.2



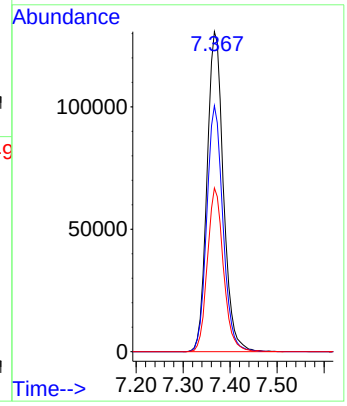


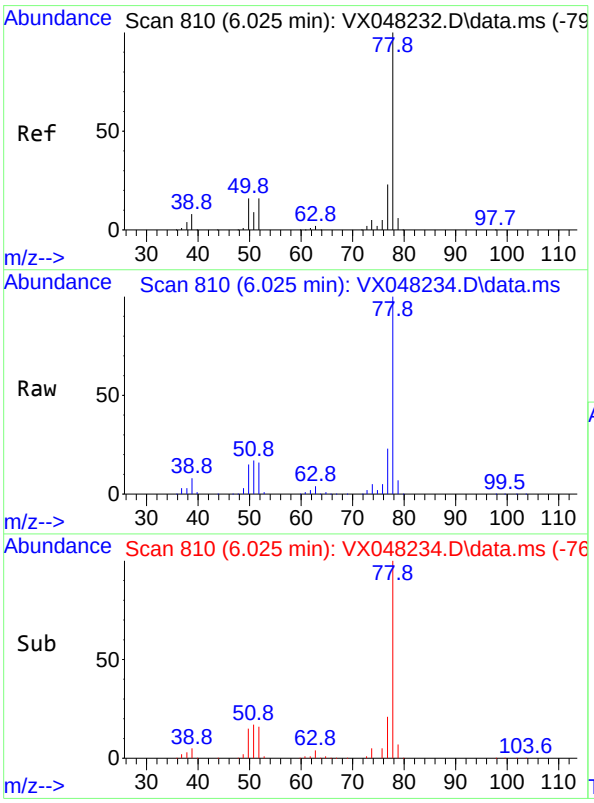
#39
Methylcyclohexane
Concen: 152.387 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 315911

Ion	Ratio	Lower	Upper
83	100		
55	76.9	66.2	99.2
98	51.1	38.9	58.3

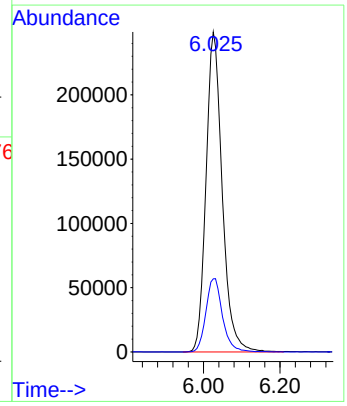


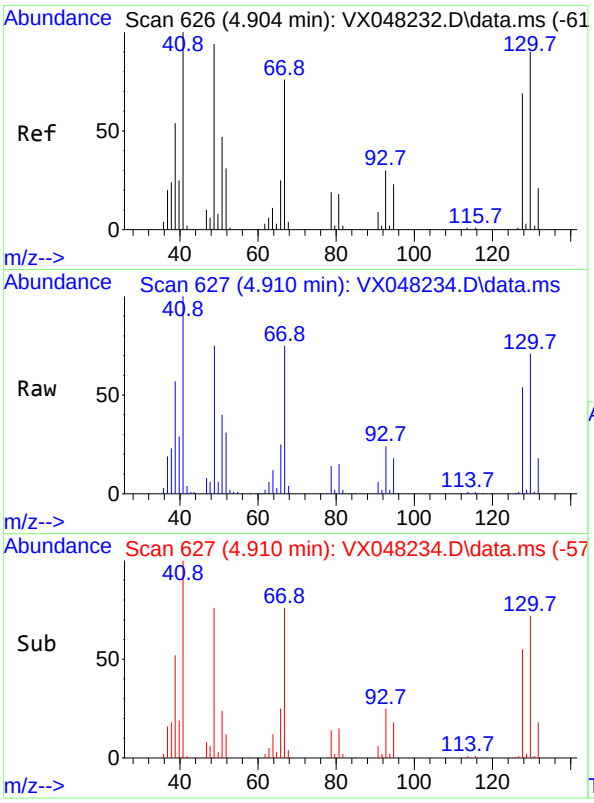


#40
Benzene
Concen: 143.416 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 78 Resp: 730908

Ion	Ratio	Lower	Upper
78	100		
77	22.8	19.3	28.9



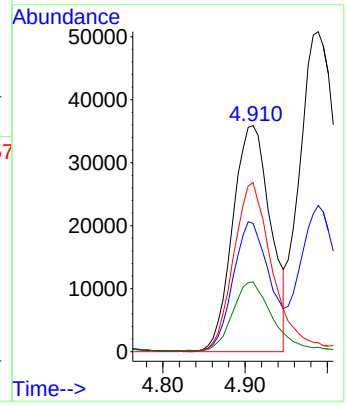


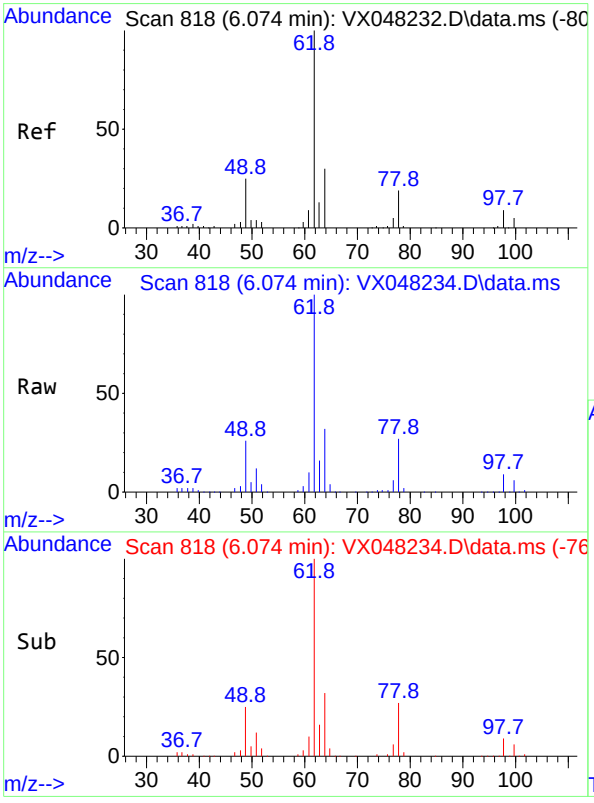
#41
Methacrylonitrile
Concen: 150.966 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 41 Resp: 115351

Ion	Ratio	Lower	Upper
41	100		
39	55.0	44.0	66.0
67	78.1	58.7	88.1
52	32.5	25.9	38.9

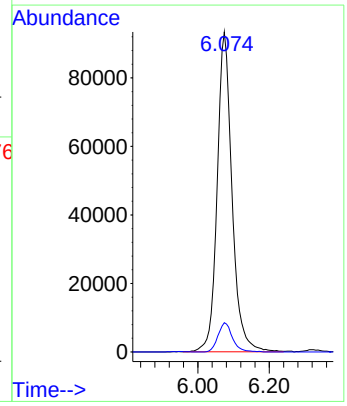


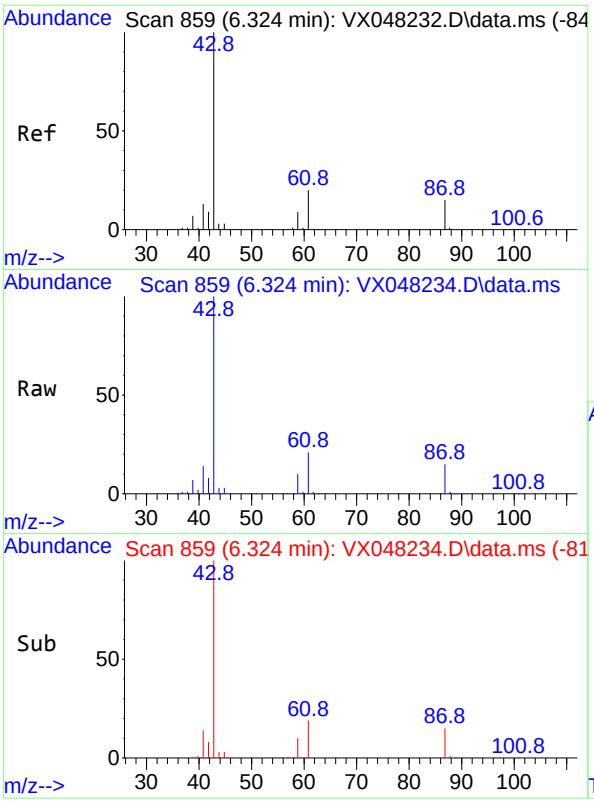


#42
1,2-Dichloroethane
Concen: 143.169 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 62 Resp: 269245

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	17.2



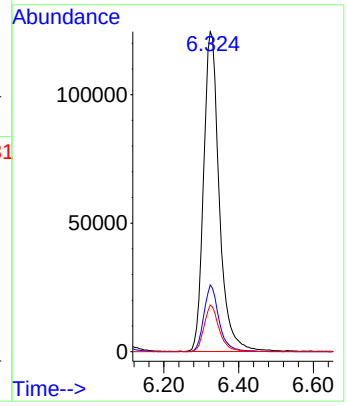


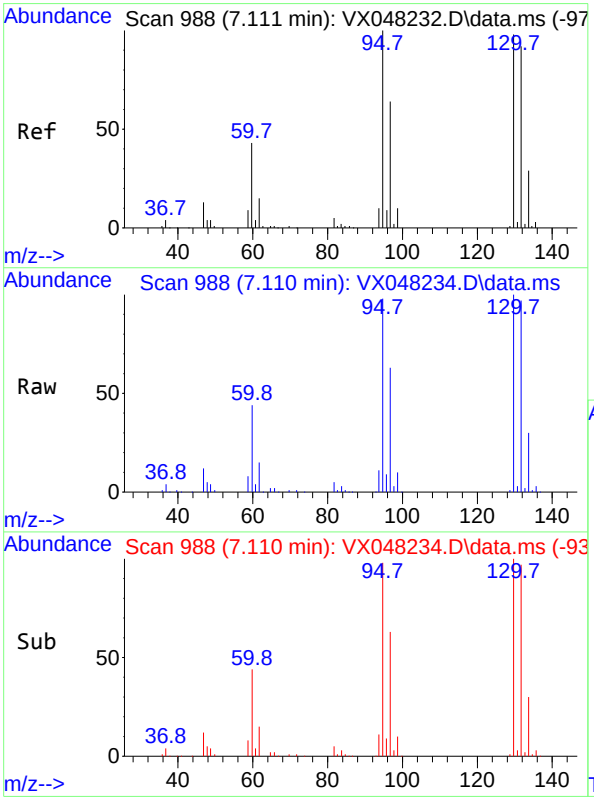
#43
Isopropyl Acetate
Concen: 151.084 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 361084

Ion	Ratio	Lower	Upper
43	100		
61	20.2	14.9	22.3
87	14.0	9.4	14.2

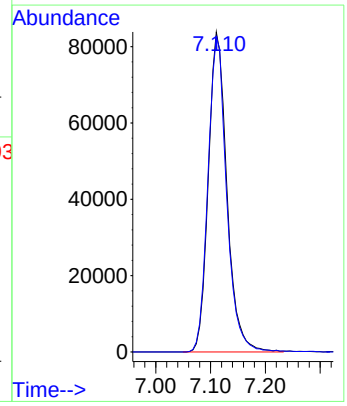


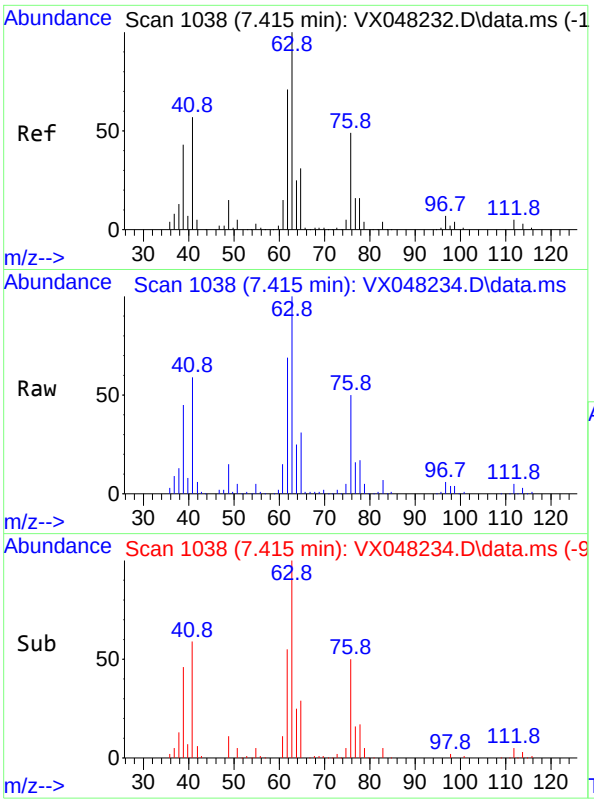


#44
Trichloroethene
Concen: 146.572 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:130 Resp: 197244

Ion	Ratio	Lower	Upper
130	100		
95	98.5	0.0	200.6



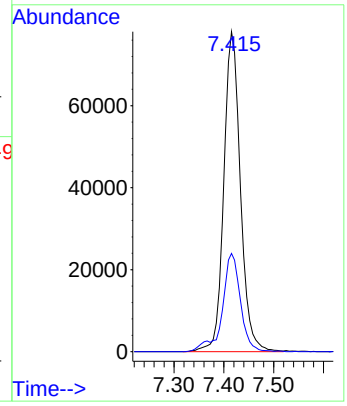


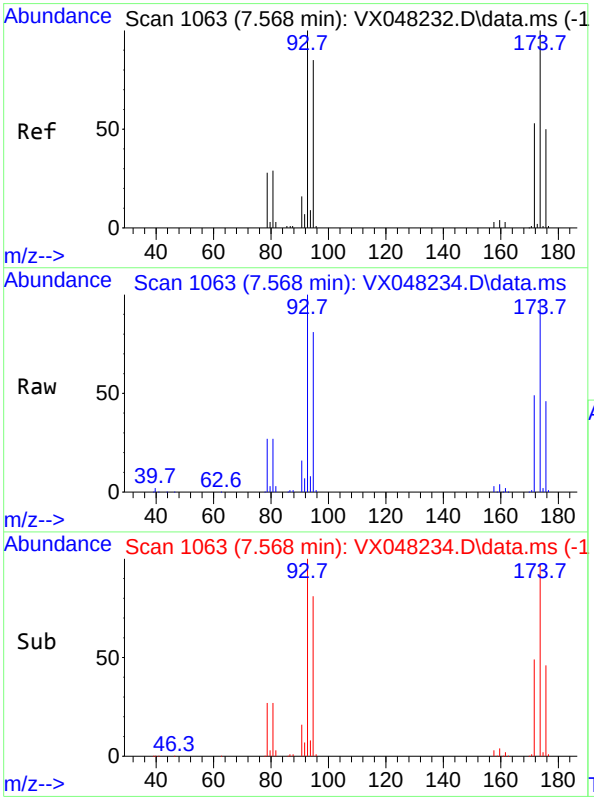
#45
1,2-Dichloropropane
Concen: 149.063 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 63 Resp: 180619

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.1	36.1

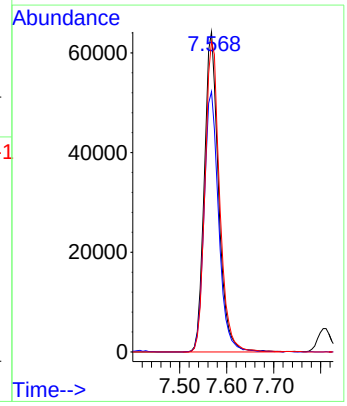


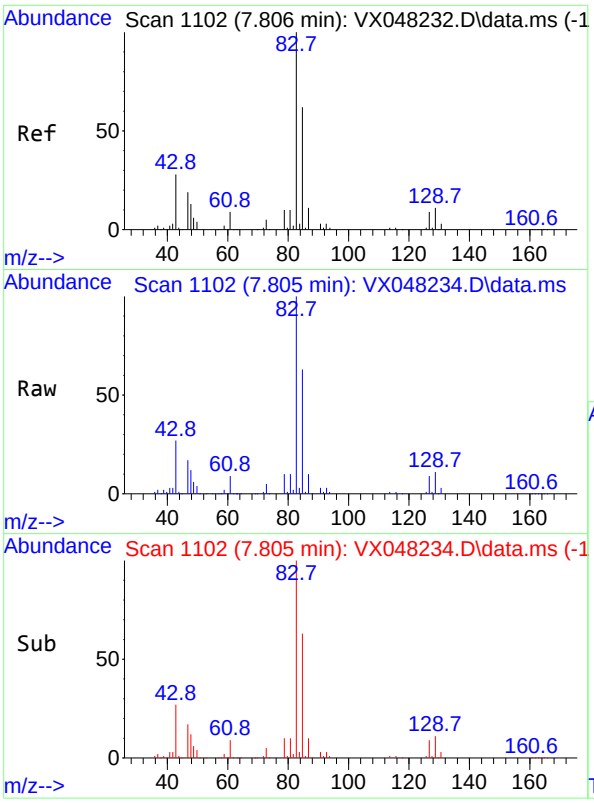


#46
Dibromomethane
Concen: 143.118 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 93 Resp: 135105

Ion	Ratio	Lower	Upper
93	100		
95	82.9	65.9	98.9
174	99.5	71.7	107.5



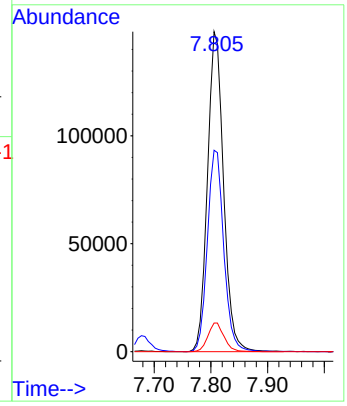


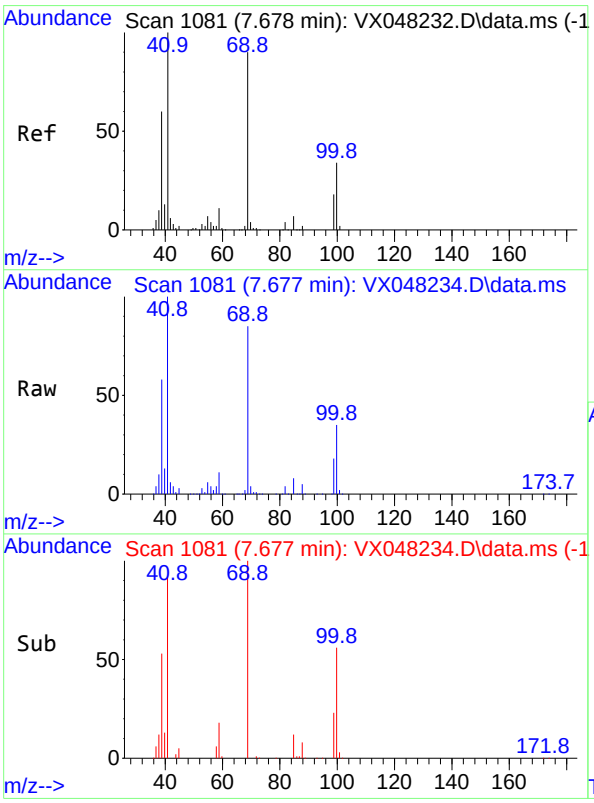
#47
Bromodichloromethane
Concen: 143.290 ug/l
RT: 7.805 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 292063

Ion	Ratio	Lower	Upper
83	100		
85	62.9	52.2	78.4
127	8.9	7.3	10.9

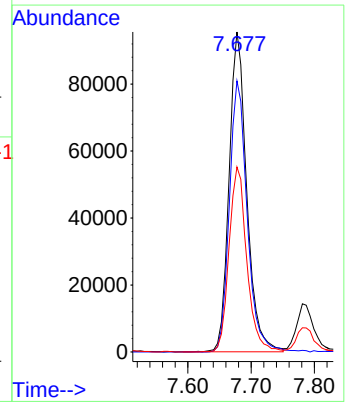


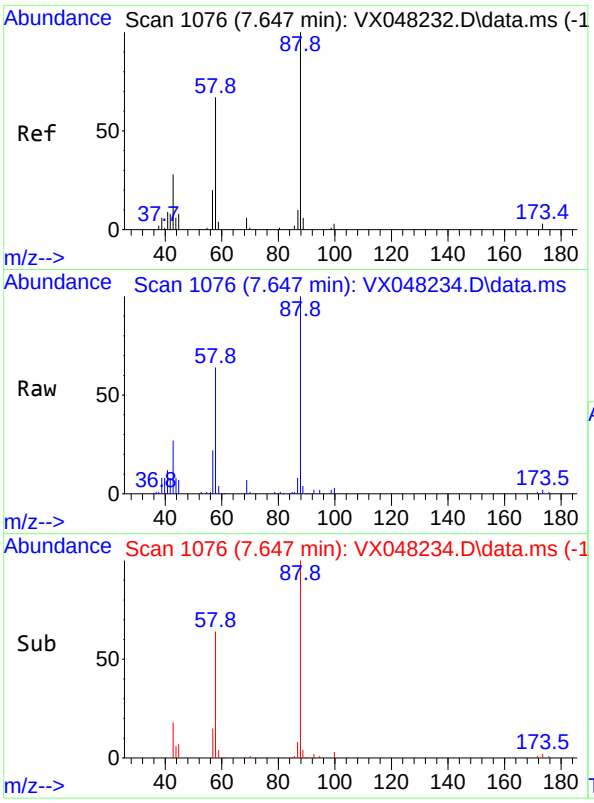


#48
Methyl methacrylate
Concen: 152.865 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 41 Resp: 184354

Ion	Ratio	Lower	Upper
41	100		
69	86.0	63.4	95.0
39	58.5	47.1	70.7



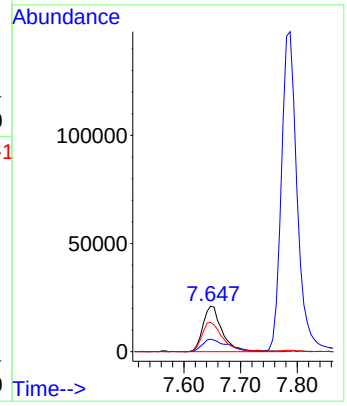


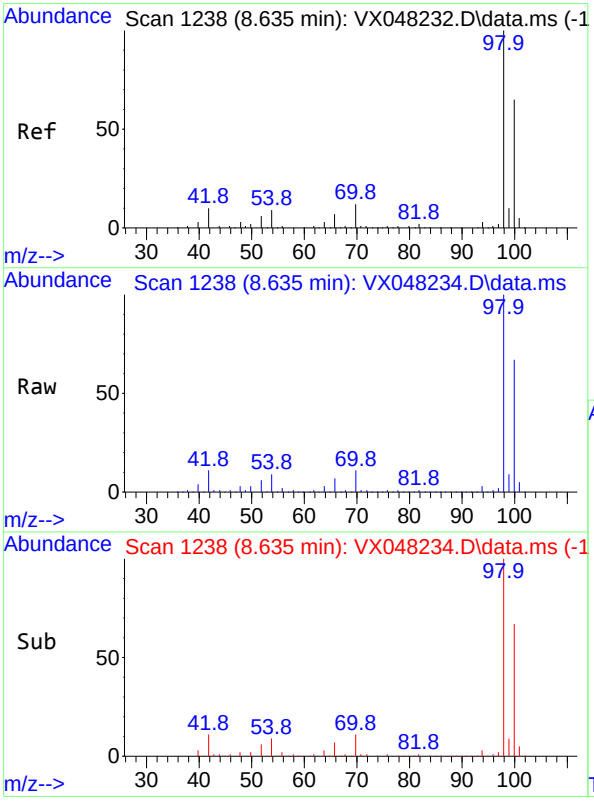
#49
1,4-Dioxane
Concen: 3131.591 ug/l
RT: 7.647 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 88 Resp: 49895

Ion	Ratio	Lower	Upper
88	100		
43	35.6	35.0	52.4
58	67.7	61.9	92.9

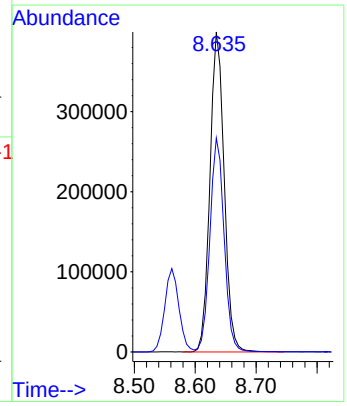


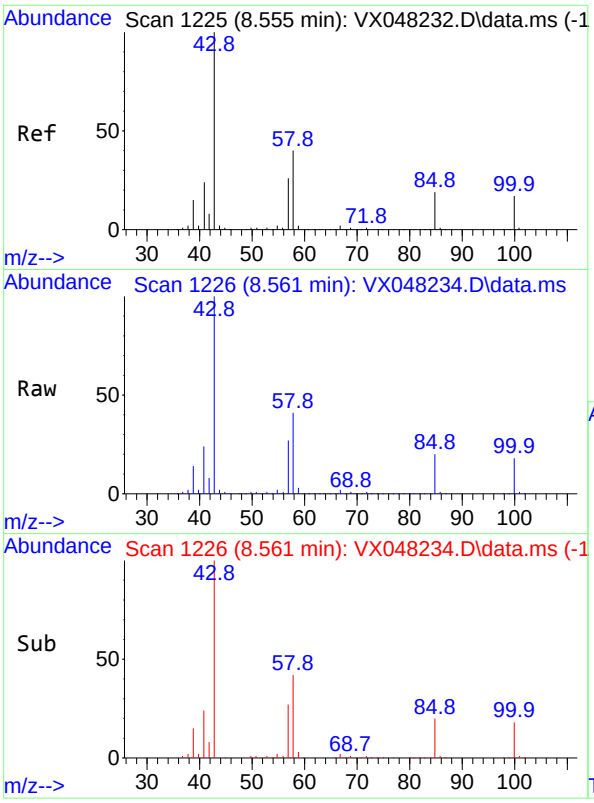


#50
Toluene-d8
Concen: 149.843 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 98 Resp: 648652

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.0	79.4



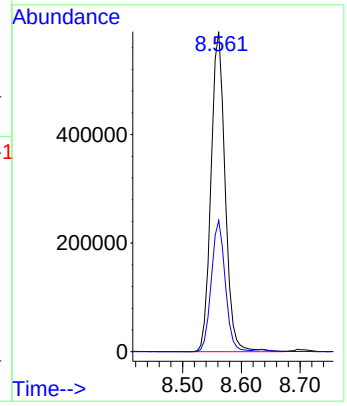


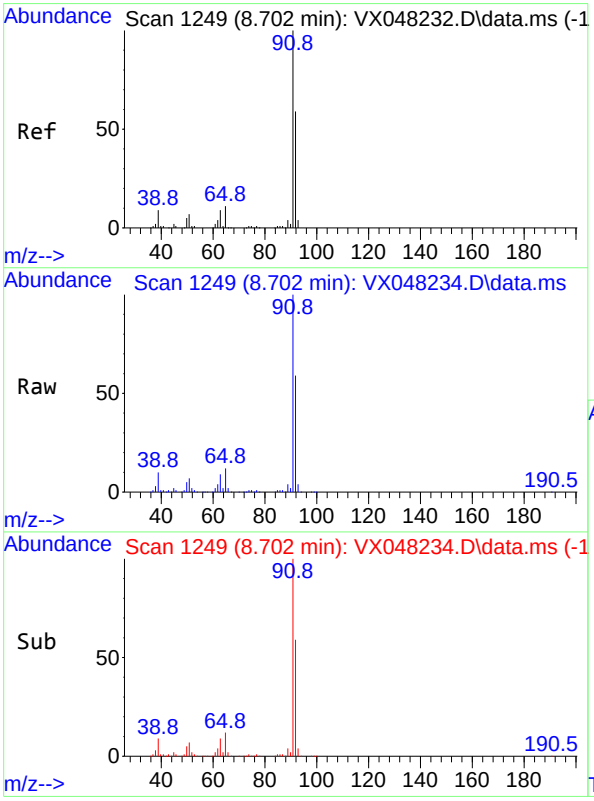
#51
4-Methyl-2-Pentanone
Concen: 713.457 ug/l
RT: 8.561 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 983125

Ion	Ratio	Lower	Upper
43	100		
58	40.4	29.5	44.3

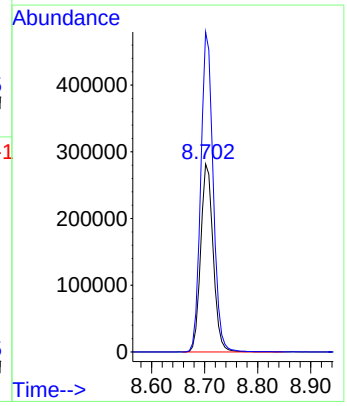


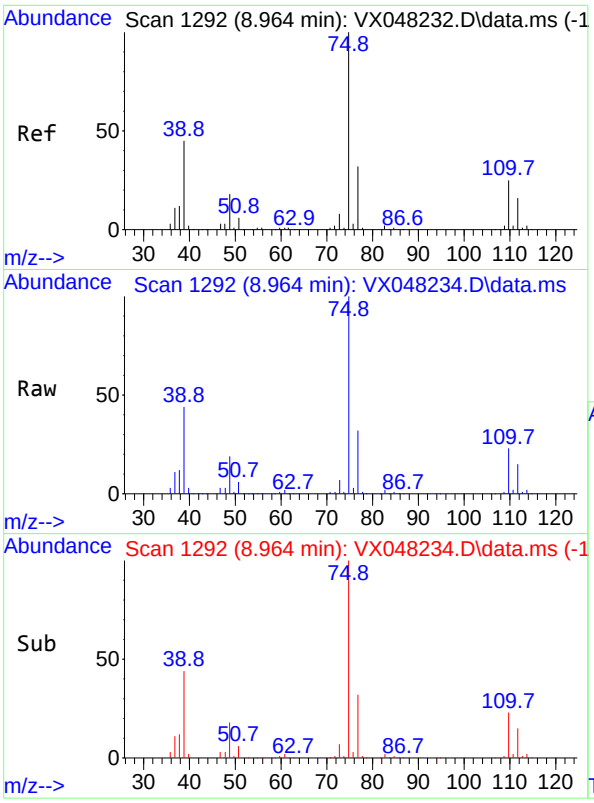


#52
Toluene
Concen: 142.307 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 92 Resp: 460742

Ion	Ratio	Lower	Upper
92	100		
91	169.1	136.1	204.1



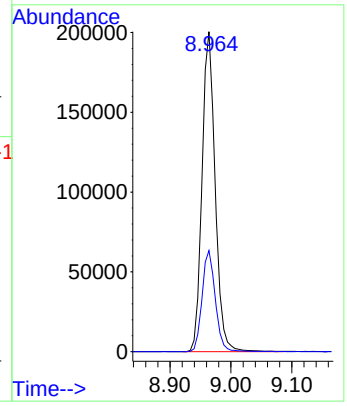


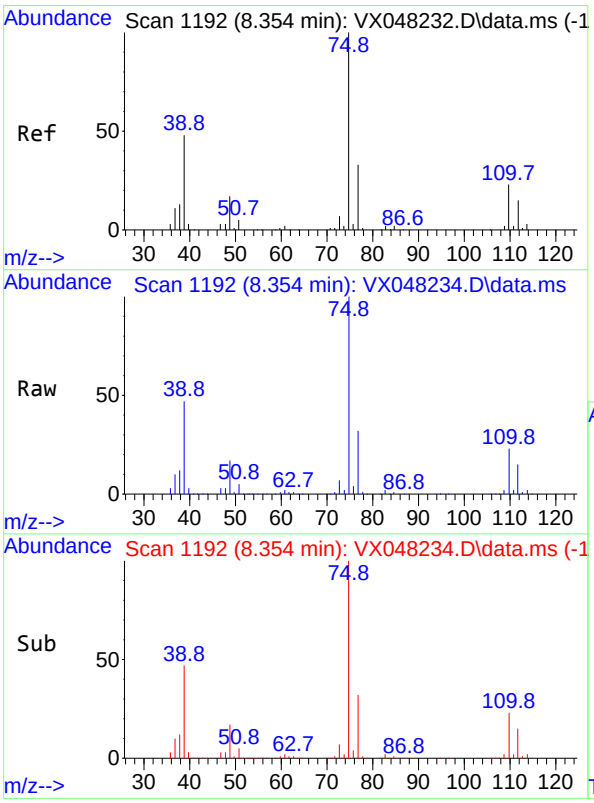
#53
t-1,3-Dichloropropene
Concen: 152.861 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 300251

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.0	37.6

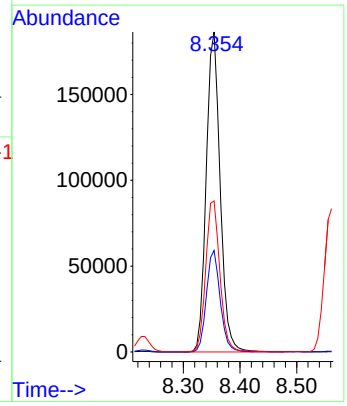


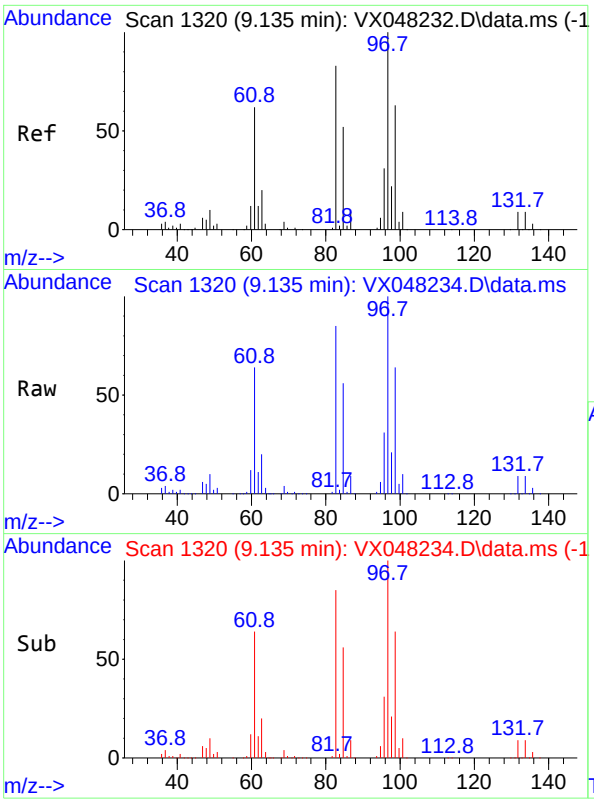


#54
cis-1,3-Dichloropropene
Concen: 149.763 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 75 Resp: 317375

Ion	Ratio	Lower	Upper
75	100		
77	31.7	24.9	37.3
39	47.1	42.6	64.0



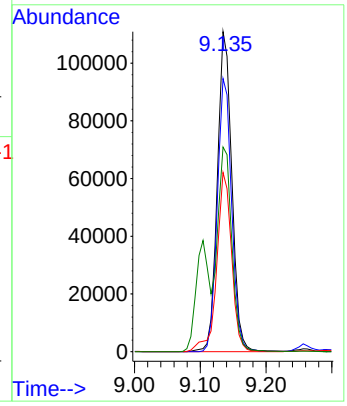


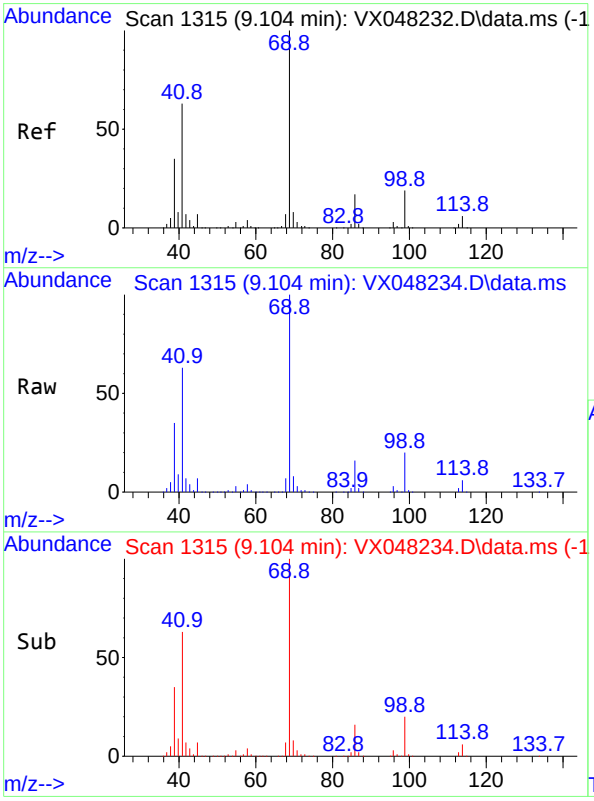
#55
1,1,2-Trichloroethane
Concen: 141.104 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 97 Resp: 169894

Ion	Ratio	Lower	Upper
97	100		
83	85.4	70.6	105.8
85	56.0	45.0	67.6
99	63.9	50.9	76.3

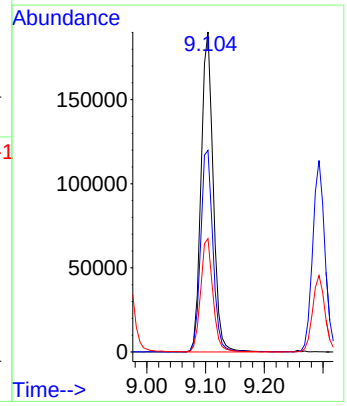


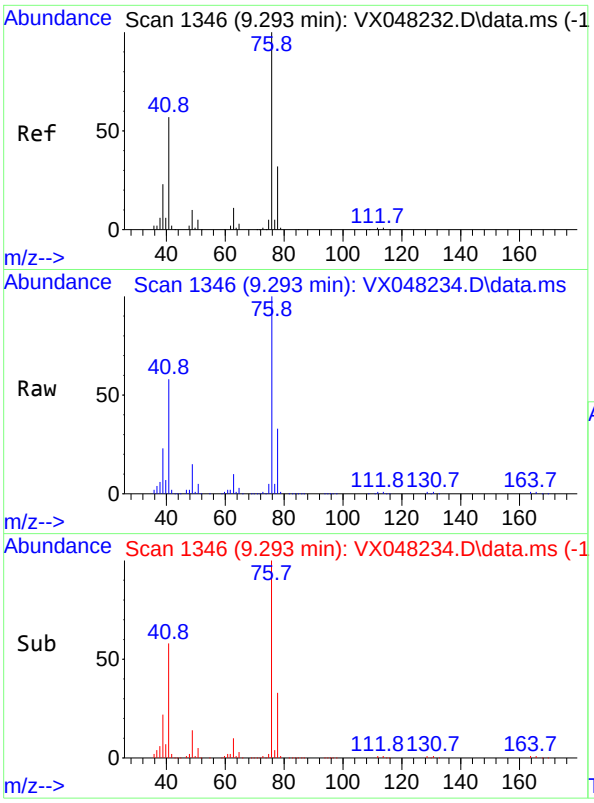


#56
Ethyl methacrylate
Concen: 154.550 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 69 Resp: 272177

Ion	Ratio	Lower	Upper
69	100		
41	64.4	56.0	84.0
39	36.1	31.6	47.4



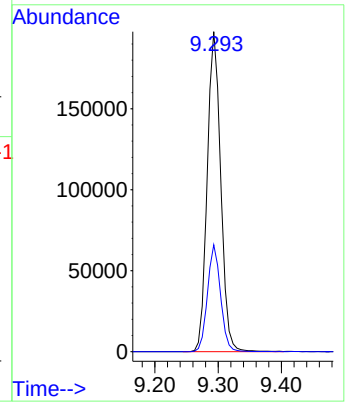


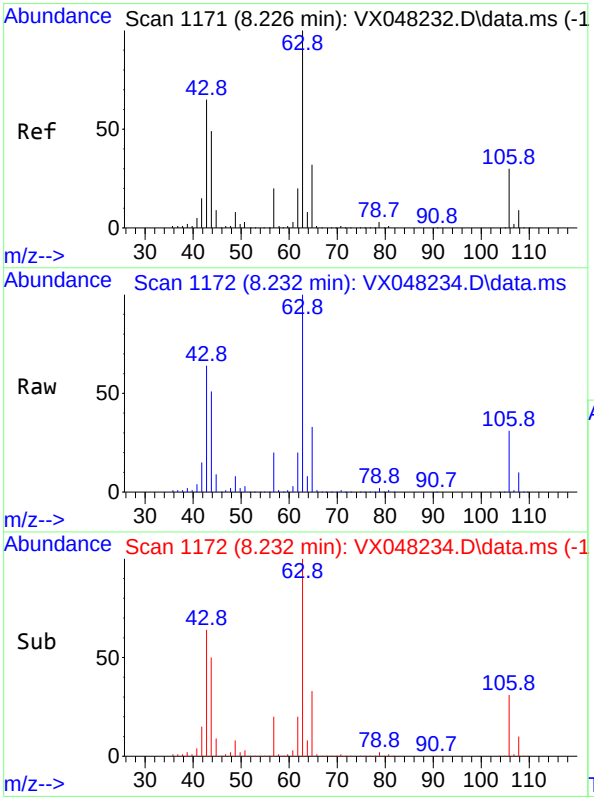
#57
1,3-Dichloropropane
Concen: 142.782 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 293650

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.4	38.0

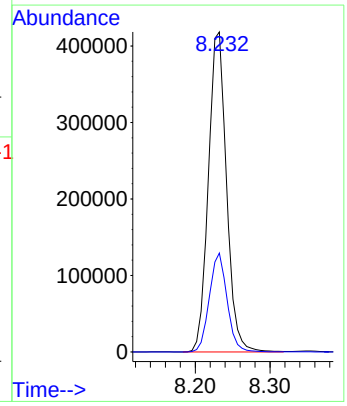


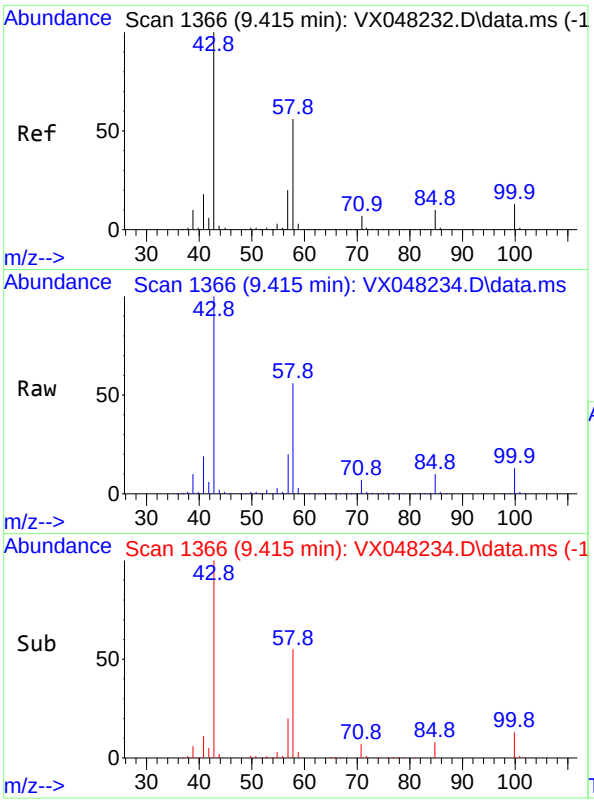


#58
2-Chloroethyl Vinyl ether
Concen: 741.966 ug/l
RT: 8.232 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 63 Resp: 705780

Ion	Ratio	Lower	Upper
63	100		
106	30.2	22.2	33.2



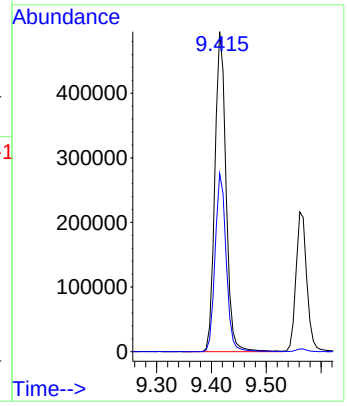


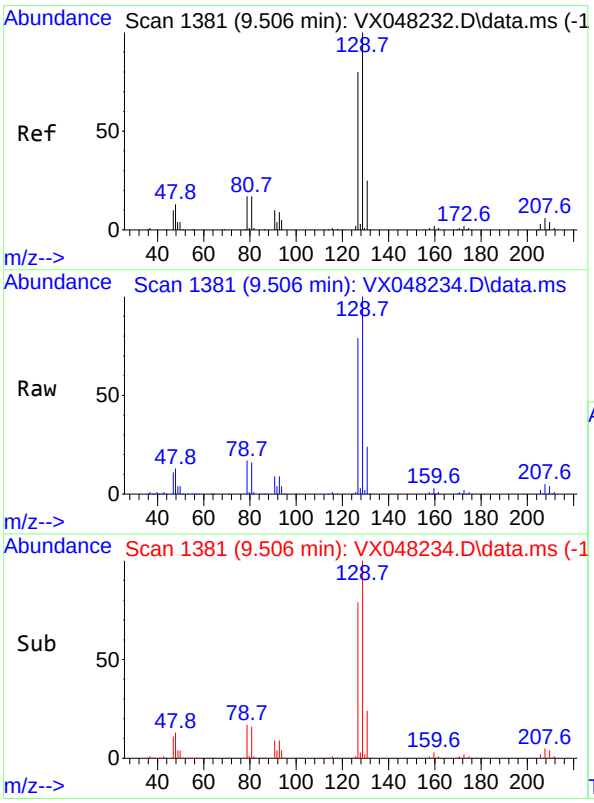
#59
2-Hexanone
Concen: 723.047 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 694736

Ion	Ratio	Lower	Upper
43	100		
58	55.6	26.3	78.8

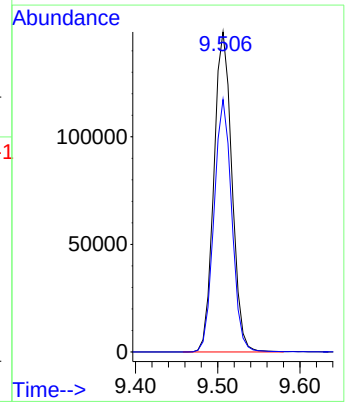


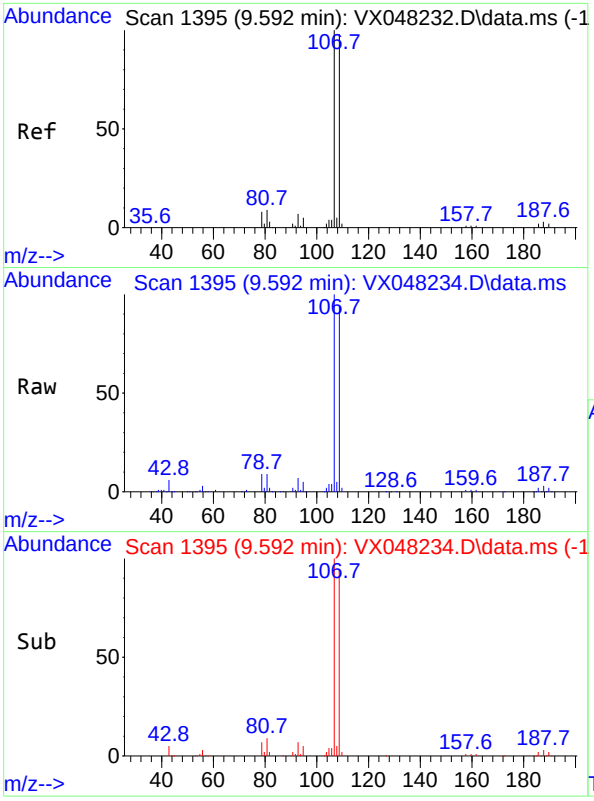


#60
Dibromochloromethane
Concen: 140.050 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:129 Resp: 226642

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.6	115.7



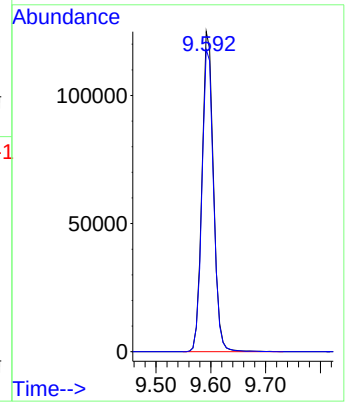


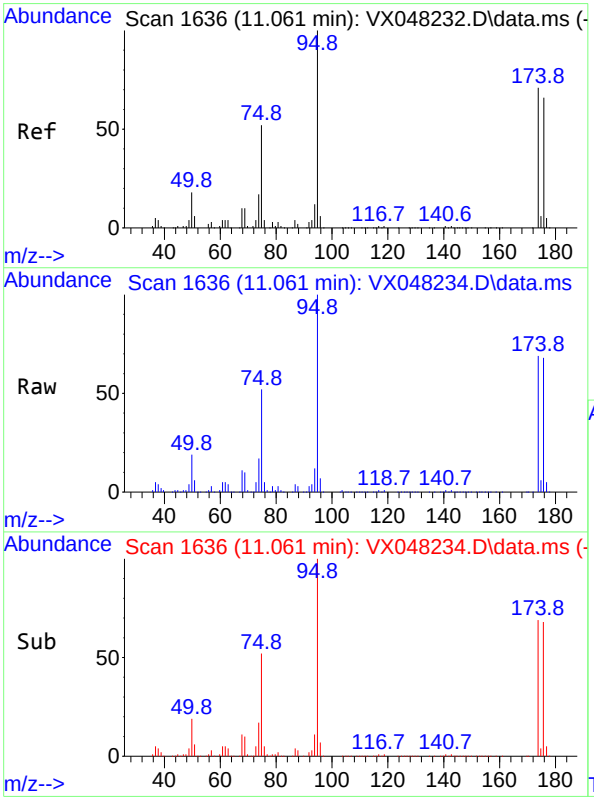
#61
1,2-Dibromoethane
Concen: 141.953 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:107 Resp: 182208

Ion	Ratio	Lower	Upper
107	100		
109	95.6	77.0	115.4

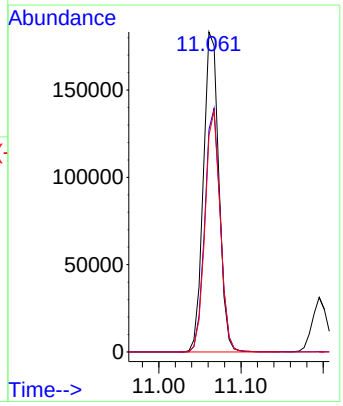


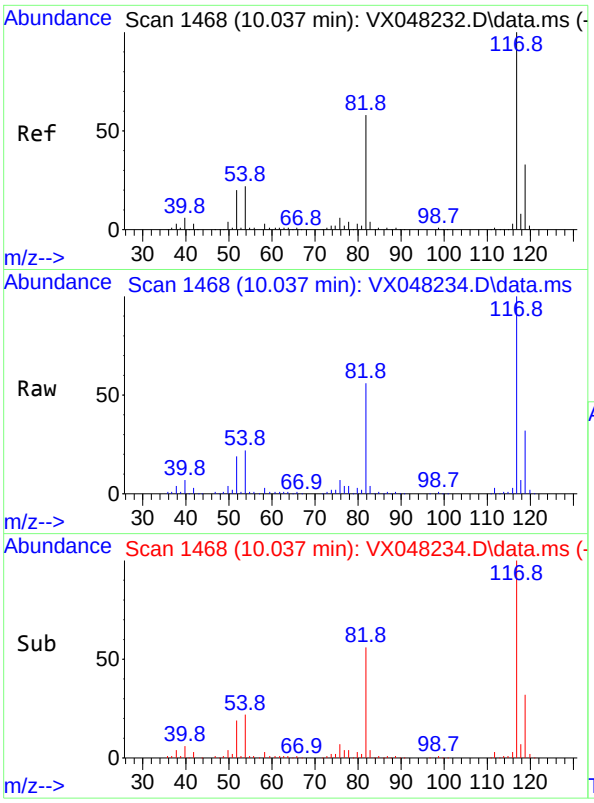


#62
4-Bromofluorobenzene
Concen: 145.308 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 95 Resp: 239298

Ion	Ratio	Lower	Upper
95	100		
174	76.0	0.0	147.8
176	74.2	0.0	142.8



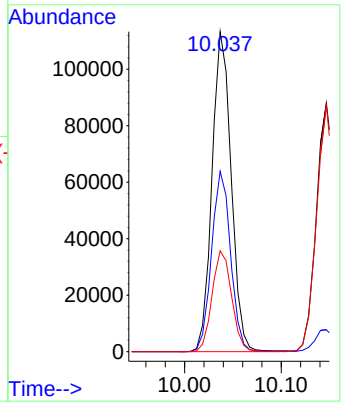


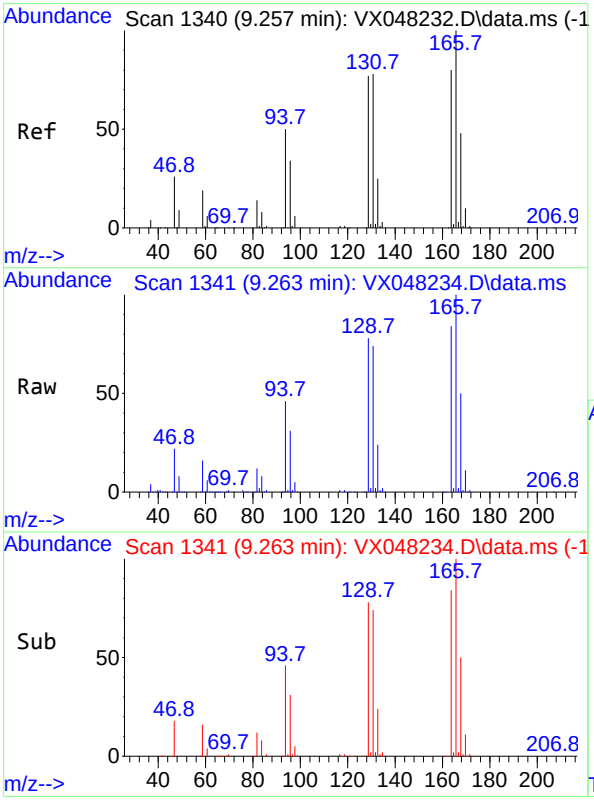
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:117 Resp: 155759

Ion	Ratio	Lower	Upper
117	100		
82	56.4	46.5	69.7
119	31.5	25.9	38.9

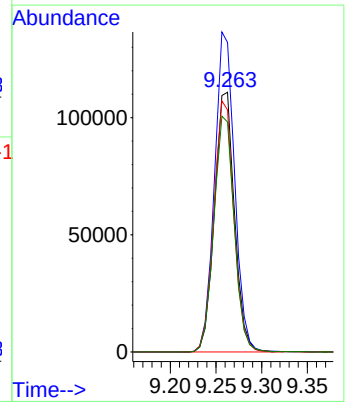


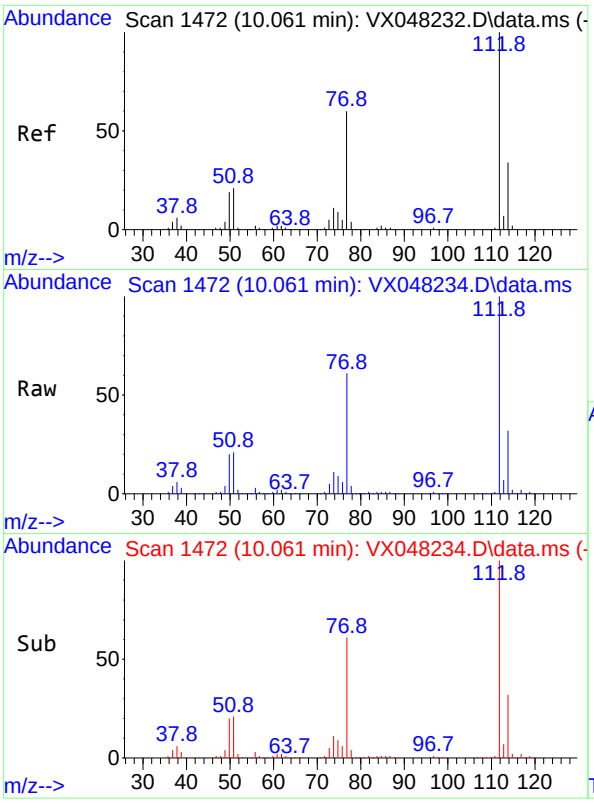


#64
Tetrachloroethene
Concen: 144.982 ug/l
RT: 9.263 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:164 Resp: 168581

Ion	Ratio	Lower	Upper
164	100		
166	119.3	104.5	156.7
129	93.2	81.8	122.6
131	88.6	77.0	115.6



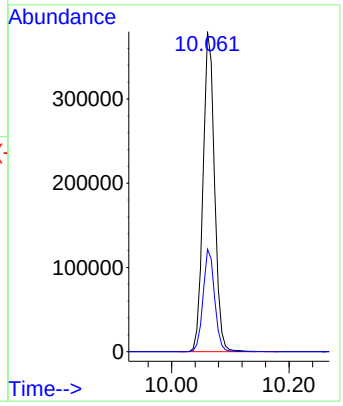


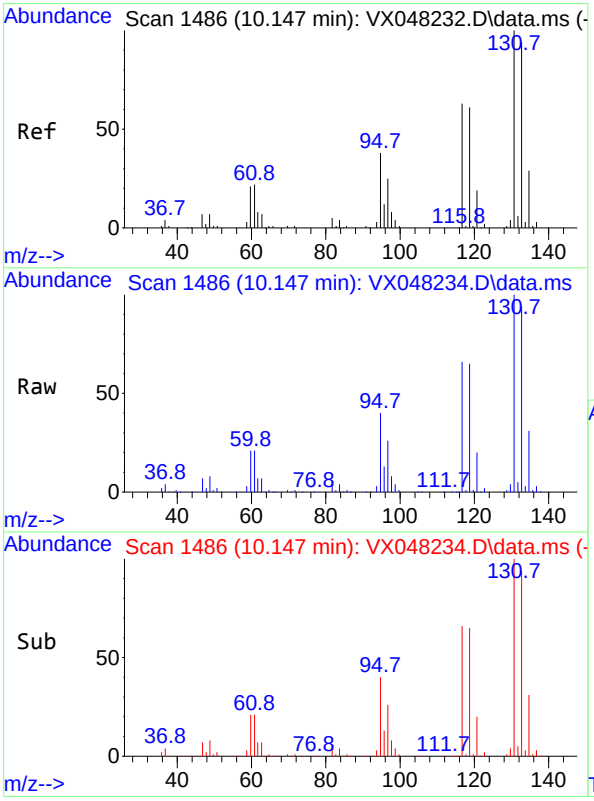
#65
Chlorobenzene
Concen: 146.973 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:112 Resp: 514967

Ion	Ratio	Lower	Upper
112	100		
114	32.0	26.2	39.2

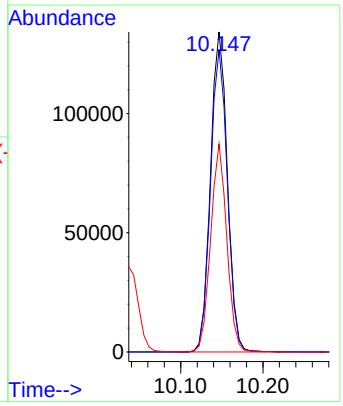


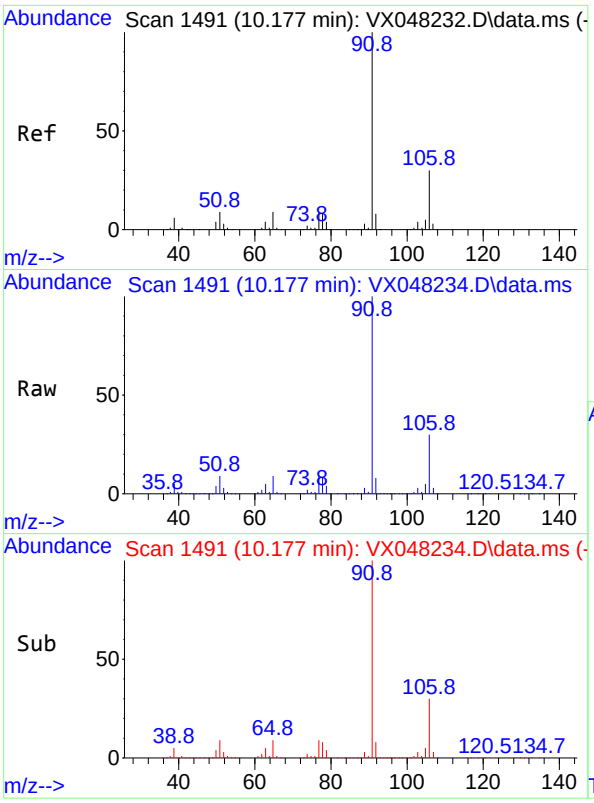


#66
1,1,1,2-Tetrachloroethane
Concen: 148.558 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:131 Resp: 191186

Ion	Ratio	Lower	Upper
131	100		
133	94.4	47.6	142.8
119	62.3	32.5	97.5



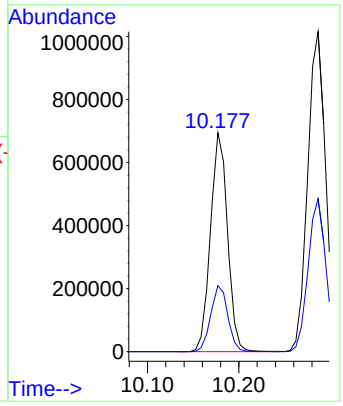


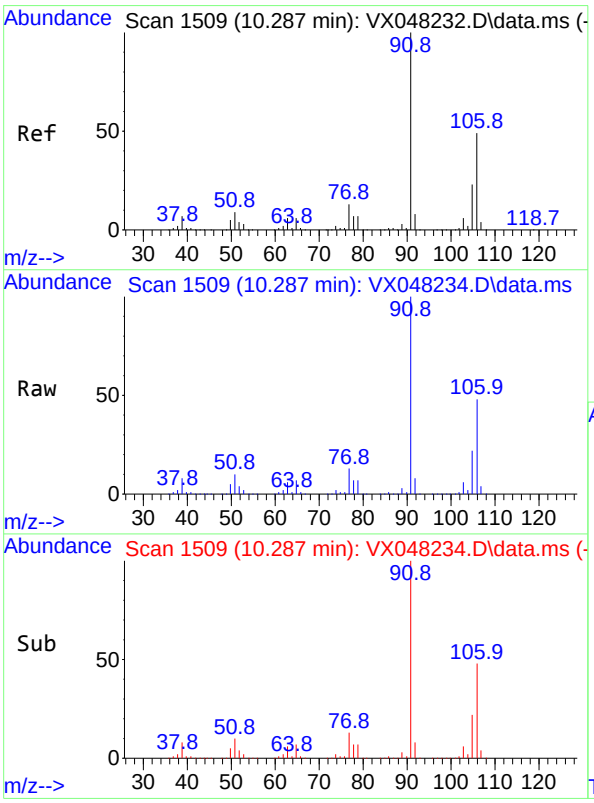
#67
Ethyl Benzene
Concen: 150.554 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 898137

Ion	Ratio	Lower	Upper
91	100		
106	30.2	23.8	35.6

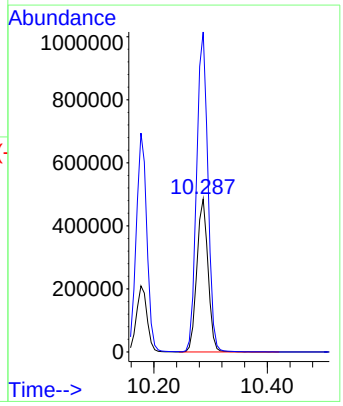


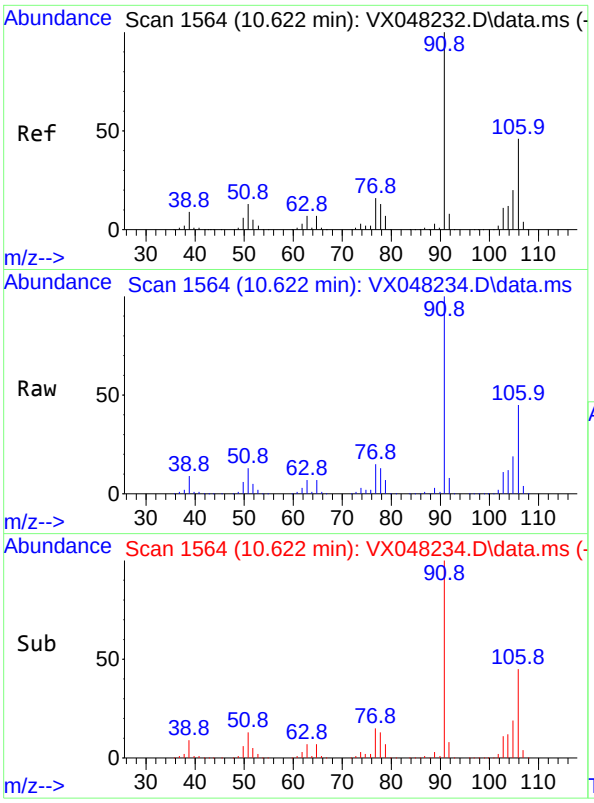


#68
m/p-Xylenes
Concen: 298.230 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:106 Resp: 661019

Ion	Ratio	Lower	Upper
106	100		
91	211.4	167.9	251.9



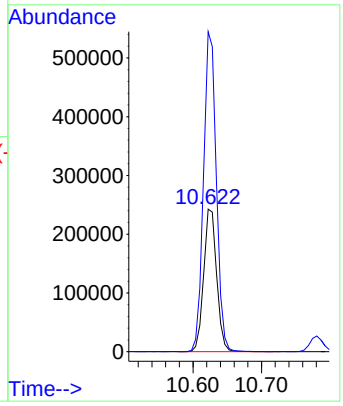


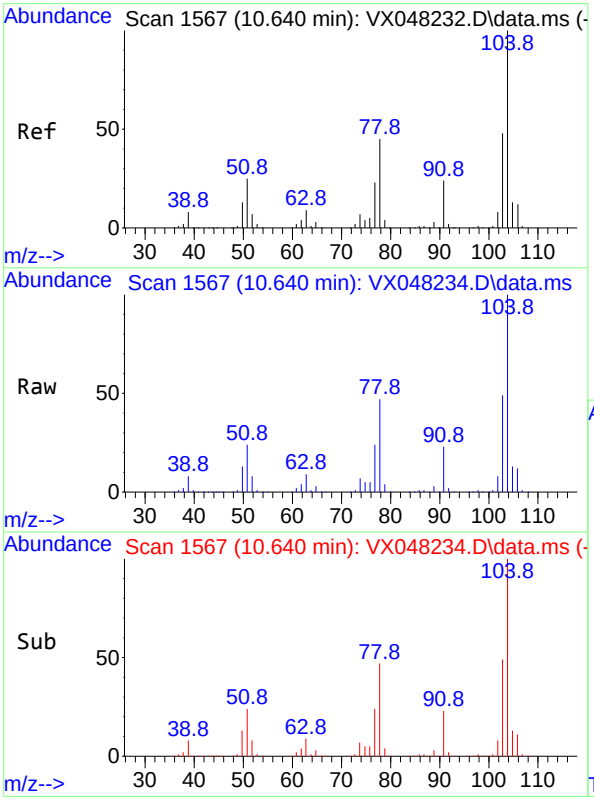
#69
o-Xylene
Concen: 149.698 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 320334

Ion	Ratio	Lower	Upper
106	100		
91	221.5	111.3	333.9

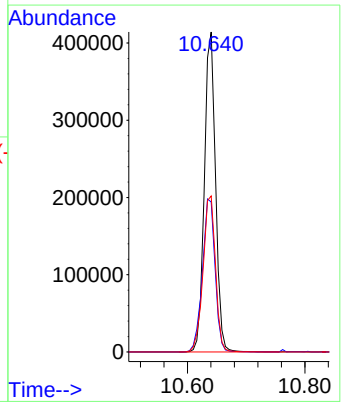


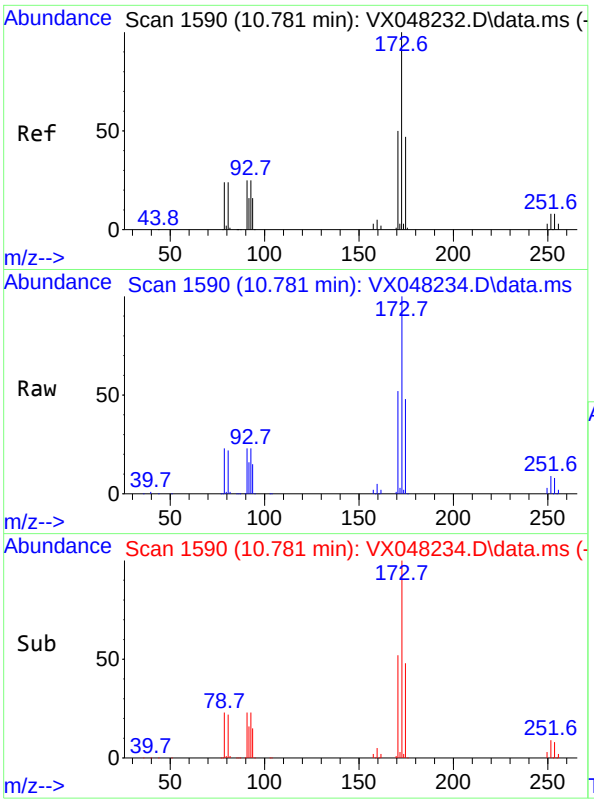


#70
Styrene
Concen: 150.439 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:104 Resp: 548149

Ion	Ratio	Lower	Upper
104	100		
78	54.3	42.2	63.4
103	54.4	43.0	64.4



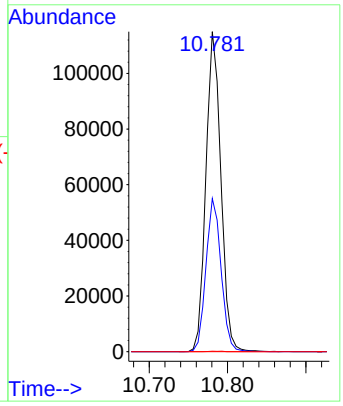


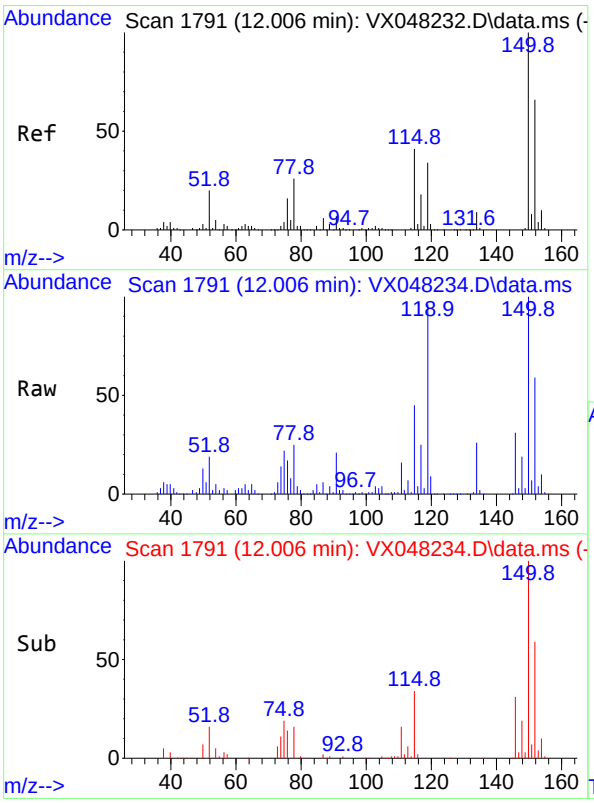
#71
Bromoform
Concen: 147.980 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:173 Resp: 152209

Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.0	72.0
254	0.1	0.0	0.0#

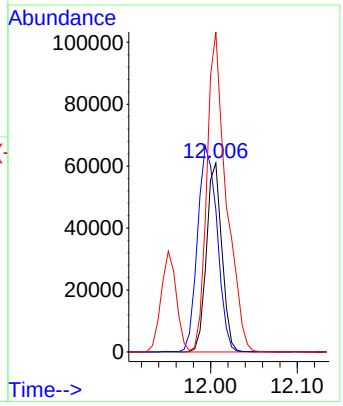


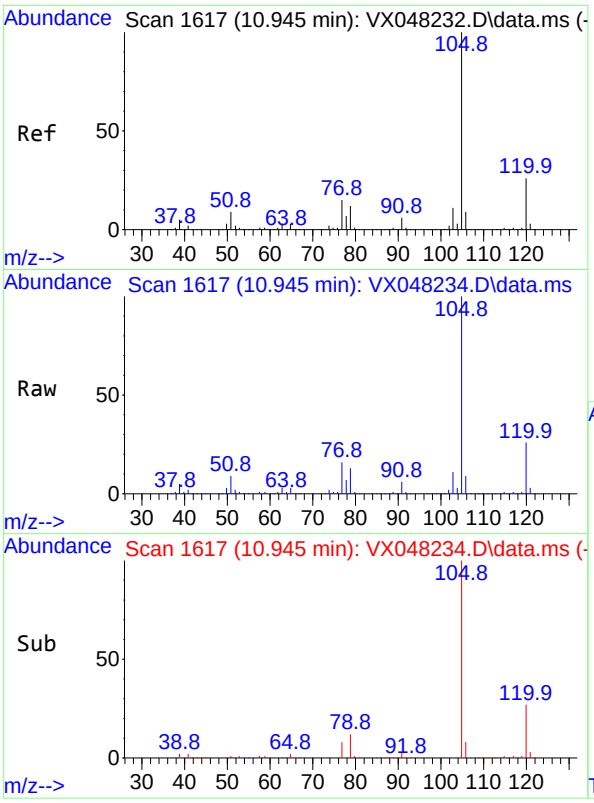


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:152 Resp: 75397

Ion	Ratio	Lower	Upper
152	100		
115	138.9	43.1	129.4#
150	212.6	0.0	353.0



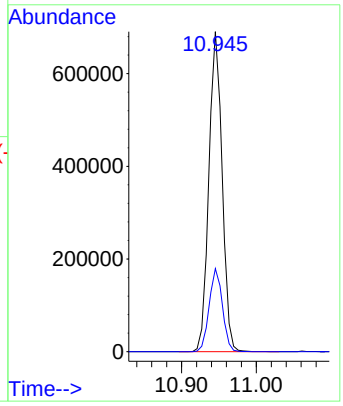


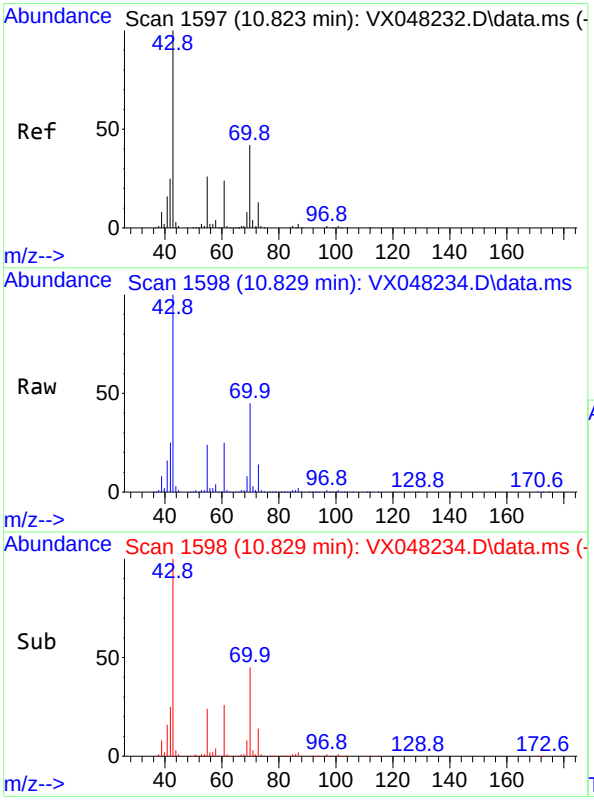
#73
Isopropylbenzene
Concen: 154.201 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 849183

Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.0	38.9

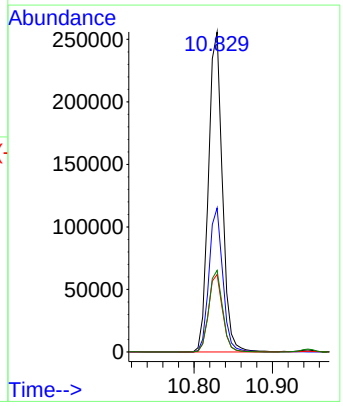


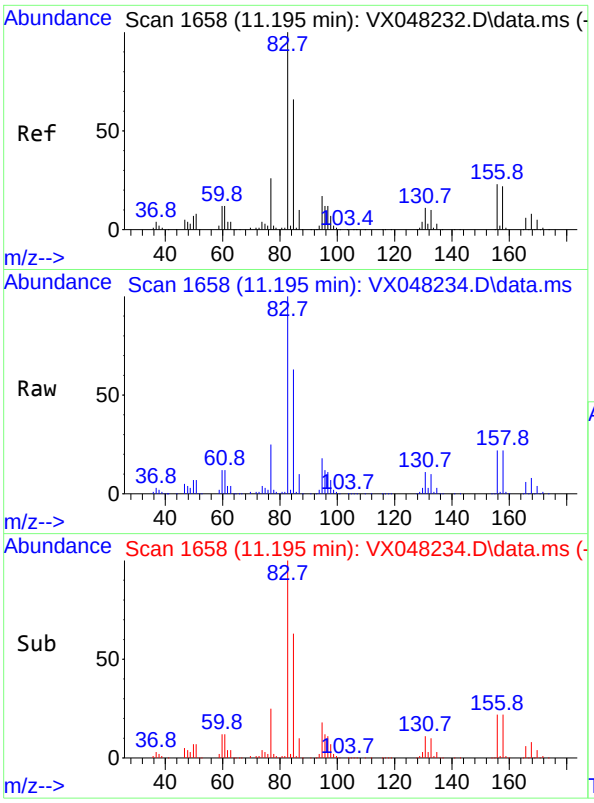


#74
N-amyl acetate
Concen: 161.195 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 43 Resp: 314879

Ion	Ratio	Lower	Upper
43	100		
70	44.5	32.2	48.2
55	24.4	19.1	28.7
61	25.2	18.6	28.0



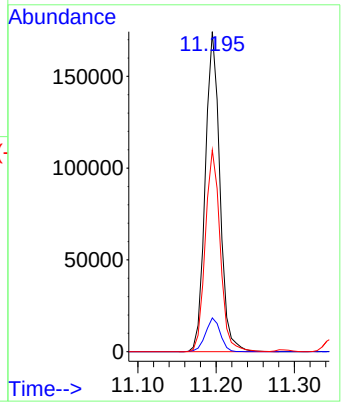


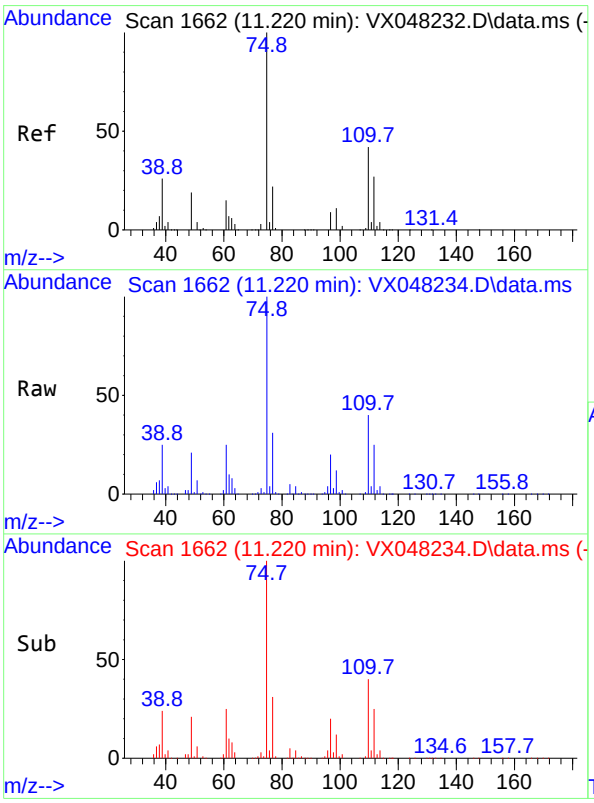
#75
1,1,2,2-Tetrachloroethane
Concen: 149.271 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 224486

Ion	Ratio	Lower	Upper
83	100		
131	10.7	4.8	14.4
85	64.6	31.9	95.7

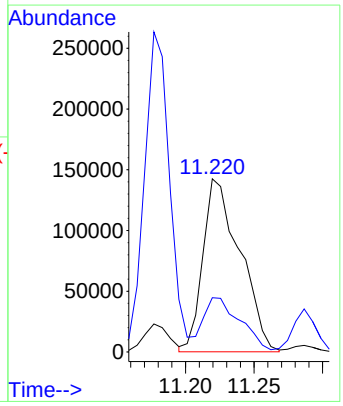


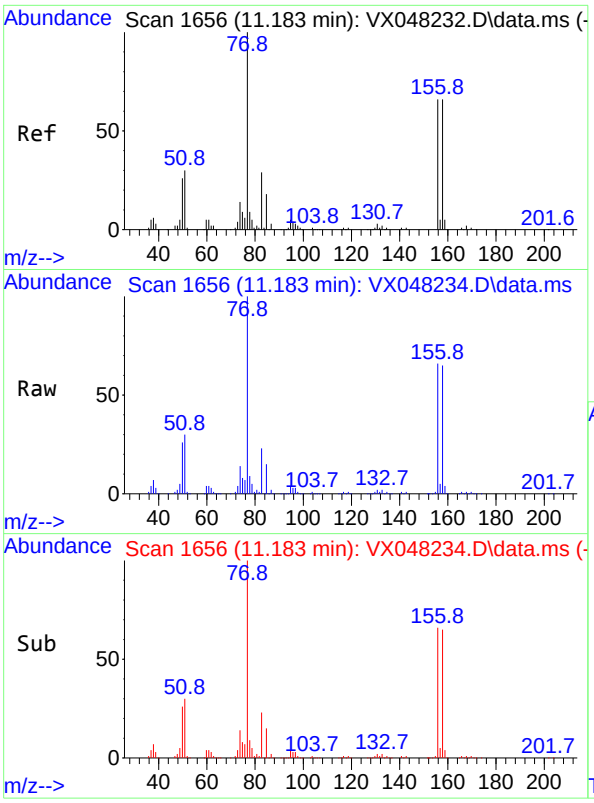


#76
1,2,3-Trichloropropane
Concen: 219.425 ug/l
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 75 Resp: 268288

Ion	Ratio	Lower	Upper
75	100		
77	30.3	22.4	67.2



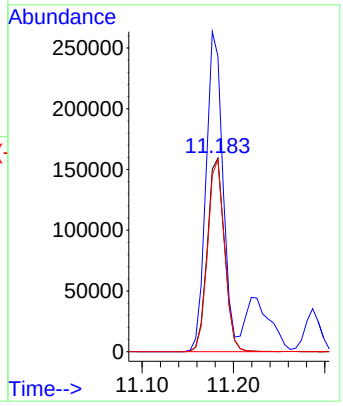


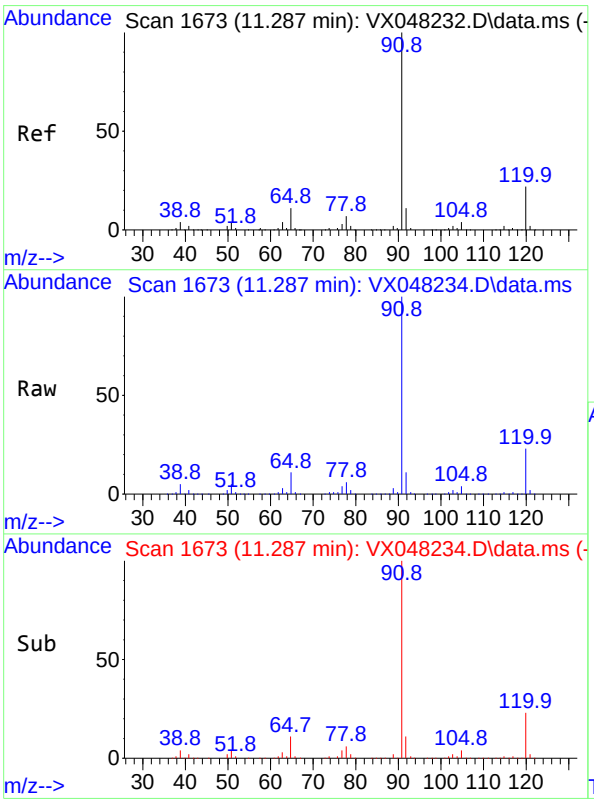
#77
Bromobenzene
Concen: 150.063 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:156 Resp: 207212

Ion	Ratio	Lower	Upper
156	100		
77	161.9	87.0	261.0
158	97.9	47.8	143.4

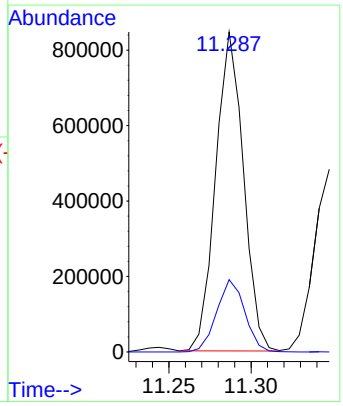


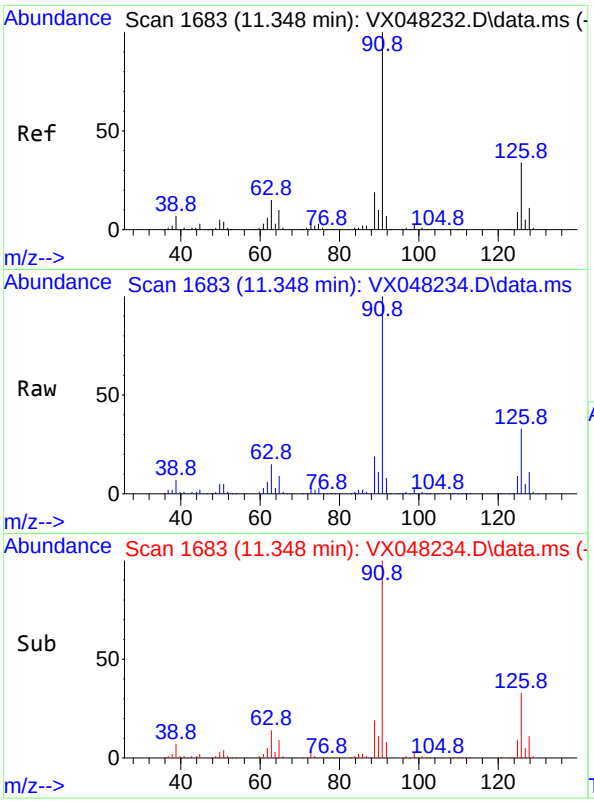


#78
n-propylbenzene
Concen: 155.573 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 91 Resp: 991960

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.1	33.1



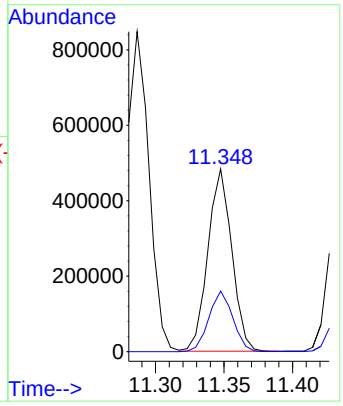


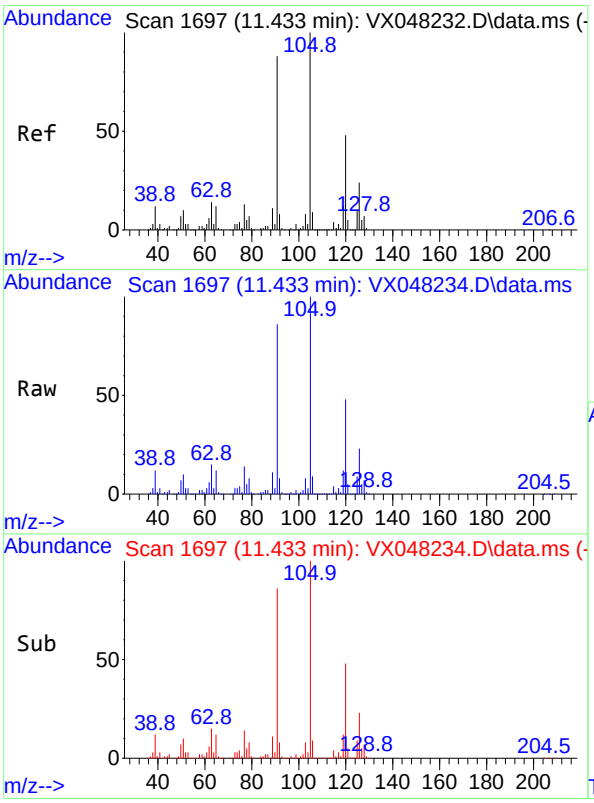
#79
2-Chlorotoluene
Concen: 151.532 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 585792

Ion	Ratio	Lower	Upper
91	100		
126	33.5	16.4	49.4

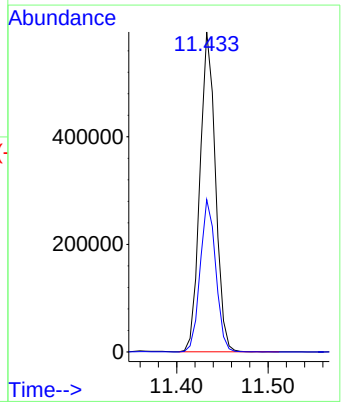


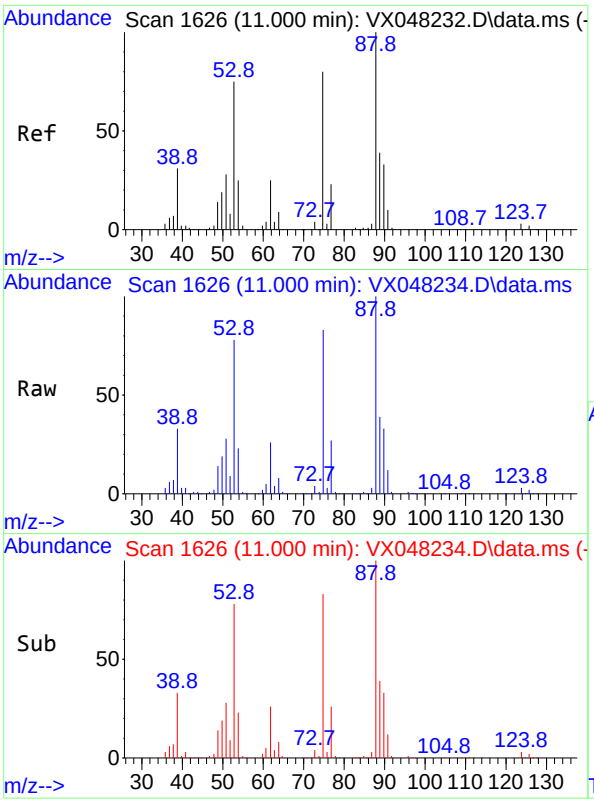


#80
1,3,5-Trimethylbenzene
Concen: 153.574 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:105 Resp: 699885

Ion	Ratio	Lower	Upper
105	100		
120	47.7	24.0	72.0



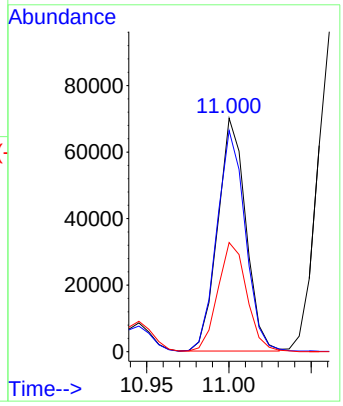


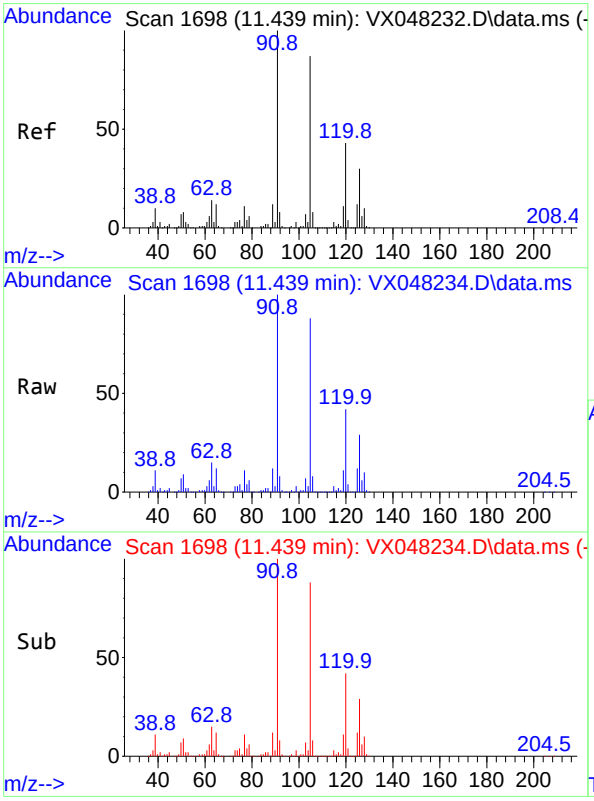
#81
trans-1,4-Dichloro-2-butene
Concen: 165.469 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 83158

Ion	Ratio	Lower	Upper
75	100		
53	96.5	79.5	119.3
89	48.6	36.8	55.2

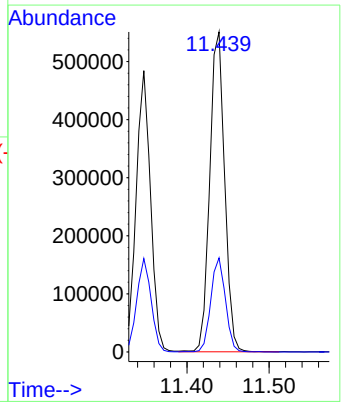


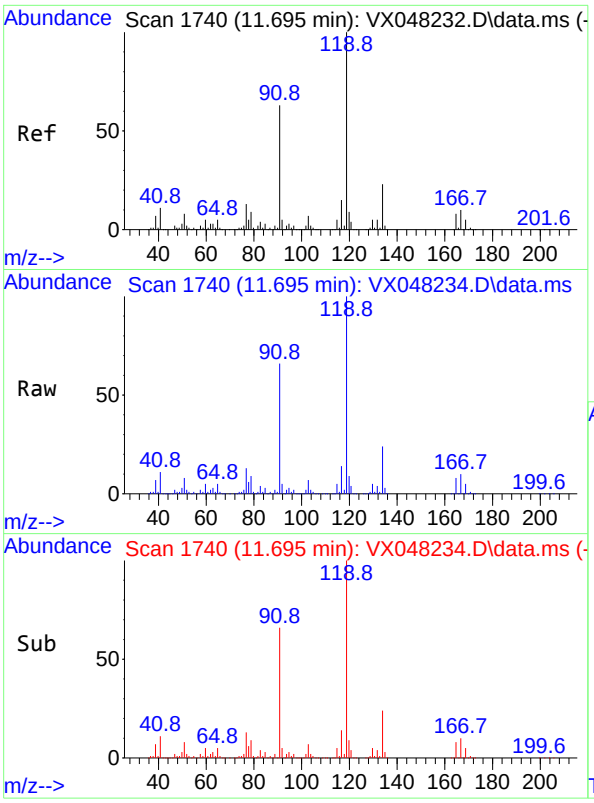


#82
4-Chlorotoluene
Concen: 150.773 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 91 Resp: 691903

Ion	Ratio	Lower	Upper
91	100		
126	29.0	14.1	42.4



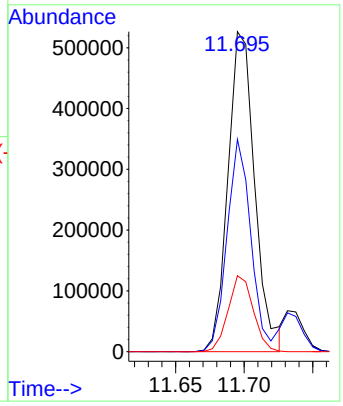


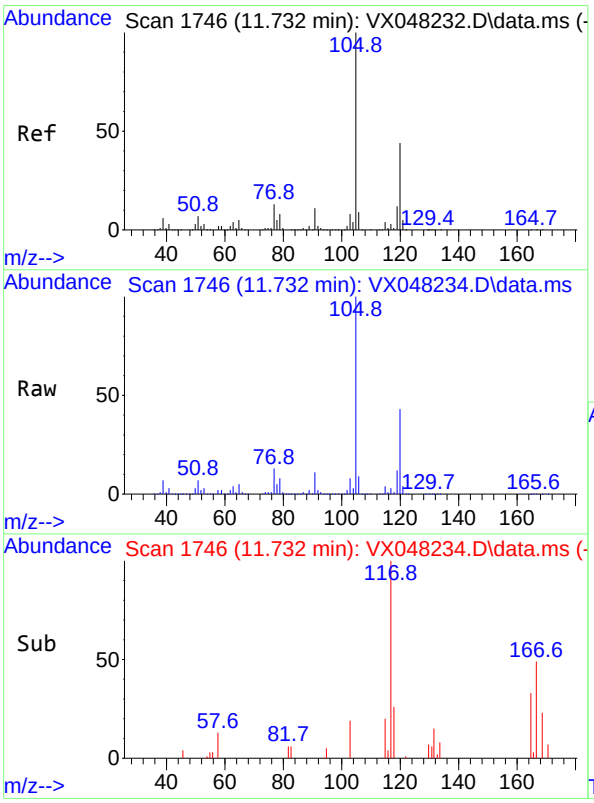
#83
tert-Butylbenzene
Concen: 153.261 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:119 Resp: 717642

Ion	Ratio	Lower	Upper
119	100		
91	58.9	30.3	91.0
134	22.3	11.4	34.2

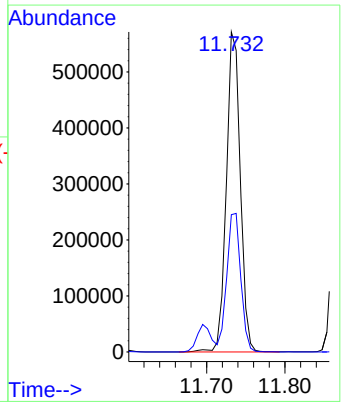


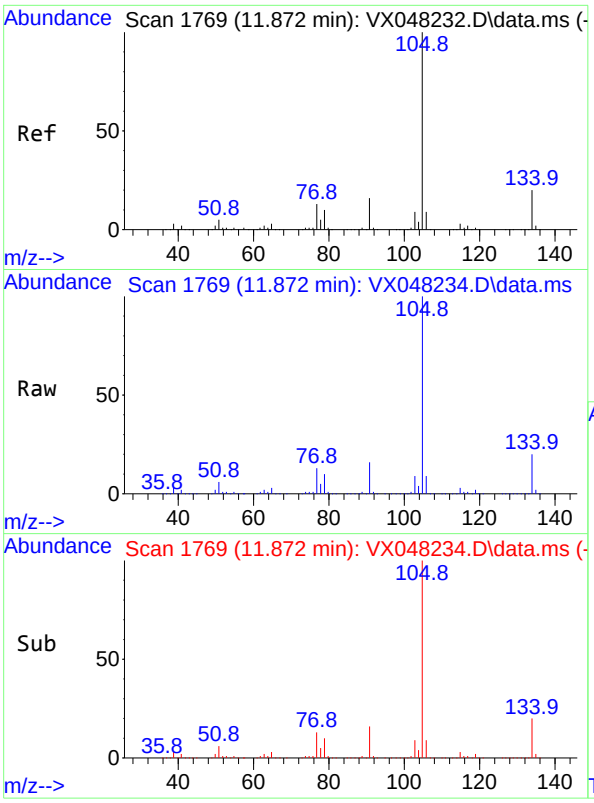


#84
1,2,4-Trimethylbenzene
Concen: 155.464 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:105 Resp: 707074

Ion	Ratio	Lower	Upper
105	100		
120	43.5	22.1	66.5



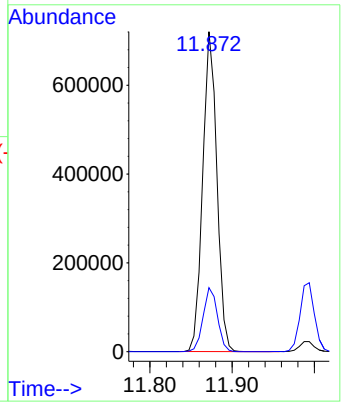


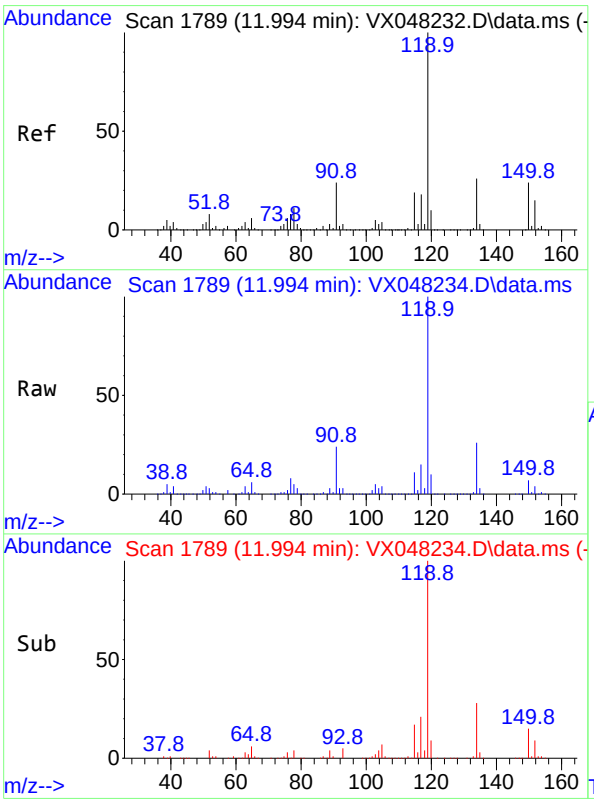
#85
sec-Butylbenzene
Concen: 152.918 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 861466

Ion	Ratio	Lower	Upper
105	100		
134	20.3	10.1	30.1

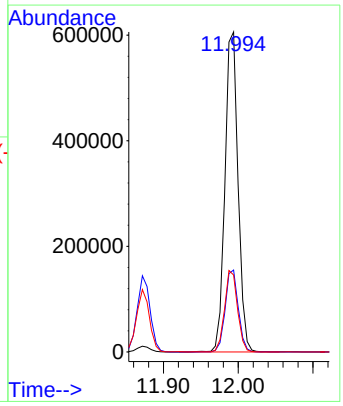


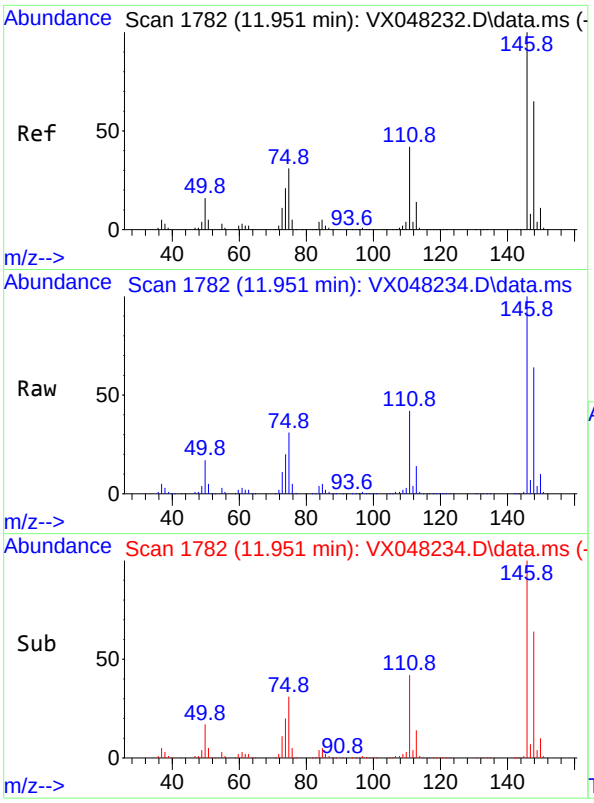


#86
p-Isopropyltoluene
Concen: 151.662 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:119 Resp: 738496

Ion	Ratio	Lower	Upper
119	100		
134	25.6	13.0	39.0
91	25.1	12.1	36.3



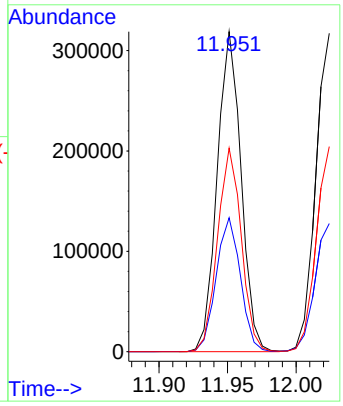


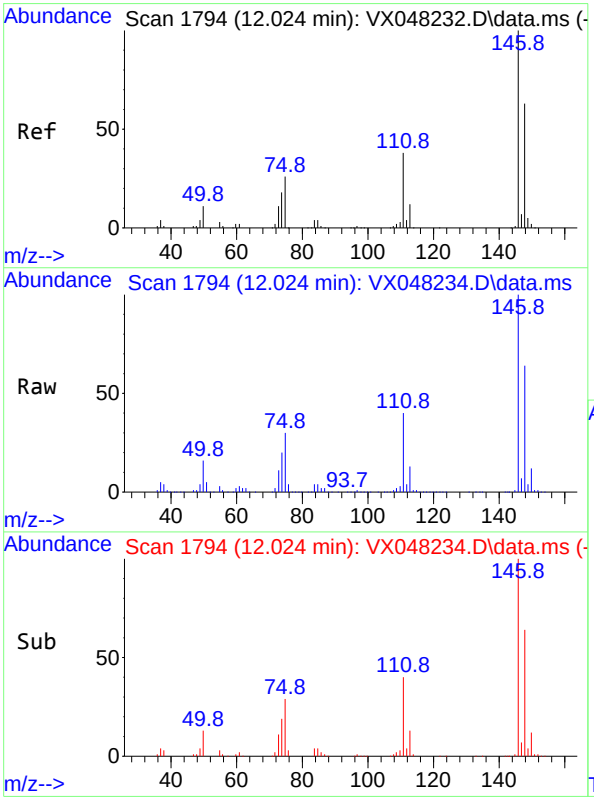
#87
1,3-Dichlorobenzene
Concen: 148.308 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 386062

Ion	Ratio	Lower	Upper
146	100		
111	42.7	20.4	61.2
148	63.5	31.9	95.9

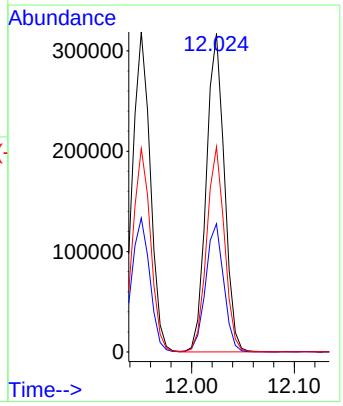


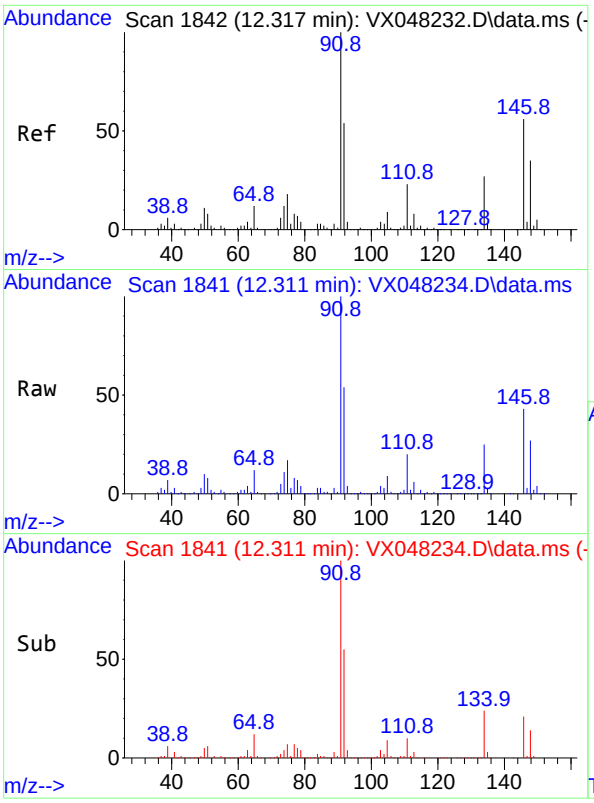


#88
1,4-Dichlorobenzene
Concen: 143.466 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:146 Resp: 386885

Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.1	60.2
148	63.4	31.8	95.3



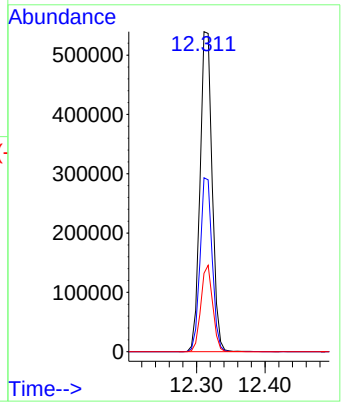


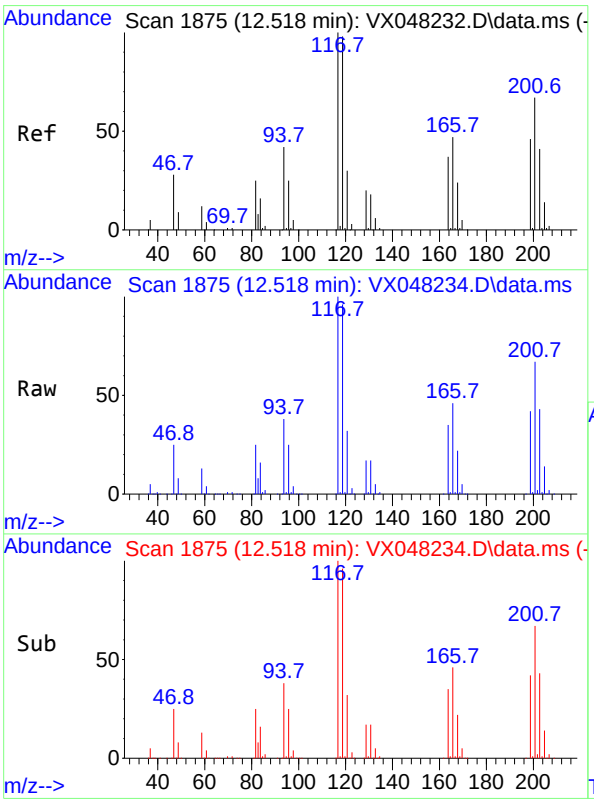
#89
n-Butylbenzene
Concen: 149.834 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 664071

Ion	Ratio	Lower	Upper
91	100		
92	54.4	26.9	80.6
134	26.3	12.7	38.1

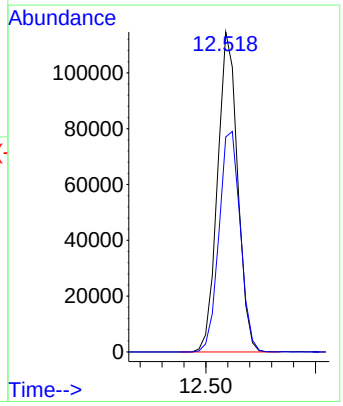


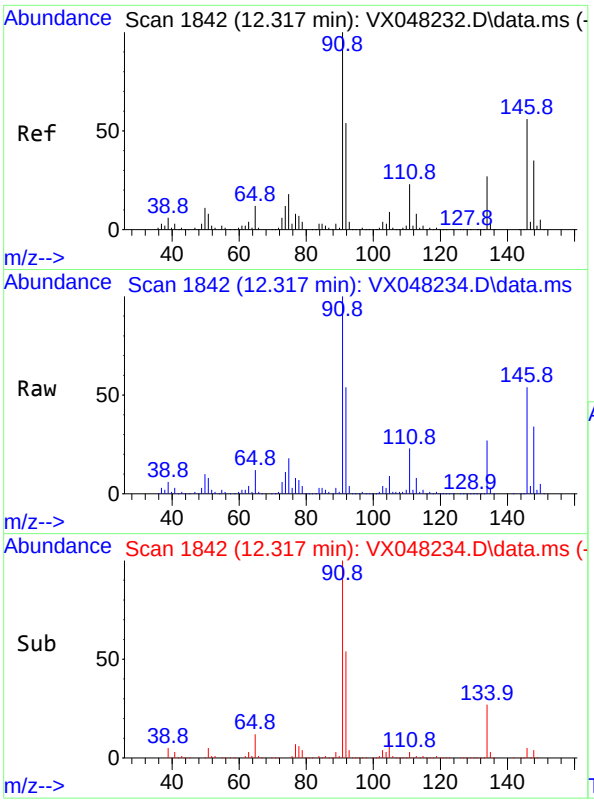


#90
Hexachloroethane
Concen: 151.639 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:117 Resp: 145813

Ion	Ratio	Lower	Upper
117	100		
201	73.0	34.1	102.2



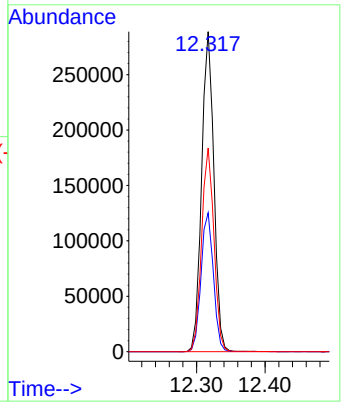


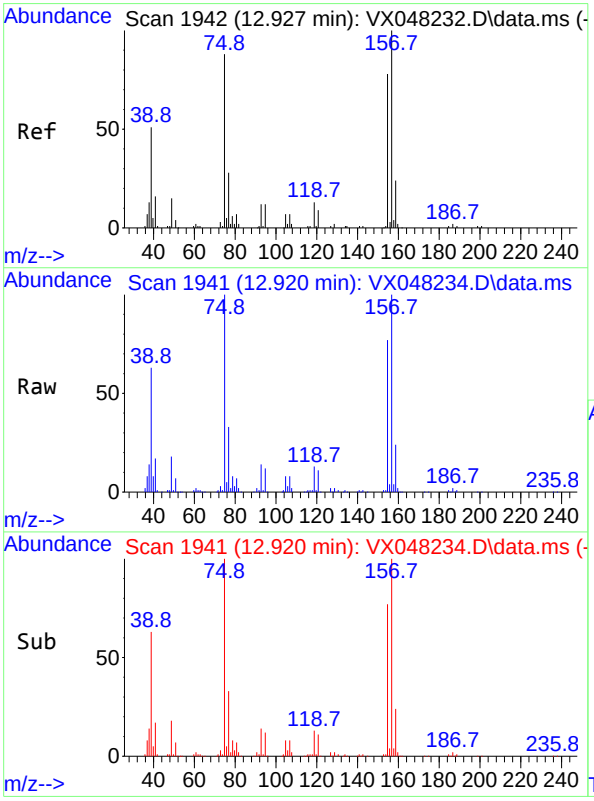
#91
1,2-Dichlorobenzene
Concen: 147.003 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 359278

Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.9	65.5
148	64.4	31.9	95.5

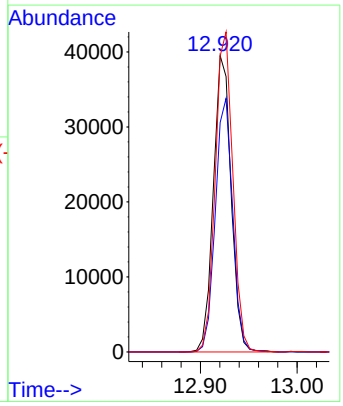


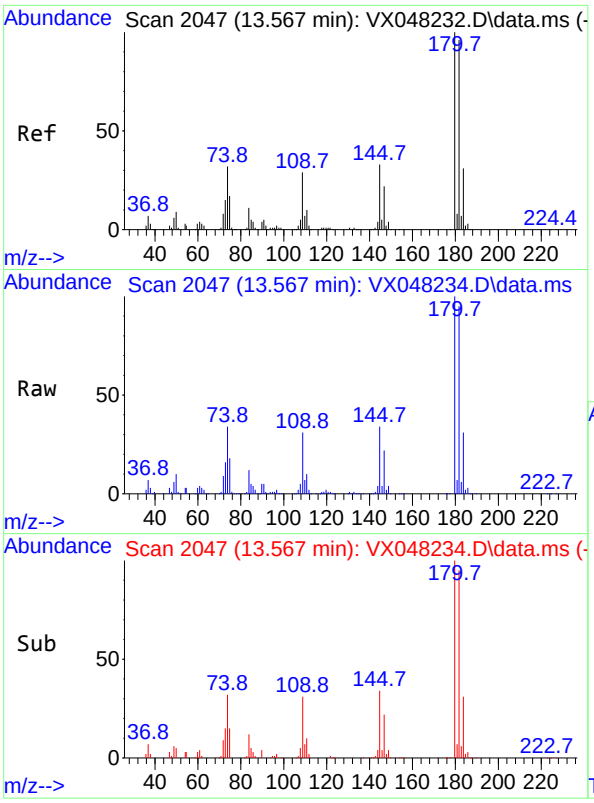


#92
1,2-Dibromo-3-Chloropropane
Concen: 164.993 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 75 Resp: 50367

Ion	Ratio	Lower	Upper
75	100		
155	83.7	42.8	128.4
157	106.9	54.2	162.6



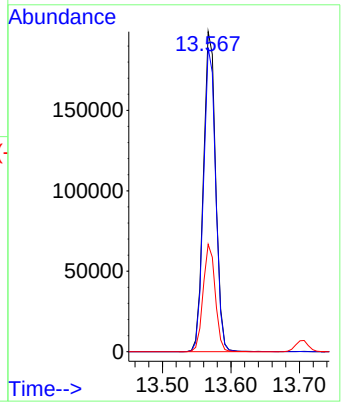


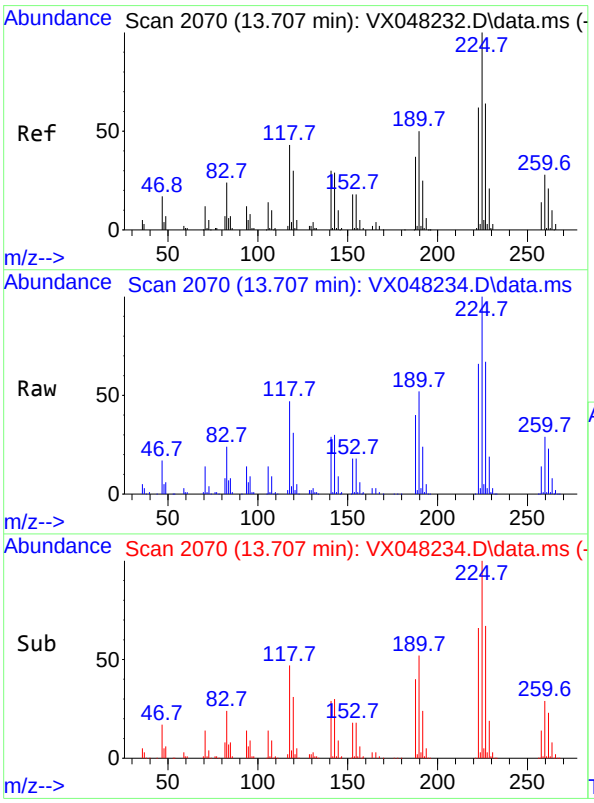
#93
1,2,4-Trichlorobenzene
Concen: 149.729 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:180 Resp: 247472

Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.3	142.0
145	33.2	16.3	48.9

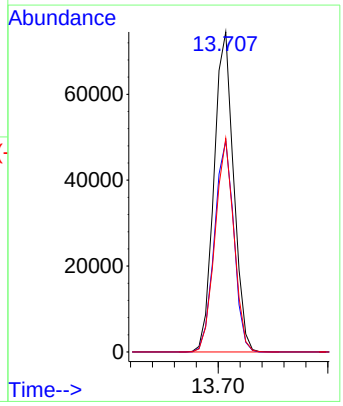


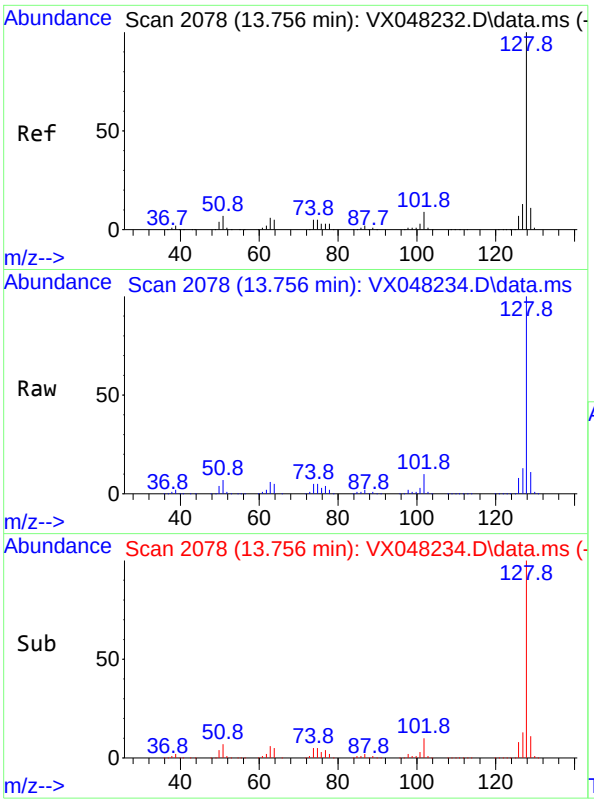


#94
Hexachlorobutadiene
Concen: 149.152 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:225 Resp: 92458

Ion	Ratio	Lower	Upper
225	100		
223	65.2	32.6	97.7
227	64.3	32.5	97.4



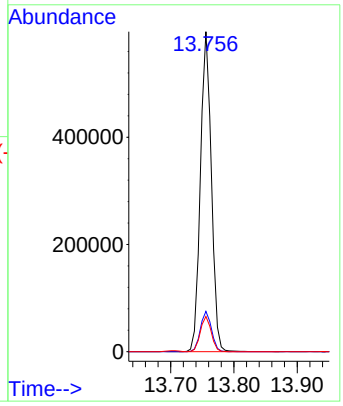


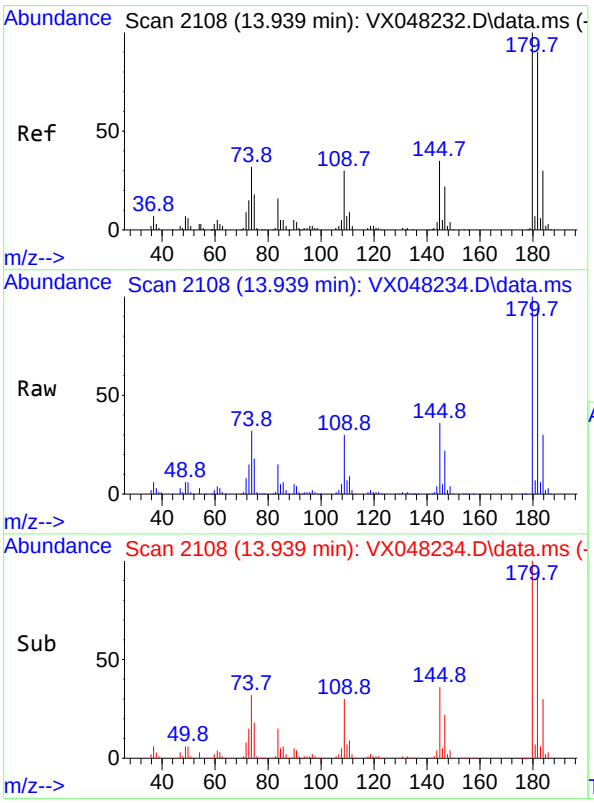
#95
Naphthalene
Concen: 164.296 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:128 Resp: 719433

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.4
129	11.0	8.6	12.8

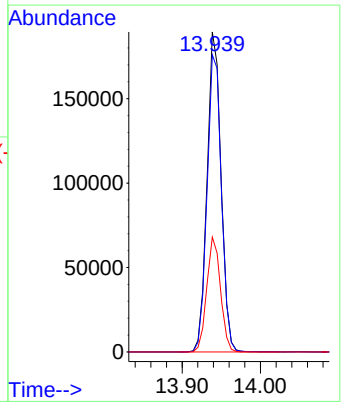




#96
1,2,3-Trichlorobenzene
Concen: 154.069 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:180 Resp: 233671

Ion	Ratio	Lower	Upper
180	100		
182	95.5	46.6	139.7
145	35.4	16.9	50.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048236.D
Acq On : 20 Oct 2025 13:49
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Oct 25 03:37:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.537	168	138374	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.751	114	228619	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.037	117	208481	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	105998	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.940	65	10036	5.173	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 10.340%#				
35) Dibromofluoromethane	5.379	113	7733	4.955	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 9.900%#				
50) Toluene-d8	8.634	98	27914	5.102	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 10.200%#				
62) 4-Bromofluorobenzene	11.067	95	11429	5.492	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 10.980%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.172	85	7219	5.075	ug/l		93
3) Chloromethane	1.300	50	7032	5.296	ug/l		95
4) Vinyl Chloride	1.380	62	6338	5.155	ug/l		98
5) Bromomethane	1.611	94	4789	5.739	ug/l		99
6) Chloroethane	1.691	64	3610	4.997	ug/l		99
7) Trichlorofluoromethane	1.898	101	12170	5.161	ug/l		96
8) Diethyl Ether	2.136	74	3283	4.948	ug/l		87
9) 1,1,2-Trichlorotrifluo...	2.337	101	7656	5.127	ug/l		92
10) Methyl Iodide	2.453	142	7871	4.193	ug/l		98
11) Tert butyl alcohol	2.940	59	5994	31.117	ug/l	#	80
12) 1,1-Dichloroethene	2.325	96	7107	4.892	ug/l		91
13) Acrolein	2.233	56	5456	27.772	ug/l		96
14) Allyl chloride	2.666	41	11531	4.781	ug/l		96
15) Acrylonitrile	3.062	53	16982	24.449	ug/l		97
16) Acetone	2.373	43	18141	27.256	ug/l		100
17) Carbon Disulfide	2.520	76	23369	5.104	ug/l		96
18) Methyl Acetate	2.703	43	6418	4.617	ug/l		98
19) Methyl tert-butyl Ether	3.111	73	22931	4.627	ug/l		97
20) Methylene Chloride	2.788	84	8228	5.074	ug/l	#	81
21) trans-1,2-Dichloroethene	3.093	96	8343	5.228	ug/l		94
22) Diisopropyl ether	3.757	45	23533	4.892	ug/l	#	97
23) Vinyl Acetate	3.721	43	91771	23.881	ug/l	#	90
24) 1,1-Dichloroethane	3.605	63	14582	5.013	ug/l	#	97
25) 2-Butanone	4.550	43	21808	25.887	ug/l	#	89
26) 2,2-Dichloropropane	4.471	77	13077	4.981	ug/l		99
27) cis-1,2-Dichloroethene	4.483	96	9312	5.000	ug/l		96
28) Bromochloromethane	4.885	49	6488	5.379	ug/l	#	89
29) Tetrahydrofuran	4.995	42	12637	25.047	ug/l		98
30) Chloroform	5.086	83	15814	5.089	ug/l		96
31) Cyclohexane	5.458	56	11661	4.842	ug/l		98
32) 1,1,1-Trichloroethane	5.367	97	14399	5.027	ug/l		98
36) 1,1-Dichloropropene	5.684	75	10855	4.893	ug/l		99
37) Ethyl Acetate	4.702	43	7759	4.220	ug/l	#	75
38) Carbon Tetrachloride	5.672	117	14225	5.198	ug/l	#	81
39) Methylcyclohexane	7.366	83	13491	5.149	ug/l		97
40) Benzene	6.031	78	32115	4.986	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048236.D
Acq On : 20 Oct 2025 13:49
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Oct 25 03:37:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.910	41	2340	2.423 ug/l #	38
42) 1,2-Dichloroethane	6.074	62	11412	4.802 ug/l	100
43) Isopropyl Acetate	6.330	43	13996	4.634 ug/l #	93
44) Trichloroethene	7.110	130	8373	4.923 ug/l	93
45) 1,2-Dichloropropane	7.415	63	7709	5.034 ug/l	99
46) Dibromomethane	7.568	93	6041	5.064 ug/l	91
47) Bromodichloromethane	7.811	83	12974	5.037 ug/l	97
48) Methyl methacrylate	7.683	41	6863	4.503 ug/l	94
49) 1,4-Dioxane	7.659	88	2020	100.322 ug/l	97
51) 4-Methyl-2-Pentanone	8.555	43	42725	24.534 ug/l	97
52) Toluene	8.708	92	21137	5.166 ug/l	97
53) t-1,3-Dichloropropene	8.964	75	12015	4.840 ug/l	98
54) cis-1,3-Dichloropropene	8.354	75	12702	4.743 ug/l	90
55) 1,1,2-Trichloroethane	9.140	97	8113	5.332 ug/l	91
56) Ethyl methacrylate	9.104	69	10320	4.637 ug/l	94
57) 1,3-Dichloropropane	9.293	76	13087	5.035 ug/l	99
58) 2-Chloroethyl Vinyl ether	8.232	63	20764	18.931 ug/l	98
59) 2-Hexanone	9.415	43	30949	25.488 ug/l	96
60) Dibromochloromethane	9.506	129	10082	4.930 ug/l	99
61) 1,2-Dibromoethane	9.592	107	8079	4.980 ug/l	100
64) Tetrachloroethene	9.256	164	8020	5.153 ug/l	92
65) Chlorobenzene	10.061	112	23873	5.090 ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.146	131	8450	4.905 ug/l	98
67) Ethyl Benzene	10.177	91	39121	4.899 ug/l	96
68) m/p-Xylenes	10.287	106	30310	10.217 ug/l	97
69) o-Xylene	10.628	106	14262	4.979 ug/l	98
70) Styrene	10.640	104	24289	4.980 ug/l	98
71) Bromoform	10.780	173	6766	4.915 ug/l #	96
73) Isopropylbenzene	10.945	105	37935	4.900 ug/l	99
74) N-amyl acetate	10.829	43	12188	4.438 ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.195	83	10324	4.883 ug/l	98
76) 1,2,3-Trichloropropane	11.225	75	10217	5.944 ug/l	91
77) Bromobenzene	11.183	156	9508	4.898 ug/l	94
78) n-propylbenzene	11.286	91	44189	4.930 ug/l	99
79) 2-Chlorotoluene	11.347	91	26627	4.899 ug/l	98
80) 1,3,5-Trimethylbenzene	11.433	105	30618	4.779 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.000	75	3038	4.300 ug/l	96
82) 4-Chlorotoluene	11.439	91	31357	4.860 ug/l	97
83) tert-Butylbenzene	11.695	119	32297	4.906 ug/l	96
84) 1,2,4-Trimethylbenzene	11.731	105	31709	4.959 ug/l	100
85) sec-Butylbenzene	11.872	105	39113	4.939 ug/l	99
86) p-Isopropyltoluene	11.994	119	34155	4.989 ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	18546	5.068 ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	18787	4.955 ug/l	91
89) n-Butylbenzene	12.317	91	30409	4.880 ug/l	99
90) Hexachloroethane	12.518	117	6863	5.077 ug/l	98
91) 1,2-Dichlorobenzene	12.317	146	16849	4.904 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.926	75	1984	4.623 ug/l	98
93) 1,2,4-Trichlorobenzene	13.573	180	10538	4.535 ug/l	98
94) Hexachlorobutadiene	13.707	225	5113	5.931 ug/l	96
95) Naphthalene	13.756	128	26218	4.259 ug/l	98
96) 1,2,3-Trichlorobenzene	13.944	180	10040	4.709 ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048236.D
Acq On : 20 Oct 2025 13:49
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Oct 25 03:37:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

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

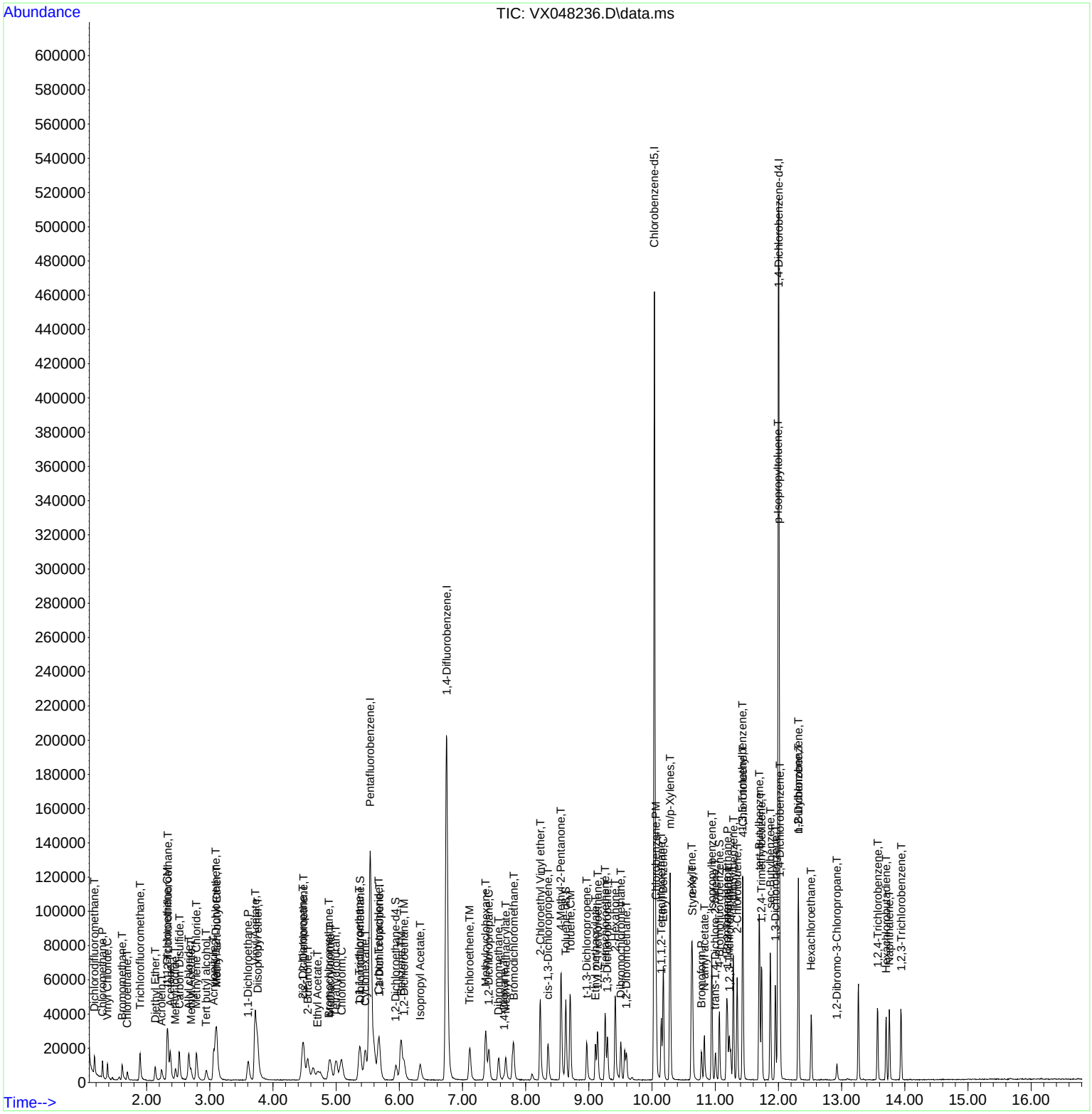
(#) = qualifier out of range (m) = manual integration (+) = signals summed

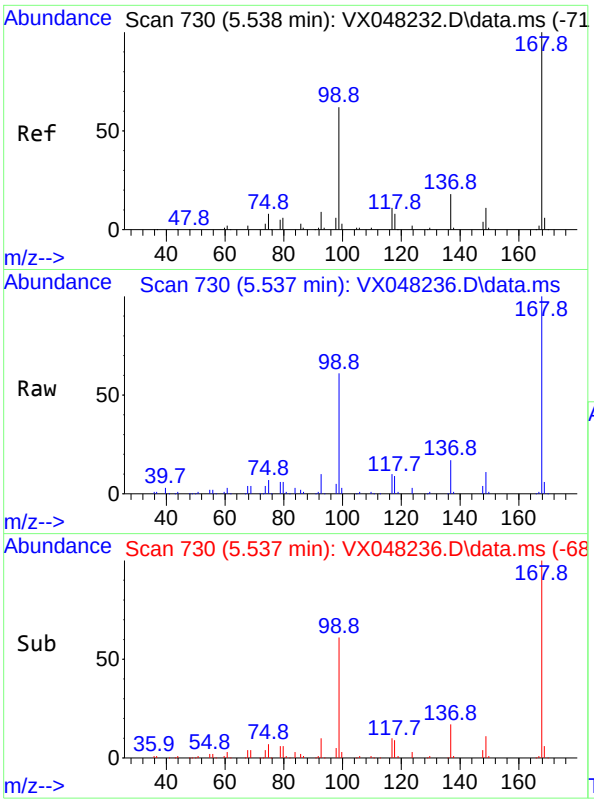
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048236.D
Acq On : 20 Oct 2025 13:49
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Oct 25 03:37:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration



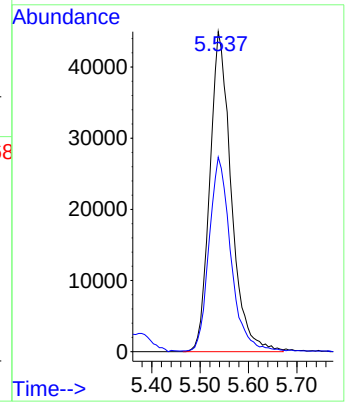


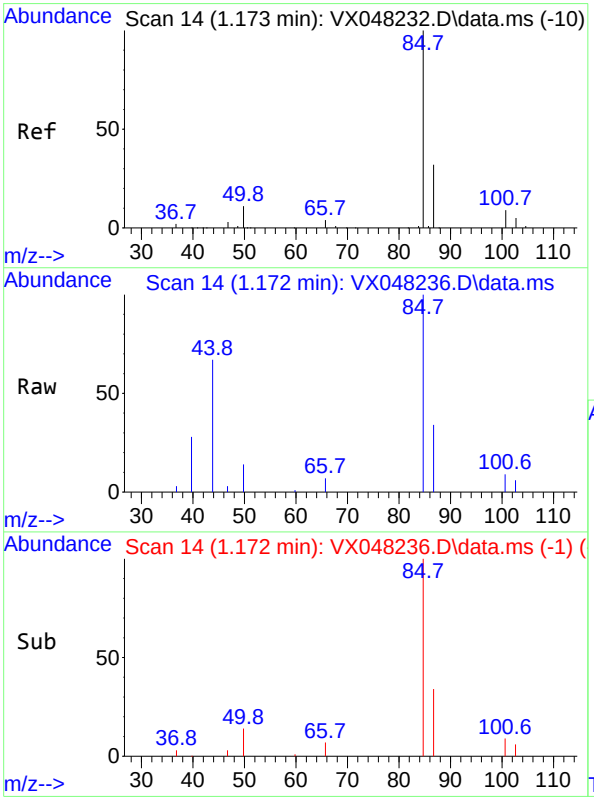
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 138374

Ion	Ratio	Lower	Upper
168	100		
99	60.5	46.4	69.6

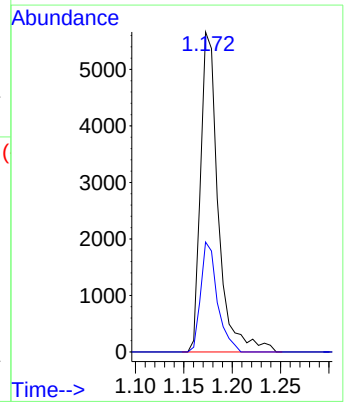


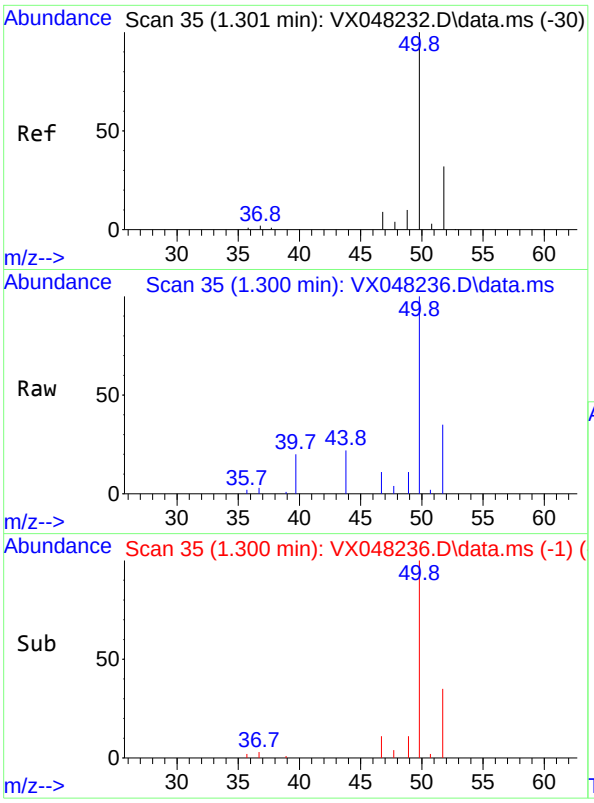


#2
Dichlorodifluoromethane
Concen: 5.075 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 85 Resp: 7219

Ion	Ratio	Lower	Upper
85	100		
87	34.3	15.3	45.9



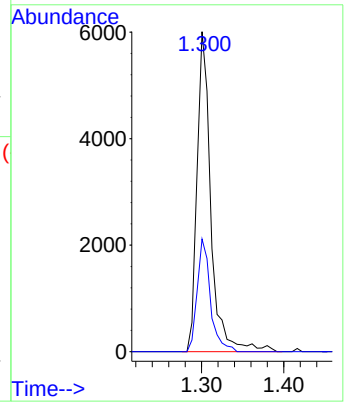


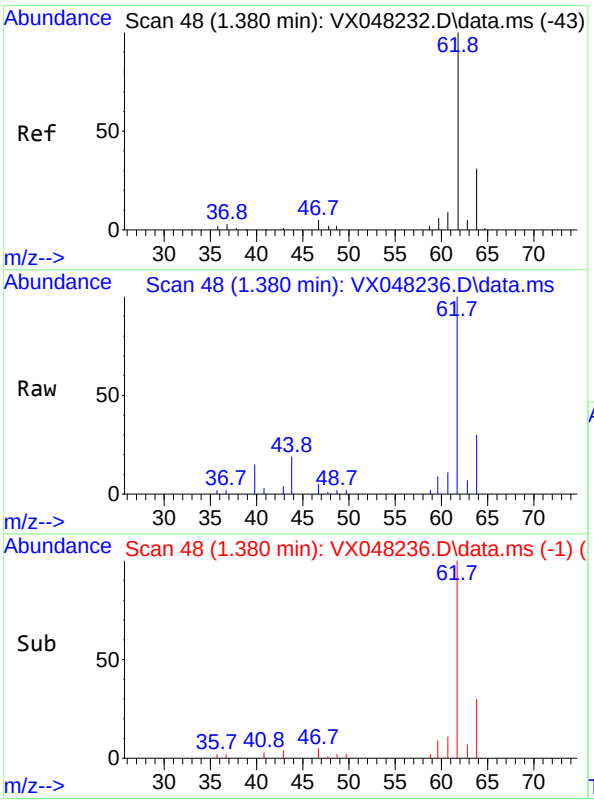
#3
Chloromethane
Concen: 5.296 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 7032

Ion	Ratio	Lower	Upper
50	100		
52	35.2	25.9	38.9

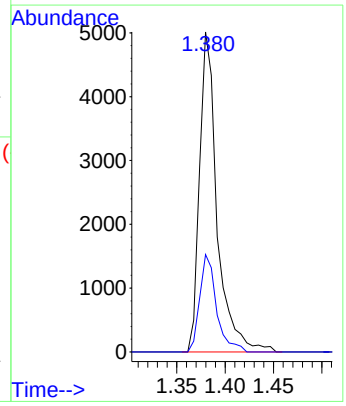


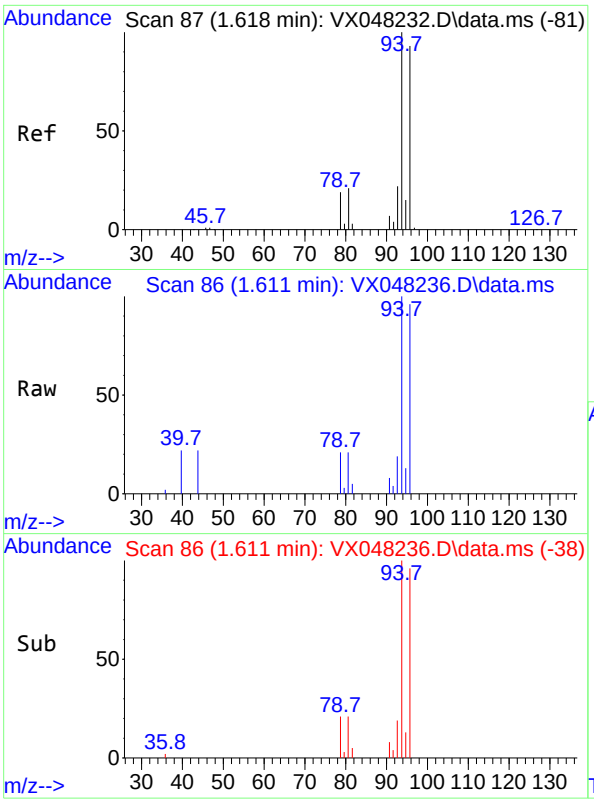


#4
Vinyl Chloride
Concen: 5.155 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 62 Resp: 6338

Ion	Ratio	Lower	Upper
62	100		
64	30.5	25.1	37.7



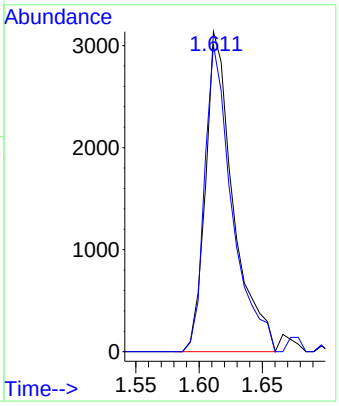


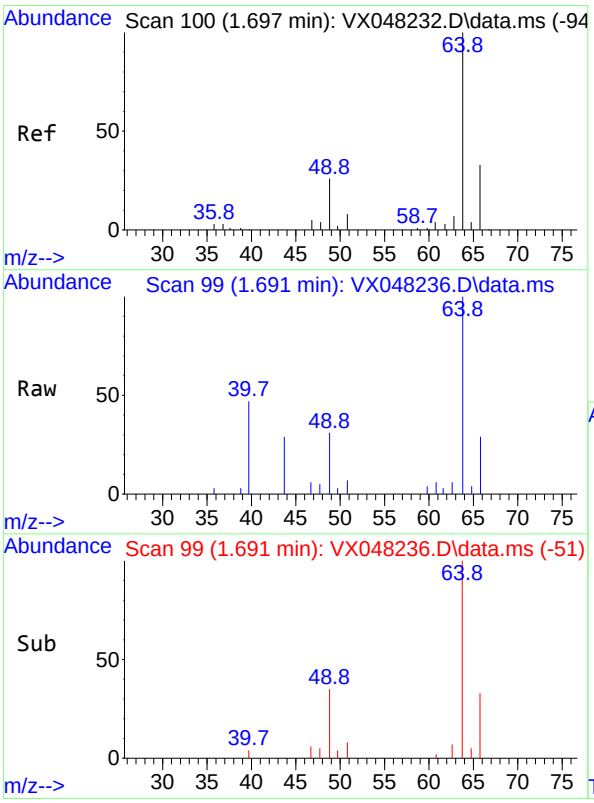
#5
Bromomethane
Concen: 5.739 ug/l
RT: 1.611 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 4789

Ion	Ratio	Lower	Upper
94	100		
96	95.8	76.0	114.0

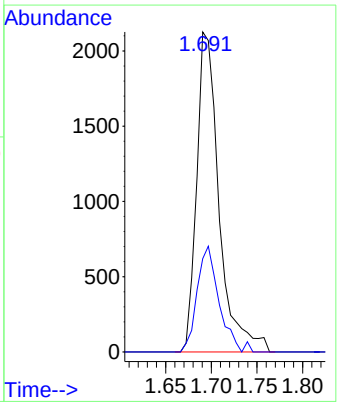


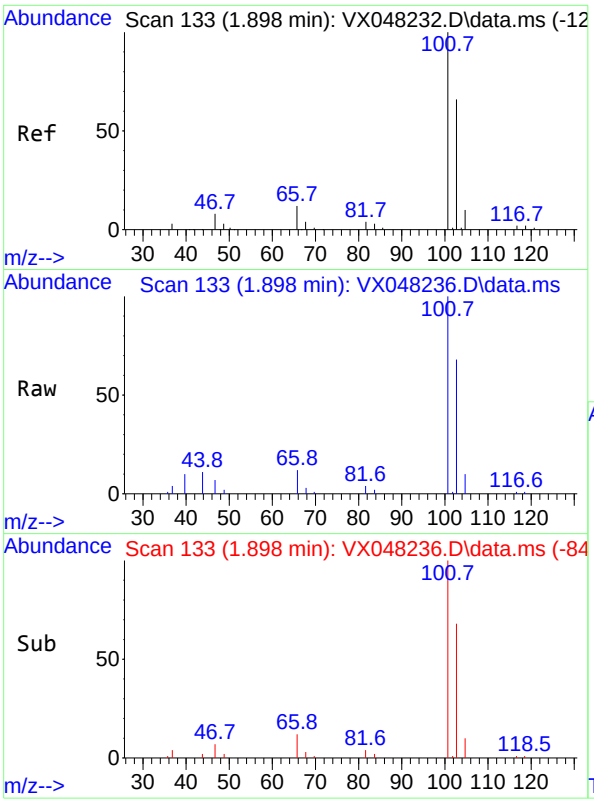


#6
Chloroethane
Concen: 4.997 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 64 Resp: 3610

Ion	Ratio	Lower	Upper
64	100		
66	29.2	23.9	35.9



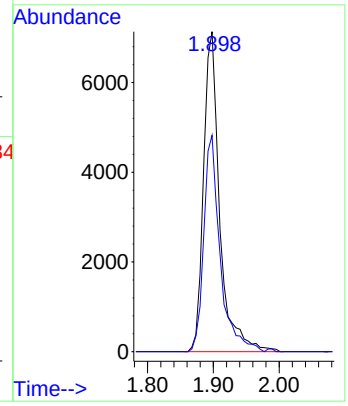


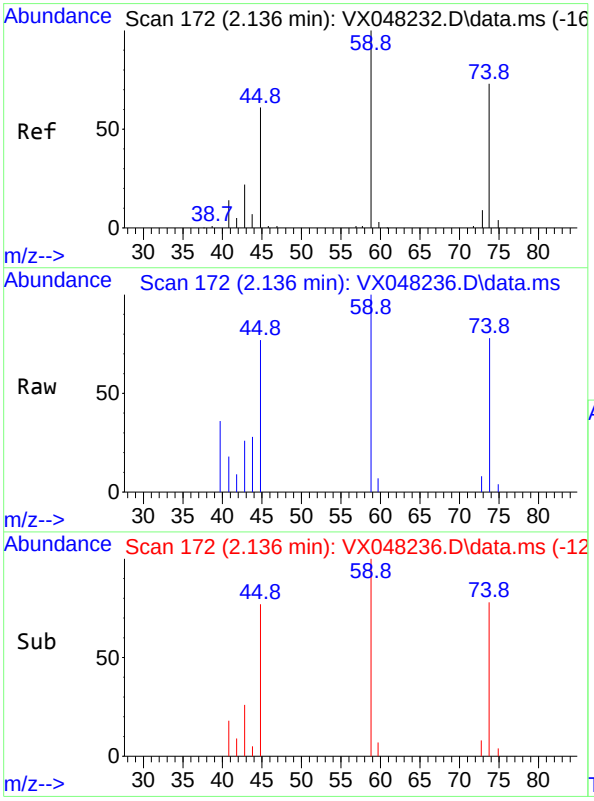
#7
Trichlorofluoromethane
Concen: 5.161 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 12170

Ion	Ratio	Lower	Upper
101	100		
103	67.6	51.6	77.4

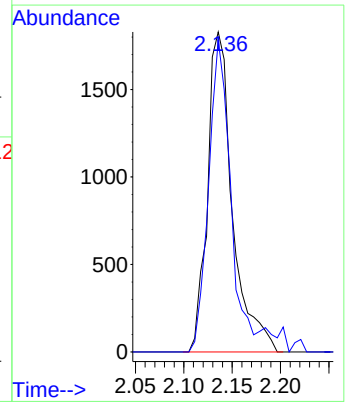


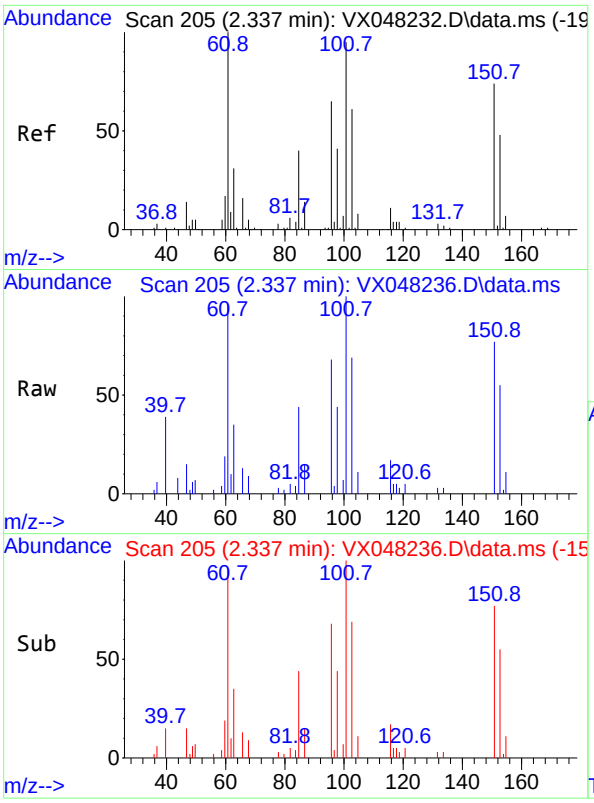


#8
Diethyl Ether
Concen: 4.948 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 74 Resp: 3283

Ion	Ratio	Lower	Upper
74	100		
45	86.7	50.0	149.8



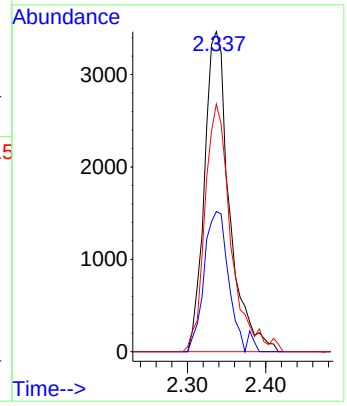


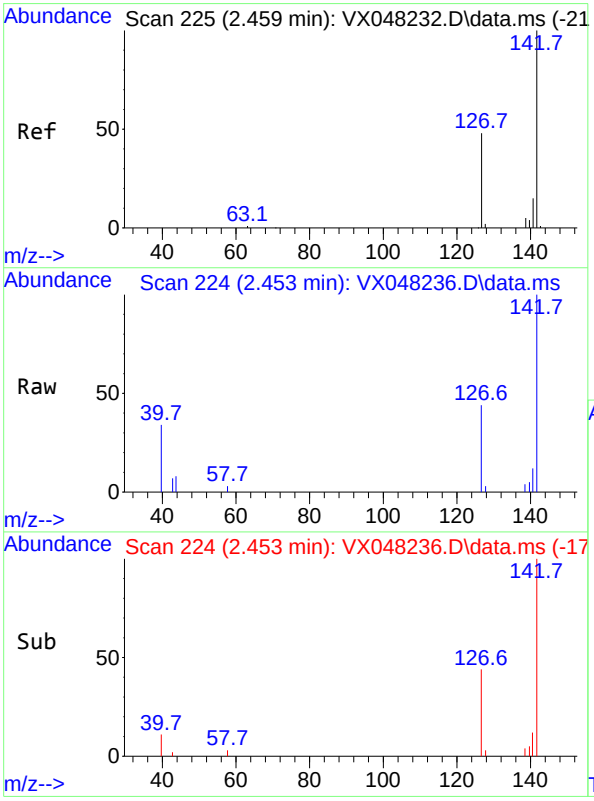
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.127 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 7656

Ion	Ratio	Lower	Upper
101	100		
85	42.4	35.6	53.4
151	81.0	58.0	87.0

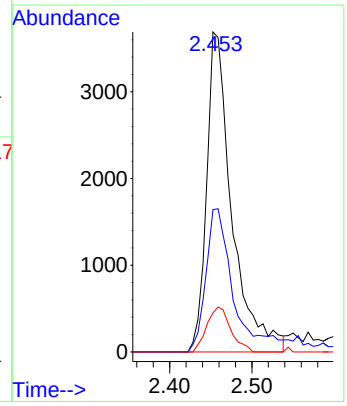


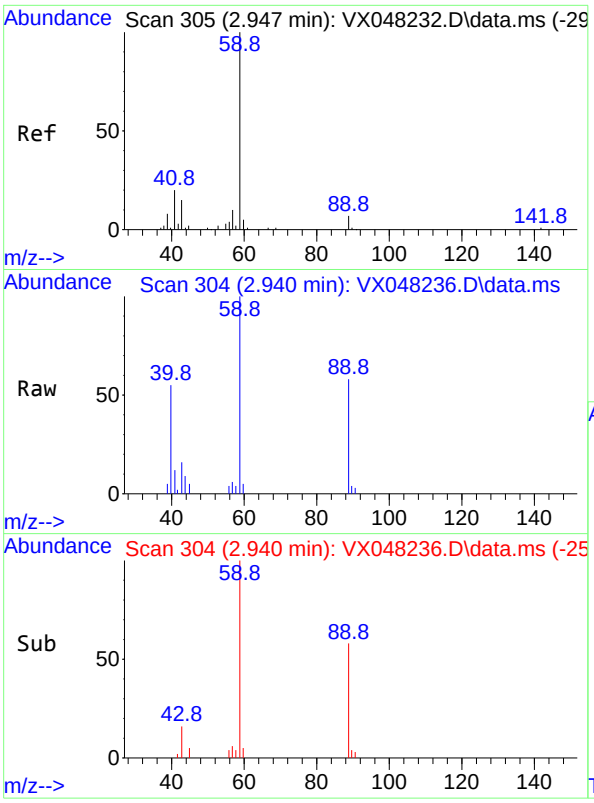


#10
Methyl Iodide
Concen: 4.193 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:142 Resp: 7871

Ion	Ratio	Lower	Upper
142	100		
127	48.9	38.5	57.7
141	13.3	11.6	17.4



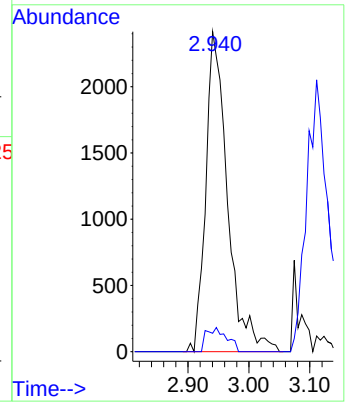


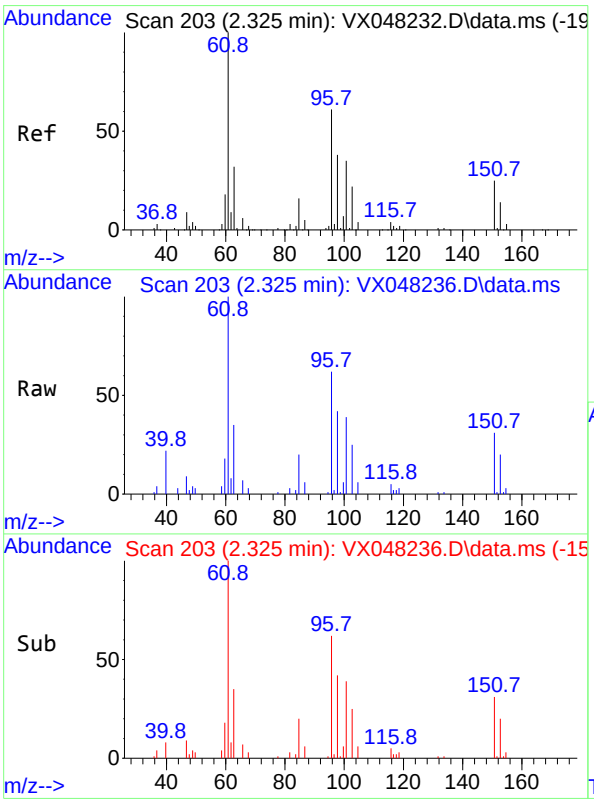
#11
Tert butyl alcohol
Concen: 31.117 ug/l
RT: 2.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 59 Resp: 5994

Ion	Ratio	Lower	Upper
59	100		
57	2.8	8.2	12.4#

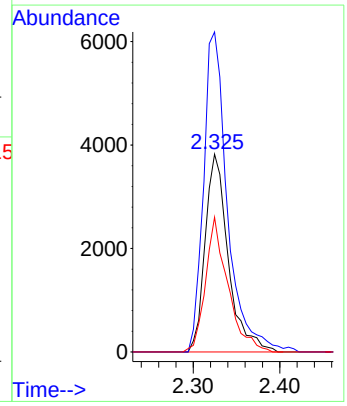


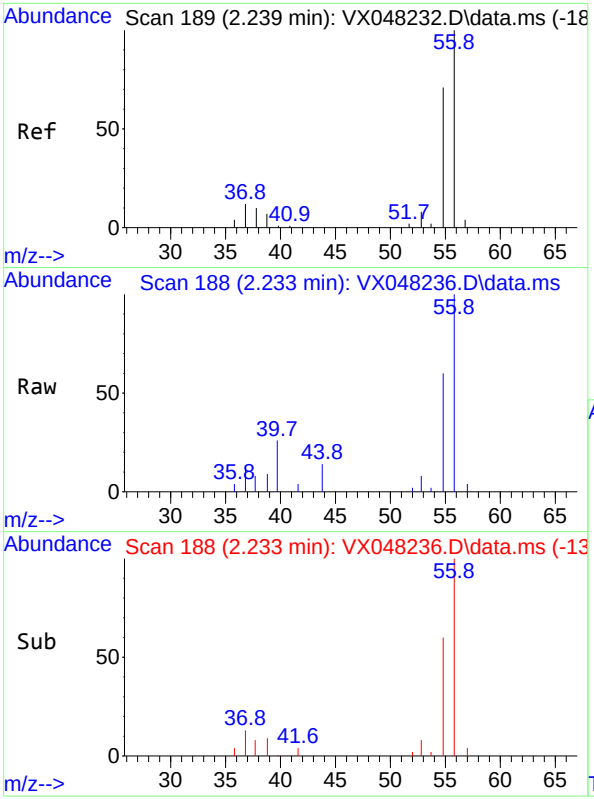


#12
1,1-Dichloroethene
Concen: 4.892 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 96 Resp: 7107

Ion	Ratio	Lower	Upper
96	100		
61	156.9	139.0	208.6
98	66.1	52.4	78.6



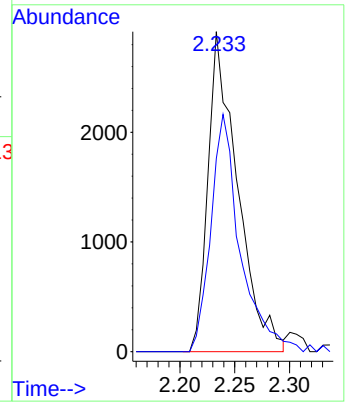


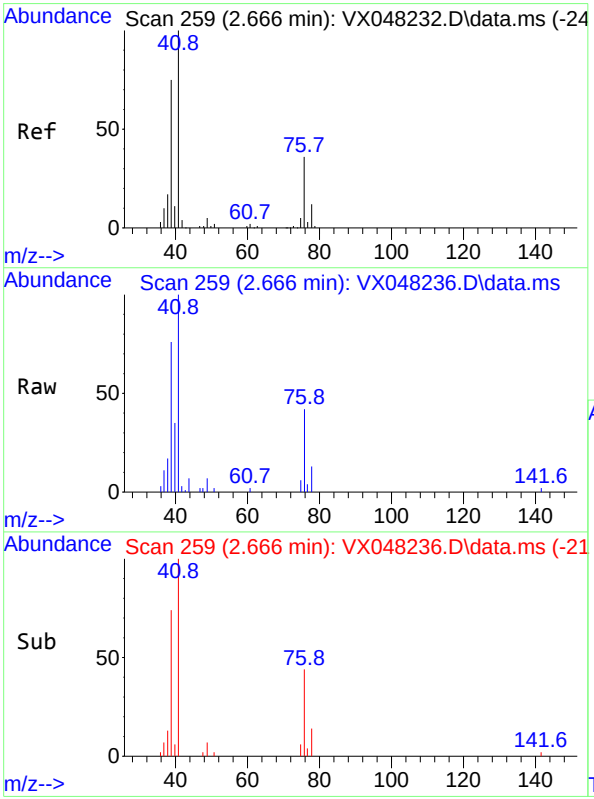
#13
Acrolein
Concen: 27.772 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 5456

Ion	Ratio	Lower	Upper
56	100		
55	73.7	56.1	84.1

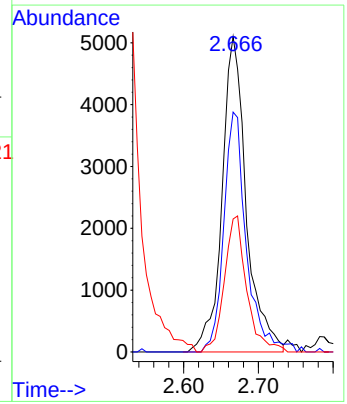


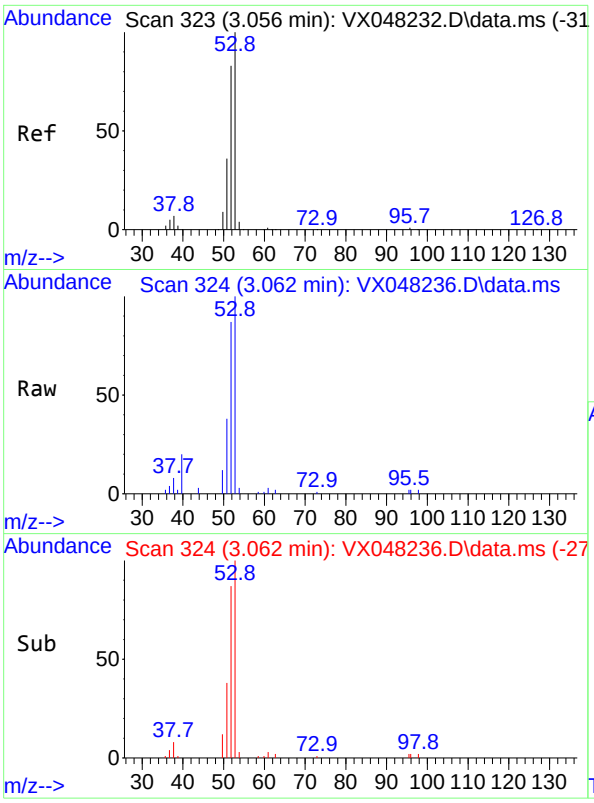


#14
Allyl chloride
Concen: 4.781 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 41 Resp: 11531

Ion	Ratio	Lower	Upper
41	100		
39	71.2	56.0	84.0
76	39.7	27.5	41.3



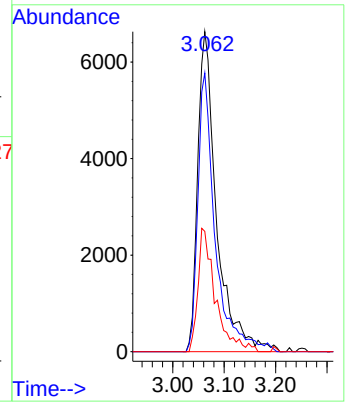


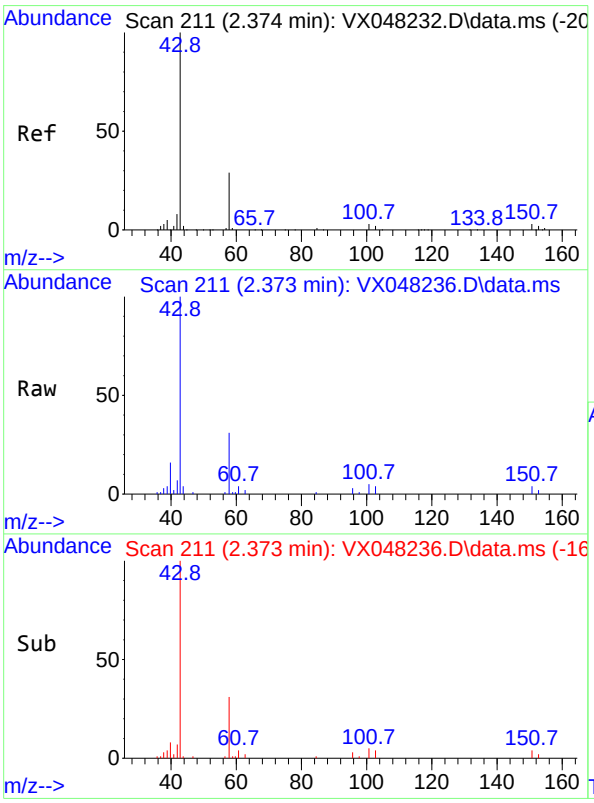
#15
Acrylonitrile
Concen: 24.449 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 53 Resp: 16982

Ion	Ratio	Lower	Upper
53	100		
52	80.1	66.1	99.1
51	34.9	29.0	43.4

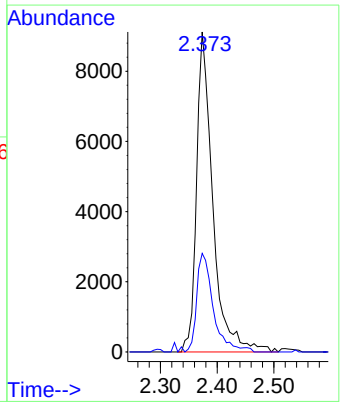


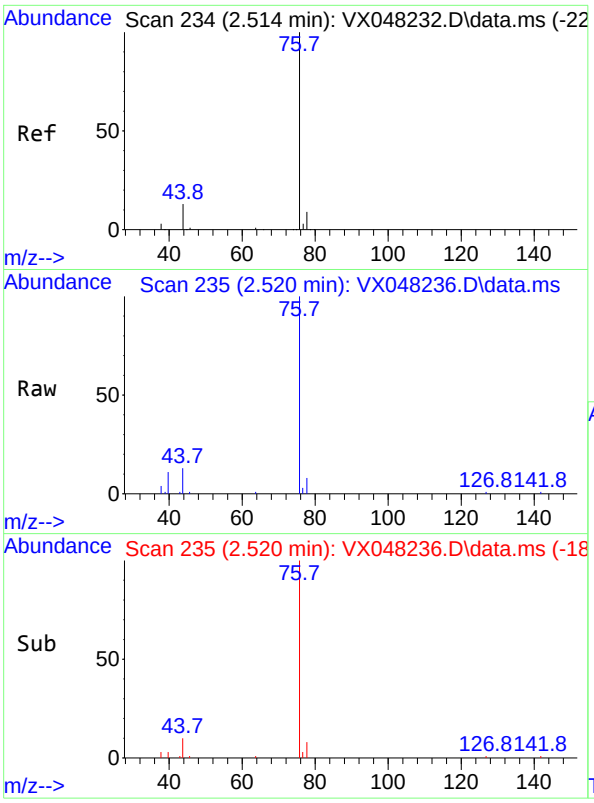


#16
Acetone
Concen: 27.256 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 43 Resp: 18141

Ion	Ratio	Lower	Upper
43	100		
58	29.5	23.4	35.2



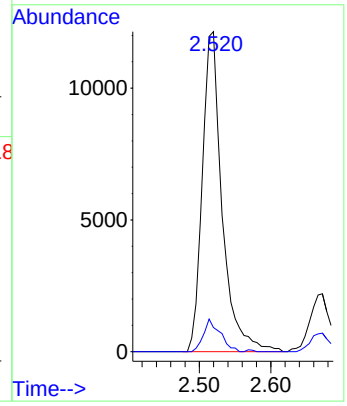


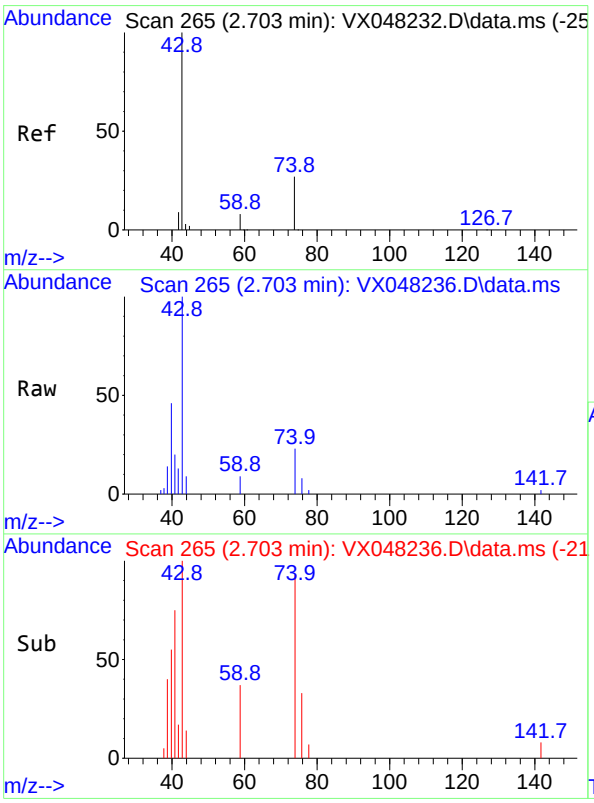
#17
Carbon Disulfide
Concen: 5.104 ug/l
RT: 2.520 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 23369

Ion	Ratio	Lower	Upper
76	100		
78	7.3	7.1	10.7

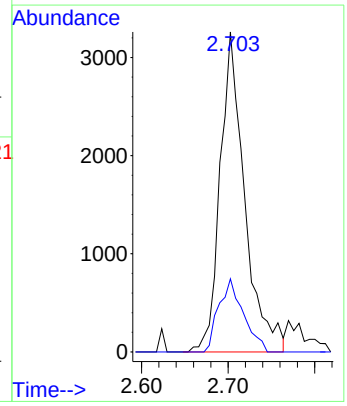


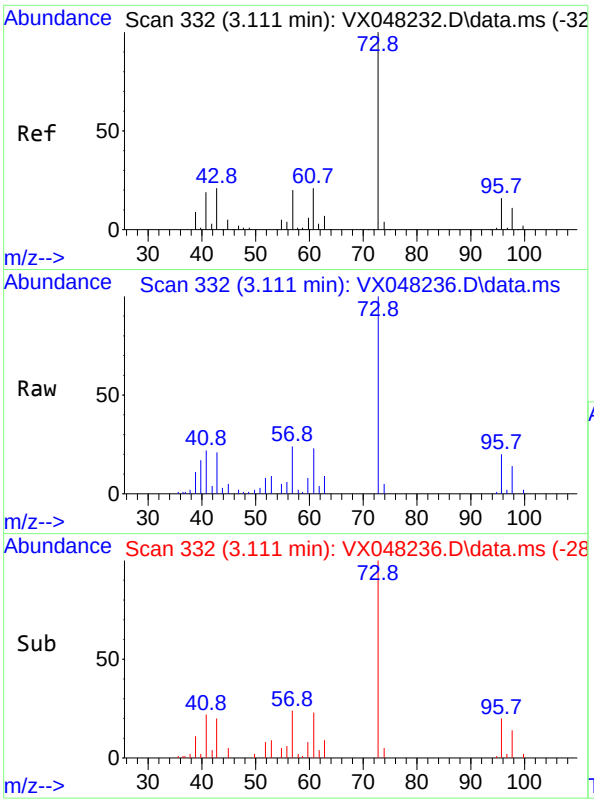


#18
Methyl Acetate
Concen: 4.617 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 43 Resp: 6418

Ion	Ratio	Lower	Upper
43	100		
74	23.0	17.5	26.3



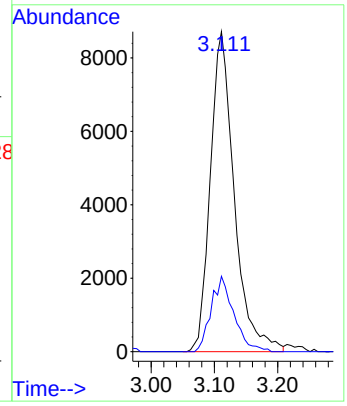


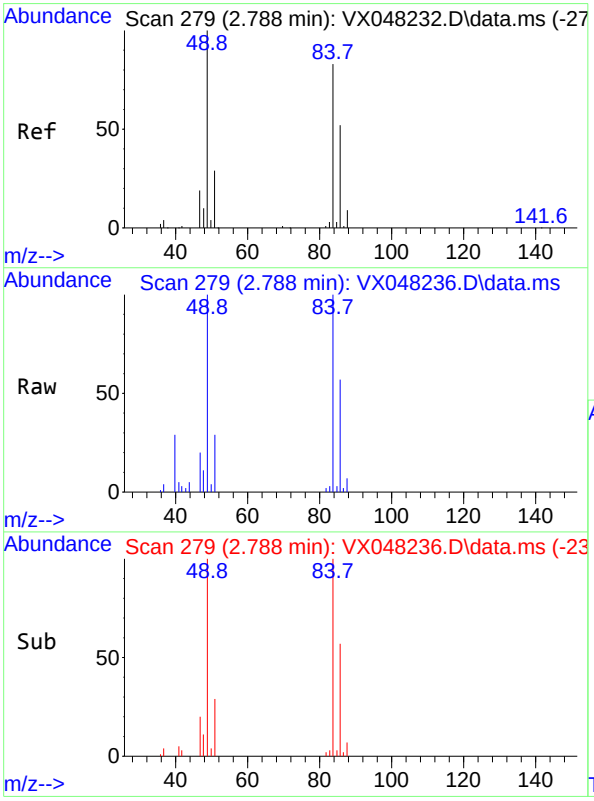
#19
Methyl tert-butyl Ether
Concen: 4.627 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 73 Resp: 22931

Ion	Ratio	Lower	Upper
73	100		
57	23.6	17.7	26.5

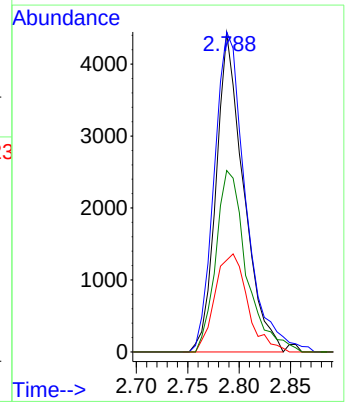


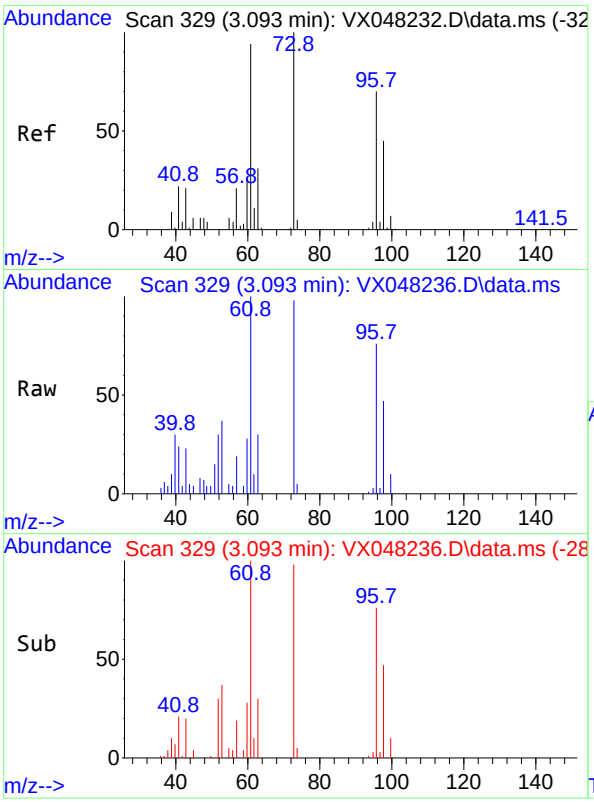


#20
Methylene Chloride
Concen: 5.074 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 84 Resp: 8228

Ion	Ratio	Lower	Upper
84	100		
49	100.4	104.1	156.1#
51	28.8	31.3	46.9#
86	58.6	51.3	76.9



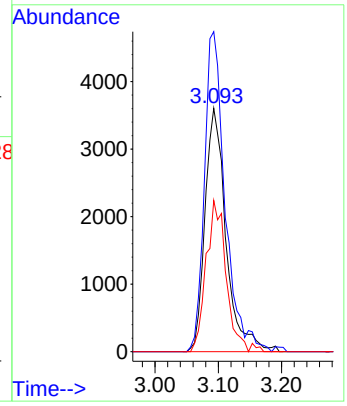


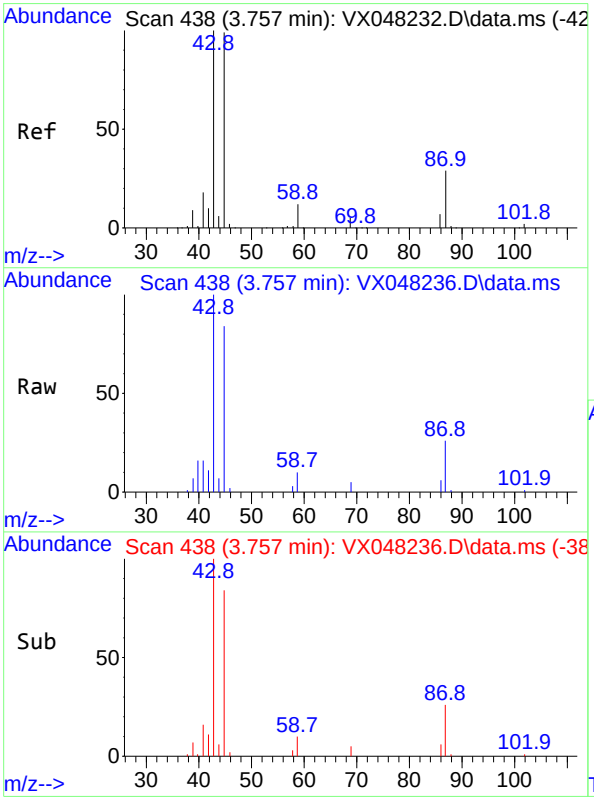
#21
trans-1,2-Dichloroethene
Concen: 5.228 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 8343

Ion	Ratio	Lower	Upper
96	100		
61	131.5	111.9	167.9
98	62.1	51.2	76.8

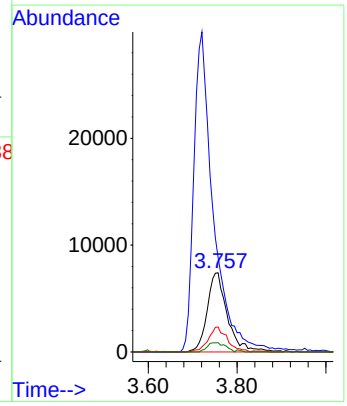


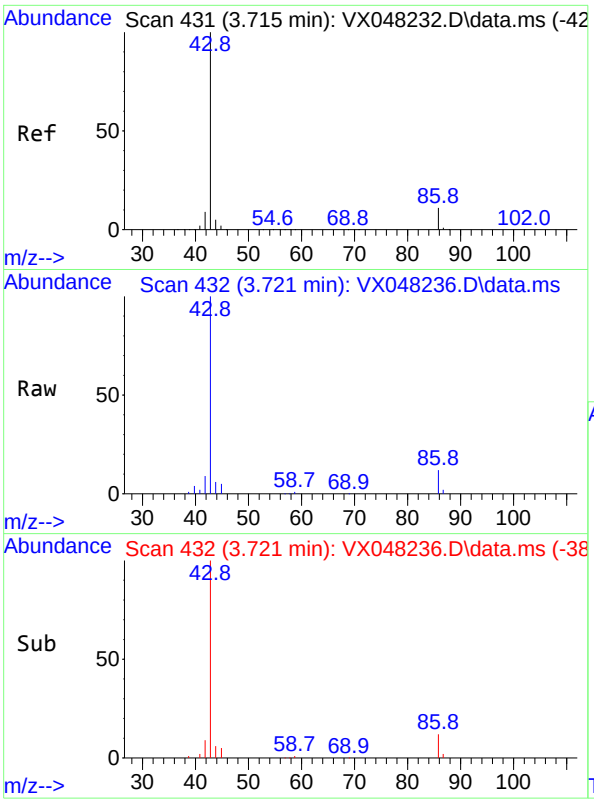


#22
Diisopropyl ether
Concen: 4.892 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 45 Resp: 23533

Ion	Ratio	Lower	Upper
45	100		
43	113.3	89.8	134.8
87	31.5	20.6	31.0#
59	11.7	9.1	13.7



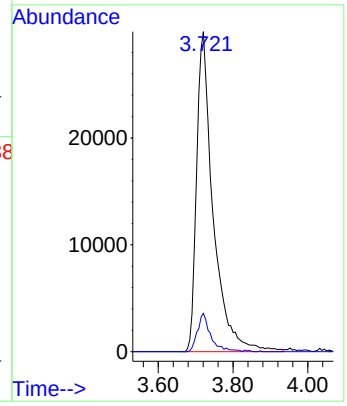


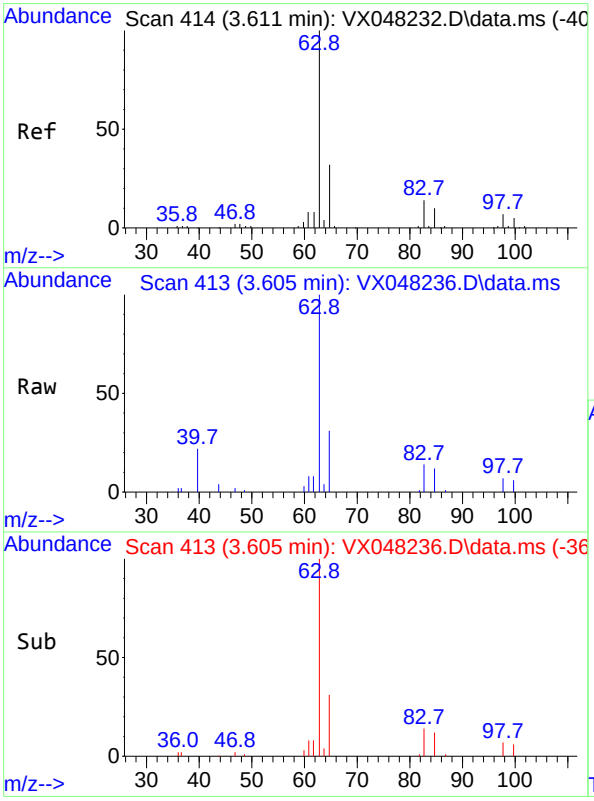
#23
Vinyl Acetate
Concen: 23.881 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 91771

Ion	Ratio	Lower	Upper
43	100		
86	13.5	7.9	11.9#

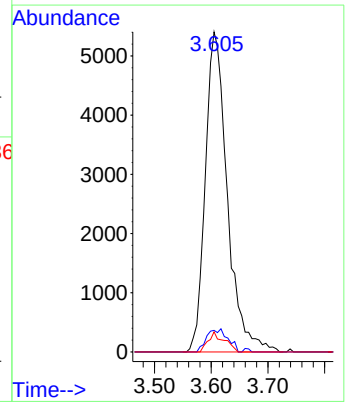


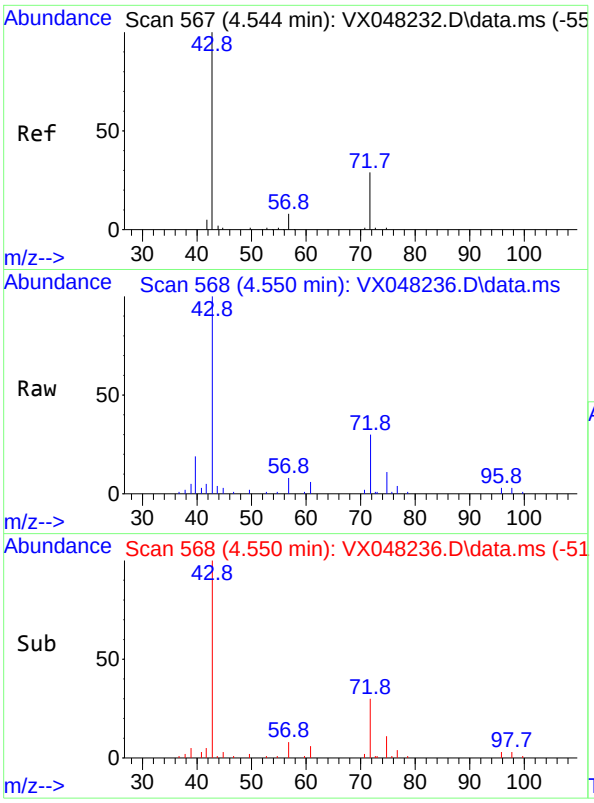


#24
1,1-Dichloroethane
Concen: 5.013 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 63 Resp: 14582

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.5	10.6
100	6.3	2.1	6.3#



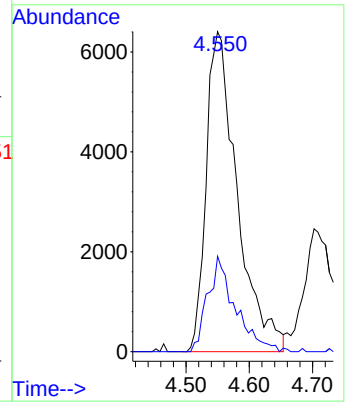


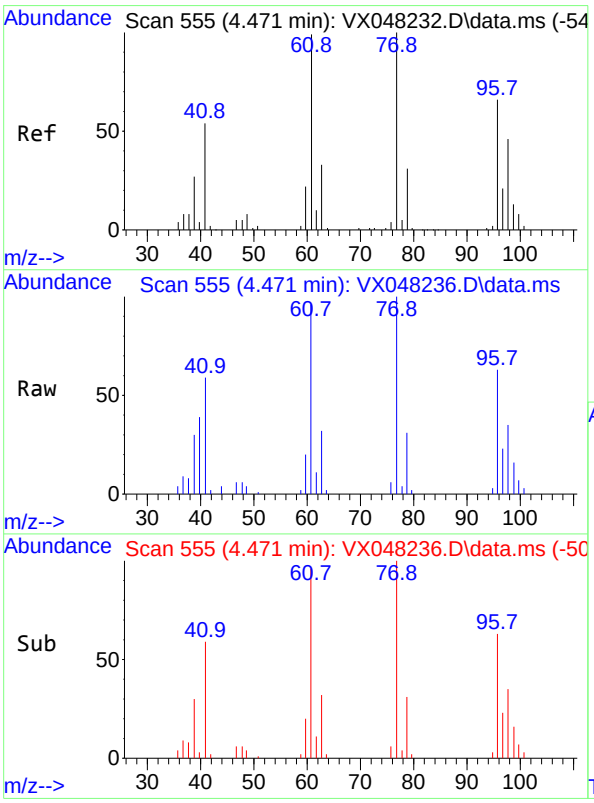
#25
2-Butanone
Concen: 25.887 ug/l
RT: 4.550 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 21808

Ion	Ratio	Lower	Upper
43	100		
72	30.6	19.9	29.9#

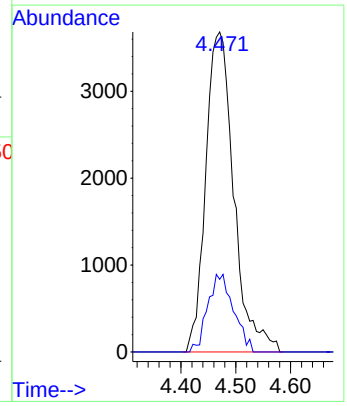


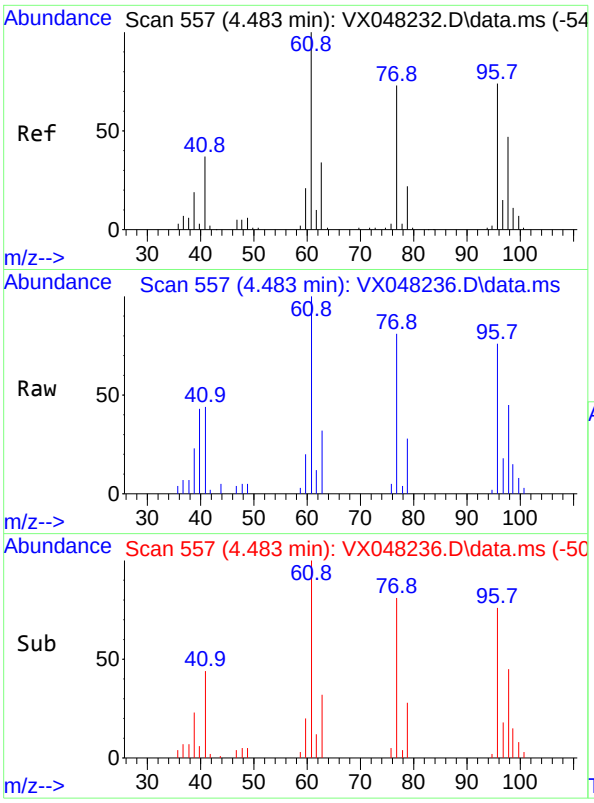


#26
2,2-Dichloropropane
Concen: 4.981 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 77 Resp: 13077

Ion	Ratio	Lower	Upper
77	100		
97	22.5	11.1	33.3



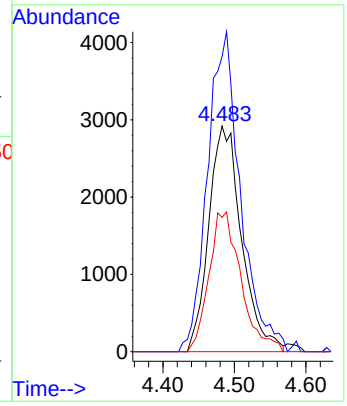


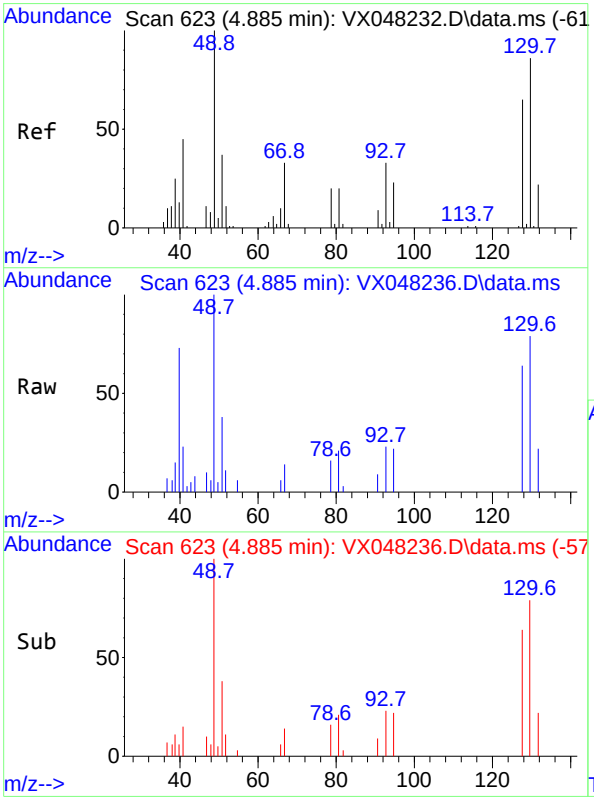
#27
cis-1,2-Dichloroethene
Concen: 5.000 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 9312

Ion	Ratio	Lower	Upper
96	100		
61	142.5	0.0	294.2
98	60.5	0.0	128.4

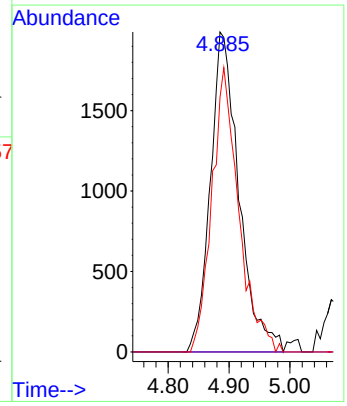


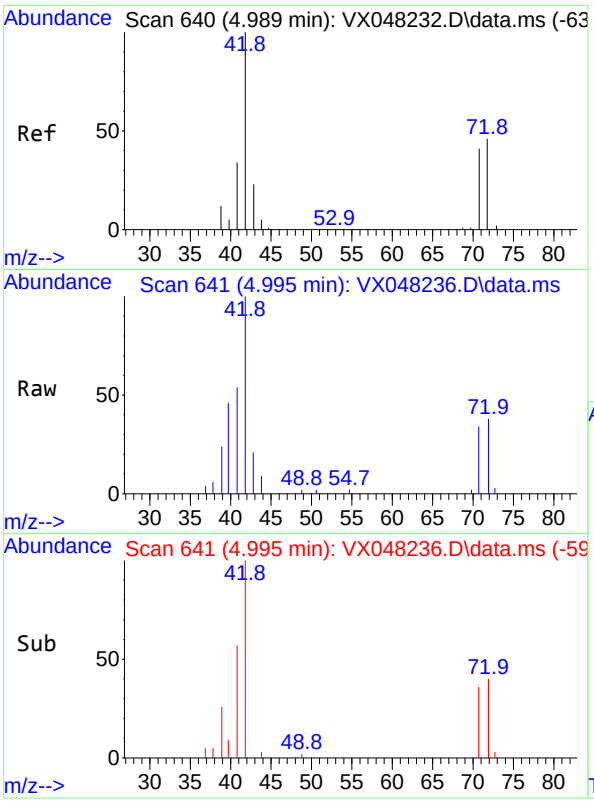


#28
Bromochloromethane
Concen: 5.379 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 49 Resp: 6488

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.4
130	83.5	59.3	88.9



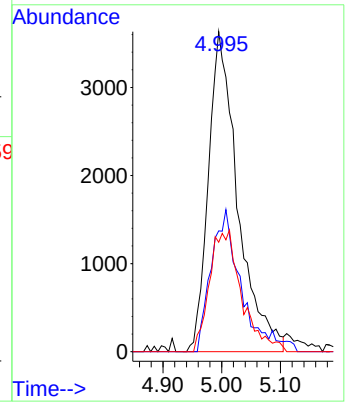


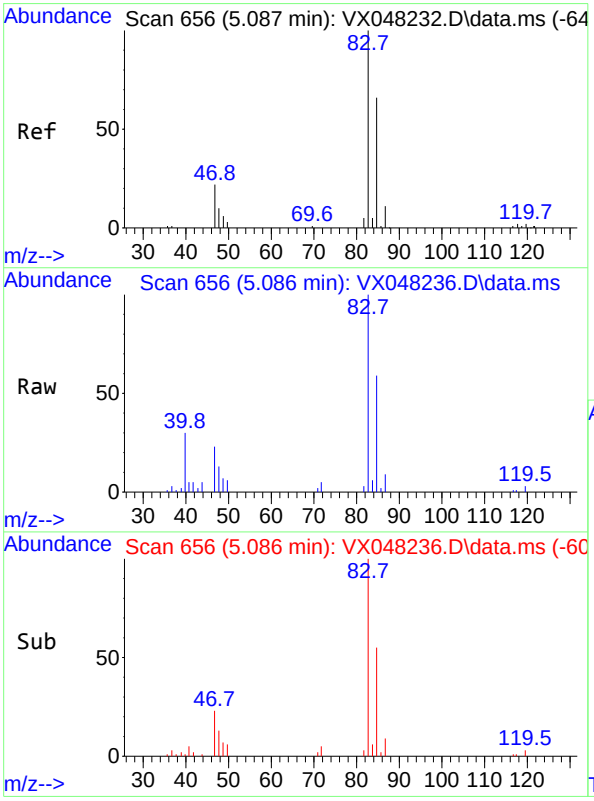
#29
Tetrahydrofuran
Concen: 25.047 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 42 Resp: 12637

Ion	Ratio	Lower	Upper
42	100		
72	45.5	35.3	52.9
71	41.3	32.2	48.4

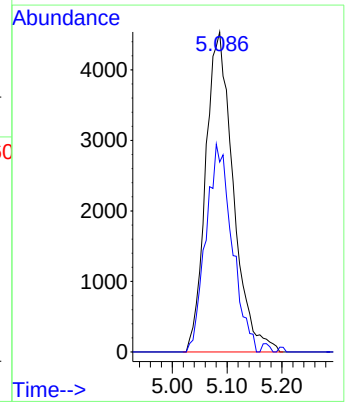


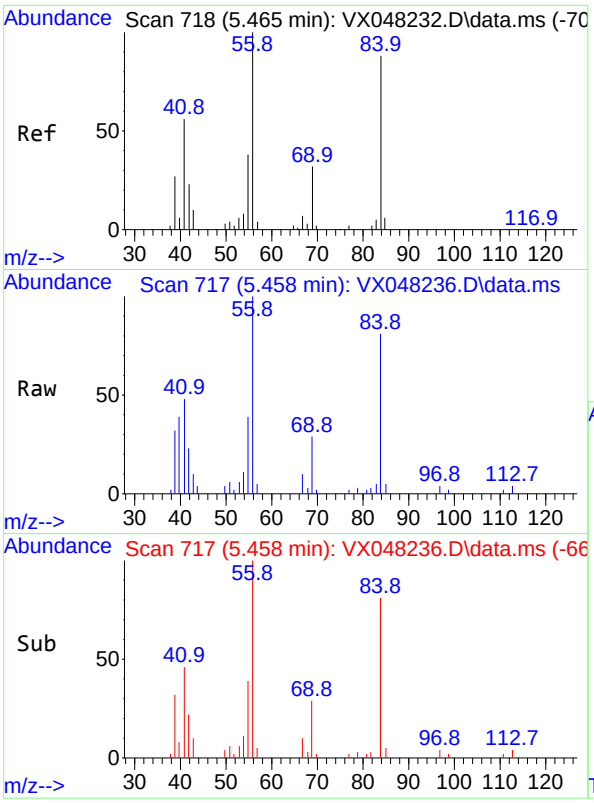


#30
Chloroform
Concen: 5.089 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 83 Resp: 15814

Ion	Ratio	Lower	Upper
83	100		
85	59.4	50.1	75.1



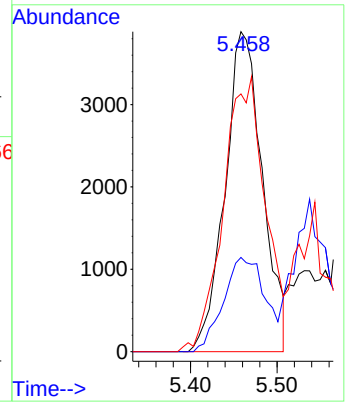


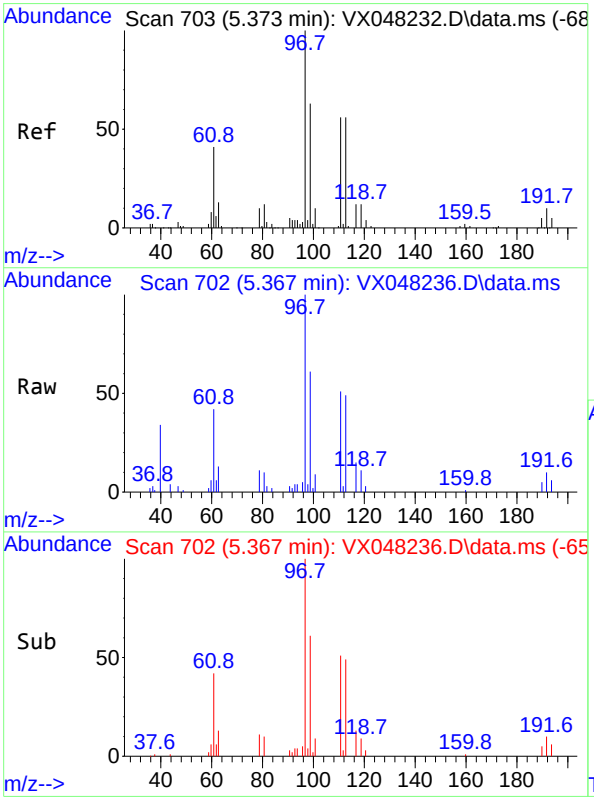
#31
Cyclohexane
Concen: 4.842 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 11661

Ion	Ratio	Lower	Upper
56	100		
69	29.4	23.0	34.6
84	79.1	64.6	97.0

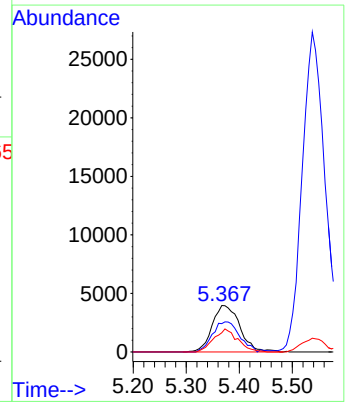


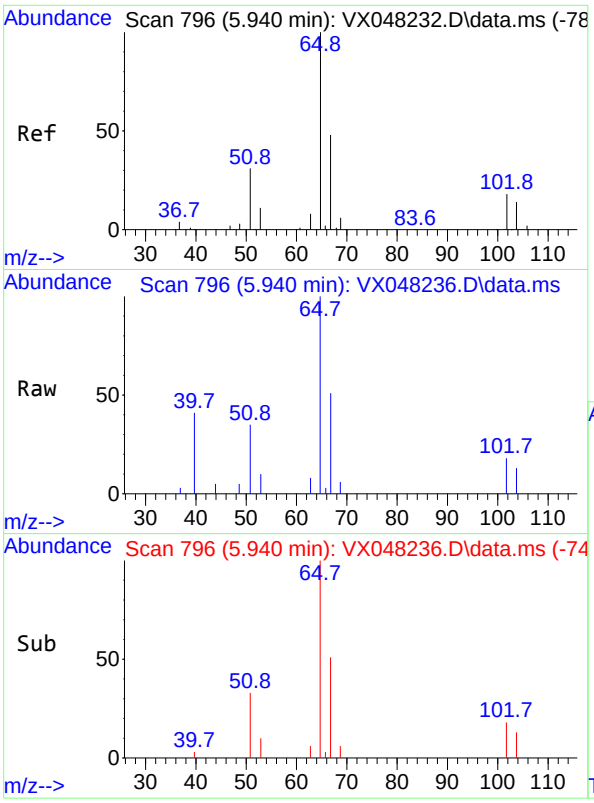


#32
1,1,1-Trichloroethane
Concen: 5.027 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 97 Resp: 14399

Ion	Ratio	Lower	Upper
97	100		
99	63.0	51.7	77.5
61	42.8	34.8	52.2



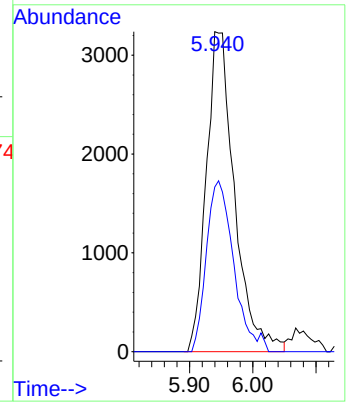


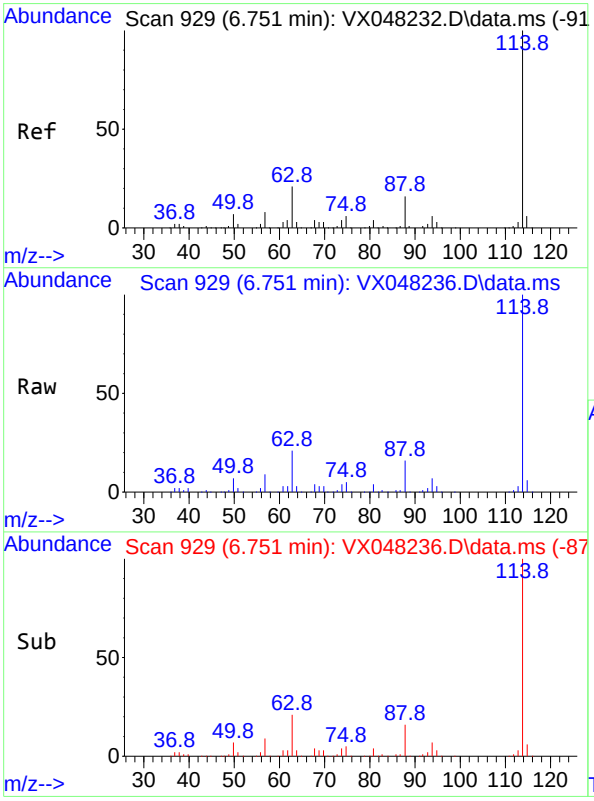
#33
1,2-Dichloroethane-d4
Concen: 5.173 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 65 Resp: 10036

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	105.0

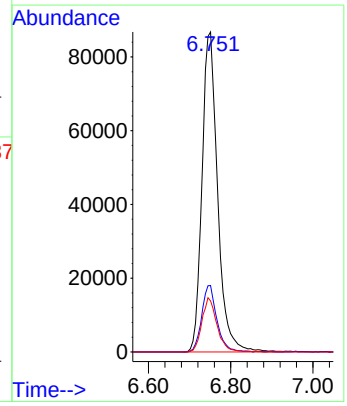


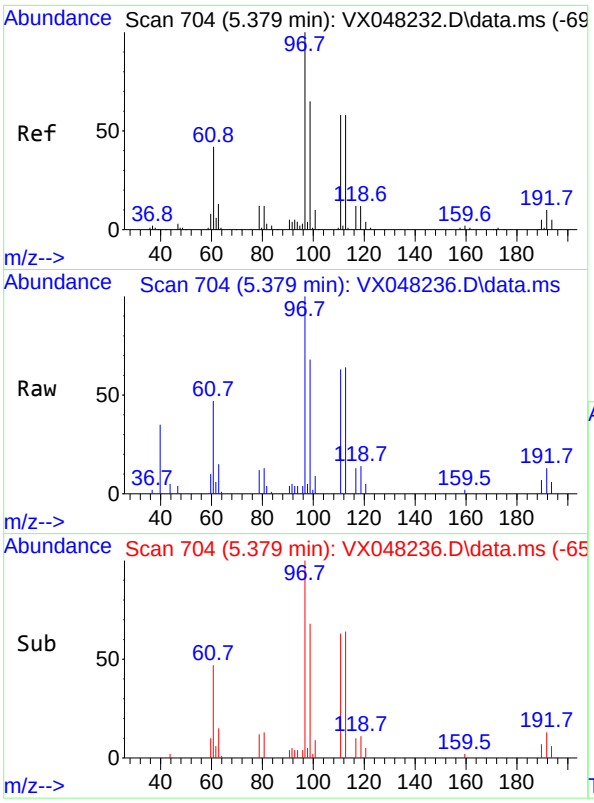


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:114 Resp: 228619

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	43.2
88	15.9	0.0	33.6



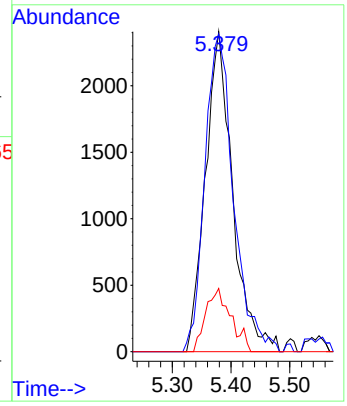


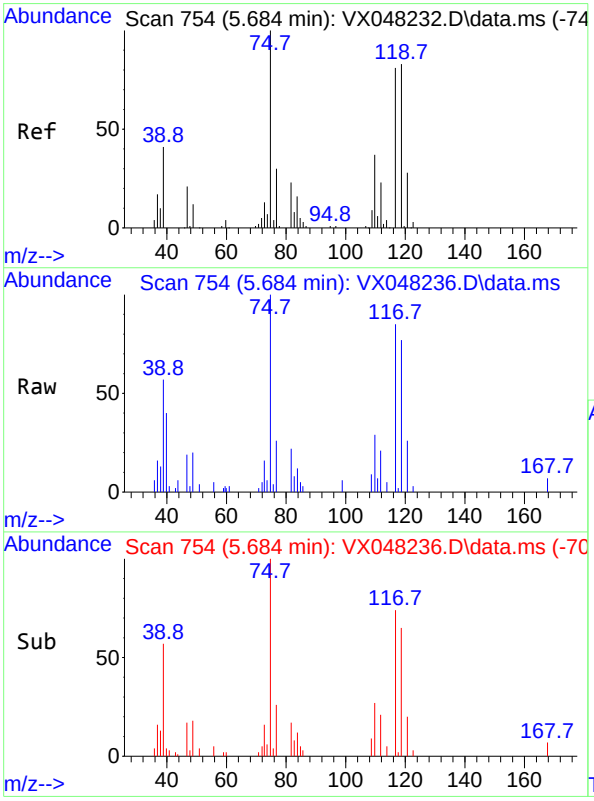
#35
Dibromofluoromethane
Concen: 4.955 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:113 Resp: 7733

Ion	Ratio	Lower	Upper
113	100		
111	104.9	82.2	123.4
192	18.3	15.1	22.7

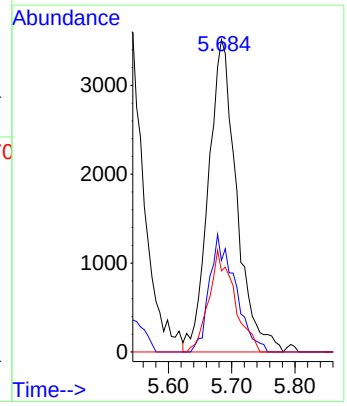


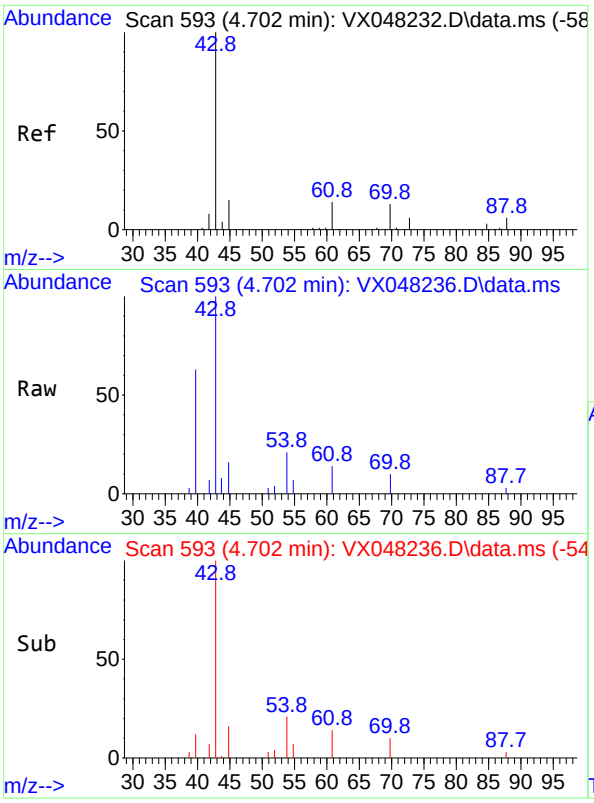


#36
1,1-Dichloropropene
Concen: 4.893 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 75 Resp: 10855

Ion	Ratio	Lower	Upper
75	100		
110	34.8	17.7	53.1
77	29.5	24.3	36.5



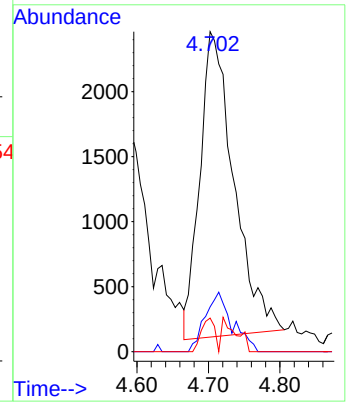


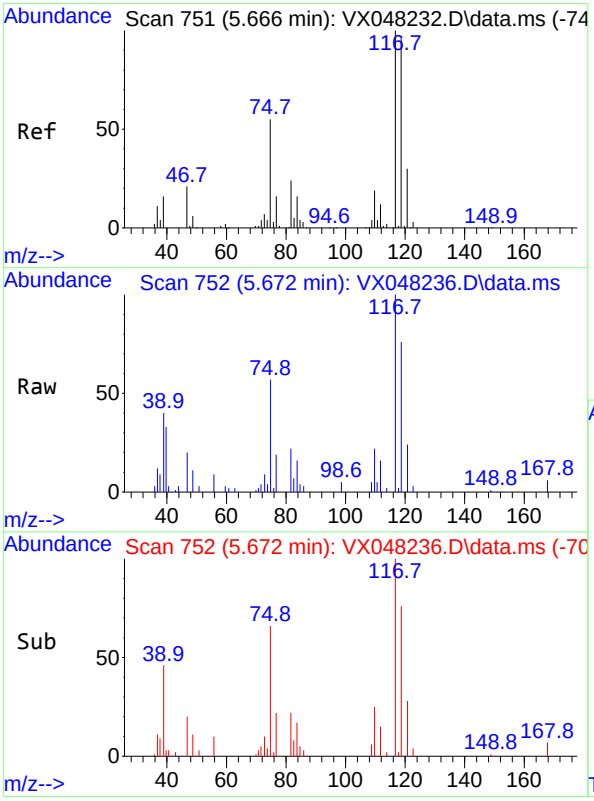
#37
Ethyl Acetate
Concen: 4.220 ug/l
RT: 4.702 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 7759

Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.6	15.8#
70	4.3	7.8	11.6#

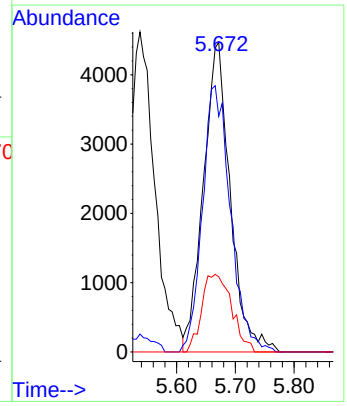


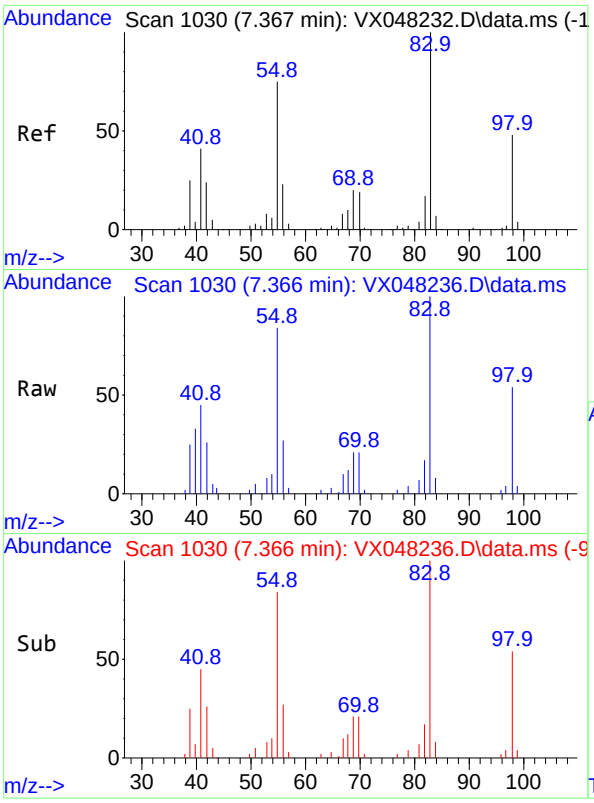


#38
Carbon Tetrachloride
Concen: 5.198 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:117 Resp: 14225

Ion	Ratio	Lower	Upper
117	100		
119	76.0	77.2	115.8#
121	24.3	24.8	37.2#



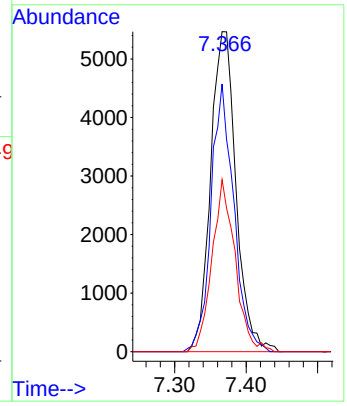


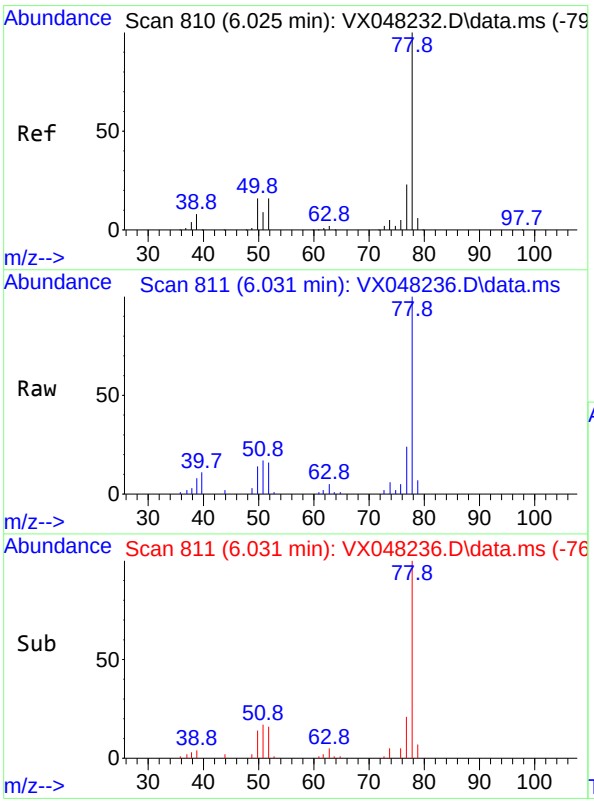
#39
Methylcyclohexane
Concen: 5.149 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 13491

Ion	Ratio	Lower	Upper
83	100		
55	83.6	66.2	99.2
98	53.8	38.9	58.3

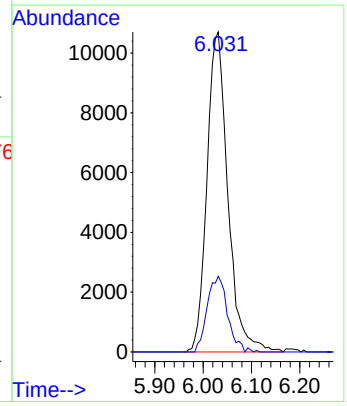


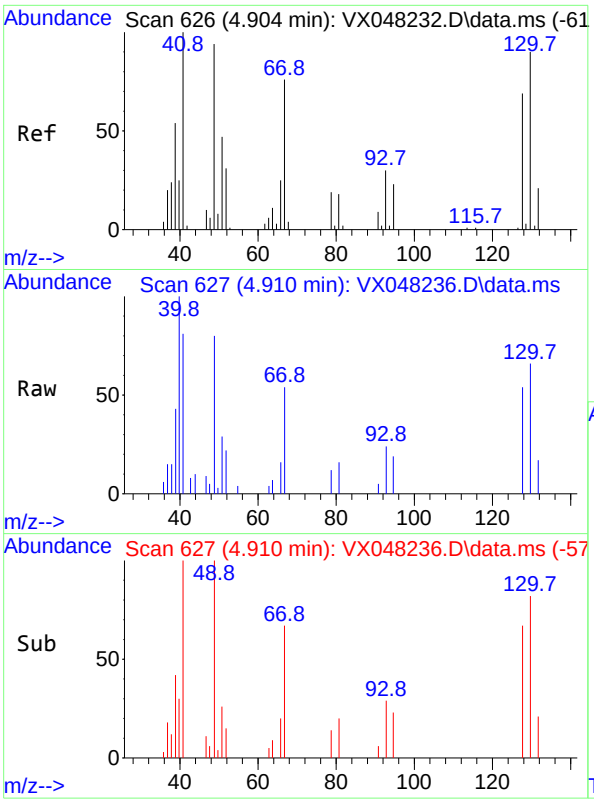


#40
Benzene
Concen: 4.986 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 78 Resp: 32115

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.3	28.9



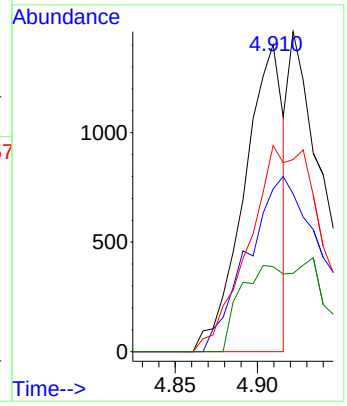


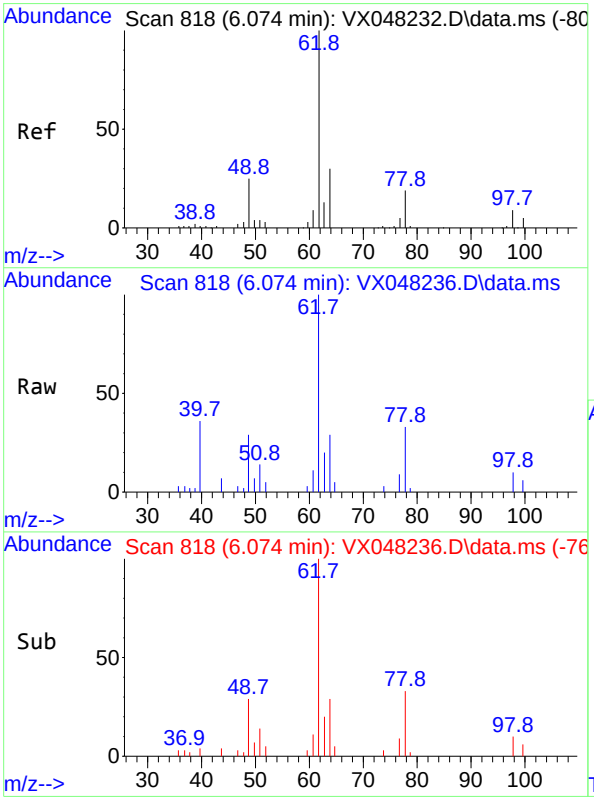
#41
Methacrylonitrile
Concen: 2.423 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 41 Resp: 2340

Ion	Ratio	Lower	Upper
41	100		
39	107.2	44.0	66.0#
67	141.2	58.7	88.1#
52	31.1	25.9	38.9

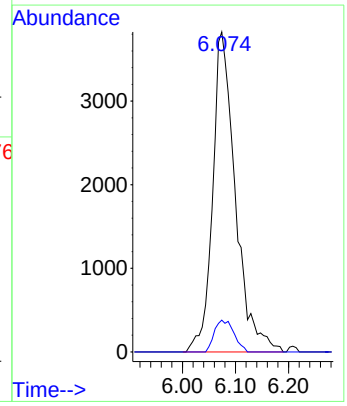


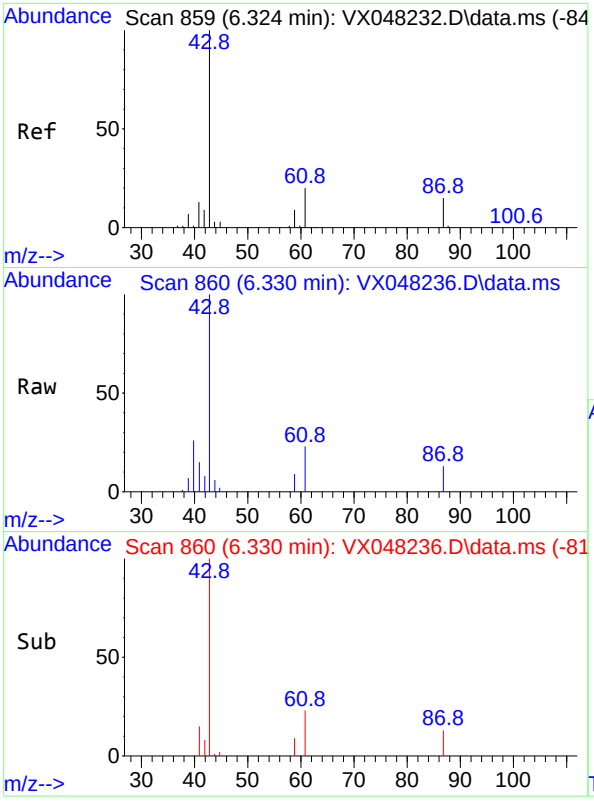


#42
1,2-Dichloroethane
Concen: 4.802 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 62 Resp: 11412

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	17.2



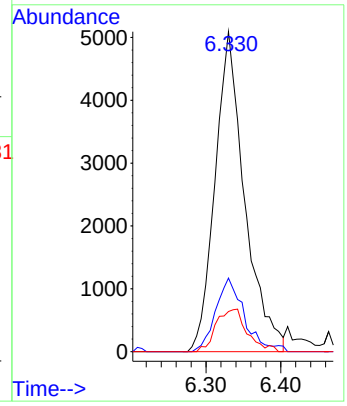


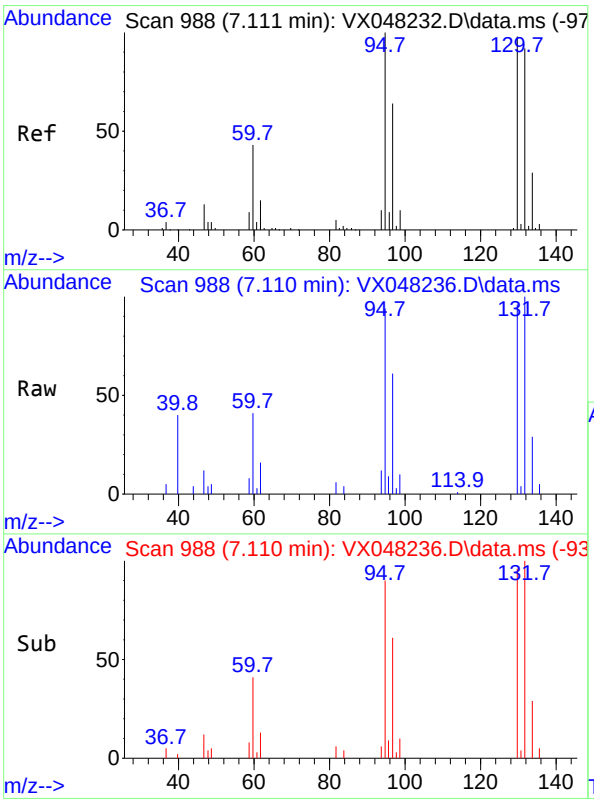
#43
Isopropyl Acetate
Concen: 4.634 ug/l
RT: 6.330 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 13996

Ion	Ratio	Lower	Upper
43	100		
61	22.5	14.9	22.3#
87	14.0	9.4	14.2

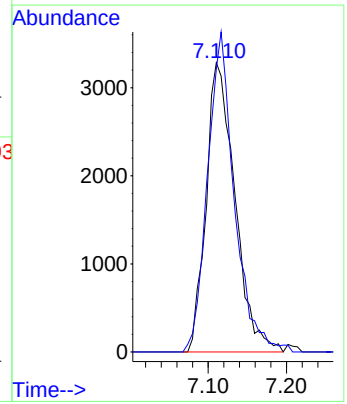


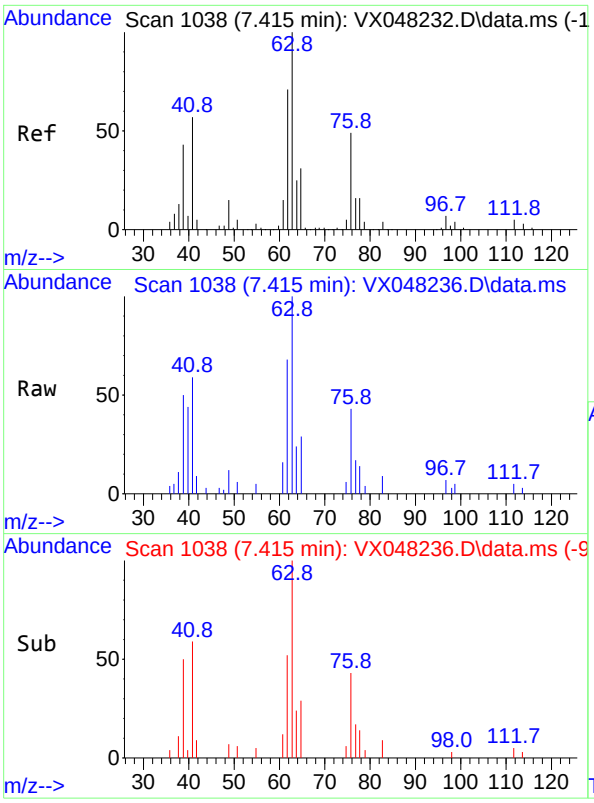


#44
Trichloroethene
Concen: 4.923 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:130 Resp: 8373

Ion	Ratio	Lower	Upper
130	100		
95	107.6	0.0	200.6



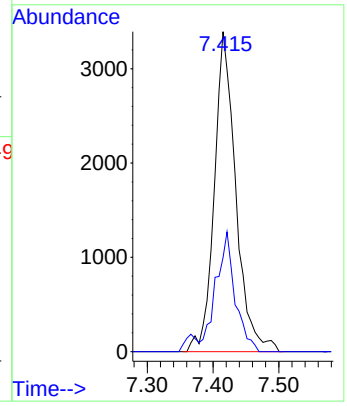


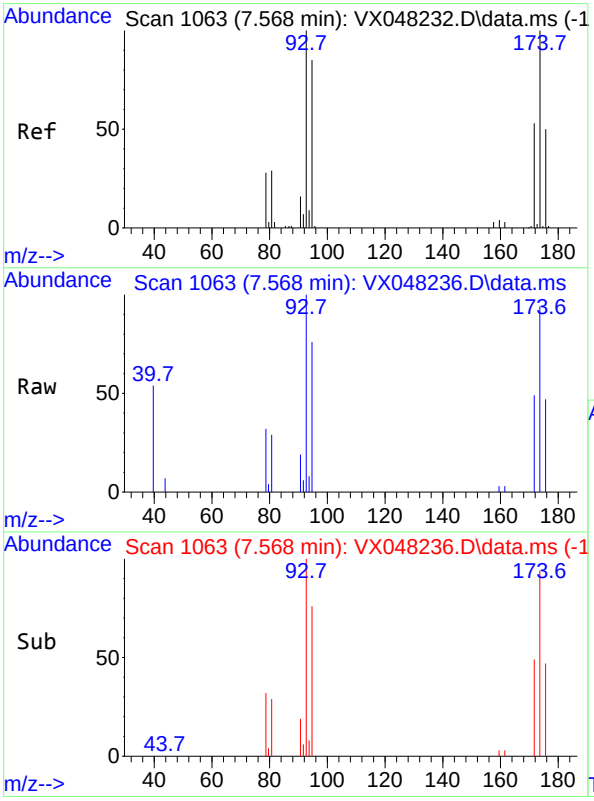
#45
1,2-Dichloropropane
Concen: 5.034 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 63 Resp: 7709

Ion	Ratio	Lower	Upper
63	100		
65	29.4	24.1	36.1

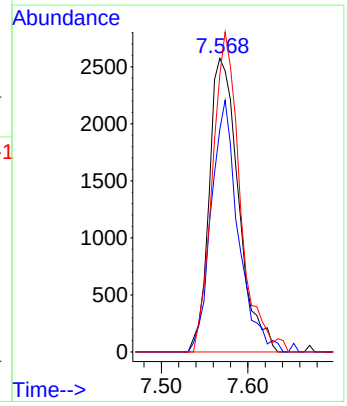


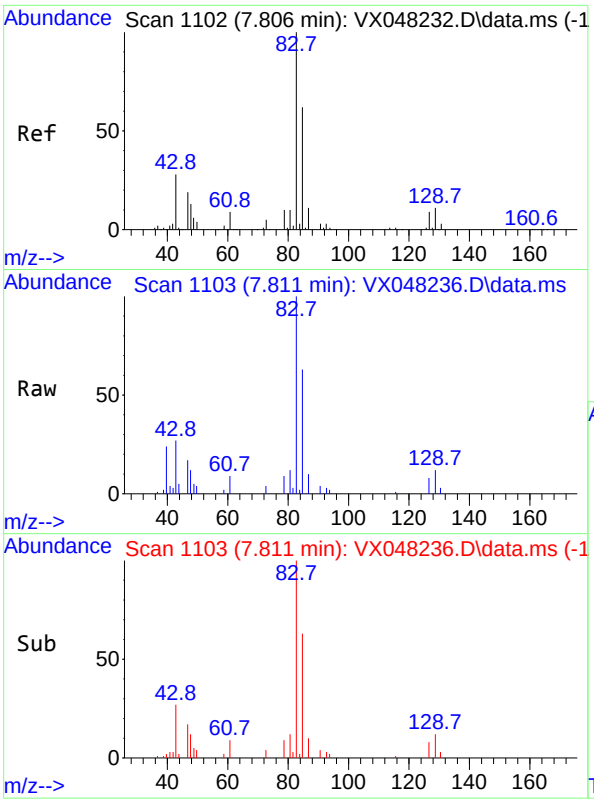


#46
Dibromomethane
Concen: 5.064 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 93 Resp: 6041

Ion	Ratio	Lower	Upper
93	100		
95	79.0	65.9	98.9
174	103.1	71.7	107.5



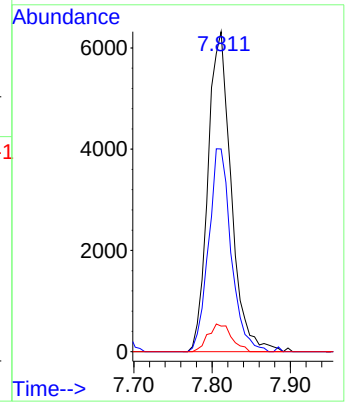


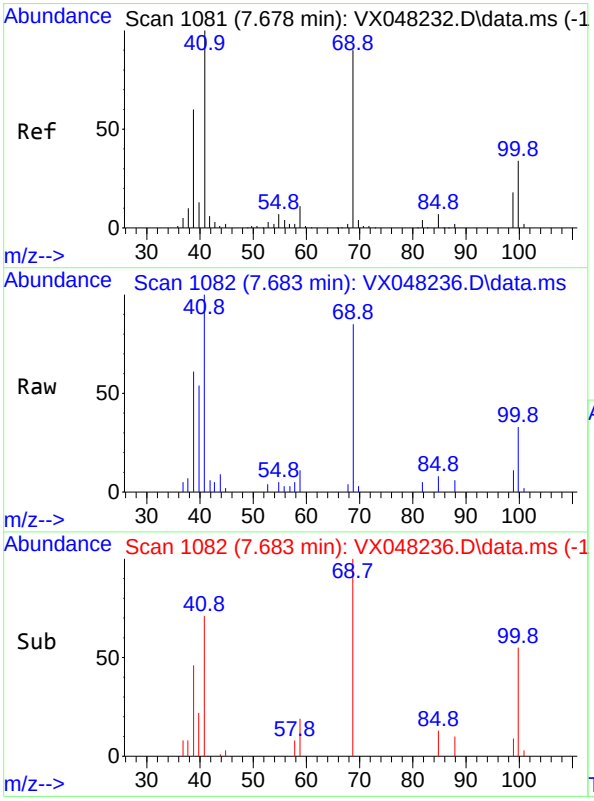
#47
Bromodichloromethane
Concen: 5.037 ug/l
RT: 7.811 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 12974

Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.2	78.4
127	8.0	7.3	10.9

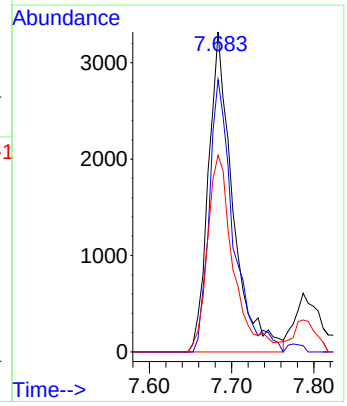


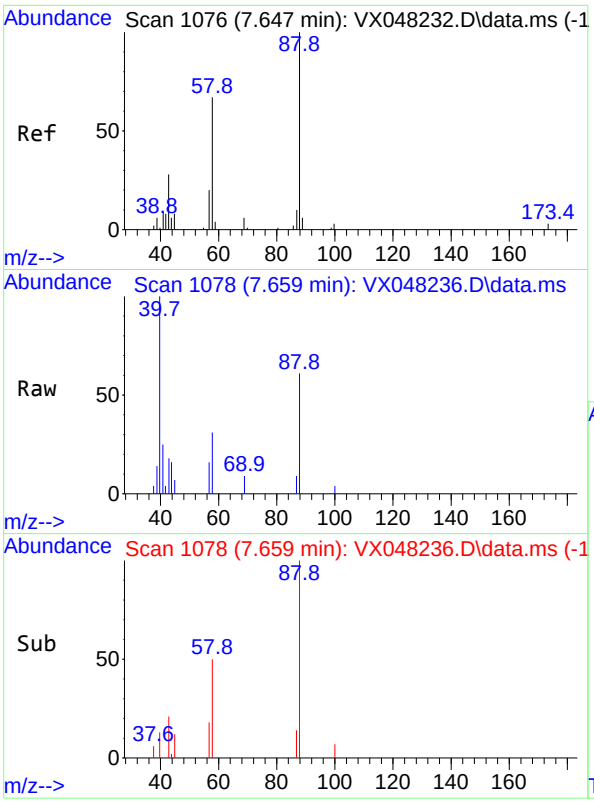


#48
Methyl methacrylate
Concen: 4.503 ug/l
RT: 7.683 min Scan# 1082
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 41 Resp: 6863

Ion	Ratio	Lower	Upper
41	100		
69	83.7	63.4	95.0
39	64.8	47.1	70.7



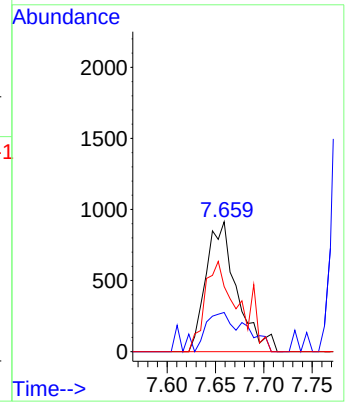


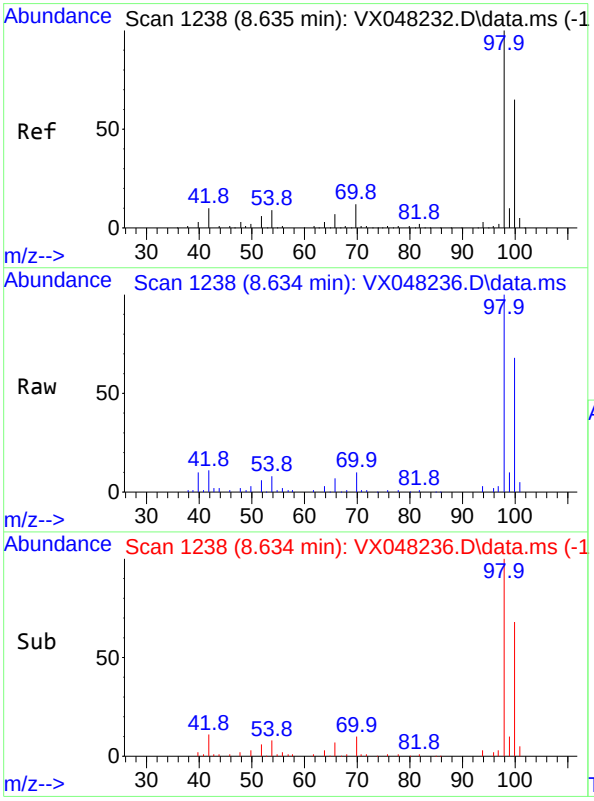
#49
1,4-Dioxane
Concen: 100.322 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.018 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 88 Resp: 2020

Ion	Ratio	Lower	Upper
88	100		
43	38.4	35.0	52.4
58	76.8	61.9	92.9

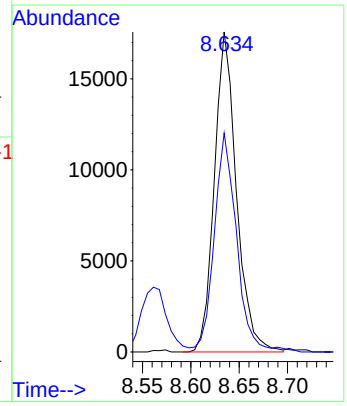


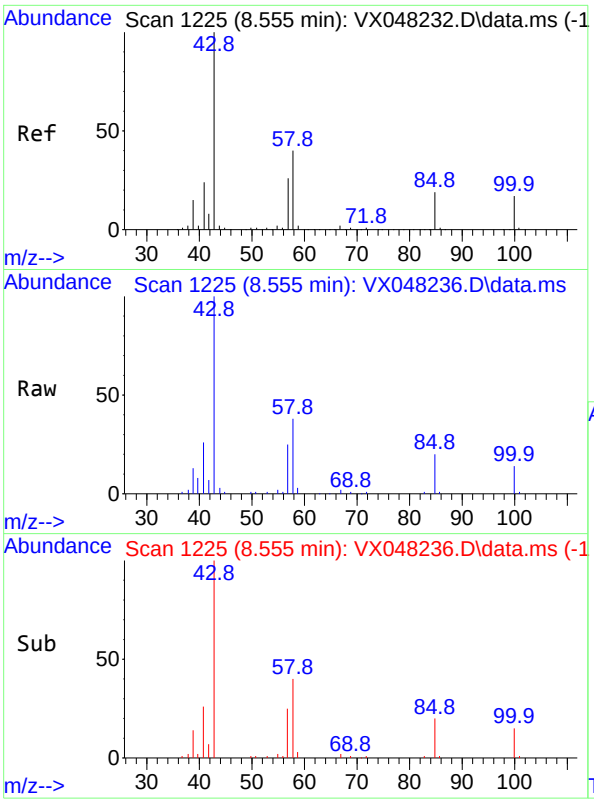


#50
Toluene-d8
Concen: 5.102 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 98 Resp: 27914

Ion	Ratio	Lower	Upper
98	100		
100	69.2	53.0	79.4



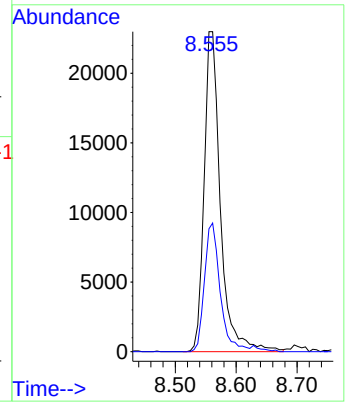


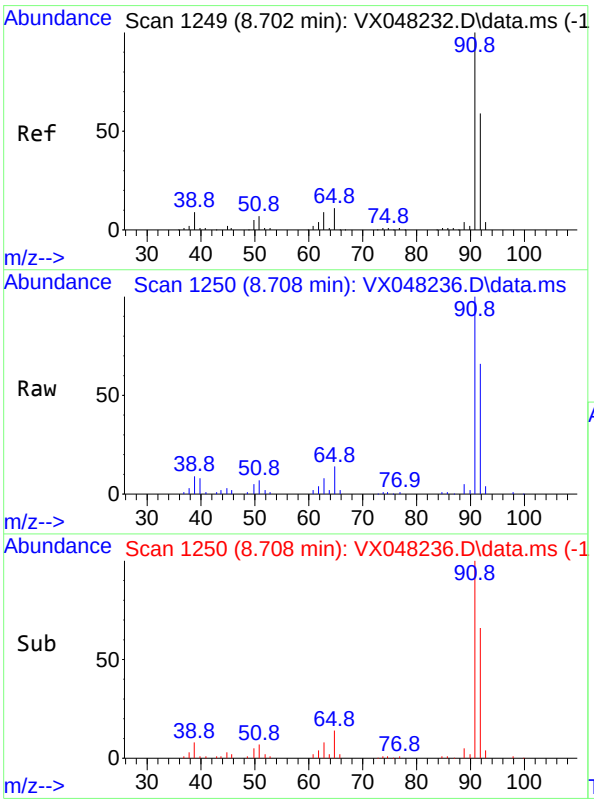
#51
4-Methyl-2-Pentanone
Concen: 24.534 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 42725

Ion	Ratio	Lower	Upper
43	100		
58	38.7	29.5	44.3

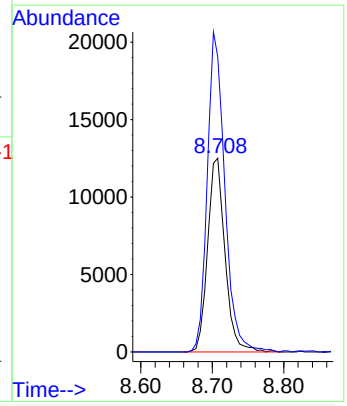


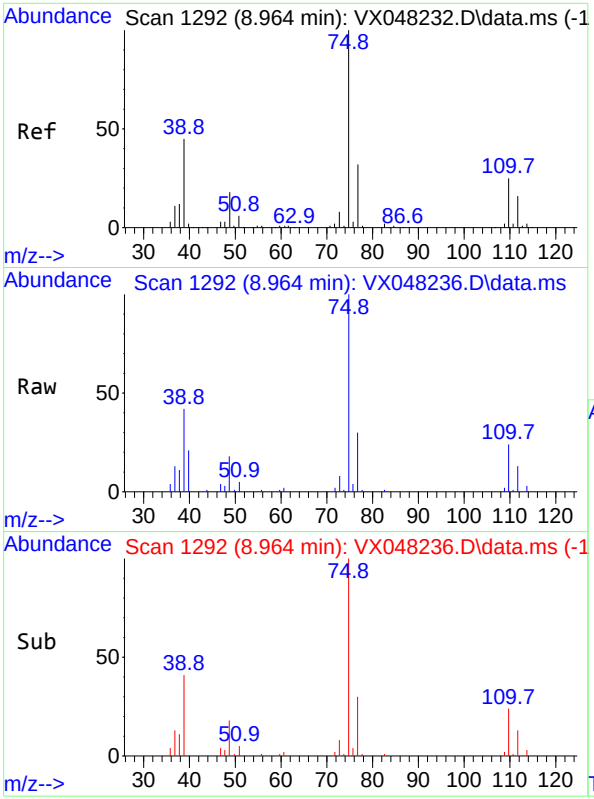


#52
Toluene
Concen: 5.166 ug/l
RT: 8.708 min Scan# 1250
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 92 Resp: 21137

Ion	Ratio	Lower	Upper
92	100		
91	166.2	136.1	204.1



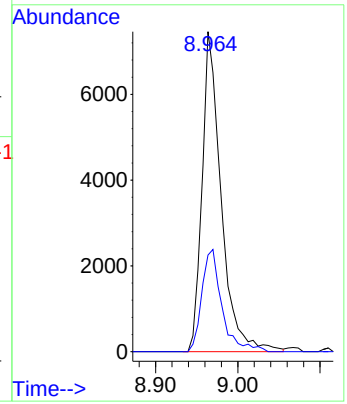


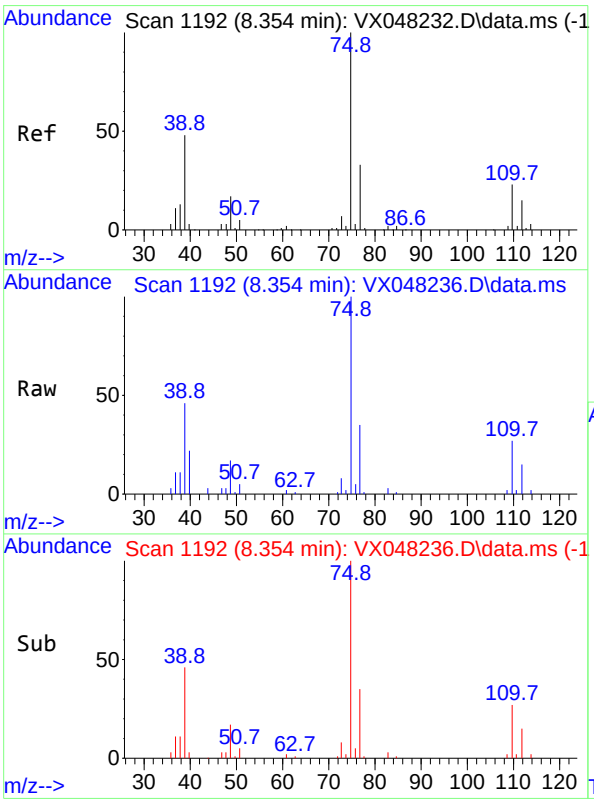
#53
t-1,3-Dichloropropene
Concen: 4.840 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 12015

Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.0	37.6

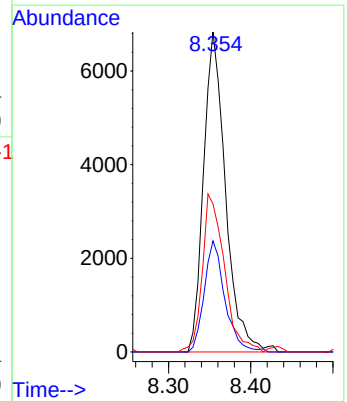


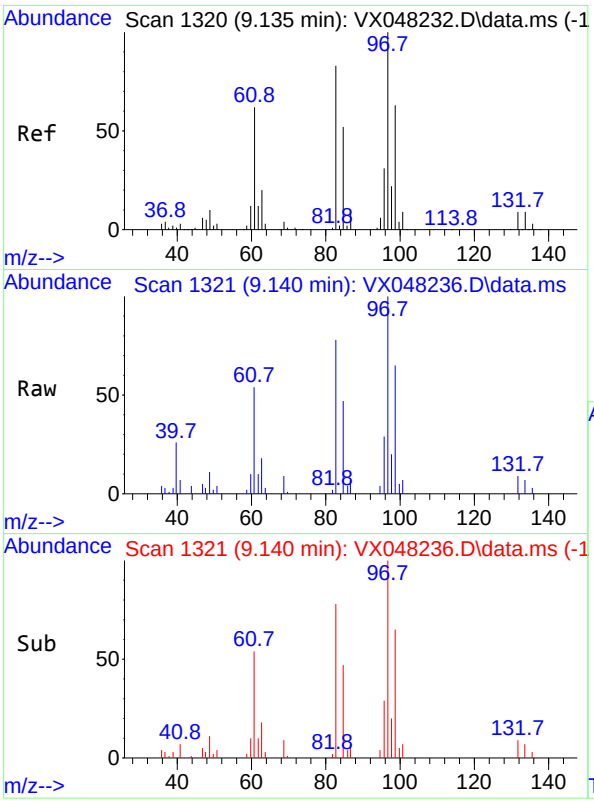


#54
cis-1,3-Dichloropropene
Concen: 4.743 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 75 Resp: 12702

Ion	Ratio	Lower	Upper
75	100		
77	35.7	24.9	37.3
39	45.3	42.6	64.0



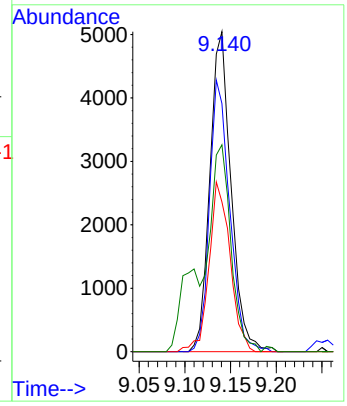


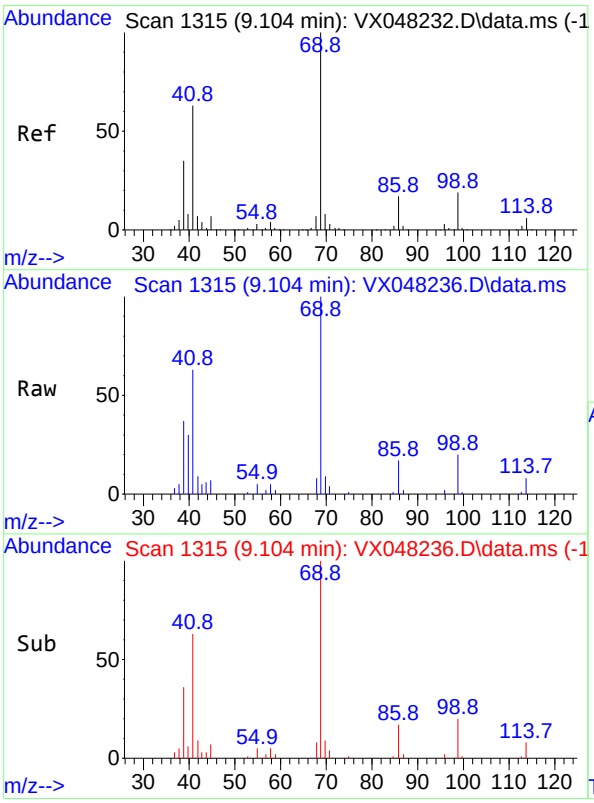
#55
1,1,2-Trichloroethane
Concen: 5.332 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 97 Resp: 8113

Ion	Ratio	Lower	Upper
97	100		
83	77.5	70.6	105.8
85	46.8	45.0	67.6
99	64.7	50.9	76.3

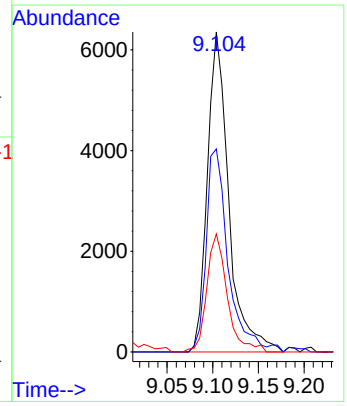


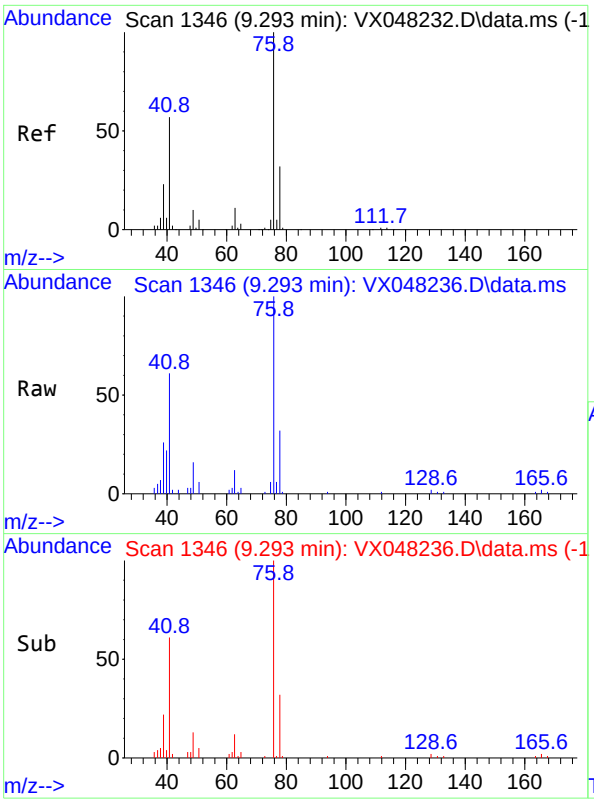


#56
Ethyl methacrylate
Concen: 4.637 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 69 Resp: 10320

Ion	Ratio	Lower	Upper
69	100		
41	65.3	56.0	84.0
39	35.3	31.6	47.4



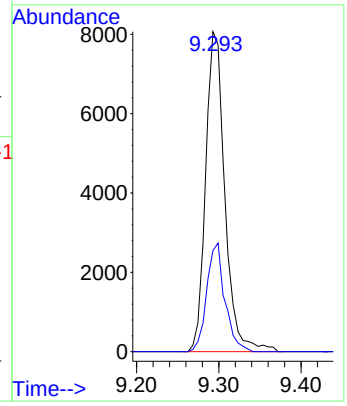


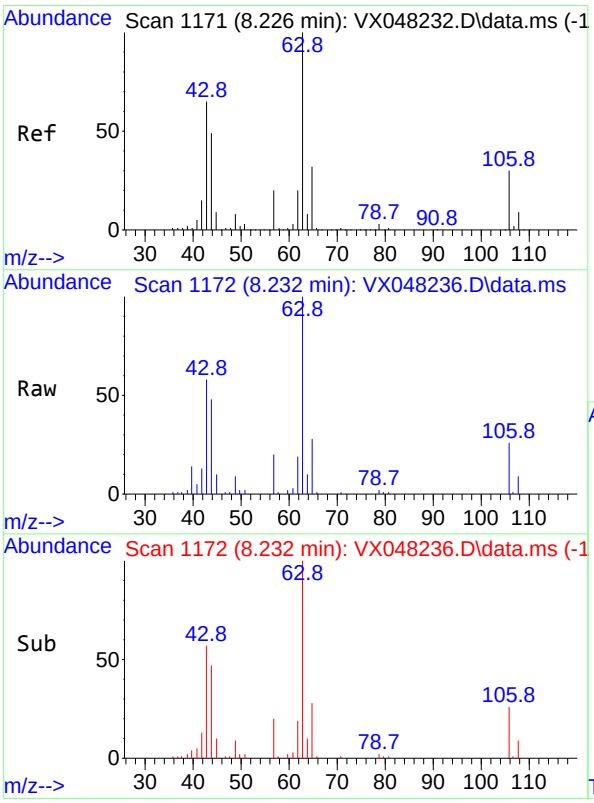
#57
1,3-Dichloropropane
Concen: 5.035 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 13087

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.4	38.0

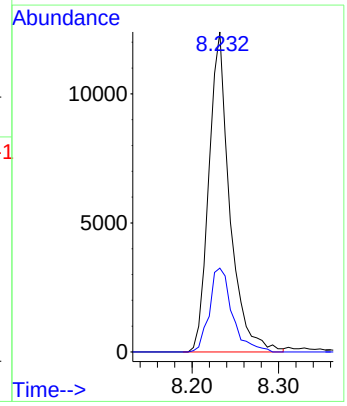


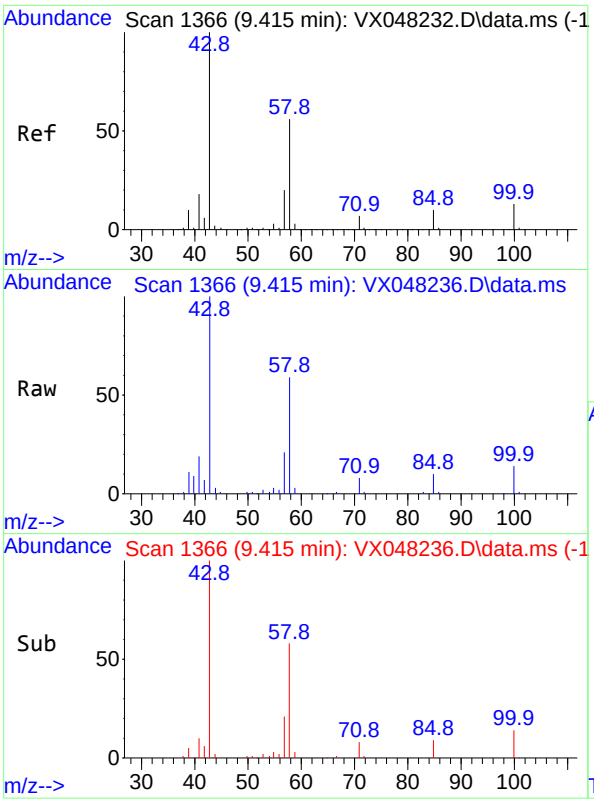


#58
2-Chloroethyl Vinyl ether
Concen: 18.931 ug/l
RT: 8.232 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 63 Resp: 20764

Ion	Ratio	Lower	Upper
63	100		
106	28.6	22.2	33.2



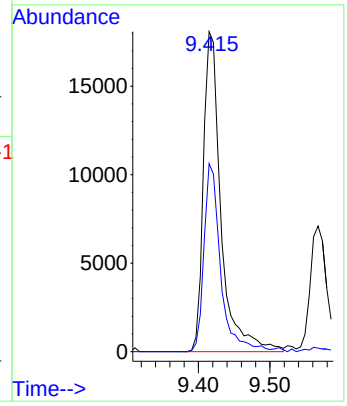


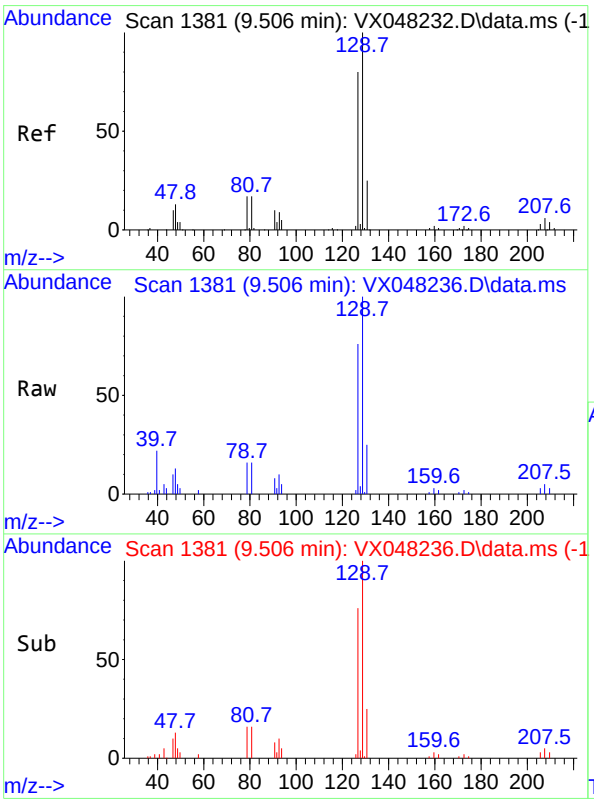
#59
2-Hexanone
Concen: 25.488 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 30949

Ion	Ratio	Lower	Upper
43	100		
58	55.4	26.3	78.8

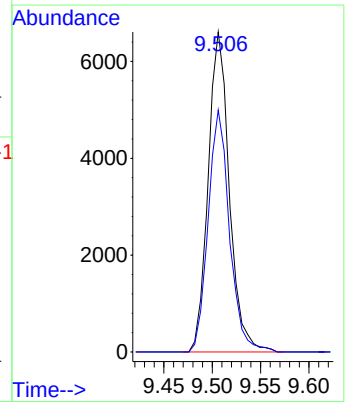


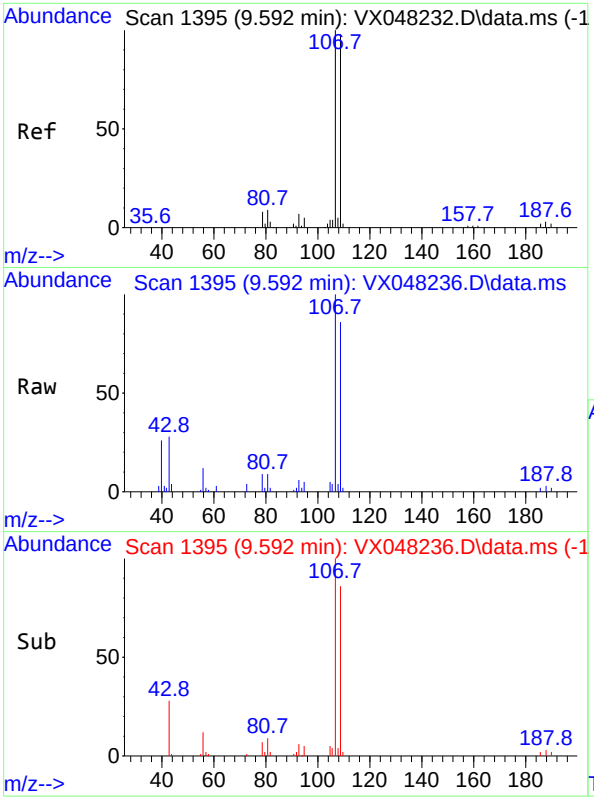


#60
Dibromochloromethane
Concen: 4.930 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:129 Resp: 10082

Ion	Ratio	Lower	Upper
129	100		
127	76.3	38.6	115.7



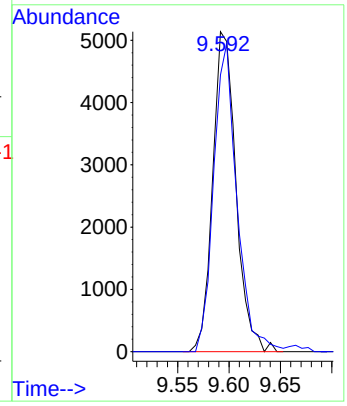


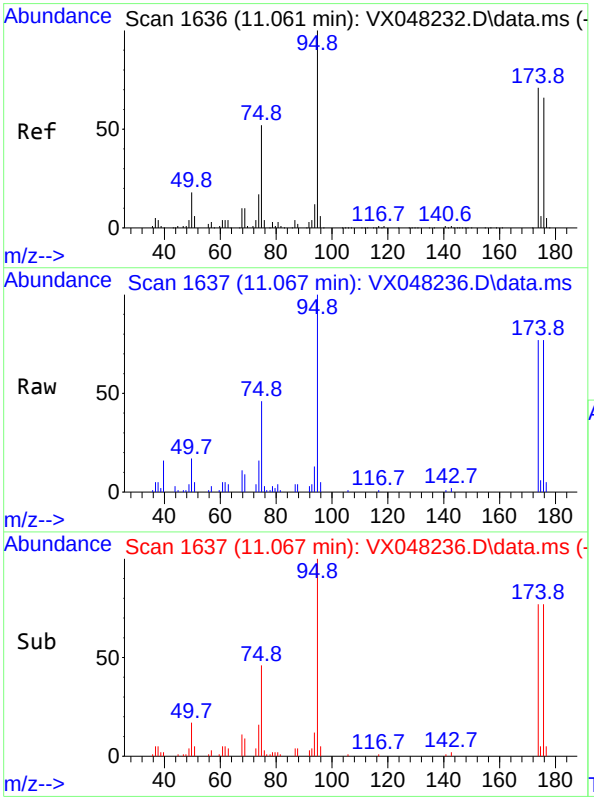
#61
1,2-Dibromoethane
Concen: 4.980 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 8079

Ion	Ratio	Lower	Upper
107	100		
109	96.3	77.0	115.4

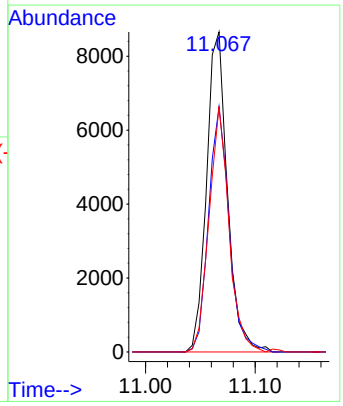


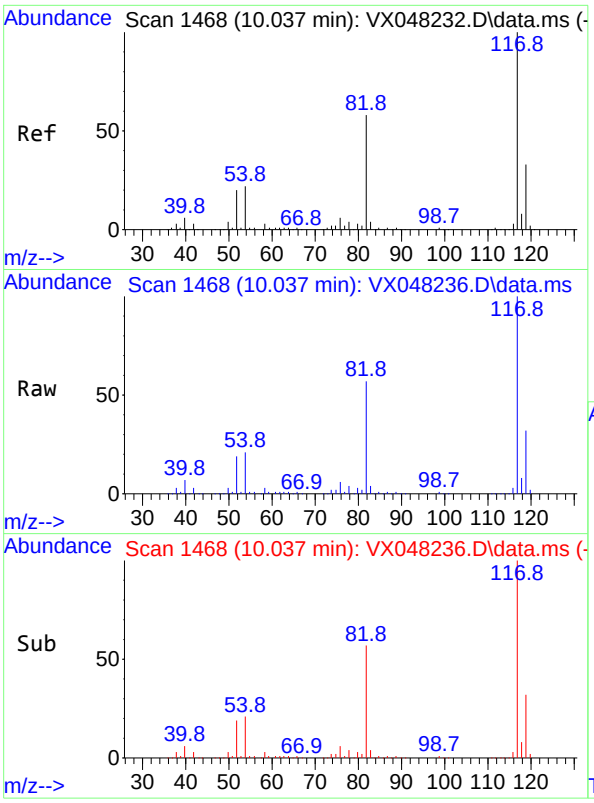


#62
4-Bromofluorobenzene
Concen: 5.492 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 95 Resp: 11429

Ion	Ratio	Lower	Upper
95	100		
174	75.7	0.0	147.8
176	73.4	0.0	142.8



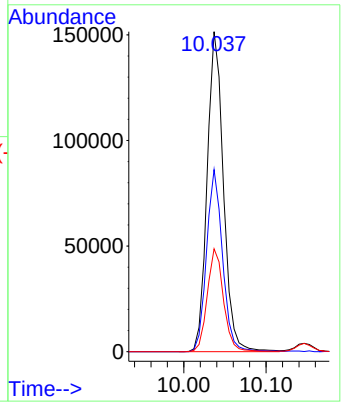


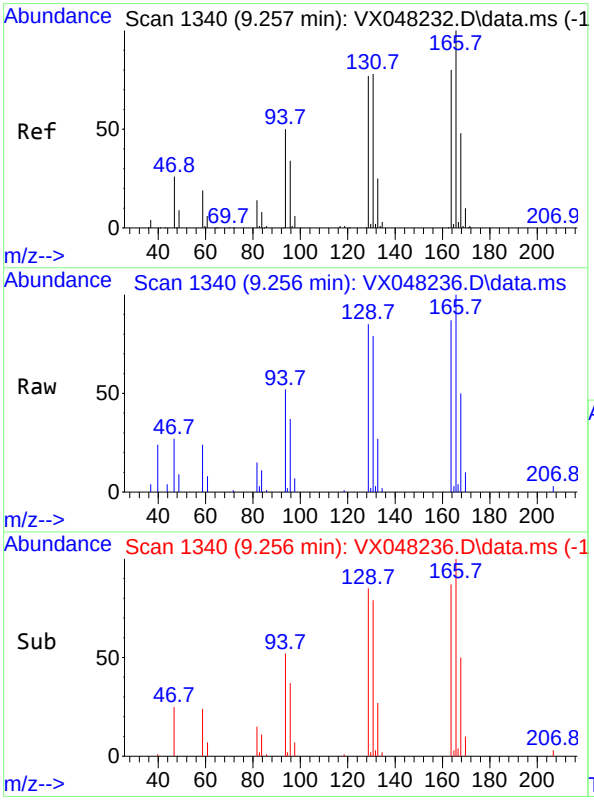
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:117 Resp: 208481

Ion	Ratio	Lower	Upper
117	100		
82	56.9	46.5	69.7
119	32.2	25.9	38.9

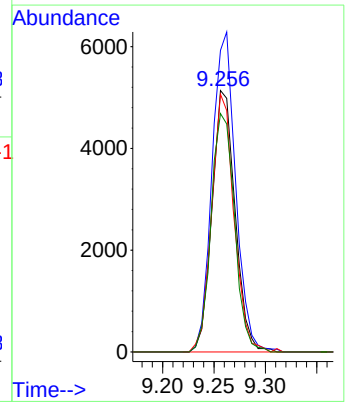


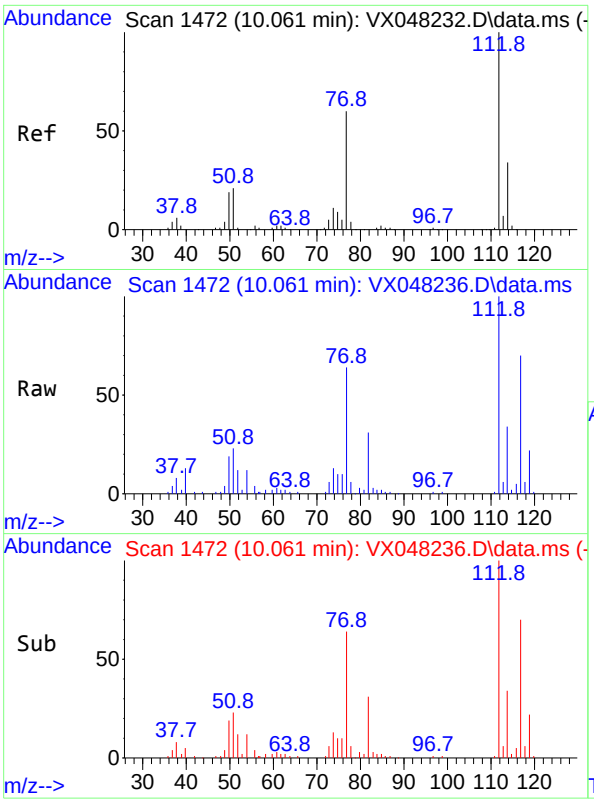


#64
Tetrachloroethene
Concen: 5.153 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:164 Resp: 8020

Ion	Ratio	Lower	Upper
164	100		
166	115.3	104.5	156.7
129	98.6	81.8	122.6
131	91.2	77.0	115.6



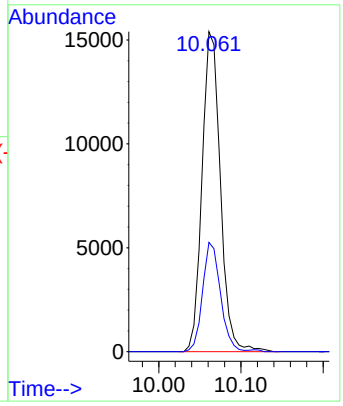


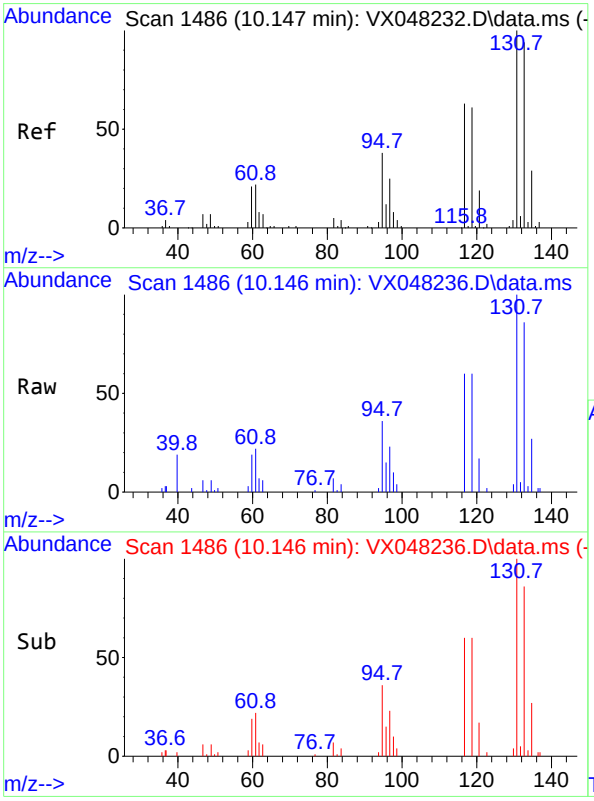
#65
Chlorobenzene
Concen: 5.090 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 23873

Ion	Ratio	Lower	Upper
112	100		
114	34.2	26.2	39.2

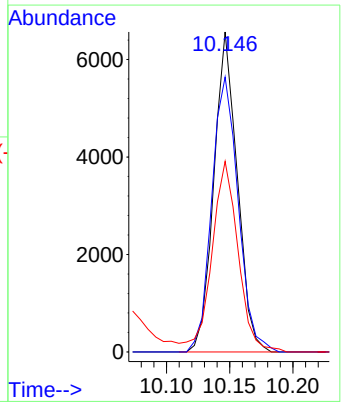


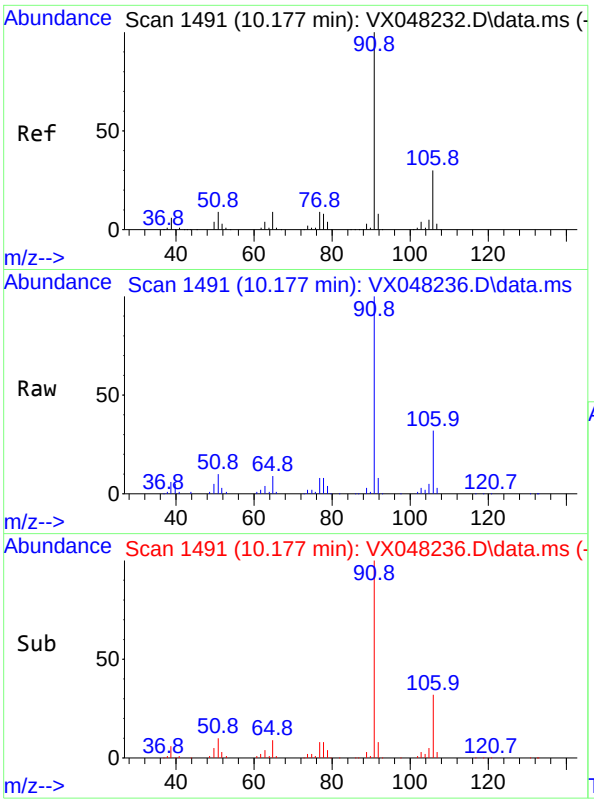


#66
1,1,1,2-Tetrachloroethane
Concen: 4.905 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:131 Resp: 8450

Ion	Ratio	Lower	Upper
131	100		
133	97.1	47.6	142.8
119	66.7	32.5	97.5



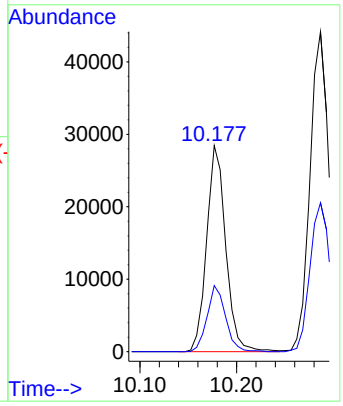


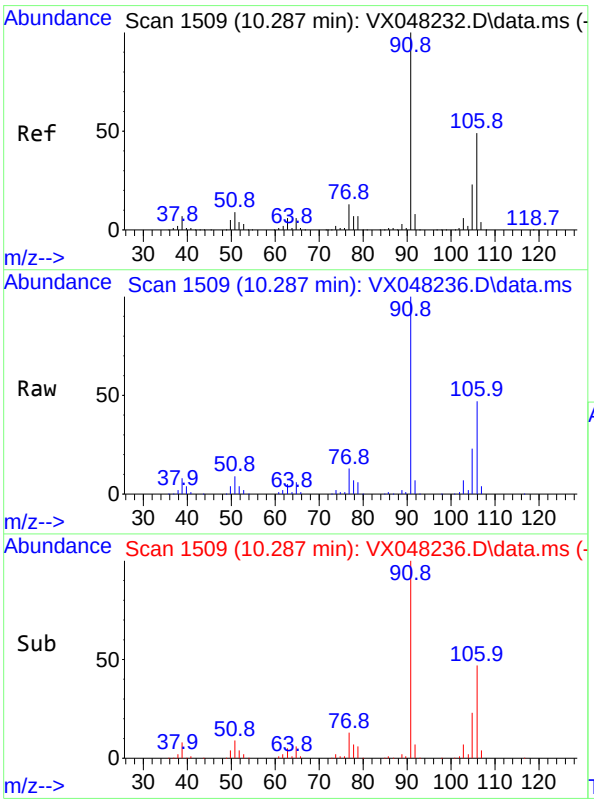
#67
Ethyl Benzene
Concen: 4.899 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 39121

Ion	Ratio	Lower	Upper
91	100		
106	32.1	23.8	35.6

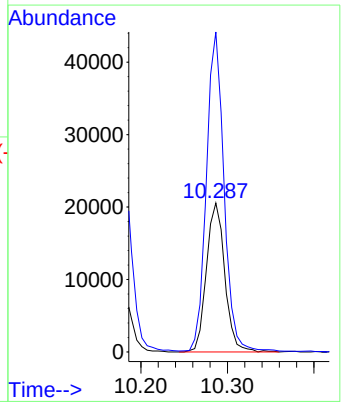


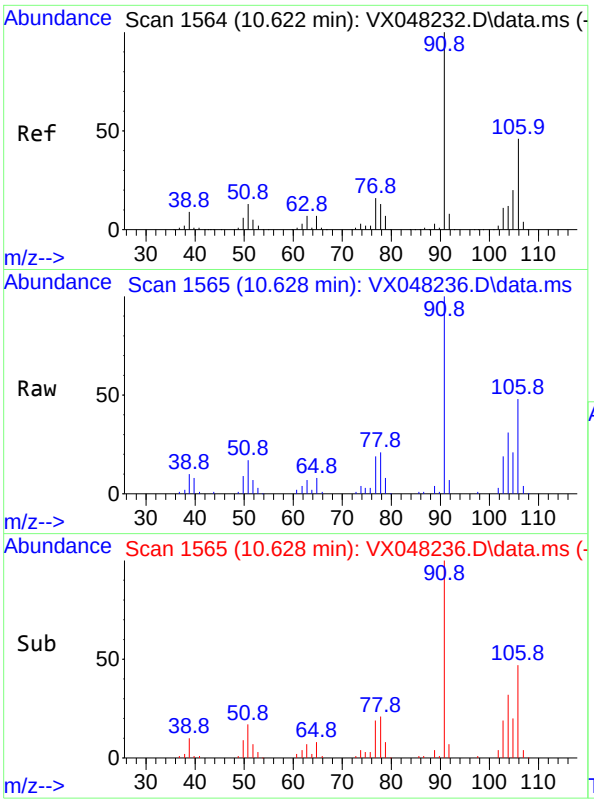


#68
m/p-Xylenes
Concen: 10.217 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:106 Resp: 30310

Ion	Ratio	Lower	Upper
106	100		
91	205.7	167.9	251.9



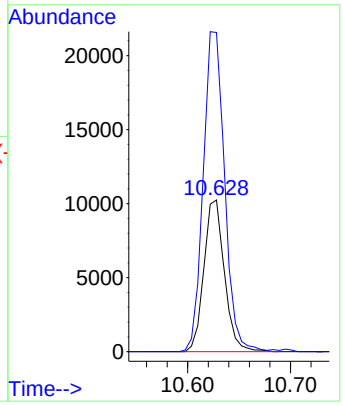


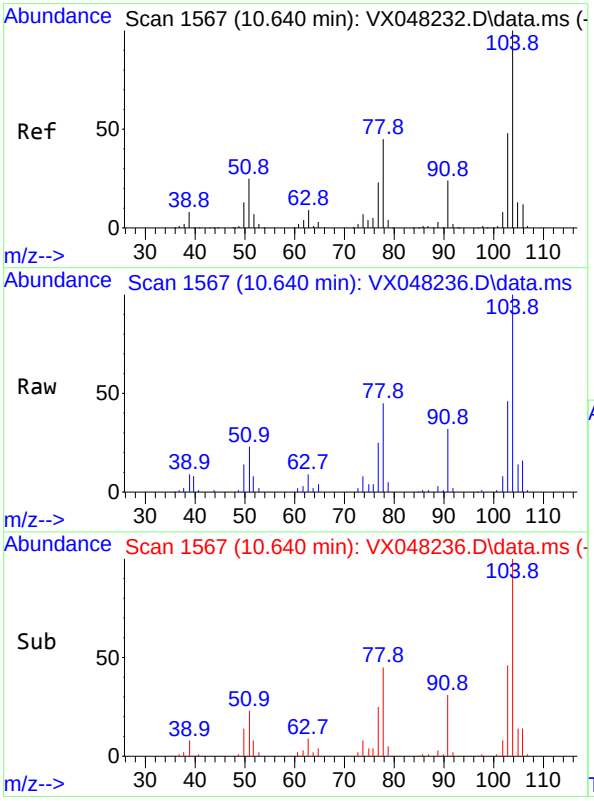
#69
o-Xylene
Concen: 4.979 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 14262

Ion	Ratio	Lower	Upper
106	100		
91	219.6	111.3	333.9

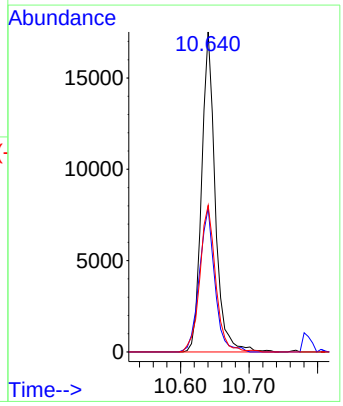


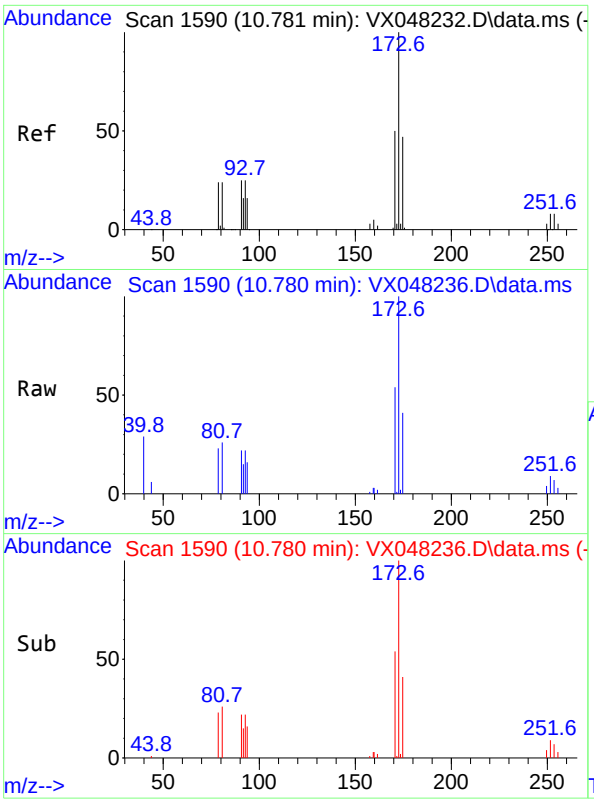


#70
Styrene
Concen: 4.980 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:104 Resp: 24289

Ion	Ratio	Lower	Upper
104	100		
78	51.1	42.2	63.4
103	53.2	43.0	64.4



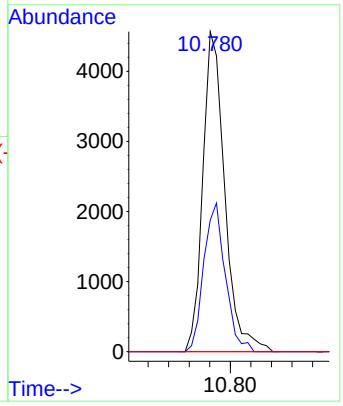


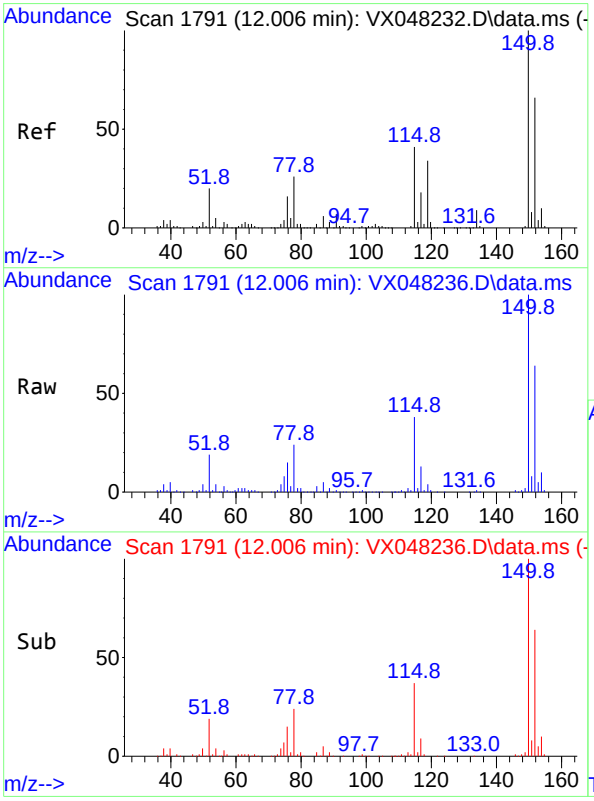
#71
Bromoform
Concen: 4.915 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:173 Resp: 6766

Ion	Ratio	Lower	Upper
173	100		
175	45.6	24.0	72.0
254	0.0	0.0	0.0

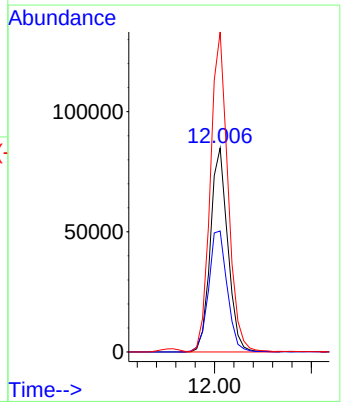


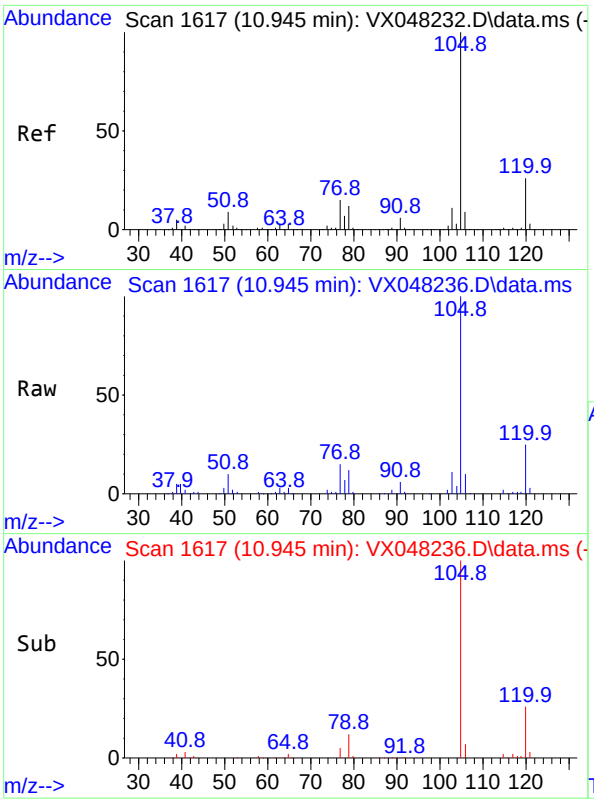


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:152 Resp: 105998

Ion	Ratio	Lower	Upper
152	100		
115	63.9	43.1	129.4
150	157.2	0.0	353.0



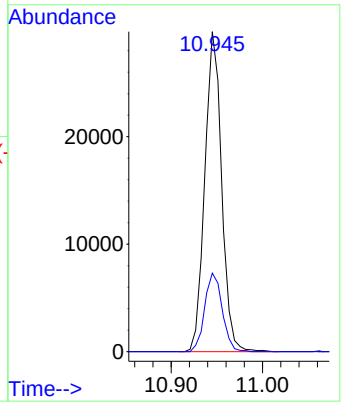


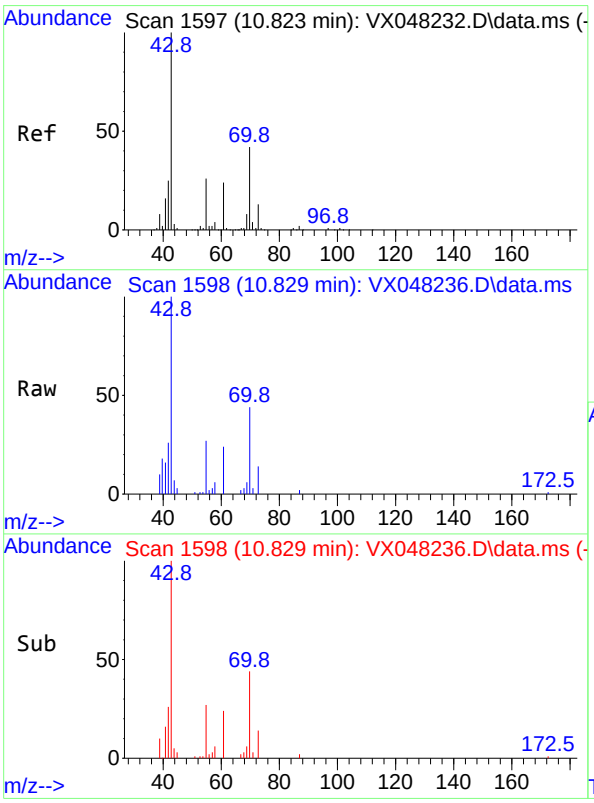
#73
Isopropylbenzene
Concen: 4.900 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 37935

Ion	Ratio	Lower	Upper
105	100		
120	25.6	13.0	38.9

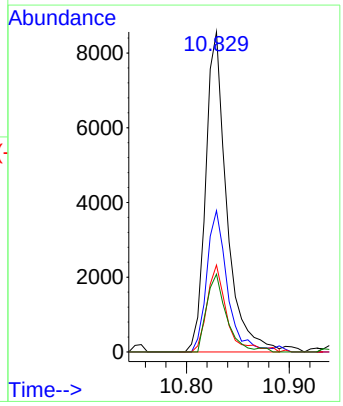


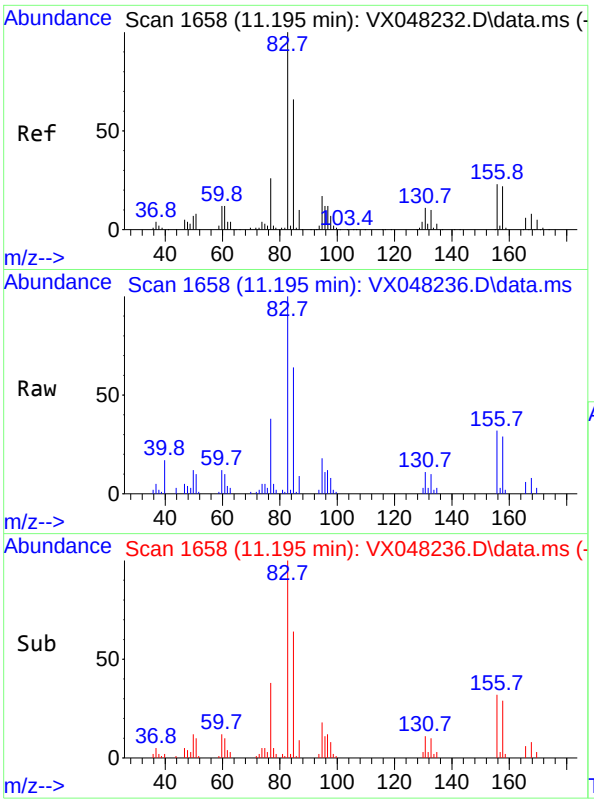


#74
N-amyl acetate
Concen: 4.438 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 43 Resp: 12188

Ion	Ratio	Lower	Upper
43	100		
70	43.3	32.2	48.2
55	25.7	19.1	28.7
61	23.1	18.6	28.0



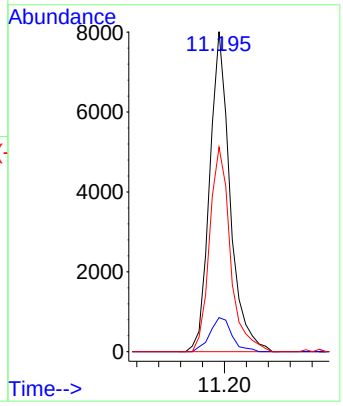


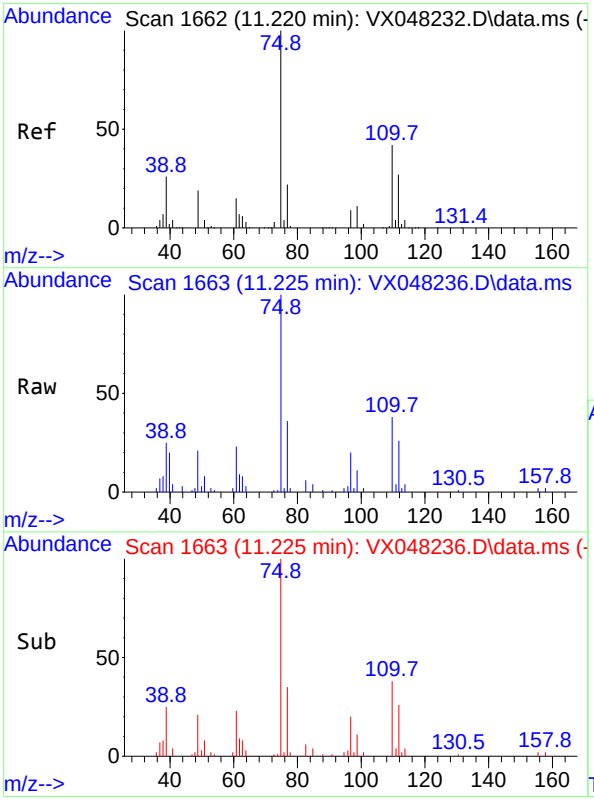
#75
1,1,2,2-Tetrachloroethane
Concen: 4.883 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 10324

Ion	Ratio	Lower	Upper
83	100		
131	11.5	4.8	14.4
85	65.0	31.9	95.7

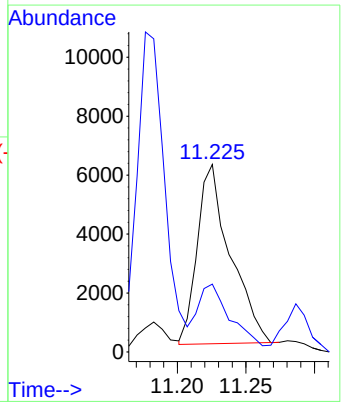


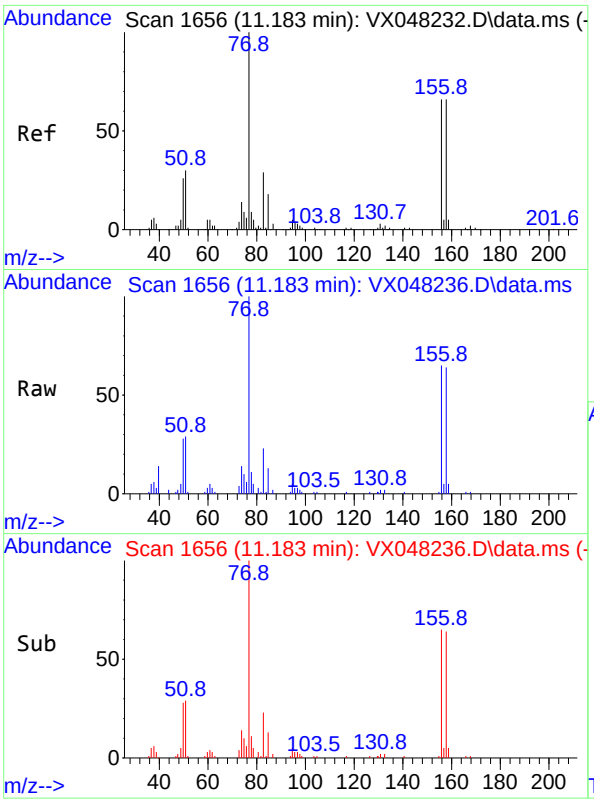


#76
1,2,3-Trichloropropane
Concen: 5.944 ug/l
RT: 11.225 min Scan# 1663
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 75 Resp: 10217

Ion	Ratio	Lower	Upper
75	100		
77	39.2	22.4	67.2



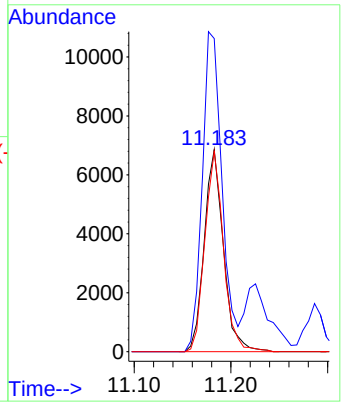


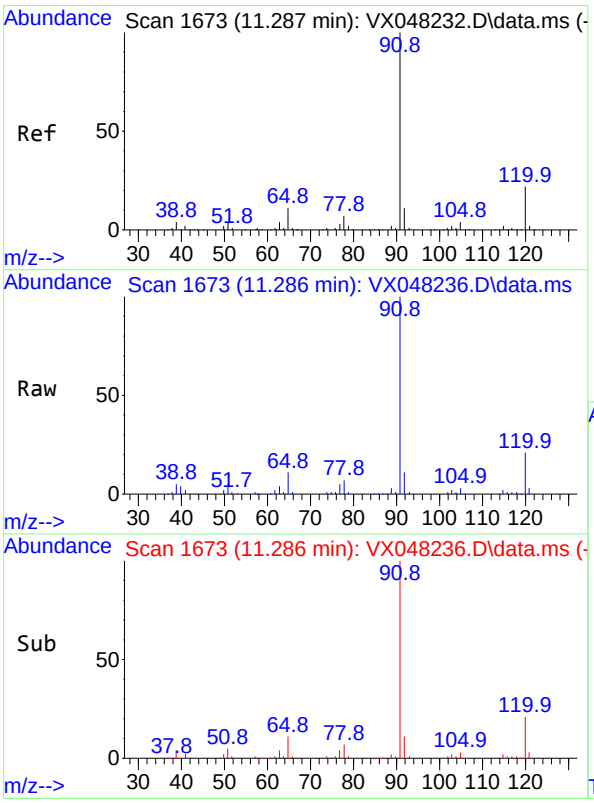
#77
Bromobenzene
Concen: 4.898 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:156 Resp: 9508

Ion	Ratio	Lower	Upper
156	100		
77	162.1	87.0	261.0
158	96.5	47.8	143.4

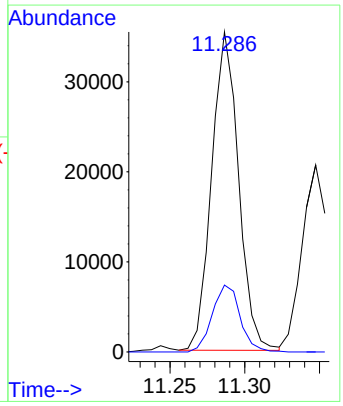


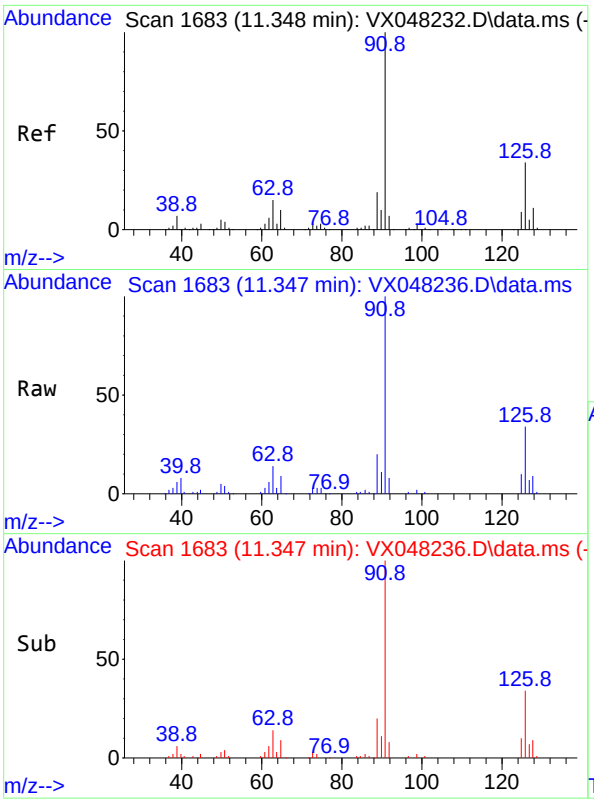


#78
n-propylbenzene
Concen: 4.930 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 91 Resp: 44189

Ion	Ratio	Lower	Upper
91	100		
120	21.7	11.1	33.1



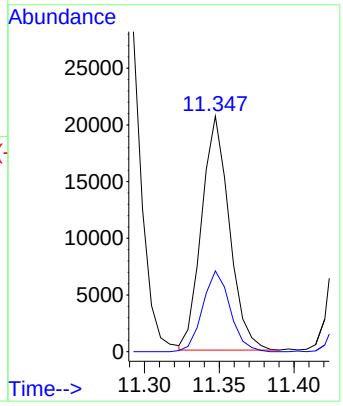


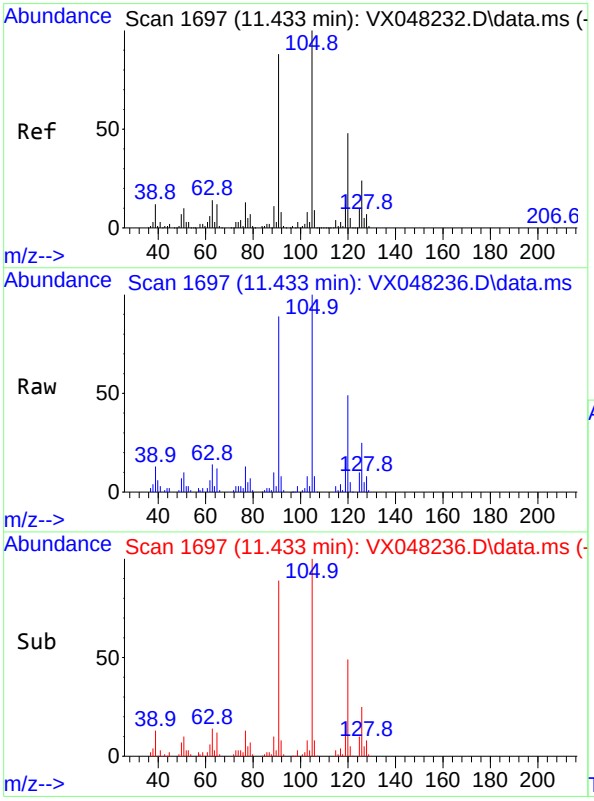
#79
2-Chlorotoluene
Concen: 4.899 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 26627

Ion	Ratio	Lower	Upper
91	100		
126	34.0	16.4	49.4

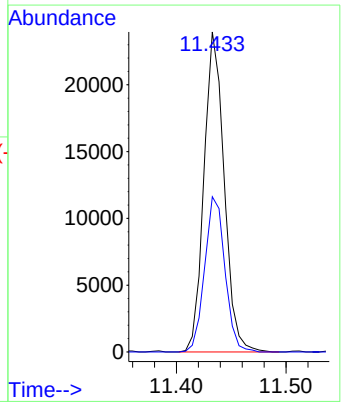


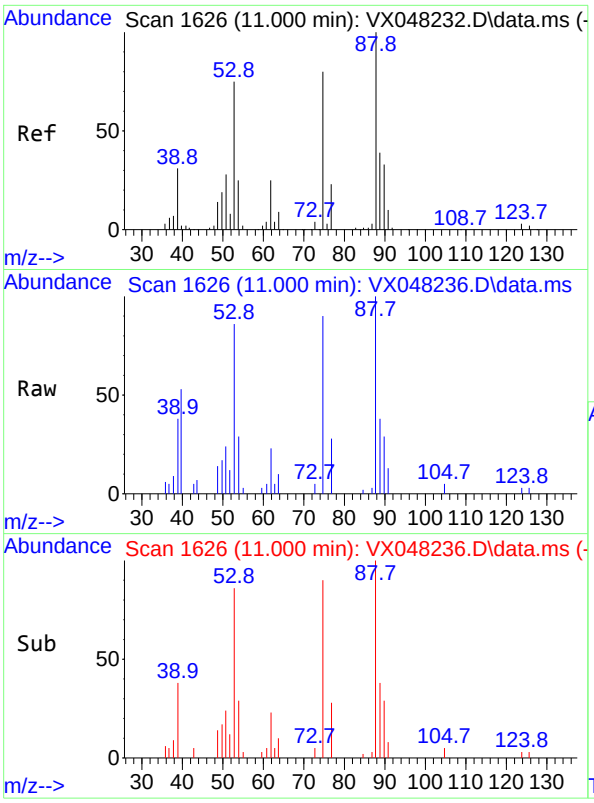


#80
1,3,5-Trimethylbenzene
Concen: 4.779 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:105 Resp: 30618

Ion	Ratio	Lower	Upper
105	100		
120	48.8	24.0	72.0



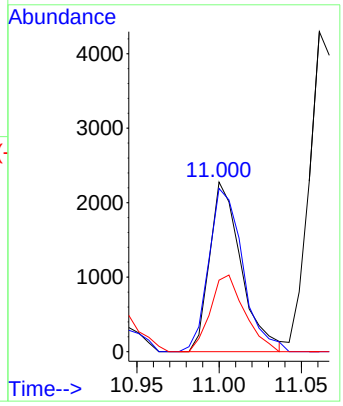


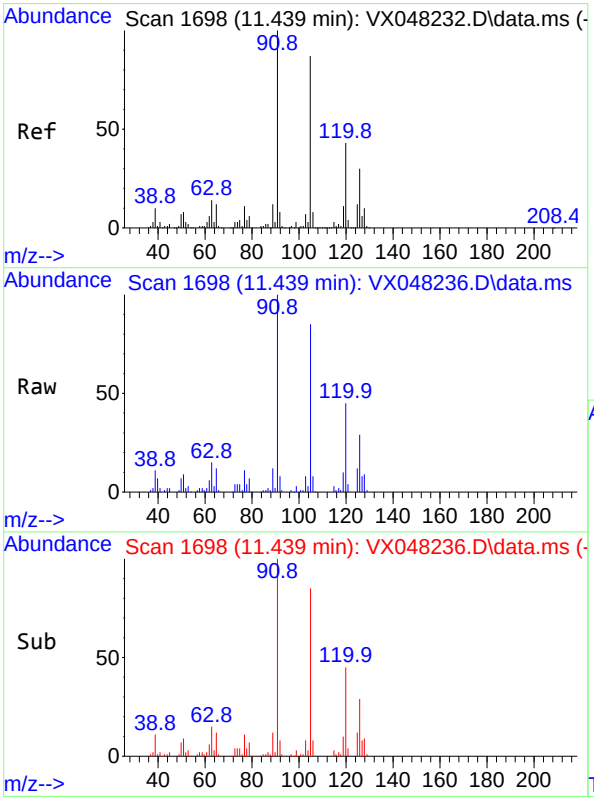
#81
trans-1,4-Dichloro-2-butene
Concen: 4.300 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 3038

Ion	Ratio	Lower	Upper
75	100		
53	103.8	79.5	119.3
89	49.0	36.8	55.2

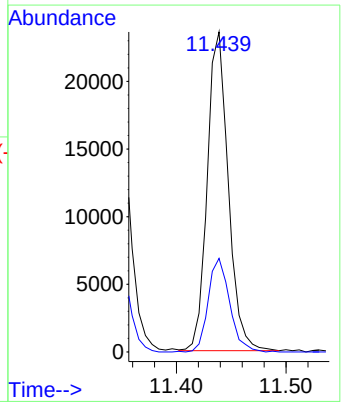


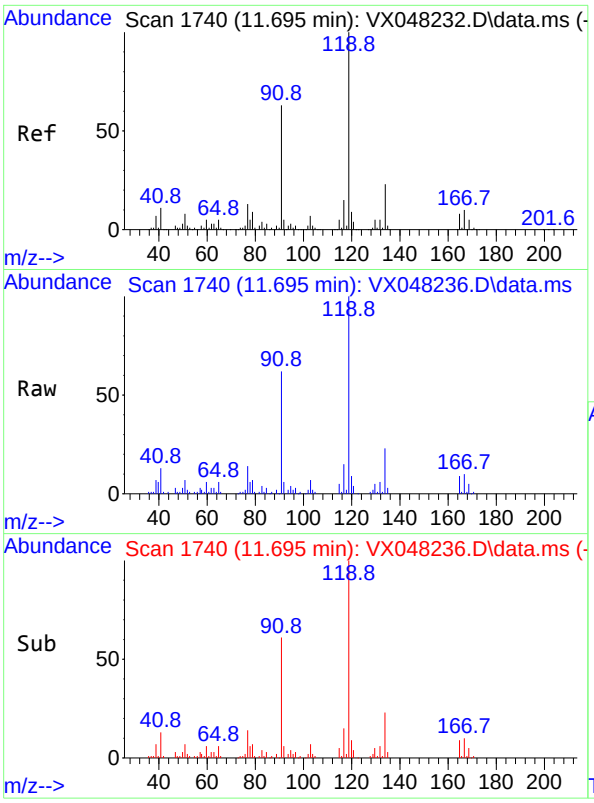


#82
4-Chlorotoluene
Concen: 4.860 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 91 Resp: 31357

Ion	Ratio	Lower	Upper
91	100		
126	30.1	14.1	42.4



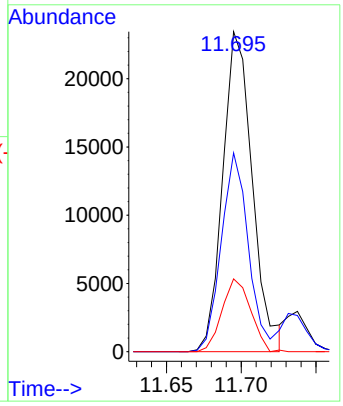


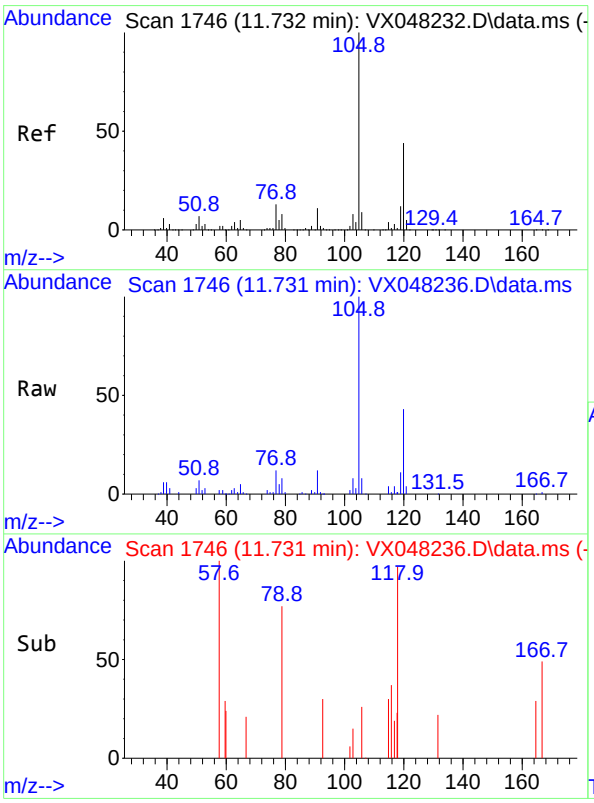
#83
tert-Butylbenzene
Concen: 4.906 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:119 Resp: 32297

Ion	Ratio	Lower	Upper
119	100		
91	56.8	30.3	91.0
134	22.0	11.4	34.2

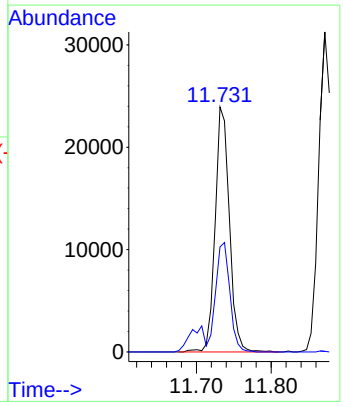


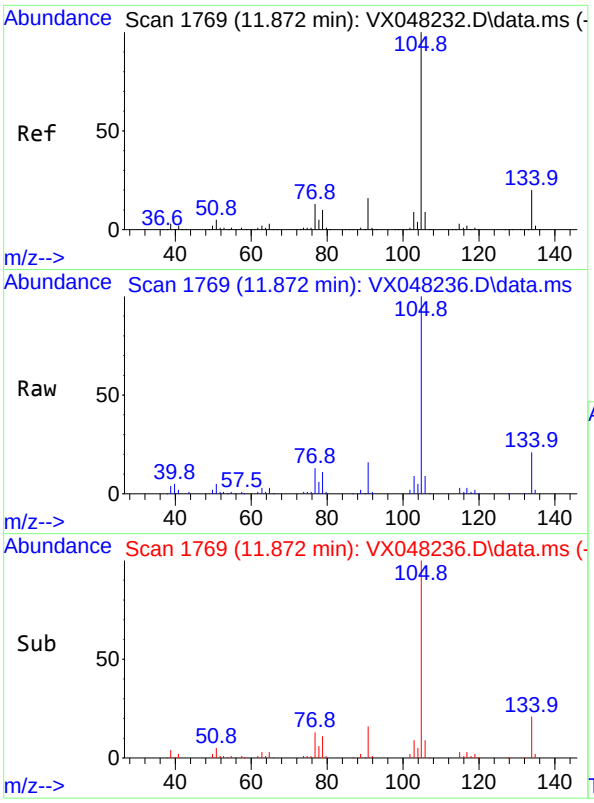


#84
1,2,4-Trimethylbenzene
Concen: 4.959 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:105 Resp: 31709

Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.1	66.5



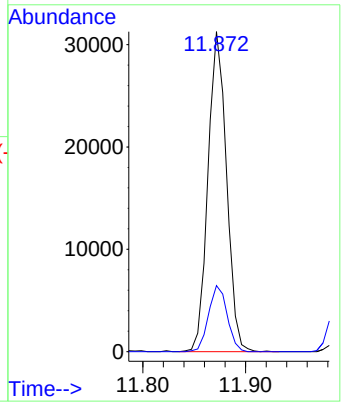


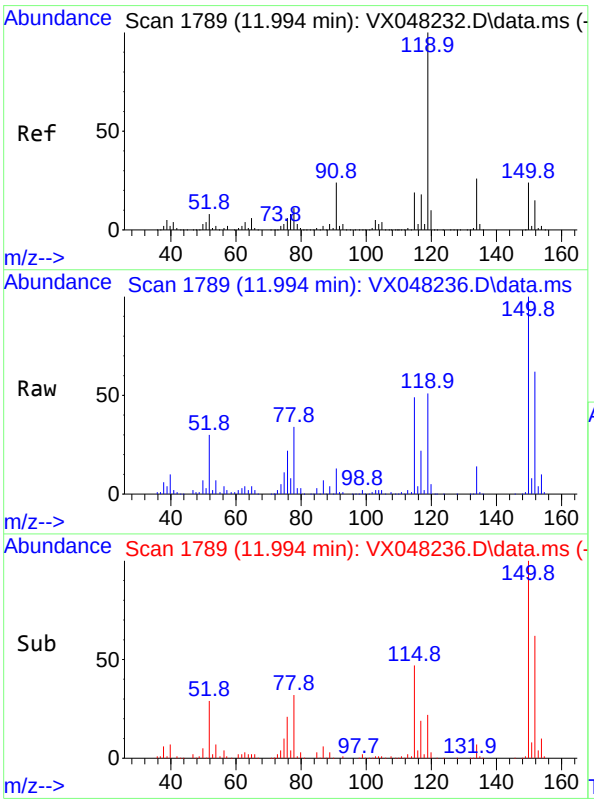
#85
sec-Butylbenzene
Concen: 4.939 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 39113

Ion	Ratio	Lower	Upper
105	100		
134	20.8	10.1	30.1

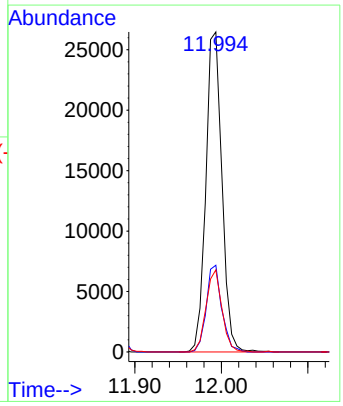


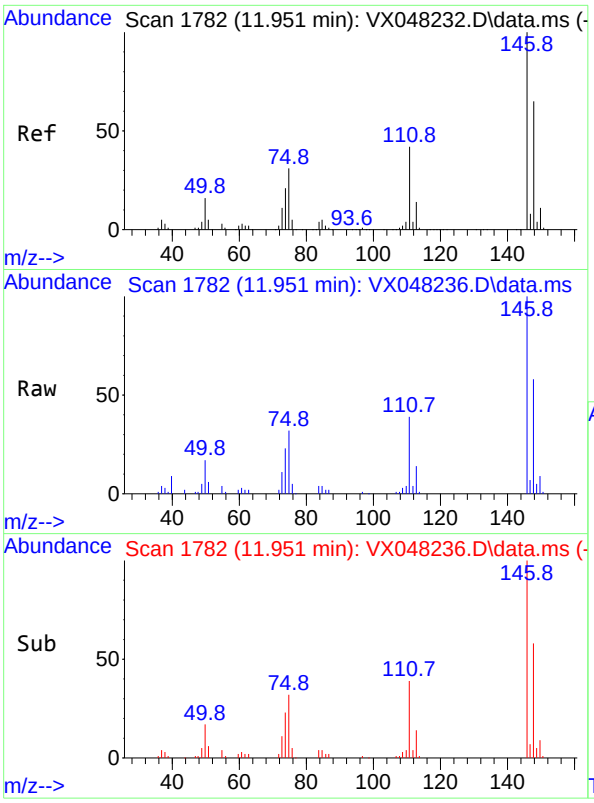


#86
p-Isopropyltoluene
Concen: 4.989 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:119 Resp: 34155

Ion	Ratio	Lower	Upper
119	100		
134	26.1	13.0	39.0
91	25.3	12.1	36.3



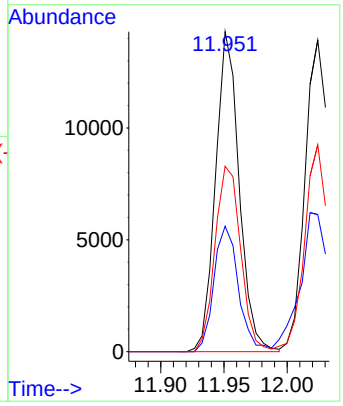


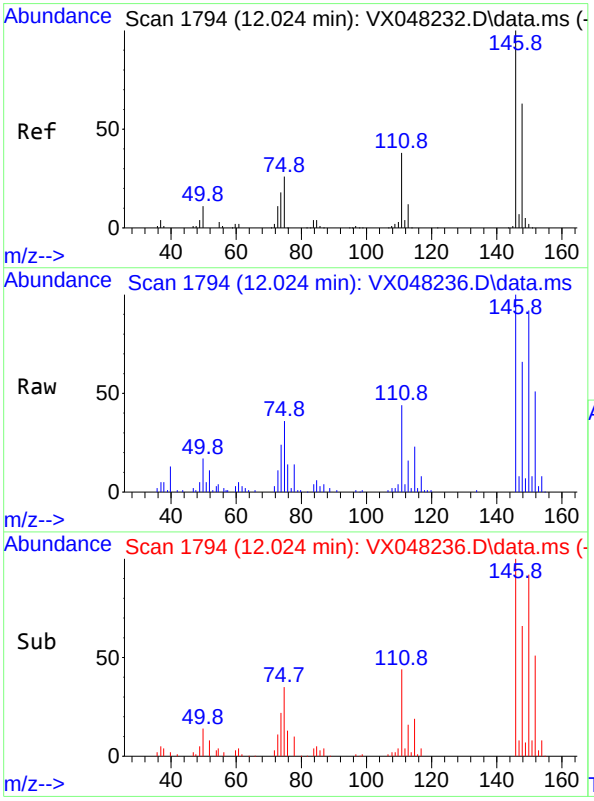
#87
1,3-Dichlorobenzene
Concen: 5.068 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 18546

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.4	61.2
148	63.1	31.9	95.9

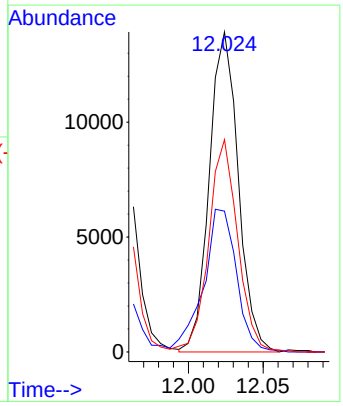


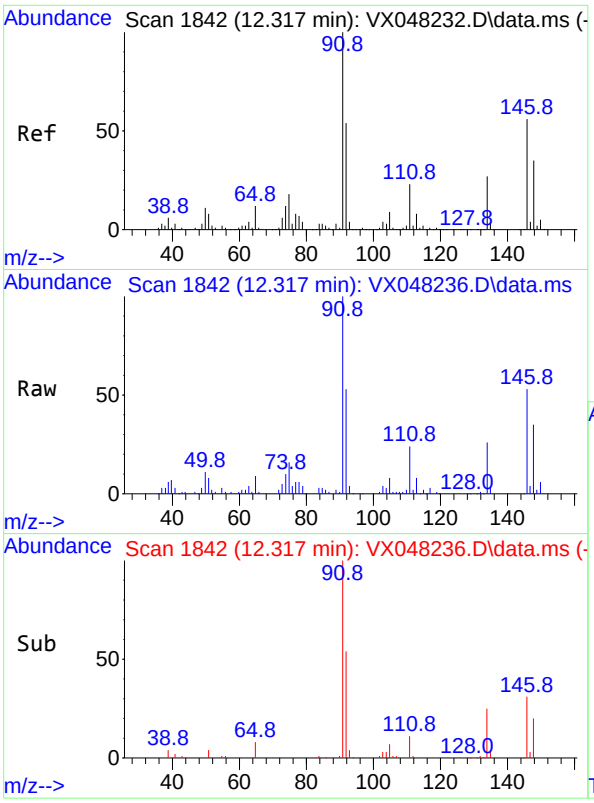


#88
1,4-Dichlorobenzene
Concen: 4.955 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:146 Resp: 18787

Ion	Ratio	Lower	Upper
146	100		
111	50.9	20.1	60.2
148	66.5	31.8	95.3



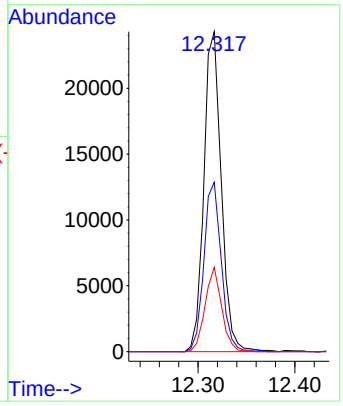


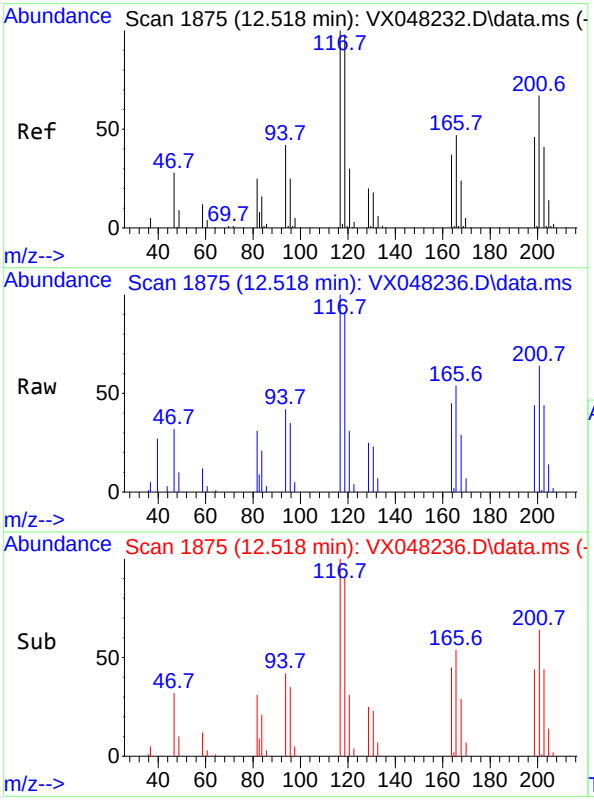
#89
n-Butylbenzene
Concen: 4.880 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 30409

Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.9	80.6
134	25.2	12.7	38.1

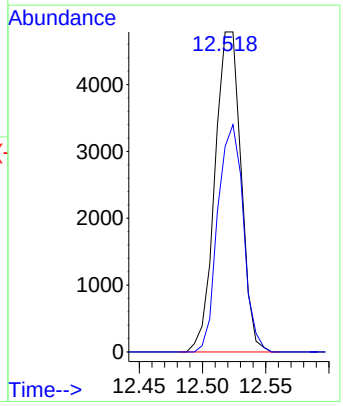


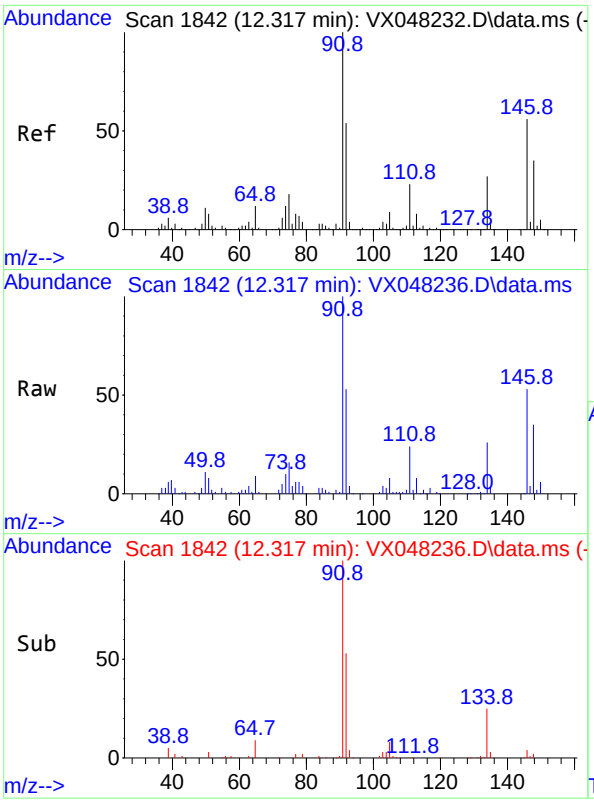


#90
Hexachloroethane
Concen: 5.077 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:117 Resp: 6863

Ion	Ratio	Lower	Upper
117	100		
201	69.4	34.1	102.2



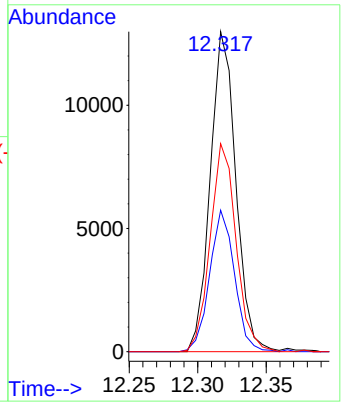


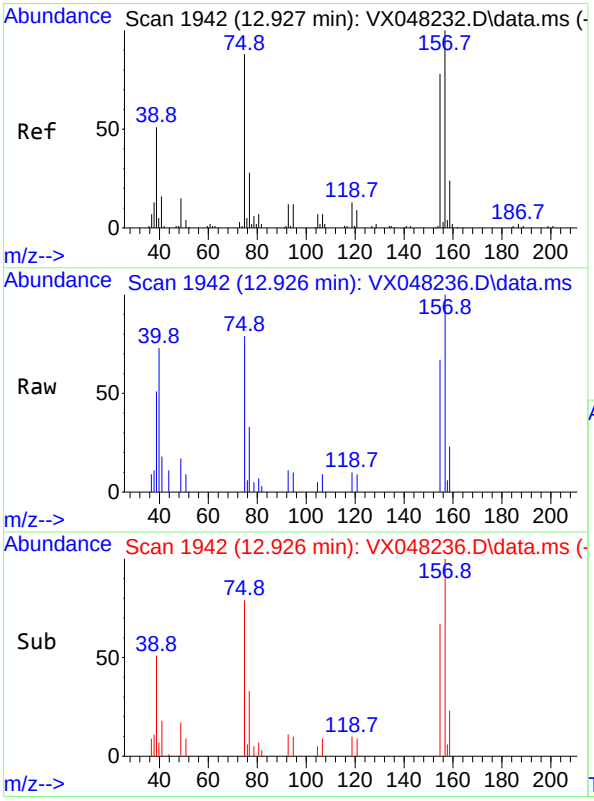
#91
1,2-Dichlorobenzene
Concen: 4.904 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 16849

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.9	65.5
148	65.9	31.9	95.5

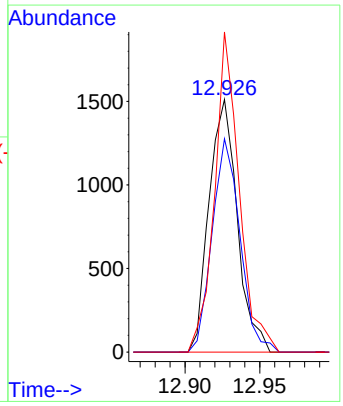


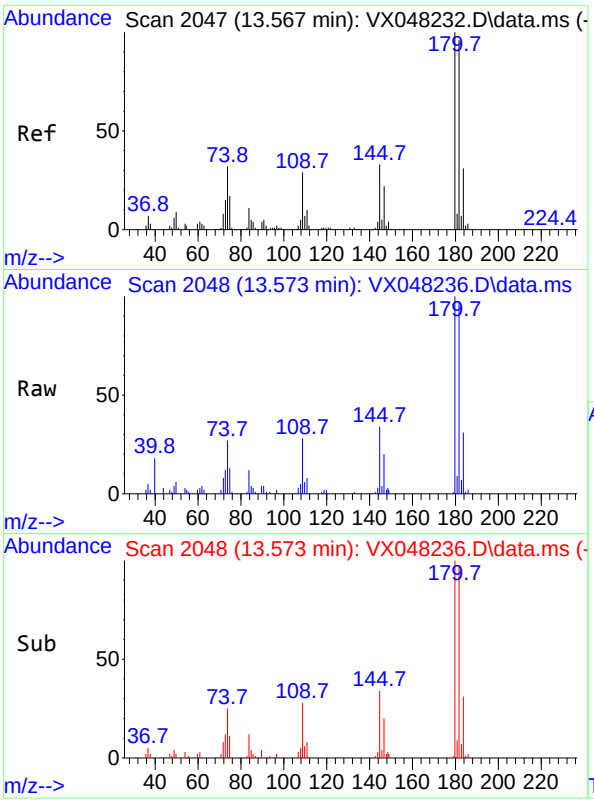


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.623 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 75 Resp: 1984

Ion	Ratio	Lower	Upper
75	100		
155	83.2	42.8	128.4
157	110.7	54.2	162.6



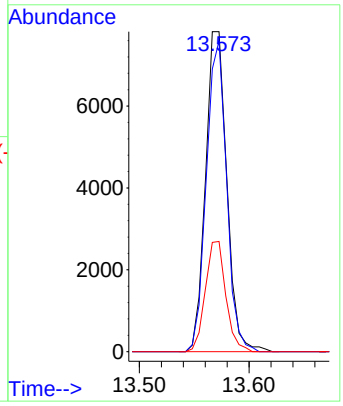


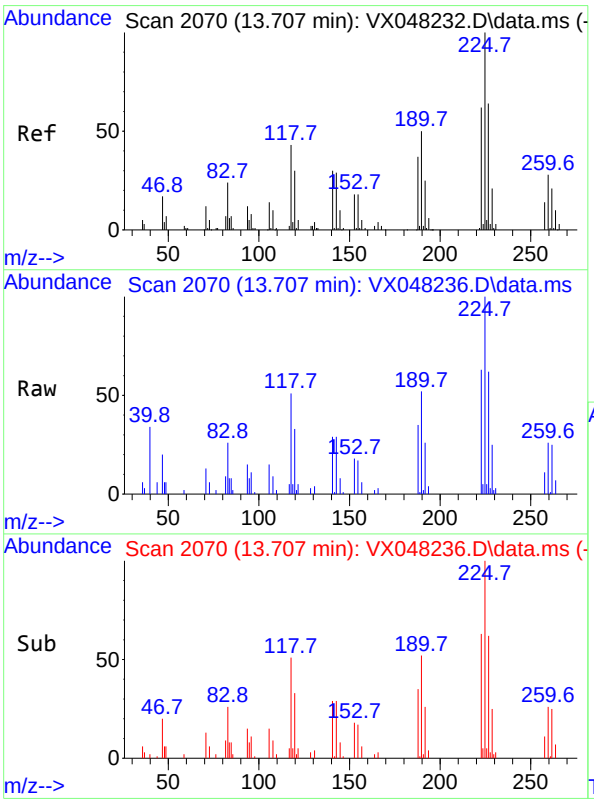
#93
1,2,4-Trichlorobenzene
Concen: 4.535 ug/l
RT: 13.573 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:180 Resp: 10538

Ion	Ratio	Lower	Upper
180	100		
182	92.5	47.3	142.0
145	33.2	16.3	48.9

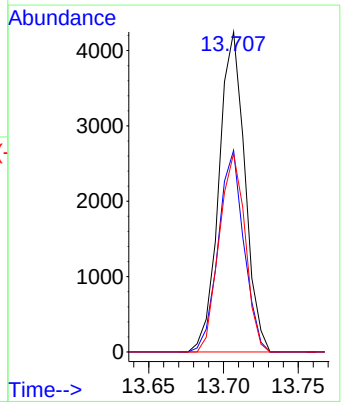


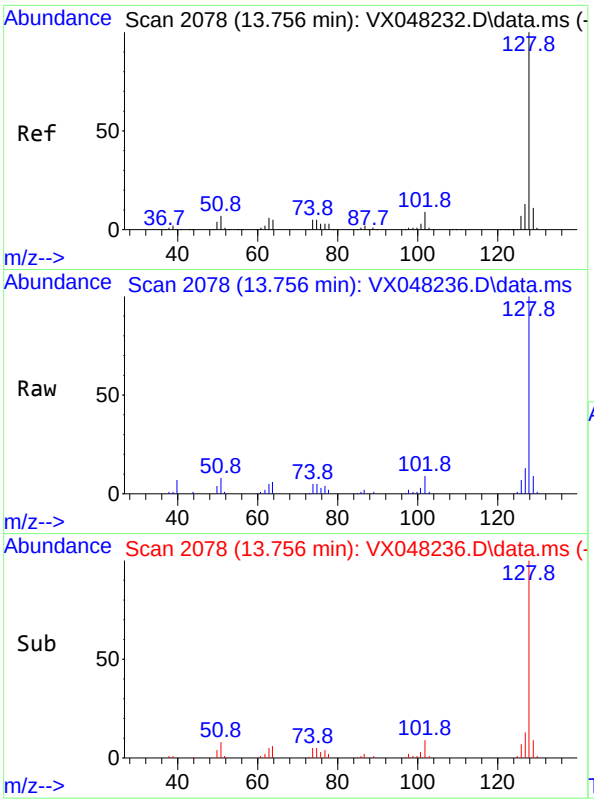


#94
Hexachlorobutadiene
Concen: 5.931 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:225 Resp: 5113

Ion	Ratio	Lower	Upper
225	100		
223	62.3	32.6	97.7
227	62.0	32.5	97.4



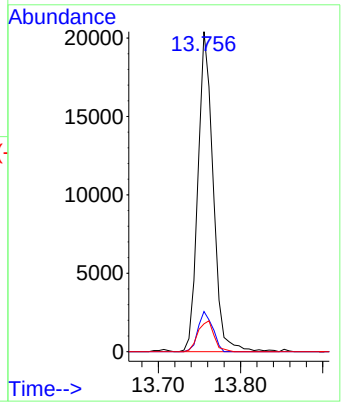


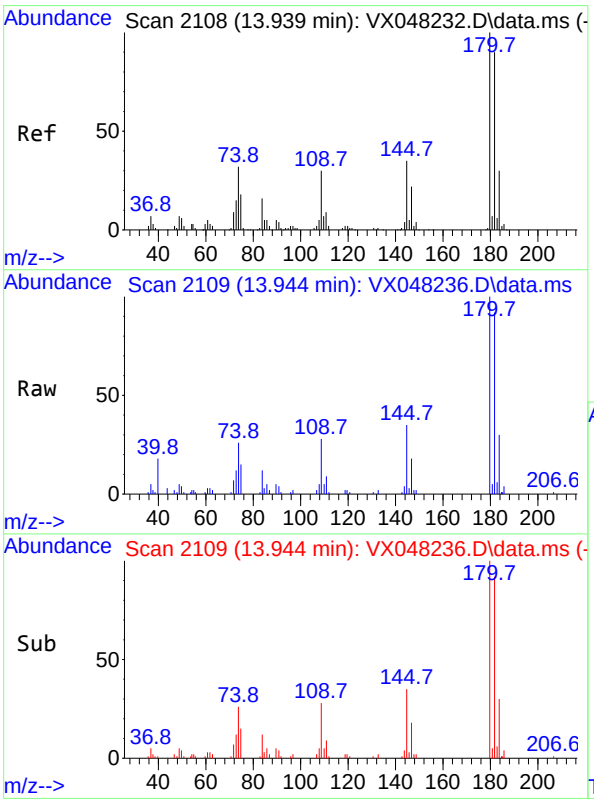
#95
Naphthalene
Concen: 4.259 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:128 Resp: 26218

Ion	Ratio	Lower	Upper
128	100		
127	12.0	10.2	15.4
129	10.2	8.6	12.8

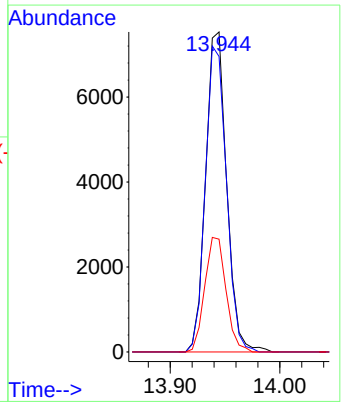




#96
1,2,3-Trichlorobenzene
Concen: 4.709 ug/l
RT: 13.944 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:180 Resp: 10040

Ion	Ratio	Lower	Upper
180	100		
182	95.7	46.6	139.7
145	36.3	16.9	50.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048237.D
Acq On : 20 Oct 2025 14:28
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Quant Time: Oct 25 03:38:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.531	168	144715	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	229650	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	201397	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.000	152	99108	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	92700	45.687	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 91.380%			
35) Dibromofluoromethane	5.367	113	76746	48.951	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.900%			
50) Toluene-d8	8.628	98	265898	48.386	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 96.780%			
62) 4-Bromofluorobenzene	11.061	95	97828	46.795	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 93.580%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	76365	51.331	ug/l	99
3) Chloromethane	1.301	50	74279	53.491	ug/l	99
4) Vinyl Chloride	1.380	62	71290	55.441	ug/l	99
5) Bromomethane	1.611	94	47863	54.847	ug/l	96
6) Chloroethane	1.691	64	42556	56.320	ug/l	95
7) Trichlorofluoromethane	1.892	101	128754	52.209	ug/l	97
8) Diethyl Ether	2.136	74	37292	53.742	ug/l	89
9) 1,1,2-Trichlorotrifluo...	2.331	101	83688	53.589	ug/l	96
10) Methyl Iodide	2.453	142	94222	47.994	ug/l	99
11) Tert butyl alcohol	2.934	59	45064	223.693	ug/l	98
12) 1,1-Dichloroethene	2.319	96	79070	52.043	ug/l	92
13) Acrolein	2.233	56	51257	249.473	ug/l	98
14) Allyl chloride	2.660	41	128896	51.099	ug/l	97
15) Acrylonitrile	3.050	53	182260	250.900	ug/l	100
16) Acetone	2.373	43	152988	219.789	ug/l	96
17) Carbon Disulfide	2.514	76	233630	48.792	ug/l	99
18) Methyl Acetate	2.697	43	71506	49.190	ug/l	94
19) Methyl tert-butyl Ether	3.105	73	254812	49.162	ug/l	98
20) Methylene Chloride	2.782	84	86610	51.066	ug/l	92
21) trans-1,2-Dichloroethene	3.087	96	85000	50.932	ug/l	96
22) Diisopropyl ether	3.745	45	259934	51.665	ug/l	99
23) Vinyl Acetate	3.709	43	1045584	260.168	ug/l	97
24) 1,1-Dichloroethane	3.599	63	150557	49.490	ug/l	99
25) 2-Butanone	4.532	43	209999	238.354	ug/l	97
26) 2,2-Dichloropropane	4.458	77	132433	48.230	ug/l	100
27) cis-1,2-Dichloroethene	4.471	96	98066	50.350	ug/l	96
28) Bromochloromethane	4.879	49	58764	46.587	ug/l	87
29) Tetrahydrofuran	4.977	42	127995	242.572	ug/l	95
30) Chloroform	5.074	83	157397	48.427	ug/l	99
31) Cyclohexane	5.458	56	132594	52.646	ug/l	92
32) 1,1,1-Trichloroethane	5.361	97	144706	48.309	ug/l	98
36) 1,1-Dichloropropene	5.672	75	109957	49.344	ug/l	100
37) Ethyl Acetate	4.690	43	88074	47.684	ug/l	98
38) Carbon Tetrachloride	5.659	117	132590	48.228	ug/l	99
39) Methylcyclohexane	7.360	83	138611	52.670	ug/l	94
40) Benzene	6.019	78	325041	50.241	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048237.D
Acq On : 20 Oct 2025 14:28
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Quant Time: Oct 25 03:38:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.891	41	48846	50.358	ug/l		95
42) 1,2-Dichloroethane	6.068	62	116893	48.963	ug/l		98
43) Isopropyl Acetate	6.318	43	151140	49.816	ug/l		95
44) Trichloroethene	7.104	130	86410	50.582	ug/l		96
45) 1,2-Dichloropropane	7.409	63	78439	50.994	ug/l		98
46) Dibromomethane	7.562	93	58616	48.913	ug/l		94
47) Bromodichloromethane	7.799	83	125388	48.459	ug/l		99
48) Methyl methacrylate	7.671	41	75812	49.519	ug/l		94
49) 1,4-Dioxane	7.635	88	20230	1000.197	ug/l		90
51) 4-Methyl-2-Pentanone	8.555	43	428393	244.897	ug/l		95
52) Toluene	8.702	92	205867	50.088	ug/l		99
53) t-1,3-Dichloropropene	8.958	75	124683	50.004	ug/l		100
54) cis-1,3-Dichloropropene	8.348	75	134360	49.944	ug/l		93
55) 1,1,2-Trichloroethane	9.134	97	75808	49.597	ug/l		98
56) Ethyl methacrylate	9.098	69	111702	49.964	ug/l		94
57) 1,3-Dichloropropane	9.287	76	128519	49.226	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.220	63	290992	242.124	ug/l		96
59) 2-Hexanone	9.409	43	300183	246.102	ug/l		96
60) Dibromochloromethane	9.500	129	97643	47.530	ug/l		99
61) 1,2-Dibromoethane	9.592	107	80363	49.319	ug/l		97
64) Tetrachloroethene	9.256	164	73198	48.686	ug/l		95
65) Chlorobenzene	10.061	112	226953	50.095	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.140	131	81561	49.014	ug/l		99
67) Ethyl Benzene	10.177	91	391830	50.798	ug/l		99
68) m/p-Xylenes	10.281	106	293516	102.416	ug/l		99
69) o-Xylene	10.622	106	139515	50.424	ug/l		99
70) Styrene	10.634	104	243341	51.651	ug/l		100
71) Bromoform	10.781	173	64170	48.250	ug/l	#	99
73) Isopropylbenzene	10.945	105	373948	51.658	ug/l		100
74) N-amyl acetate	10.823	43	131979	51.399	ug/l		96
75) 1,1,2,2-Tetrachloroethane	11.195	83	98715	49.936	ug/l		98
76) 1,2,3-Trichloropropane	11.219	75	111265	69.229	ug/l		82
77) Bromobenzene	11.177	156	91000	50.135	ug/l		94
78) n-propylbenzene	11.287	91	435662	51.980	ug/l		99
79) 2-Chlorotoluene	11.341	91	257936	50.760	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	305027	50.918	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	33027	49.995	ug/l		96
82) 4-Chlorotoluene	11.433	91	304670	50.507	ug/l		98
83) tert-Butylbenzene	11.695	119	309524	50.288	ug/l		99
84) 1,2,4-Trimethylbenzene	11.732	105	308529	51.607	ug/l		100
85) sec-Butylbenzene	11.872	105	379368	51.230	ug/l		100
86) p-Isopropyltoluene	11.988	119	324425	50.686	ug/l		100
87) 1,3-Dichlorobenzene	11.951	146	165027	48.229	ug/l		98
88) 1,4-Dichlorobenzene	12.024	146	168102	47.423	ug/l		99
89) n-Butylbenzene	12.311	91	289706	49.728	ug/l		99
90) Hexachloroethane	12.518	117	61223	48.437	ug/l		95
91) 1,2-Dichlorobenzene	12.317	146	157812	49.123	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	19691	49.072	ug/l		98
93) 1,2,4-Trichlorobenzene	13.567	180	101983	46.941	ug/l		99
94) Hexachlorobutadiene	13.707	225	39299	48.274	ug/l		99
95) Naphthalene	13.756	128	289882	50.362	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	96139	48.223	ug/l		97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048237.D
Acq On : 20 Oct 2025 14:28
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Quant Time: Oct 25 03:38:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

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

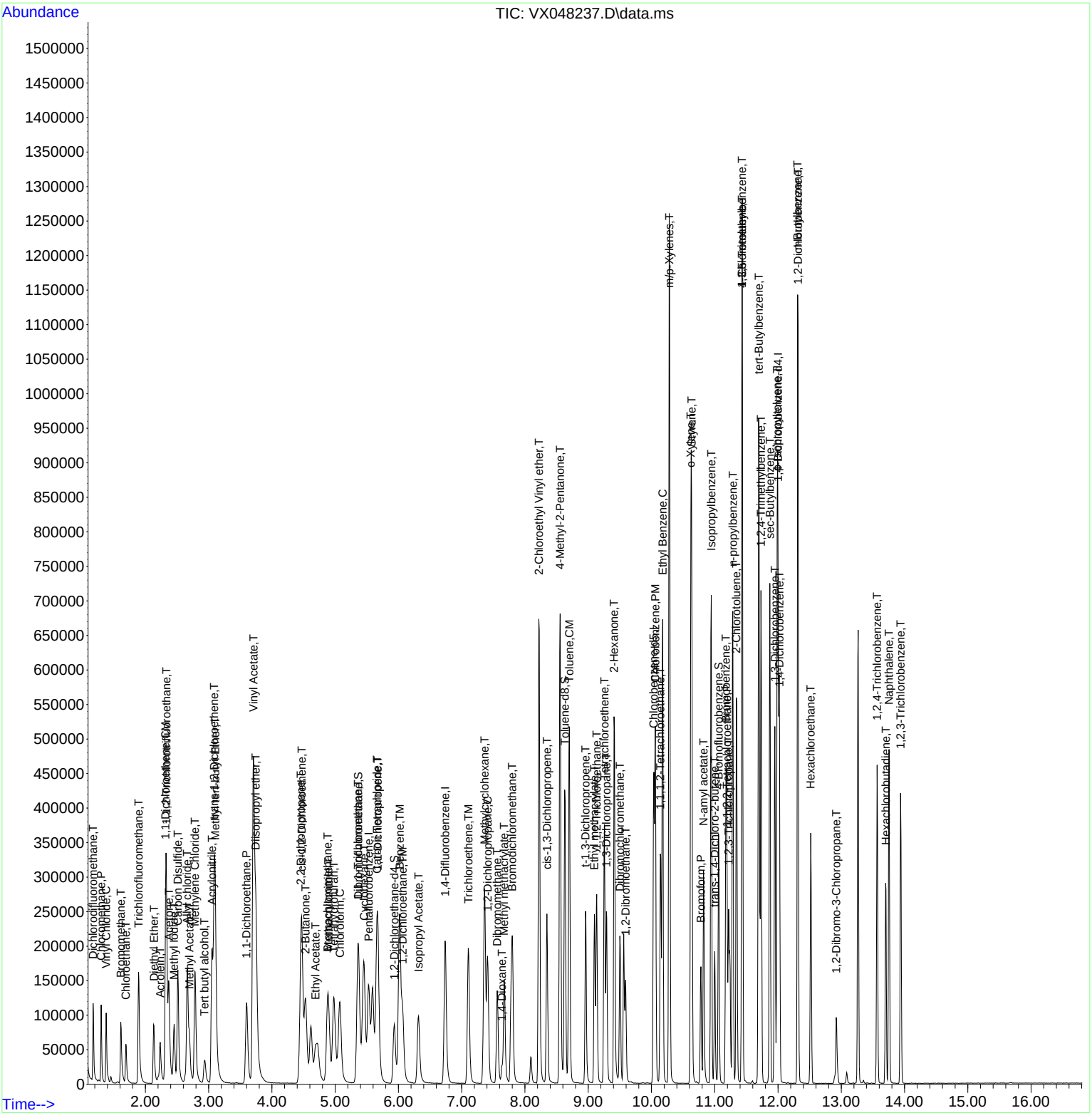
(#) = qualifier out of range (m) = manual integration (+) = signals summed

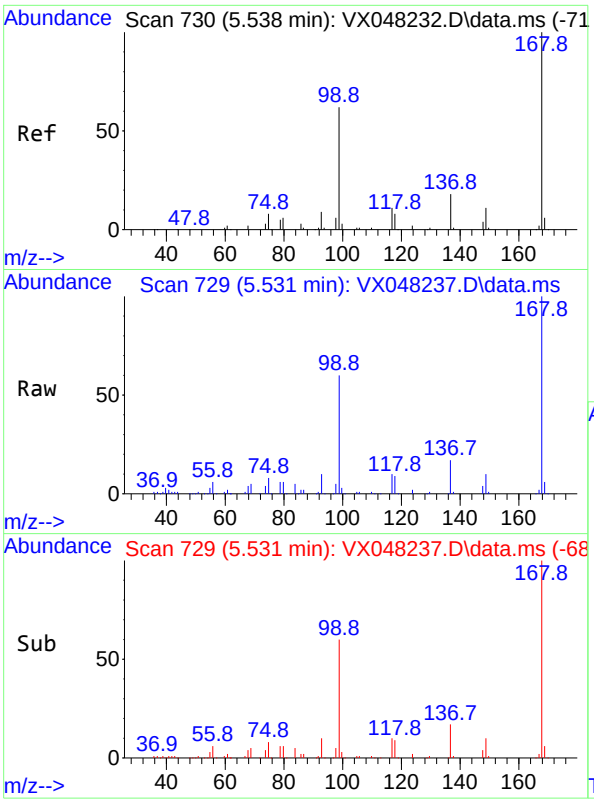
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048237.D
Acq On : 20 Oct 2025 14:28
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Quant Time: Oct 25 03:38:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration



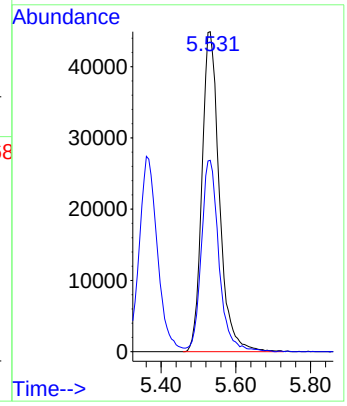


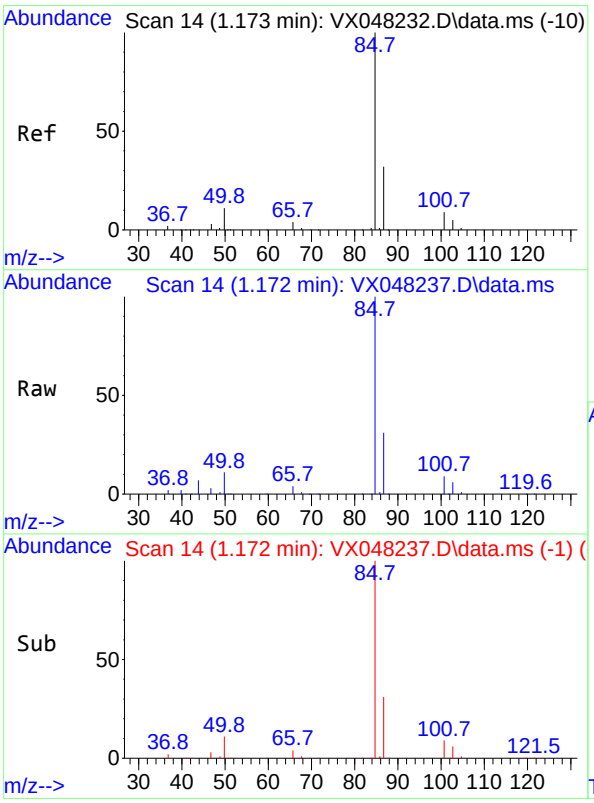
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 7
Delta R.T. -0.013 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion:168 Resp: 144715

Ion	Ratio	Lower	Upper
168	100		
99	59.7	46.4	69.6

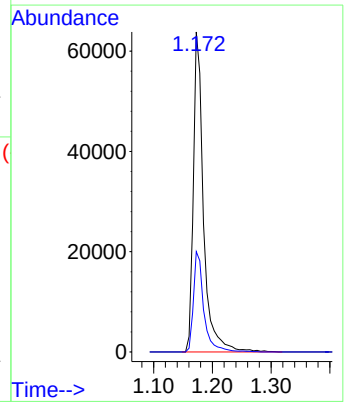


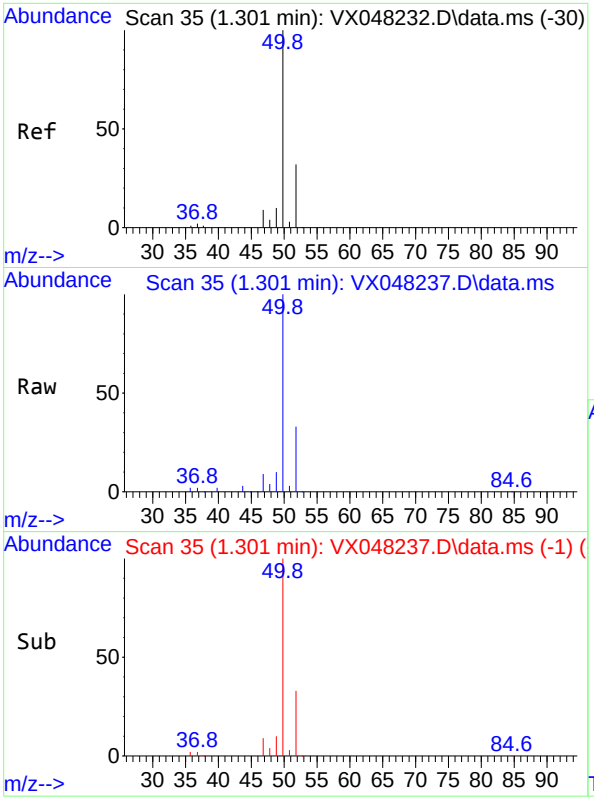


#2
Dichlorodifluoromethane
Concen: 51.331 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 85 Resp: 76365

Ion	Ratio	Lower	Upper
85	100		
87	31.4	15.3	45.9



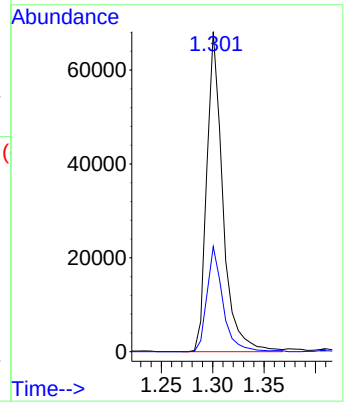


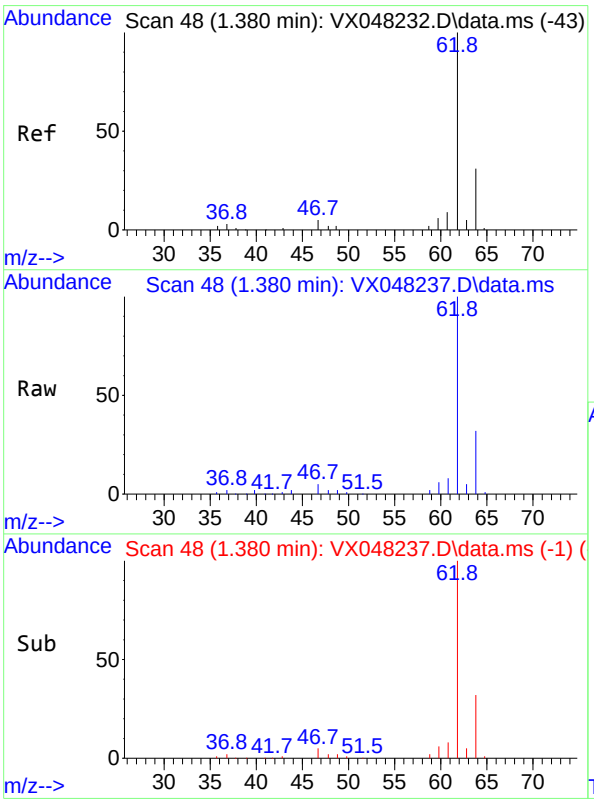
#3
Chloromethane
Concen: 53.491 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 50 Resp: 74279

Ion	Ratio	Lower	Upper
50	100		
52	32.9	25.9	38.9

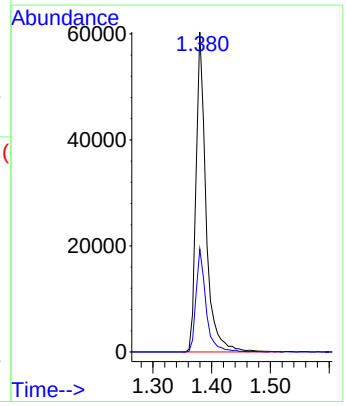


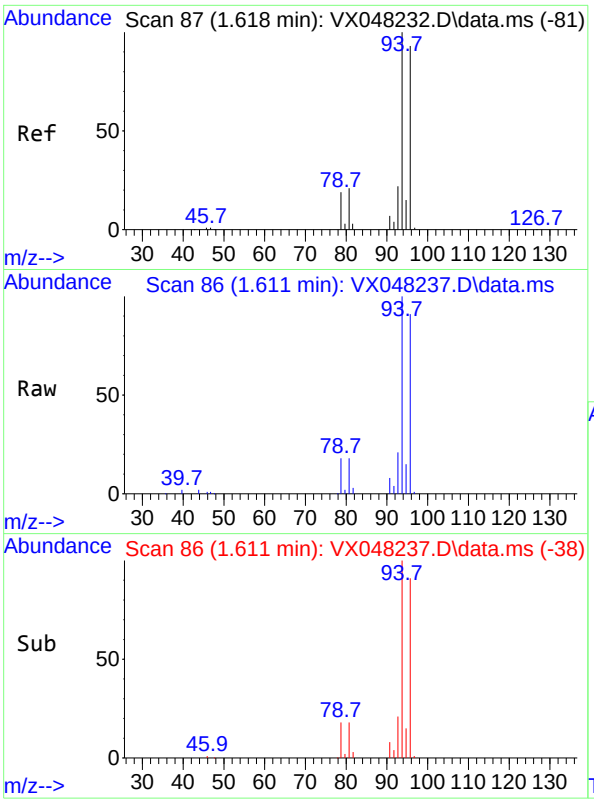


#4
Vinyl Chloride
Concen: 55.441 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 62 Resp: 71290

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.1	37.7



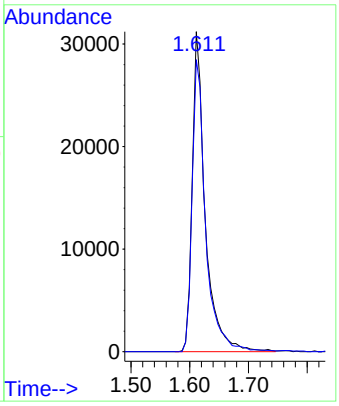


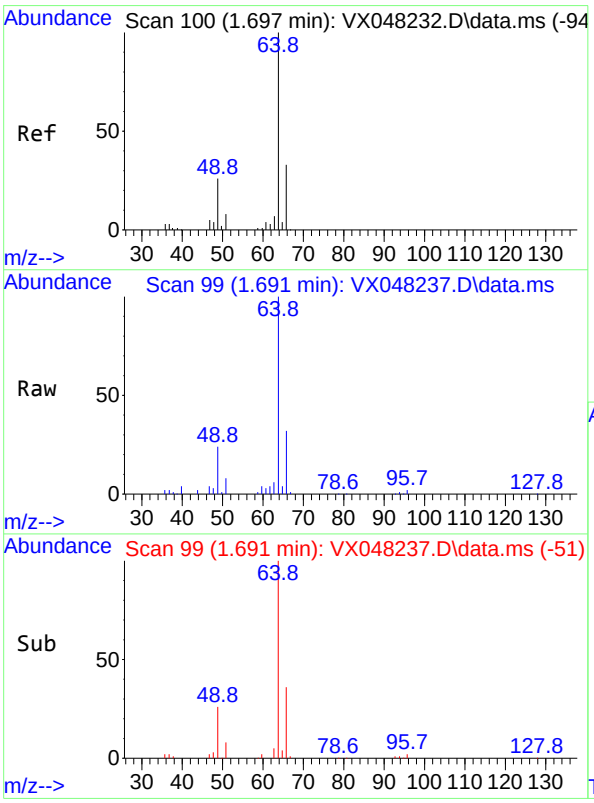
#5
Bromomethane
Concen: 54.847 ug/l
RT: 1.611 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 94 Resp: 47863

Ion	Ratio	Lower	Upper
94	100		
96	91.2	76.0	114.0

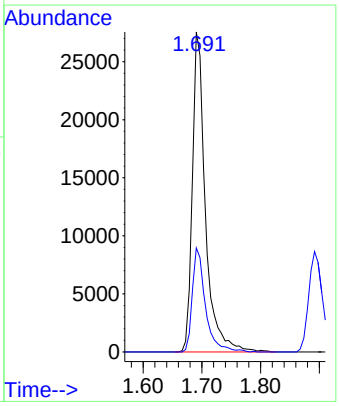


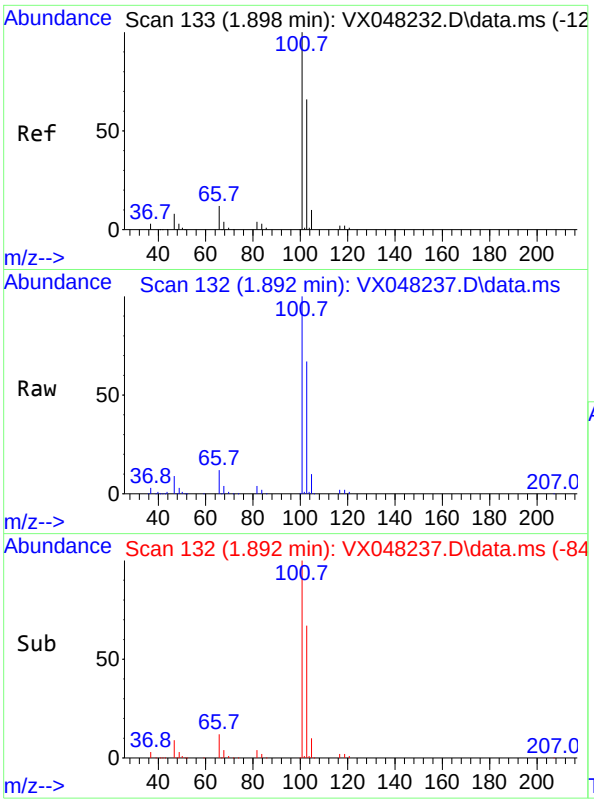


#6
Chloroethane
Concen: 56.320 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 64 Resp: 42556

Ion	Ratio	Lower	Upper
64	100		
66	32.5	23.9	35.9



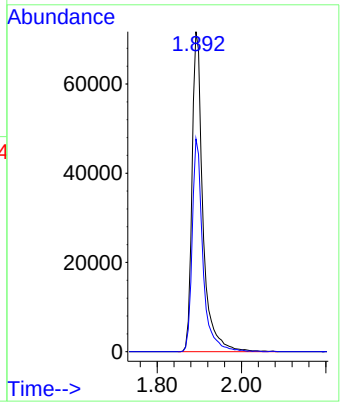


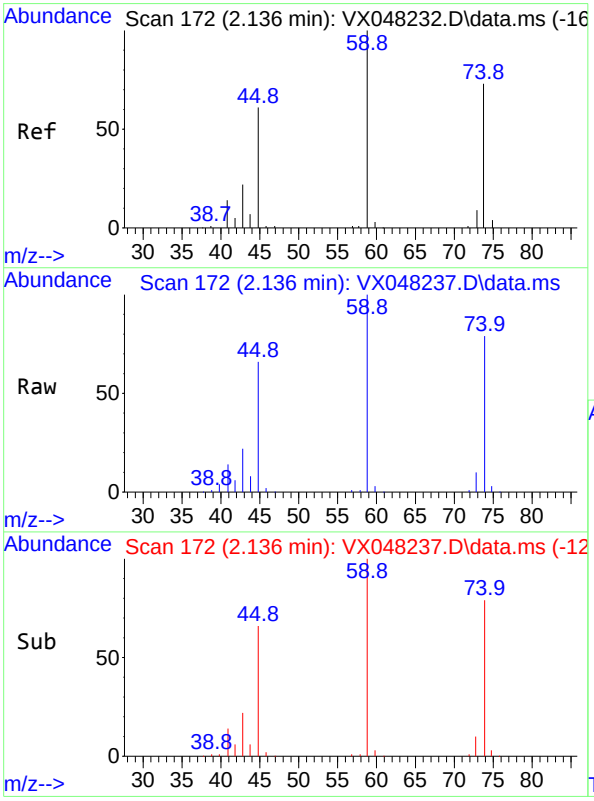
#7
Trichlorofluoromethane
Concen: 52.209 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion:101 Resp: 128754

Ion	Ratio	Lower	Upper
101	100		
103	66.5	51.6	77.4

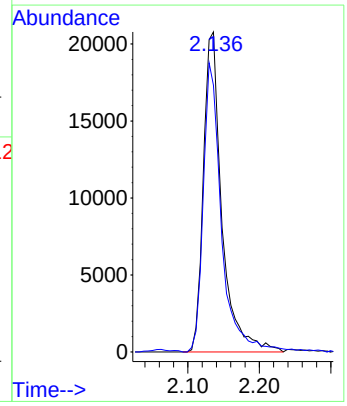


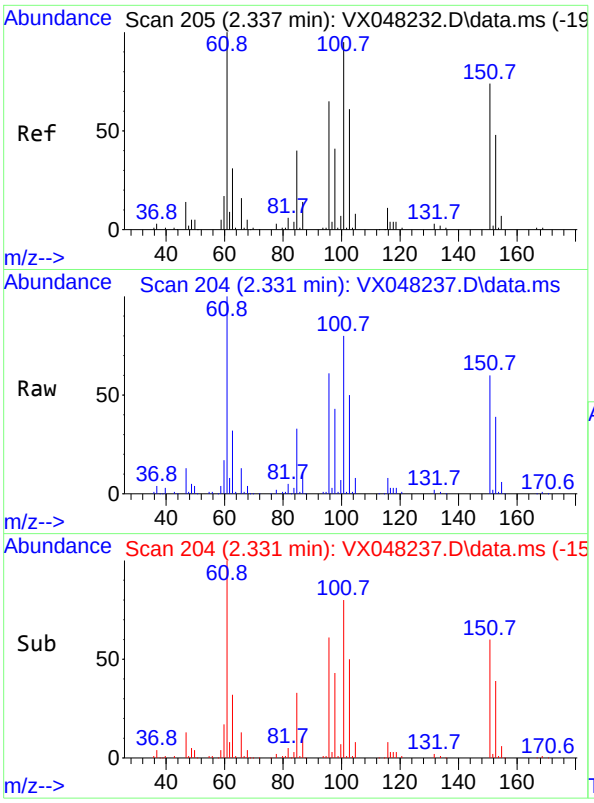


#8
Diethyl Ether
Concen: 53.742 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 74 Resp: 37292

Ion	Ratio	Lower	Upper
74	100		
45	89.3	50.0	149.8



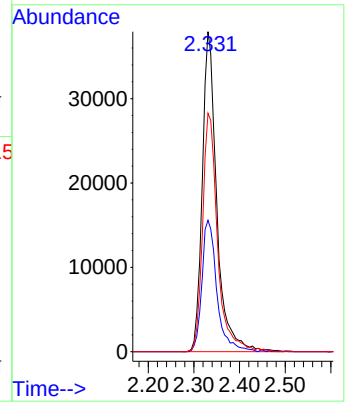


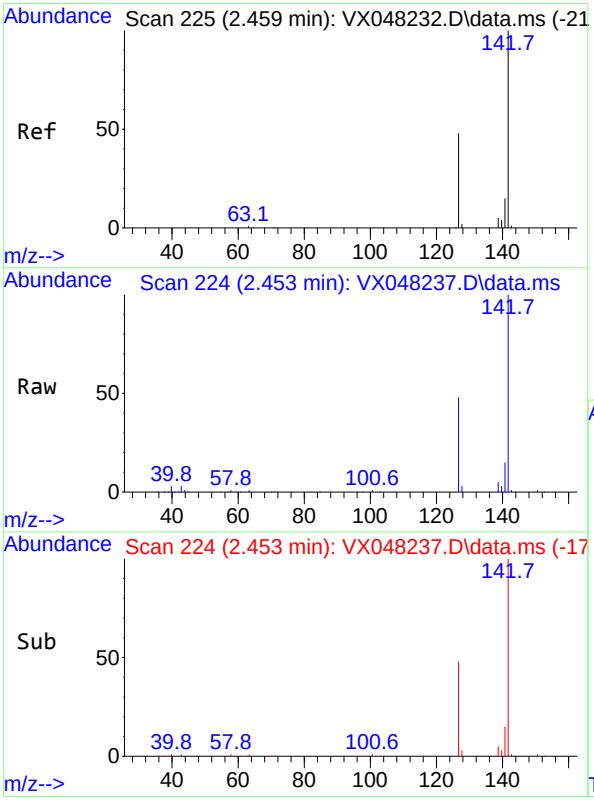
#9
1,1,2-Trichlorotrifluoroethane
Concen: 53.589 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion:101 Resp: 83688

Ion	Ratio	Lower	Upper
101	100		
85	42.4	35.6	53.4
151	76.9	58.0	87.0

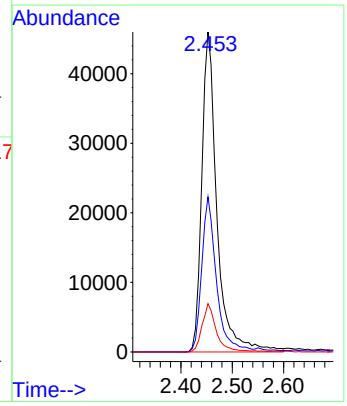


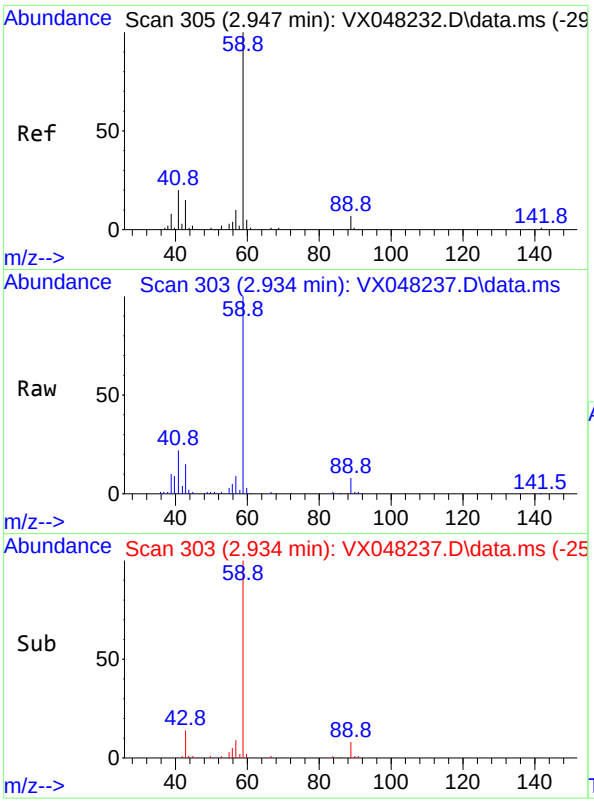


#10
Methyl Iodide
Concen: 47.994 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:142 Resp: 94222

Ion	Ratio	Lower	Upper
142	100		
127	46.9	38.5	57.7
141	14.3	11.6	17.4



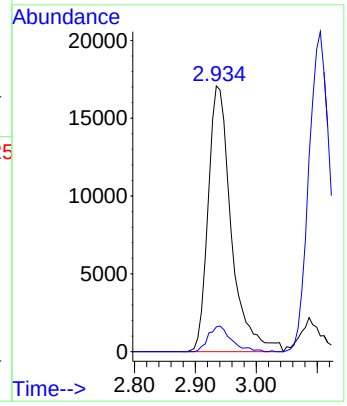


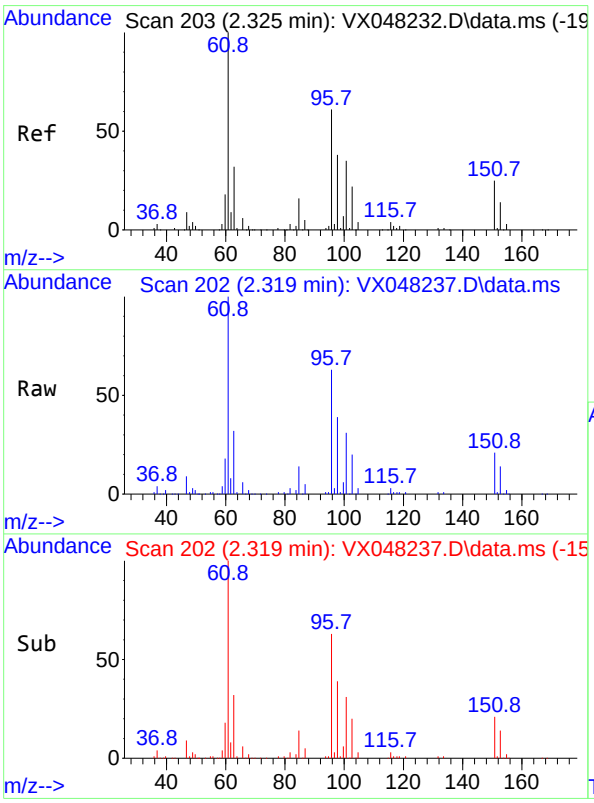
#11
Tert butyl alcohol
Concen: 223.693 ug/l
RT: 2.934 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 59 Resp: 45064

Ion	Ratio	Lower	Upper
59	100		
57	9.6	8.2	12.4

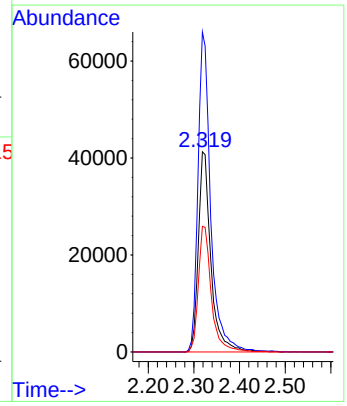


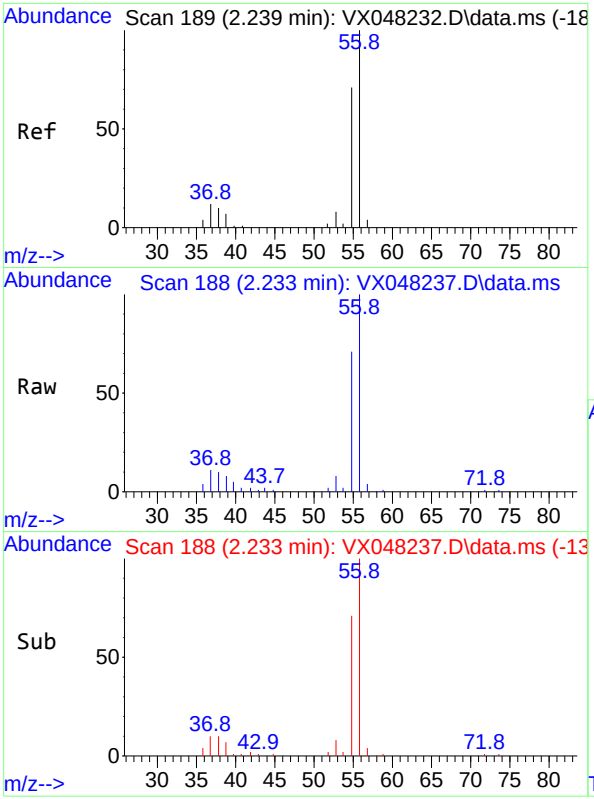


#12
1,1-Dichloroethene
Concen: 52.043 ug/l
RT: 2.319 min Scan# 202
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 96 Resp: 79070

Ion	Ratio	Lower	Upper
96	100		
61	159.8	139.0	208.6
98	62.7	52.4	78.6



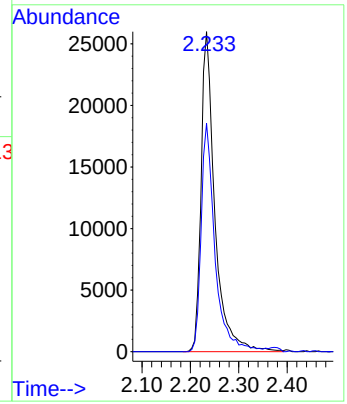


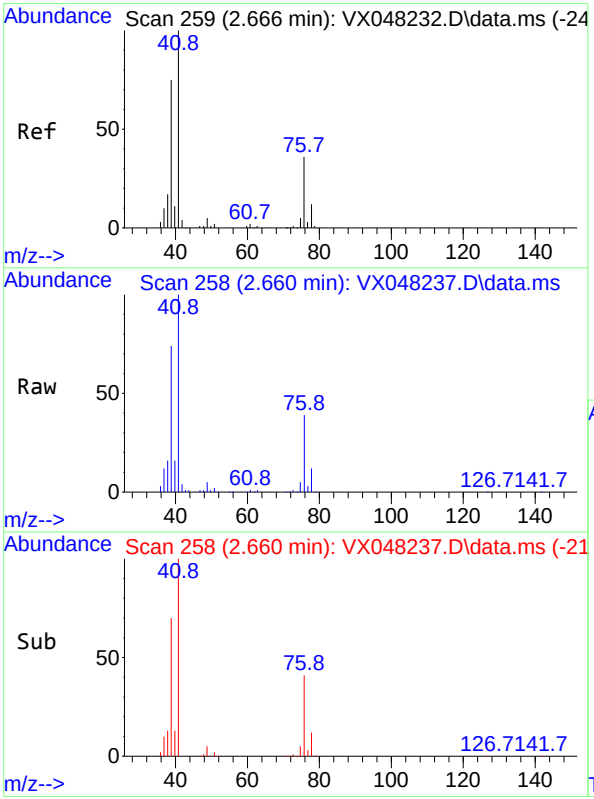
#13
Acrolein
Concen: 249.473 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 56 Resp: 51257

Ion	Ratio	Lower	Upper
56	100		
55	71.7	56.1	84.1

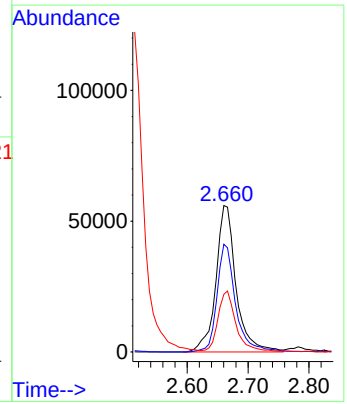


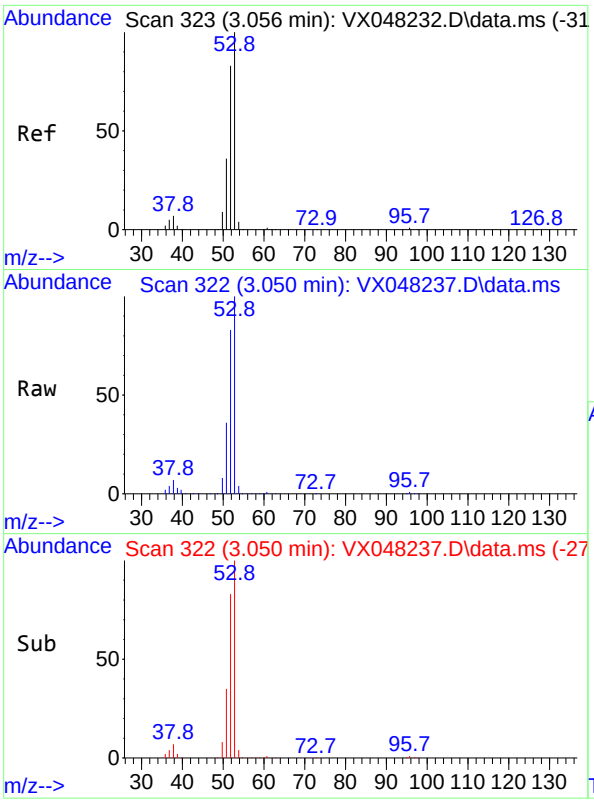


#14
Allyl chloride
Concen: 51.099 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 41 Resp: 128896

Ion	Ratio	Lower	Upper
41	100		
39	68.0	56.0	84.0
76	37.0	27.5	41.3



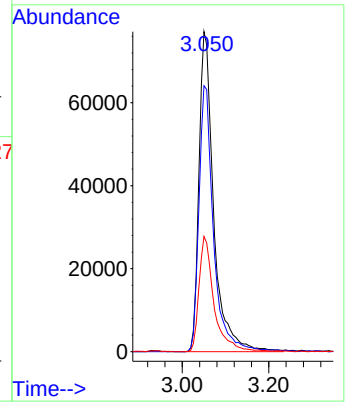


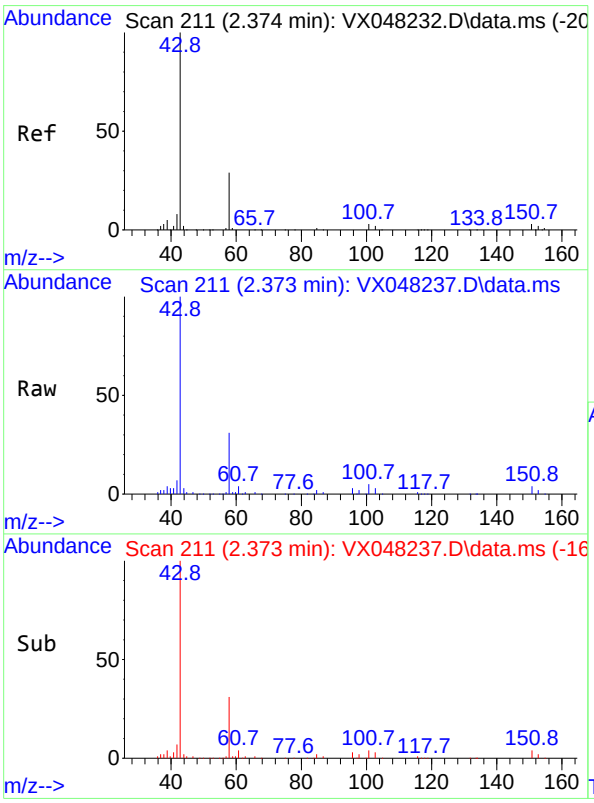
#15
Acrylonitrile
Concen: 250.900 ug/l
RT: 3.050 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 53 Resp: 182260

Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.1	99.1
51	36.8	29.0	43.4

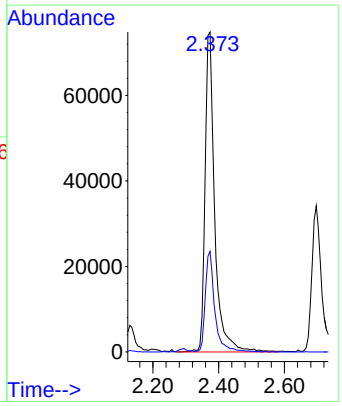


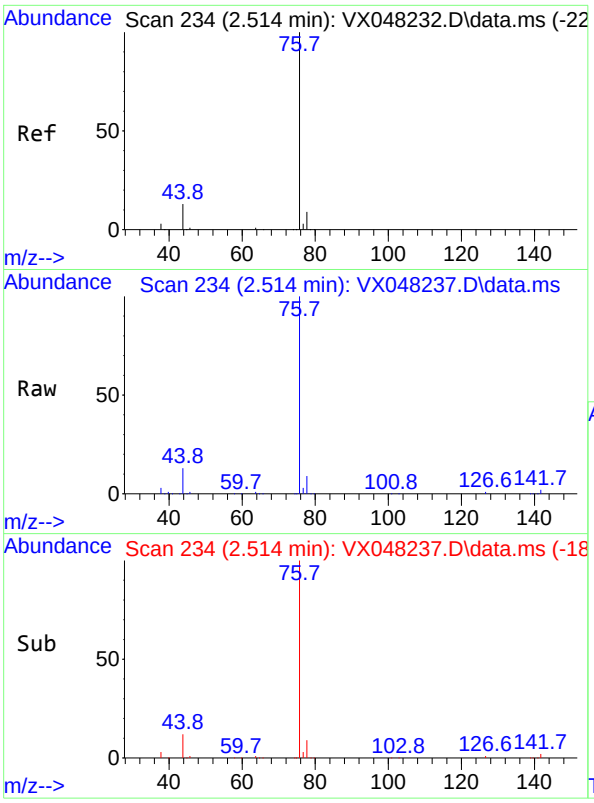


#16
Acetone
Concen: 219.789 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 43 Resp: 152988

Ion	Ratio	Lower	Upper
43	100		
58	31.4	23.4	35.2



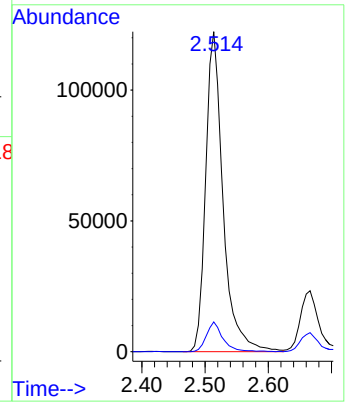


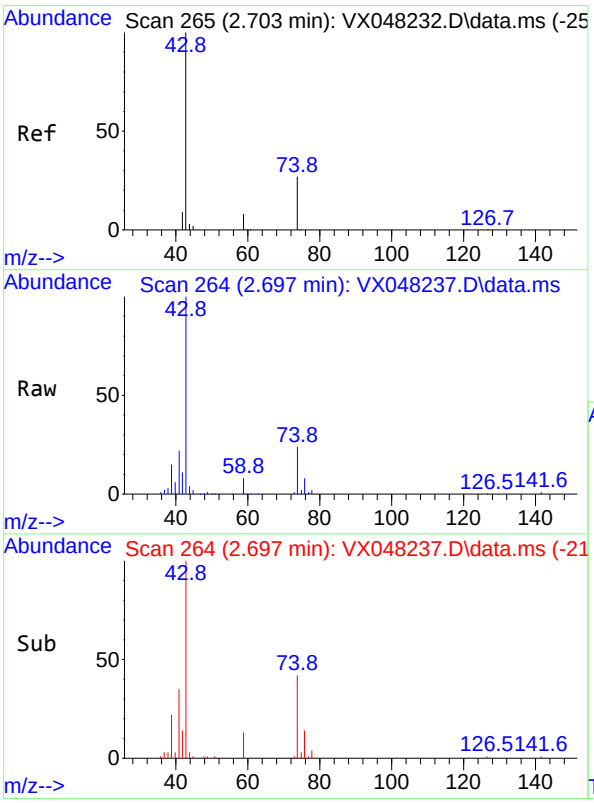
#17
Carbon Disulfide
Concen: 48.792 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 76 Resp: 233630

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.1	10.7

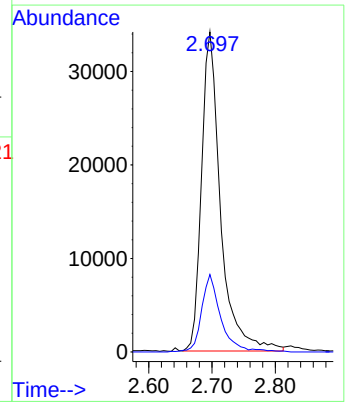


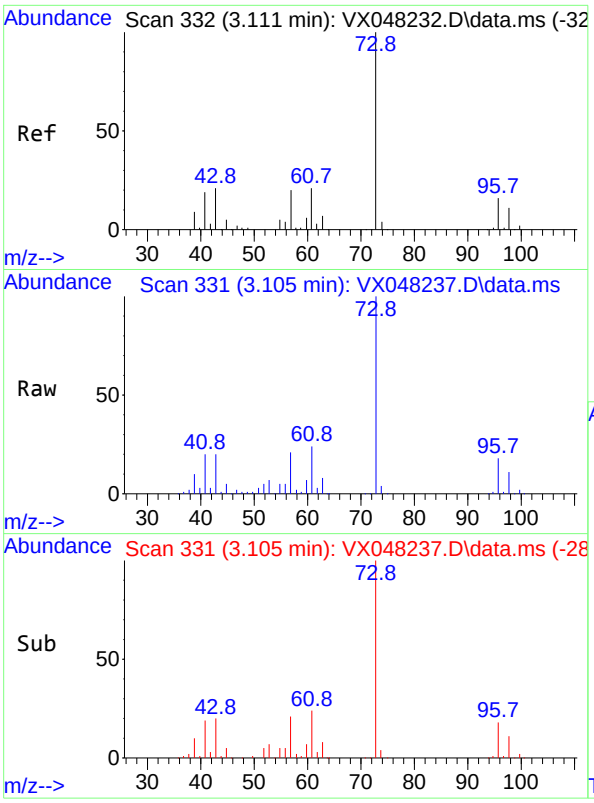


#18
Methyl Acetate
Concen: 49.190 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 43 Resp: 71506

Ion	Ratio	Lower	Upper
43	100		
74	24.7	17.5	26.3



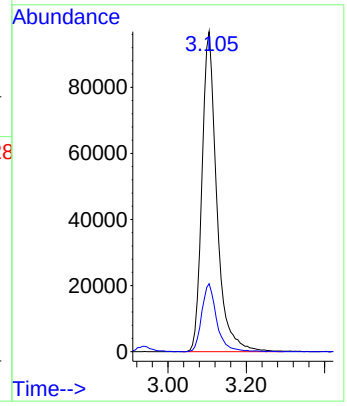


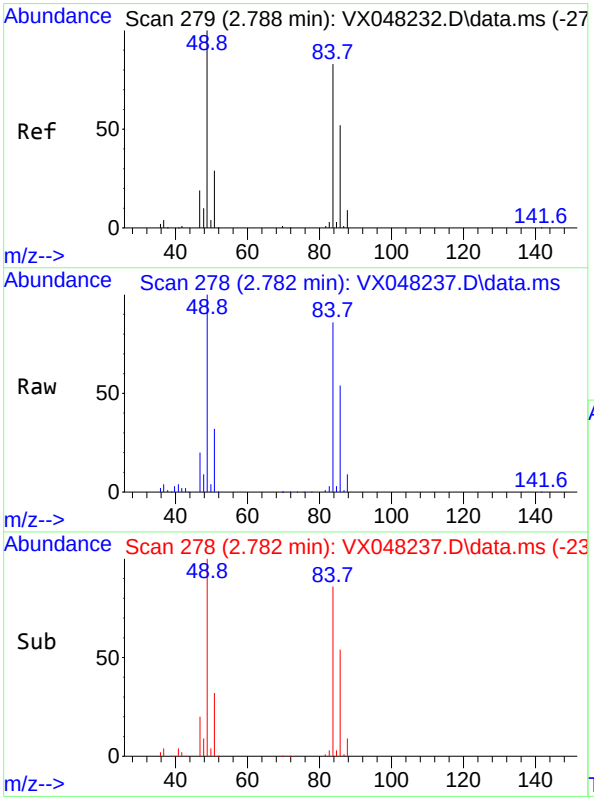
#19
Methyl tert-butyl Ether
Concen: 49.162 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 73 Resp: 254812

Ion	Ratio	Lower	Upper
73	100		
57	21.2	17.7	26.5

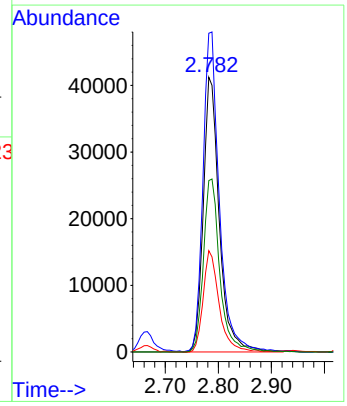


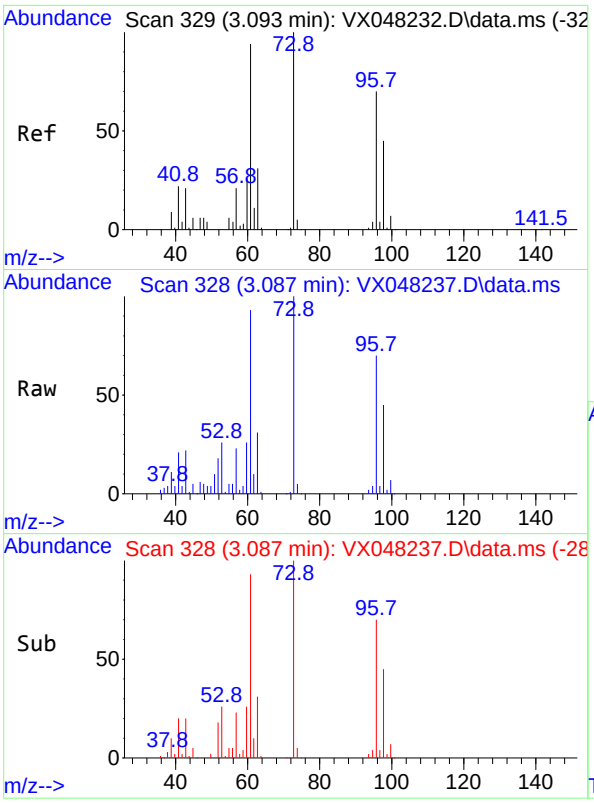


#20
Methylene Chloride
Concen: 51.066 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 84 Resp: 86610

Ion	Ratio	Lower	Upper
84	100		
49	116.0	104.1	156.1
51	36.8	31.3	46.9
86	62.4	51.3	76.9



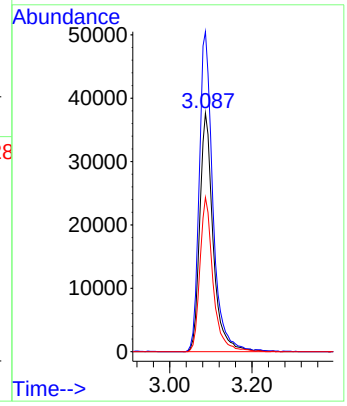


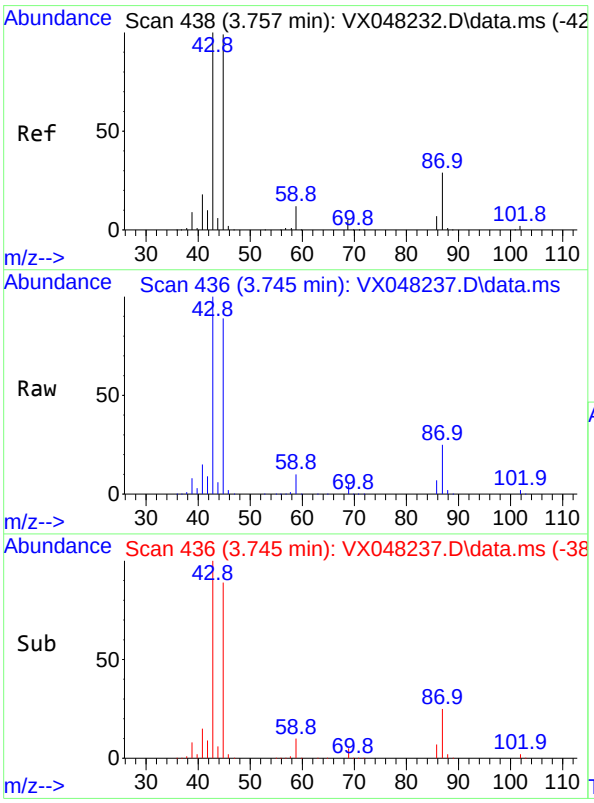
#21
trans-1,2-Dichloroethene
Concen: 50.932 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 96 Resp: 85000

Ion	Ratio	Lower	Upper
96	100		
61	134.2	111.9	167.9
98	64.7	51.2	76.8

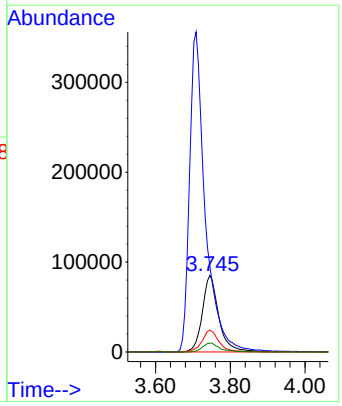


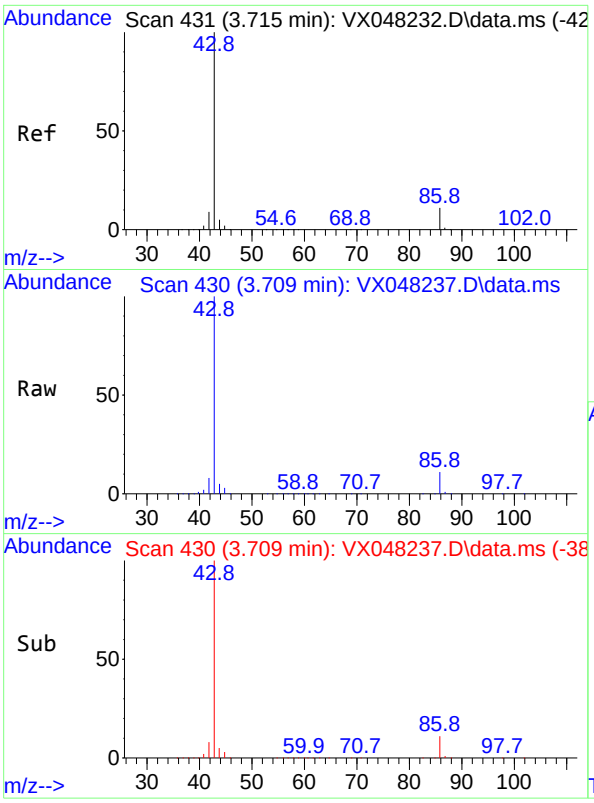


#22
Diisopropyl ether
Concen: 51.665 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 45 Resp: 259934

Ion	Ratio	Lower	Upper
45	100		
43	111.4	89.8	134.8
87	28.3	20.6	31.0
59	11.5	9.1	13.7



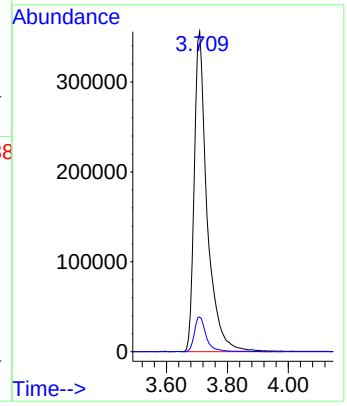


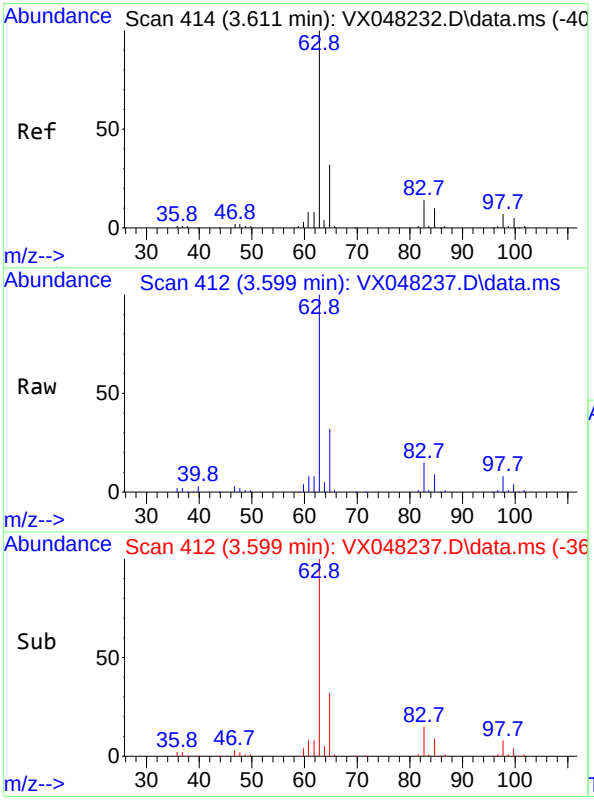
#23
Vinyl Acetate
Concen: 260.168 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 43 Resp: 1045584

Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.9	11.9

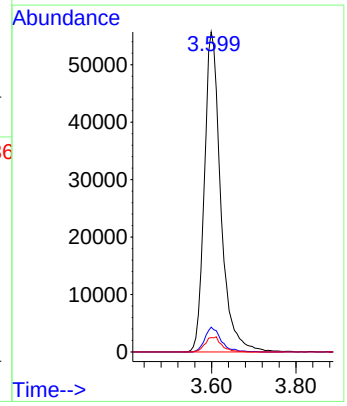


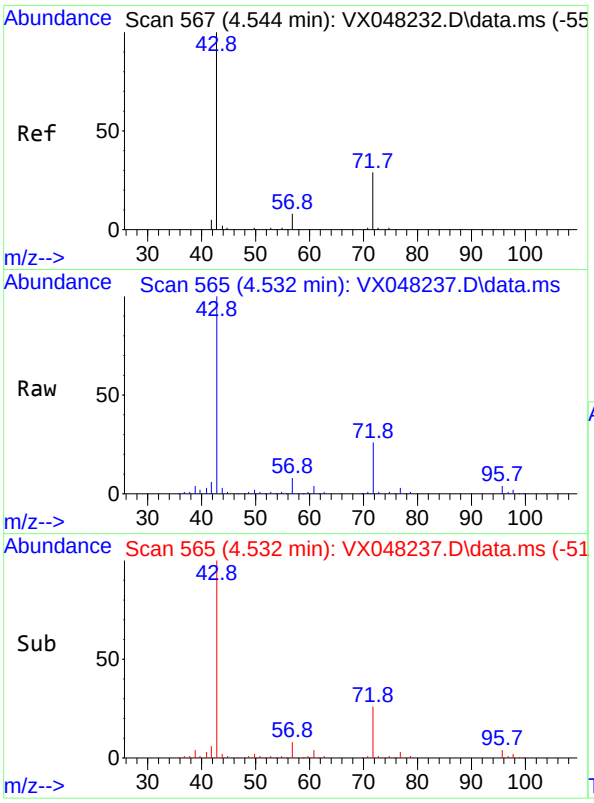


#24
1,1-Dichloroethane
Concen: 49.490 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 63 Resp: 150557

Ion	Ratio	Lower	Upper
63	100		
98	7.7	3.5	10.6
100	4.5	2.1	6.3



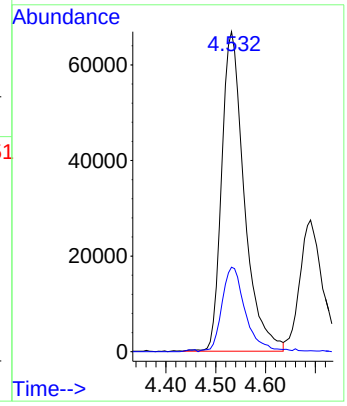


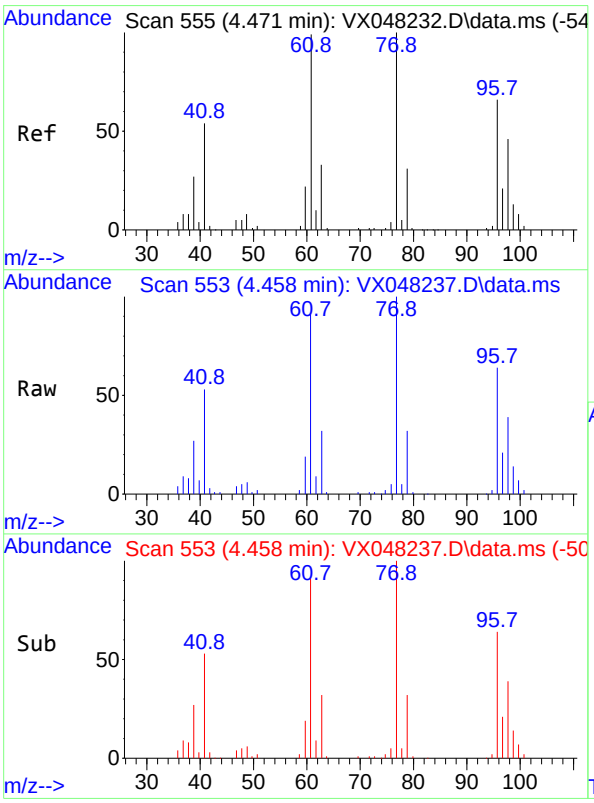
#25
2-Butanone
Concen: 238.354 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 43 Resp: 209999

Ion	Ratio	Lower	Upper
43	100		
72	26.3	19.9	29.9

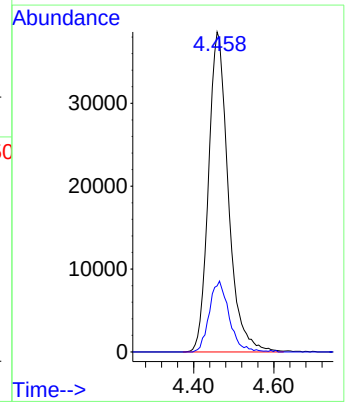


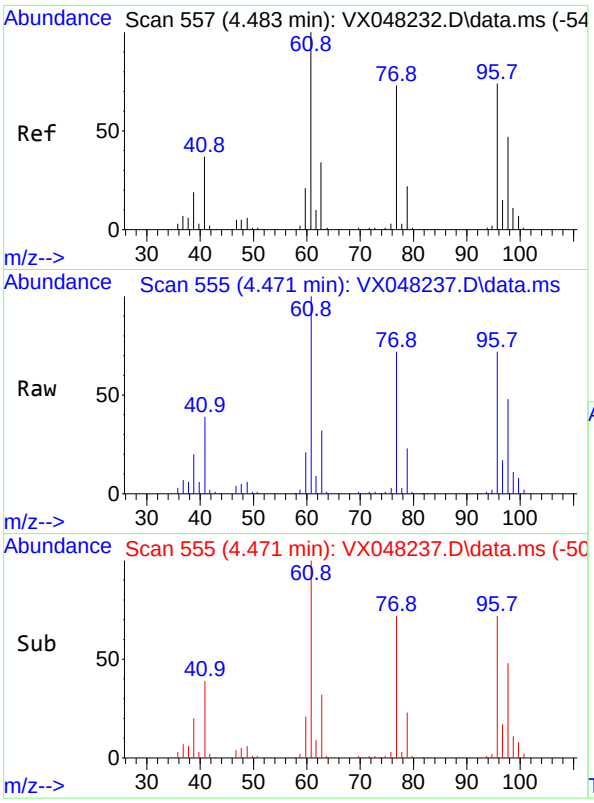


#26
2,2-Dichloropropane
Concen: 48.230 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 77 Resp: 132433

Ion	Ratio	Lower	Upper
77	100		
97	22.1	11.1	33.3



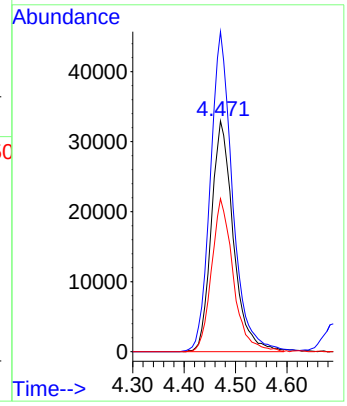


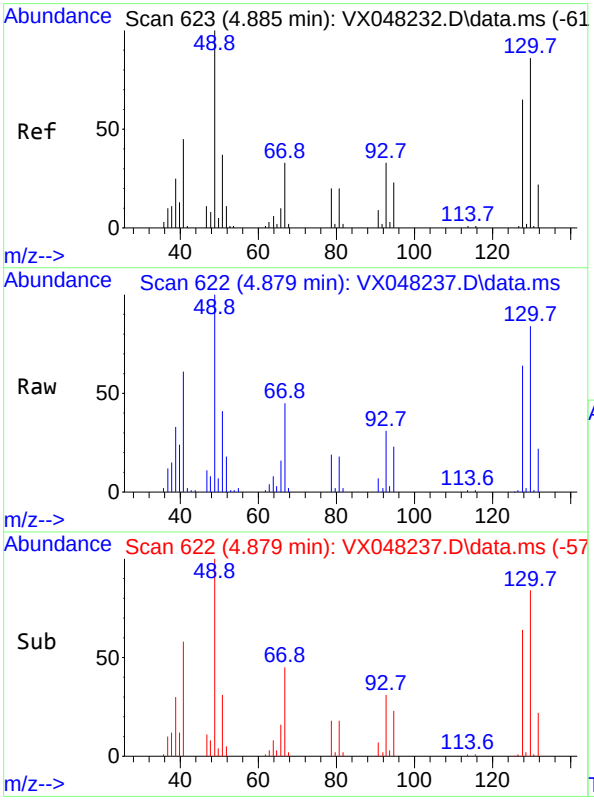
#27
cis-1,2-Dichloroethene
Concen: 50.350 ug/l
RT: 4.471 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 96 Resp: 98066

Ion	Ratio	Lower	Upper
96	100		
61	140.3	0.0	294.2
98	65.2	0.0	128.4

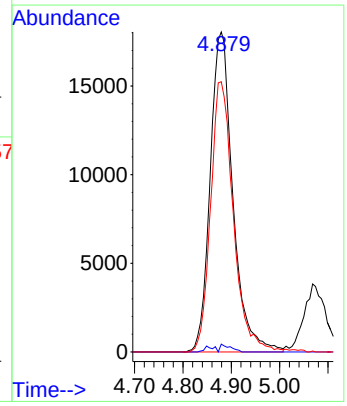


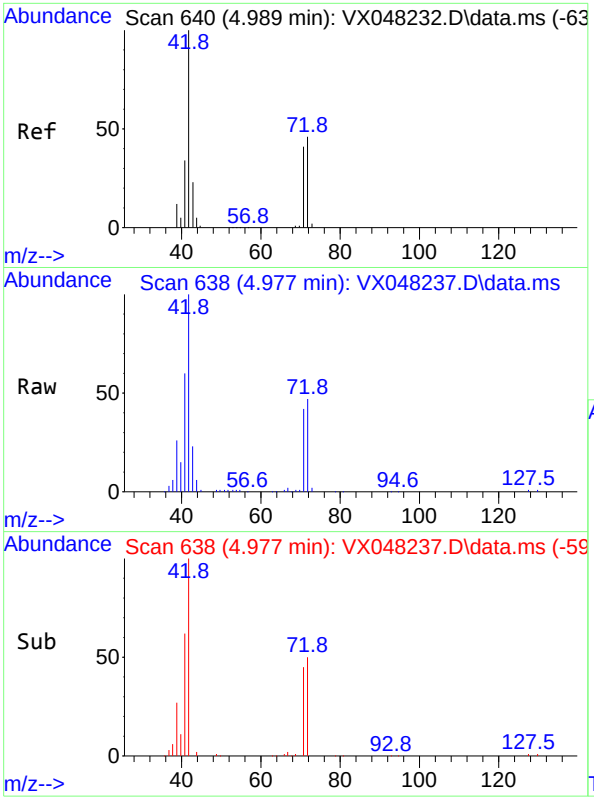


#28
Bromochloromethane
Concen: 46.587 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 49 Resp: 58764

Ion	Ratio	Lower	Upper
49	100		
129	1.1	0.0	4.4
130	85.1	59.3	88.9



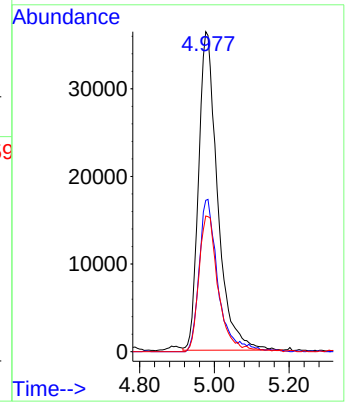


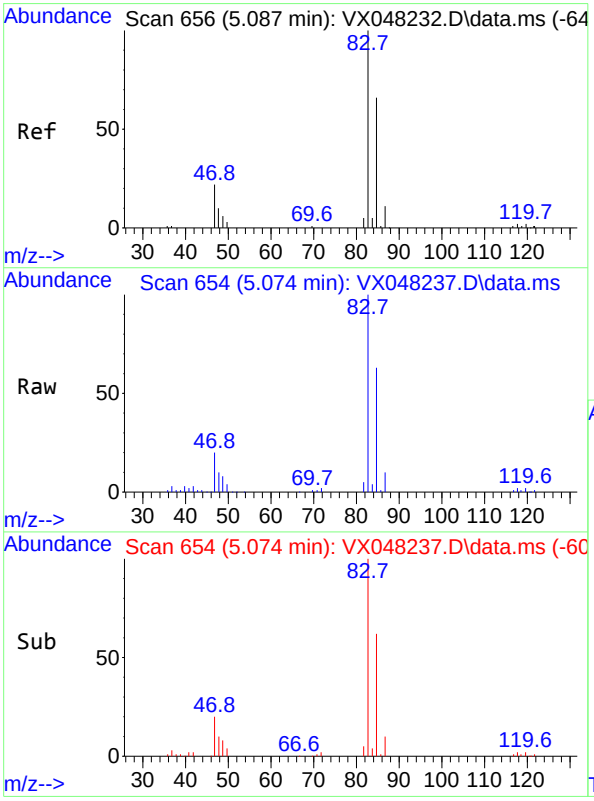
#29
Tetrahydrofuran
Concen: 242.572 ug/l
RT: 4.977 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 42 Resp: 127995

Ion	Ratio	Lower	Upper
42	100		
72	47.4	35.3	52.9
71	43.8	32.2	48.4

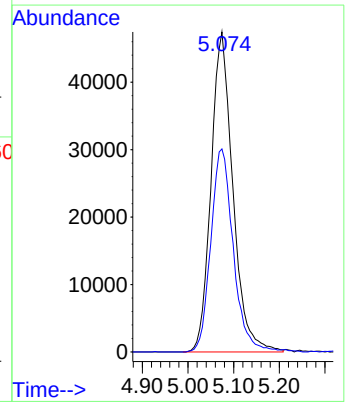


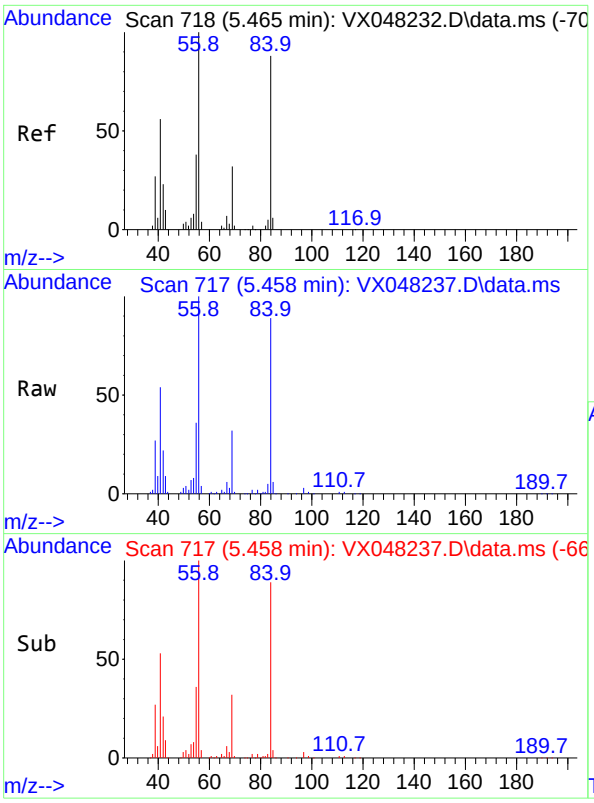


#30
Chloroform
Concen: 48.427 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 83 Resp: 157397

Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.1	75.1



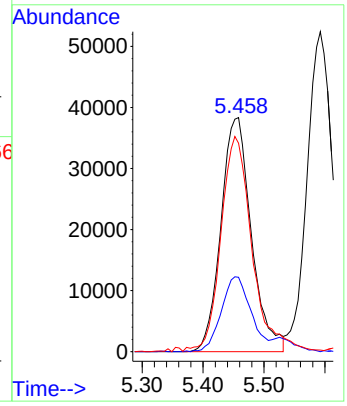


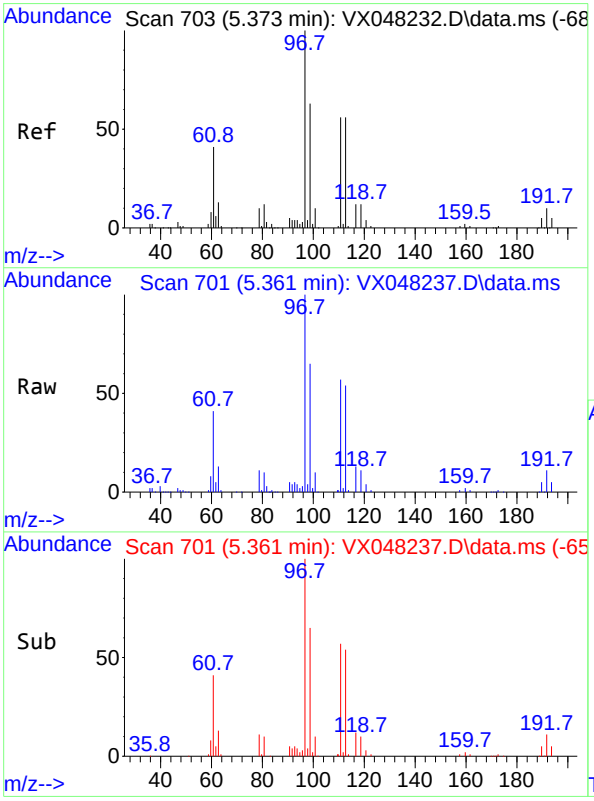
#31
Cyclohexane
Concen: 52.646 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 56 Resp: 132594

Ion	Ratio	Lower	Upper
56	100		
69	31.8	23.0	34.6
84	88.9	64.6	97.0

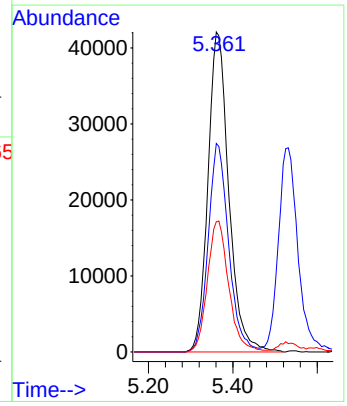


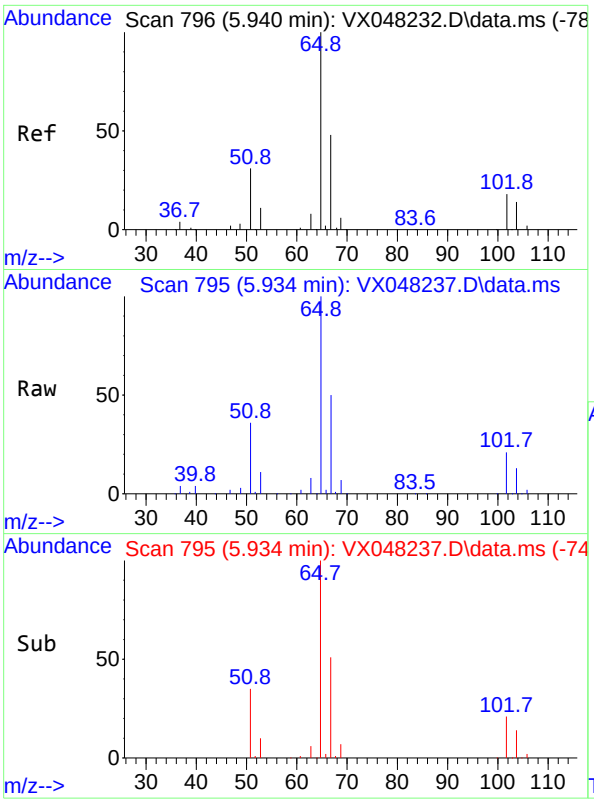


#32
1,1,1-Trichloroethane
Concen: 48.309 ug/l
RT: 5.361 min Scan# 701
Delta R.T. -0.012 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 97 Resp: 144706

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.7	77.5
61	41.8	34.8	52.2



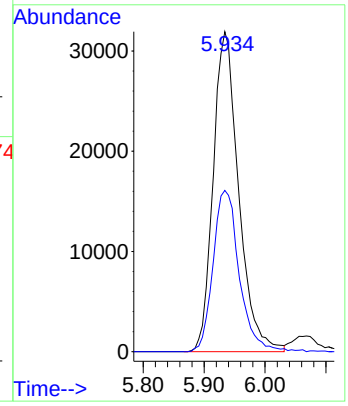


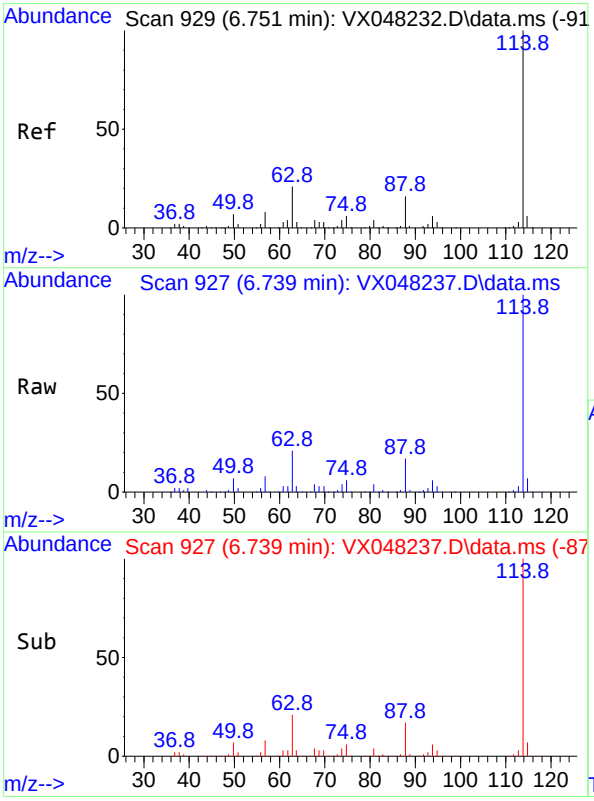
#33
1,2-Dichloroethane-d4
Concen: 45.687 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 65 Resp: 92700

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	105.0

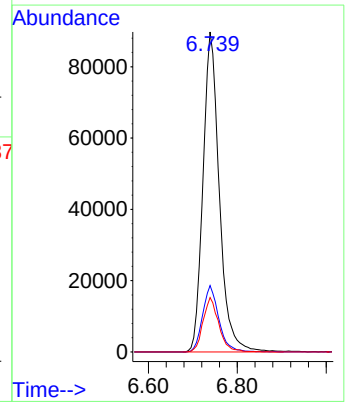


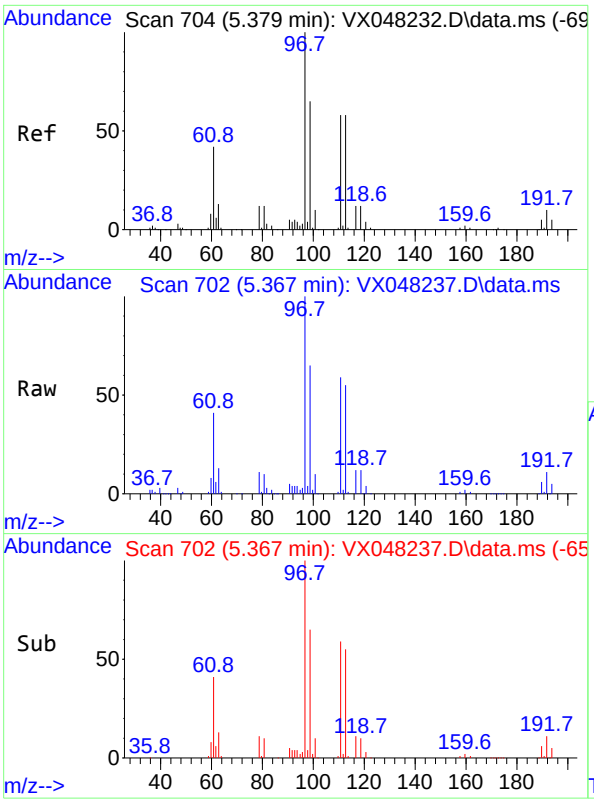


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 927
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:114 Resp: 229650

Ion	Ratio	Lower	Upper
114	100		
63	23.6	0.0	43.2
88	17.0	0.0	33.6



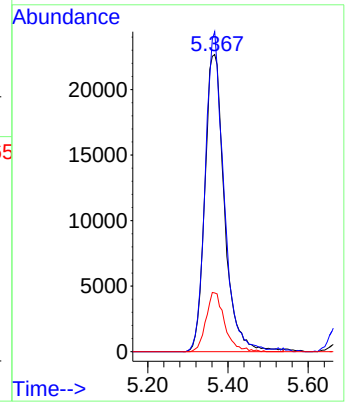


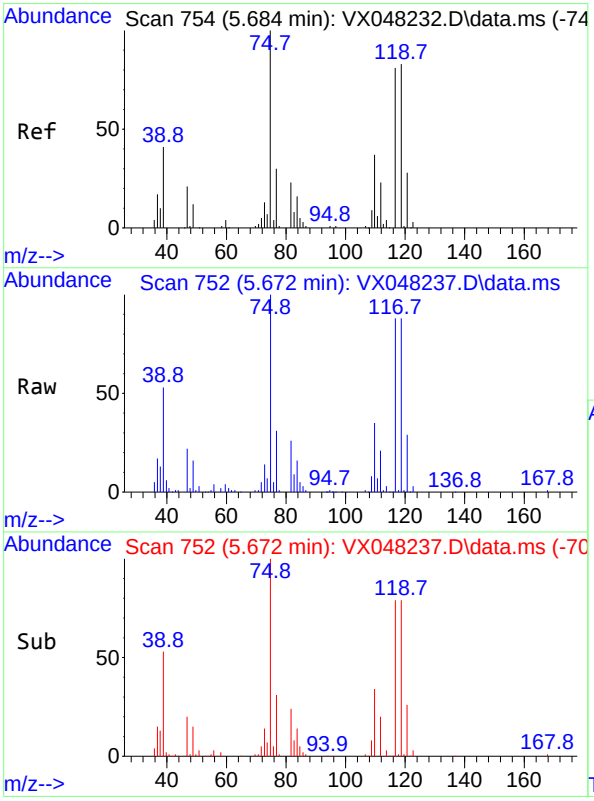
#35
Dibromofluoromethane
Concen: 48.951 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion:113 Resp: 76746

Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.2	123.4
192	19.0	15.1	22.7

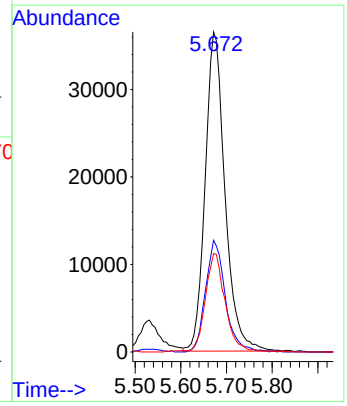


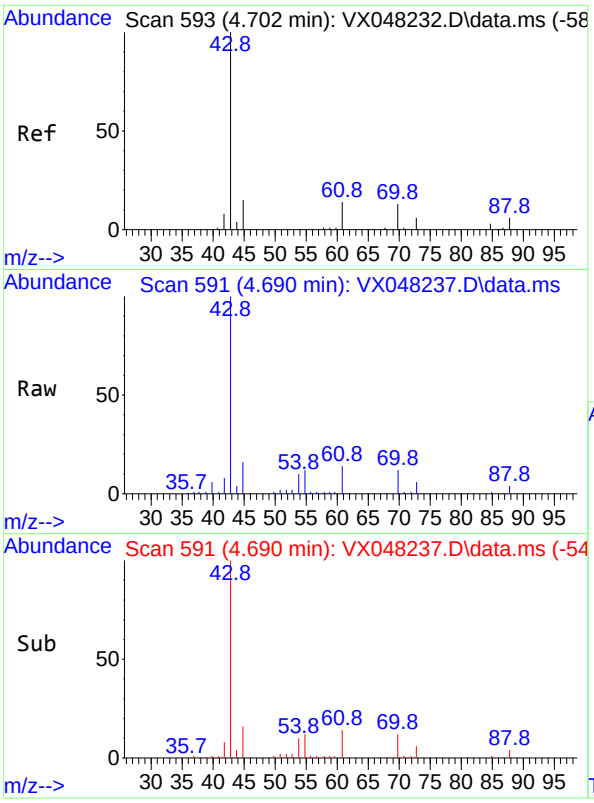


#36
1,1-Dichloropropene
Concen: 49.344 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 75 Resp: 109957

Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.7	53.1
77	30.4	24.3	36.5



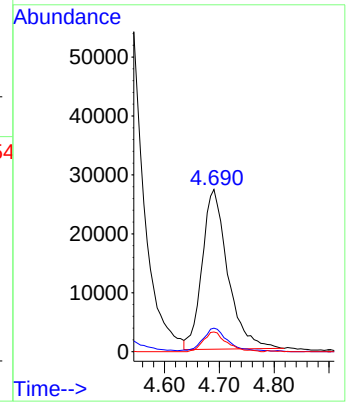


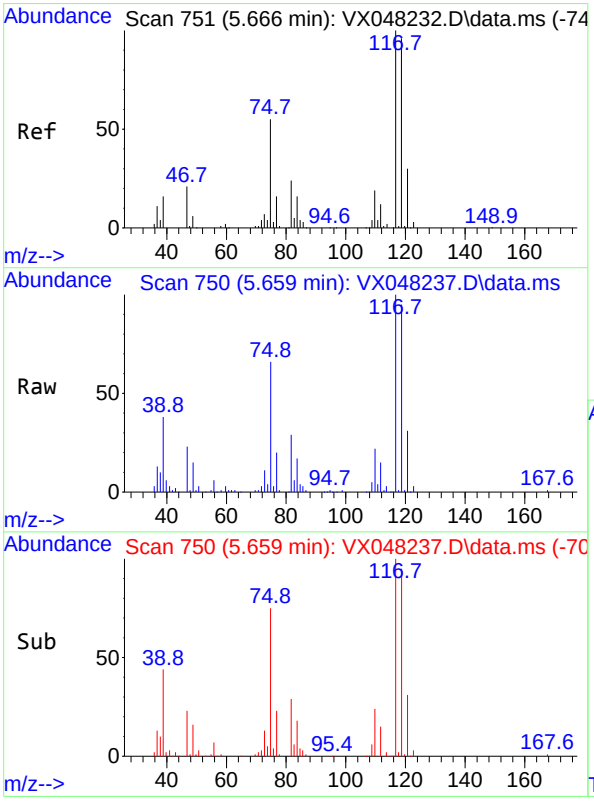
#37
Ethyl Acetate
Concen: 47.684 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 43 Resp: 88074

Ion	Ratio	Lower	Upper
43	100		
61	13.4	10.6	15.8
70	11.2	7.8	11.6

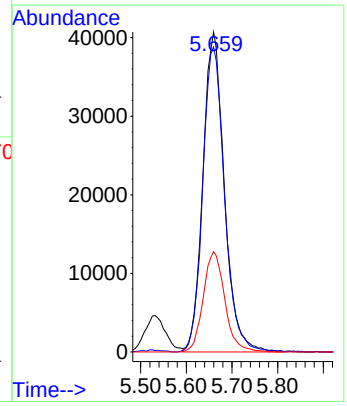


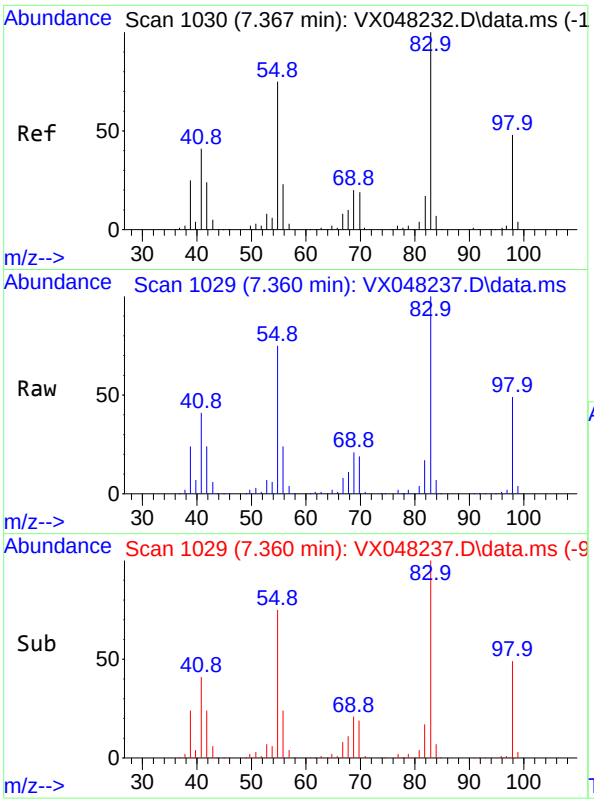


#38
Carbon Tetrachloride
Concen: 48.228 ug/l
RT: 5.659 min Scan# 750
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:117 Resp: 132590

Ion	Ratio	Lower	Upper
117	100		
119	95.1	77.2	115.8
121	31.4	24.8	37.2



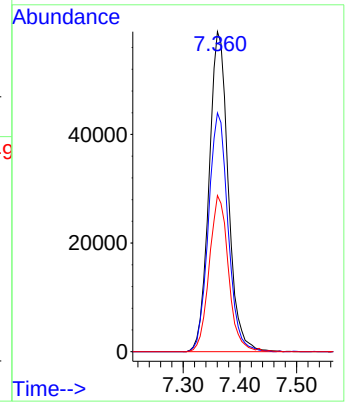


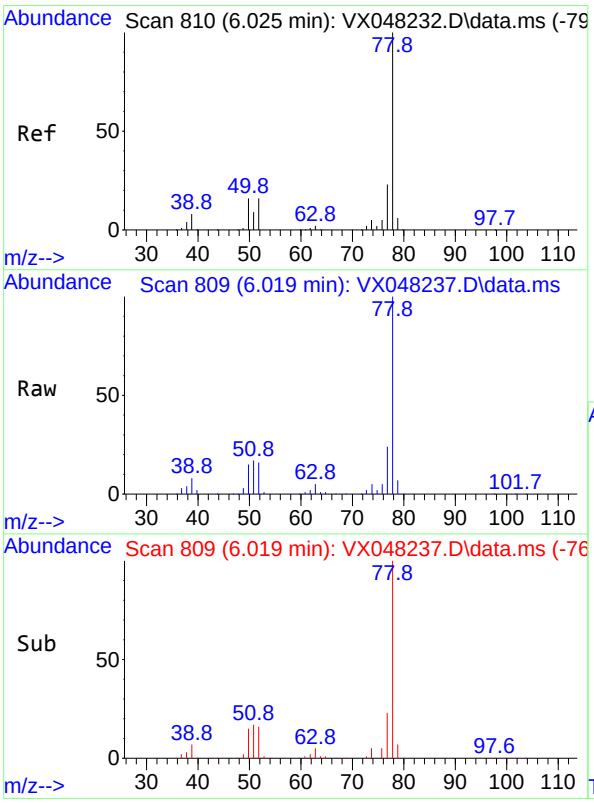
#39
Methylcyclohexane
Concen: 52.670 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 83 Resp: 138611

Ion	Ratio	Lower	Upper
83	100		
55	74.6	66.2	99.2
98	48.8	38.9	58.3

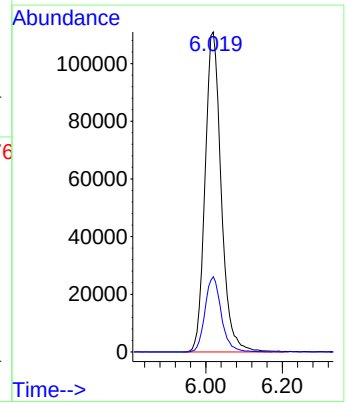


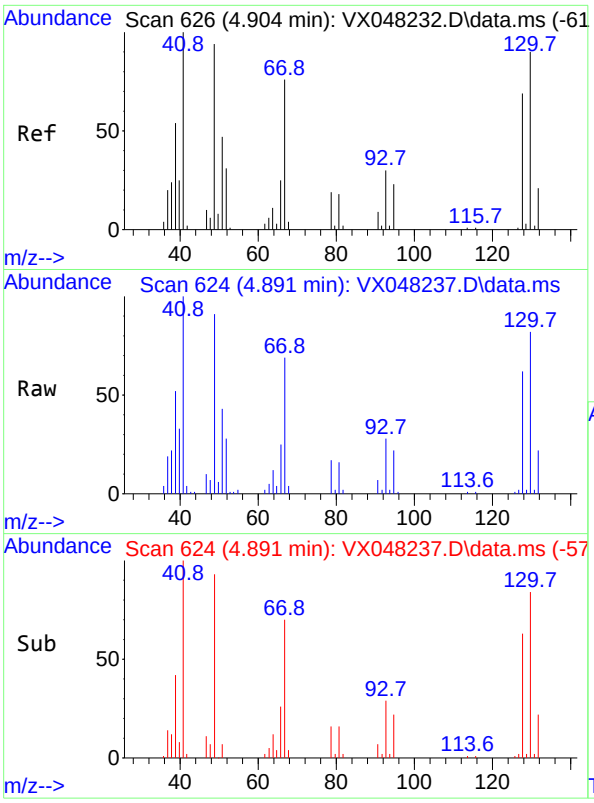


#40
Benzene
Concen: 50.241 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 78 Resp: 325041

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.3	28.9



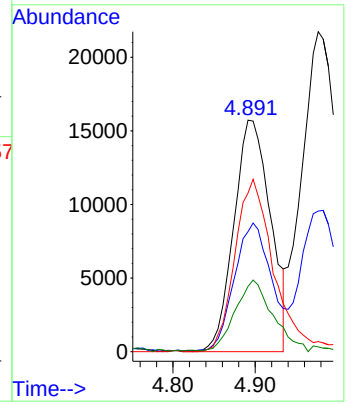


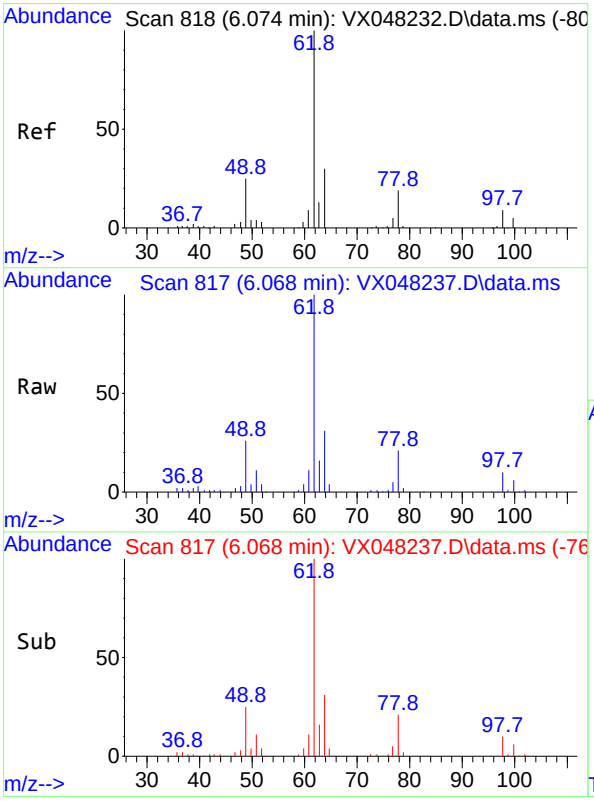
#41
Methacrylonitrile
Concen: 50.358 ug/l
RT: 4.891 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 41 Resp: 48846

Ion	Ratio	Lower	Upper
41	100		
39	57.6	44.0	66.0
67	80.7	58.7	88.1
52	31.8	25.9	38.9

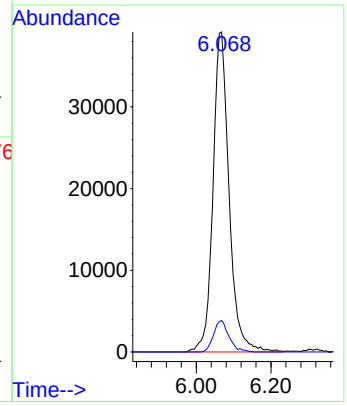


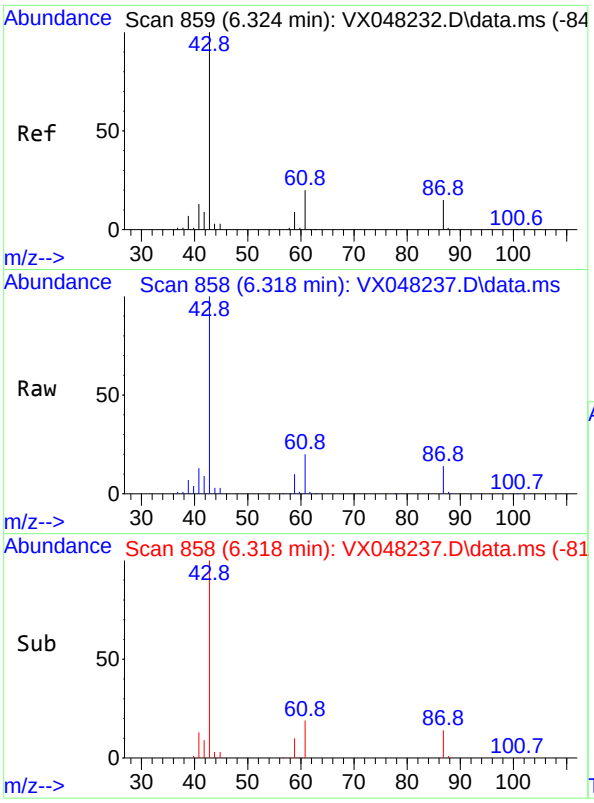


#42
1,2-Dichloroethane
Concen: 48.963 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 62 Resp: 116893

Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	17.2



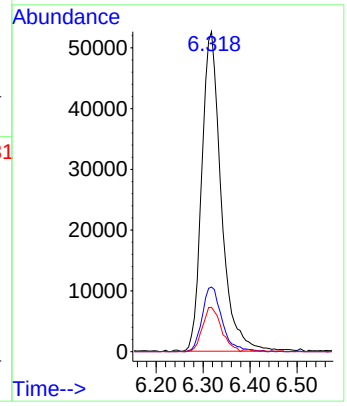


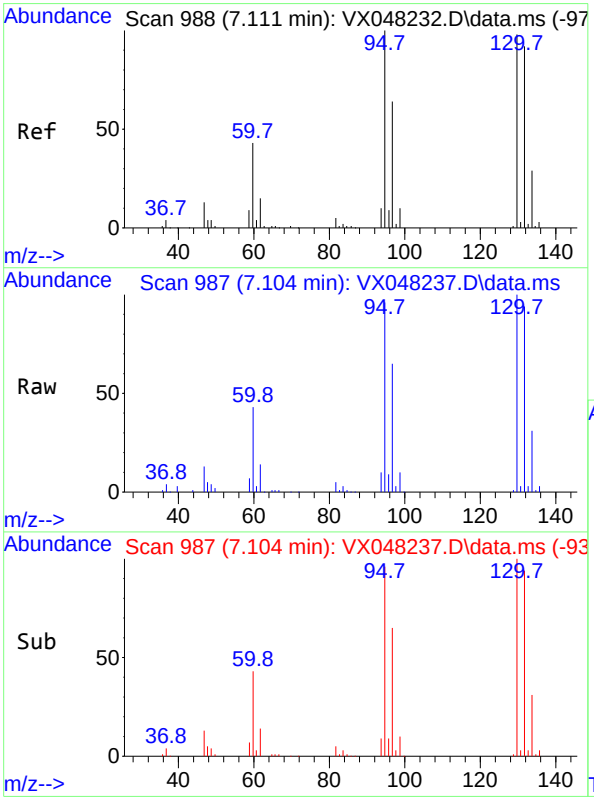
#43
Isopropyl Acetate
Concen: 49.816 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 43 Resp: 151140

Ion	Ratio	Lower	Upper
43	100		
61	20.7	14.9	22.3
87	13.5	9.4	14.2

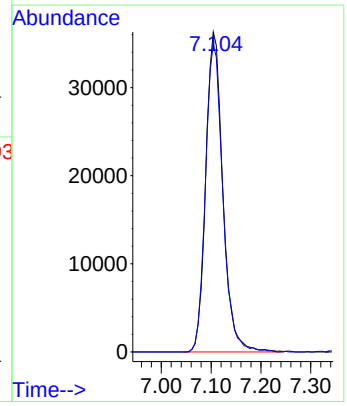


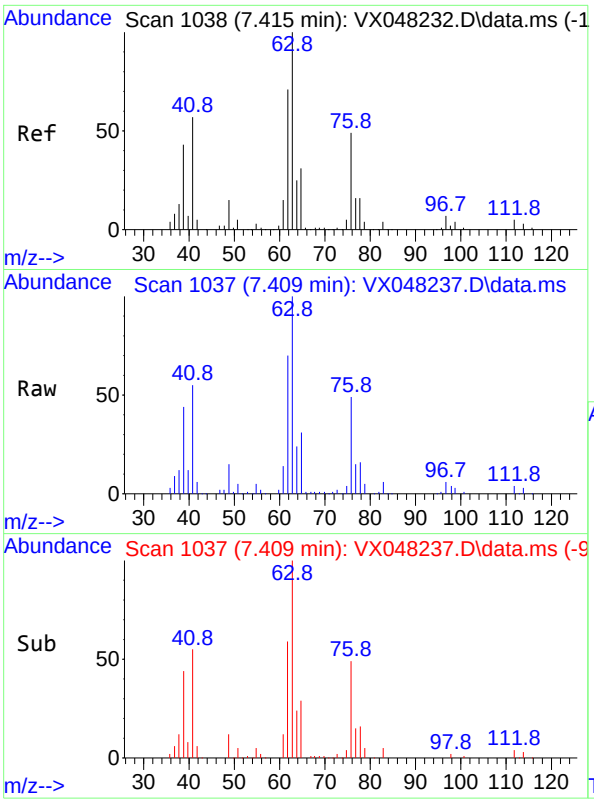


#44
Trichloroethene
Concen: 50.582 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:130 Resp: 86410

Ion	Ratio	Lower	Upper
130	100		
95	96.2	0.0	200.6



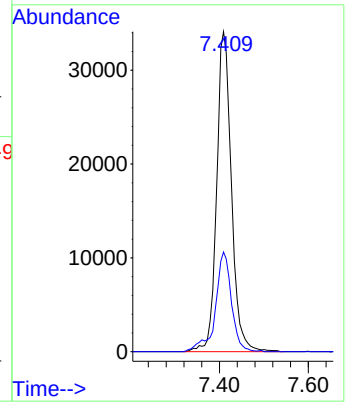


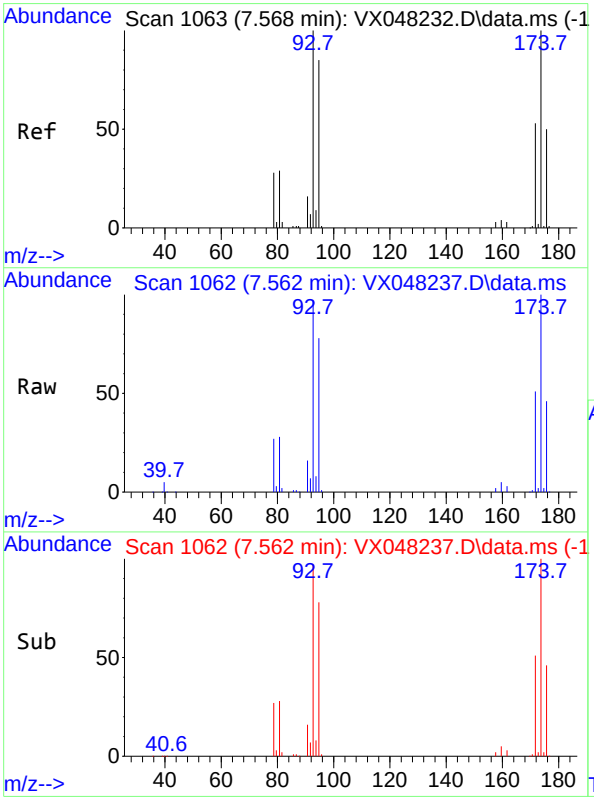
#45
1,2-Dichloropropane
Concen: 50.994 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 63 Resp: 78439

Ion	Ratio	Lower	Upper
63	100		
65	31.1	24.1	36.1

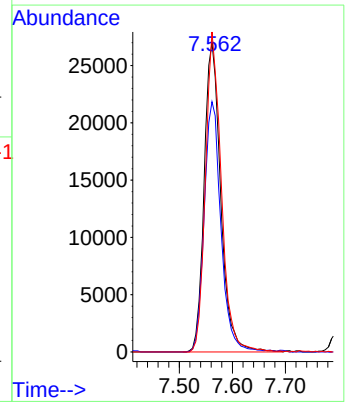


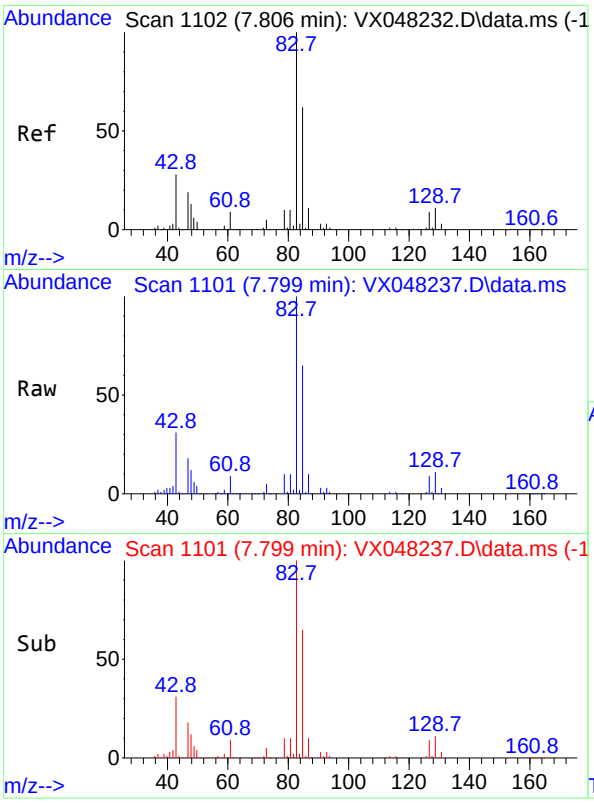


#46
Dibromomethane
Concen: 48.913 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 93 Resp: 58616

Ion	Ratio	Lower	Upper
93	100		
95	81.4	65.9	98.9
174	99.2	71.7	107.5



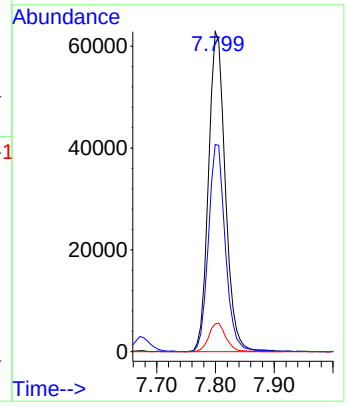


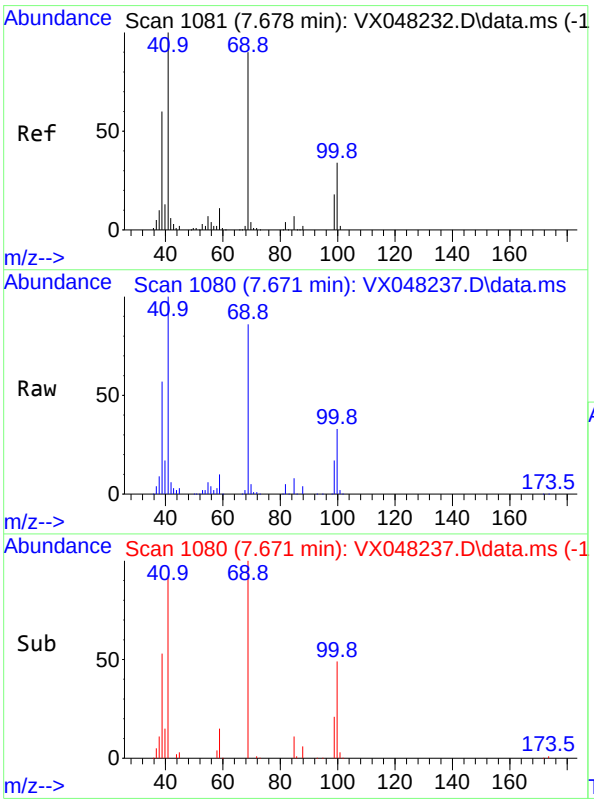
#47
Bromodichloromethane
Concen: 48.459 ug/l
RT: 7.799 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 83 Resp: 125388

Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.2	78.4
127	8.7	7.3	10.9

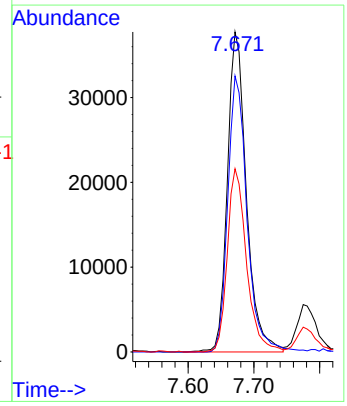


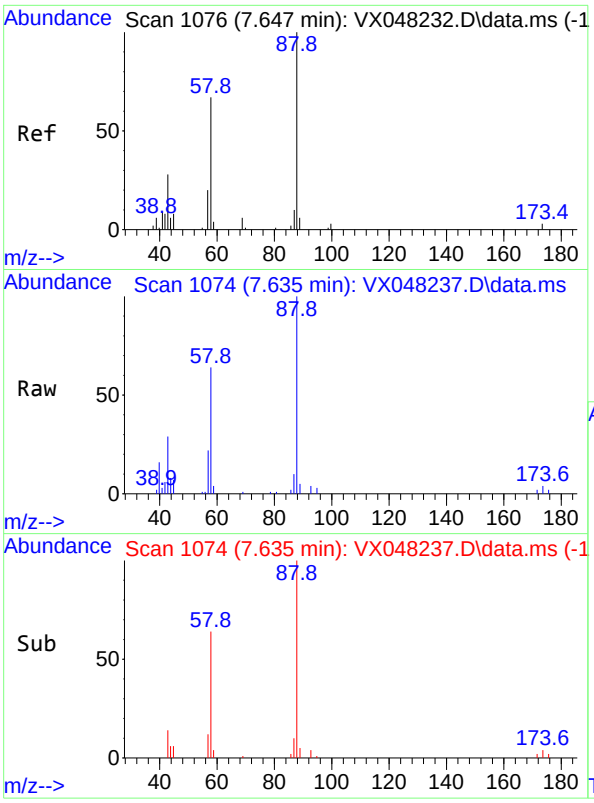


#48
Methyl methacrylate
Concen: 49.519 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 41 Resp: 75812

Ion	Ratio	Lower	Upper
41	100		
69	87.7	63.4	95.0
39	58.0	47.1	70.7



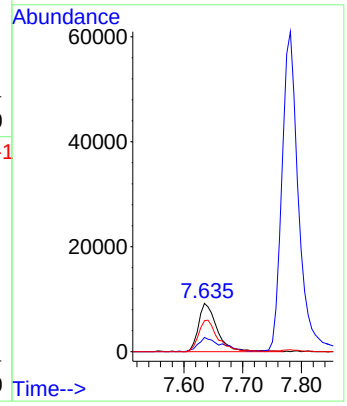


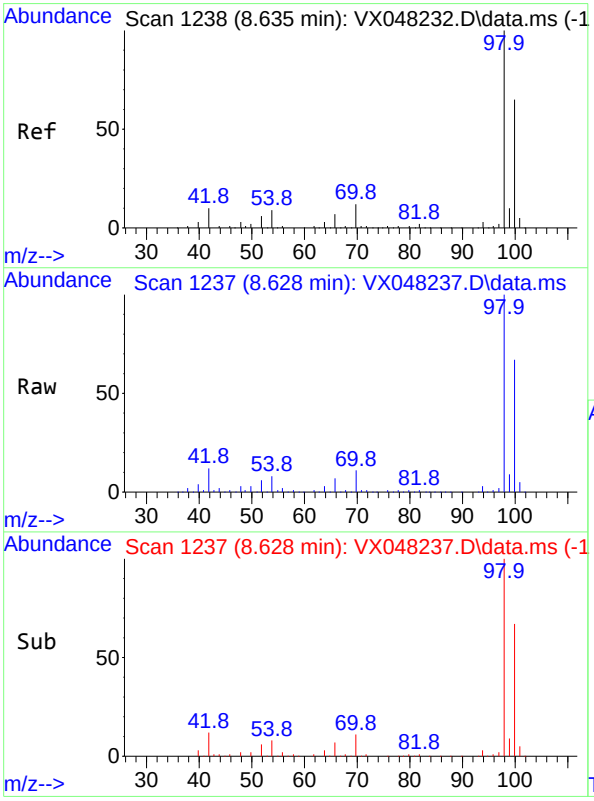
#49
1,4-Dioxane
Concen: 1000.197 ug/l
RT: 7.635 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 88 Resp: 20230

Ion	Ratio	Lower	Upper
88	100		
43	37.8	35.0	52.4
58	67.9	61.9	92.9

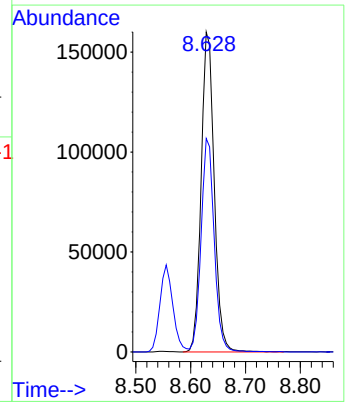


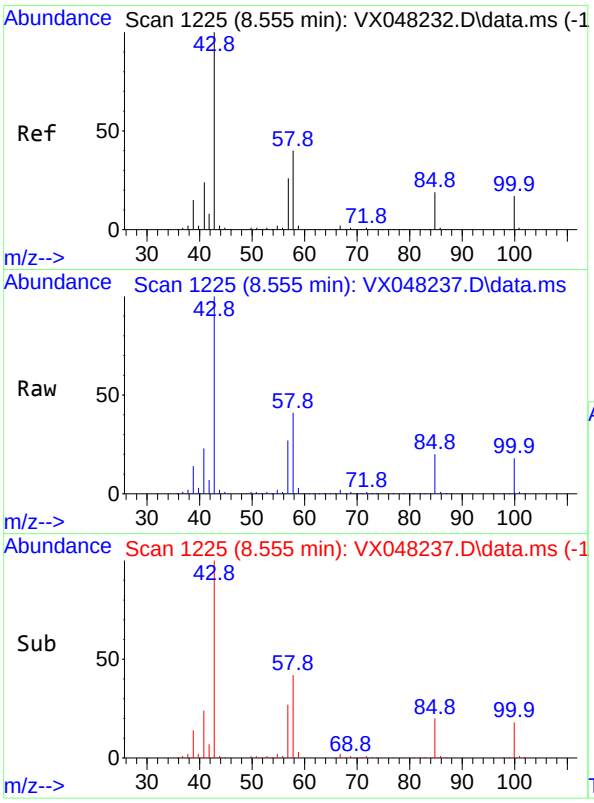


#50
Toluene-d8
Concen: 48.386 ug/l
RT: 8.628 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 98 Resp: 265898

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.0	79.4



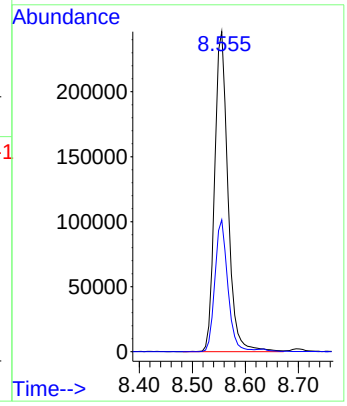


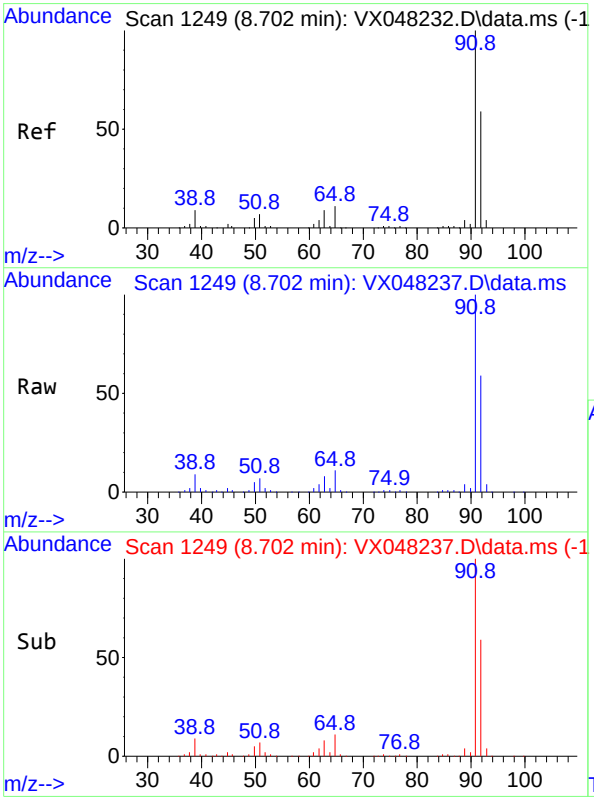
#51
4-Methyl-2-Pentanone
Concen: 244.897 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 43 Resp: 428393

Ion	Ratio	Lower	Upper
43	100		
58	39.9	29.5	44.3

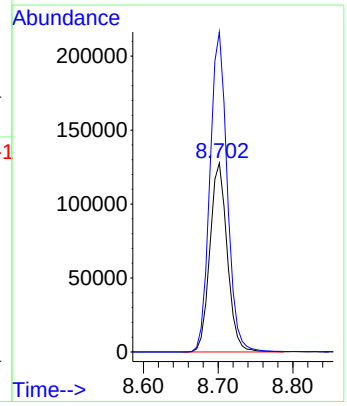


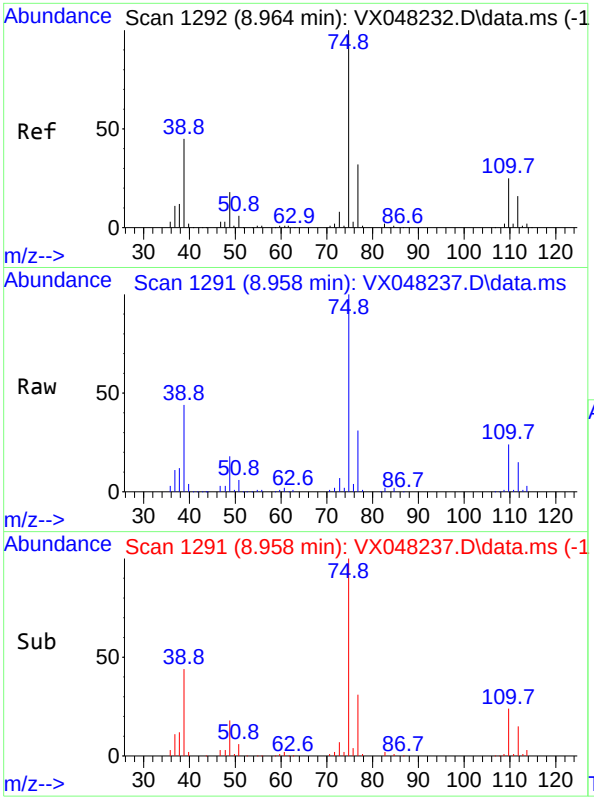


#52
Toluene
Concen: 50.088 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 92 Resp: 205867

Ion	Ratio	Lower	Upper
92	100		
91	169.0	136.1	204.1



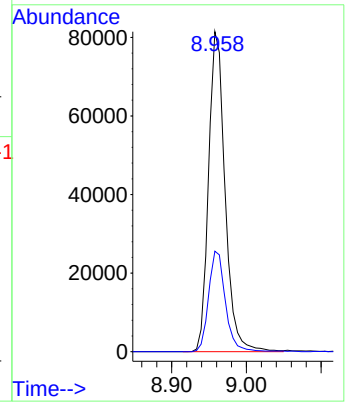


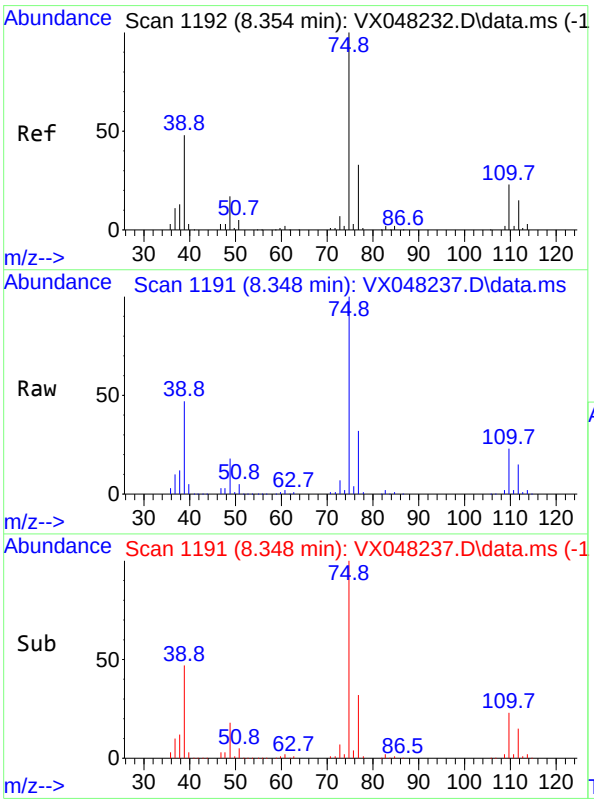
#53
t-1,3-Dichloropropene
Concen: 50.004 ug/l
RT: 8.958 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 75 Resp: 124683

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.0	37.6

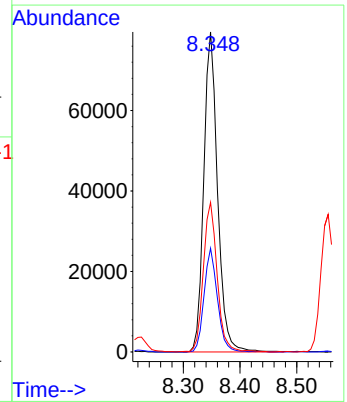


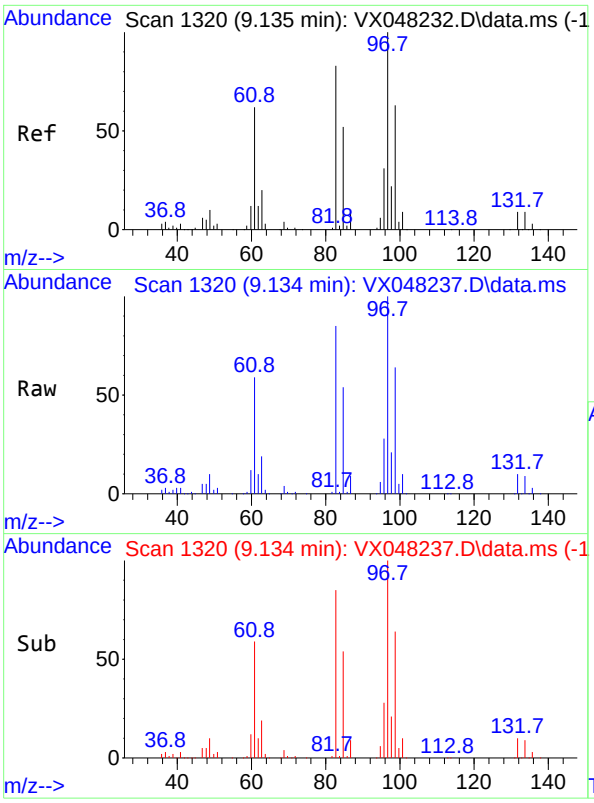


#54
cis-1,3-Dichloropropene
Concen: 49.944 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 75 Resp: 134360

Ion	Ratio	Lower	Upper
75	100		
77	32.4	24.9	37.3
39	46.7	42.6	64.0



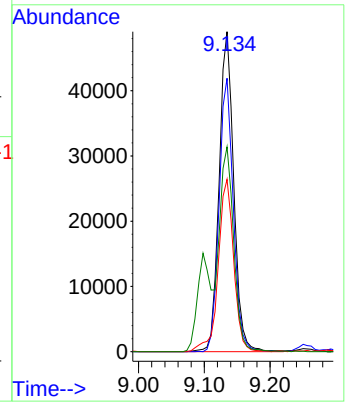


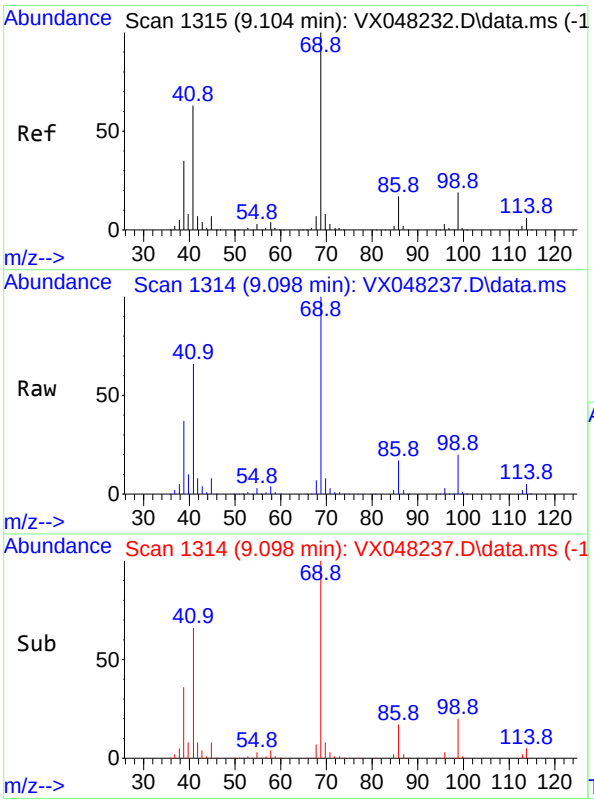
#55
1,1,2-Trichloroethane
Concen: 49.597 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 97 Resp: 75808

Ion	Ratio	Lower	Upper
97	100		
83	85.5	70.6	105.8
85	53.9	45.0	67.6
99	64.0	50.9	76.3

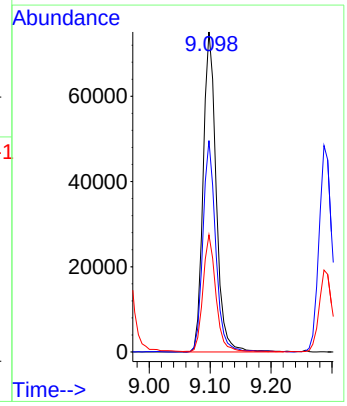


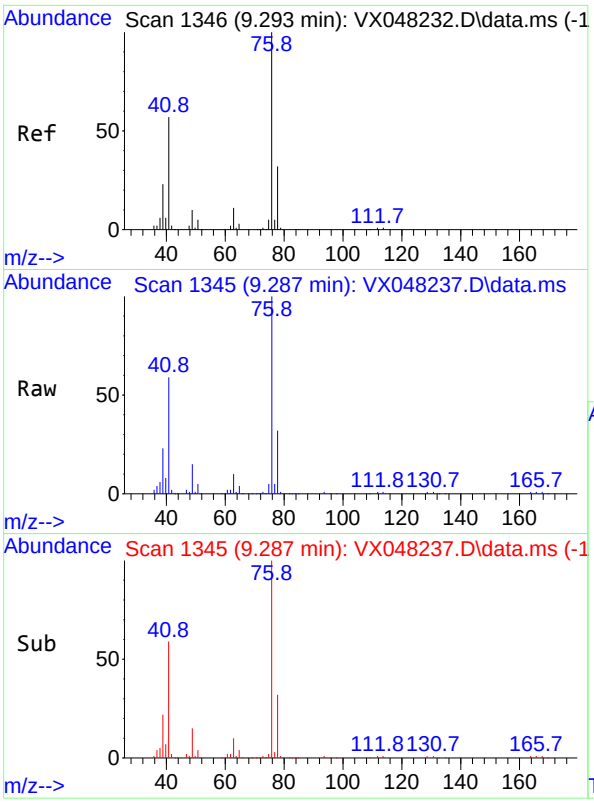


#56
Ethyl methacrylate
Concen: 49.964 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 69 Resp: 111702

Ion	Ratio	Lower	Upper
69	100		
41	65.1	56.0	84.0
39	36.0	31.6	47.4



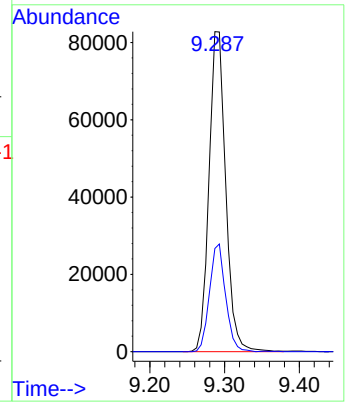


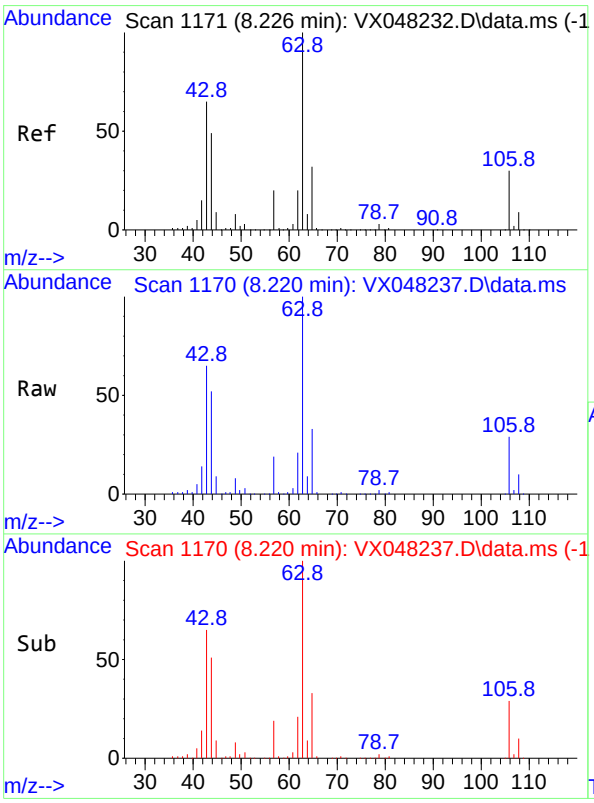
#57
1,3-Dichloropropane
Concen: 49.226 ug/l
RT: 9.287 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 76 Resp: 128519

Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.4	38.0

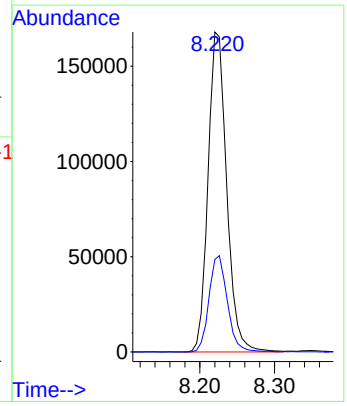


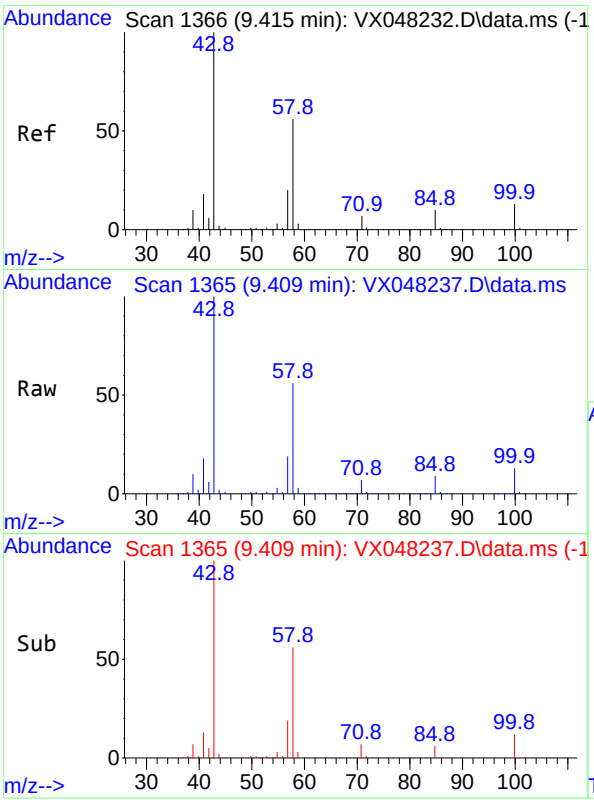


#58
2-Chloroethyl Vinyl ether
Concen: 242.124 ug/l
RT: 8.220 min Scan# 1170
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 63 Resp: 290992

Ion	Ratio	Lower	Upper
63	100		
106	29.6	22.2	33.2



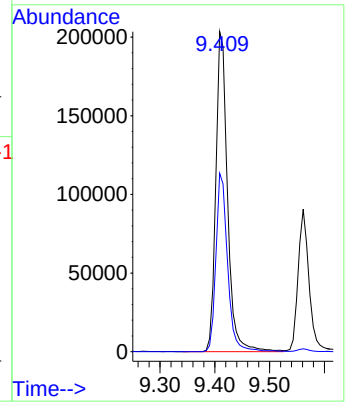


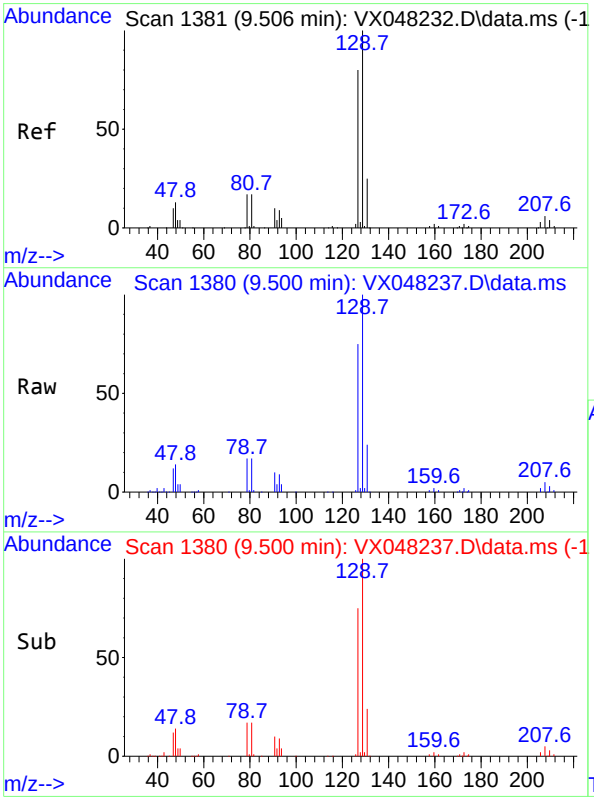
#59
2-Hexanone
Concen: 246.102 ug/l
RT: 9.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 43 Resp: 300183

Ion	Ratio	Lower	Upper
43	100		
58	55.6	26.3	78.8

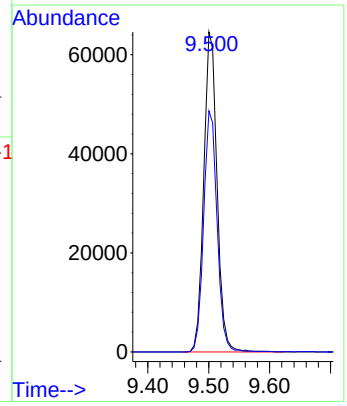


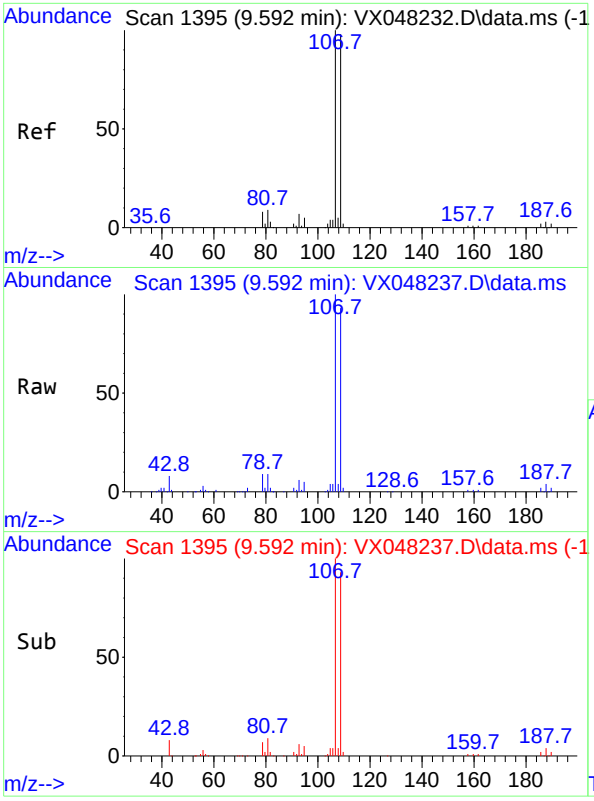


#60
Dibromochloromethane
Concen: 47.530 ug/l
RT: 9.500 min Scan# 1380
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:129 Resp: 97643

Ion	Ratio	Lower	Upper
129	100		
127	76.2	38.6	115.7



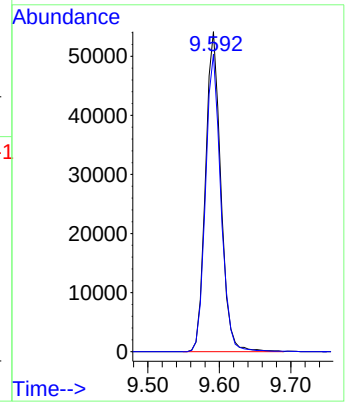


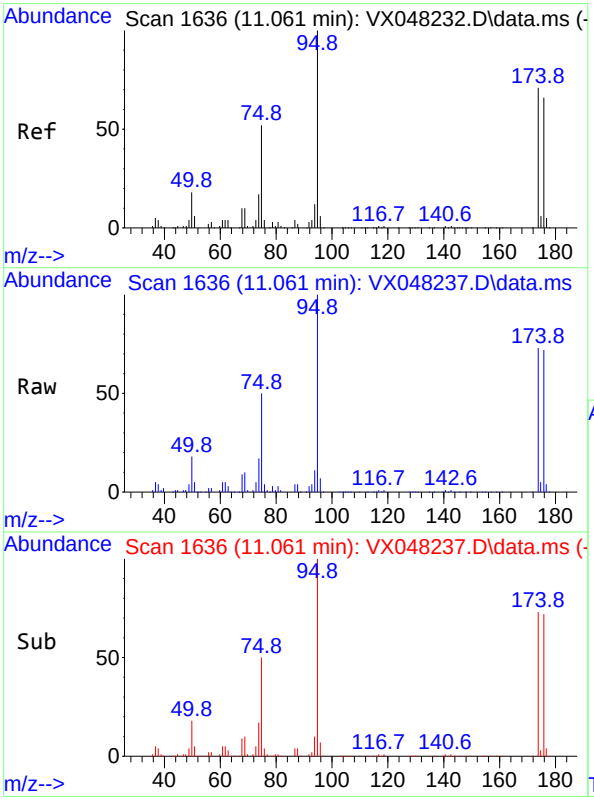
#61
1,2-Dibromoethane
Concen: 49.319 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion:107 Resp: 80363

Ion	Ratio	Lower	Upper
107	100		
109	93.1	77.0	115.4

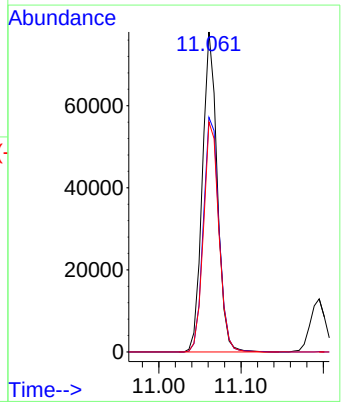


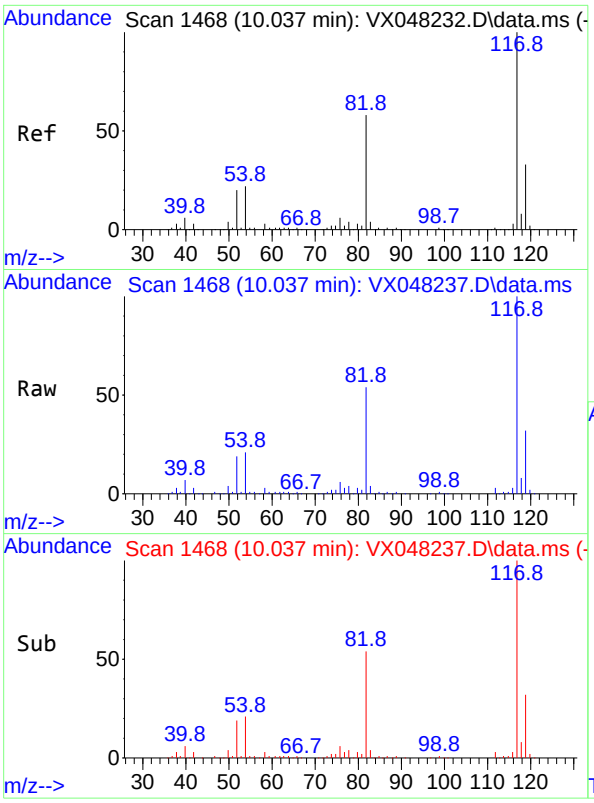


#62
4-Bromofluorobenzene
Concen: 46.795 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 95 Resp: 97828

Ion	Ratio	Lower	Upper
95	100		
174	77.0	0.0	147.8
176	74.2	0.0	142.8



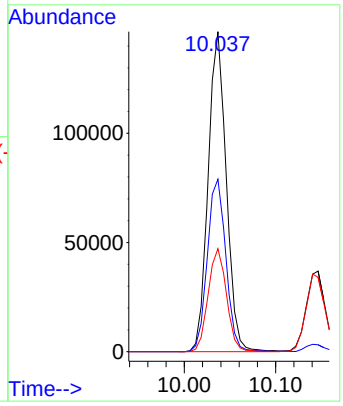


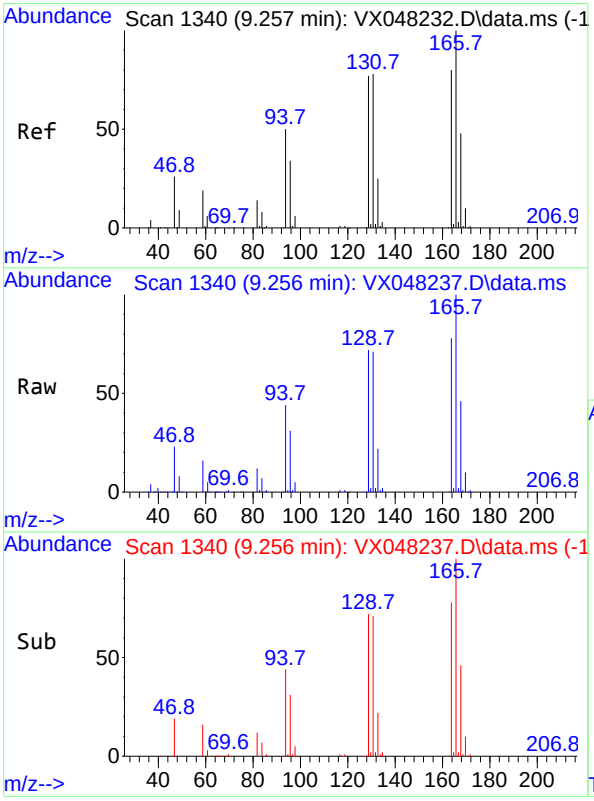
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion:117 Resp: 201397

Ion	Ratio	Lower	Upper
117	100		
82	53.9	46.5	69.7
119	32.2	25.9	38.9

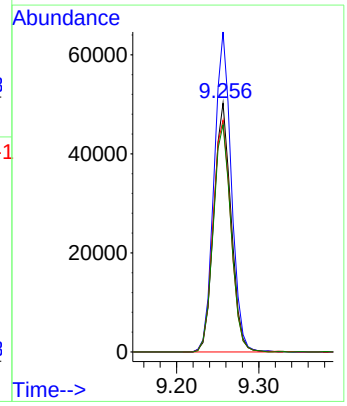


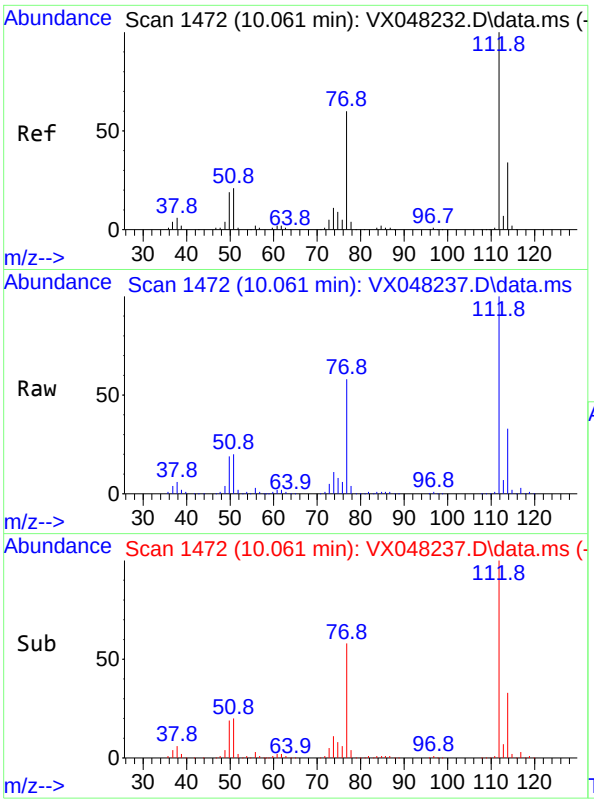


#64
Tetrachloroethene
Concen: 48.686 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:164 Resp: 73198

Ion	Ratio	Lower	Upper
164	100		
166	128.6	104.5	156.7
129	93.1	81.8	122.6
131	91.3	77.0	115.6



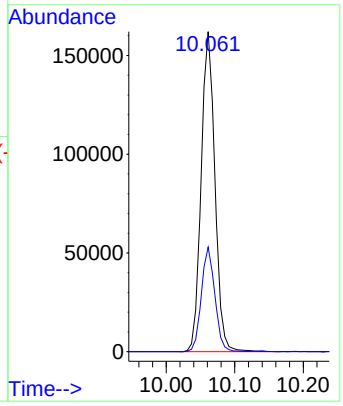


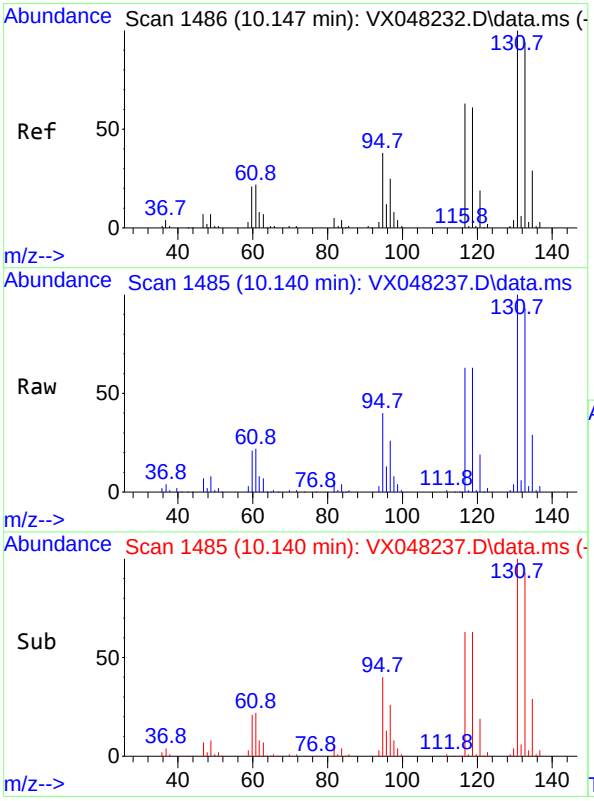
#65
Chlorobenzene
Concen: 50.095 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion:112 Resp: 226953

Ion	Ratio	Lower	Upper
112	100		
114	32.6	26.2	39.2

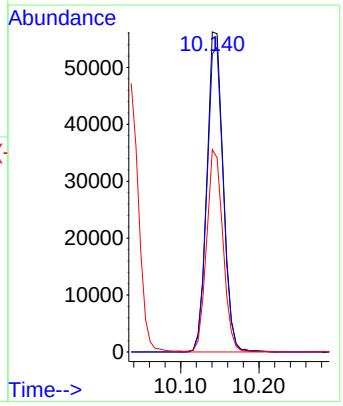


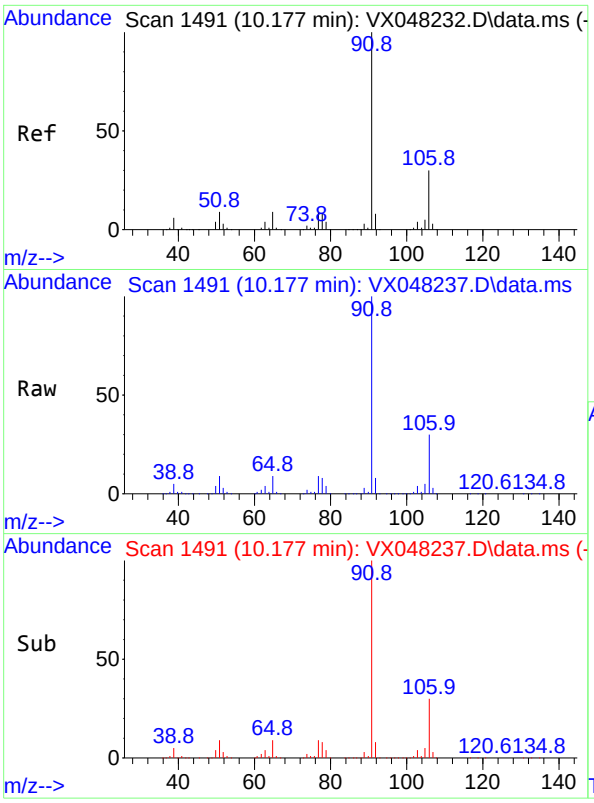


#66
1,1,1,2-Tetrachloroethane
Concen: 49.014 ug/l
RT: 10.140 min Scan# 1485
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:131 Resp: 81561

Ion	Ratio	Lower	Upper
131	100		
133	95.2	47.6	142.8
119	63.3	32.5	97.5



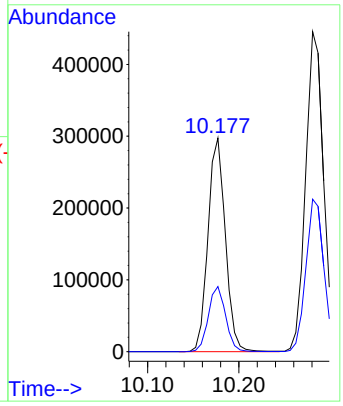


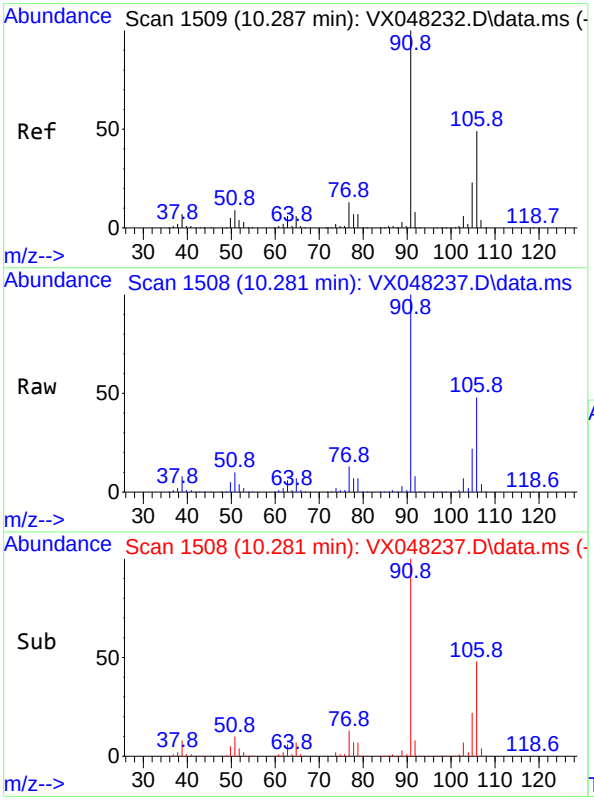
#67
Ethyl Benzene
Concen: 50.798 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 91 Resp: 391830

Ion	Ratio	Lower	Upper
91	100		
106	30.5	23.8	35.6

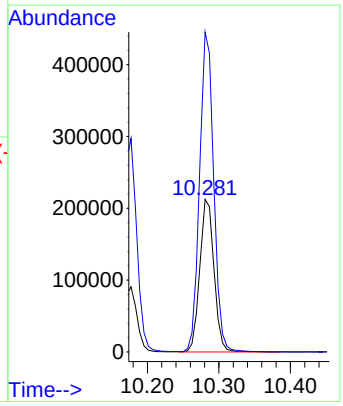


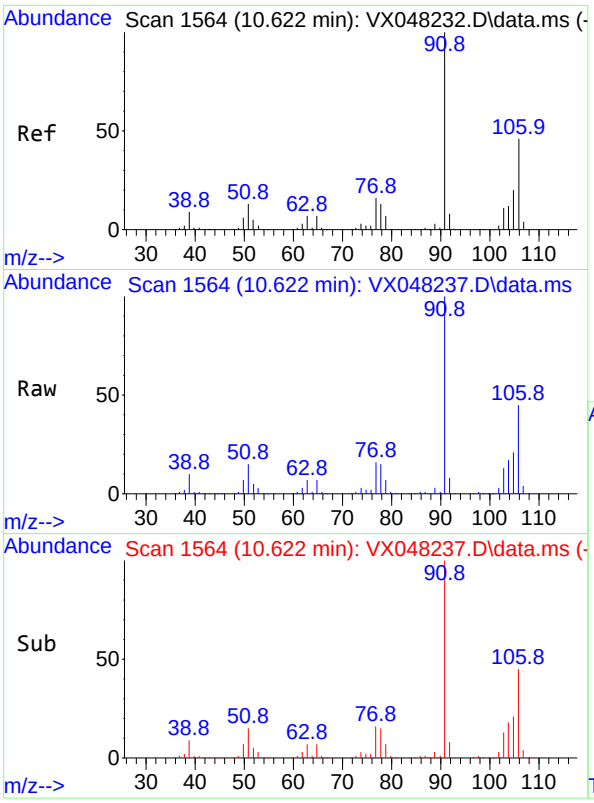


#68
m/p-Xylenes
Concen: 102.416 ug/l
RT: 10.281 min Scan# 1508
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:106 Resp: 293516

Ion	Ratio	Lower	Upper
106	100		
91	208.2	167.9	251.9



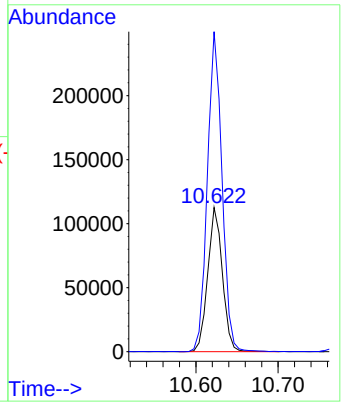


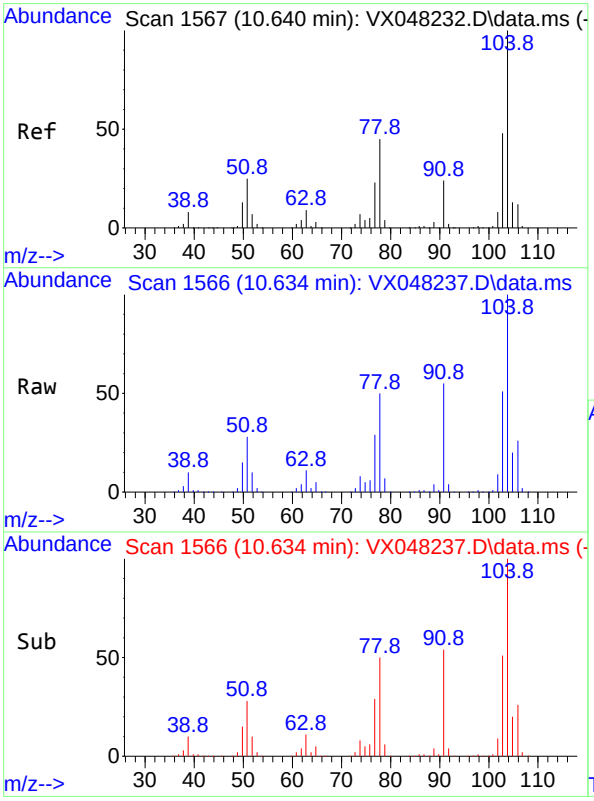
#69
o-Xylene
Concen: 50.424 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion:106 Resp: 139515

Ion	Ratio	Lower	Upper
106	100		
91	221.1	111.3	333.9

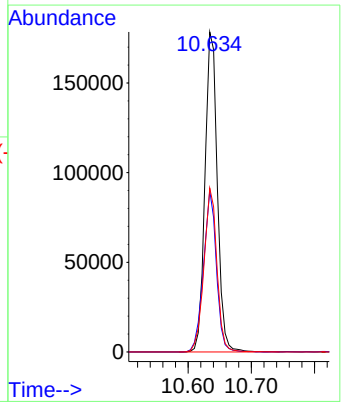


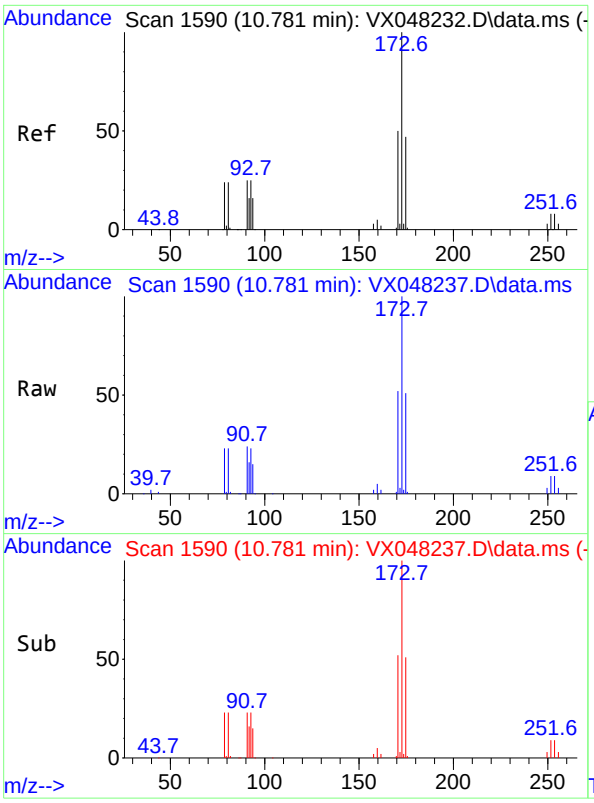


#70
Styrene
Concen: 51.651 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:104 Resp: 243341

Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.2	63.4
103	53.8	43.0	64.4



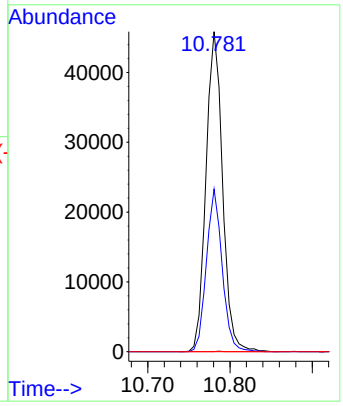


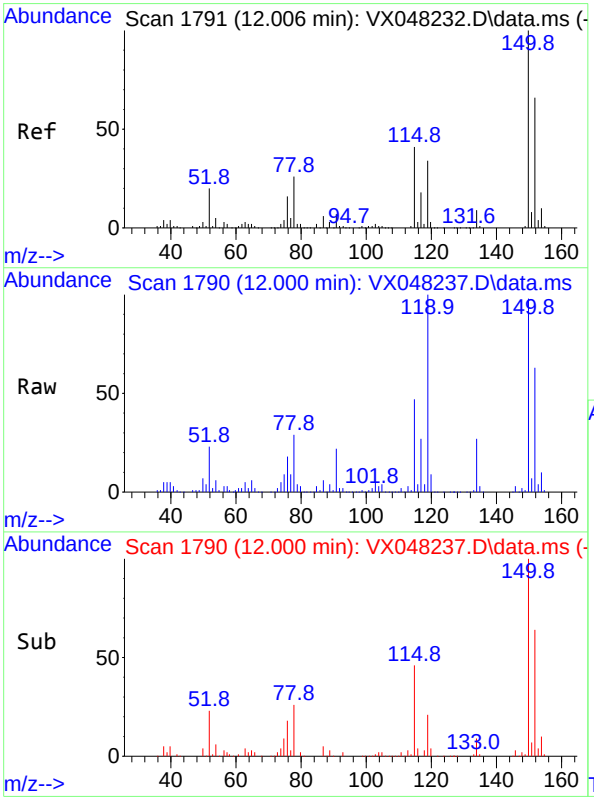
#71
Bromoform
Concen: 48.250 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion:173 Resp: 64170

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.0	72.0
254	0.1	0.0	0.0#

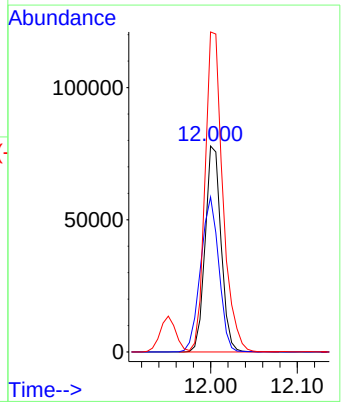


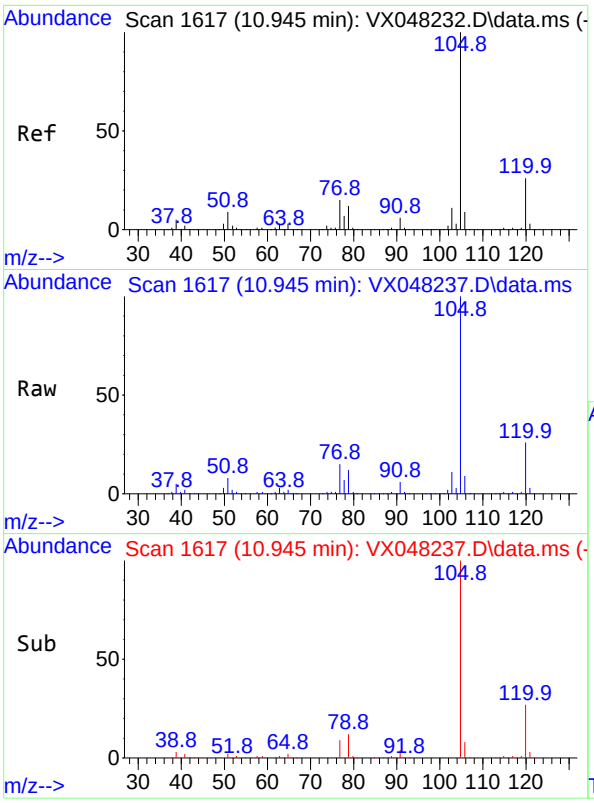


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.000 min Scan# 1790
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:152 Resp: 99108

Ion	Ratio	Lower	Upper
152	100		
115	86.2	43.1	129.4
150	173.4	0.0	353.0



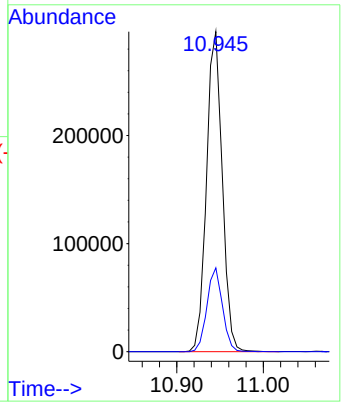


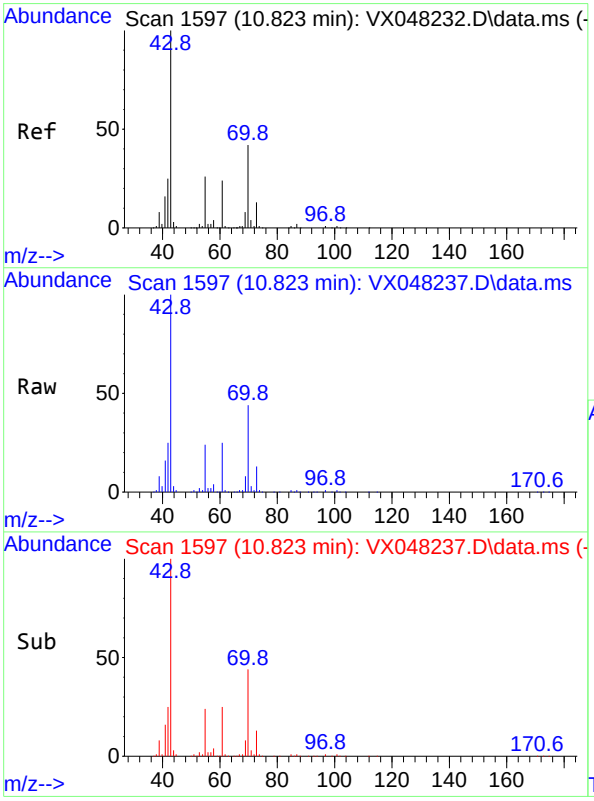
#73
Isopropylbenzene
Concen: 51.658 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion:105 Resp: 373948

Ion	Ratio	Lower	Upper
105	100		
120	25.8	13.0	38.9

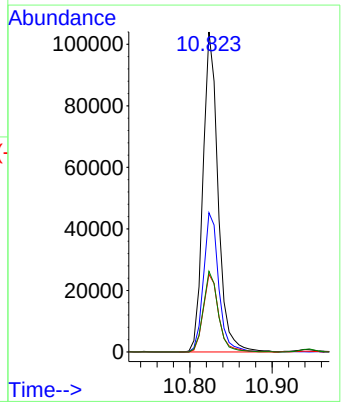


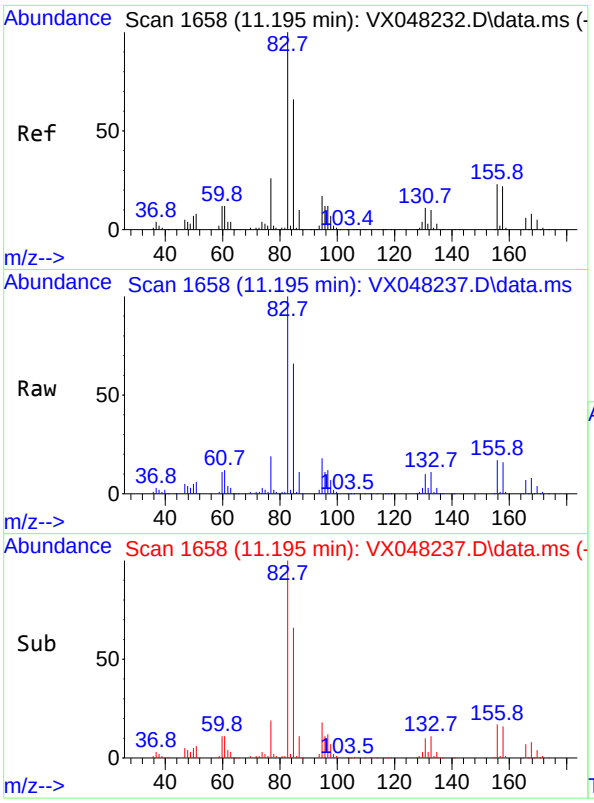


#74
N-amyl acetate
Concen: 51.399 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 43 Resp: 131979

Ion	Ratio	Lower	Upper
43	100		
70	44.1	32.2	48.2
55	25.0	19.1	28.7
61	25.1	18.6	28.0



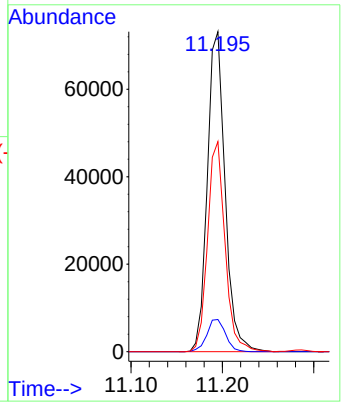


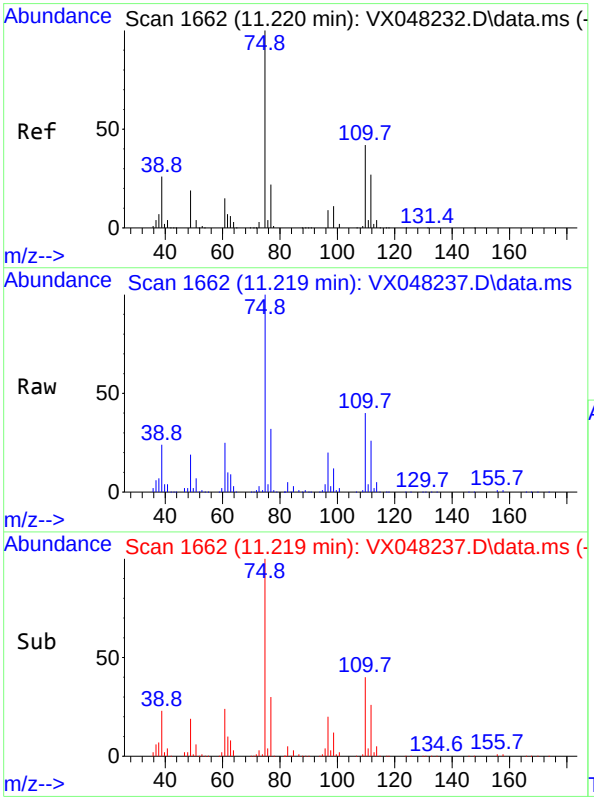
#75
1,1,2,2-Tetrachloroethane
Concen: 49.936 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 83 Resp: 98715

Ion	Ratio	Lower	Upper
83	100		
131	10.6	4.8	14.4
85	64.8	31.9	95.7

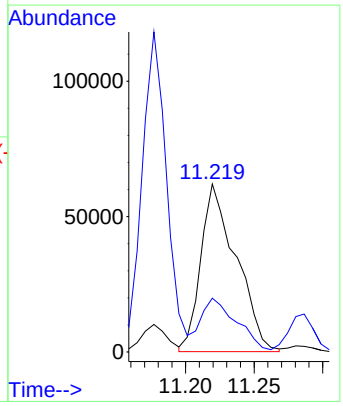


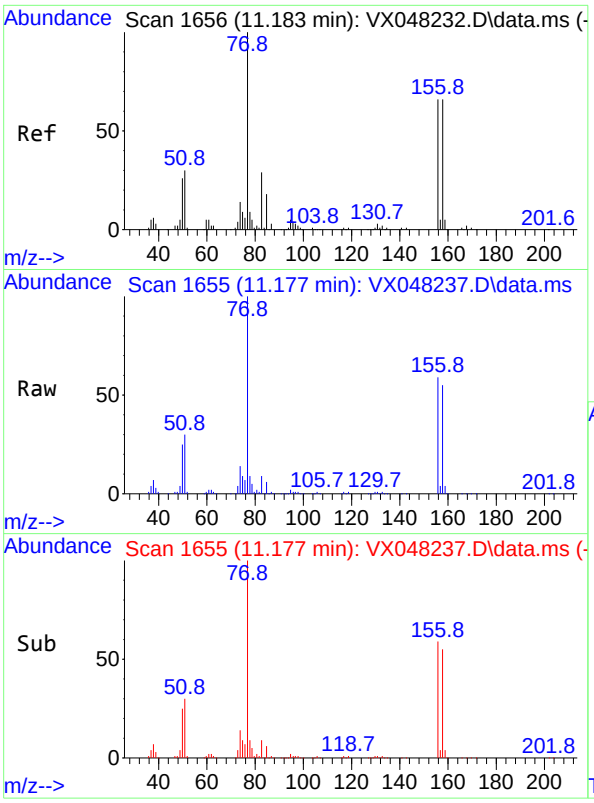


#76
1,2,3-Trichloropropane
Concen: 69.229 ug/l
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 75 Resp: 111265

Ion	Ratio	Lower	Upper
75	100		
77	33.1	22.4	67.2



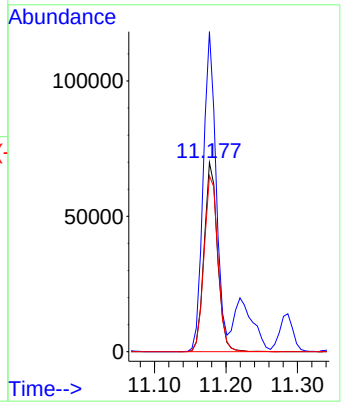


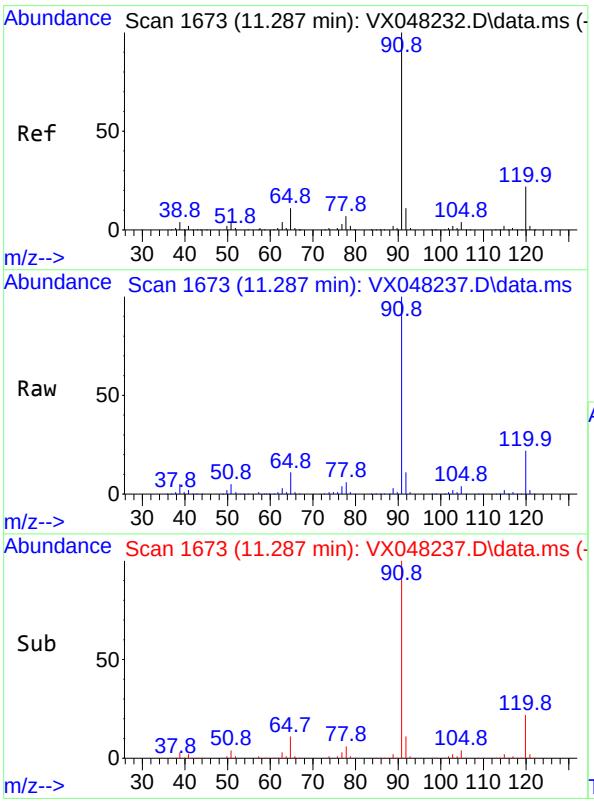
#77
Bromobenzene
Concen: 50.135 ug/l
RT: 11.177 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion:156 Resp: 91000

Ion	Ratio	Lower	Upper
156	100		
77	162.5	87.0	261.0
158	96.4	47.8	143.4

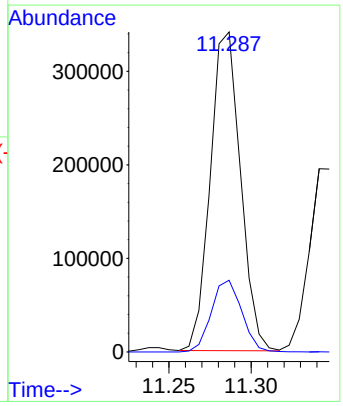


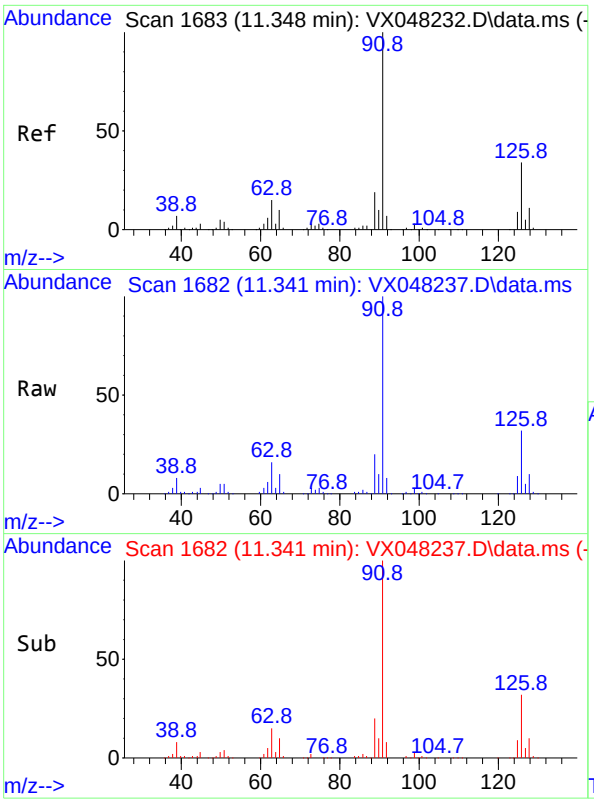


#78
n-propylbenzene
Concen: 51.980 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 91 Resp: 435662

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.1	33.1



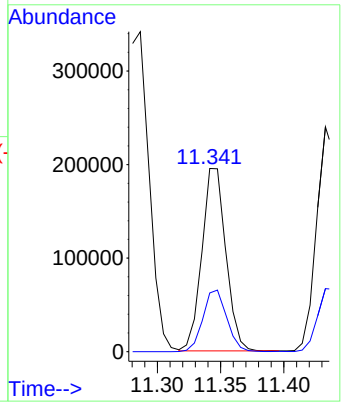


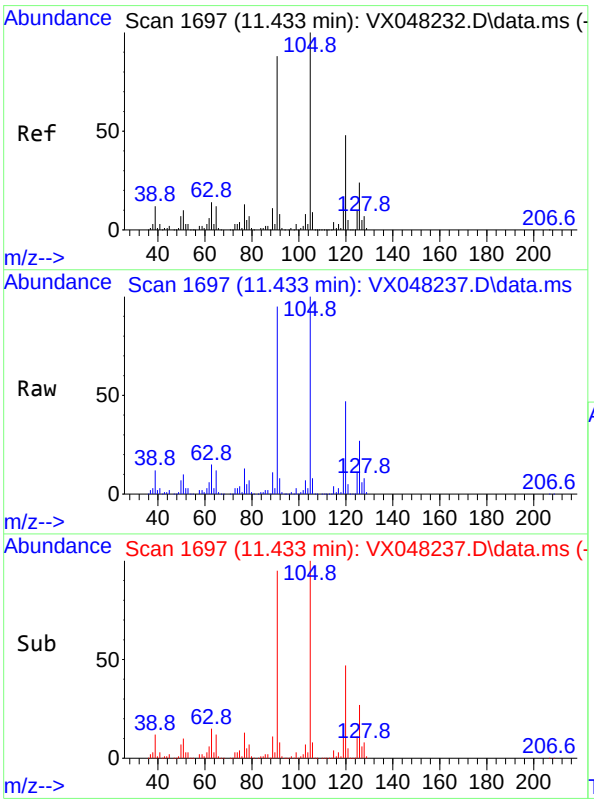
#79
2-Chlorotoluene
Concen: 50.760 ug/l
RT: 11.341 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 91 Resp: 257936

Ion	Ratio	Lower	Upper
91	100		
126	33.7	16.4	49.4

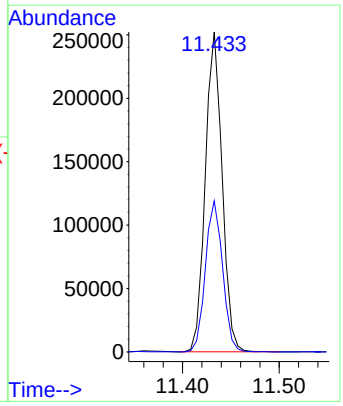


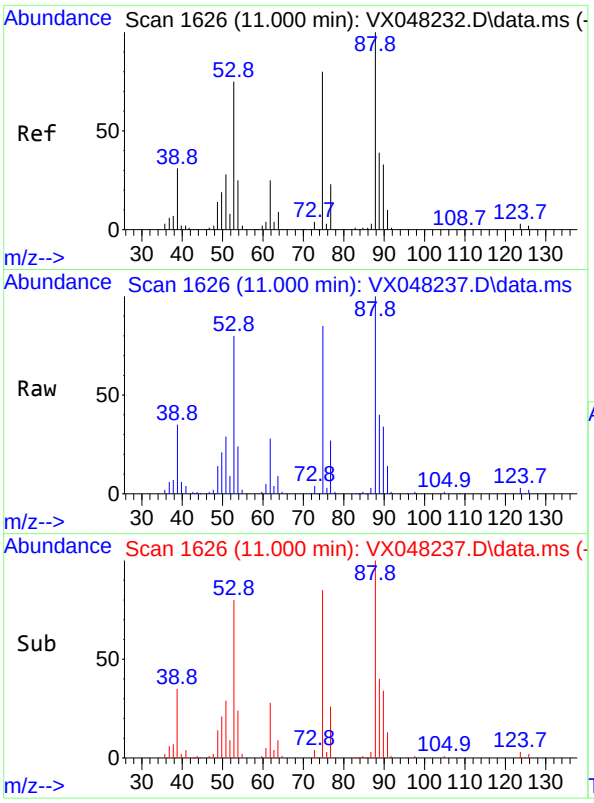


#80
1,3,5-Trimethylbenzene
Concen: 50.918 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:105 Resp: 305027

Ion	Ratio	Lower	Upper
105	100		
120	48.5	24.0	72.0



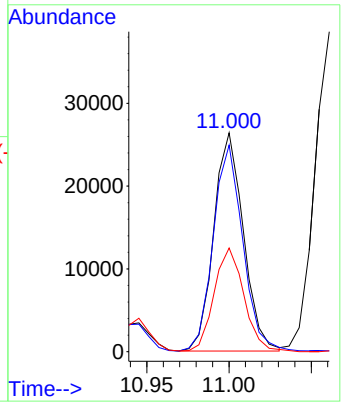


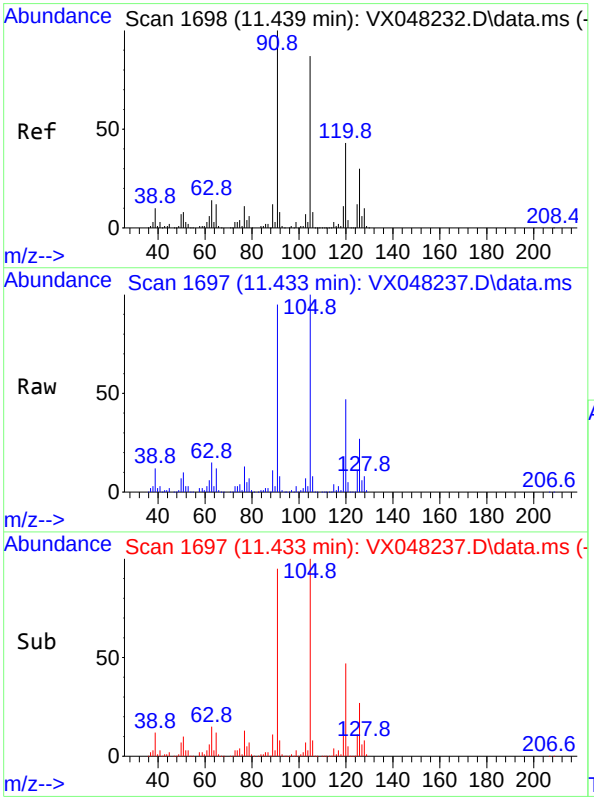
#81
trans-1,4-Dichloro-2-butene
Concen: 49.995 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 75 Resp: 33027

Ion	Ratio	Lower	Upper
75	100		
53	95.4	79.5	119.3
89	48.1	36.8	55.2

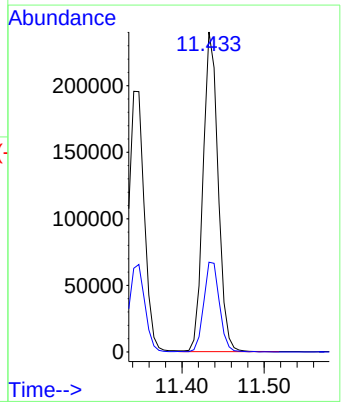


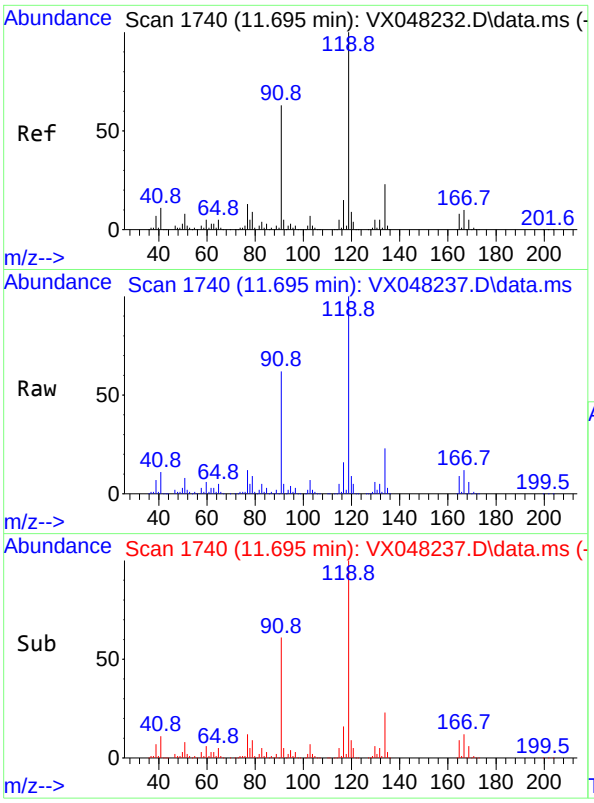


#82
4-Chlorotoluene
Concen: 50.507 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 91 Resp: 304670

Ion	Ratio	Lower	Upper
91	100		
126	29.5	14.1	42.4



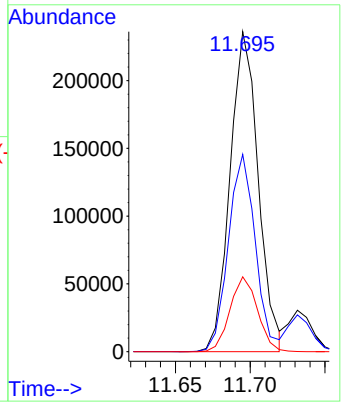


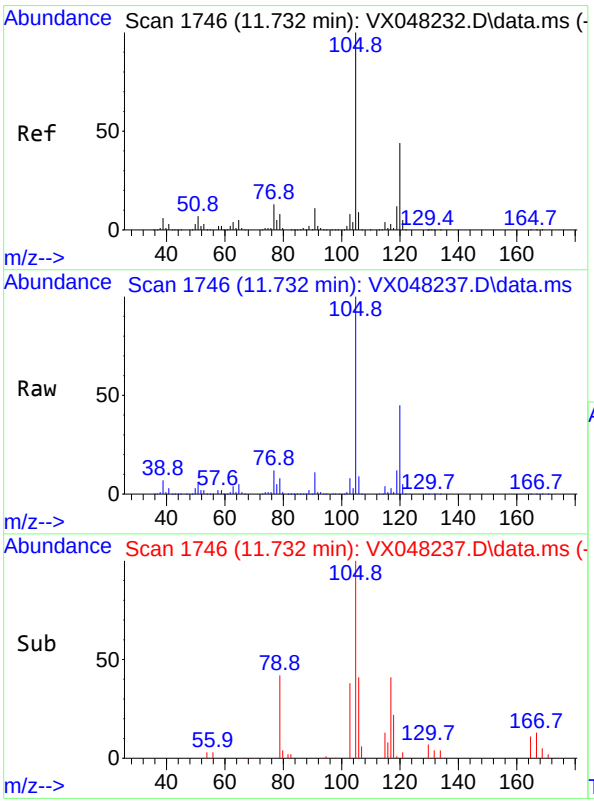
#83
tert-Butylbenzene
Concen: 50.288 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion:119 Resp: 309524

Ion	Ratio	Lower	Upper
119	100		
91	59.2	30.3	91.0
134	22.9	11.4	34.2

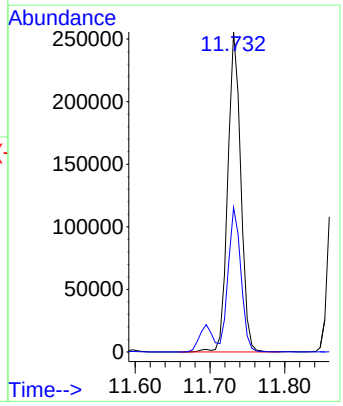


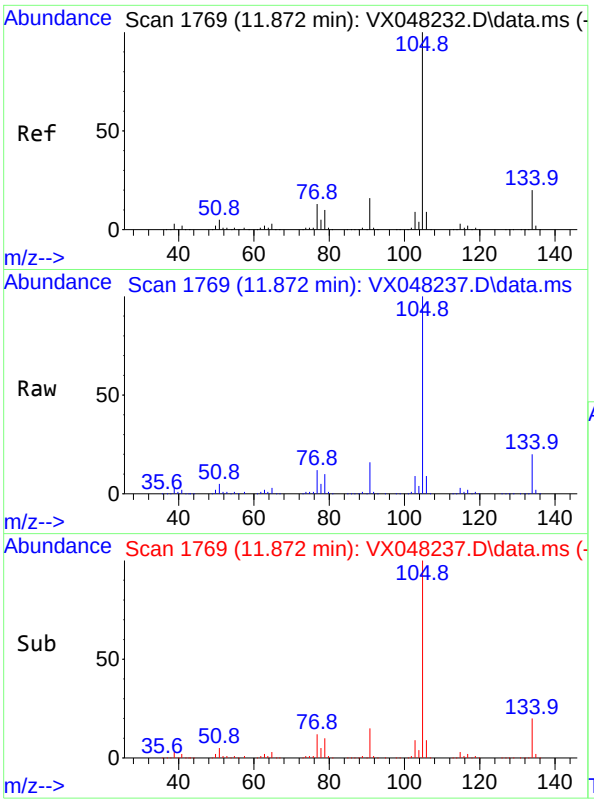


#84
1,2,4-Trimethylbenzene
Concen: 51.607 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:105 Resp: 308529

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.5



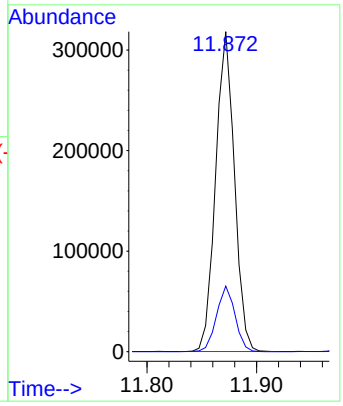


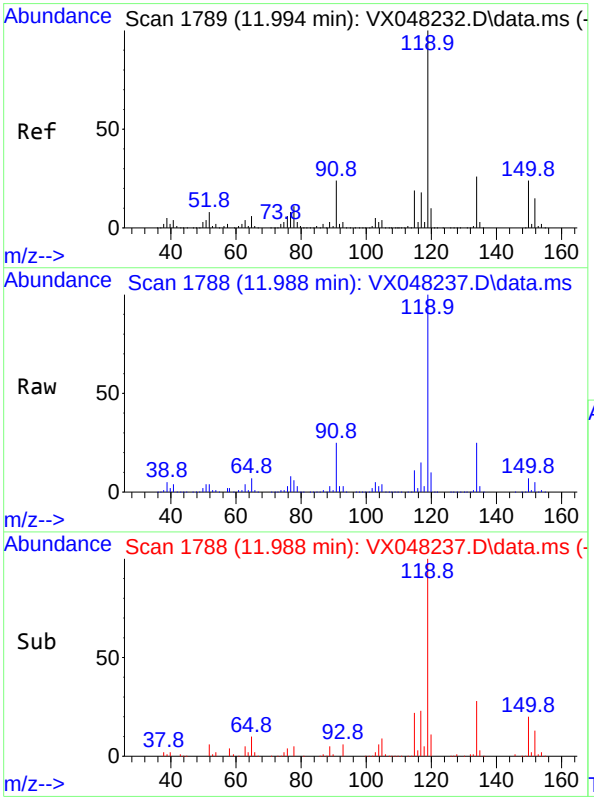
#85
sec-Butylbenzene
Concen: 51.230 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion:105 Resp: 379368

Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.1	30.1

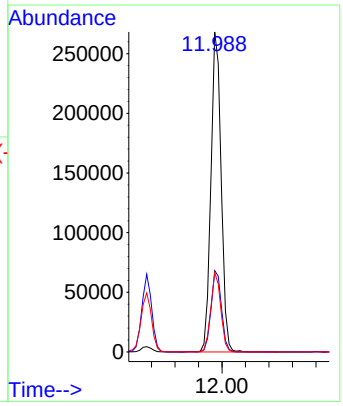


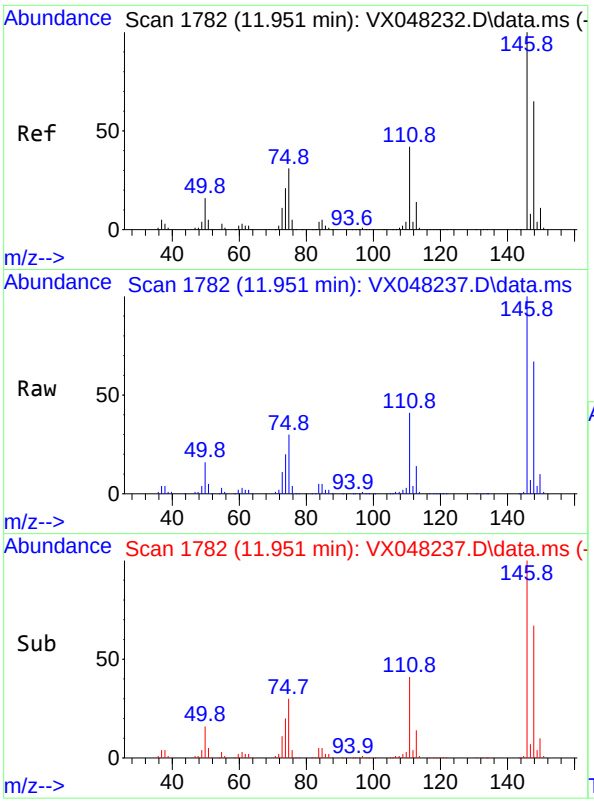


#86
p-Isopropyltoluene
Concen: 50.686 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:119 Resp: 324425

Ion	Ratio	Lower	Upper
119	100		
134	25.8	13.0	39.0
91	24.3	12.1	36.3



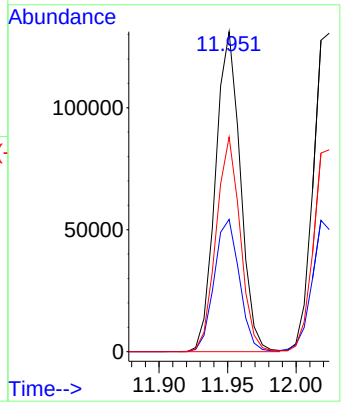


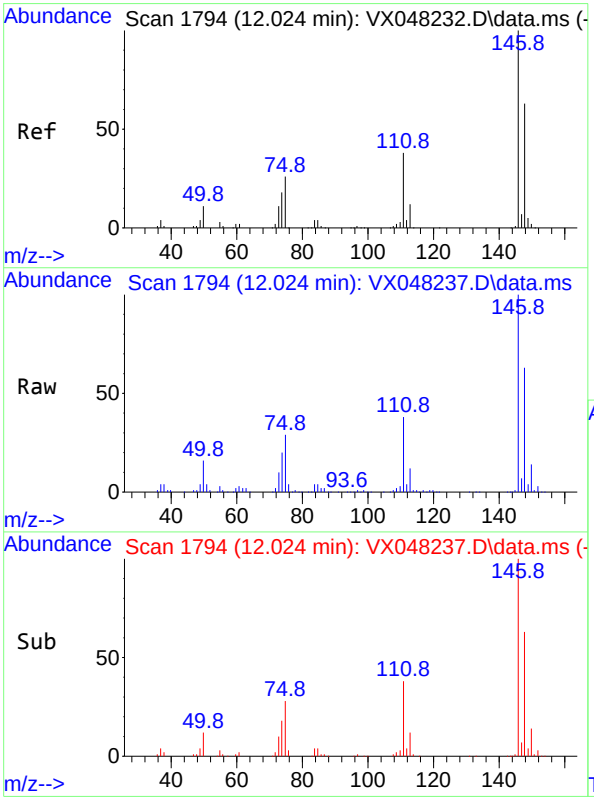
#87
1,3-Dichlorobenzene
Concen: 48.229 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion:146 Resp: 165027

Ion	Ratio	Lower	Upper
146	100		
111	42.2	20.4	61.2
148	65.3	31.9	95.9

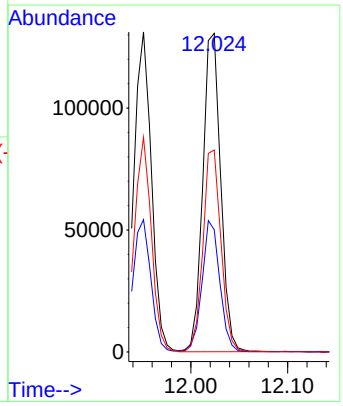


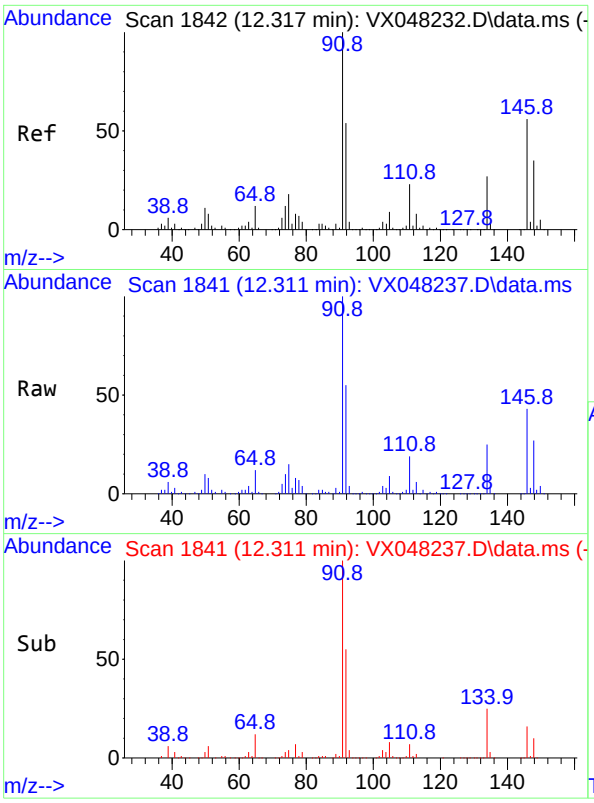


#88
1,4-Dichlorobenzene
Concen: 47.423 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:146 Resp: 168102

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.1	60.2
148	63.9	31.8	95.3



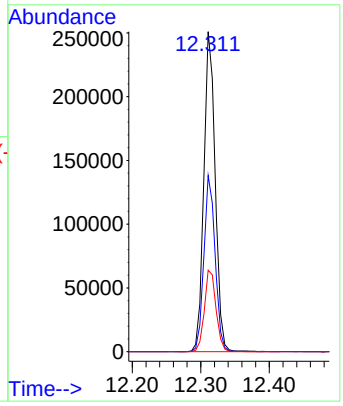


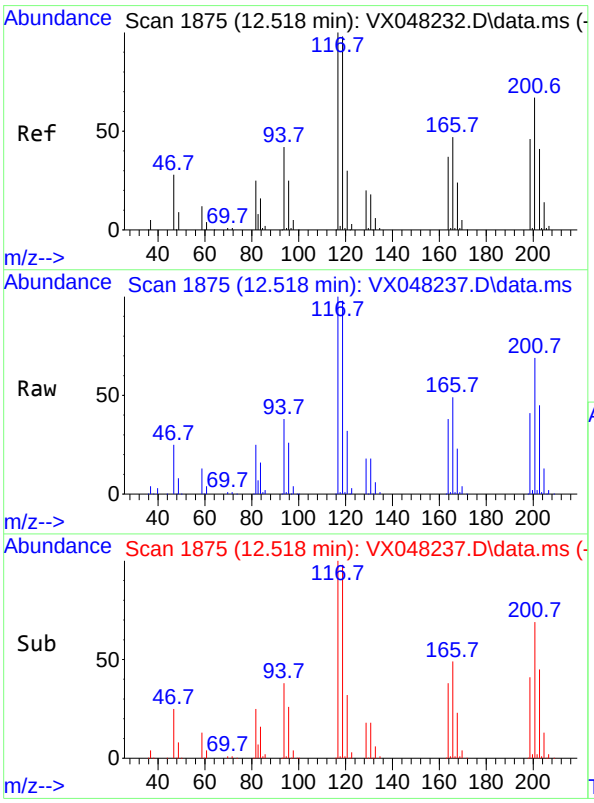
#89
n-Butylbenzene
Concen: 49.728 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 91 Resp: 289706

Ion	Ratio	Lower	Upper
91	100		
92	54.7	26.9	80.6
134	26.1	12.7	38.1

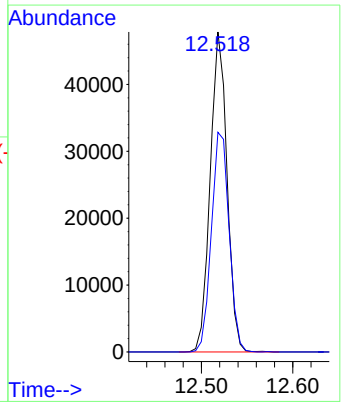


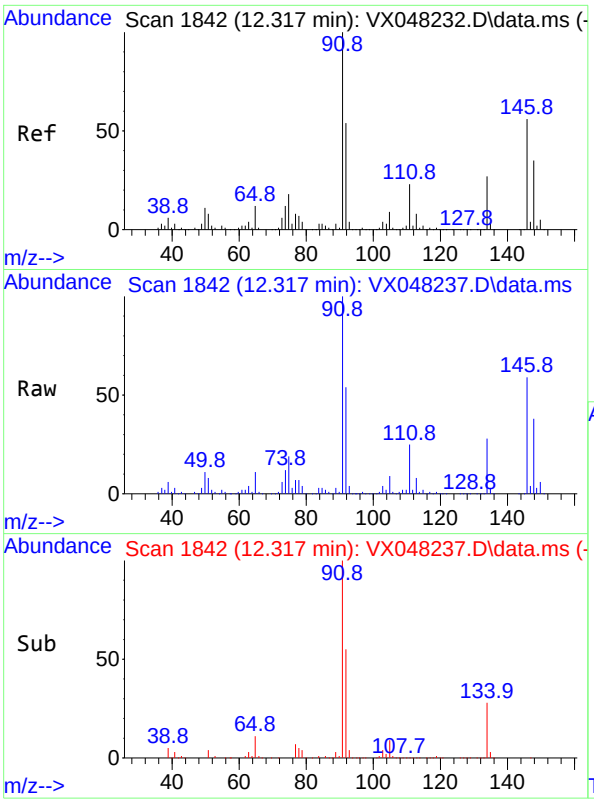


#90
Hexachloroethane
Concen: 48.437 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:117 Resp: 61223

Ion	Ratio	Lower	Upper
117	100		
201	72.4	34.1	102.2



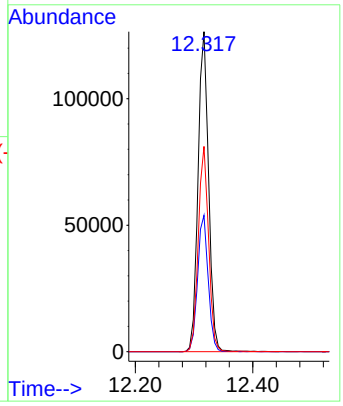


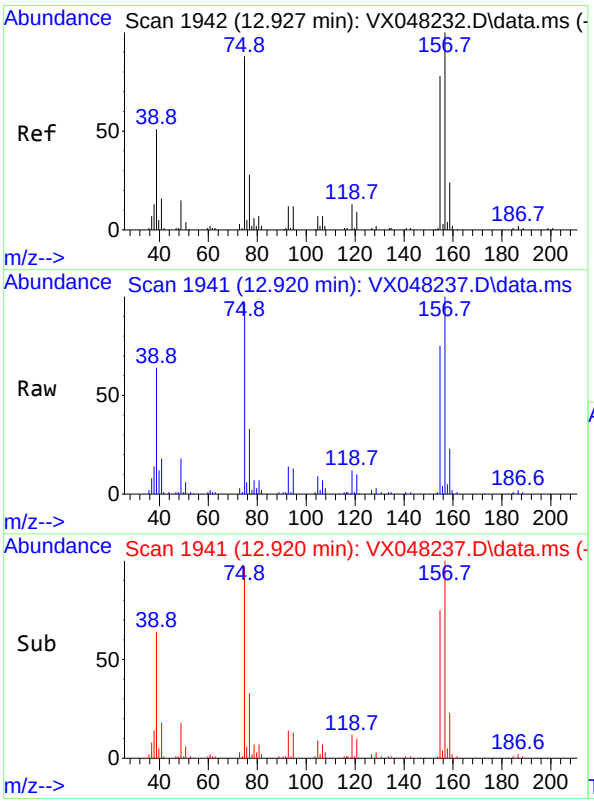
#91
1,2-Dichlorobenzene
Concen: 49.123 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion:146 Resp: 157812

Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.9	65.5
148	62.8	31.9	95.5

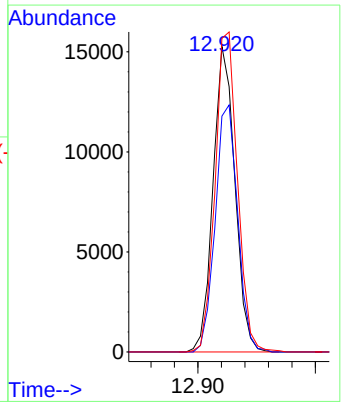


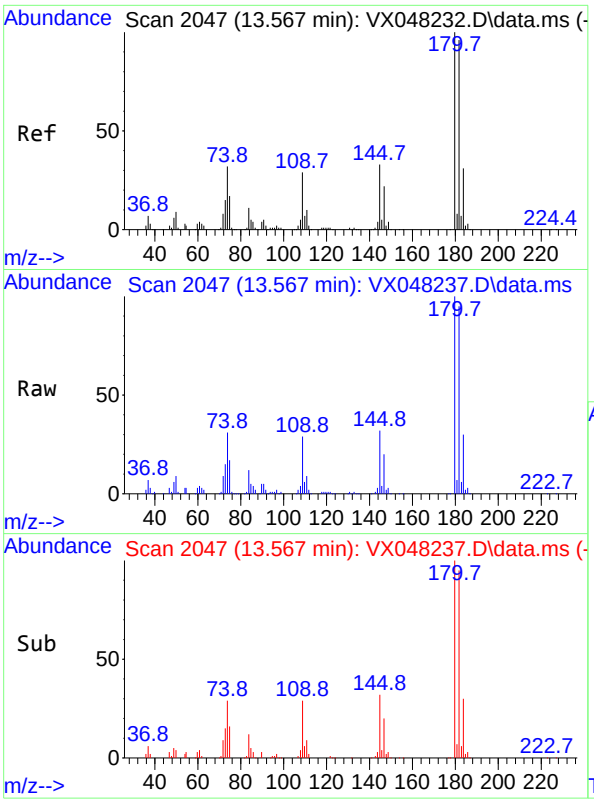


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.072 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 75 Resp: 19691

Ion	Ratio	Lower	Upper
75	100		
155	83.2	42.8	128.4
157	107.6	54.2	162.6



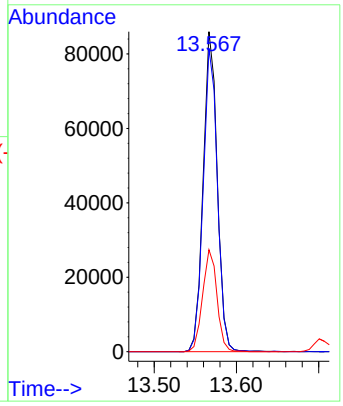


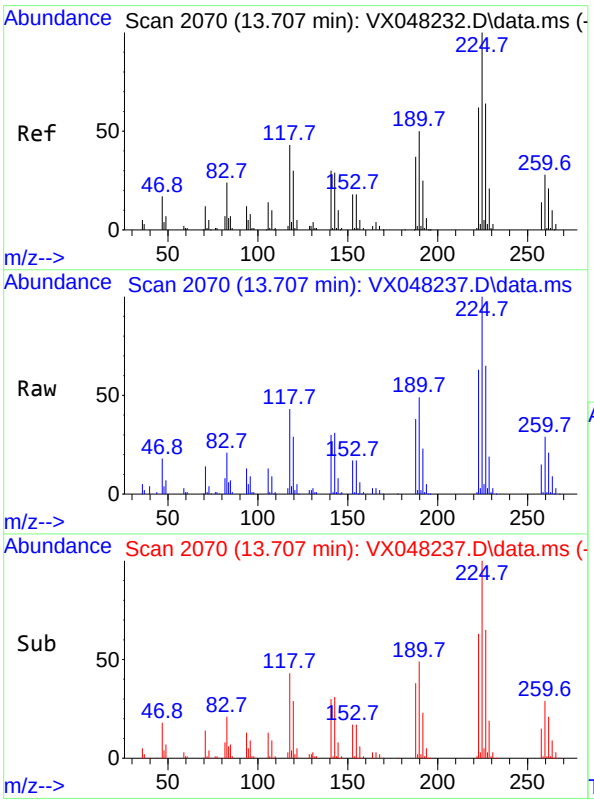
#93
1,2,4-Trichlorobenzene
Concen: 46.941 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion:180 Resp: 101983

Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.3	142.0
145	32.5	16.3	48.9

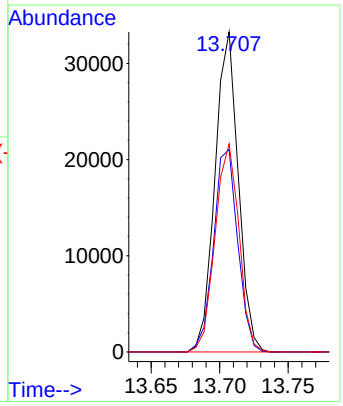


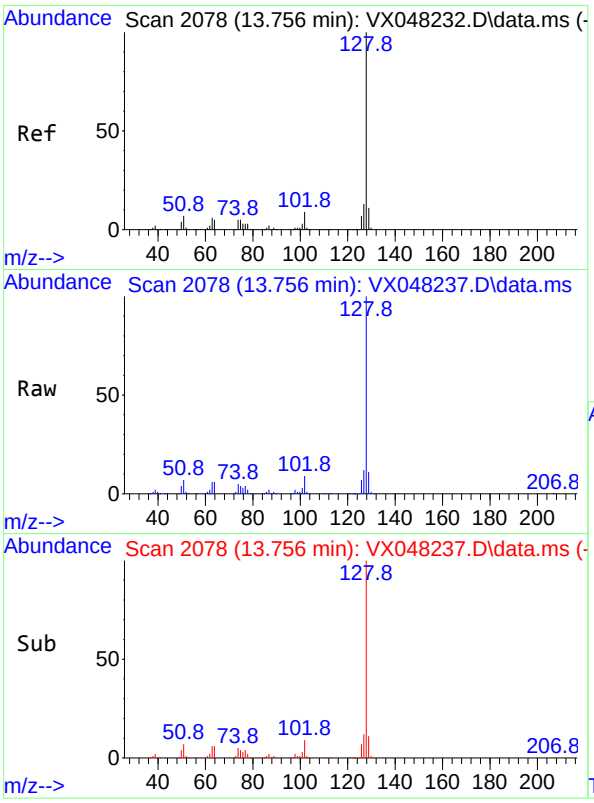


#94
Hexachlorobutadiene
Concen: 48.274 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:225 Resp: 39299

Ion	Ratio	Lower	Upper
225	100		
223	65.8	32.6	97.7
227	66.5	32.5	97.4



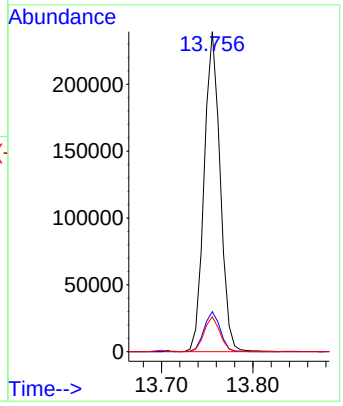


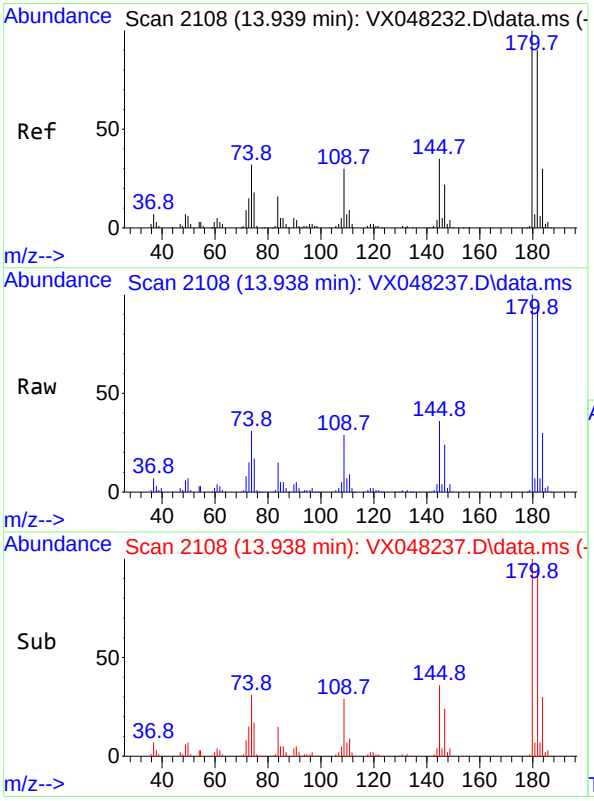
#95
Naphthalene
Concen: 50.362 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion:128 Resp: 289882

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.4
129	10.8	8.6	12.8

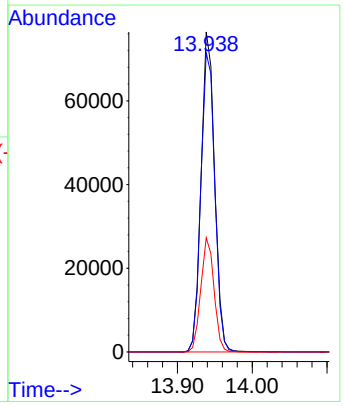




#96
1,2,3-Trichlorobenzene
Concen: 48.223 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion:180 Resp: 96139

Ion	Ratio	Lower	Upper
180	100		
182	95.9	46.6	139.7
145	34.8	16.9	50.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048240.D
Acq On : 20 Oct 2025 15:50
Operator : JC/MD
Sample : VX1020WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Quant Time: Oct 25 03:39:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	134660	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	221833	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	200515	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	101575	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	97664	51.728	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 103.460%			
35) Dibromofluoromethane	5.367	113	77595	51.237	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.480%			
50) Toluene-d8	8.628	98	275727	51.943	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 103.880%			
62) 4-Bromofluorobenzene	11.061	95	103135	51.072	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	24708	17.848	ug/l	95
3) Chloromethane	1.300	50	25077	19.407	ug/l	95
4) Vinyl Chloride	1.380	62	22981	19.206	ug/l	94
5) Bromomethane	1.617	94	17486	21.534	ug/l	98
6) Chloroethane	1.697	64	14806	21.058	ug/l	90
7) Trichlorofluoromethane	1.898	101	42803	18.652	ug/l	98
8) Diethyl Ether	2.136	74	12617	19.540	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.337	101	26596	18.302	ug/l	96
10) Methyl Iodide	2.453	142	31308	17.138	ug/l	97
11) Tert butyl alcohol	2.940	59	17139	91.429	ug/l	96
12) 1,1-Dichloroethene	2.325	96	27320	19.324	ug/l	91
13) Acrolein	2.233	56	21046	110.081	ug/l	100
14) Allyl chloride	2.666	41	45510	19.389	ug/l	97
15) Acrylonitrile	3.056	53	63454	93.873	ug/l	99
16) Acetone	2.373	43	55537	85.745	ug/l	99
17) Carbon Disulfide	2.514	76	79653	17.877	ug/l	99
18) Methyl Acetate	2.696	43	26712	19.748	ug/l	98
19) Methyl tert-butyl Ether	3.105	73	90374	18.738	ug/l	95
20) Methylene Chloride	2.788	84	31460	19.934	ug/l	91
21) trans-1,2-Dichloroethene	3.087	96	30232	19.468	ug/l	91
22) Diisopropyl ether	3.751	45	94293	20.141	ug/l	91
23) Vinyl Acetate	3.708	43	367791	98.349	ug/l	96
24) 1,1-Dichloroethane	3.605	63	53132	18.769	ug/l	96
25) 2-Butanone	4.532	43	75407	91.980	ug/l	99
26) 2,2-Dichloropropane	4.458	77	45475	17.798	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	34657	19.122	ug/l	99
28) Bromochloromethane	4.885	49	25158	21.434	ug/l	84
29) Tetrahydrofuran	4.989	42	46399	94.500	ug/l	93
30) Chloroform	5.074	83	58330	19.287	ug/l	97
31) Cyclohexane	5.458	56	43852	18.711	ug/l	86
32) 1,1,1-Trichloroethane	5.373	97	52467	18.824	ug/l	97
36) 1,1-Dichloropropene	5.678	75	39432	18.319	ug/l	98
37) Ethyl Acetate	4.696	43	32030	17.952	ug/l	97
38) Carbon Tetrachloride	5.659	117	46868	17.648	ug/l	95
39) Methylcyclohexane	7.360	83	44057	17.331	ug/l	95
40) Benzene	6.019	78	117785	18.847	ug/l	96

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048240.D
Acq On : 20 Oct 2025 15:50
Operator : JC/MD
Sample : VX1020WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Quant Time: Oct 25 03:39:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.903	41	18270	19.499	ug/l		99
42) 1,2-Dichloroethane	6.074	62	43384	18.813	ug/l		99
43) Isopropyl Acetate	6.318	43	55493	18.935	ug/l		97
44) Trichloroethene	7.110	130	31625	19.165	ug/l		95
45) 1,2-Dichloropropane	7.409	63	28870	19.430	ug/l		99
46) Dibromomethane	7.561	93	21882	18.903	ug/l		94
47) Bromodichloromethane	7.805	83	47249	18.904	ug/l		100
48) Methyl methacrylate	7.677	41	27258	18.432	ug/l		95
49) 1,4-Dioxane	7.641	88	7038	360.230	ug/l		95
51) 4-Methyl-2-Pentanone	8.555	43	160265	94.846	ug/l		97
52) Toluene	8.701	92	76478	19.263	ug/l		98
53) t-1,3-Dichloropropene	8.964	75	45485	18.884	ug/l		97
54) cis-1,3-Dichloropropene	8.348	75	49253	18.953	ug/l		98
55) 1,1,2-Trichloroethane	9.134	97	28845	19.537	ug/l		98
56) Ethyl methacrylate	9.098	69	40543	18.774	ug/l		92
57) 1,3-Dichloropropane	9.293	76	48615	19.277	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	100252	87.448	ug/l		95
59) 2-Hexanone	9.415	43	111445	94.586	ug/l		97
60) Dibromochloromethane	9.500	129	36715	18.502	ug/l		100
61) 1,2-Dibromoethane	9.592	107	30136	19.146	ug/l		97
64) Tetrachloroethene	9.256	164	26462	17.678	ug/l		96
65) Chlorobenzene	10.061	112	85866	19.036	ug/l		95
66) 1,1,1,2-Tetrachloroethane	10.146	131	31130	18.790	ug/l		98
67) Ethyl Benzene	10.177	91	141796	18.464	ug/l		98
68) m/p-Xylenes	10.287	106	109872	38.506	ug/l		99
69) o-Xylene	10.622	106	51473	18.685	ug/l		99
70) Styrene	10.640	104	89782	19.141	ug/l		100
71) Bromoform	10.780	173	24689	18.645	ug/l	#	99
73) Isopropylbenzene	10.945	105	135441	18.256	ug/l		98
74) N-amyl acetate	10.823	43	47216	17.942	ug/l		95
75) 1,1,2,2-Tetrachloroethane	11.195	83	38478	18.992	ug/l		99
76) 1,2,3-Trichloropropane	11.219	75	39314	23.867	ug/l		87
77) Bromobenzene	11.183	156	35128	18.883	ug/l		92
78) n-propylbenzene	11.286	91	159455	18.563	ug/l		98
79) 2-Chlorotoluene	11.347	91	95469	18.331	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	114180	18.597	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	11508	16.997	ug/l		97
82) 4-Chlorotoluene	11.433	91	117079	18.938	ug/l		99
83) tert-Butylbenzene	11.695	119	116521	18.471	ug/l		95
84) 1,2,4-Trimethylbenzene	11.731	105	113408	18.509	ug/l		100
85) sec-Butylbenzene	11.872	105	136883	18.036	ug/l		99
86) p-Isopropyltoluene	11.994	119	118427	18.053	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	63018	17.970	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	65076	17.912	ug/l		98
89) n-Butylbenzene	12.311	91	102164	17.110	ug/l		100
90) Hexachloroethane	12.518	117	22644	17.480	ug/l		97
91) 1,2-Dichlorobenzene	12.317	146	60180	18.277	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.926	75	7243	17.612	ug/l		98
93) 1,2,4-Trichlorobenzene	13.566	180	35892	16.119	ug/l		98
94) Hexachlorobutadiene	13.707	225	14244	17.115	ug/l		97
95) Naphthalene	13.755	128	102306	17.342	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	34331	16.802	ug/l		97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048240.D
Acq On : 20 Oct 2025 15:50
Operator : JC/MD
Sample : VX1020WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Quant Time: Oct 25 03:39:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

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

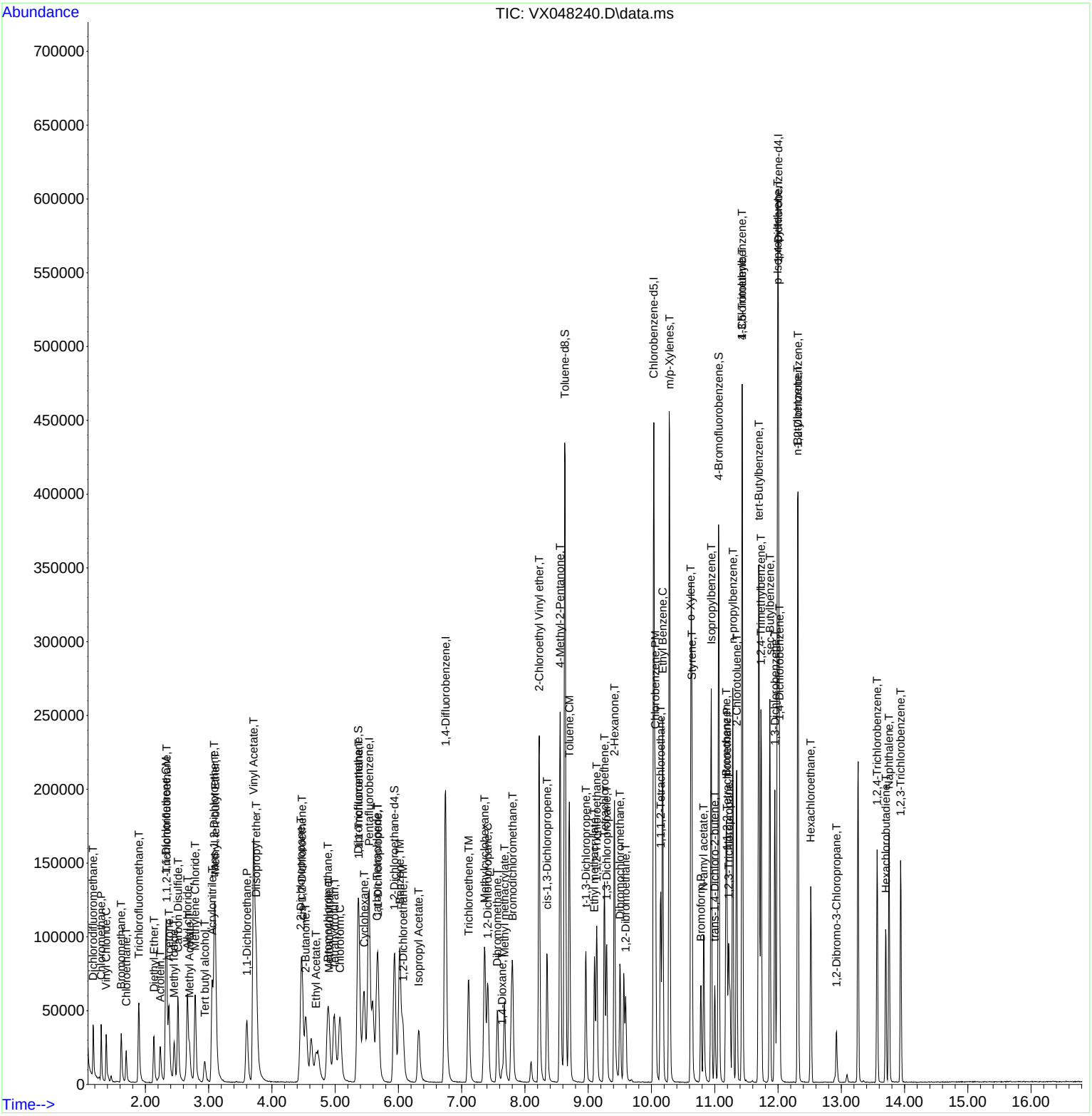
(#) = qualifier out of range (m) = manual integration (+) = signals summed

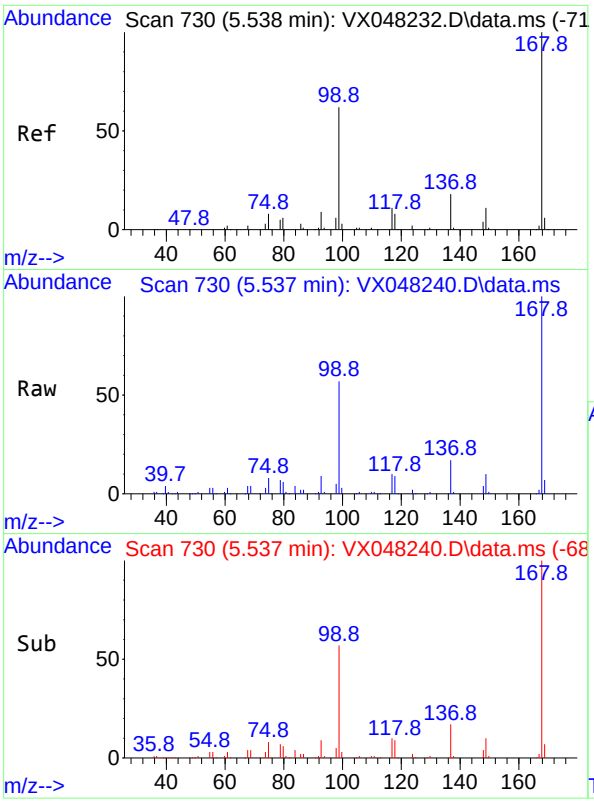
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048240.D
Acq On : 20 Oct 2025 15:50
Operator : JC/MD
Sample : VX1020WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Quant Time: Oct 25 03:39:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration



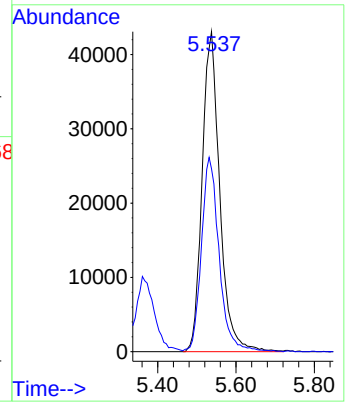


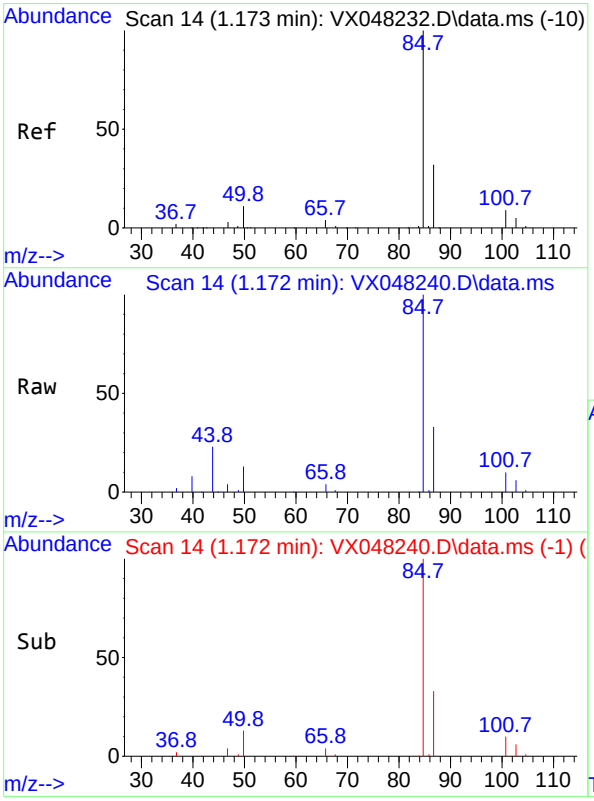
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion:168 Resp: 134660

Ion	Ratio	Lower	Upper
168	100		
99	57.1	46.4	69.6

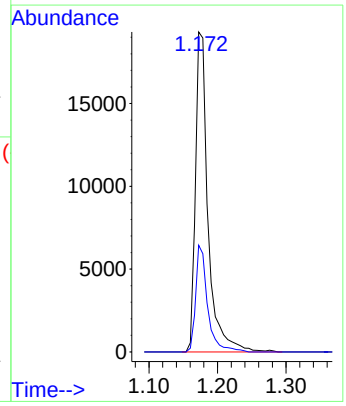


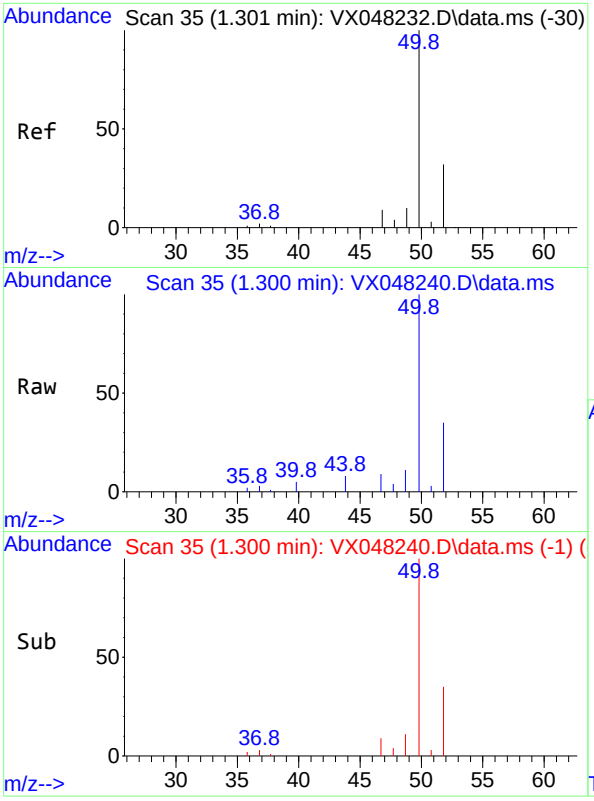


#2
Dichlorodifluoromethane
Concen: 17.848 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 85 Resp: 24708

Ion	Ratio	Lower	Upper
85	100		
87	33.3	15.3	45.9



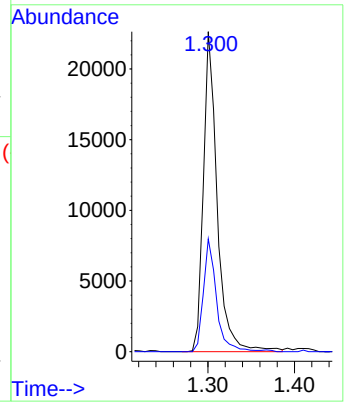


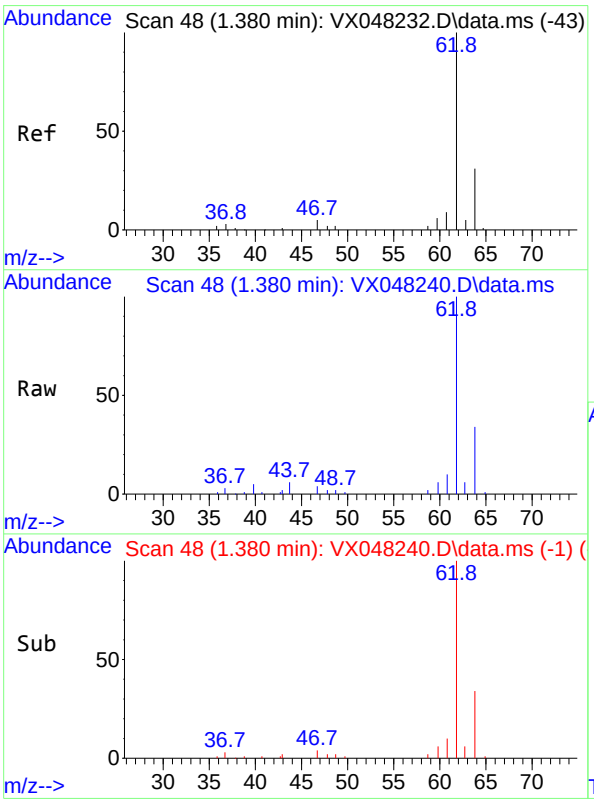
#3
Chloromethane
Concen: 19.407 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 50 Resp: 25077

Ion	Ratio	Lower	Upper
50	100		
52	35.2	25.9	38.9

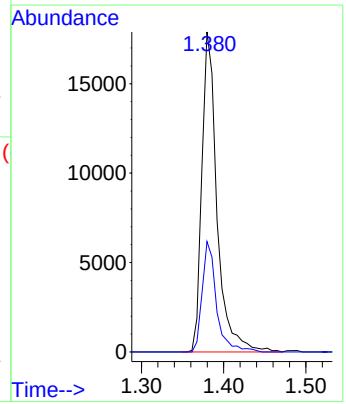


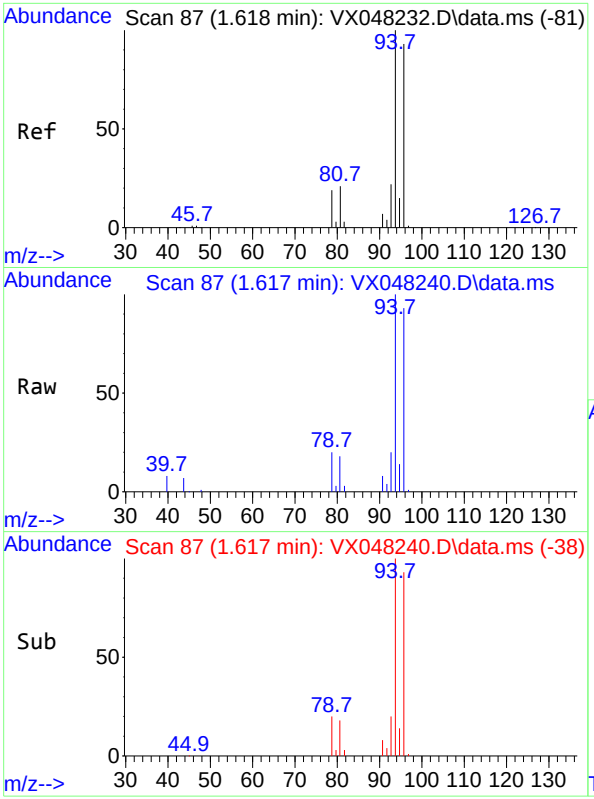


#4
Vinyl Chloride
Concen: 19.206 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 62 Resp: 22981

Ion	Ratio	Lower	Upper
62	100		
64	34.5	25.1	37.7



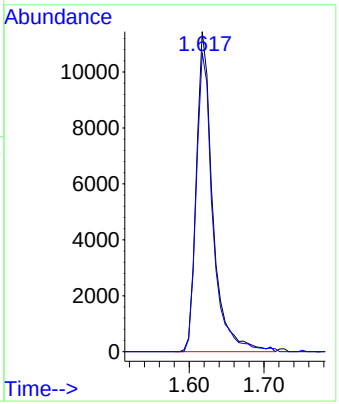


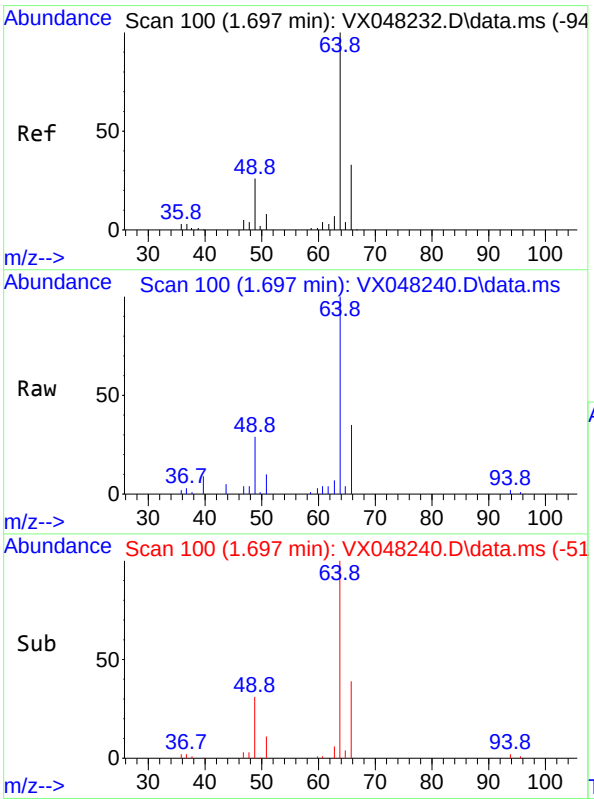
#5
Bromomethane
Concen: 21.534 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 94 Resp: 17486

Ion	Ratio	Lower	Upper
94	100		
96	93.4	76.0	114.0

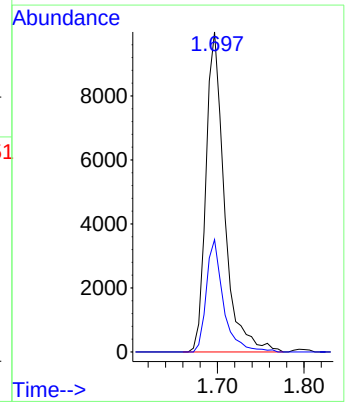


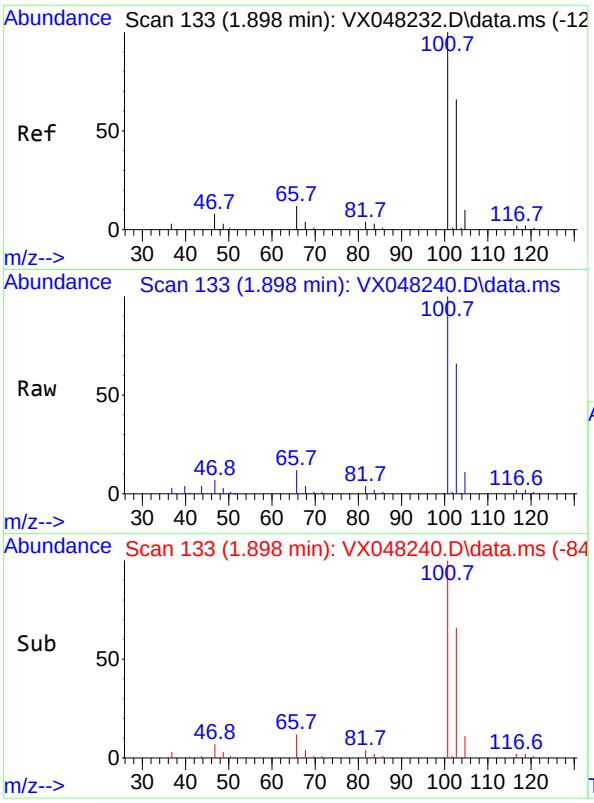


#6
Chloroethane
Concen: 21.058 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 64 Resp: 14806

Ion	Ratio	Lower	Upper
64	100		
66	35.1	23.9	35.9



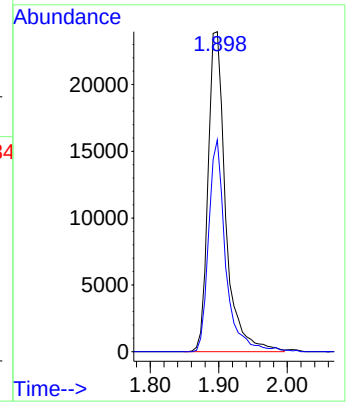


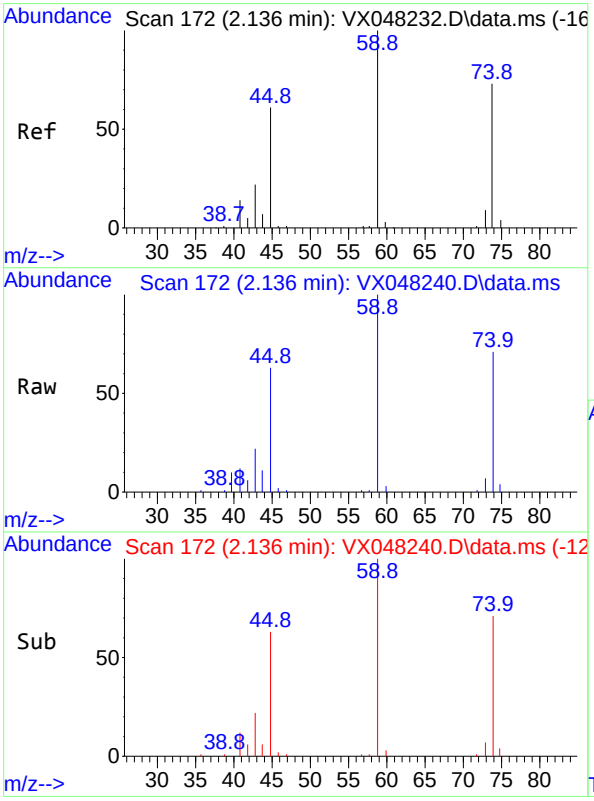
#7
Trichlorofluoromethane
Concen: 18.652 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion:101 Resp: 42803

Ion	Ratio	Lower	Upper
101	100		
103	66.2	51.6	77.4

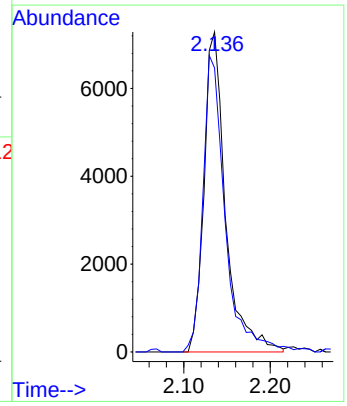


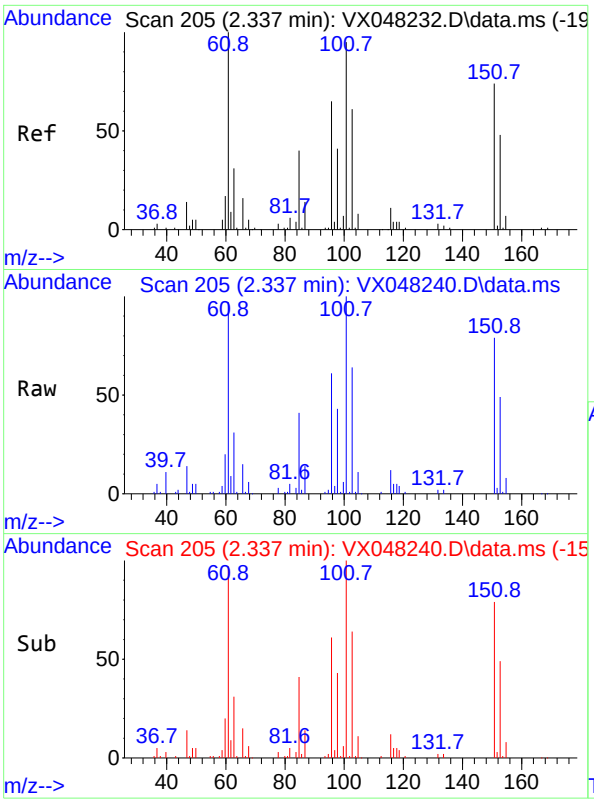


#8
Diethyl Ether
Concen: 19.540 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 74 Resp: 12617

Ion	Ratio	Lower	Upper
74	100		
45	95.2	50.0	149.8



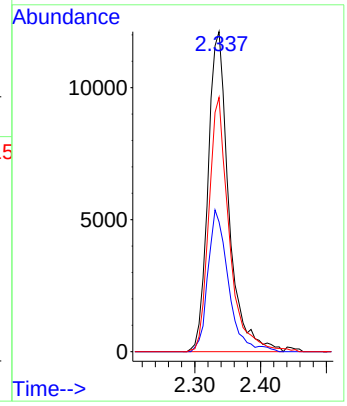


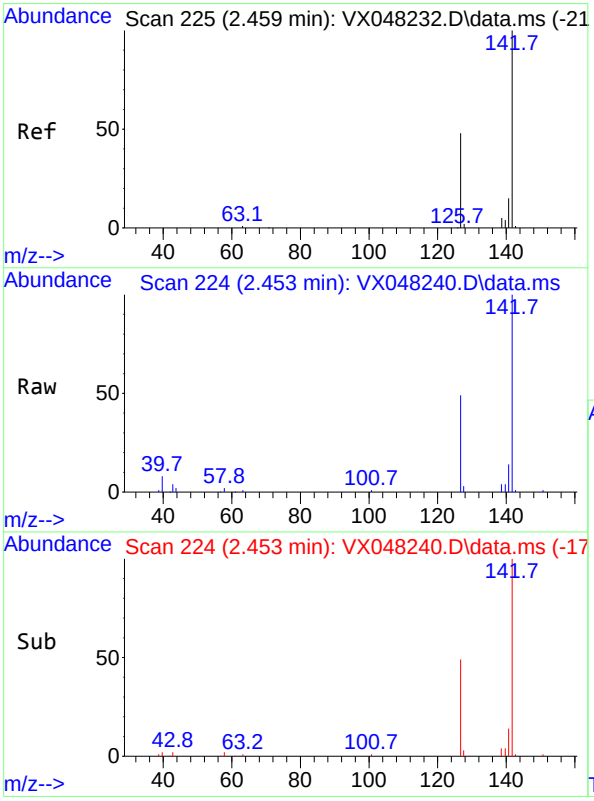
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.302 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion:101 Resp: 26596

Ion	Ratio	Lower	Upper
101	100		
85	43.7	35.6	53.4
151	77.8	58.0	87.0

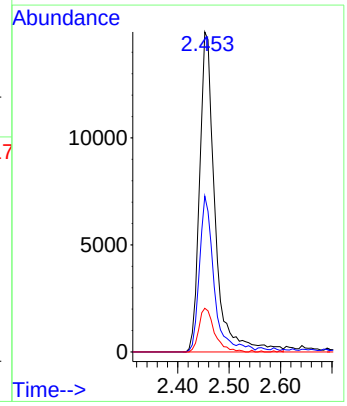


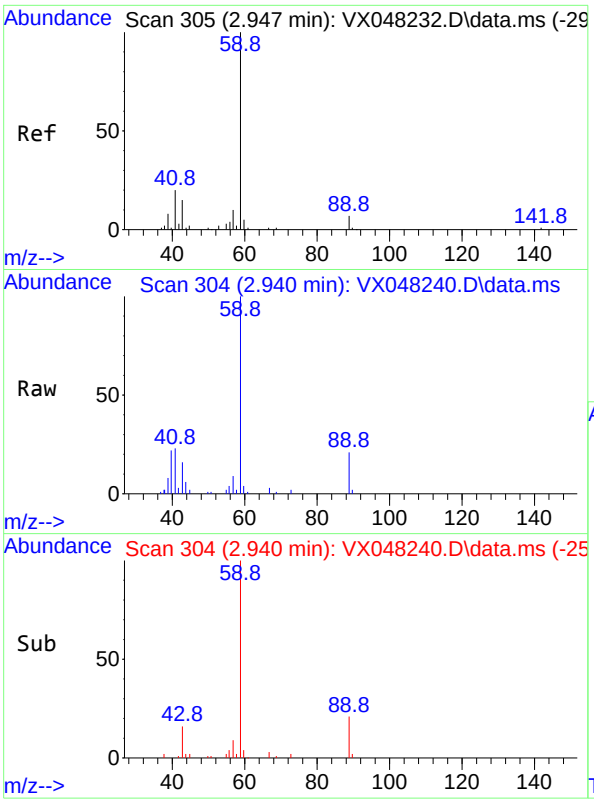


#10
Methyl Iodide
Concen: 17.138 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:142 Resp: 31308

Ion	Ratio	Lower	Upper
142	100		
127	46.2	38.5	57.7
141	13.7	11.6	17.4



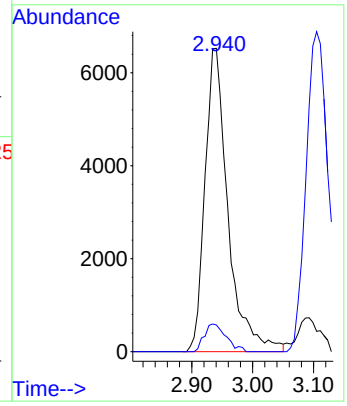


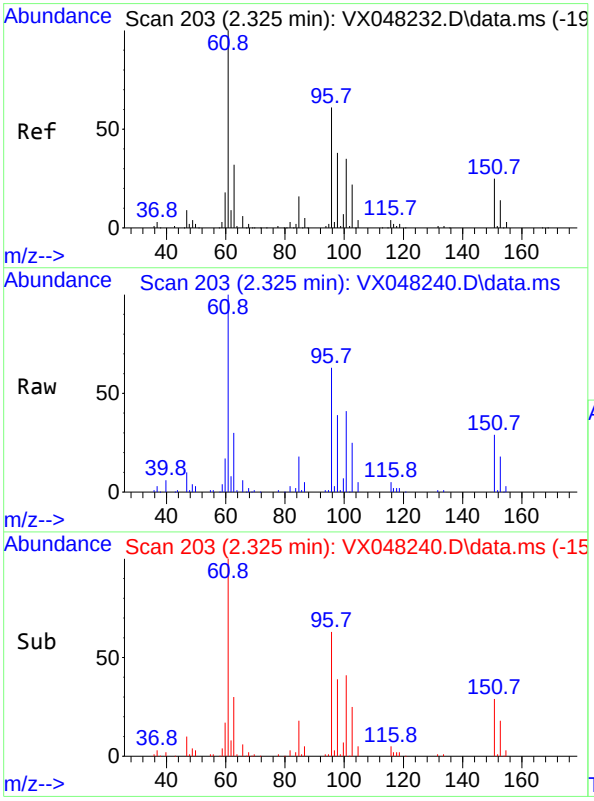
#11
Tert butyl alcohol
Concen: 91.429 ug/l
RT: 2.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 59 Resp: 17139

Ion	Ratio	Lower	Upper
59	100		
57	8.7	8.2	12.4

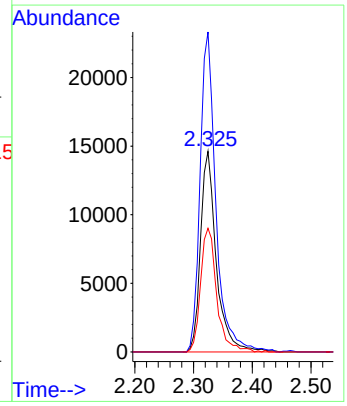


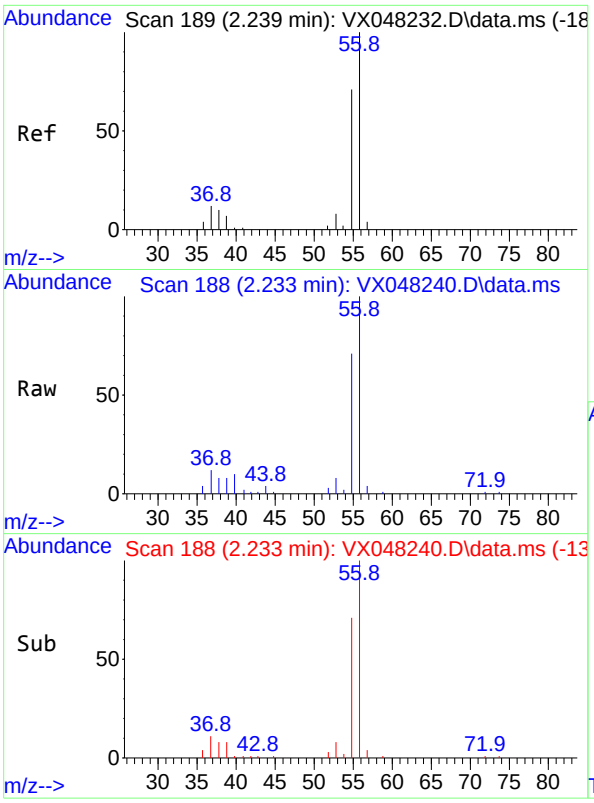


#12
1,1-Dichloroethene
Concen: 19.324 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 96 Resp: 27320

Ion	Ratio	Lower	Upper
96	100		
61	159.5	139.0	208.6
98	61.7	52.4	78.6



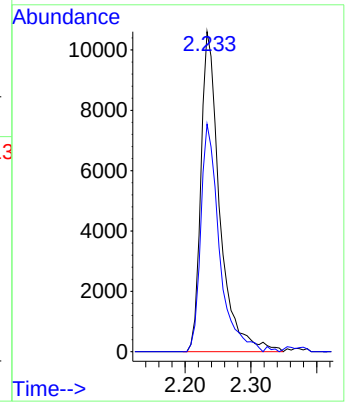


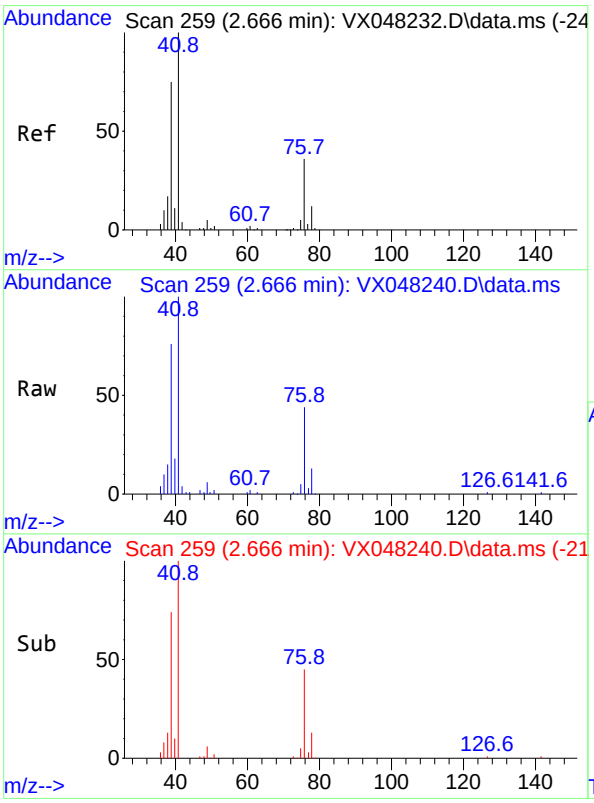
#13
Acrolein
Concen: 110.081 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 56 Resp: 21046

Ion	Ratio	Lower	Upper
56	100		
55	70.4	56.1	84.1

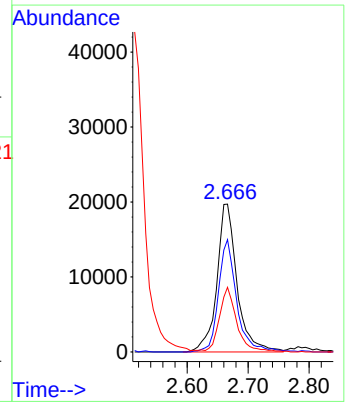


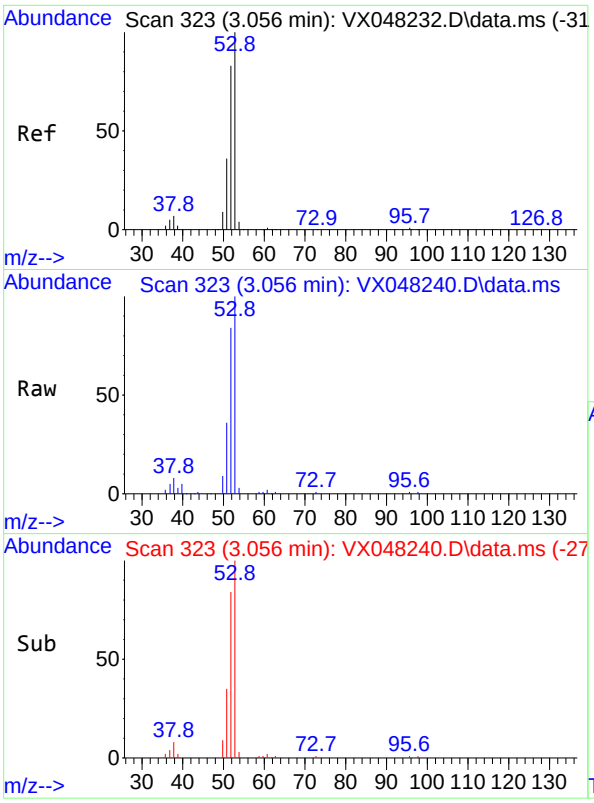


#14
Allyl chloride
Concen: 19.389 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 41 Resp: 45510

Ion	Ratio	Lower	Upper
41	100		
39	68.7	56.0	84.0
76	37.8	27.5	41.3



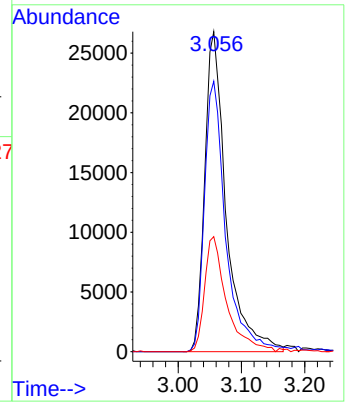


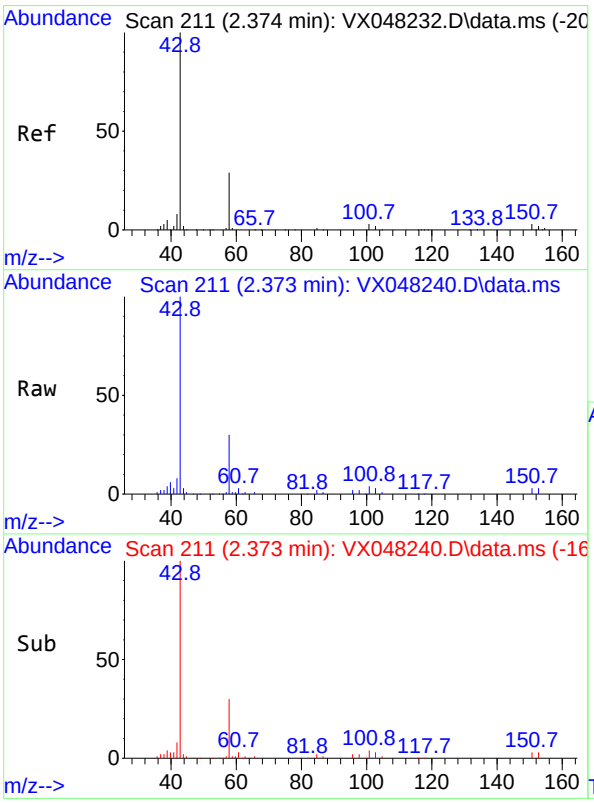
#15
Acrylonitrile
Concen: 93.873 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 53 Resp: 63454

Ion	Ratio	Lower	Upper
53	100		
52	83.9	66.1	99.1
51	36.8	29.0	43.4

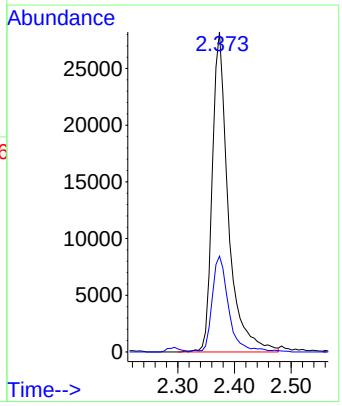


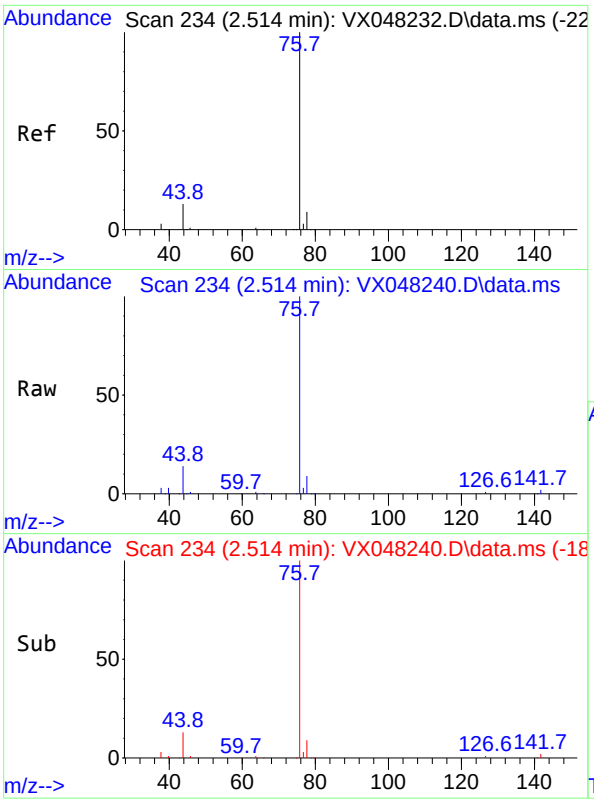


#16
Acetone
Concen: 85.745 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 43 Resp: 55537

Ion	Ratio	Lower	Upper
43	100		
58	29.9	23.4	35.2



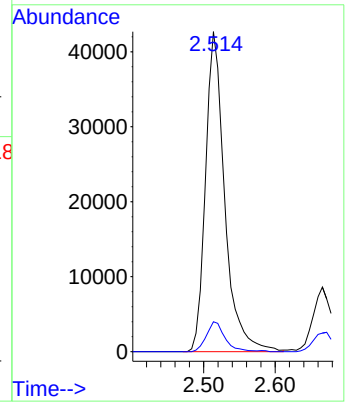


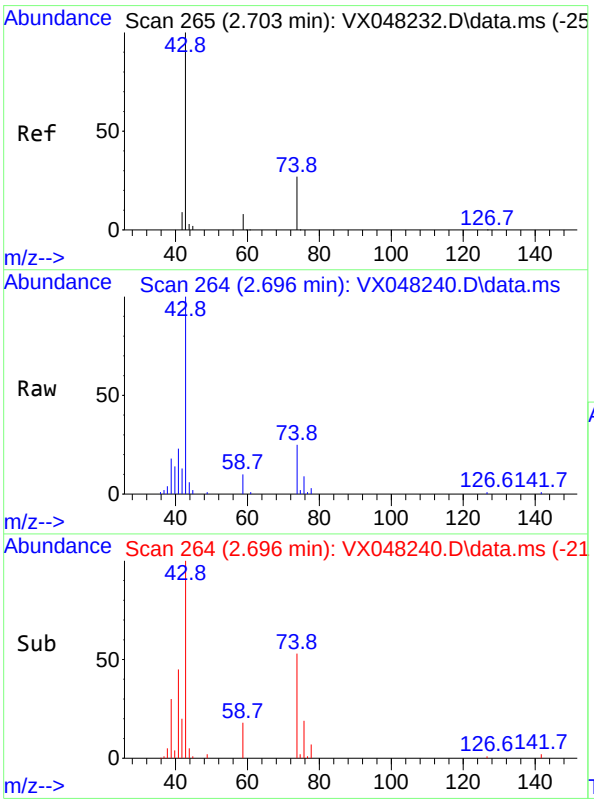
#17
Carbon Disulfide
Concen: 17.877 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 76 Resp: 79653

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.1	10.7

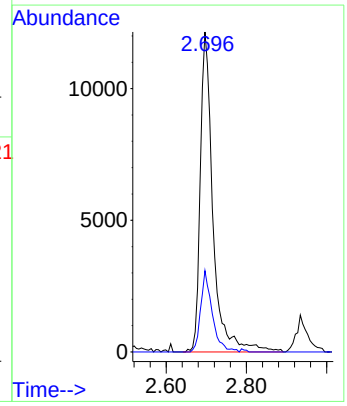


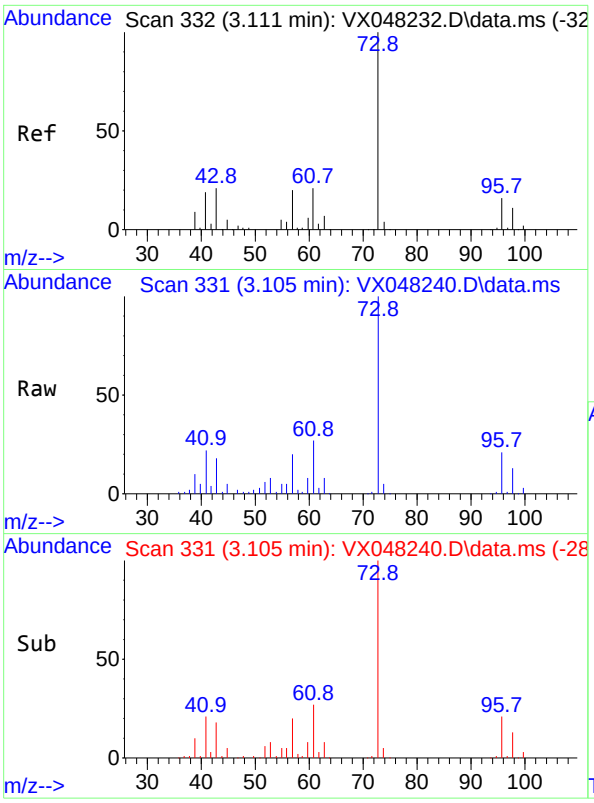


#18
Methyl Acetate
Concen: 19.748 ug/l
RT: 2.696 min Scan# 264
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 43 Resp: 26712

Ion	Ratio	Lower	Upper
43	100		
74	23.0	17.5	26.3



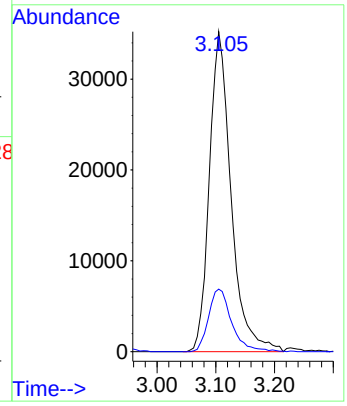


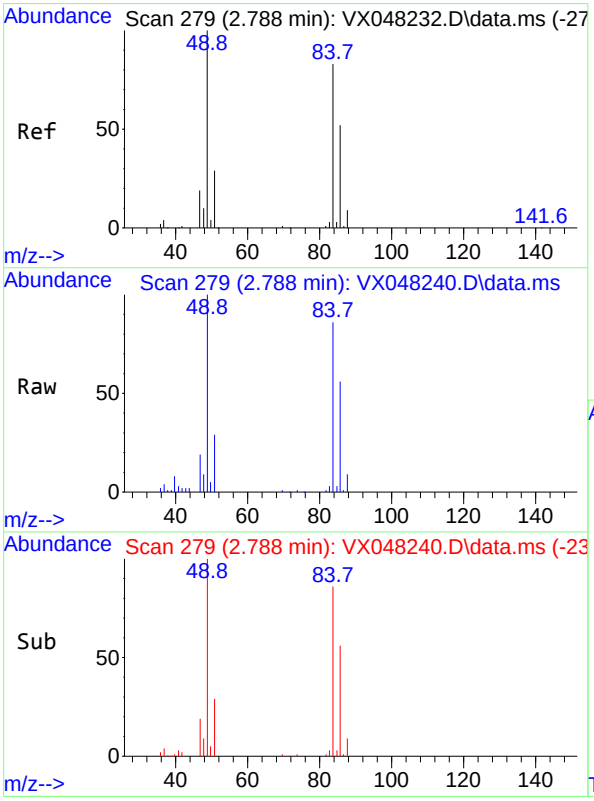
#19
Methyl tert-butyl Ether
Concen: 18.738 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 73 Resp: 90374

Ion	Ratio	Lower	Upper
73	100		
57	19.5	17.7	26.5

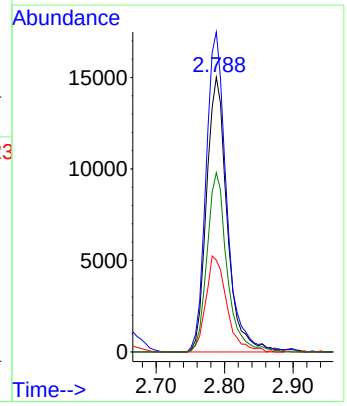


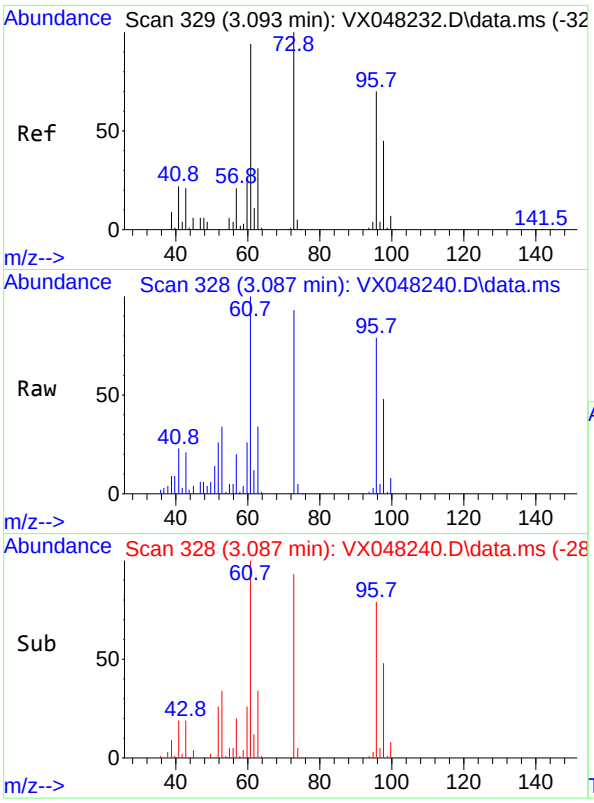


#20
Methylene Chloride
Concen: 19.934 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 84 Resp: 31460

Ion	Ratio	Lower	Upper
84	100		
49	116.5	104.1	156.1
51	33.4	31.3	46.9
86	66.5	51.3	76.9



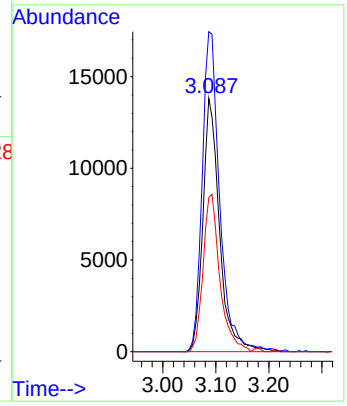


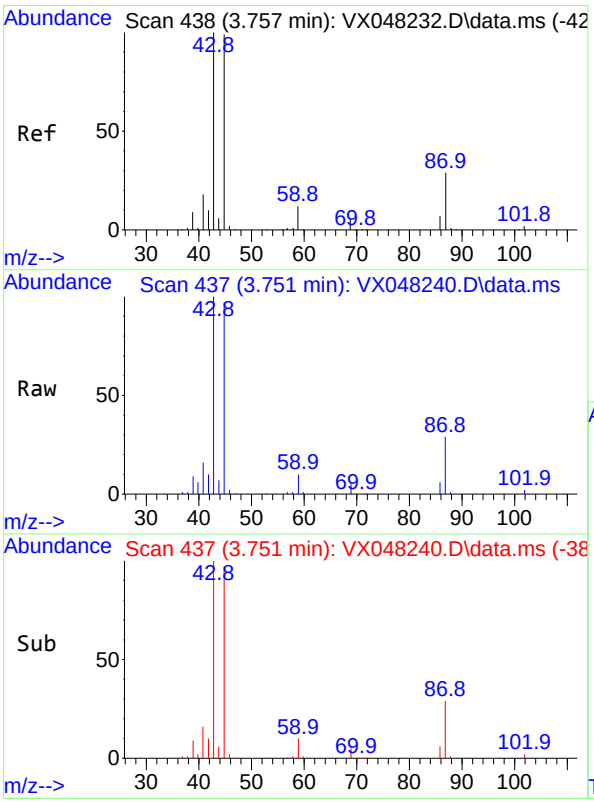
#21
trans-1,2-Dichloroethene
Concen: 19.468 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 96 Resp: 30232

Ion	Ratio	Lower	Upper
96	100		
61	126.3	111.9	167.9
98	60.9	51.2	76.8

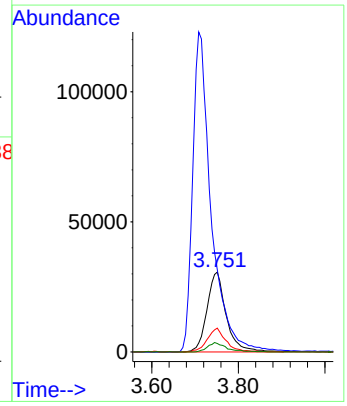


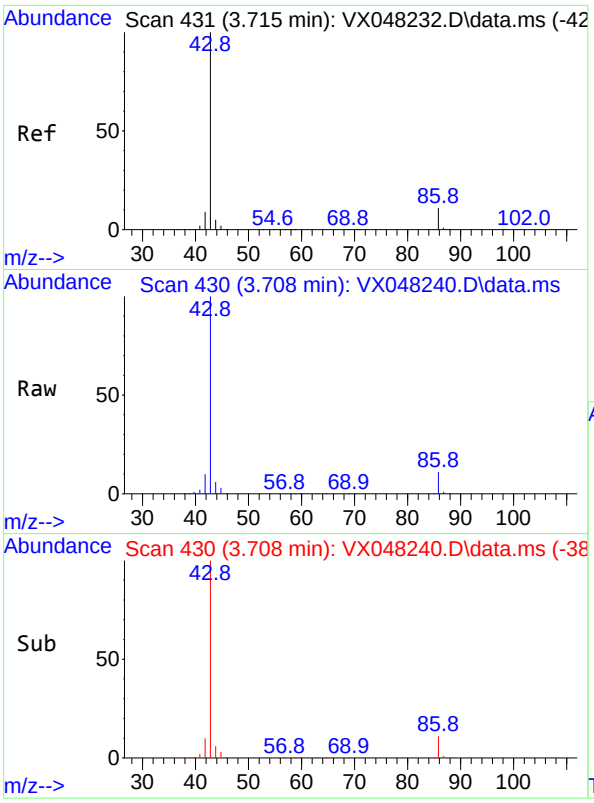


#22
Diisopropyl ether
Concen: 20.141 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 45 Resp: 94293

Ion	Ratio	Lower	Upper
45	100		
43	101.4	89.8	134.8
87	29.8	20.6	31.0
59	10.7	9.1	13.7



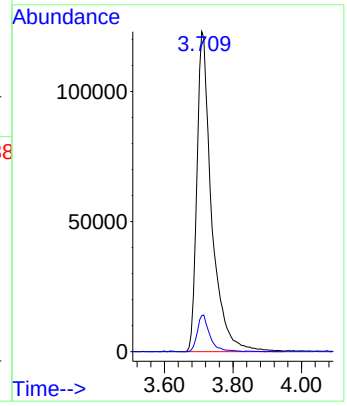


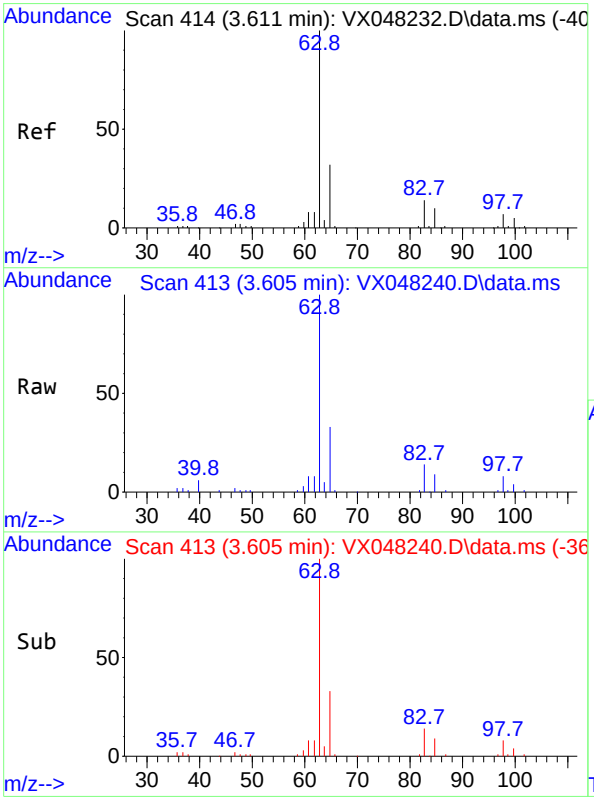
#23
Vinyl Acetate
Concen: 98.349 ug/l
RT: 3.708 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 43 Resp: 367791

Ion	Ratio	Lower	Upper
43	100		
86	11.3	7.9	11.9

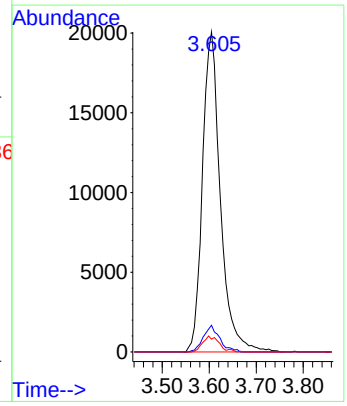


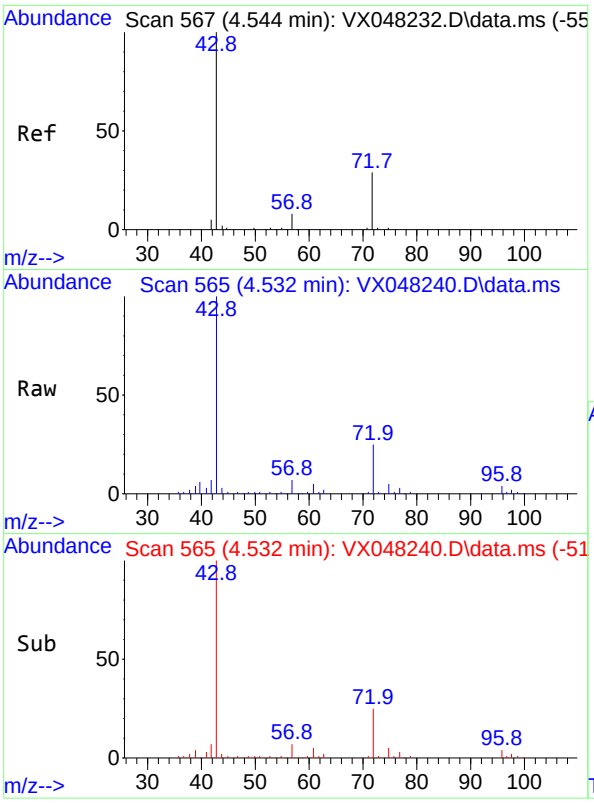


#24
1,1-Dichloroethane
Concen: 18.769 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 63 Resp: 53132

Ion	Ratio	Lower	Upper
63	100		
98	9.3	3.5	10.6
100	4.0	2.1	6.3



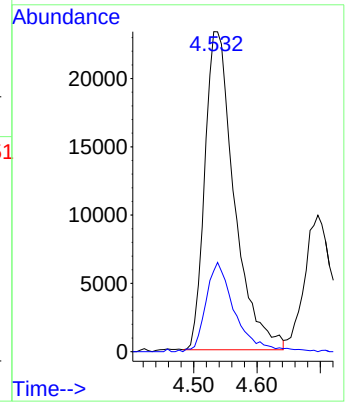


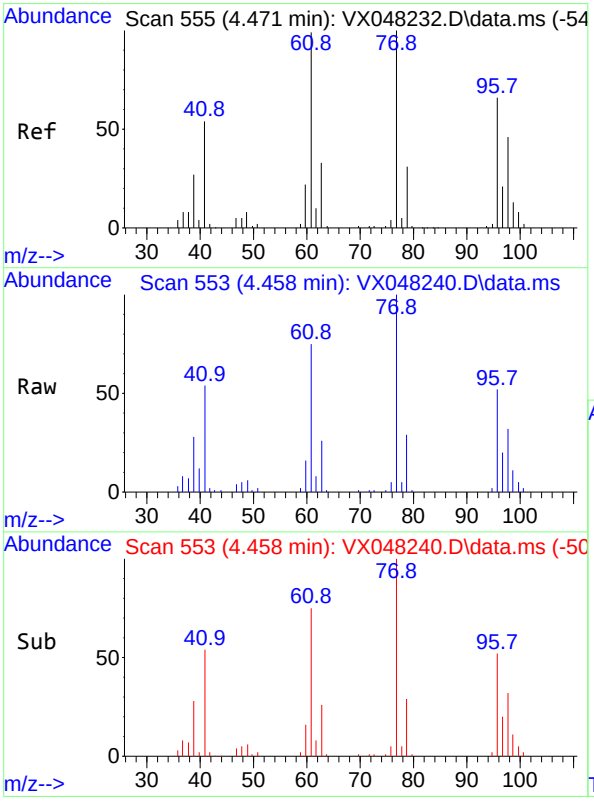
#25
2-Butanone
Concen: 91.980 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 43 Resp: 75407

Ion	Ratio	Lower	Upper
43	100		
72	25.4	19.9	29.9

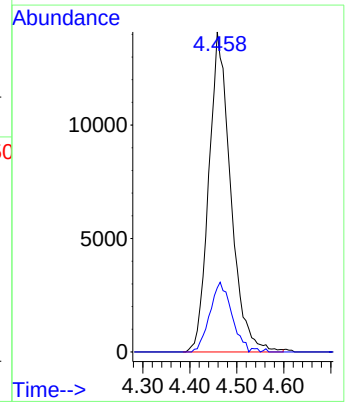


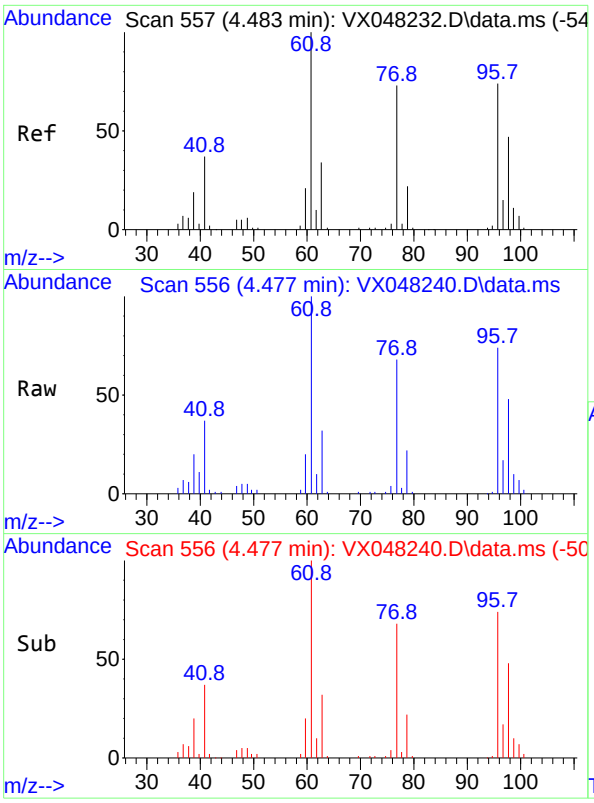


#26
2,2-Dichloropropane
Concen: 17.798 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 77 Resp: 45475

Ion	Ratio	Lower	Upper
77	100		
97	22.1	11.1	33.3



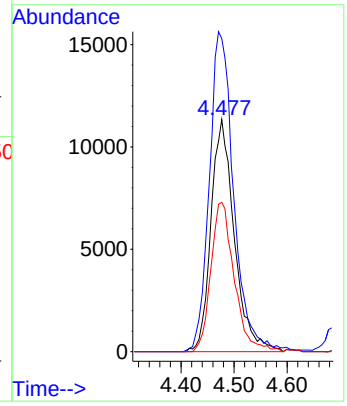


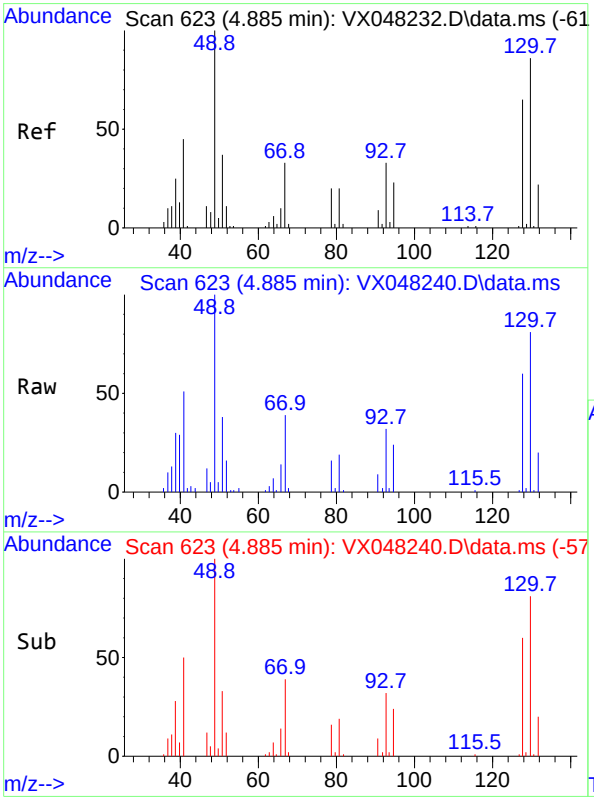
#27
cis-1,2-Dichloroethene
Concen: 19.122 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 96 Resp: 34657

Ion	Ratio	Lower	Upper
96	100		
61	144.5	0.0	294.2
98	64.3	0.0	128.4

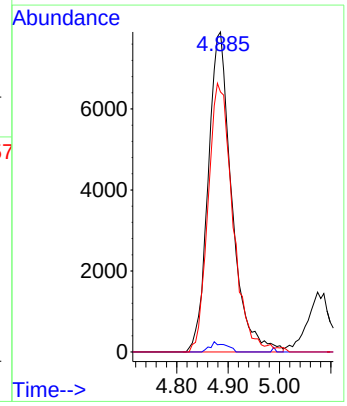


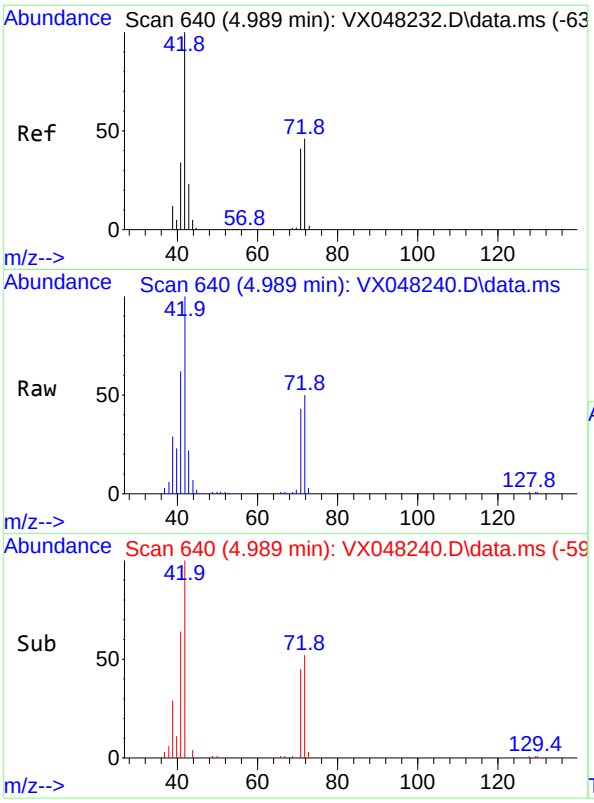


#28
Bromochloromethane
Concen: 21.434 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 49 Resp: 25158

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.4
130	88.3	59.3	88.9



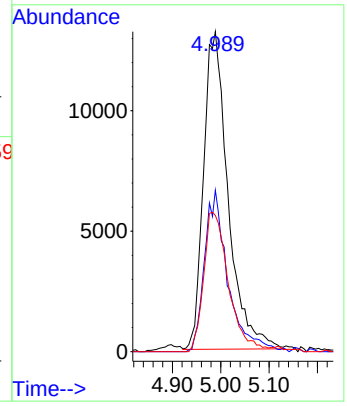


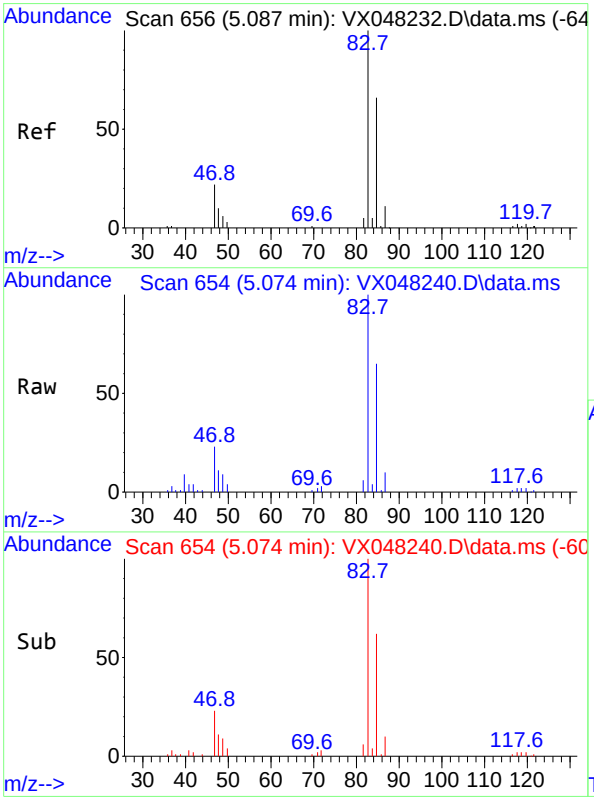
#29
Tetrahydrofuran
Concen: 94.500 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 42 Resp: 46399

Ion	Ratio	Lower	Upper
42	100		
72	48.5	35.3	52.9
71	44.5	32.2	48.4

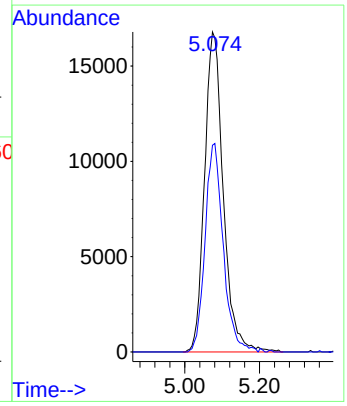


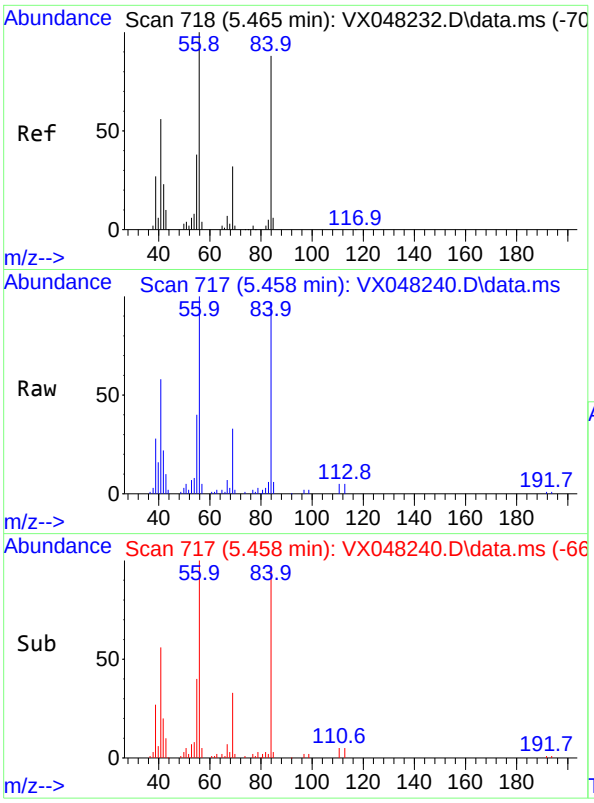


#30
Chloroform
Concen: 19.287 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 83 Resp: 58330

Ion	Ratio	Lower	Upper
83	100		
85	64.6	50.1	75.1



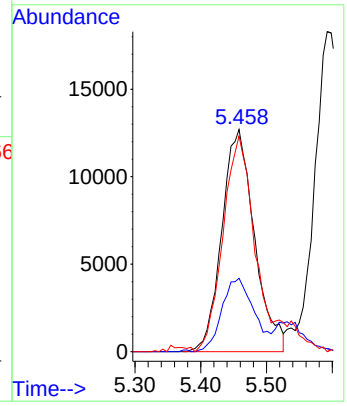


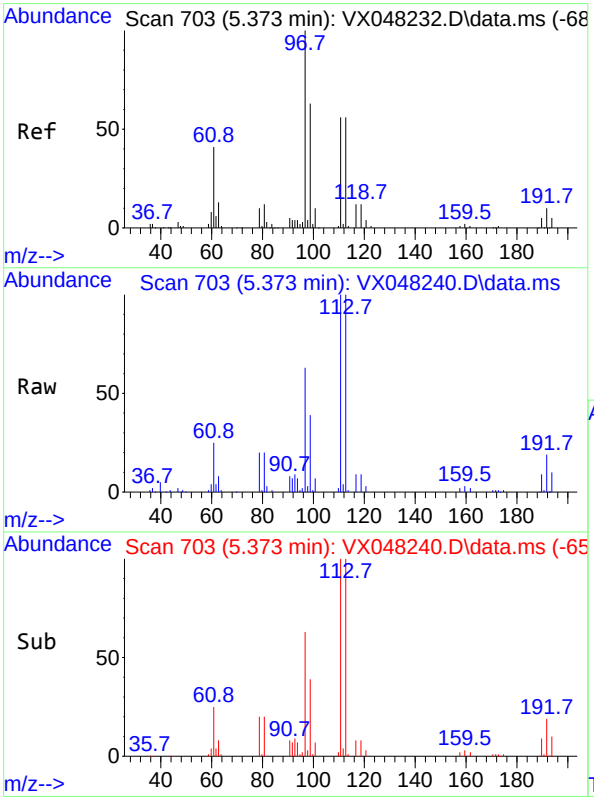
#31
Cyclohexane
Concen: 18.711 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 56 Resp: 43852

Ion	Ratio	Lower	Upper
56	100		
69	32.4	23.0	34.6
84	95.2	64.6	97.0

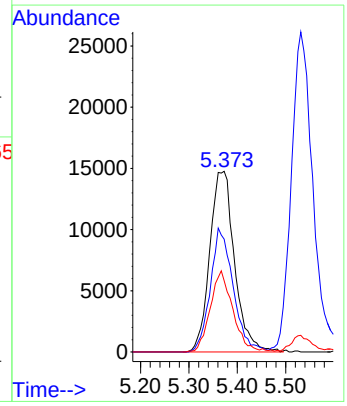


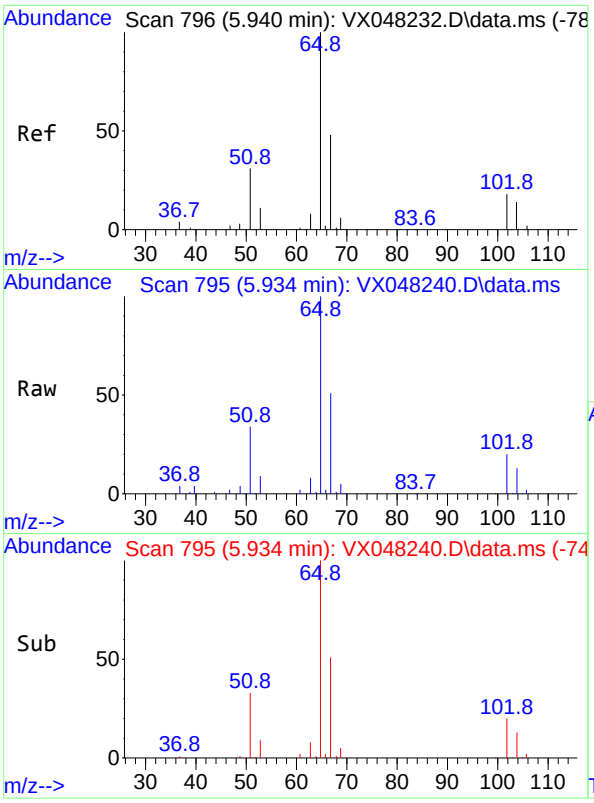


#32
1,1,1-Trichloroethane
Concen: 18.824 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 97 Resp: 52467

Ion	Ratio	Lower	Upper
97	100		
99	63.3	51.7	77.5
61	41.1	34.8	52.2



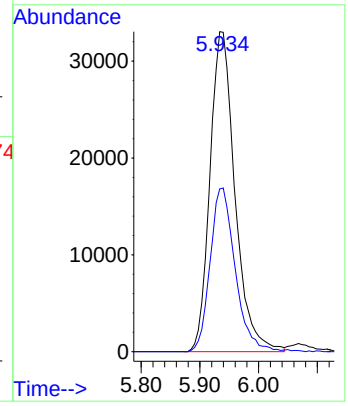


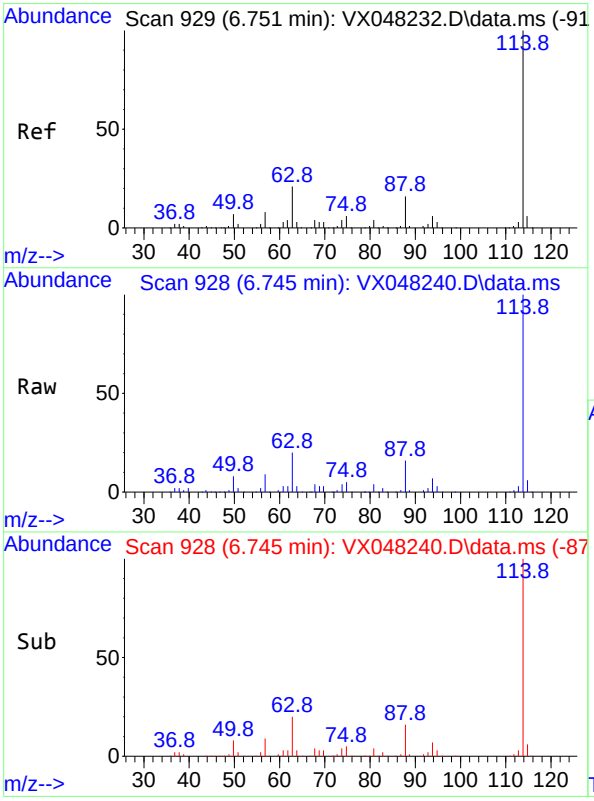
#33
1,2-Dichloroethane-d4
Concen: 51.728 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 65 Resp: 97664

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	105.0

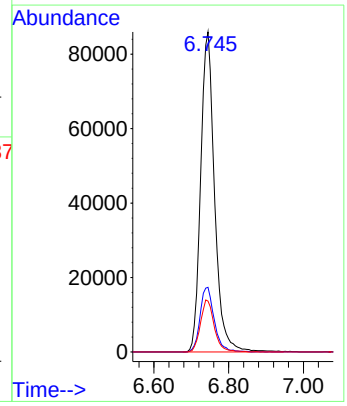


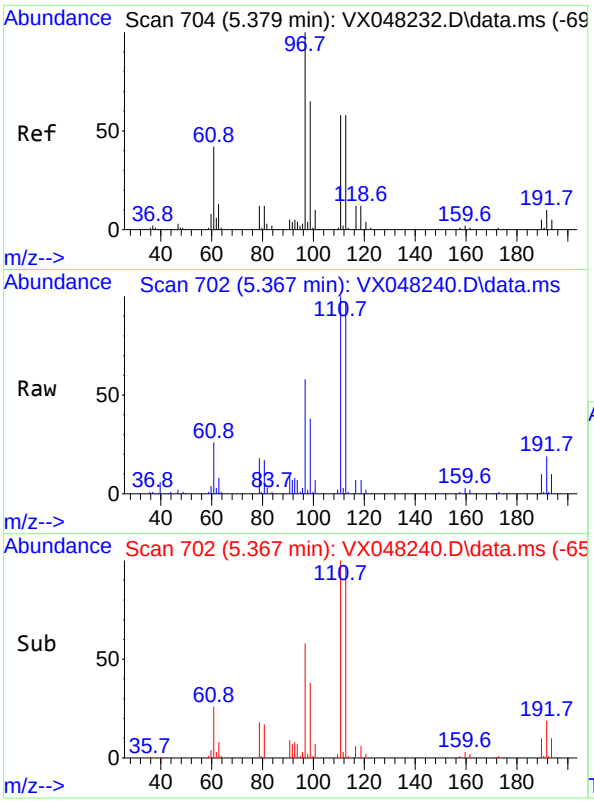


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:114 Resp: 221833

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	43.2
88	15.9	0.0	33.6



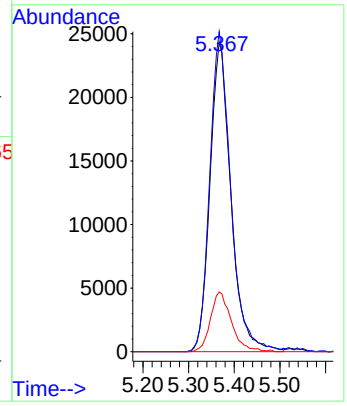


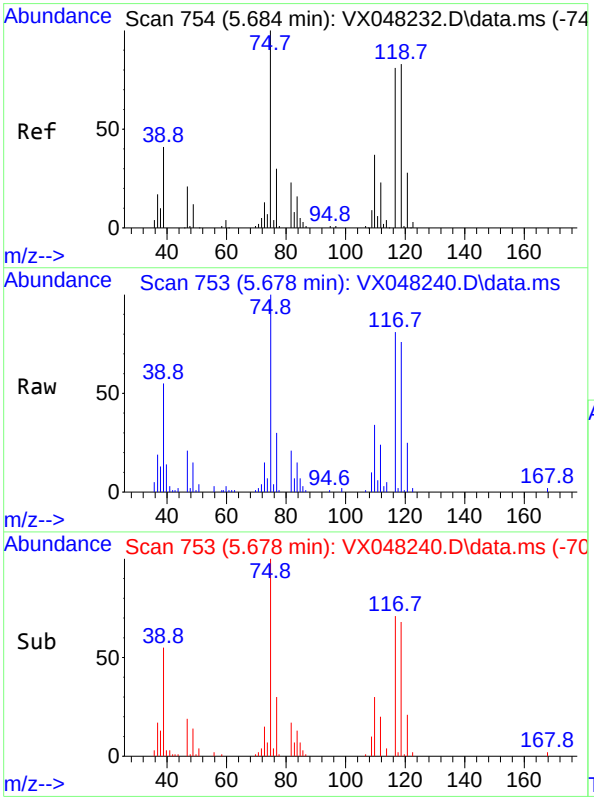
#35
Dibromofluoromethane
Concen: 51.237 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion:113 Resp: 77595

Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.2	123.4
192	19.2	15.1	22.7

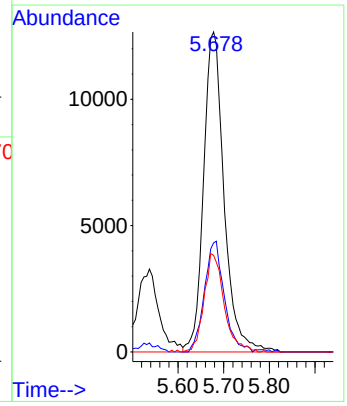


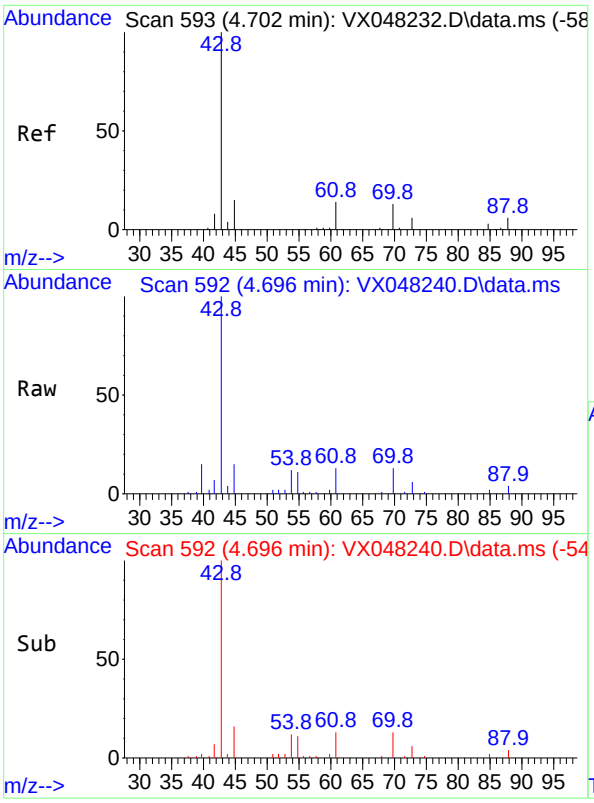


#36
1,1-Dichloropropene
Concen: 18.319 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 75 Resp: 39432

Ion	Ratio	Lower	Upper
75	100		
110	33.5	17.7	53.1
77	30.0	24.3	36.5



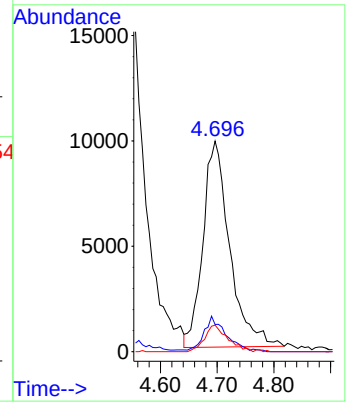


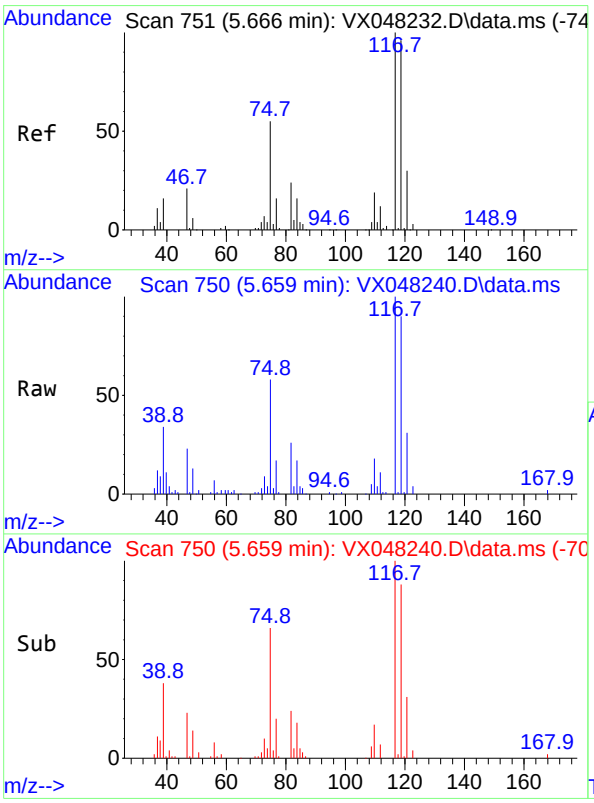
#37
Ethyl Acetate
Concen: 17.952 ug/l
RT: 4.696 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 43 Resp: 32030

Ion	Ratio	Lower	Upper
43	100		
61	14.3	10.6	15.8
70	11.0	7.8	11.6

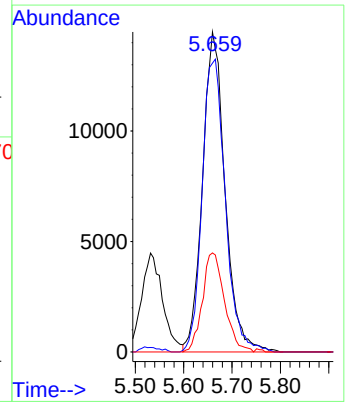


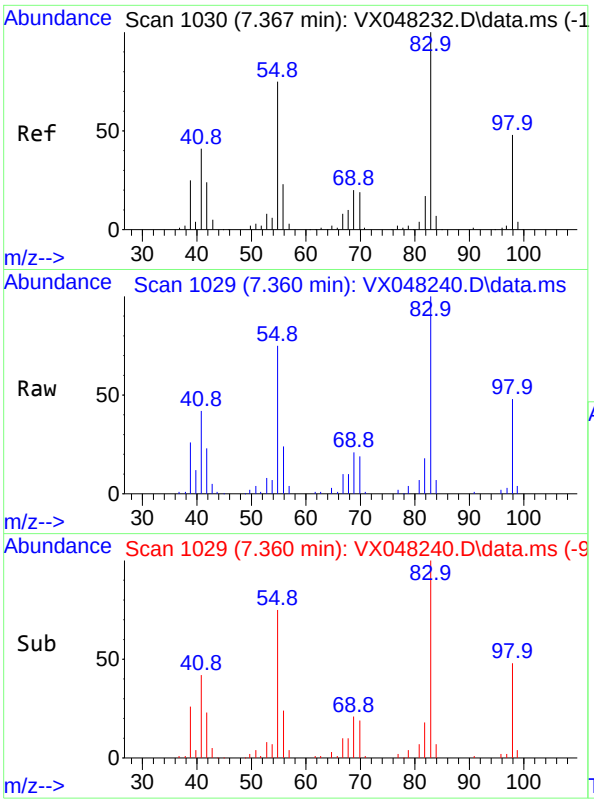


#38
Carbon Tetrachloride
Concen: 17.648 ug/l
RT: 5.659 min Scan# 750
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:117 Resp: 46868

Ion	Ratio	Lower	Upper
117	100		
119	90.2	77.2	115.8
121	31.0	24.8	37.2



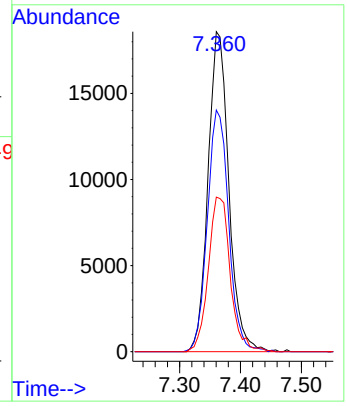


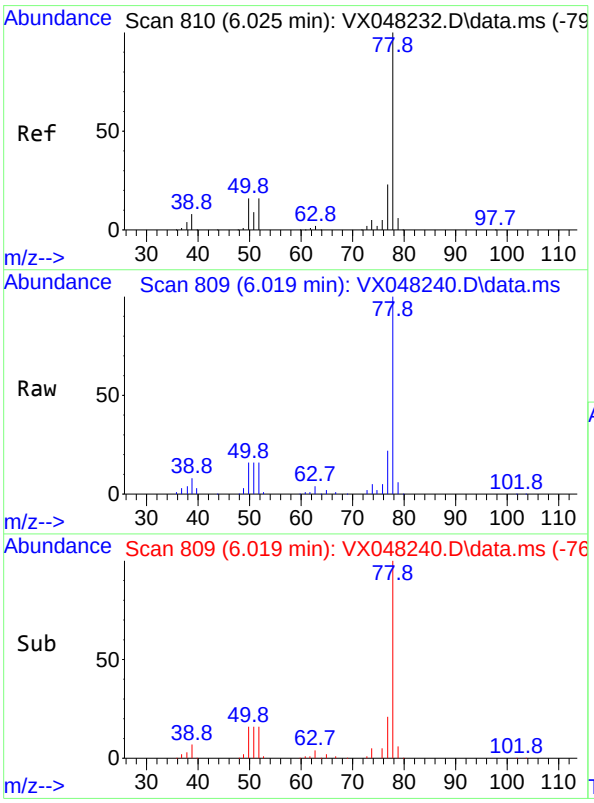
#39
Methylcyclohexane
Concen: 17.331 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 83 Resp: 44057

Ion	Ratio	Lower	Upper
83	100		
55	75.5	66.2	99.2
98	48.3	38.9	58.3

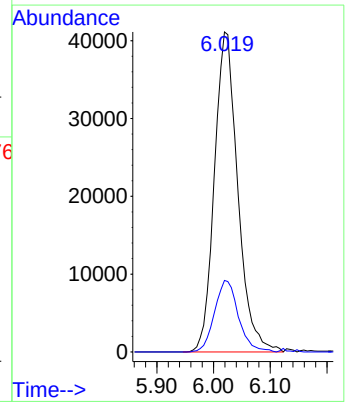


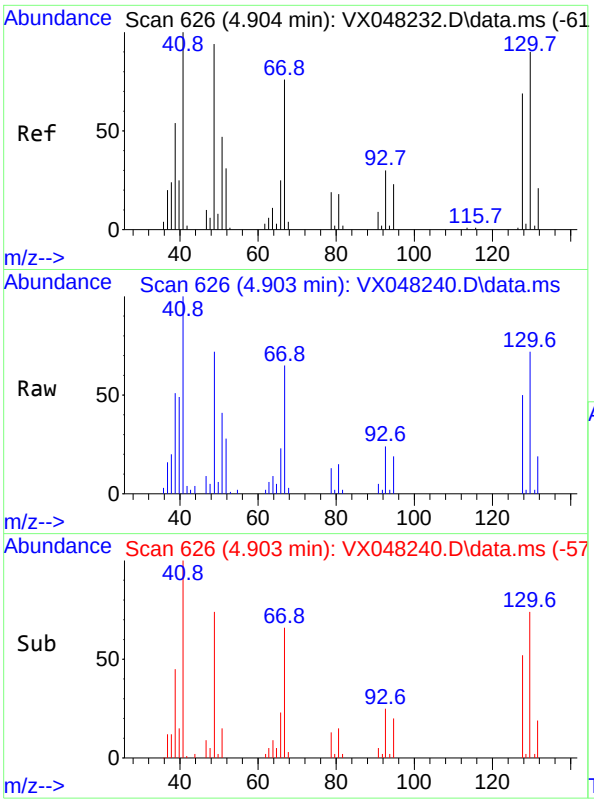


#40
Benzene
Concen: 18.847 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 78 Resp: 117785

Ion	Ratio	Lower	Upper
78	100		
77	22.4	19.3	28.9



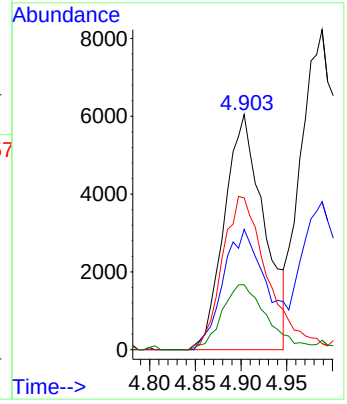


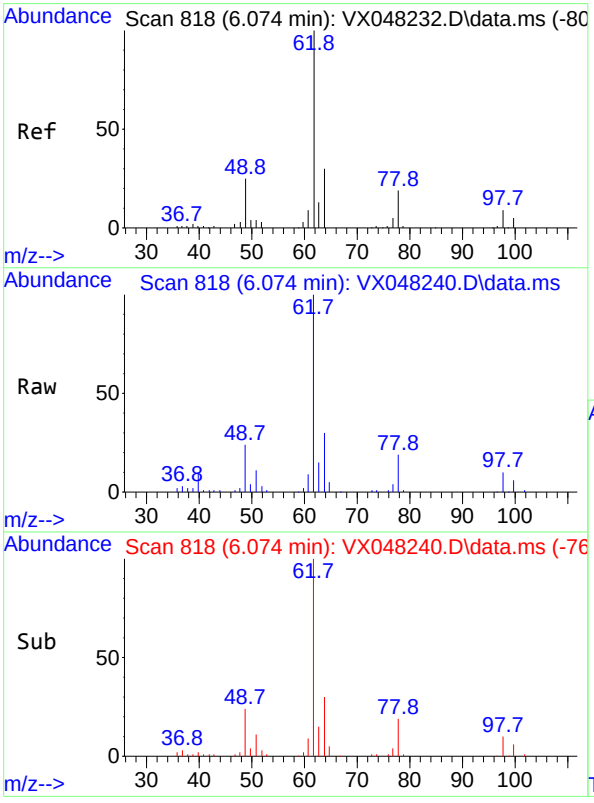
#41
Methacrylonitrile
Concen: 19.499 ug/l
RT: 4.903 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 41 Resp: 18270

Ion	Ratio	Lower	Upper
41	100		
39	55.0	44.0	66.0
67	74.0	58.7	88.1
52	31.2	25.9	38.9

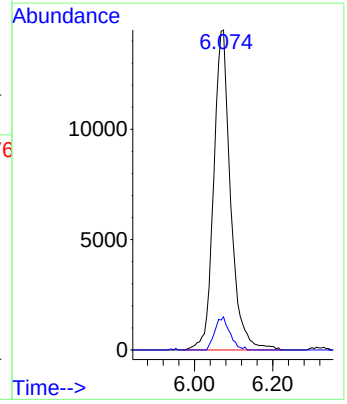


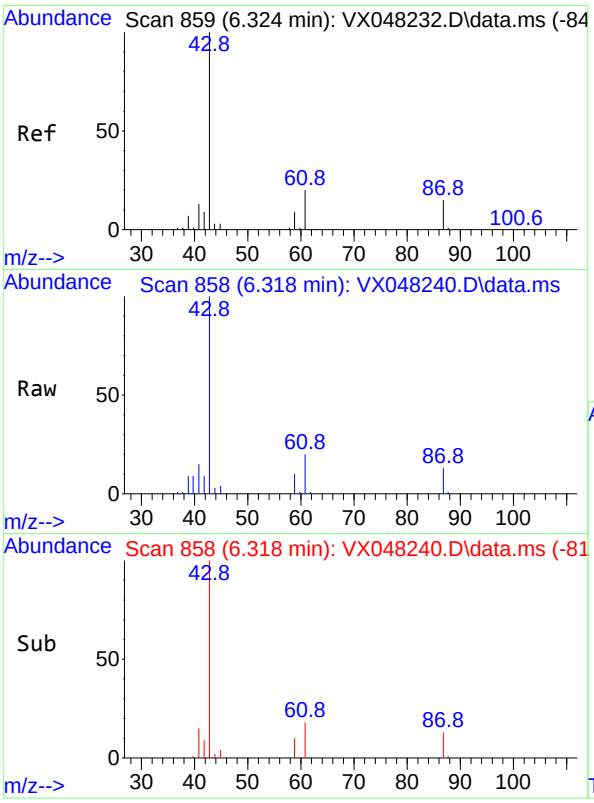


#42
1,2-Dichloroethane
Concen: 18.813 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 62 Resp: 43384

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	17.2



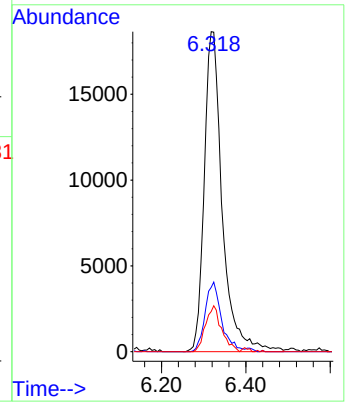


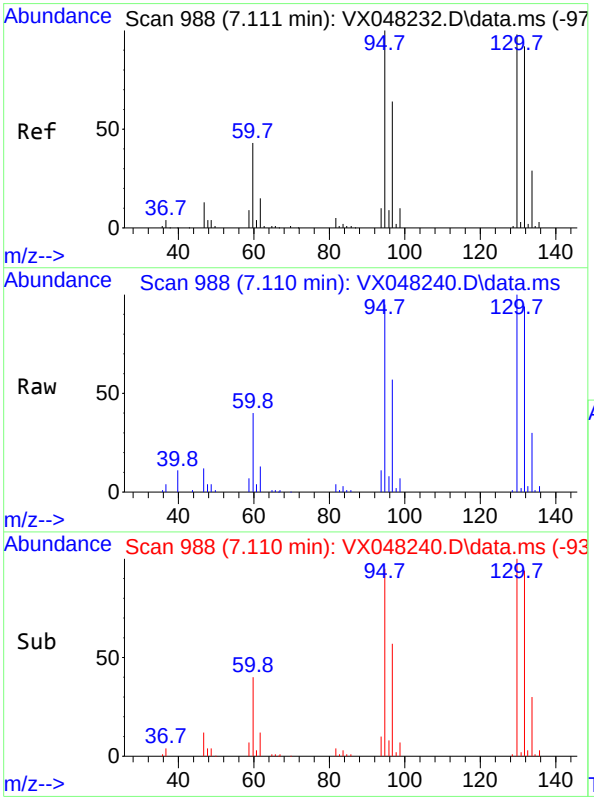
#43
Isopropyl Acetate
Concen: 18.935 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 43 Resp: 55493

Ion	Ratio	Lower	Upper
43	100		
61	19.9	14.9	22.3
87	12.8	9.4	14.2

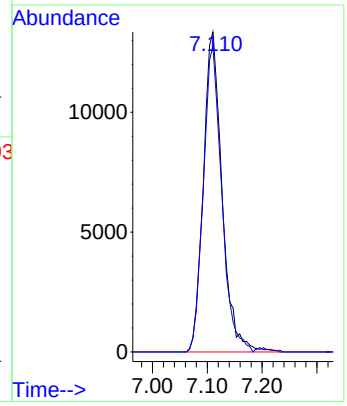


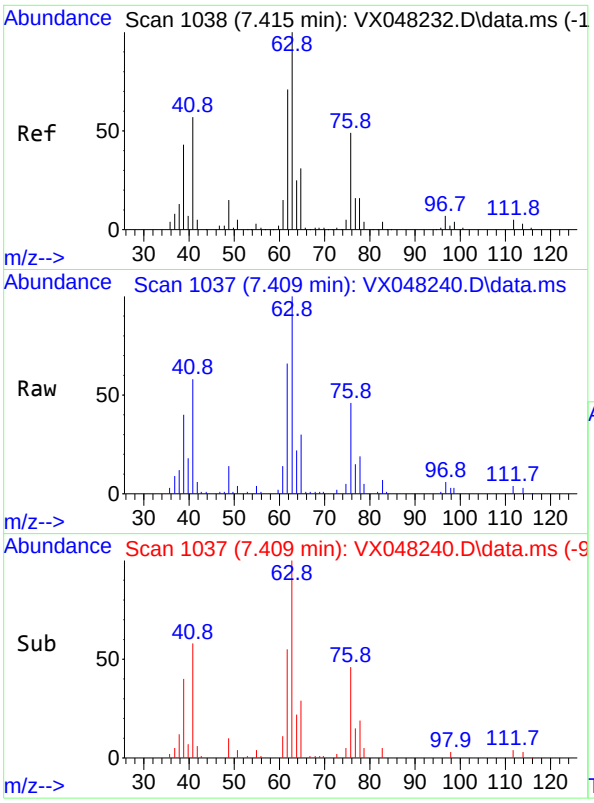


#44
Trichloroethene
Concen: 19.165 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:130 Resp: 31625

Ion	Ratio	Lower	Upper
130	100		
95	95.5	0.0	200.6



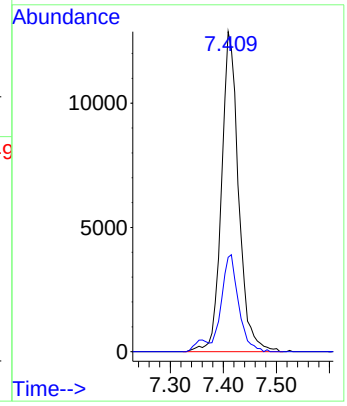


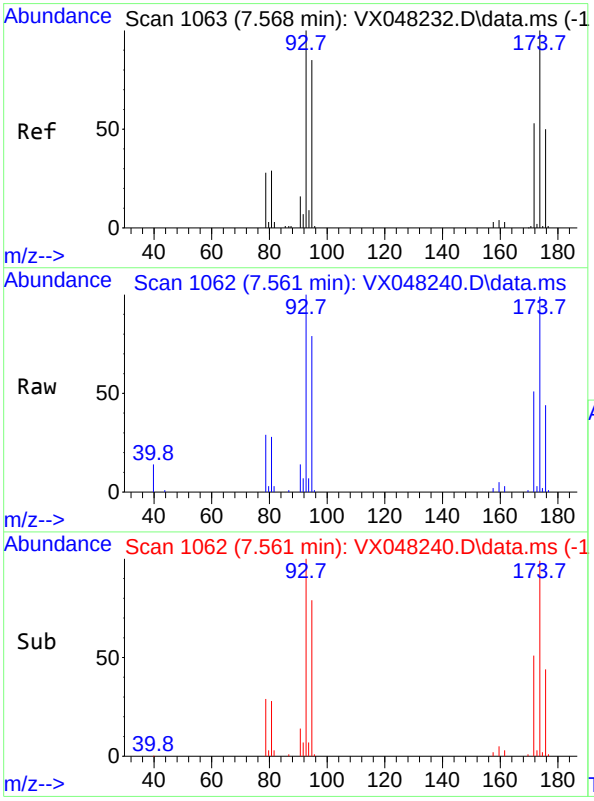
#45
1,2-Dichloropropane
Concen: 19.430 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 63 Resp: 28870

Ion	Ratio	Lower	Upper
63	100		
65	29.5	24.1	36.1

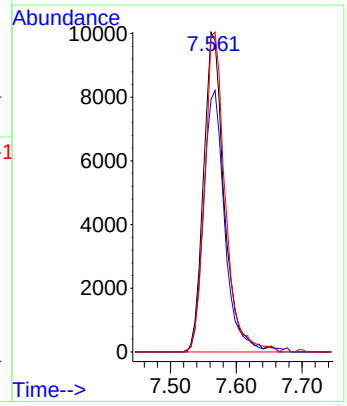


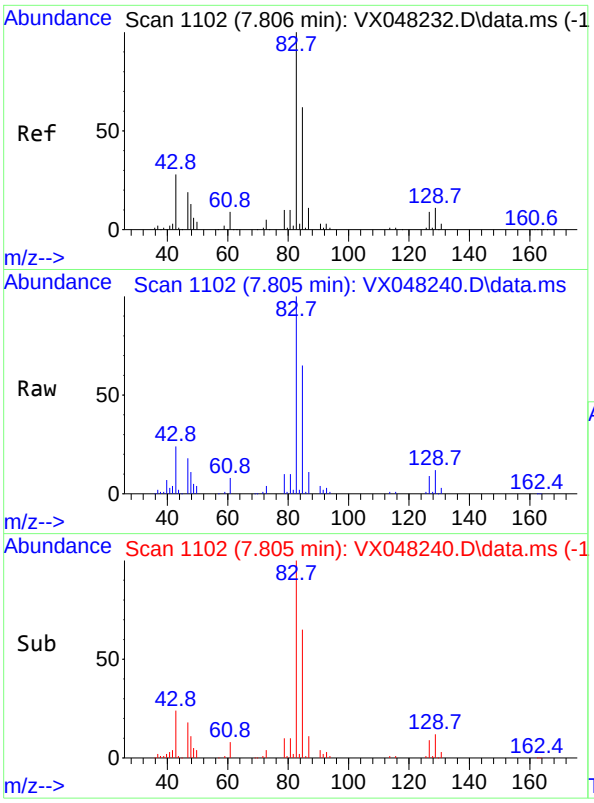


#46
Dibromomethane
Concen: 18.903 ug/l
RT: 7.561 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 93 Resp: 21882

Ion	Ratio	Lower	Upper
93	100		
95	83.1	65.9	98.9
174	99.3	71.7	107.5



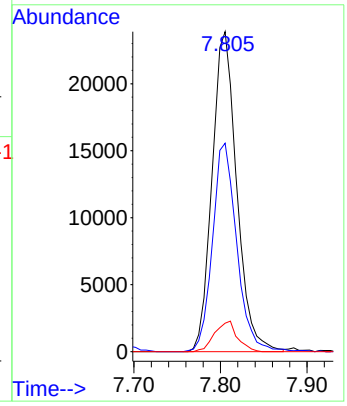


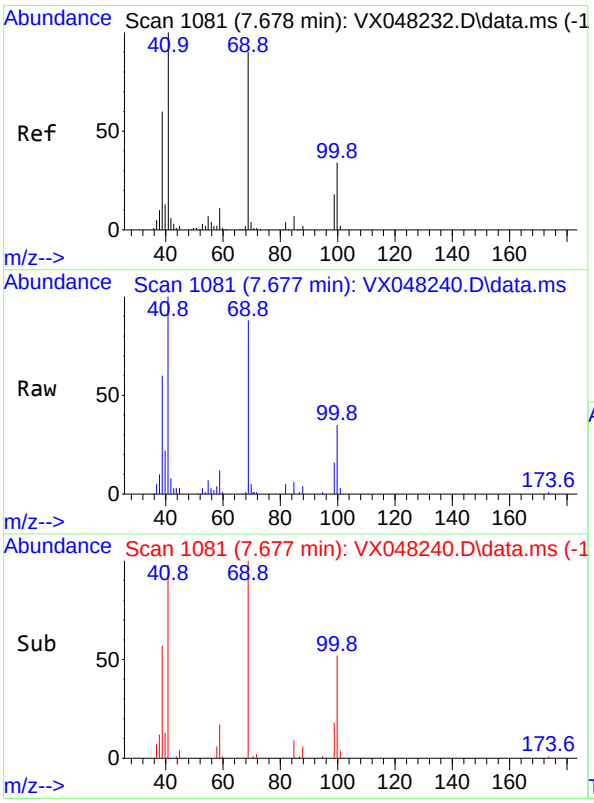
#47
Bromodichloromethane
Concen: 18.904 ug/l
RT: 7.805 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 83 Resp: 47249

Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.2	78.4
127	8.9	7.3	10.9

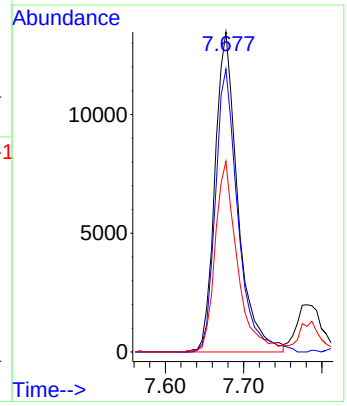


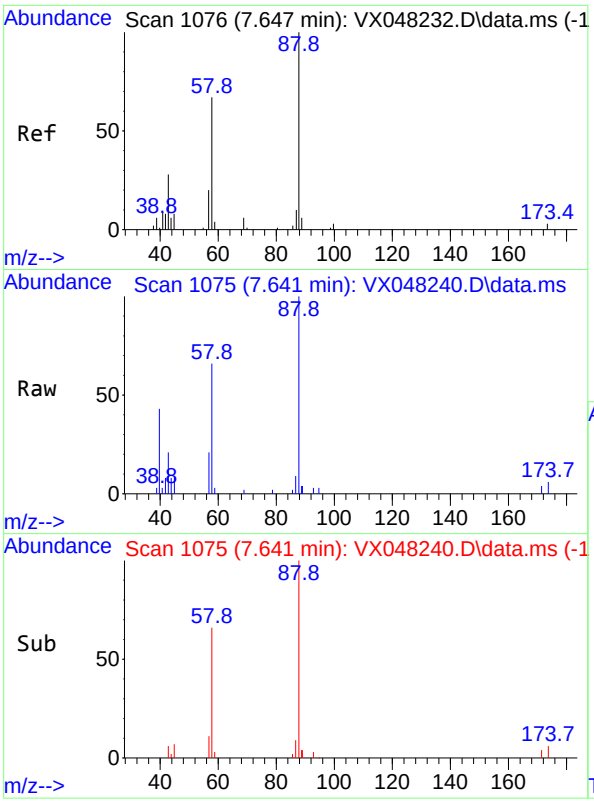


#48
Methyl methacrylate
Concen: 18.432 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 41 Resp: 27258

Ion	Ratio	Lower	Upper
41	100		
69	87.4	63.4	95.0
39	58.8	47.1	70.7



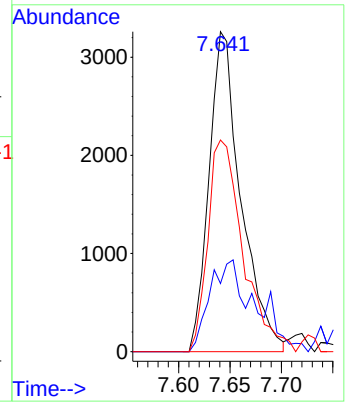


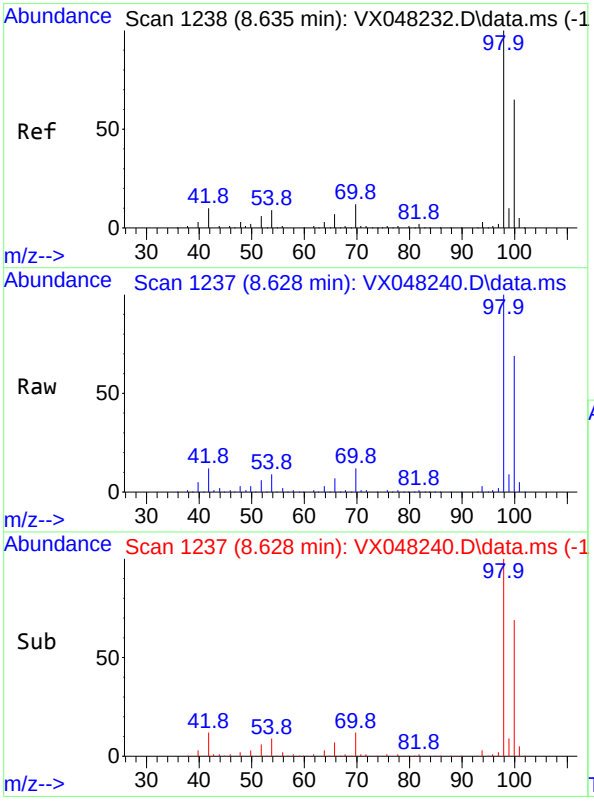
#49
1,4-Dioxane
Concen: 360.230 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 88 Resp: 7038

Ion	Ratio	Lower	Upper
88	100		
43	40.7	35.0	52.4
58	72.9	61.9	92.9

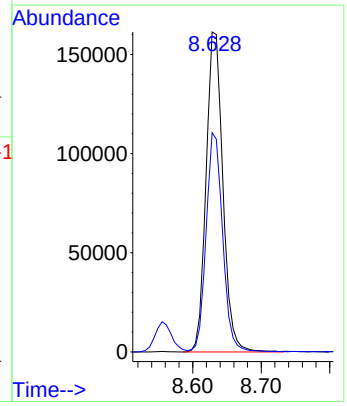


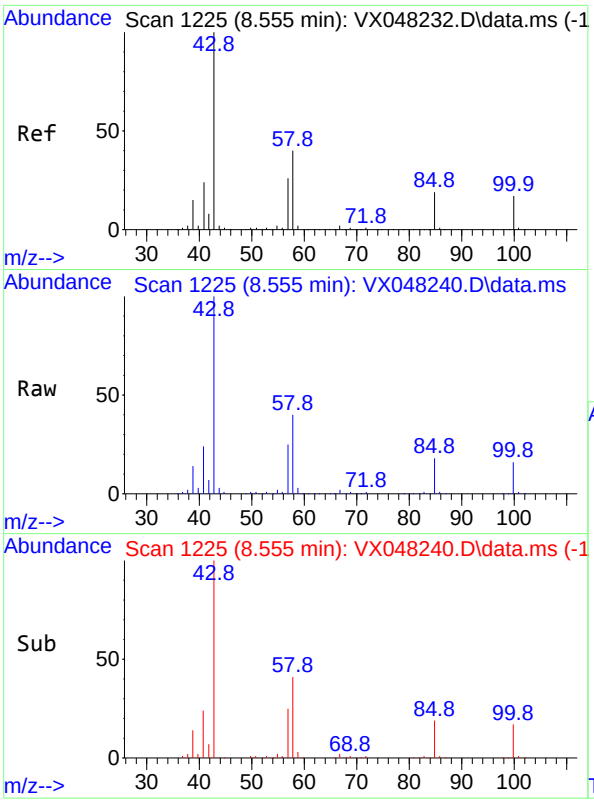


#50
Toluene-d8
Concen: 51.943 ug/l
RT: 8.628 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 98 Resp: 275727

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4



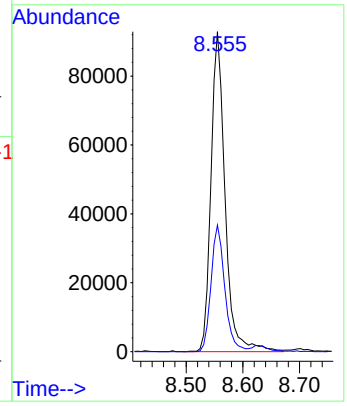


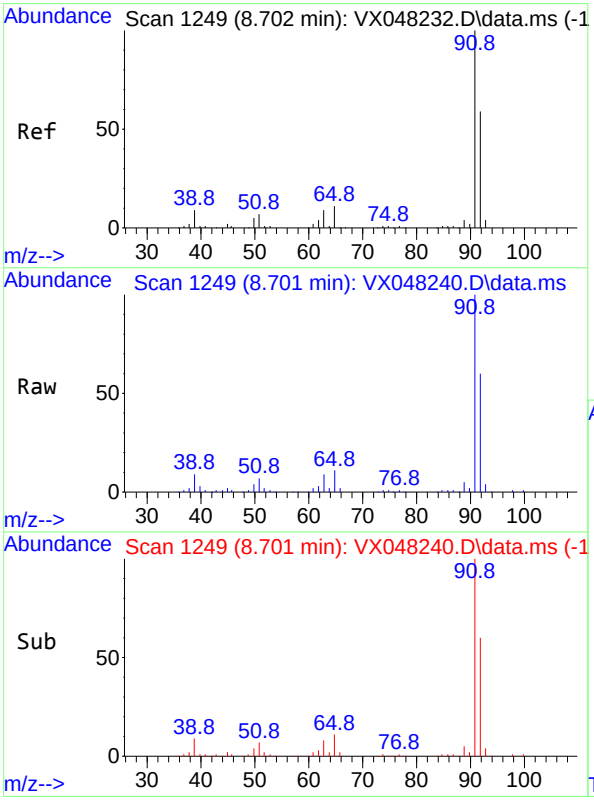
#51
4-Methyl-2-Pentanone
Concen: 94.846 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 43 Resp: 160265

Ion	Ratio	Lower	Upper
43	100		
58	38.5	29.5	44.3

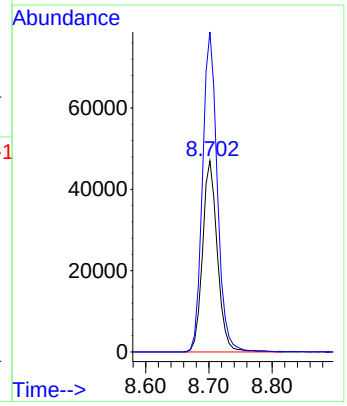


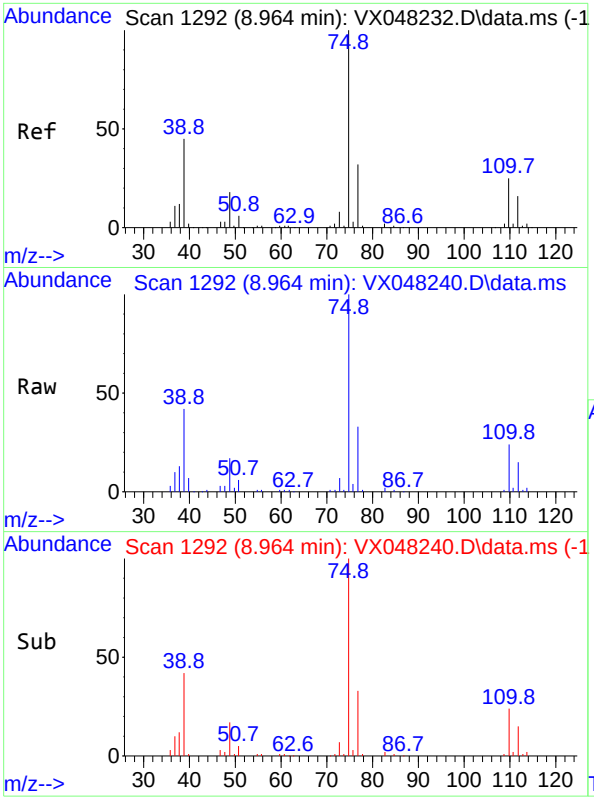


#52
Toluene
Concen: 19.263 ug/l
RT: 8.701 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 92 Resp: 76478

Ion	Ratio	Lower	Upper
92	100		
91	167.7	136.1	204.1



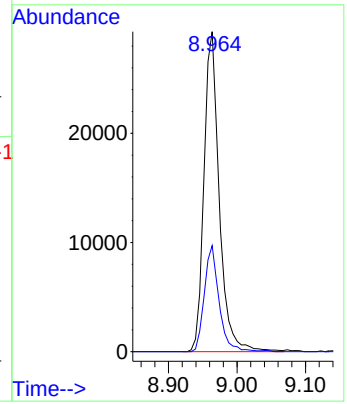


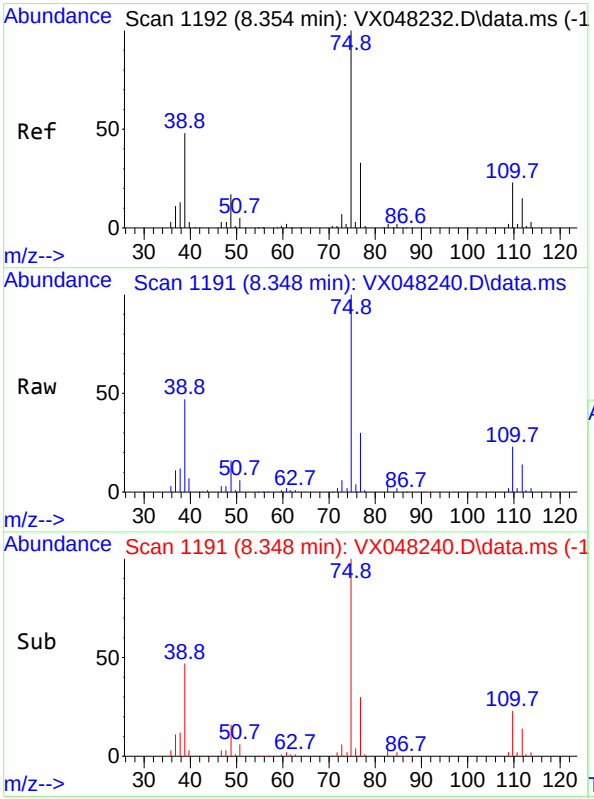
#53
t-1,3-Dichloropropene
Concen: 18.884 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 75 Resp: 45485

Ion	Ratio	Lower	Upper
75	100		
77	33.1	25.0	37.6

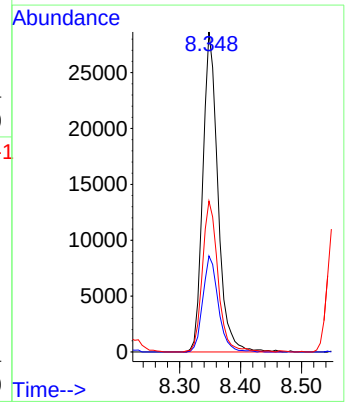


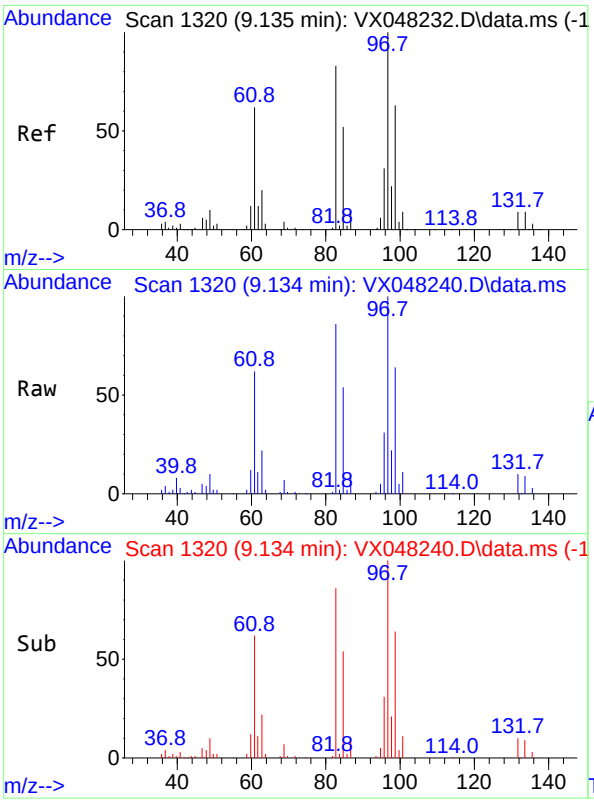


#54
cis-1,3-Dichloropropene
Concen: 18.953 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 75 Resp: 49253

Ion	Ratio	Lower	Upper
75	100		
77	30.0	24.9	37.3
39	54.3	42.6	64.0



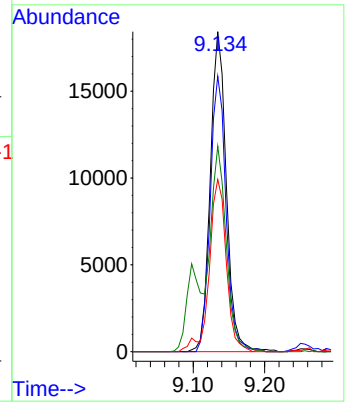


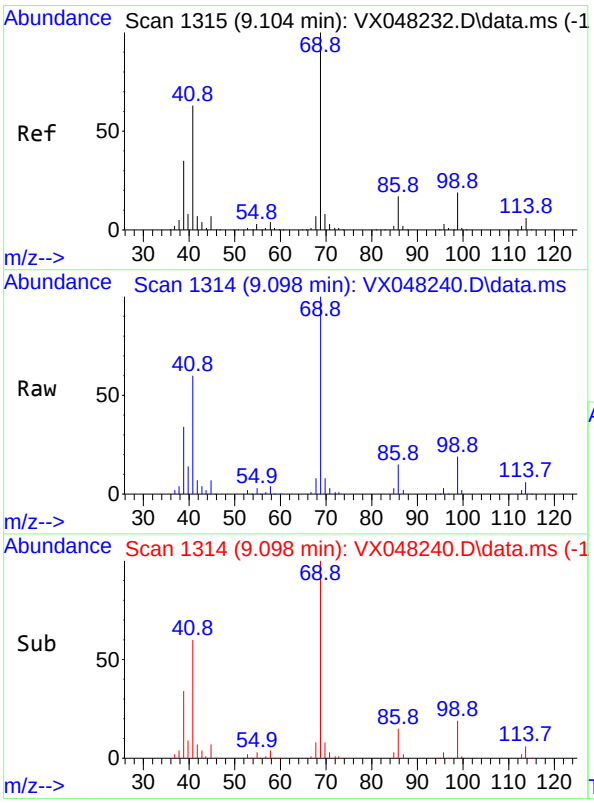
#55
1,1,2-Trichloroethane
Concen: 19.537 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 97 Resp: 28845

Ion	Ratio	Lower	Upper
97	100		
83	86.1	70.6	105.8
85	53.8	45.0	67.6
99	64.2	50.9	76.3

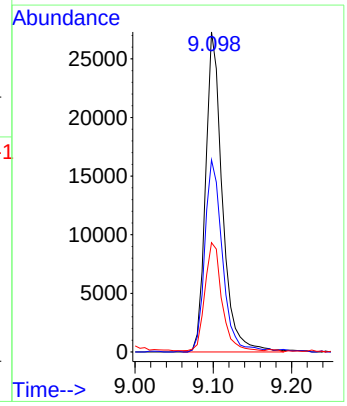


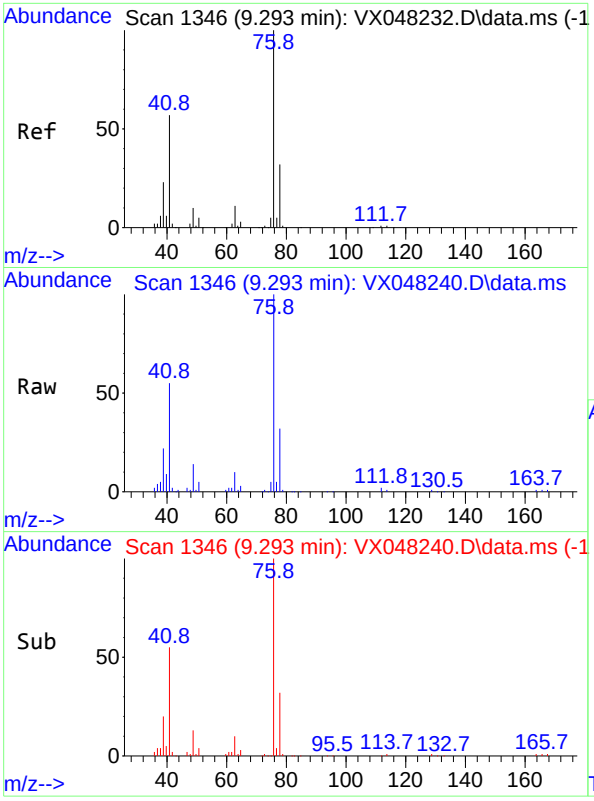


#56
Ethyl methacrylate
Concen: 18.774 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 69 Resp: 40543

Ion	Ratio	Lower	Upper
69	100		
41	64.0	56.0	84.0
39	34.2	31.6	47.4



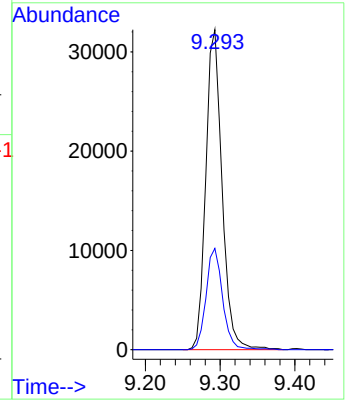


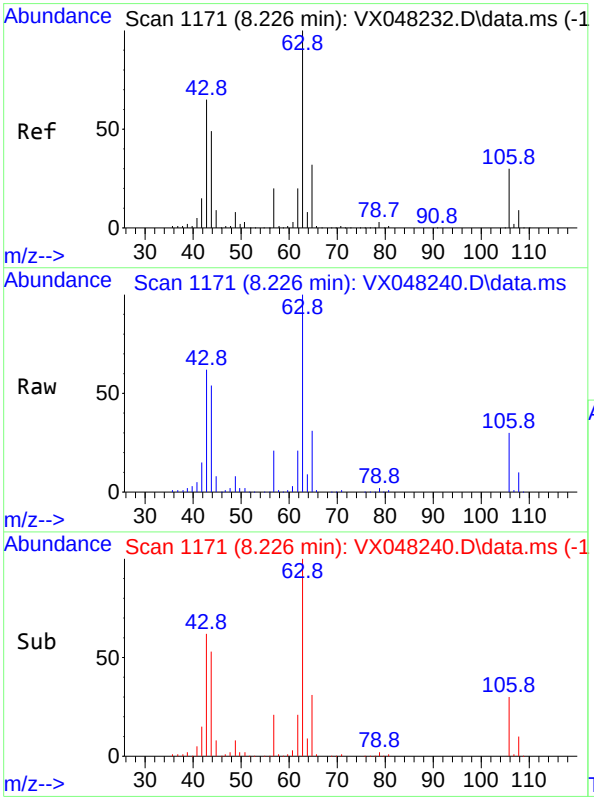
#57
1,3-Dichloropropane
Concen: 19.277 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 76 Resp: 48615

Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.4	38.0

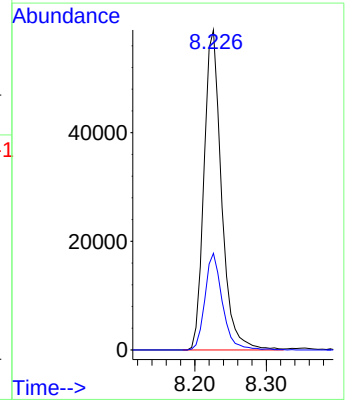


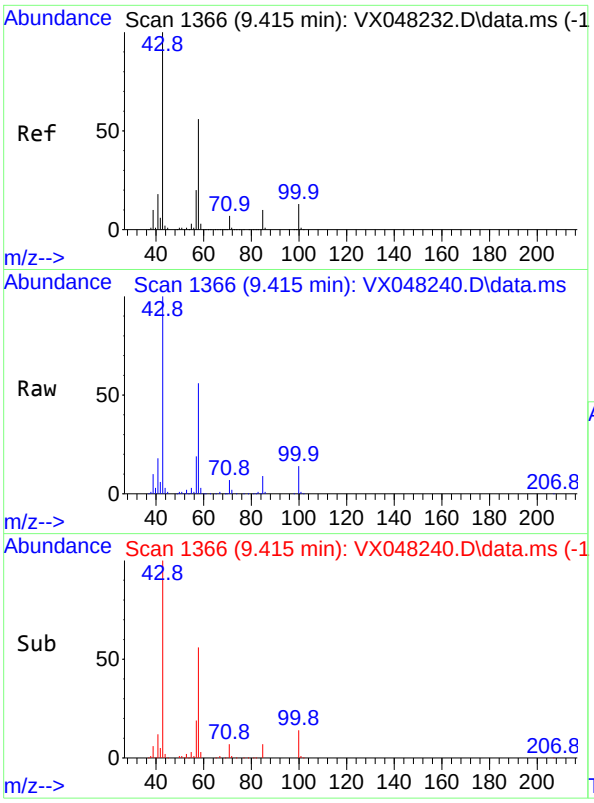


#58
2-Chloroethyl Vinyl ether
Concen: 87.448 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 63 Resp: 100252

Ion	Ratio	Lower	Upper
63	100		
106	30.1	22.2	33.2



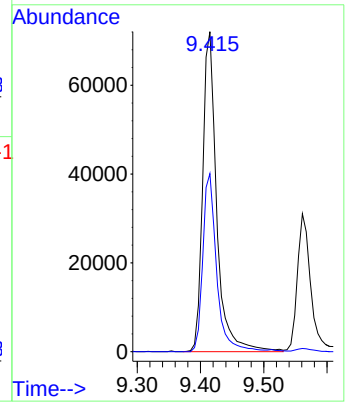


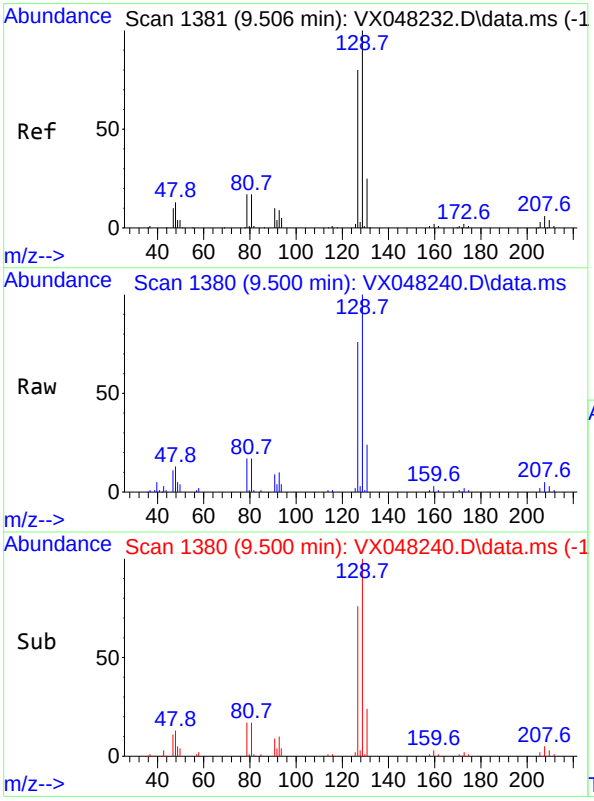
#59
2-Hexanone
Concen: 94.586 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 43 Resp: 111445

Ion	Ratio	Lower	Upper
43	100		
58	54.7	26.3	78.8

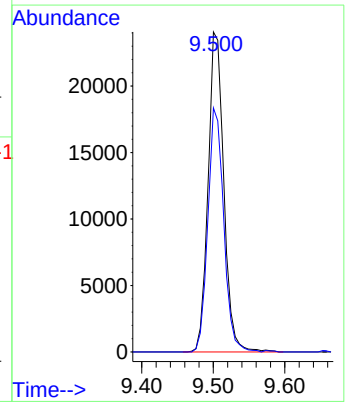


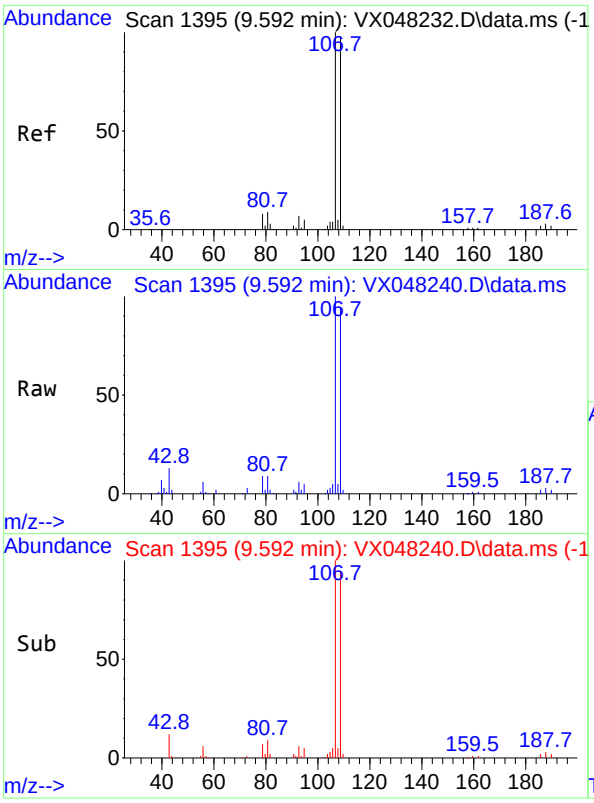


#60
Dibromochloromethane
Concen: 18.502 ug/l
RT: 9.500 min Scan# 1380
Delta R.T. -0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:129 Resp: 36715

Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.6	115.7



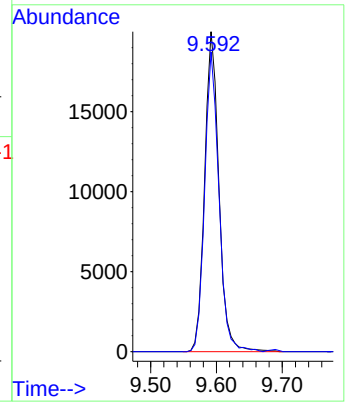


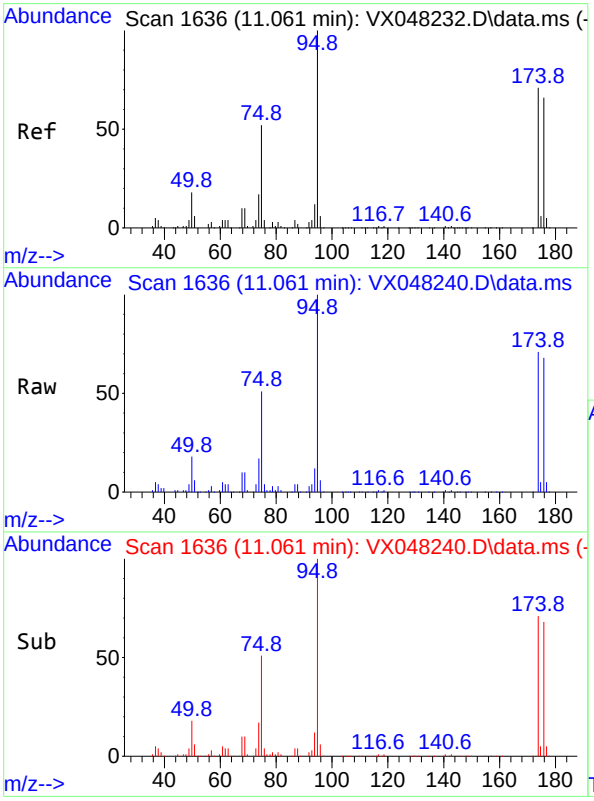
#61
1,2-Dibromoethane
Concen: 19.146 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion:107 Resp: 30136

Ion	Ratio	Lower	Upper
107	100		
109	93.4	77.0	115.4

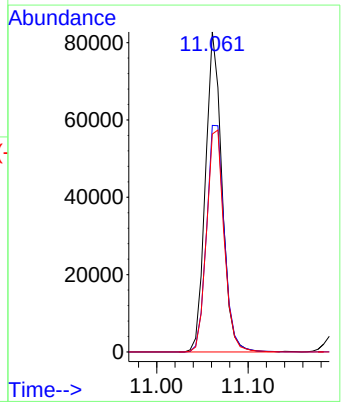


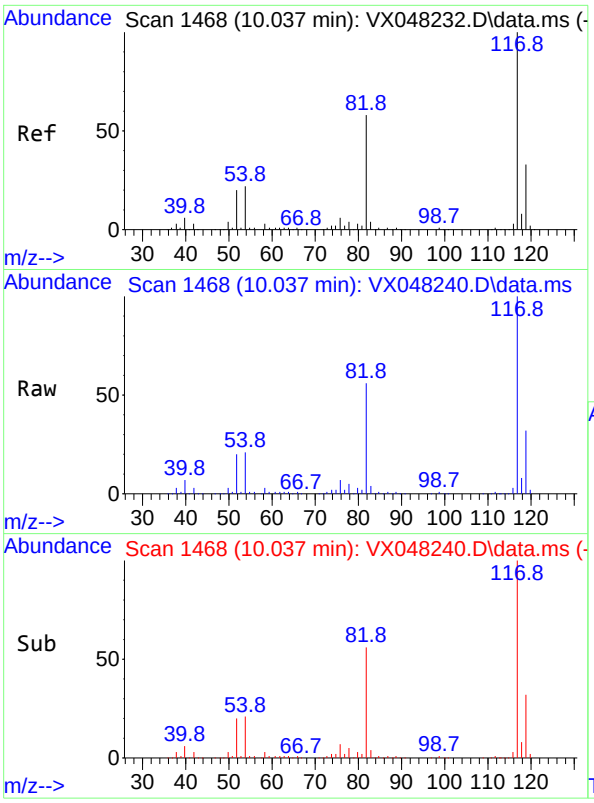


#62
4-Bromofluorobenzene
Concen: 51.072 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 95 Resp: 103135

Ion	Ratio	Lower	Upper
95	100		
174	76.5	0.0	147.8
176	73.8	0.0	142.8



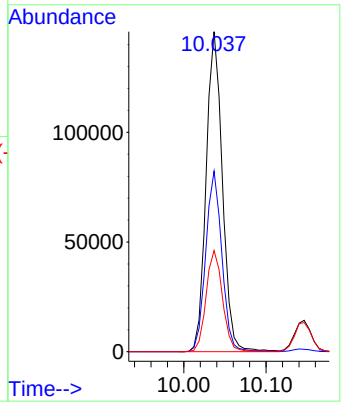


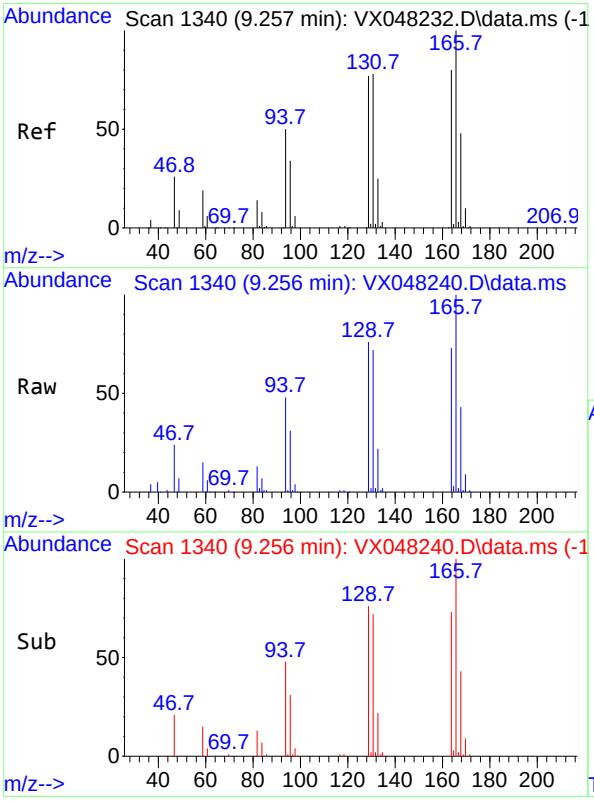
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion:117 Resp: 200515

Ion	Ratio	Lower	Upper
117	100		
82	56.4	46.5	69.7
119	31.6	25.9	38.9

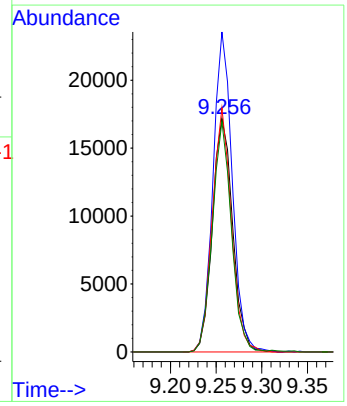


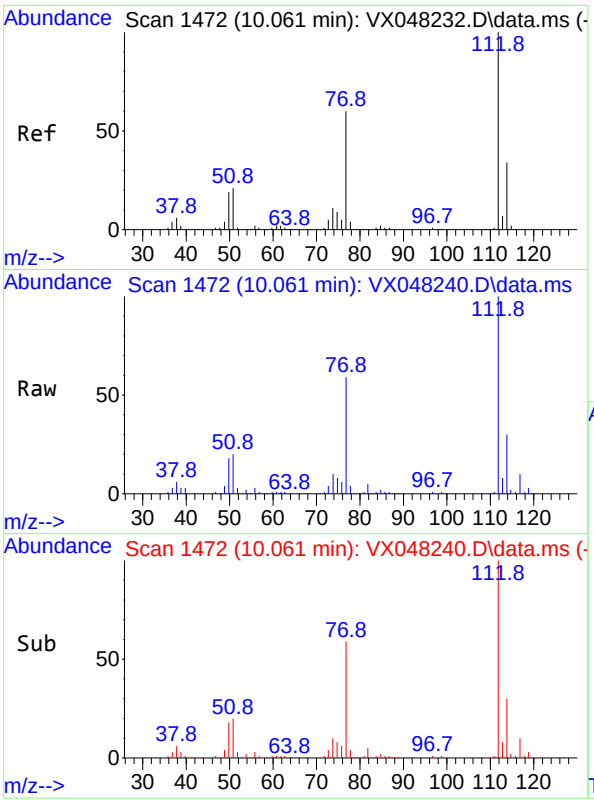


#64
Tetrachloroethene
Concen: 17.678 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:164 Resp: 26462

Ion	Ratio	Lower	Upper
164	100		
166	137.1	104.5	156.7
129	104.4	81.8	122.6
131	98.7	77.0	115.6



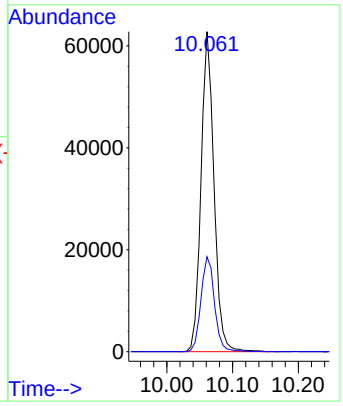


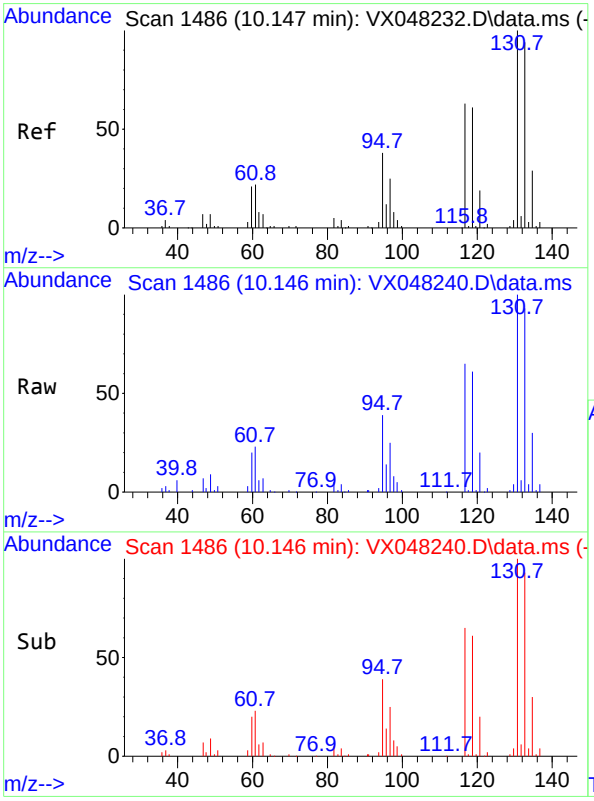
#65
Chlorobenzene
Concen: 19.036 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion:112 Resp: 85866

Ion	Ratio	Lower	Upper
112	100		
114	29.7	26.2	39.2

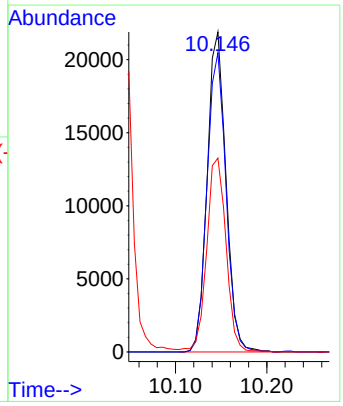


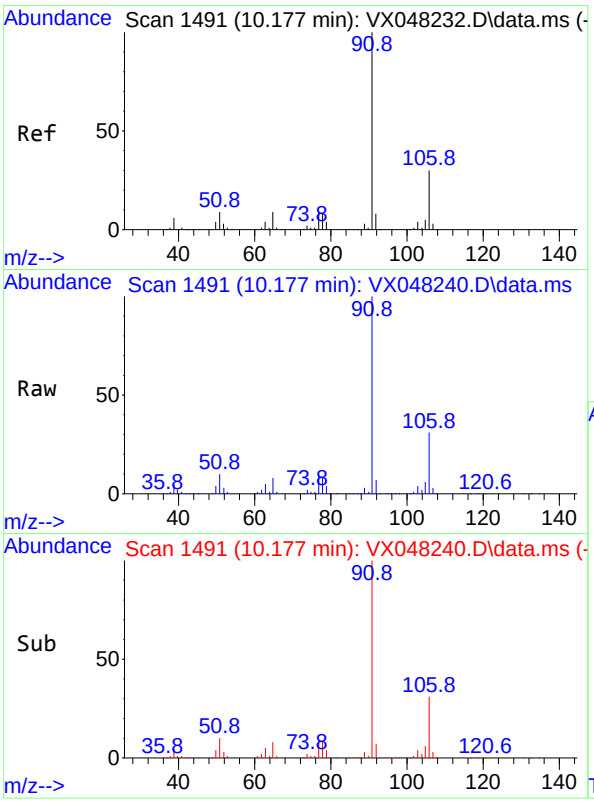


#66
1,1,1,2-Tetrachloroethane
Concen: 18.790 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:131 Resp: 31130

Ion	Ratio	Lower	Upper
131	100		
133	94.6	47.6	142.8
119	62.5	32.5	97.5



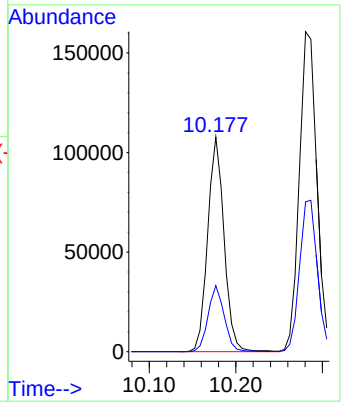


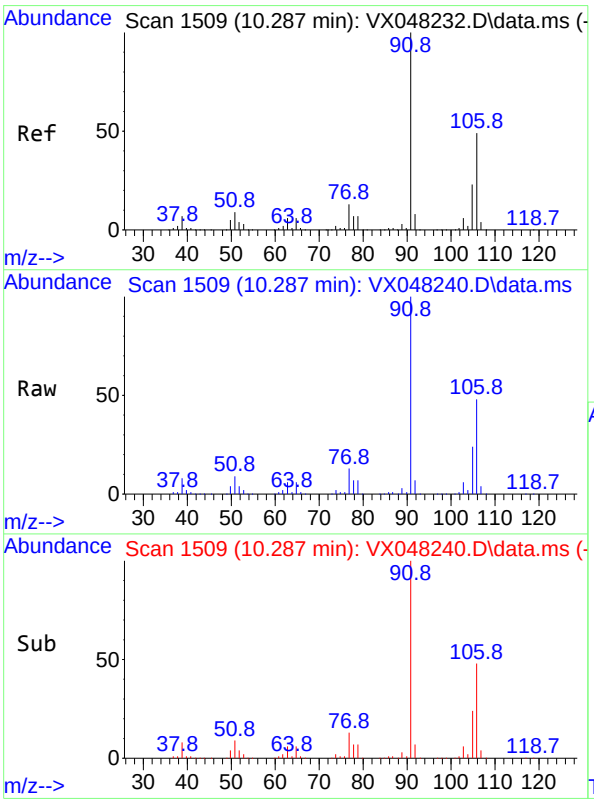
#67
Ethyl Benzene
Concen: 18.464 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 91 Resp: 141796

Ion	Ratio	Lower	Upper
91	100		
106	30.8	23.8	35.6

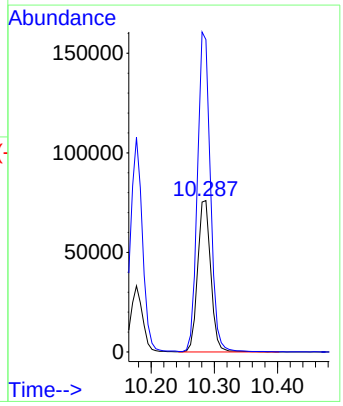


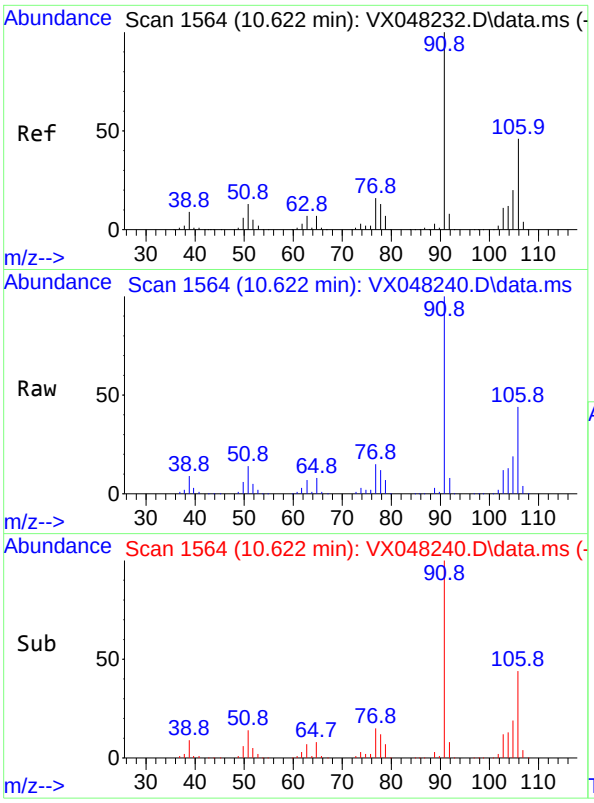


#68
m/p-Xylenes
Concen: 38.506 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:106 Resp: 109872

Ion	Ratio	Lower	Upper
106	100		
91	208.6	167.9	251.9



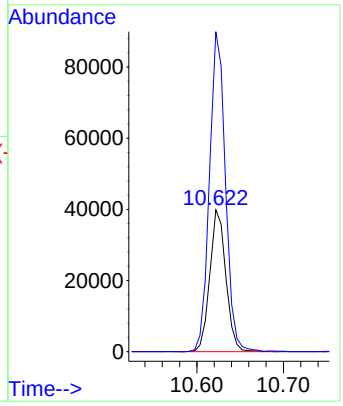


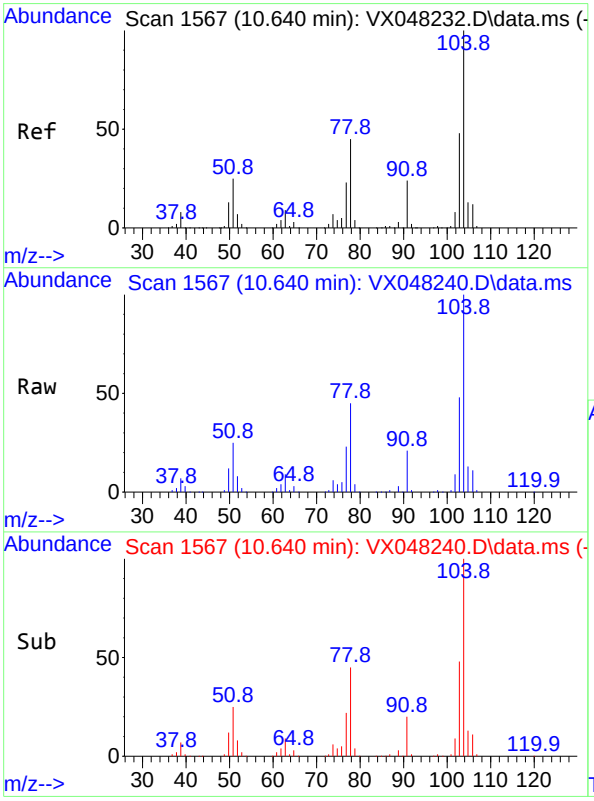
#69
o-Xylene
Concen: 18.685 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion:106 Resp: 51473

Ion	Ratio	Lower	Upper
106	100		
91	223.6	111.3	333.9

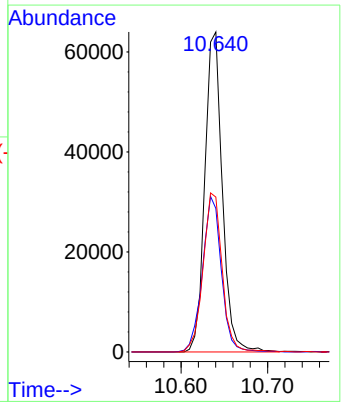


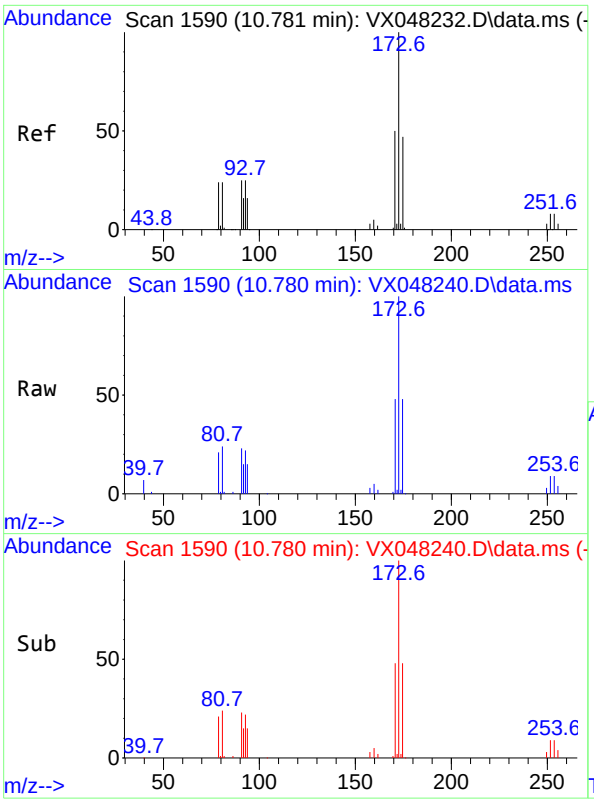


#70
Styrene
Concen: 19.141 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:104 Resp: 89782

Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.2	63.4
103	54.4	43.0	64.4



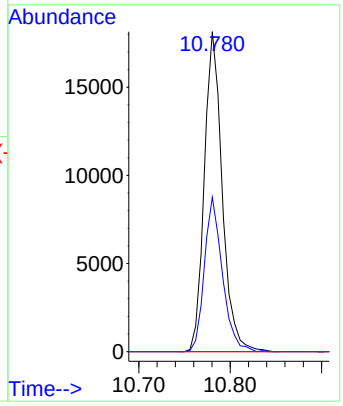


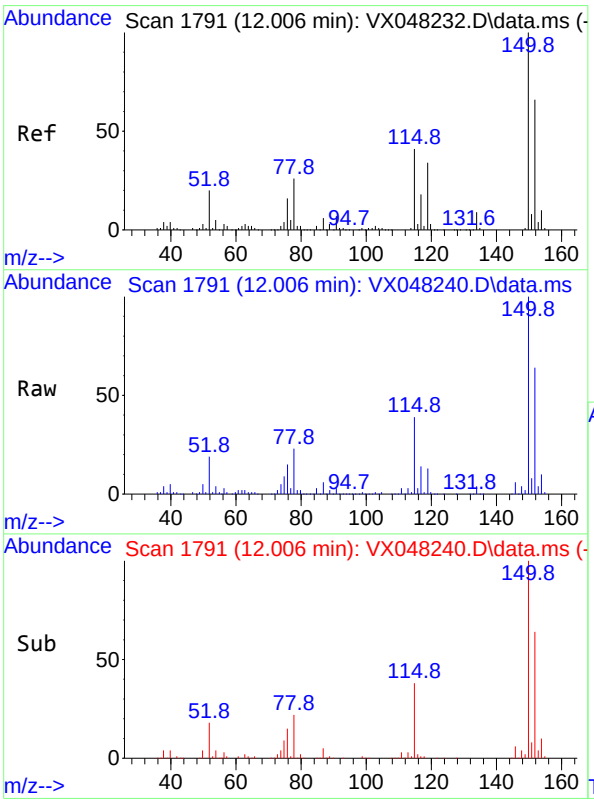
#71
Bromoform
Concen: 18.645 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion:173 Resp: 24689

Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.0	72.0
254	0.0	0.0	0.0

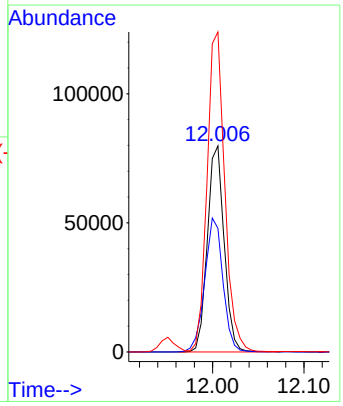


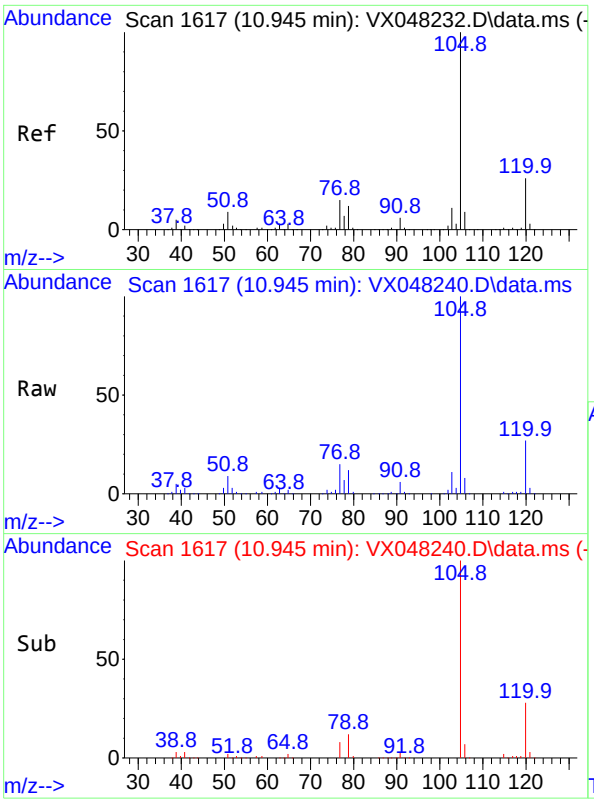


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:152 Resp: 101575

Ion	Ratio	Lower	Upper
152	100		
115	70.4	43.1	129.4
150	163.3	0.0	353.0



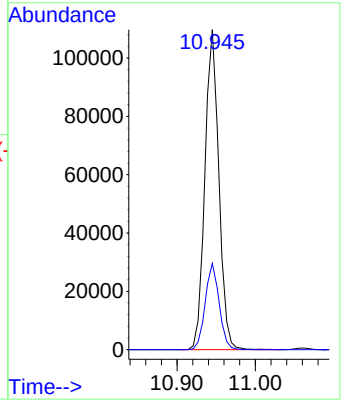


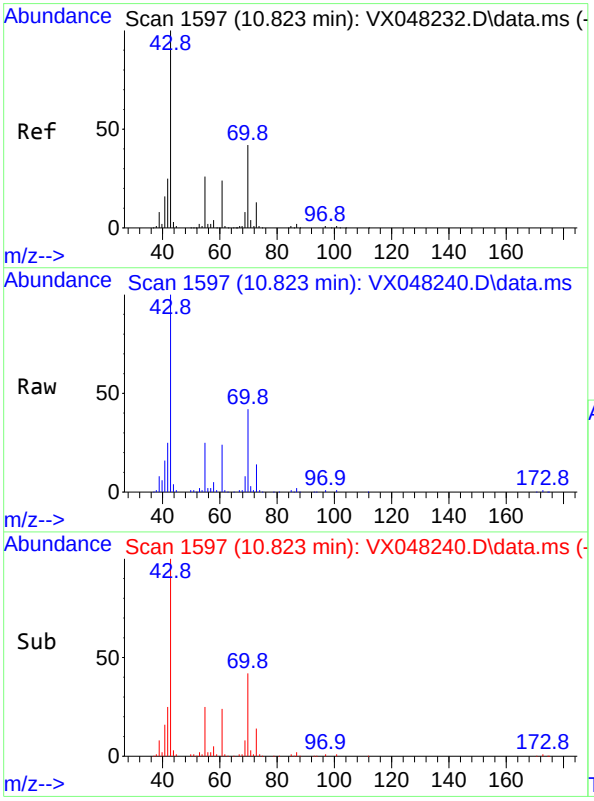
#73
Isopropylbenzene
Concen: 18.256 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion:105 Resp: 135441

Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.0	38.9

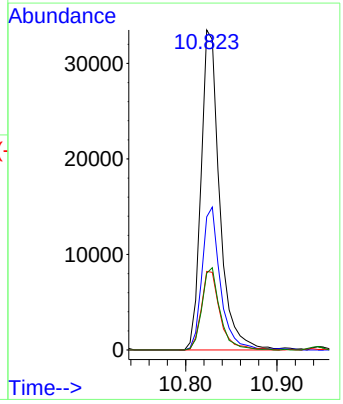


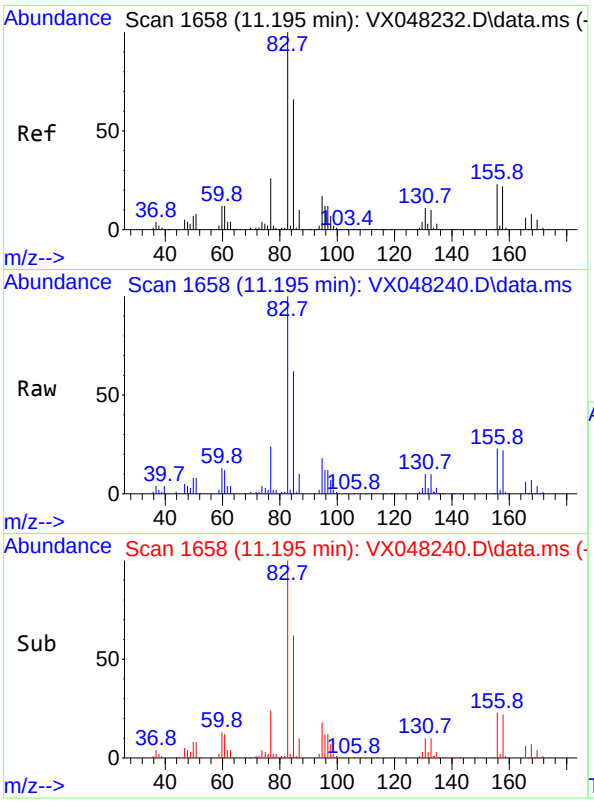


#74
N-amyl acetate
Concen: 17.942 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 43 Resp: 47216

Ion	Ratio	Lower	Upper
43	100		
70	44.5	32.2	48.2
55	25.0	19.1	28.7
61	25.0	18.6	28.0



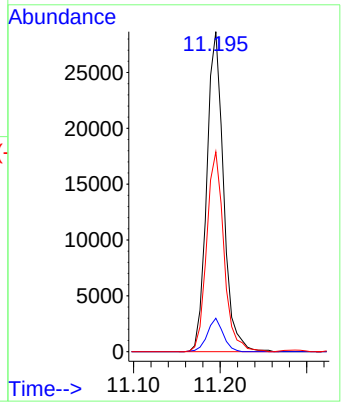


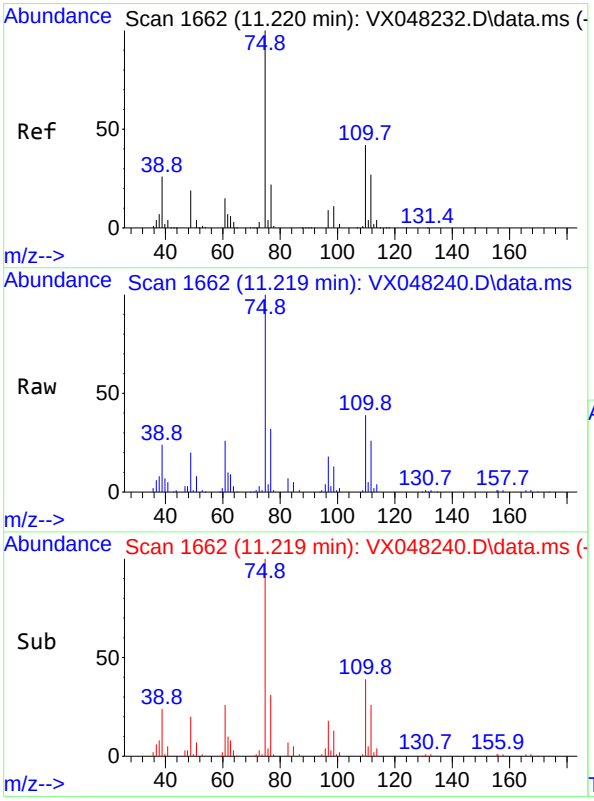
#75
1,1,2,2-Tetrachloroethane
Concen: 18.992 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 83 Resp: 38478

Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.8	14.4
85	64.2	31.9	95.7

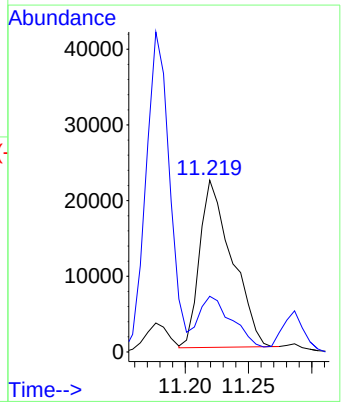


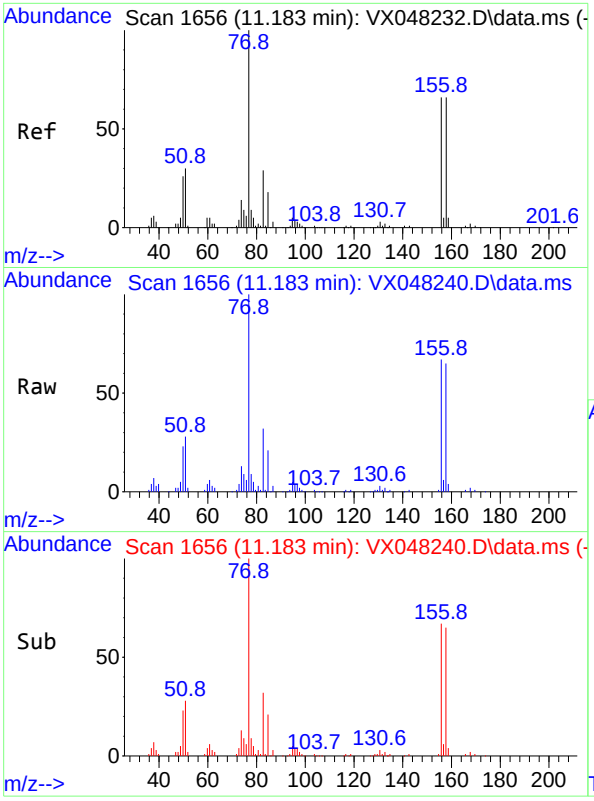


#76
1,2,3-Trichloropropane
Concen: 23.867 ug/l
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 75 Resp: 39314

Ion	Ratio	Lower	Upper
75	100		
77	36.3	22.4	67.2



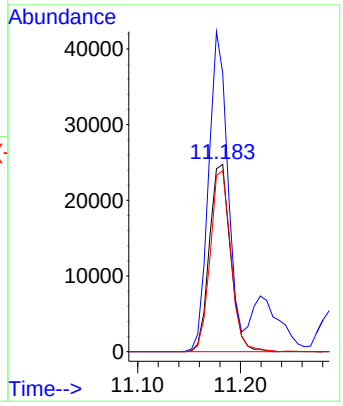


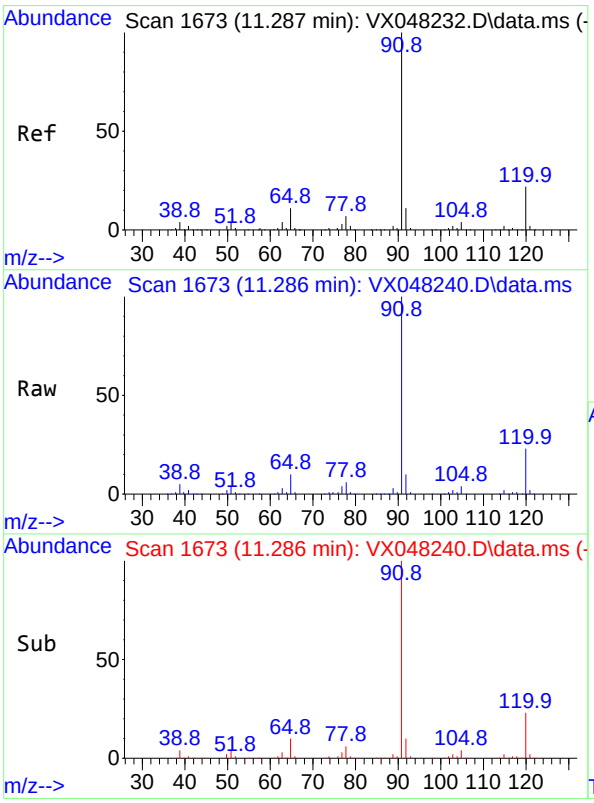
#77
Bromobenzene
Concen: 18.883 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion:156 Resp: 35128

Ion	Ratio	Lower	Upper
156	100		
77	156.7	87.0	261.0
158	94.9	47.8	143.4

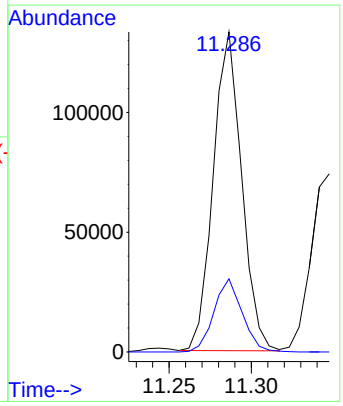


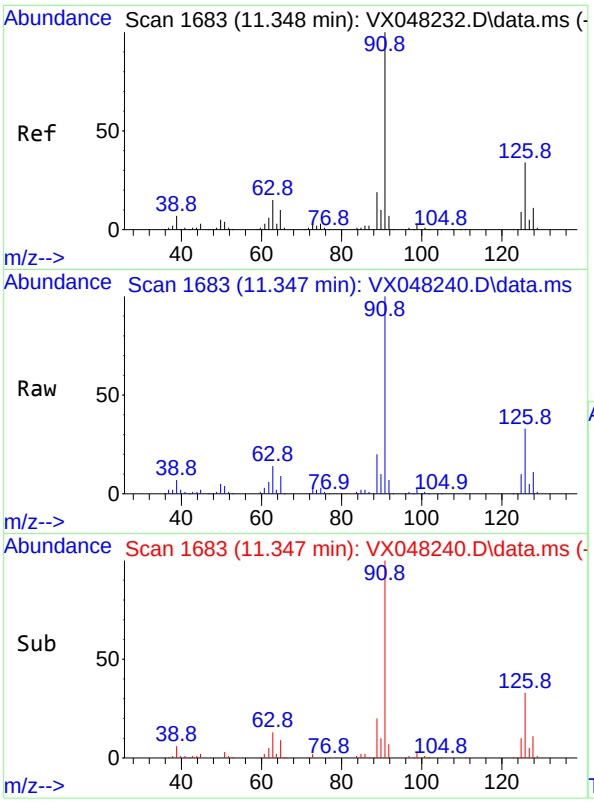


#78
n-propylbenzene
Concen: 18.563 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 91 Resp: 159455

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.1	33.1



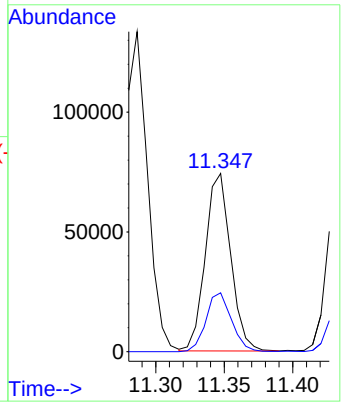


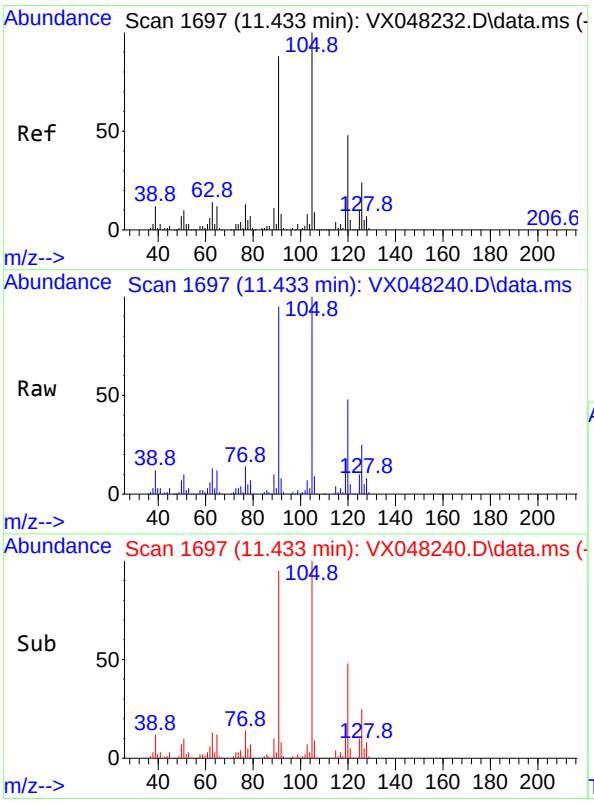
#79
2-Chlorotoluene
Concen: 18.331 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 91 Resp: 95469

Ion	Ratio	Lower	Upper
91	100		
126	33.5	16.4	49.4

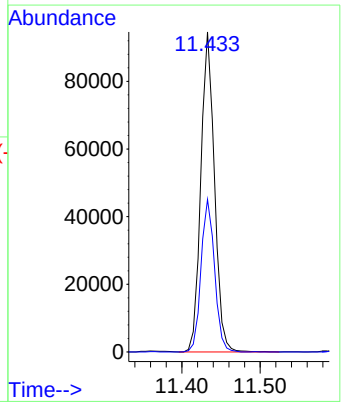


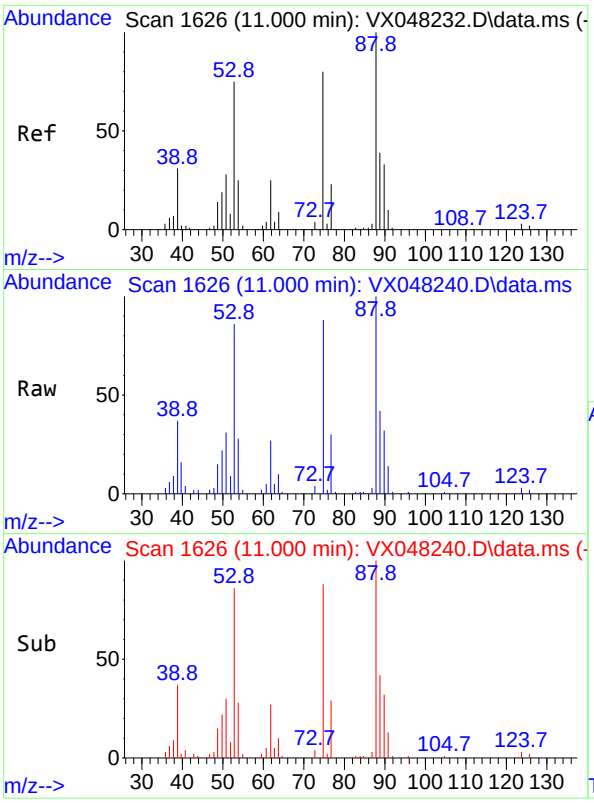


#80
1,3,5-Trimethylbenzene
Concen: 18.597 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:105 Resp: 114180

Ion	Ratio	Lower	Upper
105	100		
120	47.2	24.0	72.0



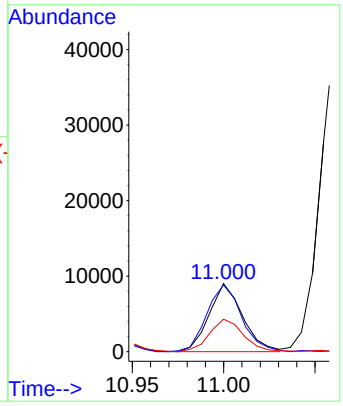


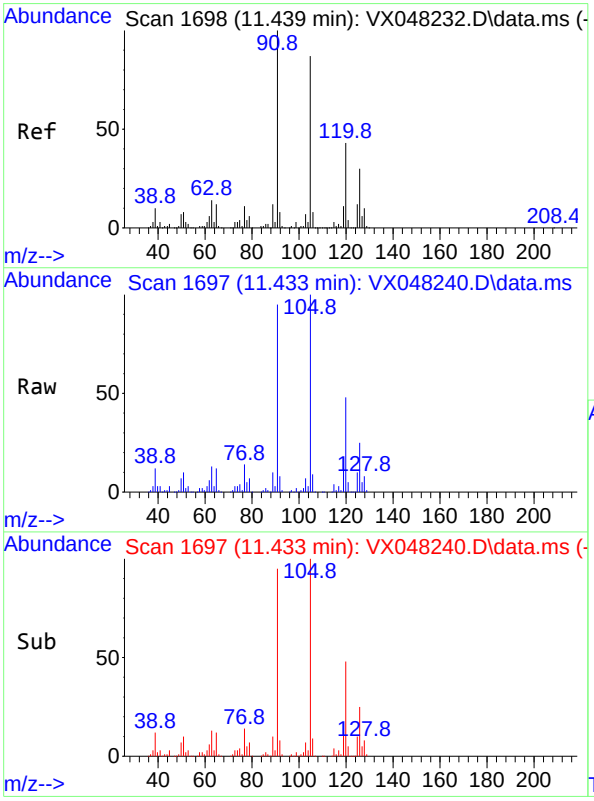
#81
trans-1,4-Dichloro-2-butene
Concen: 16.997 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 75 Resp: 11508

Ion	Ratio	Lower	Upper
75	100		
53	101.6	79.5	119.3
89	48.5	36.8	55.2

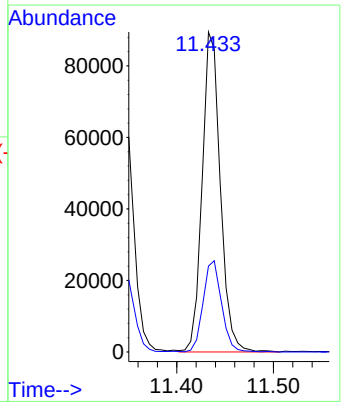


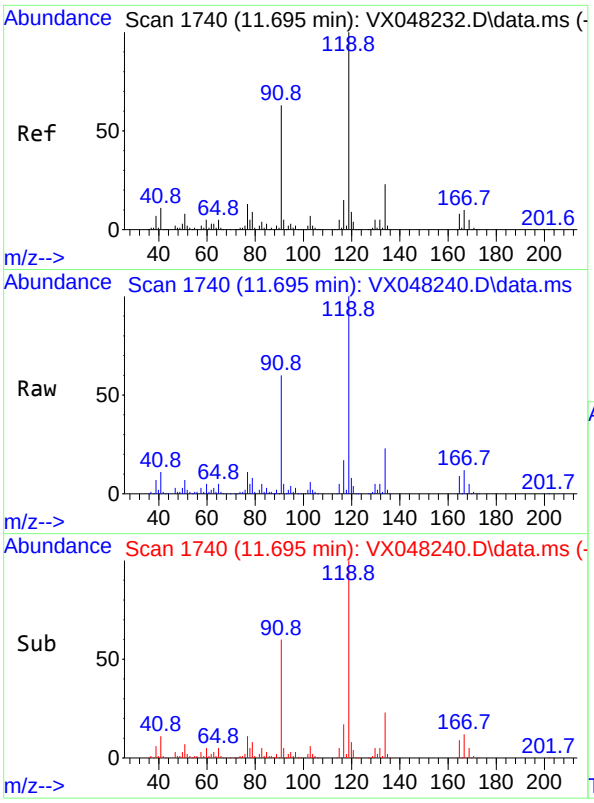


#82
4-Chlorotoluene
Concen: 18.938 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 91 Resp: 117079

Ion	Ratio	Lower	Upper
91	100		
126	28.9	14.1	42.4



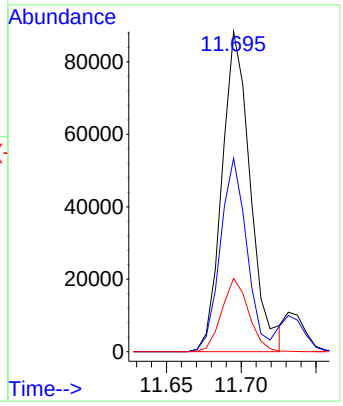


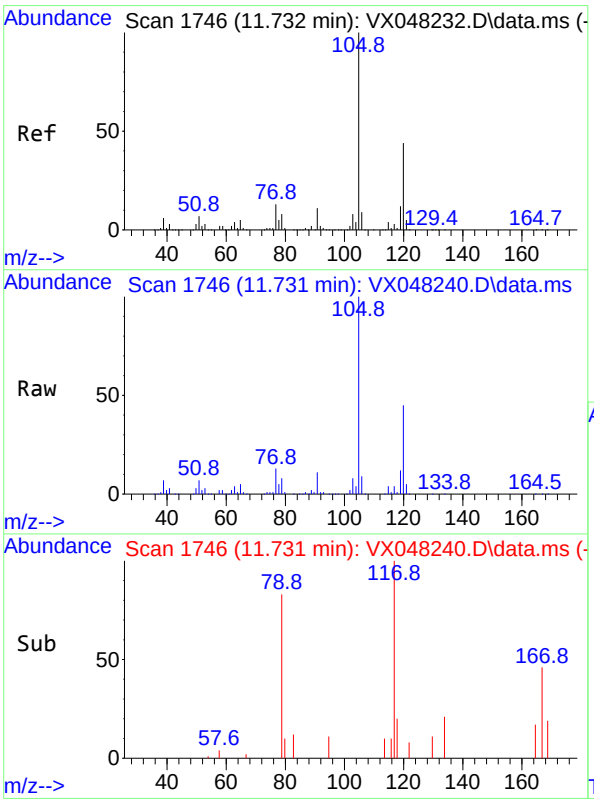
#83
tert-Butylbenzene
Concen: 18.471 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion:119 Resp: 116521

Ion	Ratio	Lower	Upper
119	100		
91	56.6	30.3	91.0
134	21.7	11.4	34.2

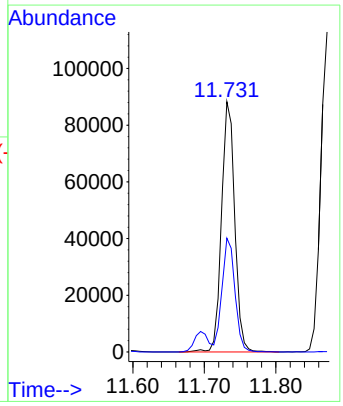


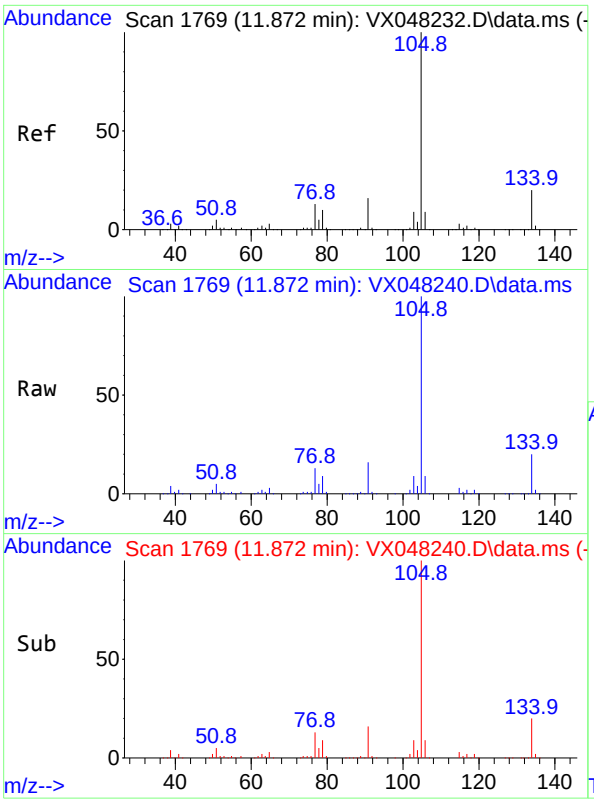


#84
1,2,4-Trimethylbenzene
Concen: 18.509 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:105 Resp: 113408

Ion	Ratio	Lower	Upper
105	100		
120	44.5	22.1	66.5



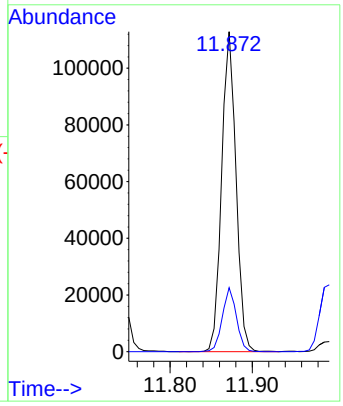


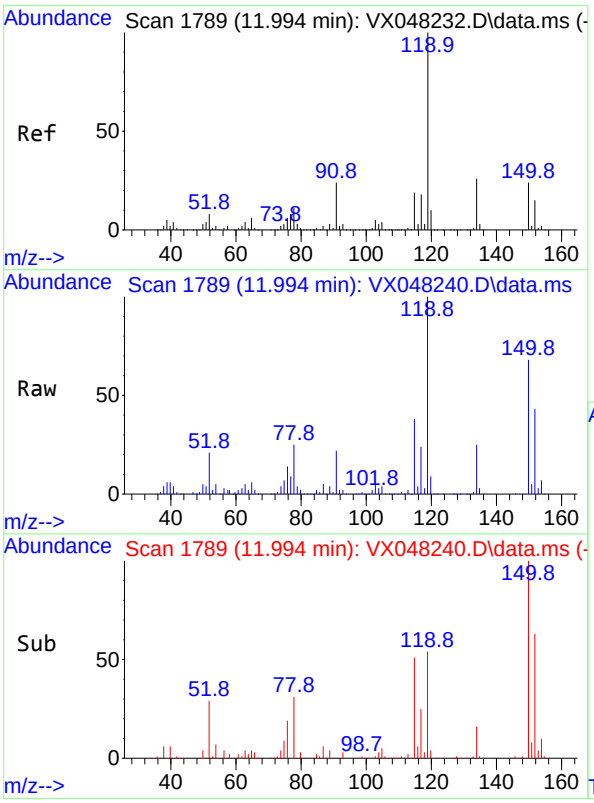
#85
sec-Butylbenzene
Concen: 18.036 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion:105 Resp: 136883

Ion	Ratio	Lower	Upper
105	100		
134	19.6	10.1	30.1

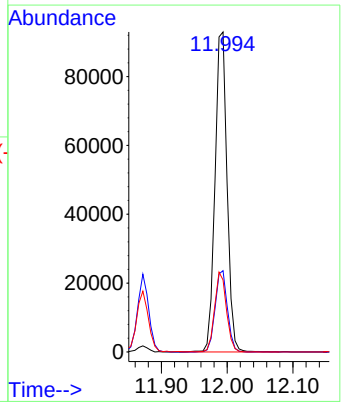


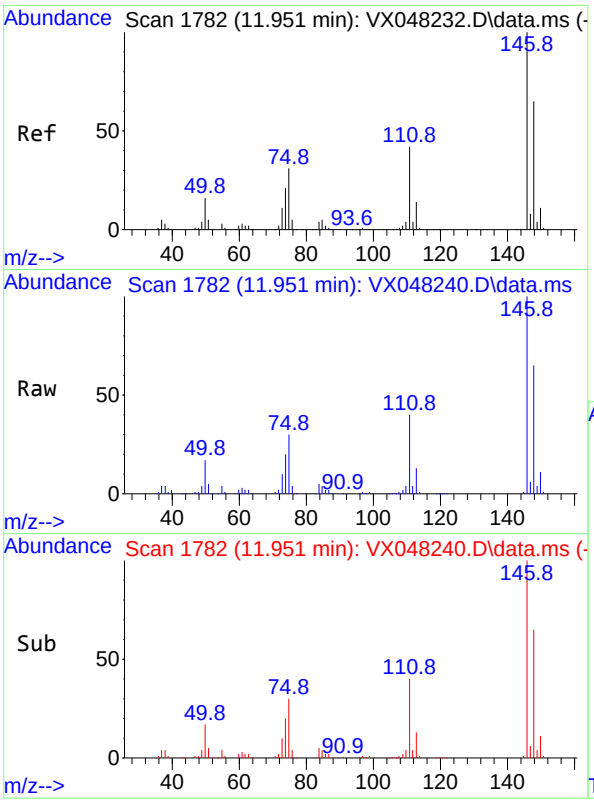


#86
p-Isopropyltoluene
Concen: 18.053 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:119 Resp: 118427

Ion	Ratio	Lower	Upper
119	100		
134	25.8	13.0	39.0
91	24.5	12.1	36.3



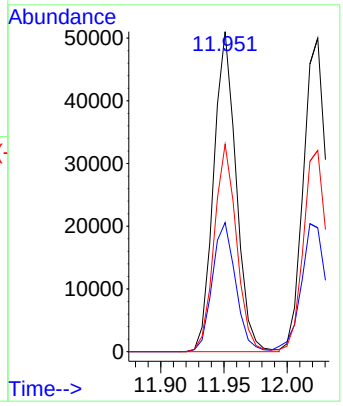


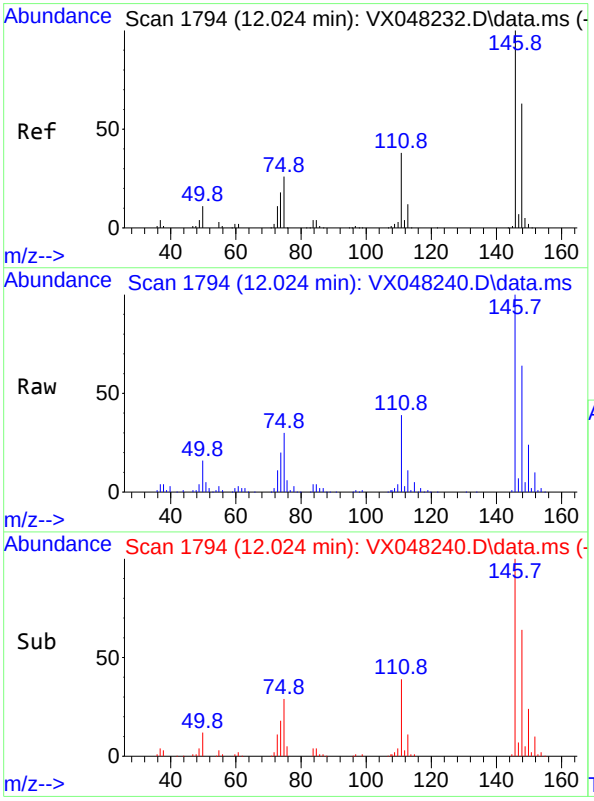
#87
1,3-Dichlorobenzene
Concen: 17.970 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion:146 Resp: 63018

Ion	Ratio	Lower	Upper
146	100		
111	41.9	20.4	61.2
148	64.3	31.9	95.9

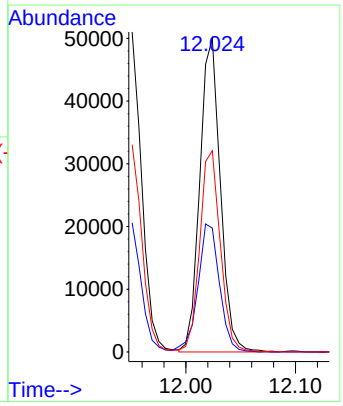


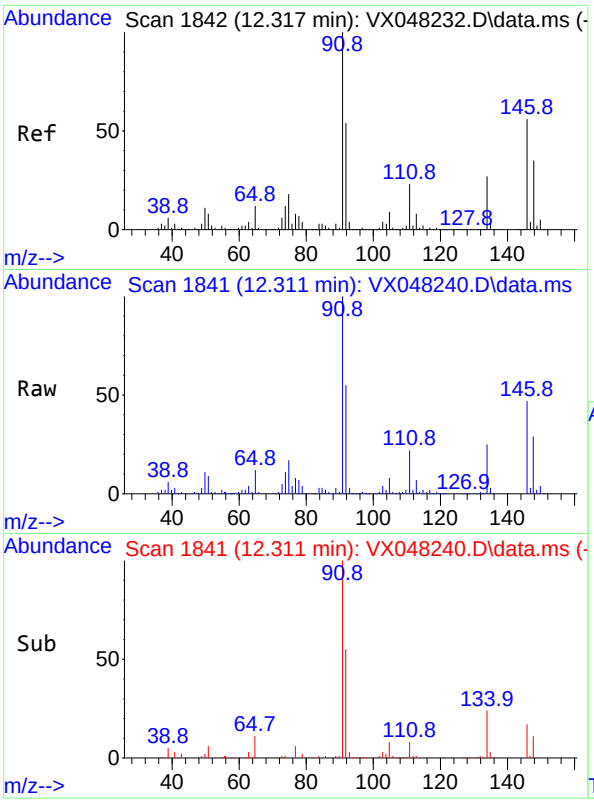


#88
1,4-Dichlorobenzene
Concen: 17.912 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:146 Resp: 65076

Ion	Ratio	Lower	Upper
146	100		
111	42.9	20.1	60.2
148	64.3	31.8	95.3



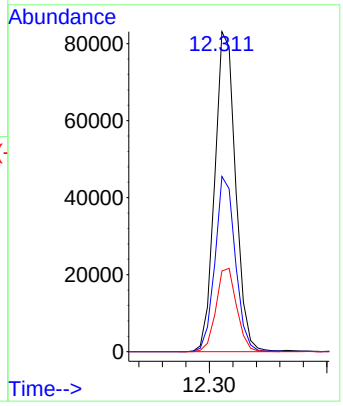


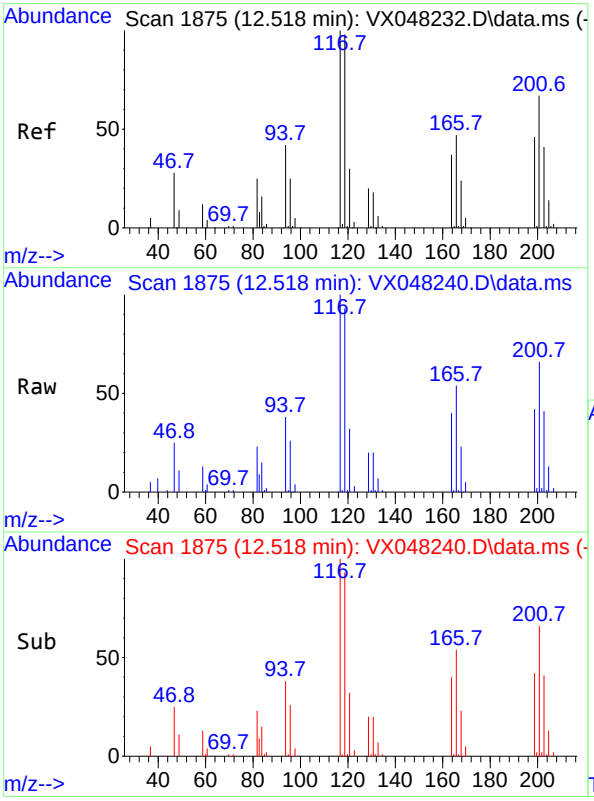
#89
n-Butylbenzene
Concen: 17.110 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion: 91 Resp: 102164

Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.9	80.6
134	26.0	12.7	38.1

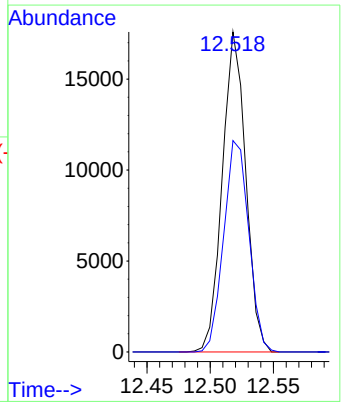


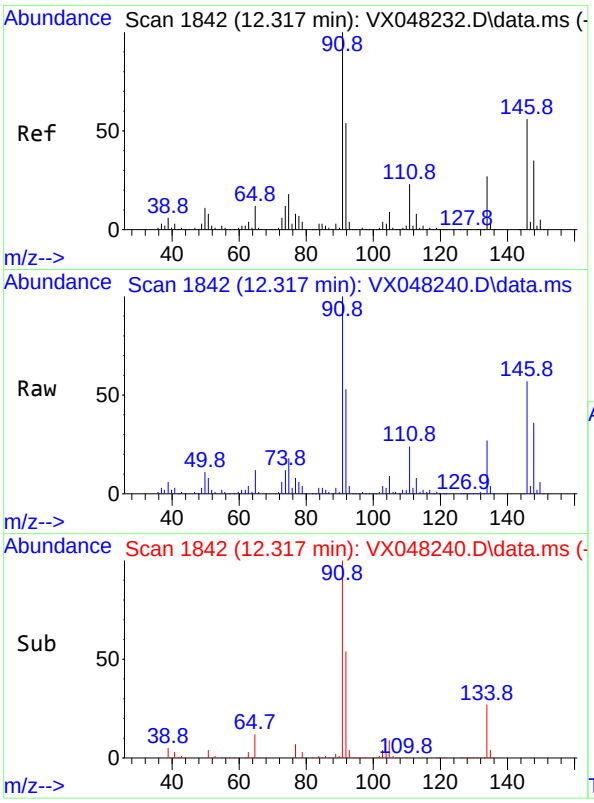


#90
Hexachloroethane
Concen: 17.480 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:117 Resp: 22644

Ion	Ratio	Lower	Upper
117	100		
201	70.8	34.1	102.2



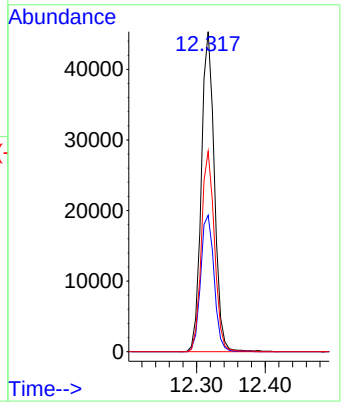


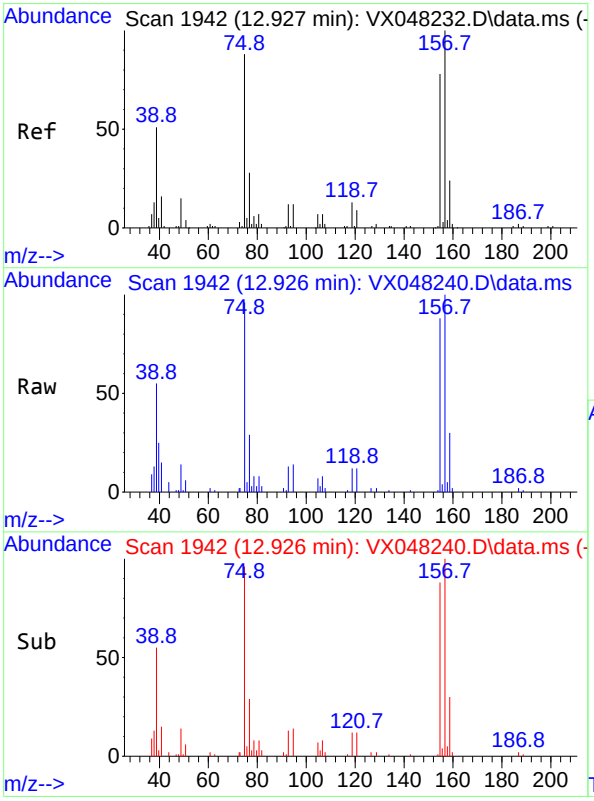
#91
1,2-Dichlorobenzene
Concen: 18.277 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion:146 Resp: 60180

Ion	Ratio	Lower	Upper
146	100		
111	44.1	21.9	65.5
148	62.9	31.9	95.5

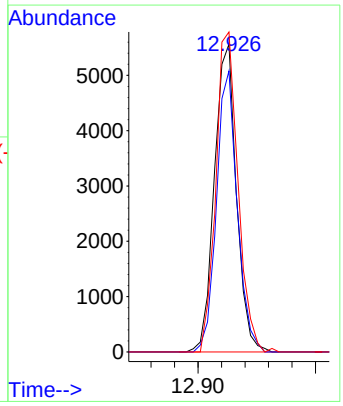


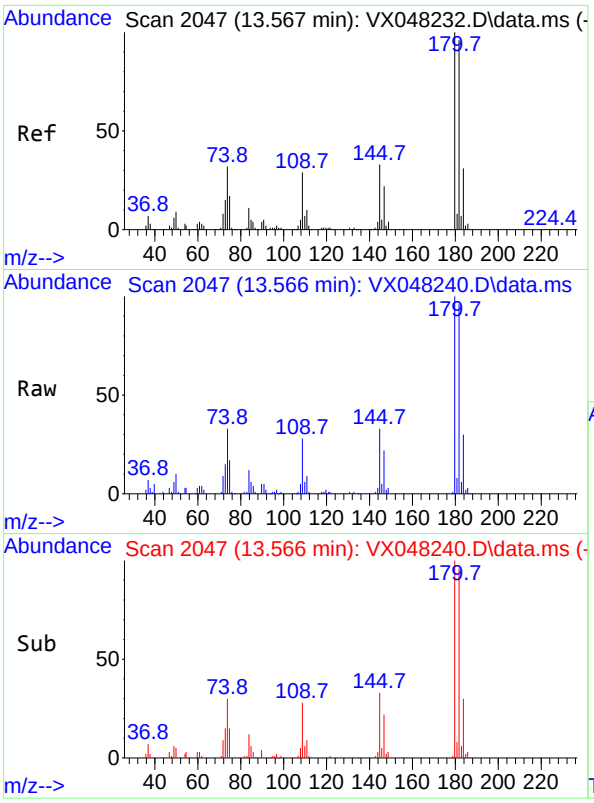


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.612 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion: 75 Resp: 7243

Ion	Ratio	Lower	Upper
75	100		
155	86.1	42.8	128.4
157	104.5	54.2	162.6



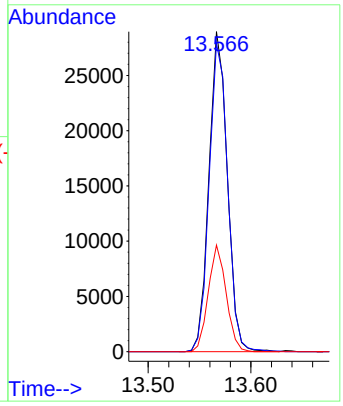


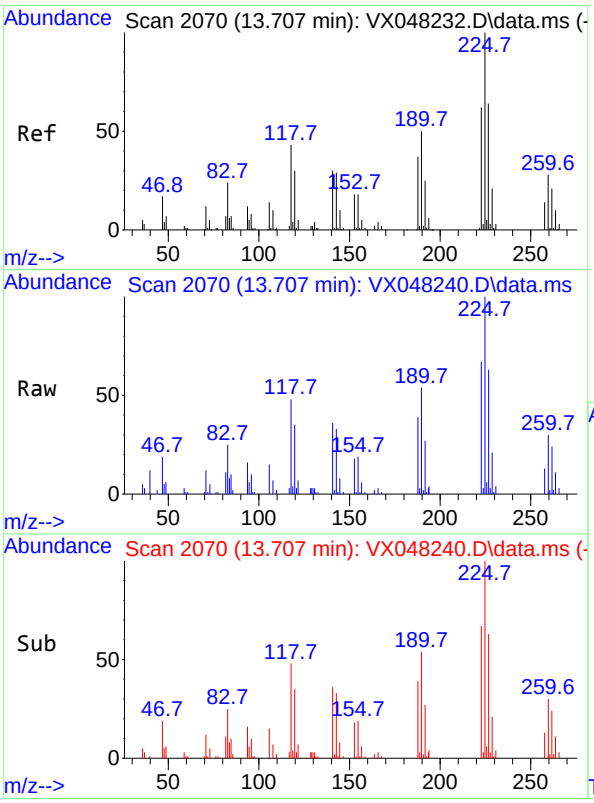
#93
1,2,4-Trichlorobenzene
Concen: 16.119 ug/l
RT: 13.566 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion:180 Resp: 35892

Ion	Ratio	Lower	Upper
180	100		
182	97.5	47.3	142.0
145	32.5	16.3	48.9

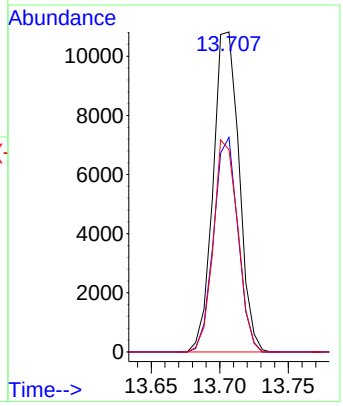


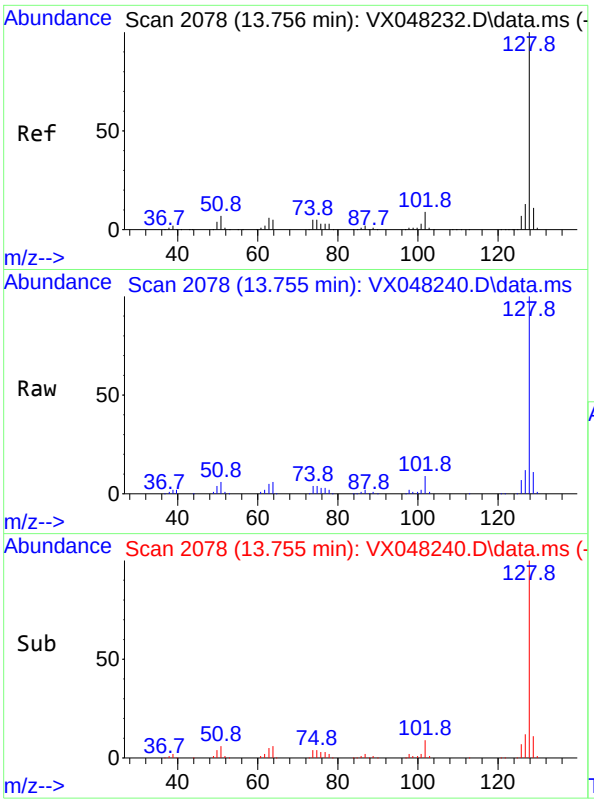


#94
Hexachlorobutadiene
Concen: 17.115 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:225 Resp: 14244

Ion	Ratio	Lower	Upper
225	100		
223	62.9	32.6	97.7
227	62.7	32.5	97.4



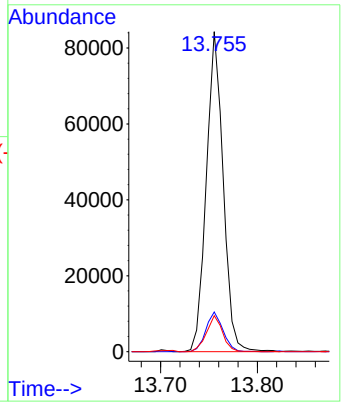


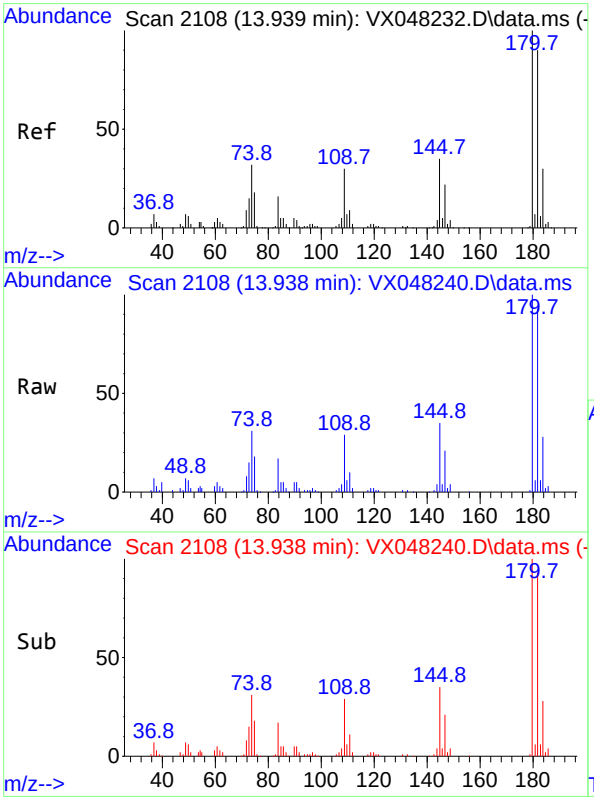
#95
Naphthalene
Concen: 17.342 ug/l
RT: 13.755 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBS01

Tgt Ion:128 Resp: 102306

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.4
129	10.8	8.6	12.8

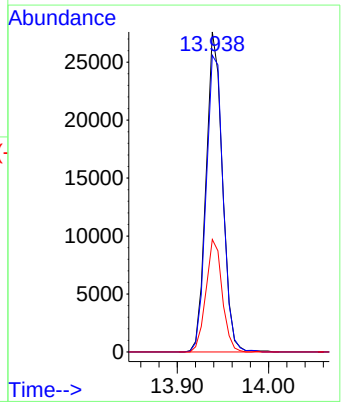




#96
1,2,3-Trichlorobenzene
Concen: 16.802 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX048240.D
Acq: 20 Oct 2025 15:50

Tgt Ion:180 Resp: 34331

Ion	Ratio	Lower	Upper
180	100		
182	96.1	46.6	139.7
145	34.8	16.9	50.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048247.D
Acq On : 20 Oct 2025 18:22
Operator : JC/MD
Sample : VX1020WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Quant Time: Oct 21 06:14:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	114781	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	195841	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	183563	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	92655	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	92554	57.512	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 115.020%			
35) Dibromofluoromethane	5.379	113	71144	53.212	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.420%			
50) Toluene-d8	8.635	98	243288	51.915	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 103.820%			
62) 4-Bromofluorobenzene	11.061	95	92954	52.139	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.280%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	20476	17.353	ug/l	94
3) Chloromethane	1.301	50	23064	20.941	ug/l	98
4) Vinyl Chloride	1.380	62	19788	19.402	ug/l	95
5) Bromomethane	1.618	94	14871	21.485	ug/l	96
6) Chloroethane	1.697	64	11916	19.883	ug/l #	87
7) Trichlorofluoromethane	1.898	101	35760	18.282	ug/l	97
8) Diethyl Ether	2.136	74	12054	21.901	ug/l	89
9) 1,1,2-Trichlorotrifluo...	2.337	101	21976	17.742	ug/l	96
10) Methyl Iodide	2.453	142	25897	16.631	ug/l	99
11) Tert butyl alcohol	2.947	59	17281	108.152	ug/l	99
12) 1,1-Dichloroethene	2.325	96	22080	18.323	ug/l	94
13) Acrolein	2.240	56	19228	117.991	ug/l	100
14) Allyl chloride	2.666	41	37950	18.968	ug/l	99
15) Acrylonitrile	3.056	53	60459	104.933	ug/l	100
16) Acetone	2.374	43	47646	86.302	ug/l	96
17) Carbon Disulfide	2.520	76	65187	17.164	ug/l	100
18) Methyl Acetate	2.703	43	23295	20.204	ug/l	95
19) Methyl tert-butyl Ether	3.111	73	83700	20.360	ug/l	100
20) Methylene Chloride	2.794	84	29196	21.703	ug/l #	85
21) trans-1,2-Dichloroethene	3.093	96	25126	18.982	ug/l	97
22) Diisopropyl ether	3.751	45	84376	21.145	ug/l	91
23) Vinyl Acetate	3.715	43	335871	105.369	ug/l	95
24) 1,1-Dichloroethane	3.605	63	47157	19.544	ug/l	98
25) 2-Butanone	4.544	43	68946	98.664	ug/l	98
26) 2,2-Dichloropropane	4.471	77	36422	16.724	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	30801	19.938	ug/l	97
28) Bromochloromethane	4.891	49	23578	23.567	ug/l	87
29) Tetrahydrofuran	4.989	42	42373	101.247	ug/l	92
30) Chloroform	5.080	83	53451	20.734	ug/l	98
31) Cyclohexane	5.465	56	36130	18.086	ug/l	95
32) 1,1,1-Trichloroethane	5.373	97	44597	18.771	ug/l	98
36) 1,1-Dichloropropene	5.684	75	32010	16.845	ug/l	100
37) Ethyl Acetate	4.709	43	32299	20.506	ug/l	98
38) Carbon Tetrachloride	5.672	117	40183	17.139	ug/l	94
39) Methylcyclohexane	7.367	83	36797	16.396	ug/l	95
40) Benzene	6.025	78	104164	18.880	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048247.D
Acq On : 20 Oct 2025 18:22
Operator : JC/MD
Sample : VX1020WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Quant Time: Oct 21 06:14:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.904	41	16538	19.993	ug/l		96
42) 1,2-Dichloroethane	6.068	62	40822	20.051	ug/l		100
43) Isopropyl Acetate	6.330	43	52028	20.109	ug/l		97
44) Trichloroethene	7.111	130	26497	18.188	ug/l		94
45) 1,2-Dichloropropane	7.415	63	26694	20.350	ug/l		98
46) Dibromomethane	7.568	93	20469	20.029	ug/l		94
47) Bromodichloromethane	7.806	83	43761	19.832	ug/l		99
48) Methyl methacrylate	7.678	41	25318	19.392	ug/l		95
49) 1,4-Dioxane	7.641	88	6386	370.238	ug/l		99
51) 4-Methyl-2-Pentanone	8.555	43	153370	102.812	ug/l		96
52) Toluene	8.702	92	65370	18.650	ug/l		98
53) t-1,3-Dichloropropene	8.964	75	42315	19.900	ug/l		100
54) cis-1,3-Dichloropropene	8.354	75	44419	19.362	ug/l	#	88
55) 1,1,2-Trichloroethane	9.135	97	27480	21.083	ug/l		98
56) Ethyl methacrylate	9.104	69	38089	19.978	ug/l		96
57) 1,3-Dichloropropane	9.293	76	46146	20.726	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.226	63	92914	91.719	ug/l		95
59) 2-Hexanone	9.415	43	108257	104.075	ug/l		97
60) Dibromochloromethane	9.507	129	36604	20.894	ug/l		98
61) 1,2-Dibromoethane	9.592	107	29765	21.420	ug/l		93
64) Tetrachloroethene	9.257	164	23320	17.018	ug/l		97
65) Chlorobenzene	10.061	112	78337	18.971	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.147	131	28648	18.889	ug/l		100
67) Ethyl Benzene	10.177	91	125292	17.821	ug/l		99
68) m/p-Xylenes	10.287	106	95614	36.604	ug/l		99
69) o-Xylene	10.622	106	46336	18.374	ug/l		97
70) Styrene	10.640	104	82194	19.141	ug/l		99
71) Bromoform	10.781	173	23892	19.710	ug/l	#	99
73) Isopropylbenzene	10.945	105	118461	17.504	ug/l		99
74) N-amyl acetate	10.823	43	45284	18.864	ug/l		95
75) 1,1,2,2-Tetrachloroethane	11.195	83	37724	20.412	ug/l		99
76) 1,2,3-Trichloropropane	11.220	75	38827	25.841	ug/l		82
77) Bromobenzene	11.177	156	32159	18.952	ug/l		93
78) n-propylbenzene	11.287	91	136981	17.482	ug/l		97
79) 2-Chlorotoluene	11.348	91	85588	18.016	ug/l		98
80) 1,3,5-Trimethylbenzene	11.433	105	100372	17.922	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	10903	17.654	ug/l		99
82) 4-Chlorotoluene	11.439	91	102658	18.204	ug/l		97
83) tert-Butylbenzene	11.695	119	102465	17.807	ug/l		95
84) 1,2,4-Trimethylbenzene	11.732	105	101437	18.149	ug/l		99
85) sec-Butylbenzene	11.872	105	118566	17.126	ug/l		100
86) p-Isopropyltoluene	11.994	119	102269	17.091	ug/l		98
87) 1,3-Dichlorobenzene	11.951	146	57585	18.001	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	58623	17.690	ug/l		98
89) n-Butylbenzene	12.311	91	89874	16.501	ug/l		99
90) Hexachloroethane	12.518	117	19902	16.842	ug/l		94
91) 1,2-Dichlorobenzene	12.317	146	54922	18.286	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.927	75	6943	18.508	ug/l		98
93) 1,2,4-Trichlorobenzene	13.567	180	33533	16.510	ug/l		100
94) Hexachlorobutadiene	13.707	225	12548	16.531	ug/l		97
95) Naphthalene	13.756	128	94002	17.469	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	31666	16.990	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048247.D
Acq On : 20 Oct 2025 18:22
Operator : JC/MD
Sample : VX1020WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Quant Time: Oct 21 06:14:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

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

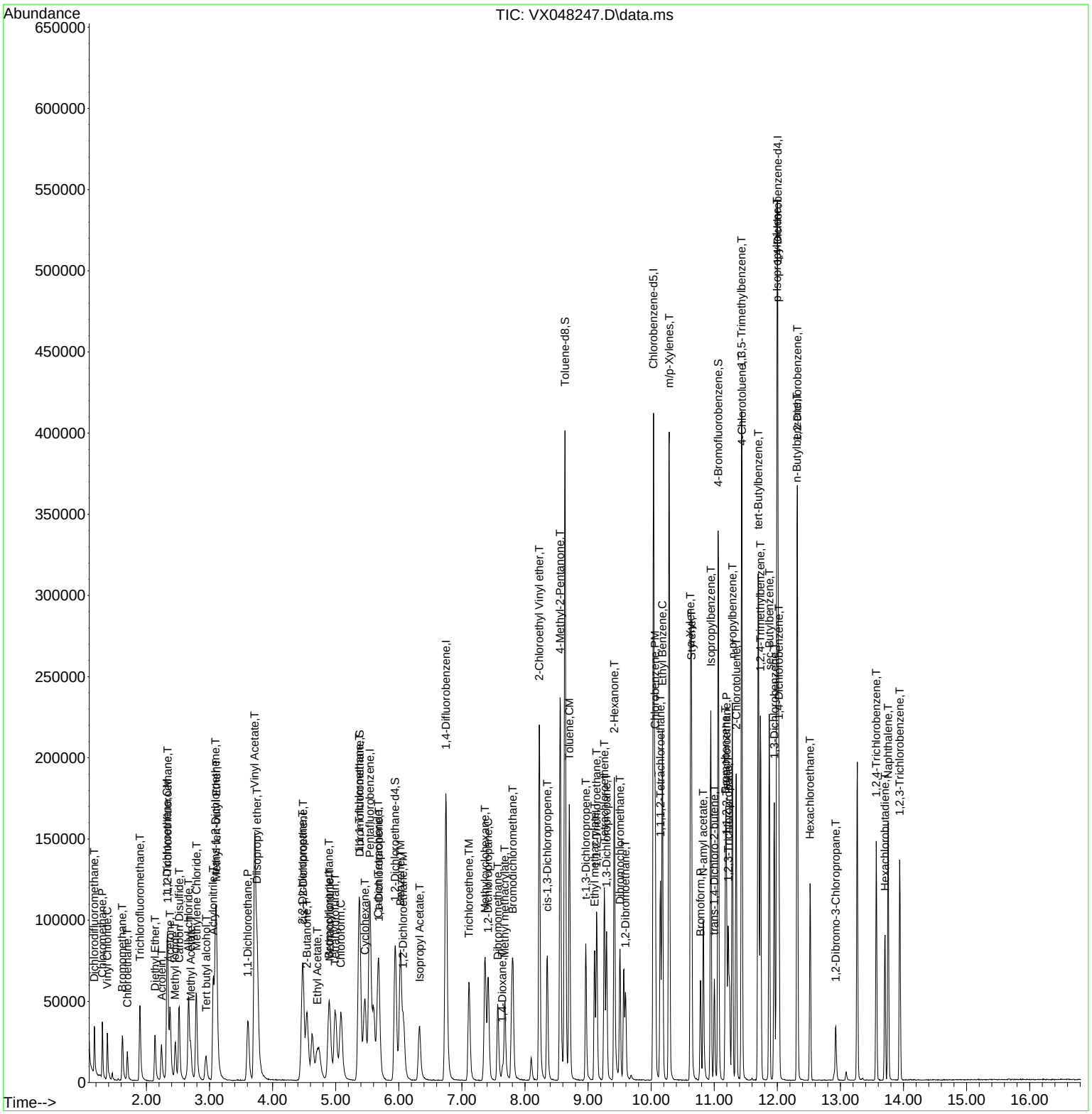
(#) = qualifier out of range (m) = manual integration (+) = signals summed

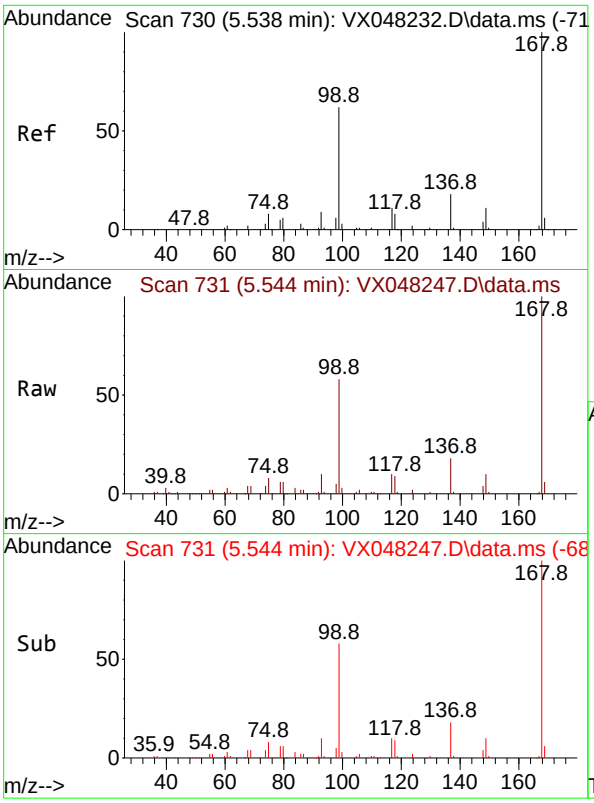
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048247.D
Acq On : 20 Oct 2025 18:22
Operator : JC/MD
Sample : VX1020WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Quant Time: Oct 21 06:14:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration



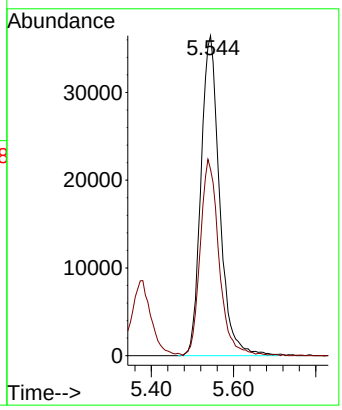


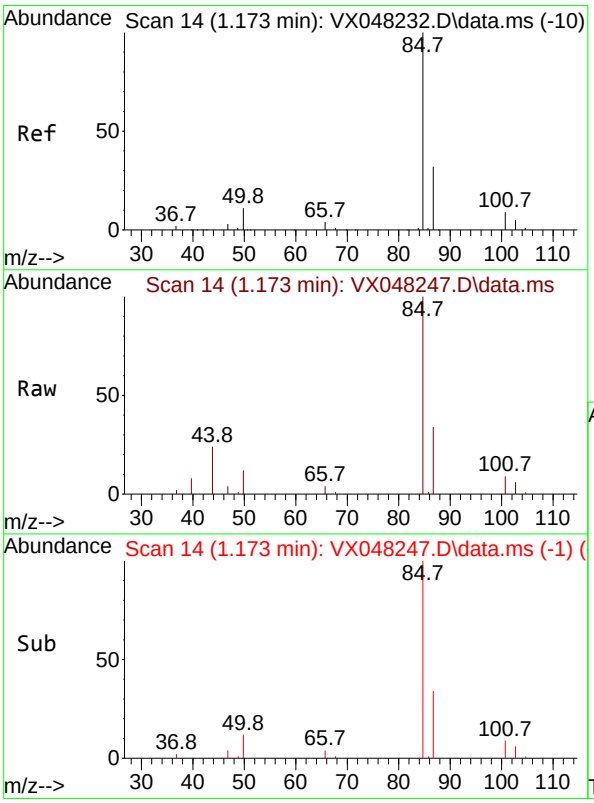
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion:168 Resp: 114781

Ion	Ratio	Lower	Upper
168	100		
99	58.0	46.4	69.6

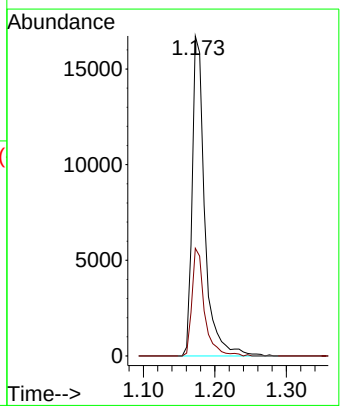


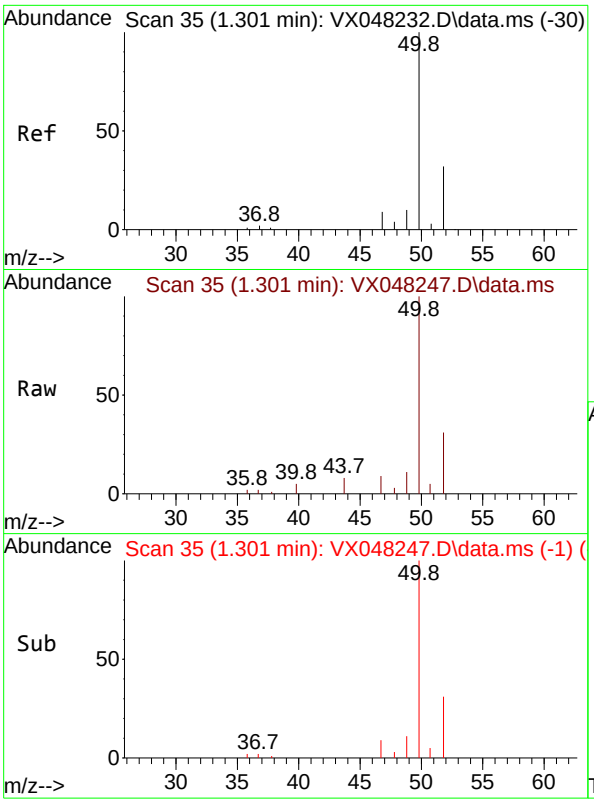


#2
Dichlorodifluoromethane
Concen: 17.353 ug/l
RT: 1.173 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 85 Resp: 20476

Ion	Ratio	Lower	Upper
85	100		
87	33.7	15.3	45.9



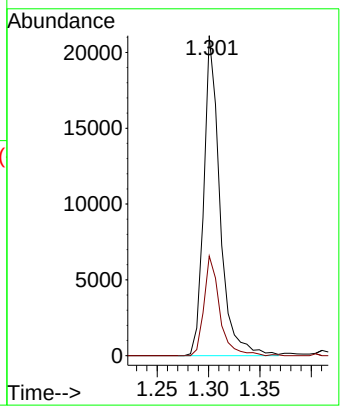


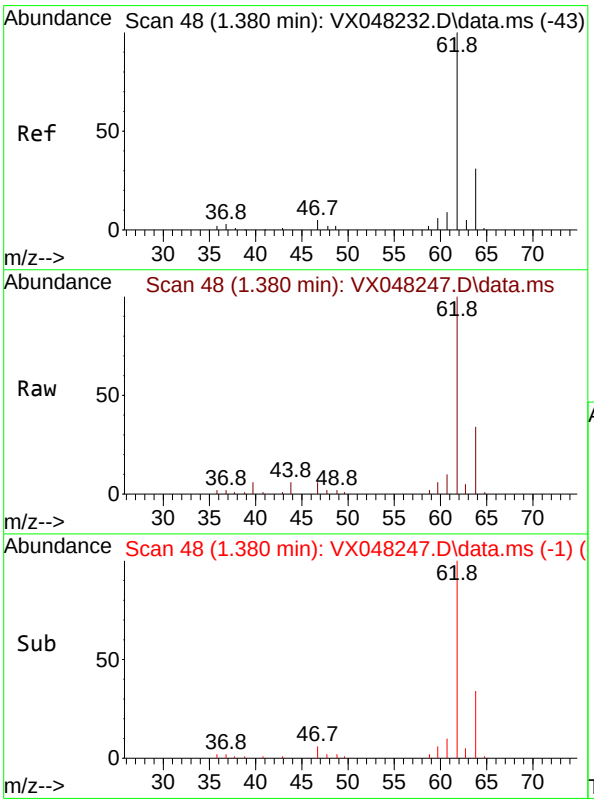
#3
Chloromethane
Concen: 20.941 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 50 Resp: 23064

Ion	Ratio	Lower	Upper
50	100		
52	31.2	25.9	38.9

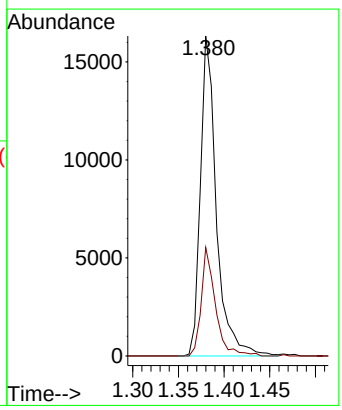


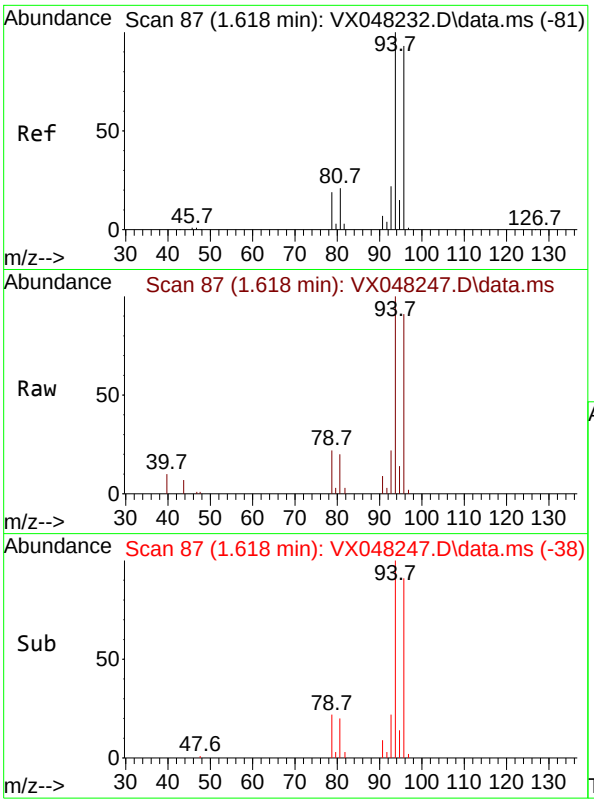


#4
Vinyl Chloride
Concen: 19.402 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 62 Resp: 19788

Ion	Ratio	Lower	Upper
62	100		
64	33.9	25.1	37.7



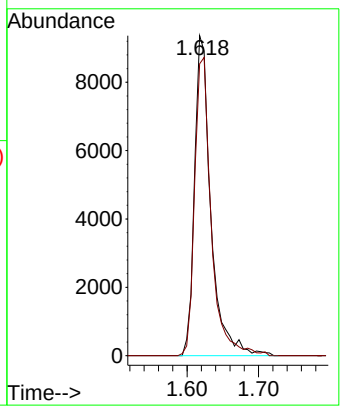


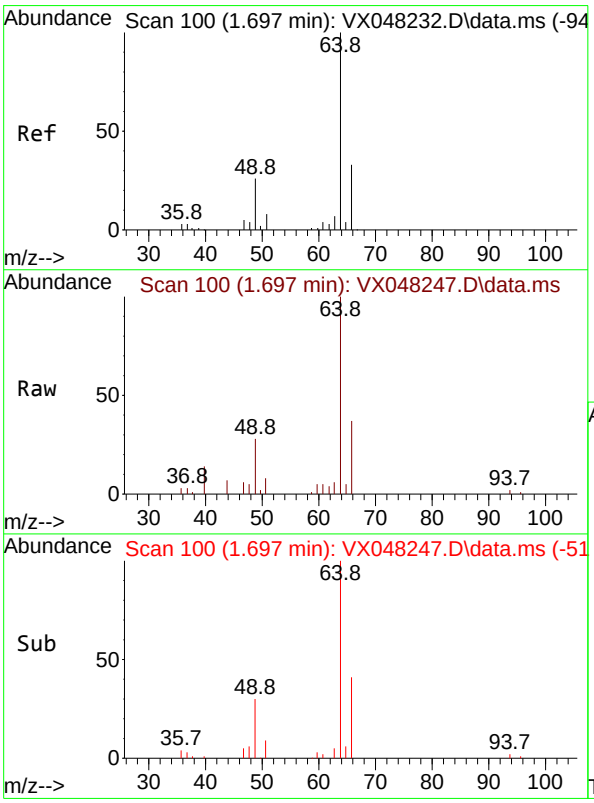
#5
Bromomethane
Concen: 21.485 ug/l
RT: 1.618 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 94 Resp: 14871

Ion	Ratio	Lower	Upper
94	100		
96	91.2	76.0	114.0

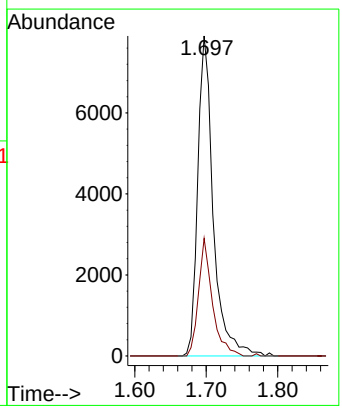


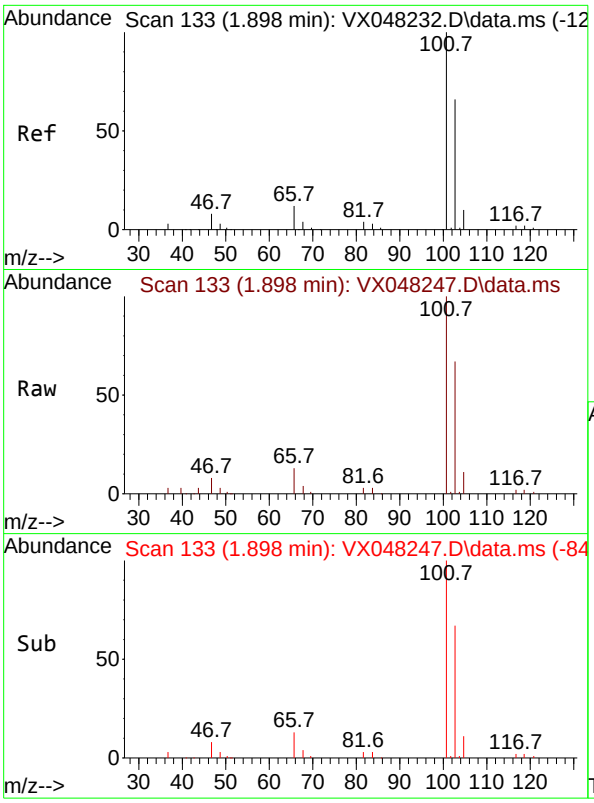


#6
Chloroethane
Concen: 19.883 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 64 Resp: 11916

Ion	Ratio	Lower	Upper
64	100		
66	36.7	23.9	35.9#



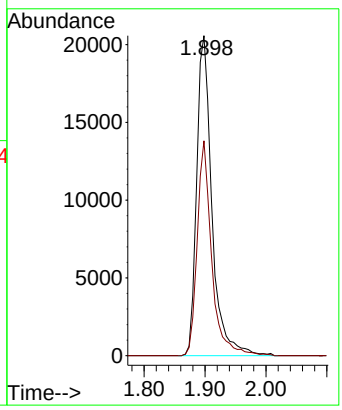


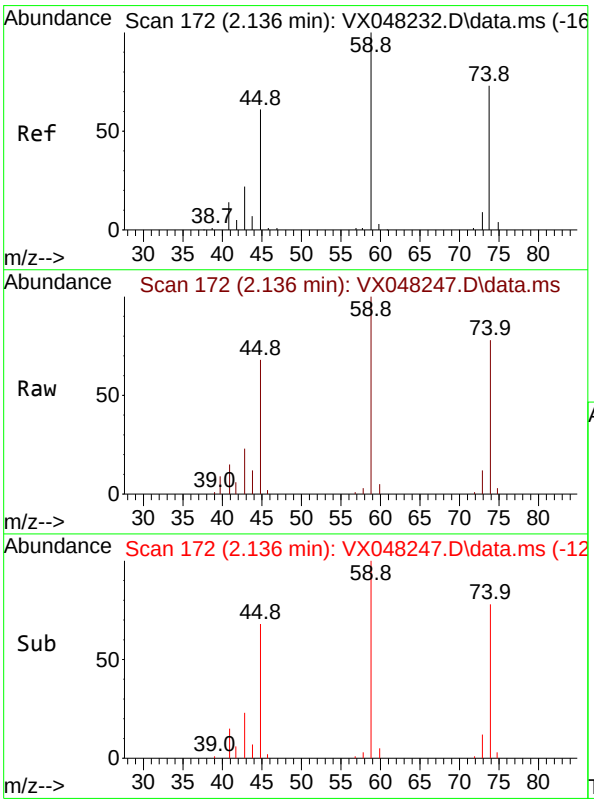
#7
Trichlorofluoromethane
Concen: 18.282 ug/l
RT: 1.898 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion:101 Resp: 35760

Ion	Ratio	Lower	Upper
101	100		
103	67.2	51.6	77.4

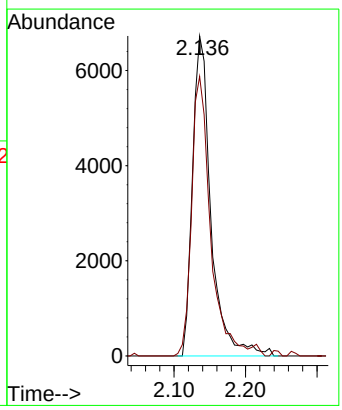


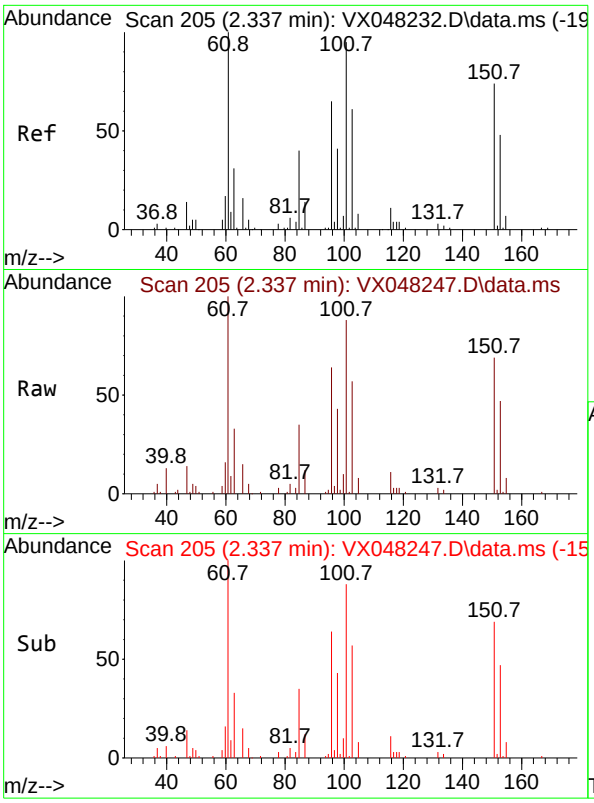


#8
Diethyl Ether
Concen: 21.901 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 74 Resp: 12054

Ion	Ratio	Lower	Upper
74	100		
45	88.8	50.0	149.8



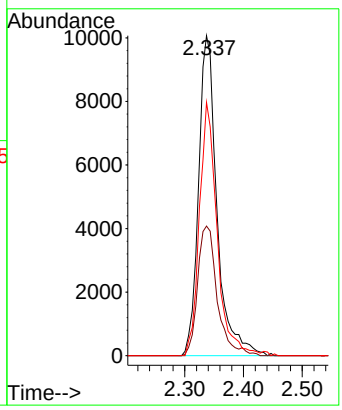


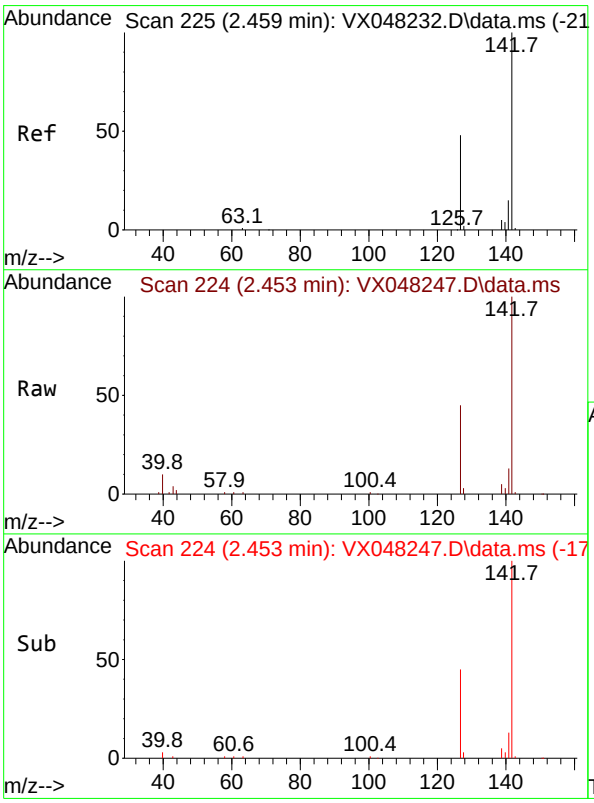
#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.742 ug/l
RT: 2.337 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion:101 Resp: 21976

Ion	Ratio	Lower	Upper
101	100		
85	43.2	35.6	53.4
151	76.5	58.0	87.0

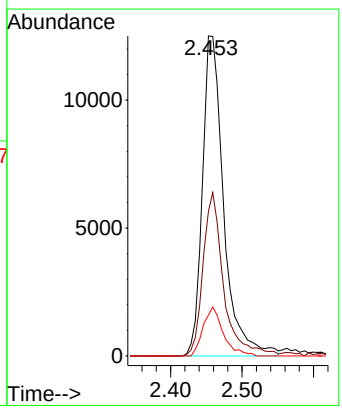


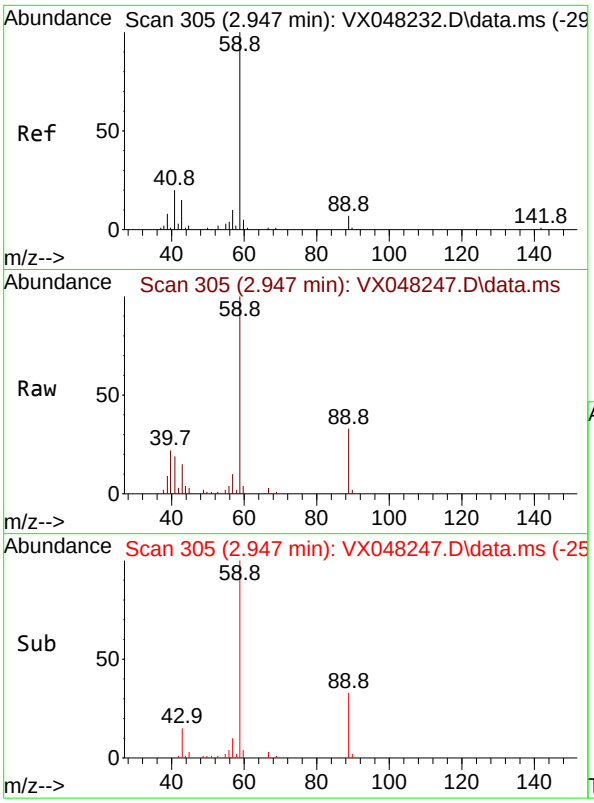


#10
Methyl Iodide
Concen: 16.631 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:142 Resp: 25897

Ion	Ratio	Lower	Upper
142	100		
127	49.3	38.5	57.7
141	14.4	11.6	17.4



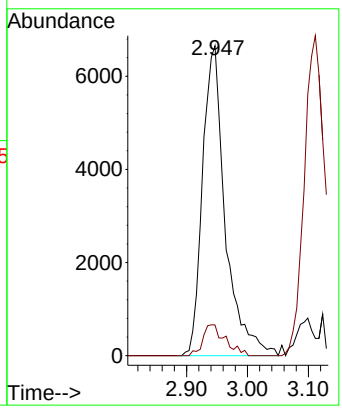


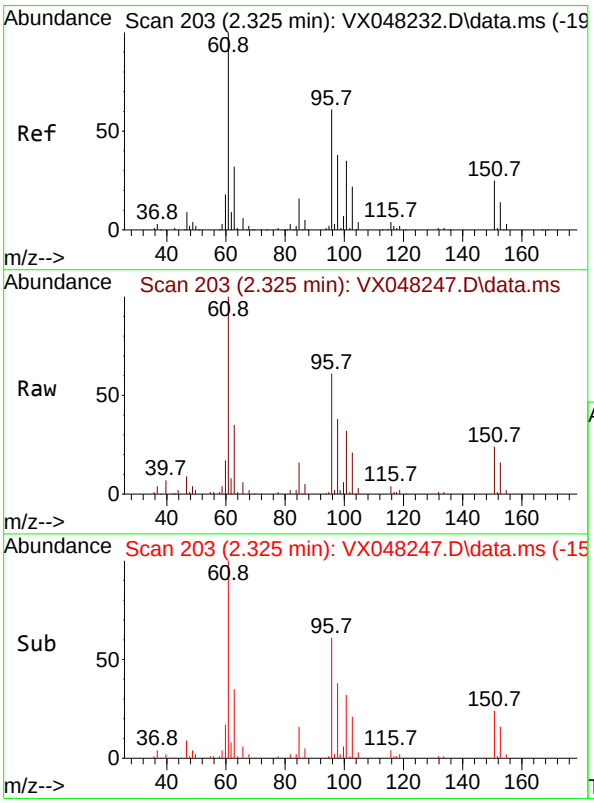
#11
Tert butyl alcohol
Concen: 108.152 ug/l
RT: 2.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 59 Resp: 17281

Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.2	12.4

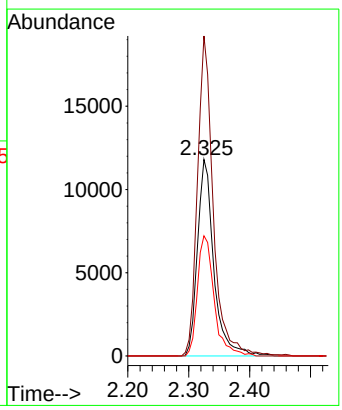


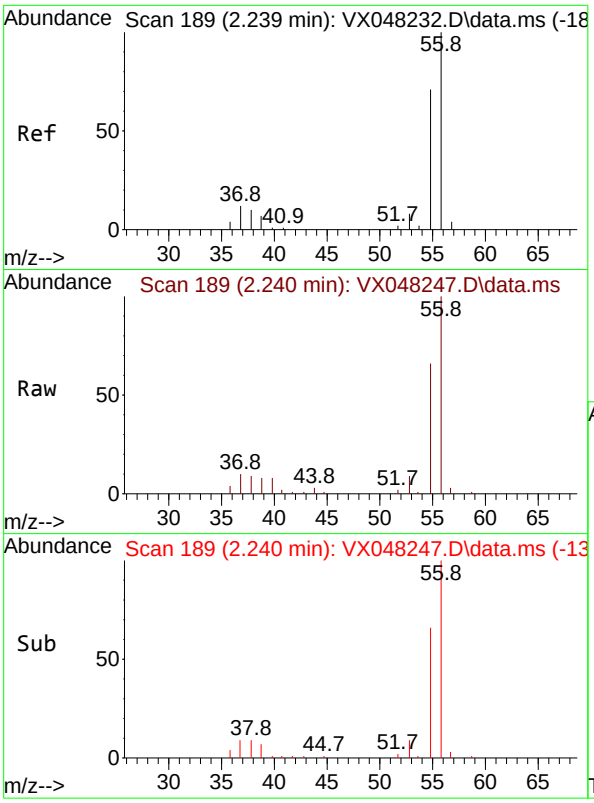


#12
1,1-Dichloroethene
Concen: 18.323 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 96 Resp: 22080

Ion	Ratio	Lower	Upper
96	100		
61	162.9	139.0	208.6
98	63.7	52.4	78.6



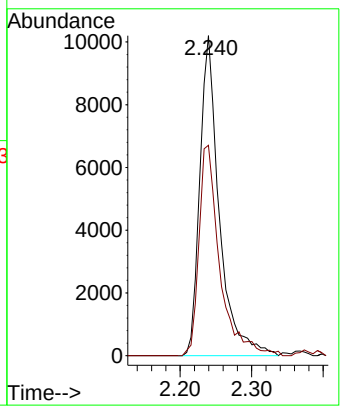


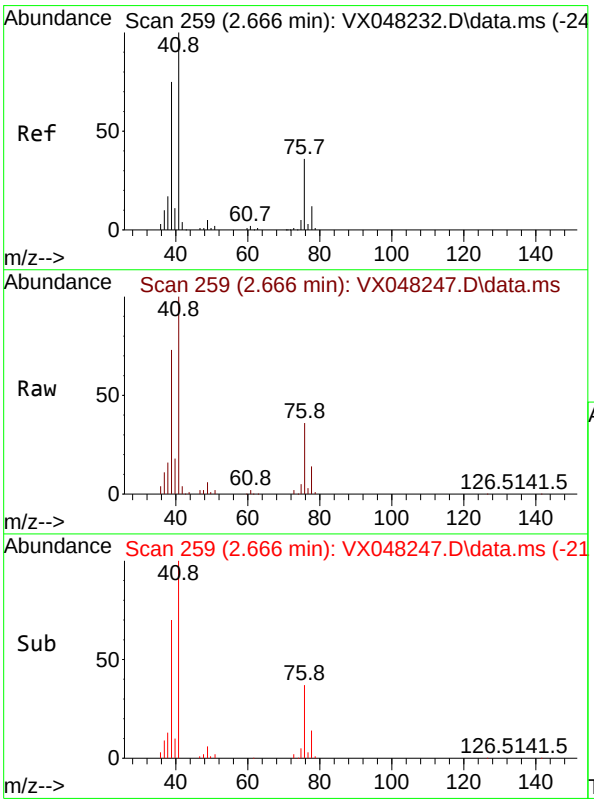
#13
Acrolein
Concen: 117.991 ug/l
RT: 2.240 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 56 Resp: 19228

Ion	Ratio	Lower	Upper
56	100		
55	70.4	56.1	84.1

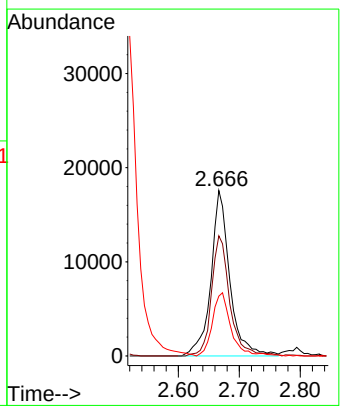


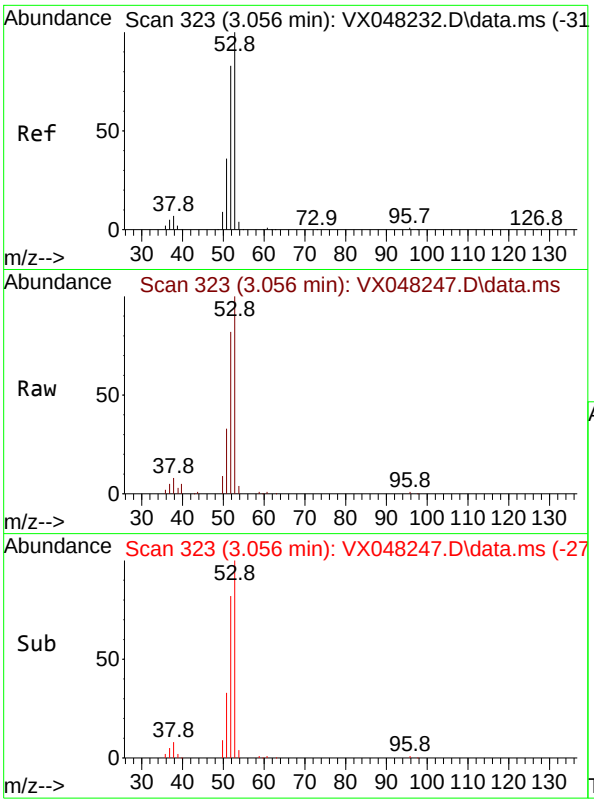


#14
Allyl chloride
Concen: 18.968 ug/l
RT: 2.666 min Scan# 259
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 41 Resp: 37950

Ion	Ratio	Lower	Upper
41	100		
39	70.1	56.0	84.0
76	36.3	27.5	41.3



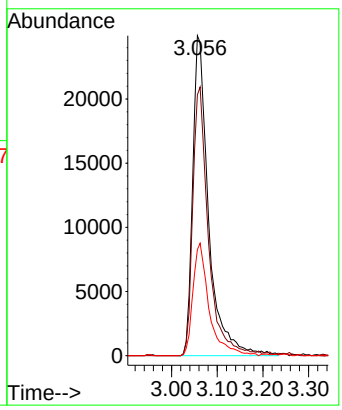


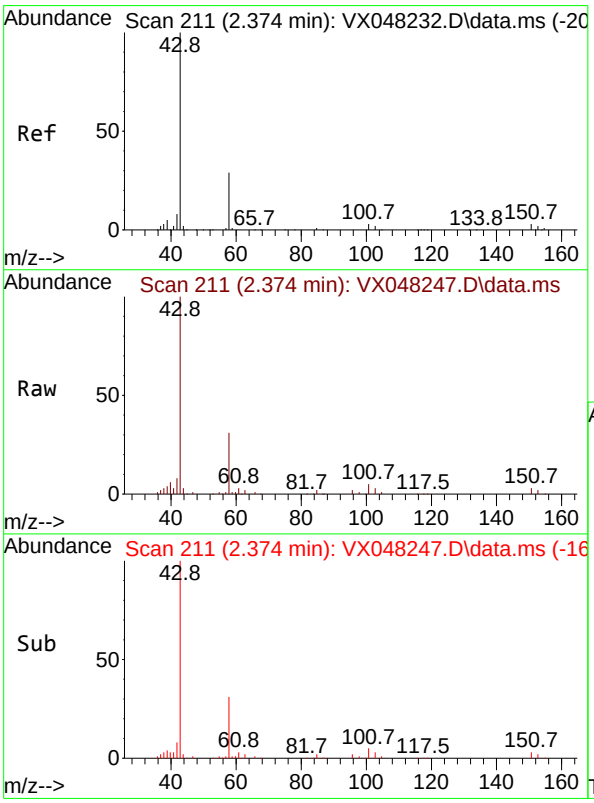
#15
Acrylonitrile
Concen: 104.933 ug/l
RT: 3.056 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 53 Resp: 60459

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.1	99.1
51	35.9	29.0	43.4

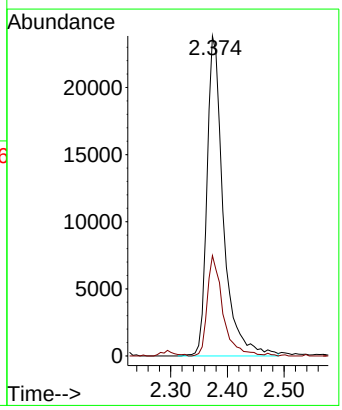


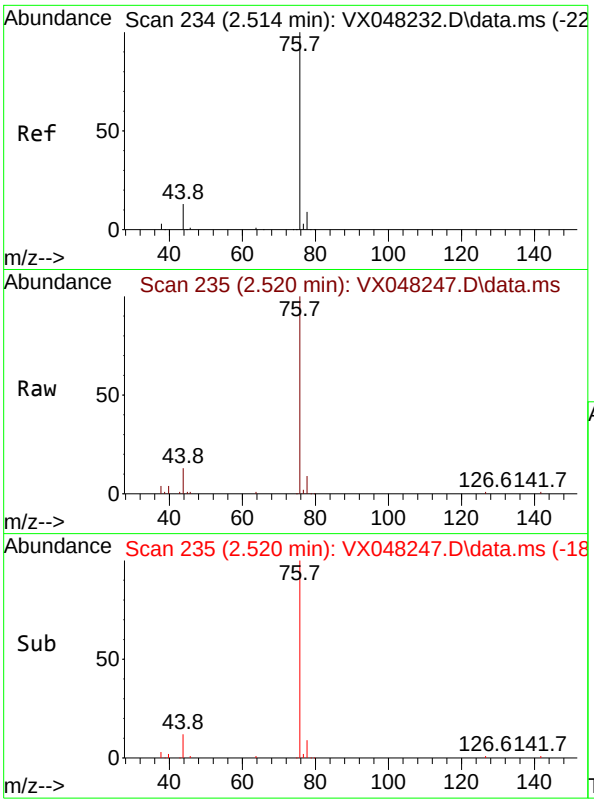


#16
Acetone
Concen: 86.302 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 43 Resp: 47646

Ion	Ratio	Lower	Upper
43	100		
58	31.4	23.4	35.2



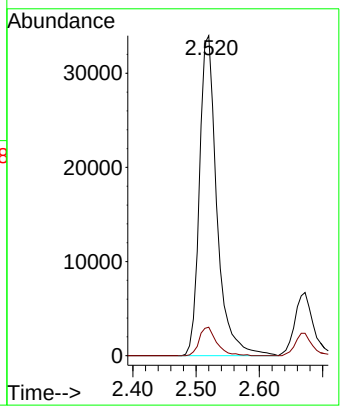


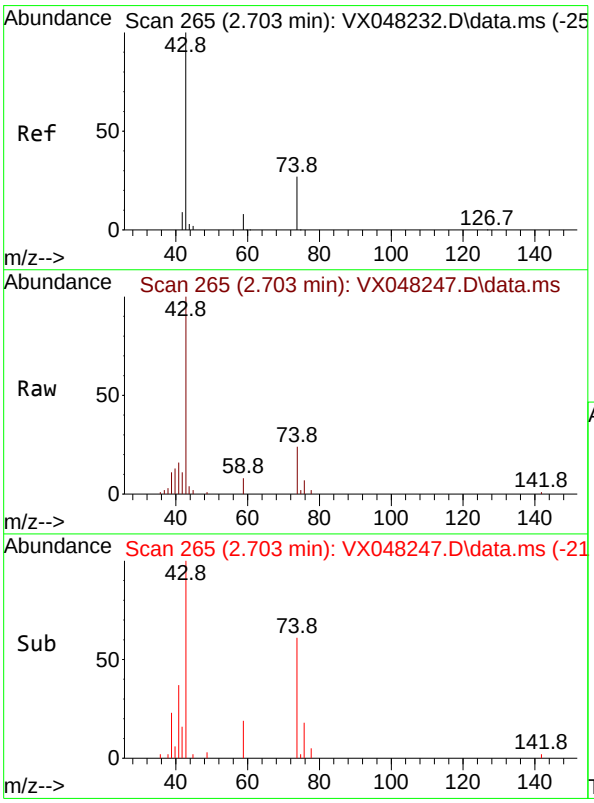
#17
Carbon Disulfide
Concen: 17.164 ug/l
RT: 2.520 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 76 Resp: 65187

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.1	10.7

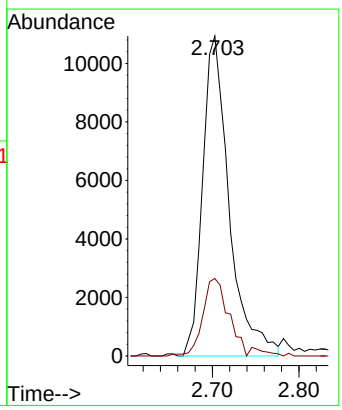


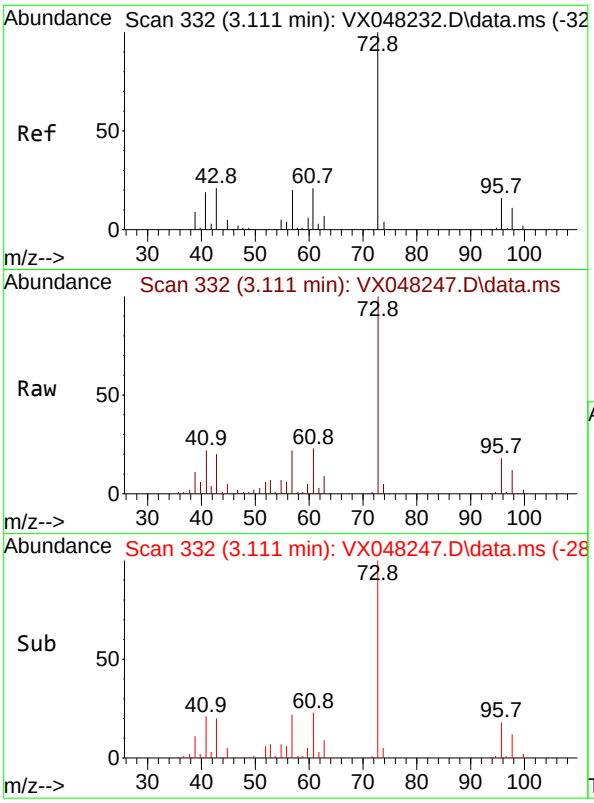


#18
Methyl Acetate
Concen: 20.204 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 43 Resp: 23295

Ion	Ratio	Lower	Upper
43	100		
74	24.1	17.5	26.3



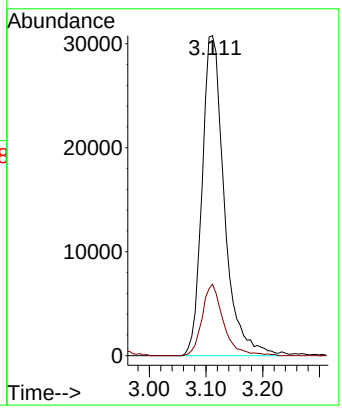


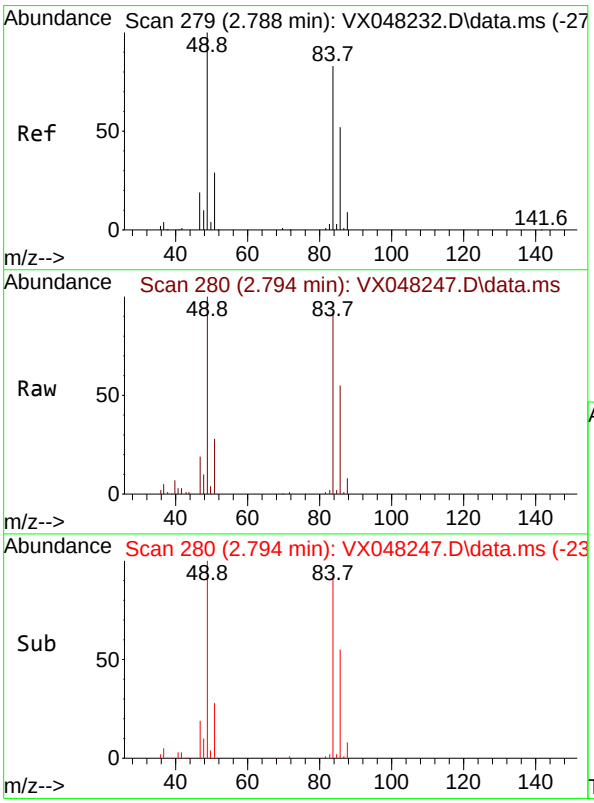
#19
Methyl tert-butyl Ether
Concen: 20.360 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 73 Resp: 83700

Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.7	26.5

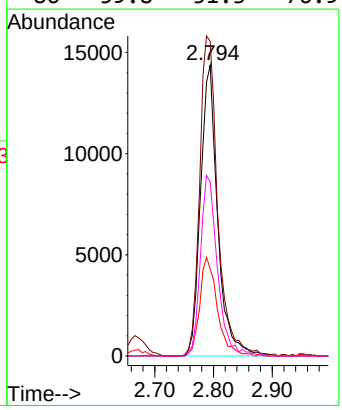


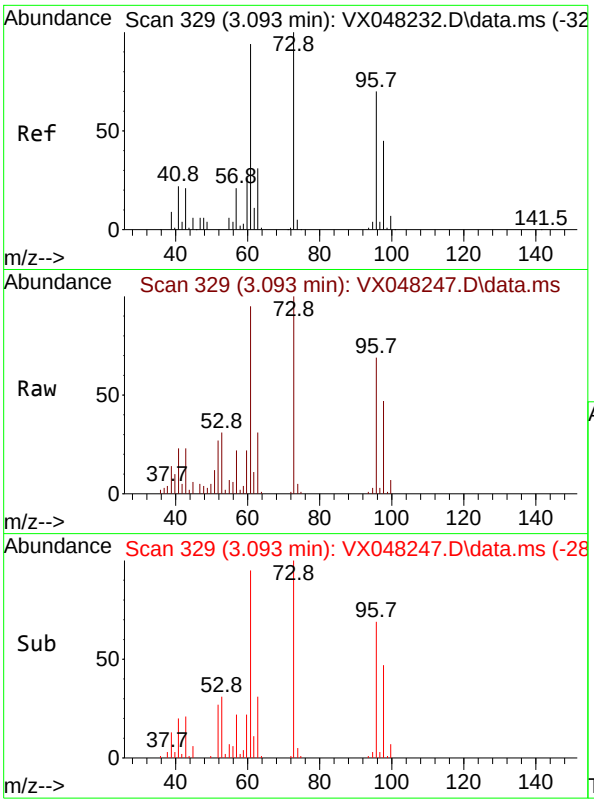


#20
Methylene Chloride
Concen: 21.703 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 84 Resp: 29196

Ion	Ratio	Lower	Upper
84	100		
49	108.2	104.1	156.1
51	29.8	31.3	46.9#
86	59.8	51.3	76.9



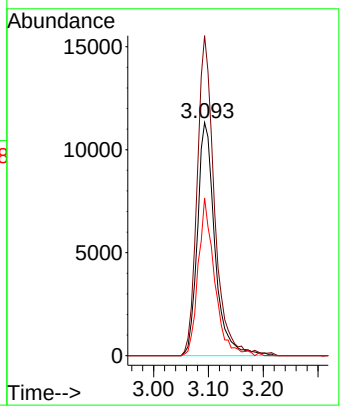


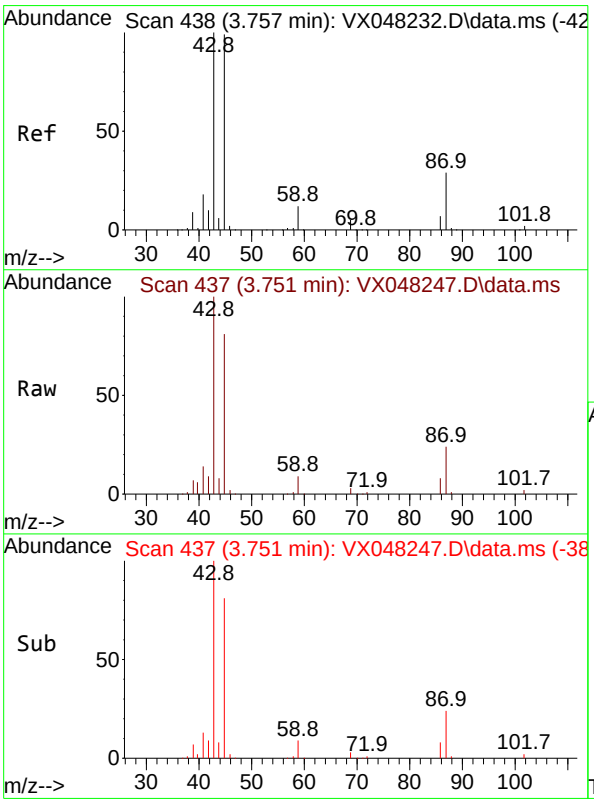
#21
trans-1,2-Dichloroethene
Concen: 18.982 ug/l
RT: 3.093 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 96 Resp: 25126

Ion	Ratio	Lower	Upper
96	100		
61	137.2	111.9	167.9
98	67.7	51.2	76.8

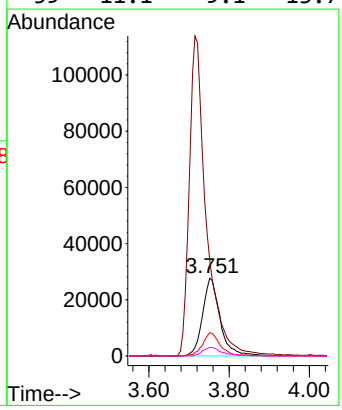


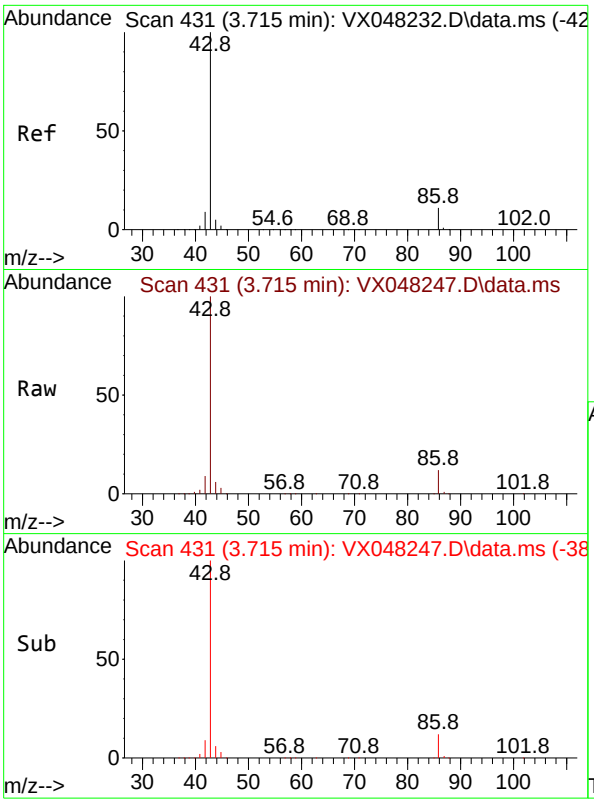


#22
Diisopropyl ether
Concen: 21.145 ug/l
RT: 3.751 min Scan# 437
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 45 Resp: 84376

Ion	Ratio	Lower	Upper
45	100		
43	122.6	89.8	134.8
87	29.9	20.6	31.0
59	11.1	9.1	13.7



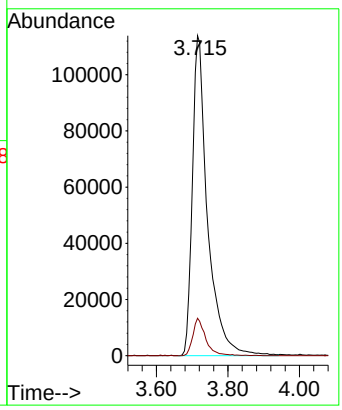


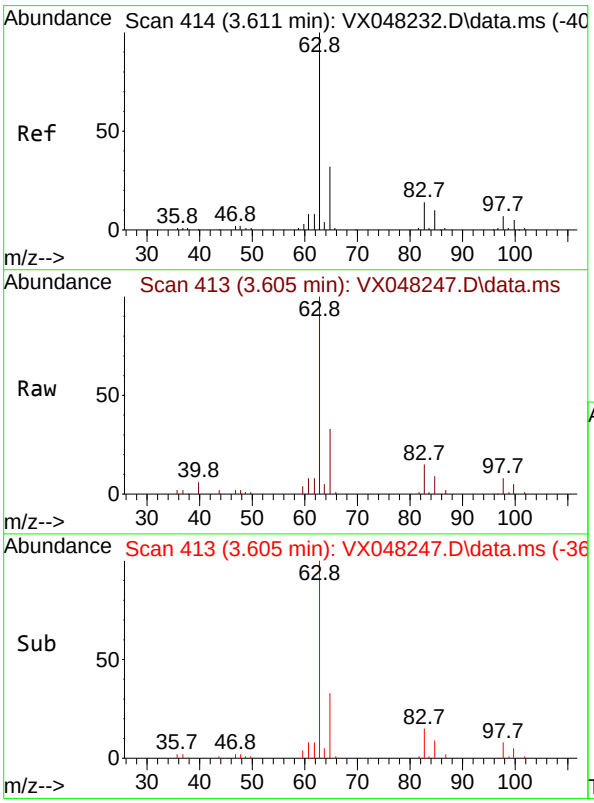
#23
Vinyl Acetate
Concen: 105.369 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 43 Resp: 335871

Ion	Ratio	Lower	Upper
43	100		
86	11.7	7.9	11.9

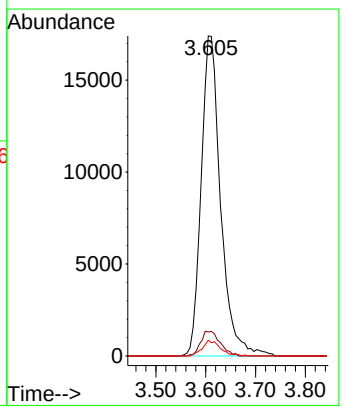


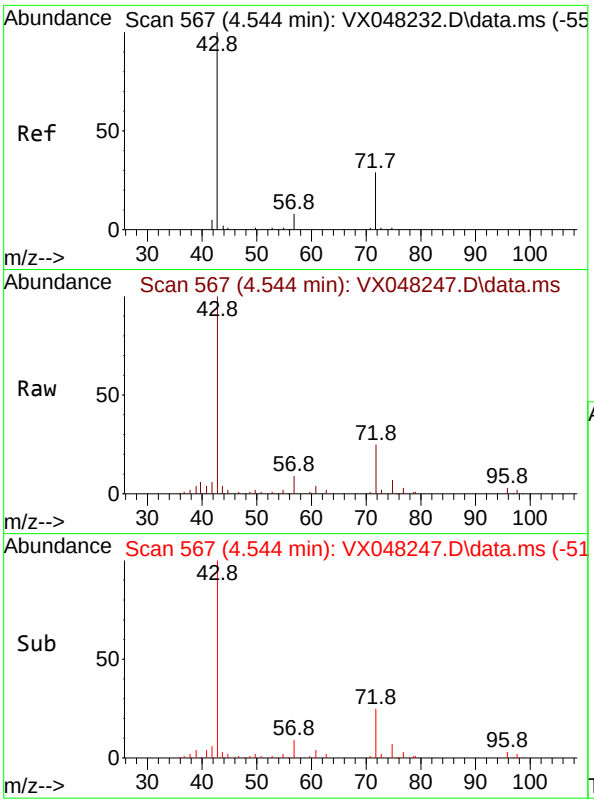


#24
1,1-Dichloroethane
Concen: 19.544 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 63 Resp: 47157

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.5	10.6
100	4.9	2.1	6.3



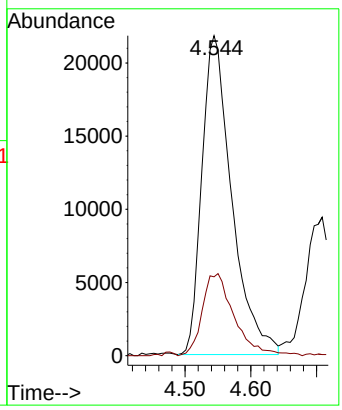


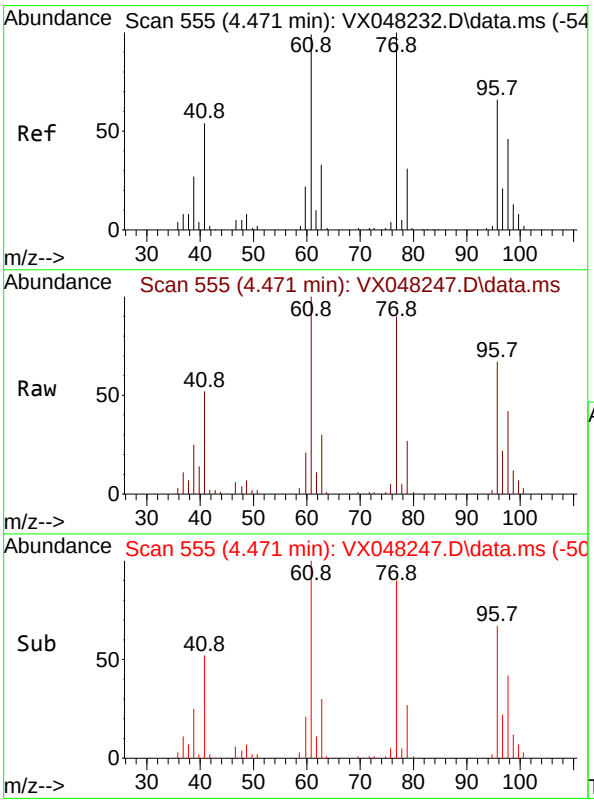
#25
2-Butanone
Concen: 98.664 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 43 Resp: 68946

Ion	Ratio	Lower	Upper
43	100		
72	23.9	19.9	29.9

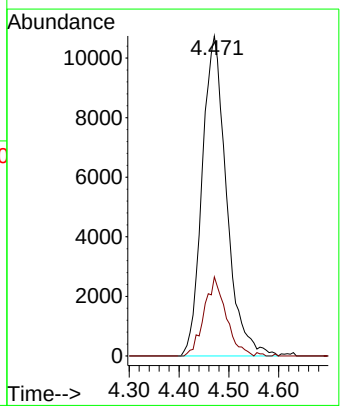


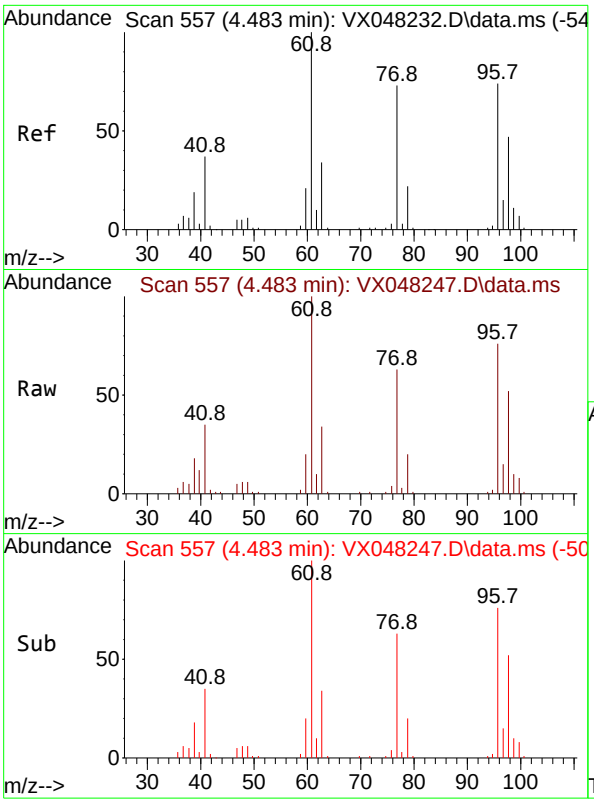


#26
2,2-Dichloropropane
Concen: 16.724 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 77 Resp: 36422

Ion	Ratio	Lower	Upper
77	100		
97	22.2	11.1	33.3



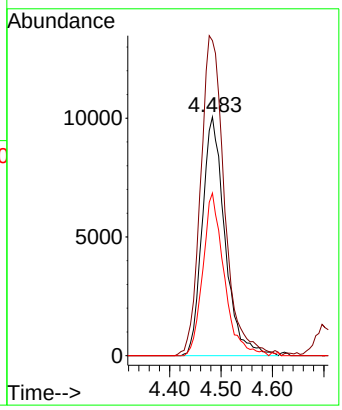


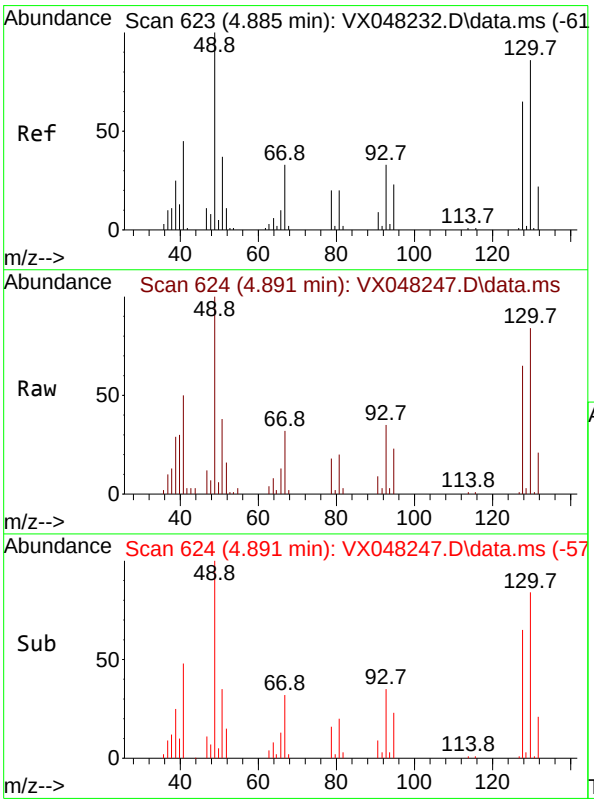
#27
cis-1,2-Dichloroethene
Concen: 19.938 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 96 Resp: 30801

Ion	Ratio	Lower	Upper
96	100		
61	141.4	0.0	294.2
98	64.1	0.0	128.4

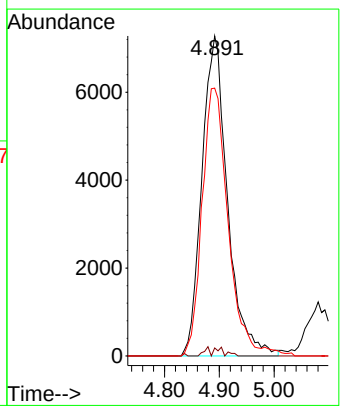


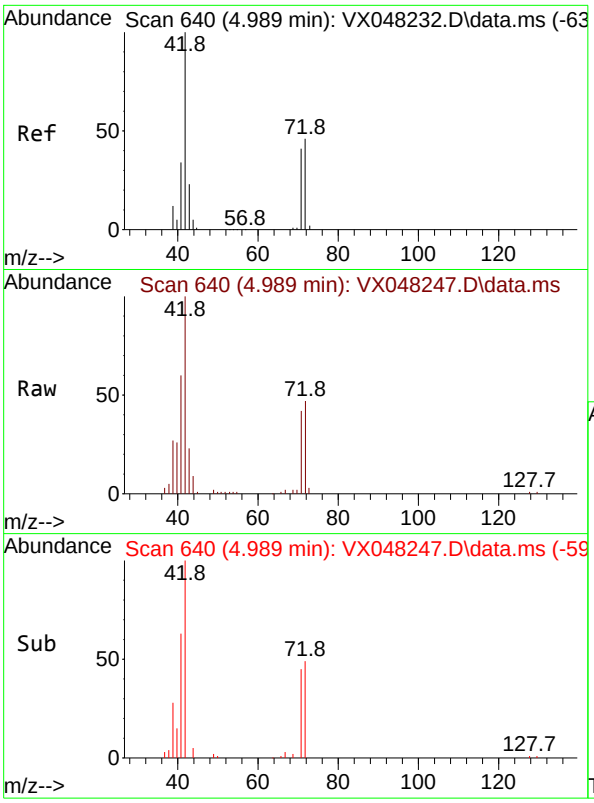


#28
Bromochloromethane
Concen: 23.567 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 49 Resp: 23578

Ion	Ratio	Lower	Upper
49	100		
129	0.6	0.0	4.4
130	85.5	59.3	88.9



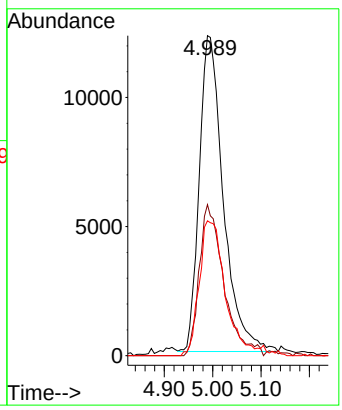


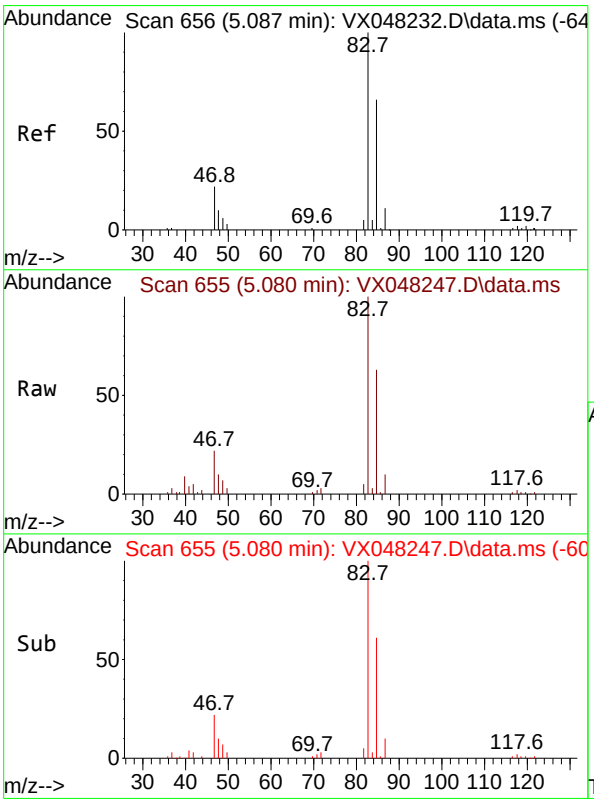
#29
Tetrahydrofuran
Concen: 101.247 ug/l
RT: 4.989 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 42 Resp: 42373

Ion	Ratio	Lower	Upper
42	100		
72	48.4	35.3	52.9
71	45.9	32.2	48.4

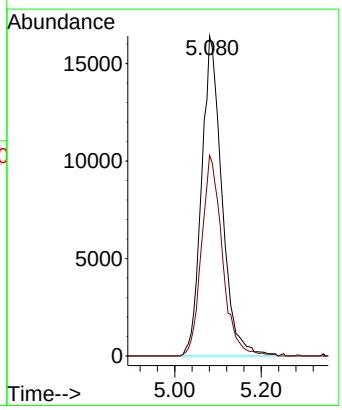


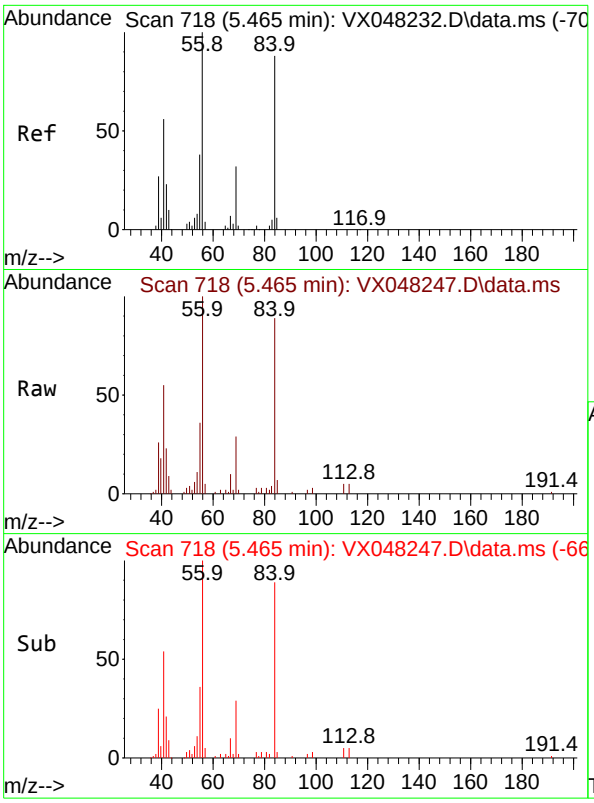


#30
Chloroform
Concen: 20.734 ug/l
RT: 5.080 min Scan# 655
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 83 Resp: 53451

Ion	Ratio	Lower	Upper
83	100		
85	63.8	50.1	75.1



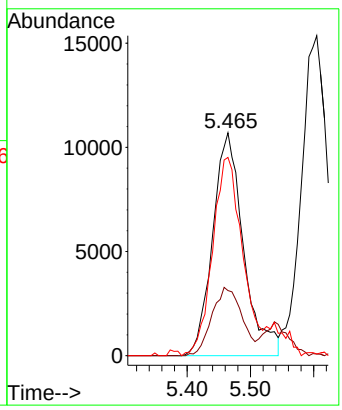


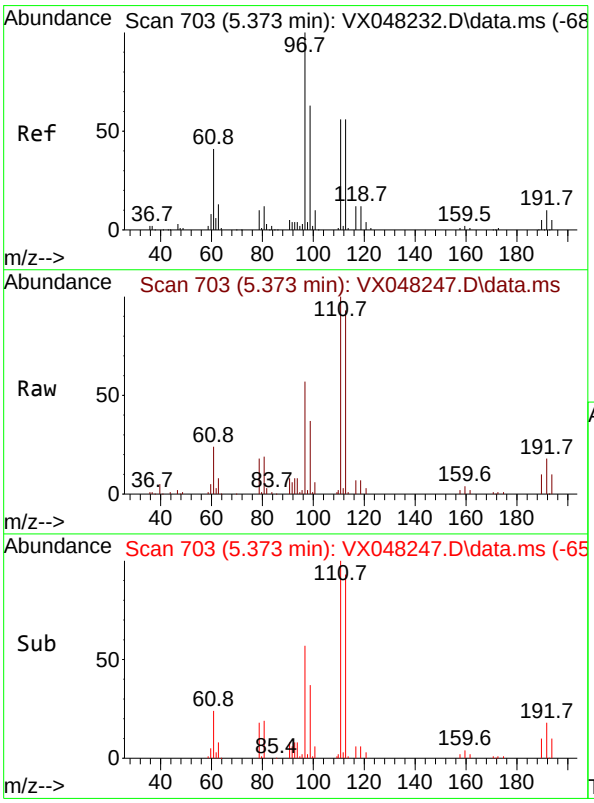
#31
Cyclohexane
Concen: 18.086 ug/l
RT: 5.465 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 56 Resp: 36130

Ion	Ratio	Lower	Upper
56	100		
69	29.2	23.0	34.6
84	86.9	64.6	97.0

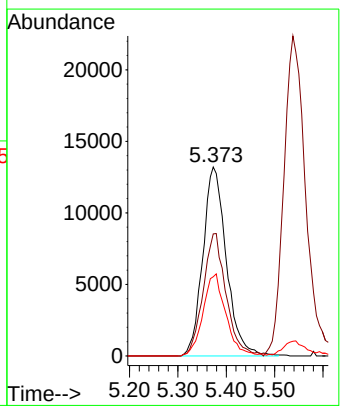


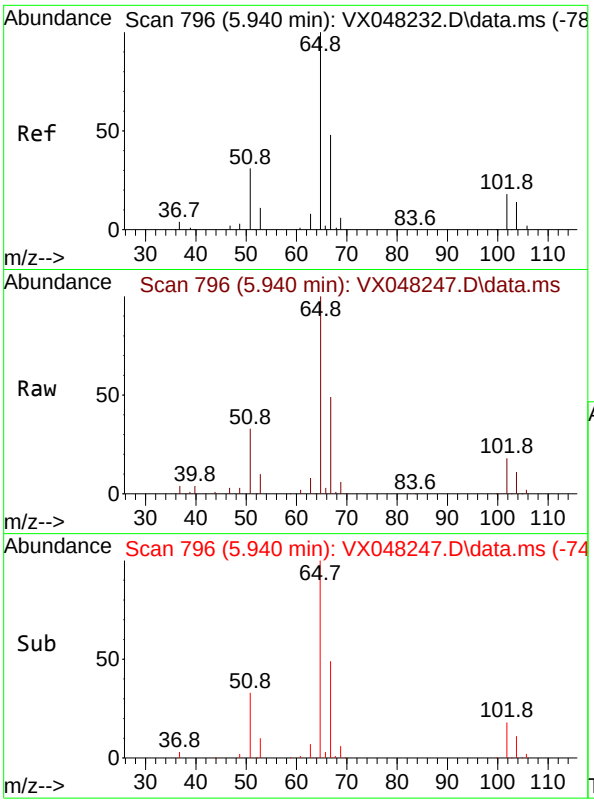


#32
1,1,1-Trichloroethane
Concen: 18.771 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 97 Resp: 44597

Ion	Ratio	Lower	Upper
97	100		
99	63.1	51.7	77.5
61	42.1	34.8	52.2



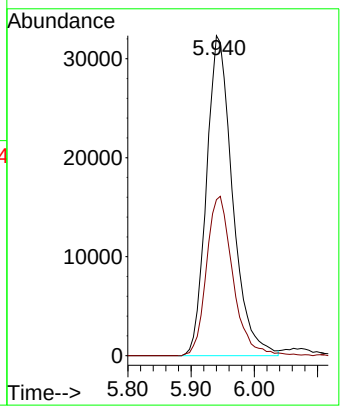


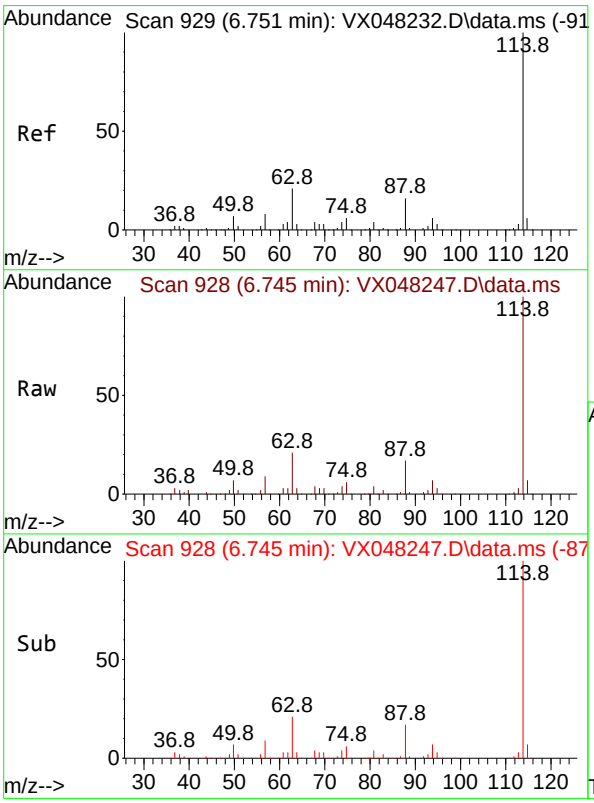
#33
1,2-Dichloroethane-d4
Concen: 57.512 ug/l
RT: 5.940 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 65 Resp: 92554

Ion	Ratio	Lower	Upper
65	100		
67	50.6	0.0	105.0

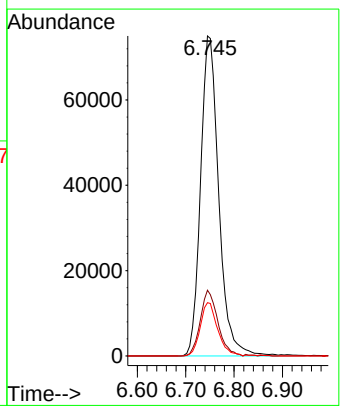


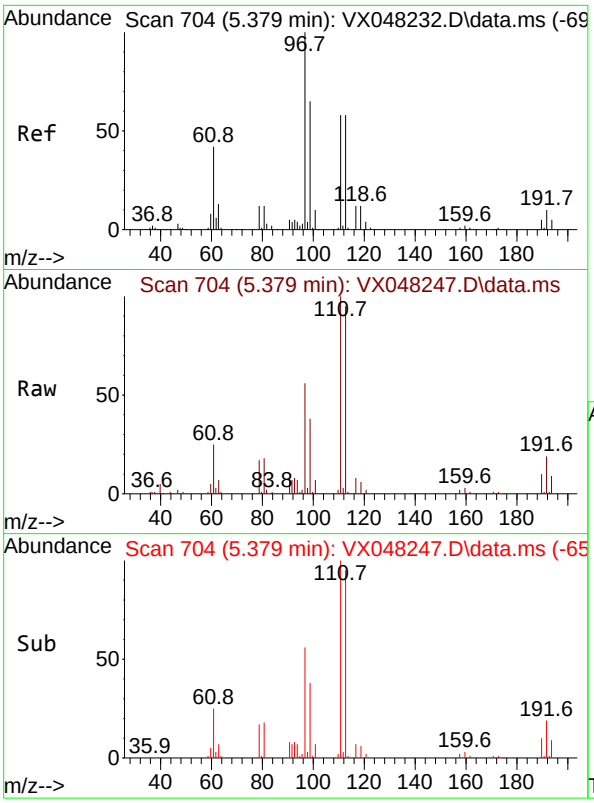


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:114 Resp: 195841

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	43.2
88	16.7	0.0	33.6



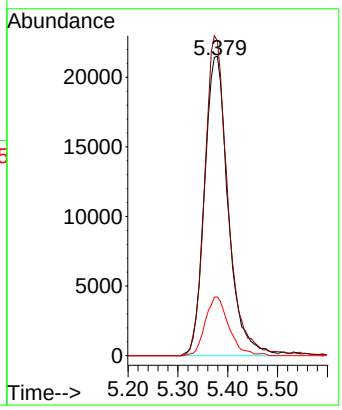


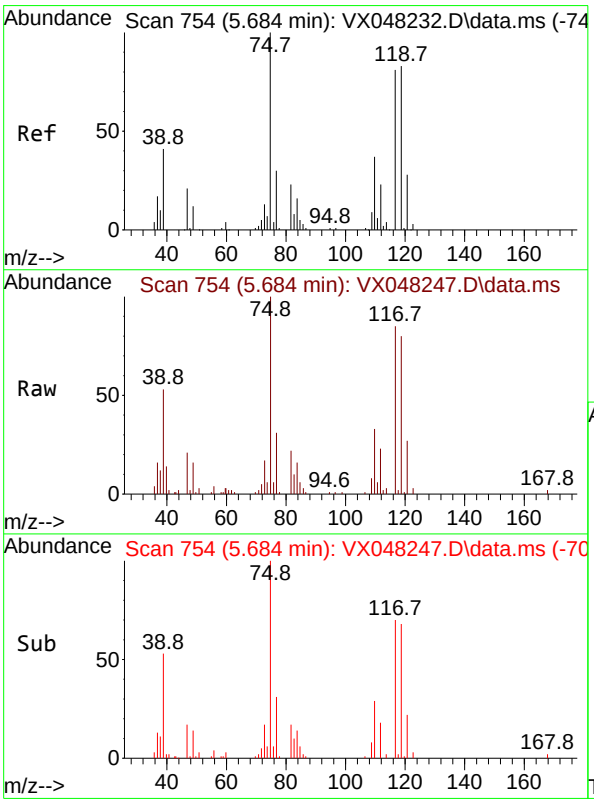
#35
Dibromofluoromethane
Concen: 53.212 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion:113 Resp: 71144

Ion	Ratio	Lower	Upper
113	100		
111	104.0	82.2	123.4
192	19.4	15.1	22.7

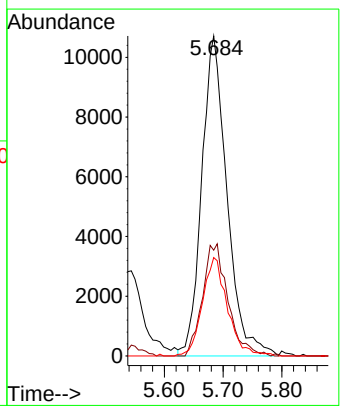


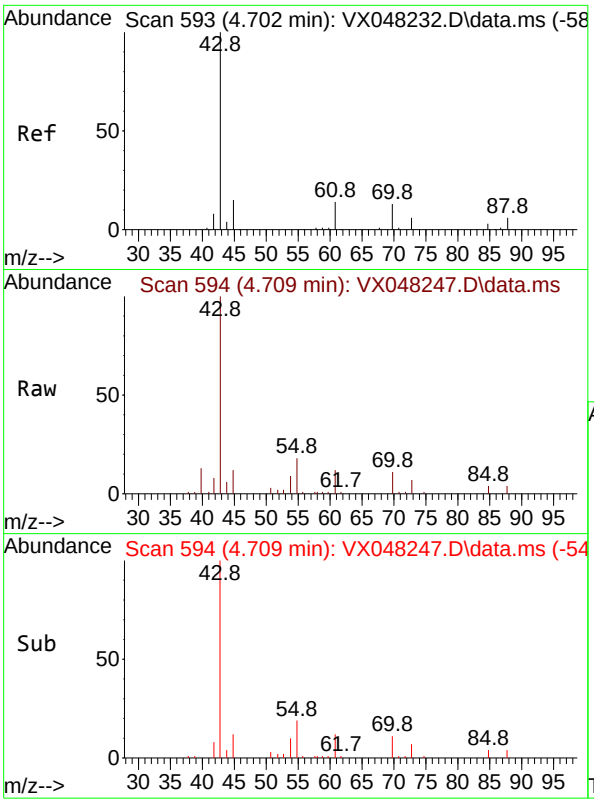


#36
1,1-Dichloropropene
Concen: 16.845 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 75 Resp: 32010

Ion	Ratio	Lower	Upper
75	100		
110	35.3	17.7	53.1
77	30.5	24.3	36.5



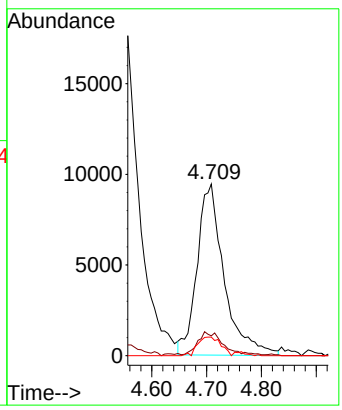


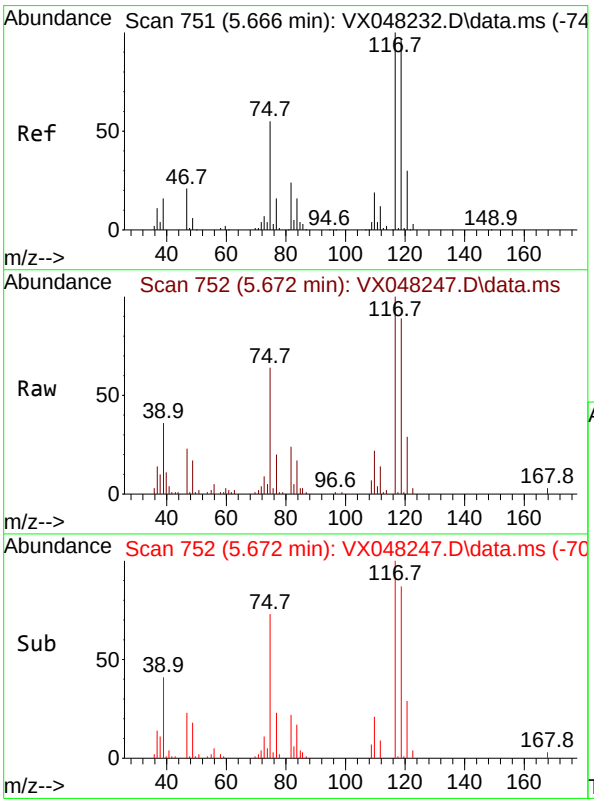
#37
Ethyl Acetate
Concen: 20.506 ug/l
RT: 4.709 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 43 Resp: 32299

Ion	Ratio	Lower	Upper
43	100		
61	12.0	10.6	15.8
70	9.3	7.8	11.6

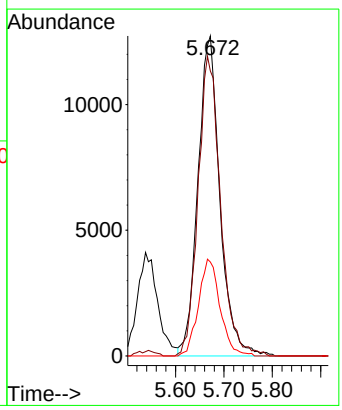


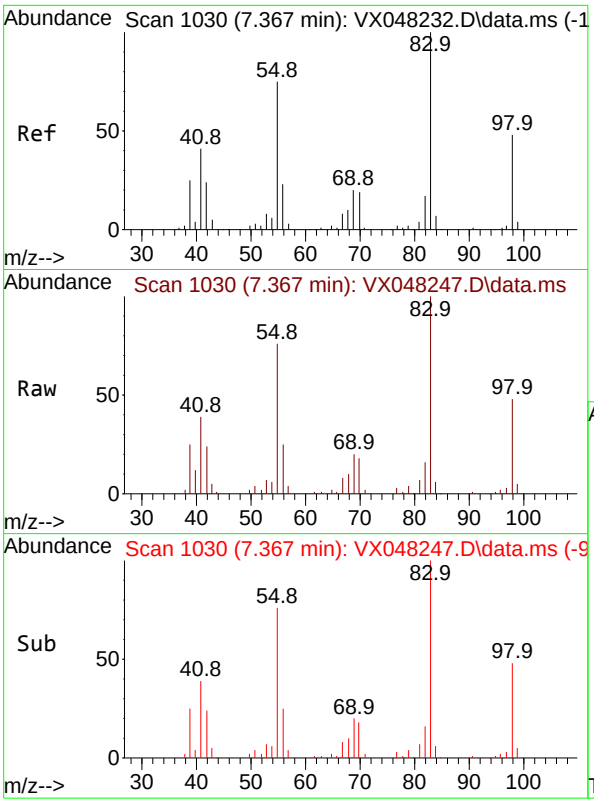


#38
Carbon Tetrachloride
Concen: 17.139 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:117 Resp: 40183

Ion	Ratio	Lower	Upper
117	100		
119	89.1	77.2	115.8
121	29.3	24.8	37.2



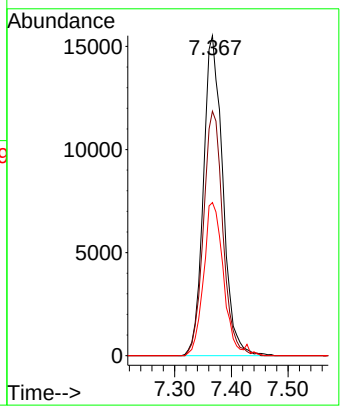


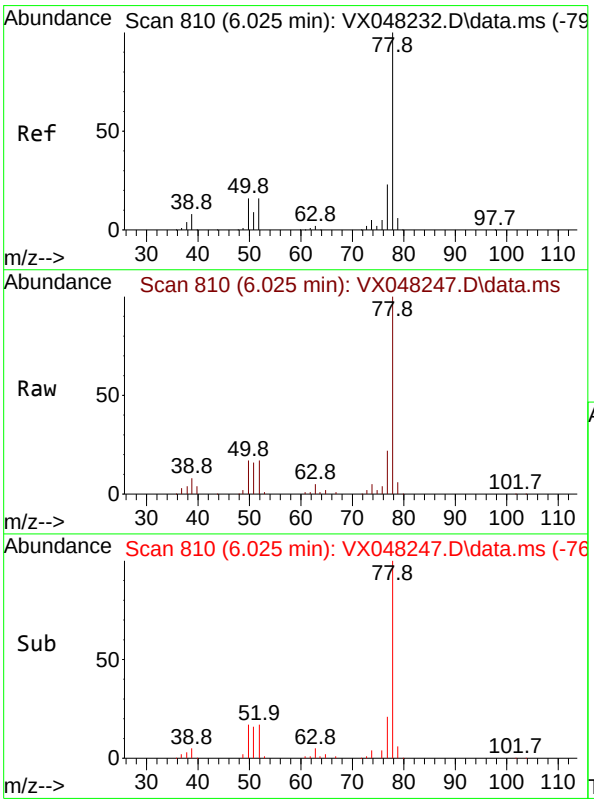
#39
Methylcyclohexane
Concen: 16.396 ug/l
RT: 7.367 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 83 Resp: 36797

Ion	Ratio	Lower	Upper
83	100		
55	76.4	66.2	99.2
98	47.8	38.9	58.3

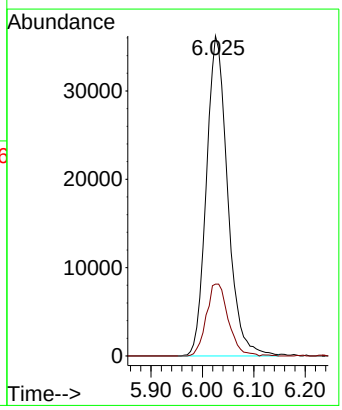


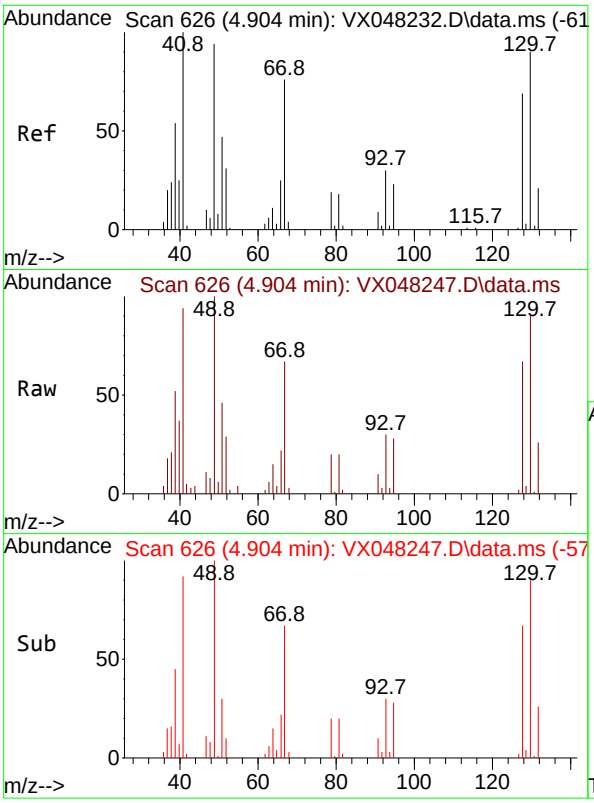


#40
Benzene
Concen: 18.880 ug/l
RT: 6.025 min Scan# 810
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 78 Resp: 104164

Ion	Ratio	Lower	Upper
78	100		
77	22.5	19.3	28.9



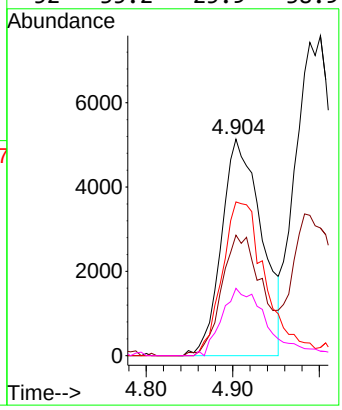


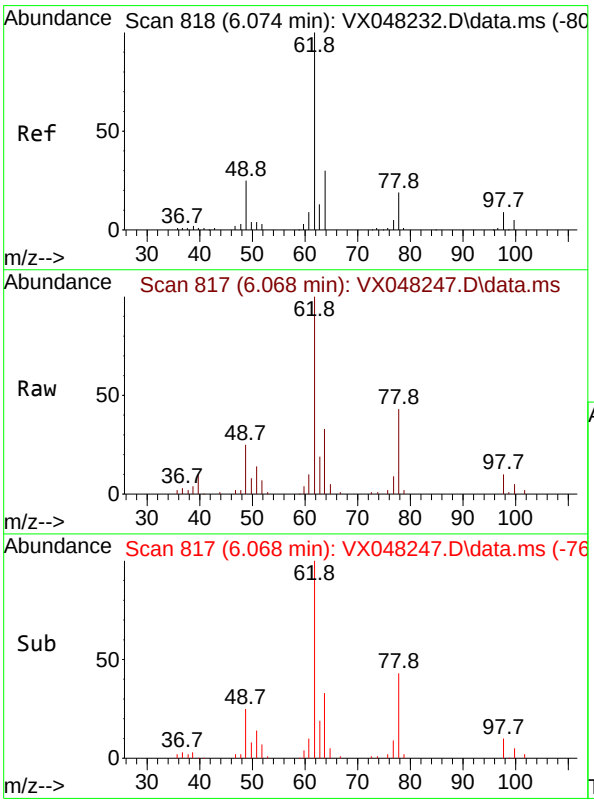
#41
Methacrylonitrile
Concen: 19.993 ug/l
RT: 4.904 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 41 Resp: 16538

Ion	Ratio	Lower	Upper
41	100		
39	53.8	44.0	66.0
67	77.6	58.7	88.1
52	35.2	25.9	38.9

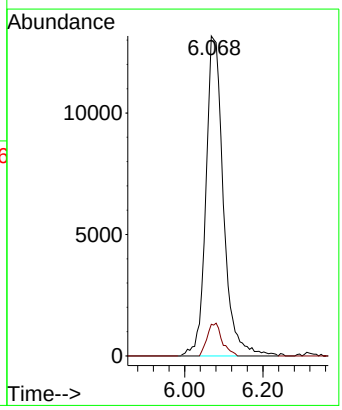


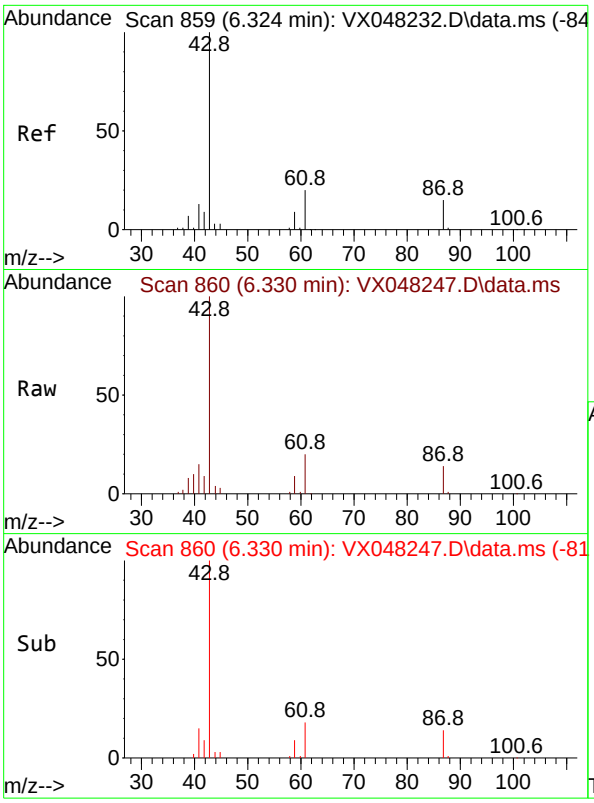


#42
1,2-Dichloroethane
Concen: 20.051 ug/l
RT: 6.068 min Scan# 817
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 62 Resp: 40822

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.2



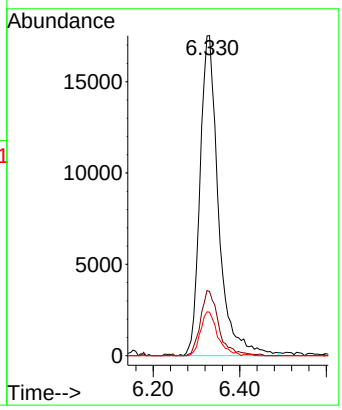


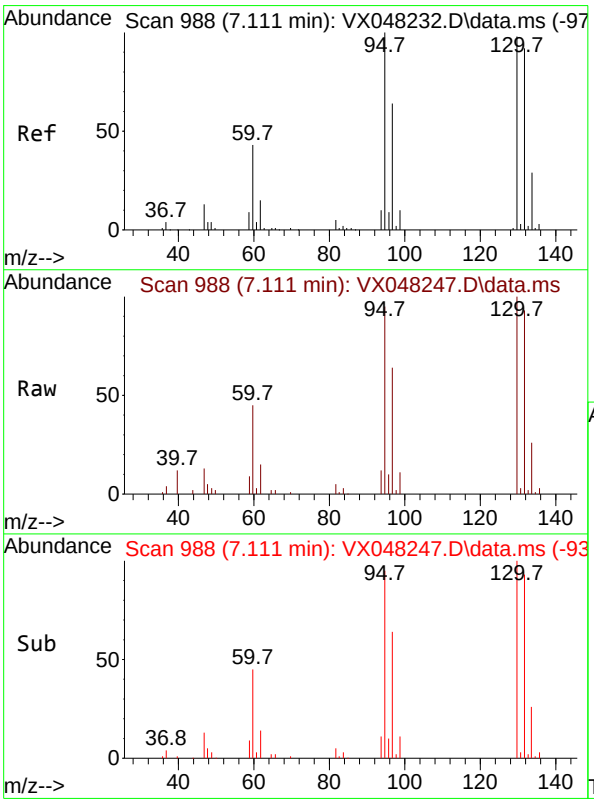
#43
Isopropyl Acetate
Concen: 20.109 ug/l
RT: 6.330 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 43 Resp: 52028

Ion	Ratio	Lower	Upper
43	100		
61	20.1	14.9	22.3
87	12.6	9.4	14.2

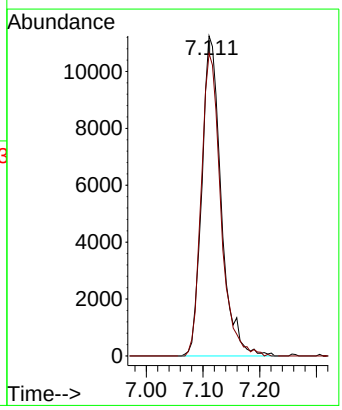


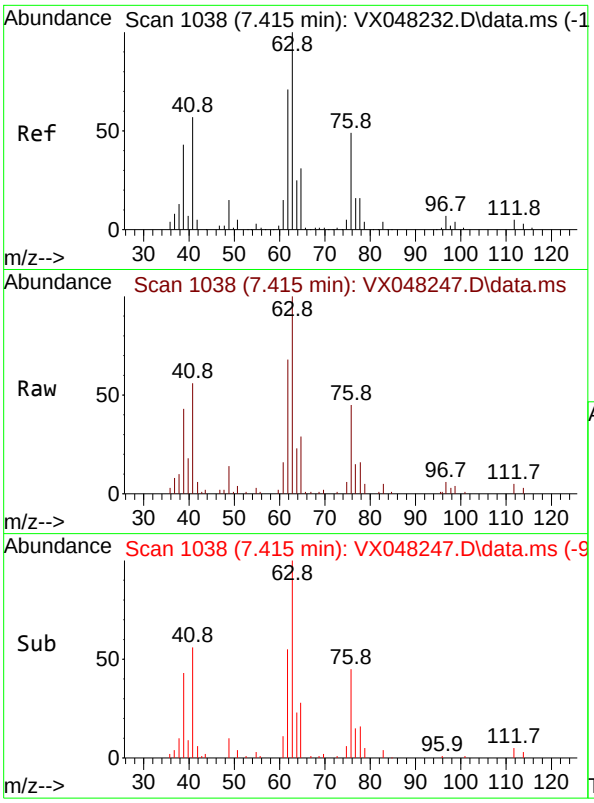


#44
Trichloroethene
Concen: 18.188 ug/l
RT: 7.111 min Scan# 988
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:130 Resp: 26497

Ion	Ratio	Lower	Upper
130	100		
95	94.6	0.0	200.6



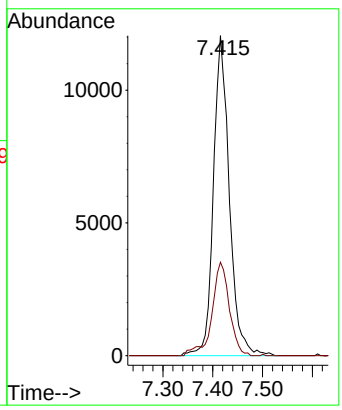


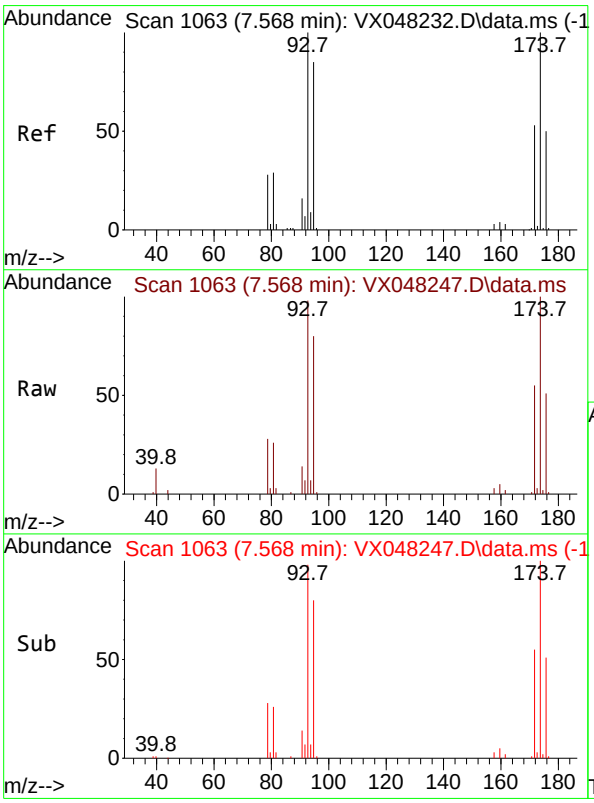
#45
1,2-Dichloropropane
Concen: 20.350 ug/l
RT: 7.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 63 Resp: 26694

Ion	Ratio	Lower	Upper
63	100		
65	29.2	24.1	36.1

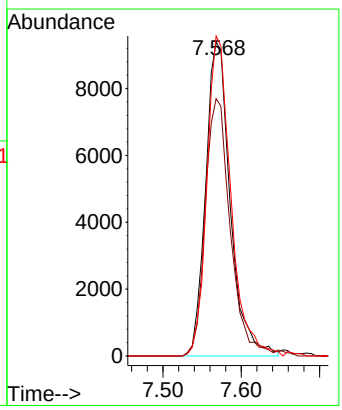


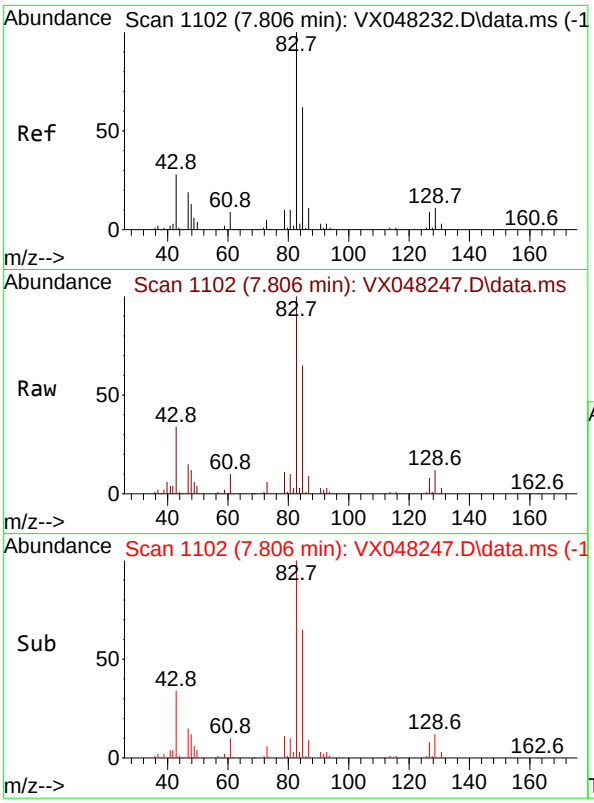


#46
Dibromomethane
Concen: 20.029 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 93 Resp: 20469

Ion	Ratio	Lower	Upper
93	100		
95	83.3	65.9	98.9
174	99.4	71.7	107.5



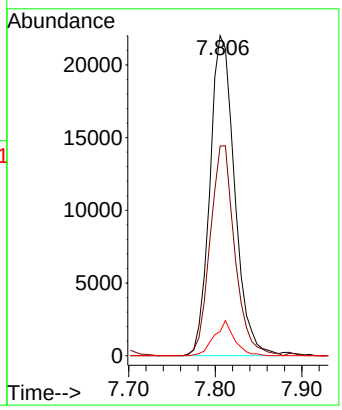


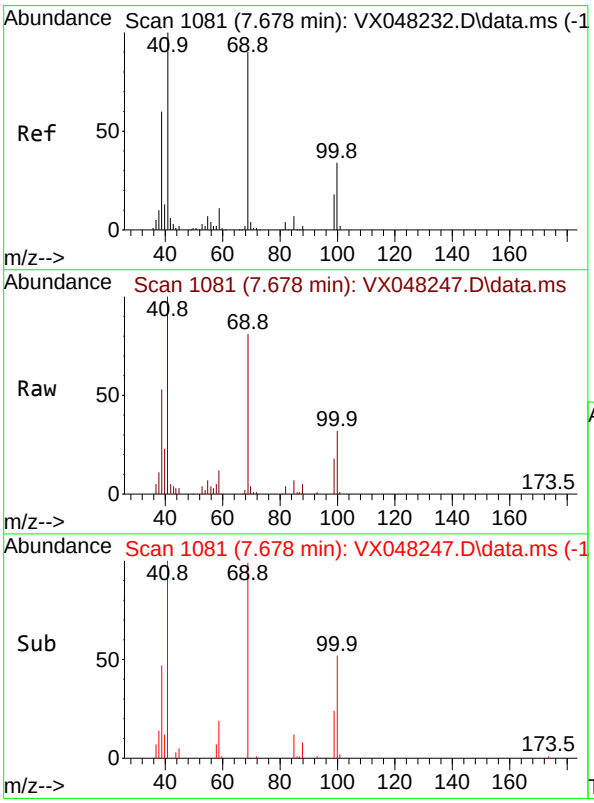
#47
Bromodichloromethane
Concen: 19.832 ug/l
RT: 7.806 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 83 Resp: 43761

Ion	Ratio	Lower	Upper
83	100		
85	65.5	52.2	78.4
127	7.5	7.3	10.9

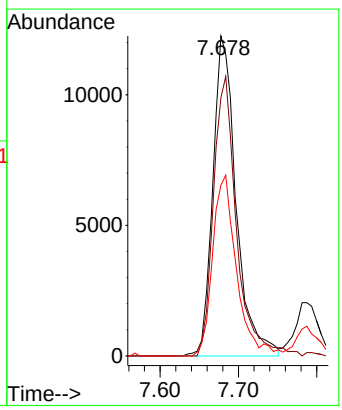


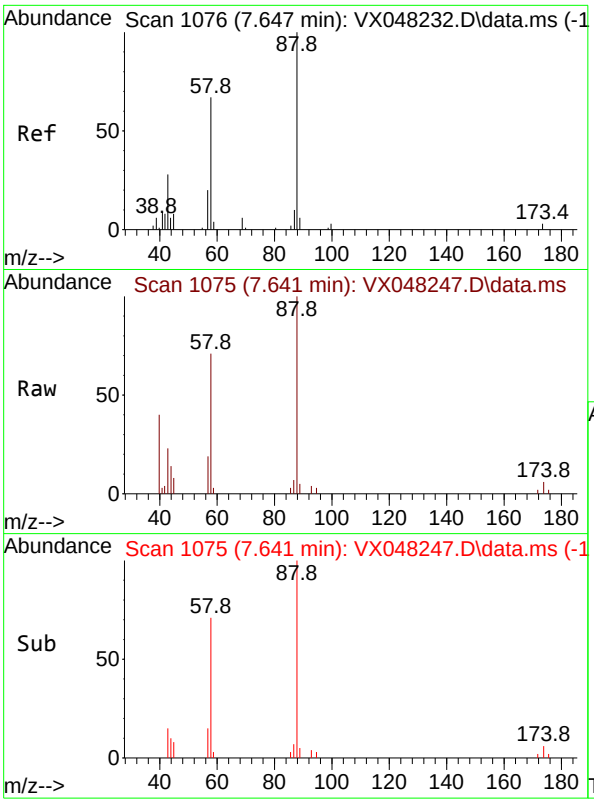


#48
Methyl methacrylate
Concen: 19.392 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 41 Resp: 25318

Ion	Ratio	Lower	Upper
41	100		
69	86.6	63.4	95.0
39	58.0	47.1	70.7



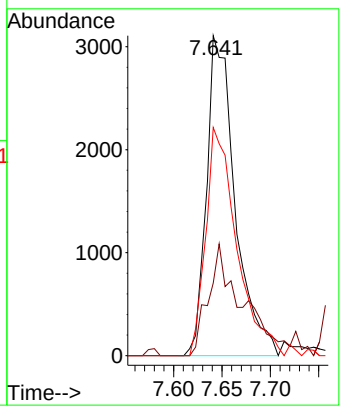


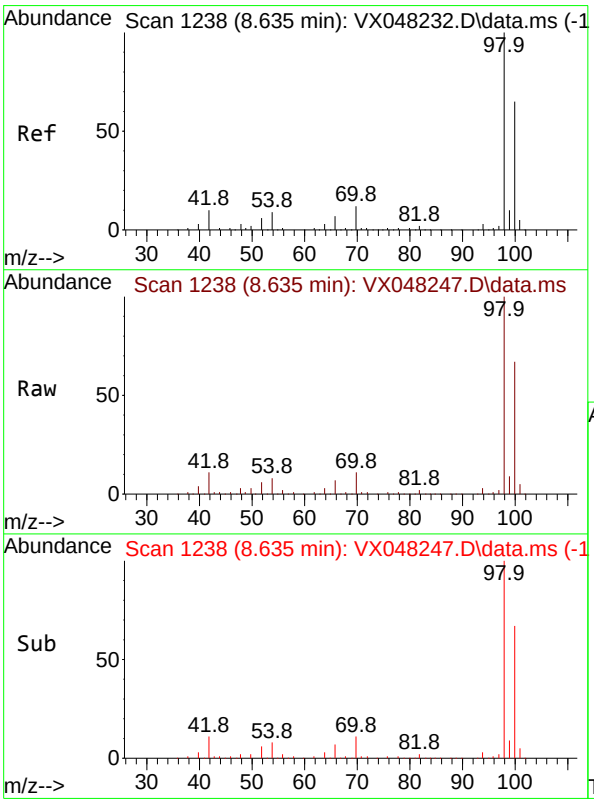
#49
1,4-Dioxane
Concen: 370.238 ug/l
RT: 7.641 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 88 Resp: 6386

Ion	Ratio	Lower	Upper
88	100		
43	41.9	35.0	52.4
58	77.2	61.9	92.9

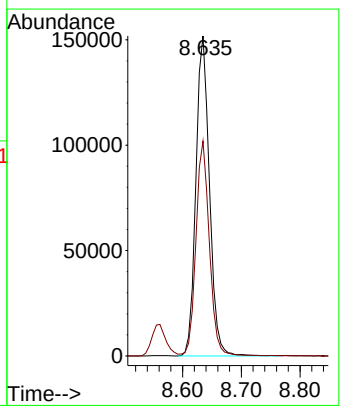


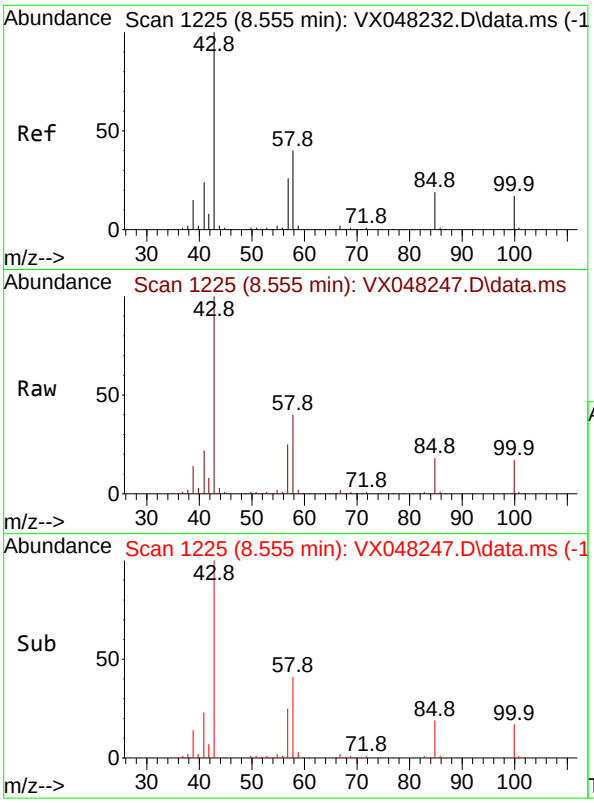


#50
Toluene-d8
Concen: 51.915 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 98 Resp: 243288

Ion	Ratio	Lower	Upper
98	100		
100	66.1	53.0	79.4



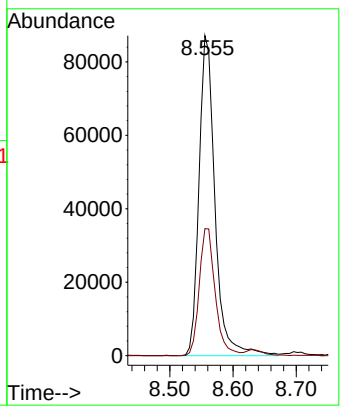


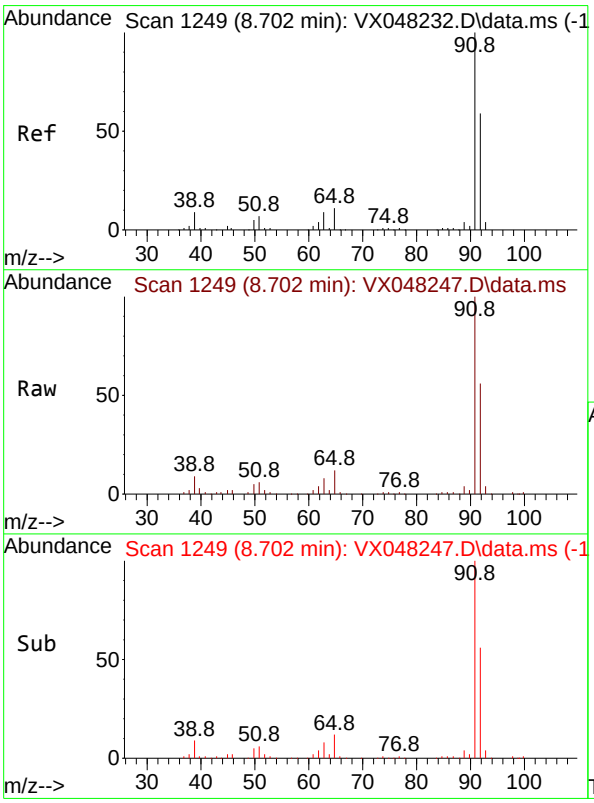
#51
4-Methyl-2-Pentanone
Concen: 102.812 ug/l
RT: 8.555 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 43 Resp: 153370

Ion	Ratio	Lower	Upper
43	100		
58	39.6	29.5	44.3

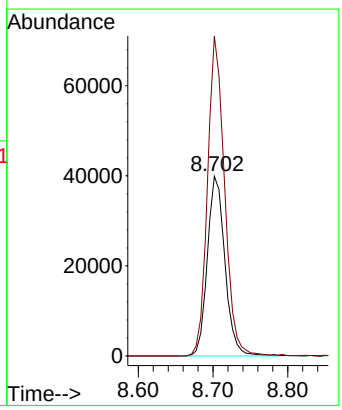


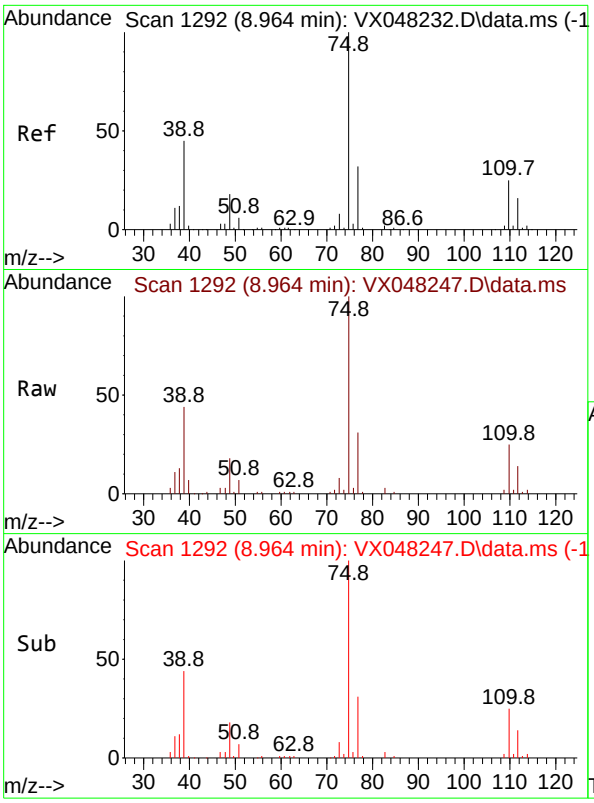


#52
Toluene
Concen: 18.650 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 92 Resp: 65370

Ion	Ratio	Lower	Upper
92	100		
91	172.3	136.1	204.1



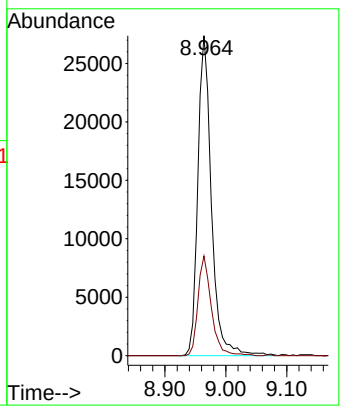


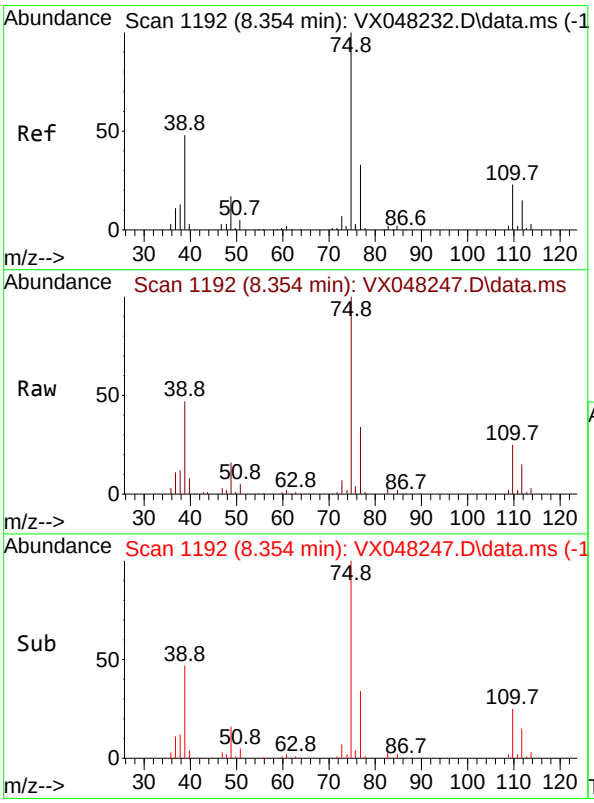
#53
t-1,3-Dichloropropene
Concen: 19.900 ug/l
RT: 8.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 75 Resp: 42315

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.0	37.6

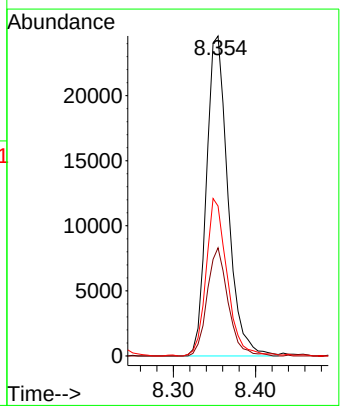


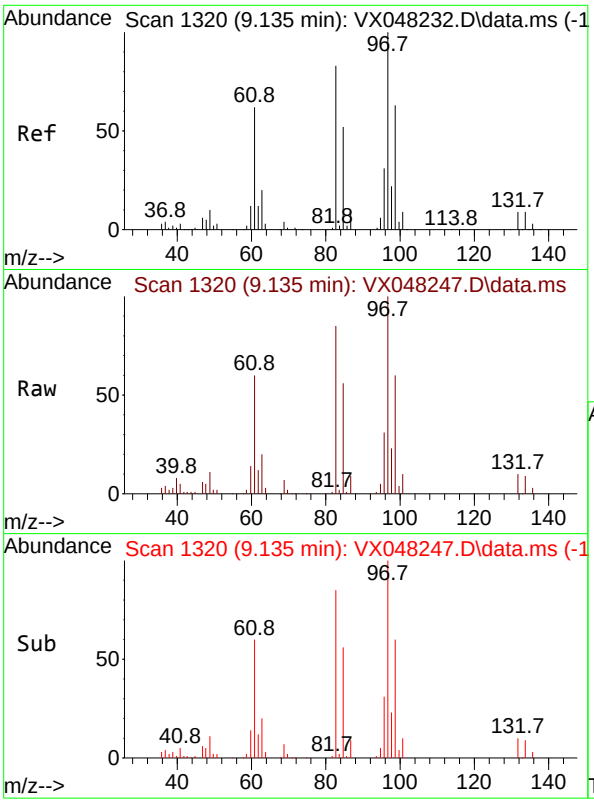


#54
cis-1,3-Dichloropropene
Concen: 19.362 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 75 Resp: 44419

Ion	Ratio	Lower	Upper
75	100		
77	33.8	24.9	37.3
39	41.6	42.6	64.0#



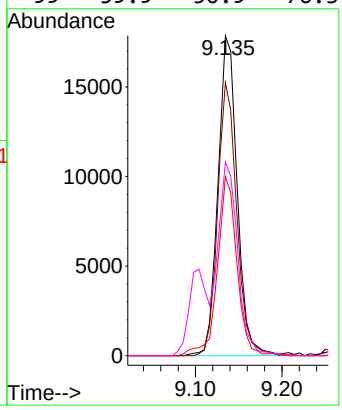


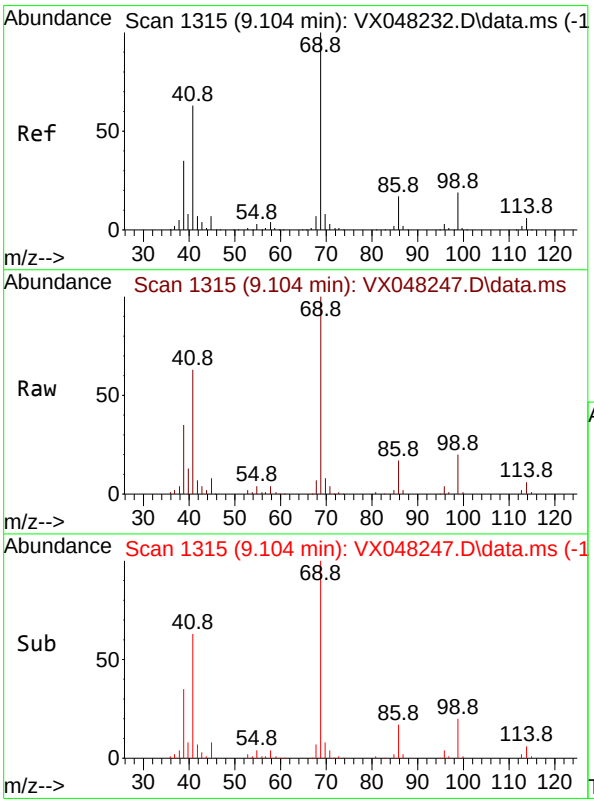
#55
1,1,2-Trichloroethane
Concen: 21.083 ug/l
RT: 9.135 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 97 Resp: 27480

Ion	Ratio	Lower	Upper
97	100		
83	87.3	70.6	105.8
85	57.3	45.0	67.6
99	59.9	50.9	76.3

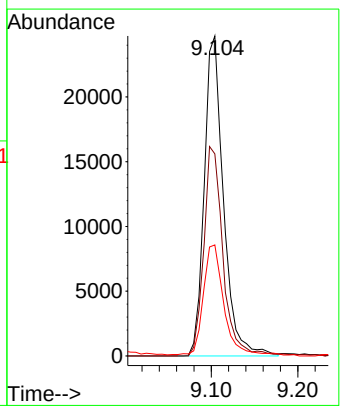


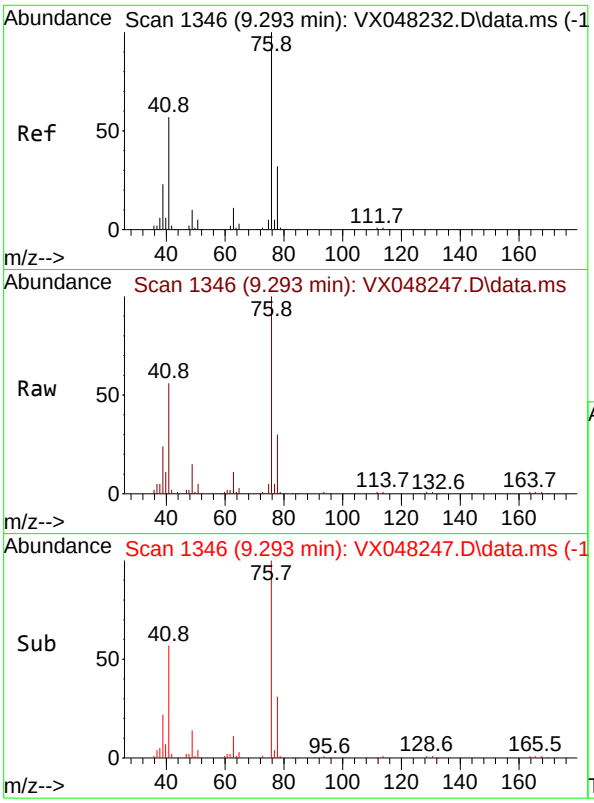


#56
Ethyl methacrylate
Concen: 19.978 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 69 Resp: 38089

Ion	Ratio	Lower	Upper
69	100		
41	65.9	56.0	84.0
39	37.8	31.6	47.4



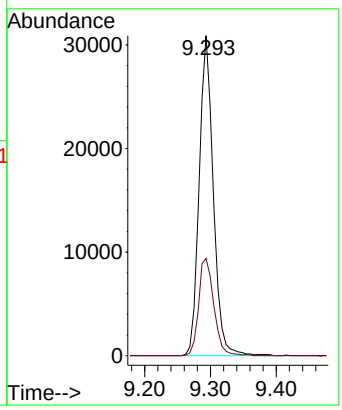


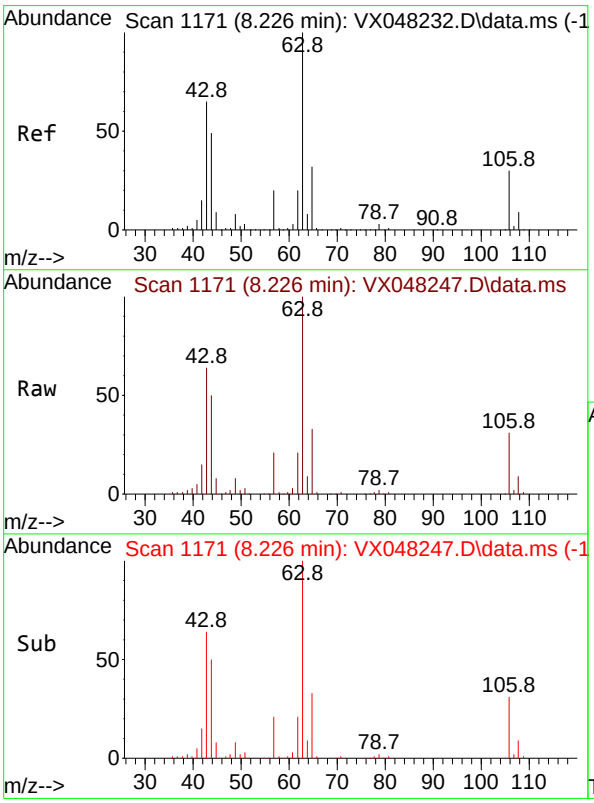
#57
1,3-Dichloropropane
Concen: 20.726 ug/l
RT: 9.293 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 76 Resp: 46146

Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.4	38.0

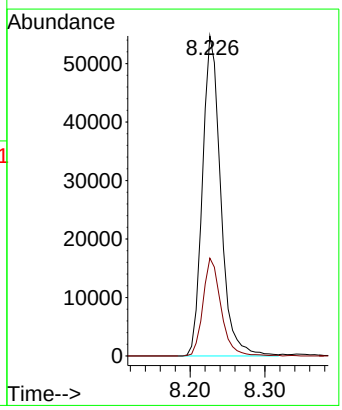


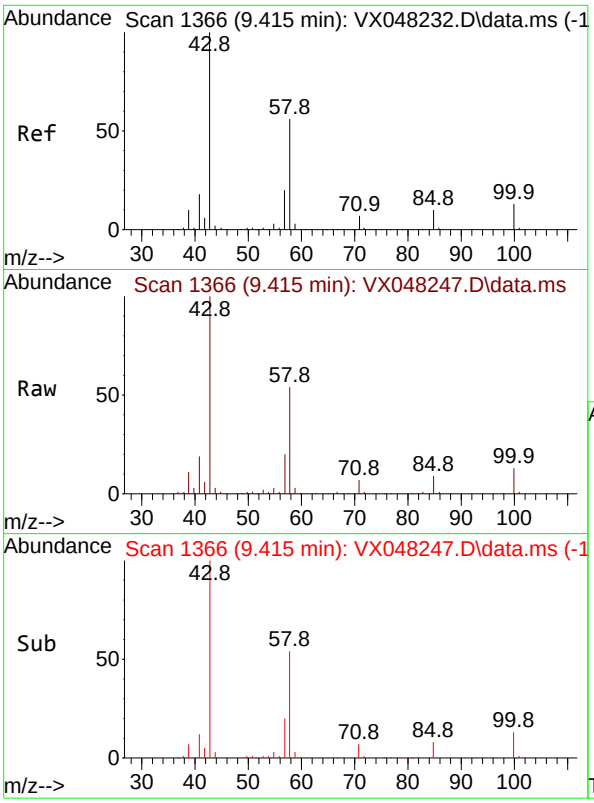


#58
2-Chloroethyl Vinyl ether
Concen: 91.719 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 63 Resp: 92914

Ion	Ratio	Lower	Upper
63	100		
106	30.1	22.2	33.2



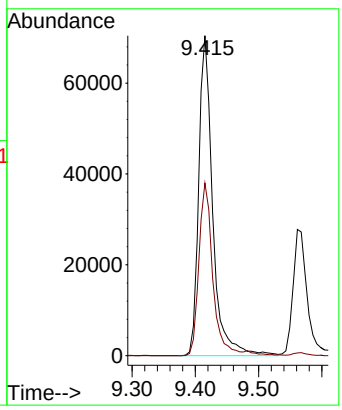


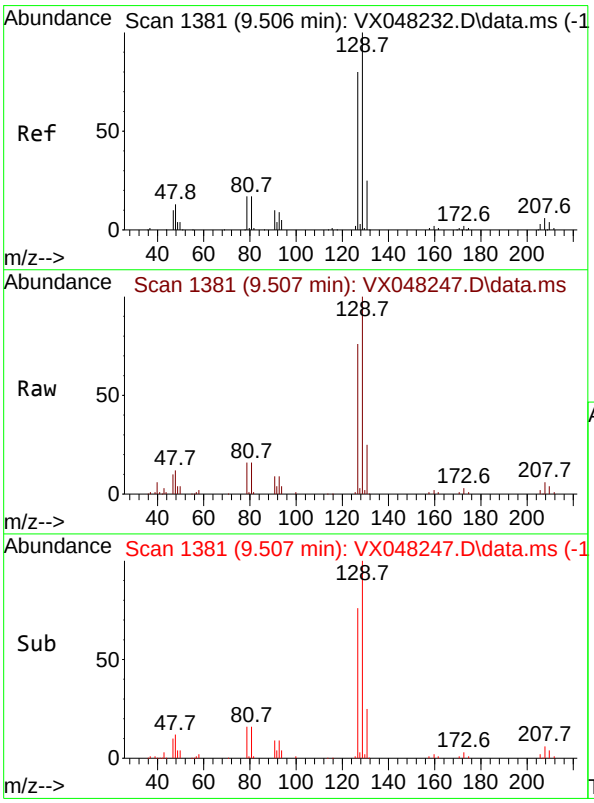
#59
2-Hexanone
Concen: 104.075 ug/l
RT: 9.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 43 Resp: 108257

Ion	Ratio	Lower	Upper
43	100		
58	54.9	26.3	78.8

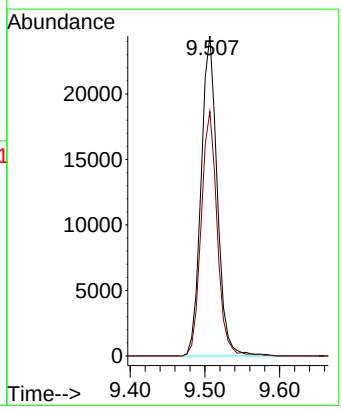


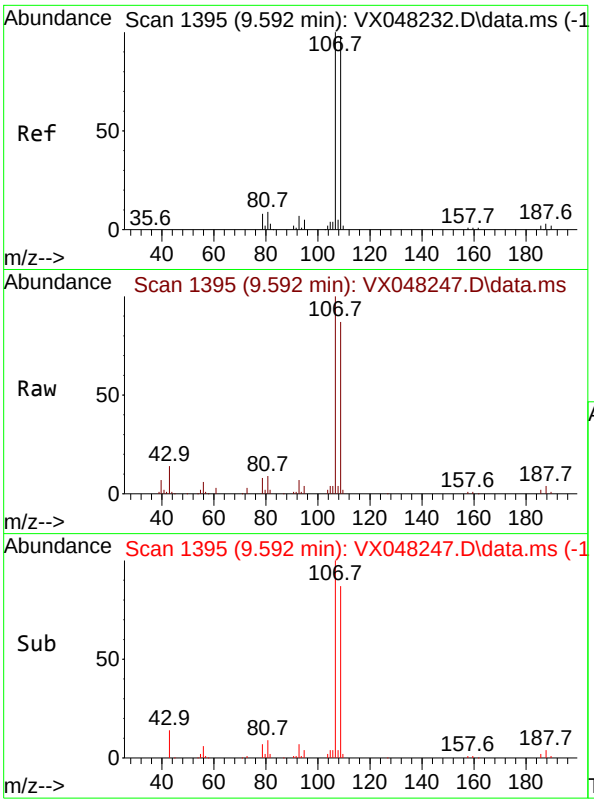


#60
Dibromochloromethane
Concen: 20.894 ug/l
RT: 9.507 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:129 Resp: 36604

Ion	Ratio	Lower	Upper
129	100		
127	75.8	38.6	115.7



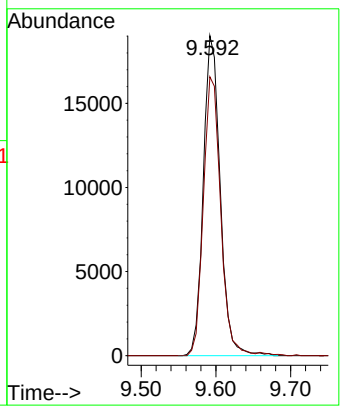


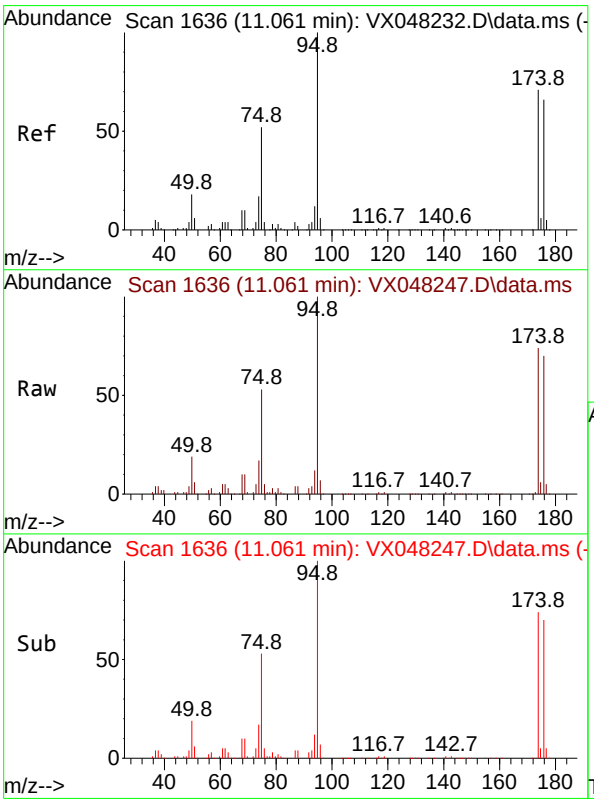
#61
1,2-Dibromoethane
Concen: 21.420 ug/l
RT: 9.592 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion:107 Resp: 29765

Ion	Ratio	Lower	Upper
107	100		
109	89.3	77.0	115.4

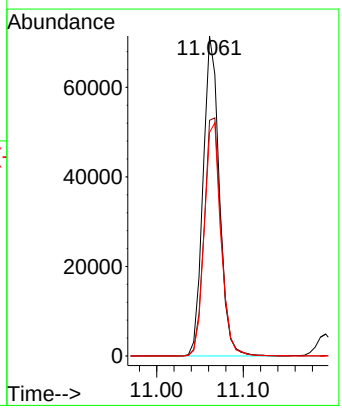


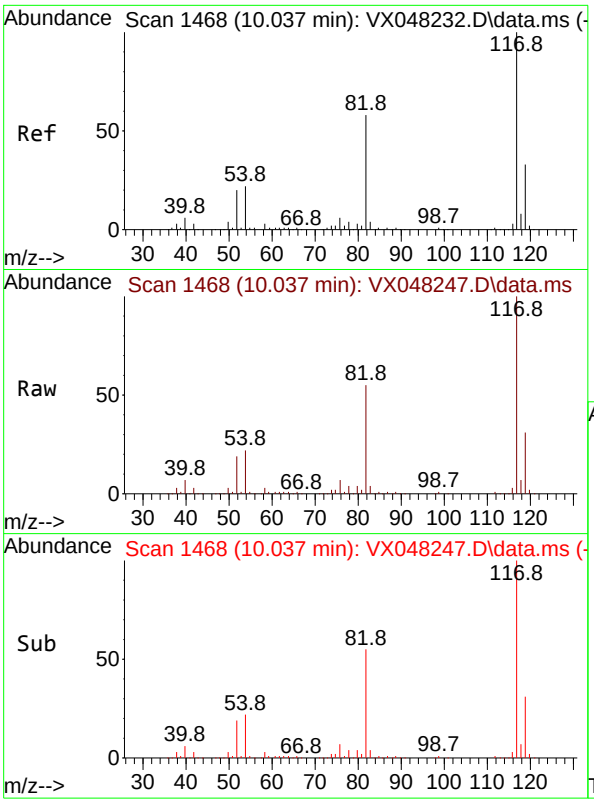


#62
4-Bromofluorobenzene
Concen: 52.139 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 95 Resp: 92954

Ion	Ratio	Lower	Upper
95	100		
174	78.2	0.0	147.8
176	74.5	0.0	142.8



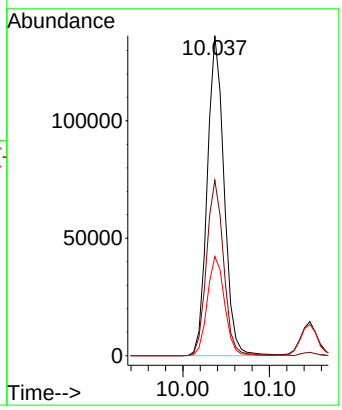


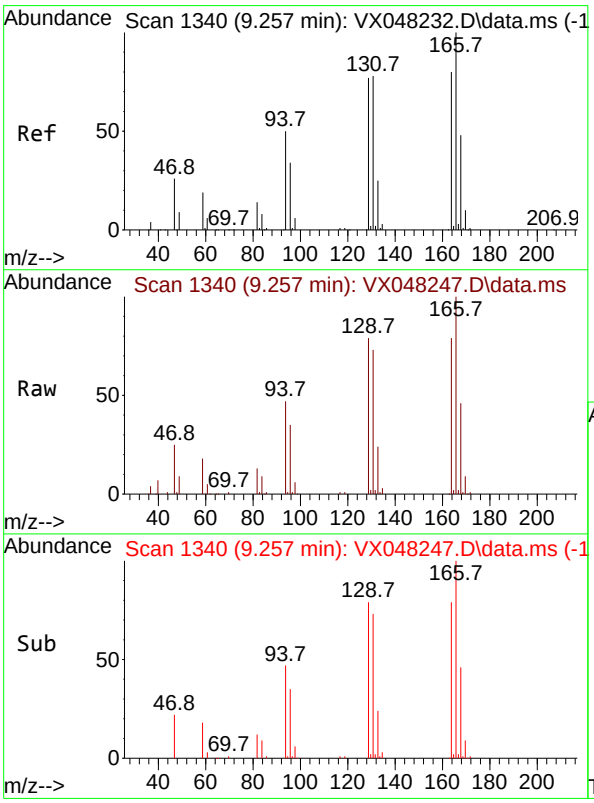
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion:117 Resp: 183563

Ion	Ratio	Lower	Upper
117	100		
82	54.9	46.5	69.7
119	31.0	25.9	38.9

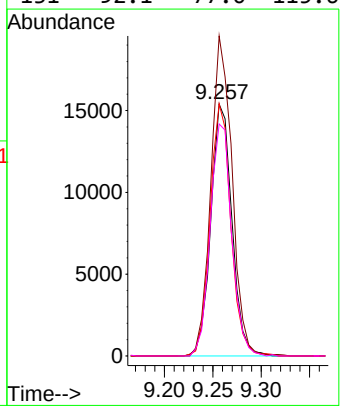


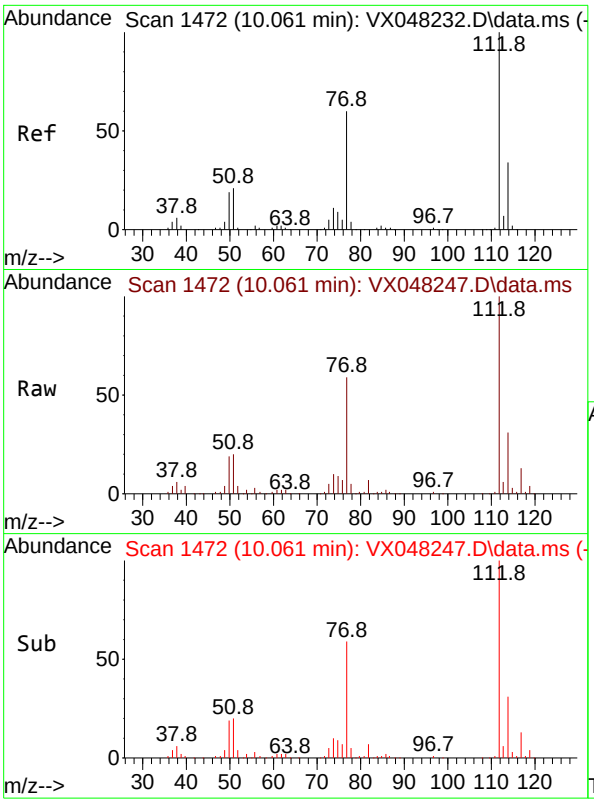


#64
Tetrachloroethene
Concen: 17.018 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:164 Resp: 23320

Ion	Ratio	Lower	Upper
164	100		
166	127.0	104.5	156.7
129	100.1	81.8	122.6
131	92.1	77.0	115.6



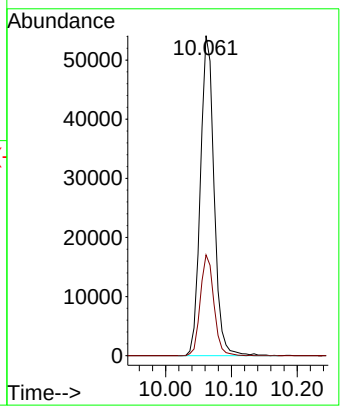


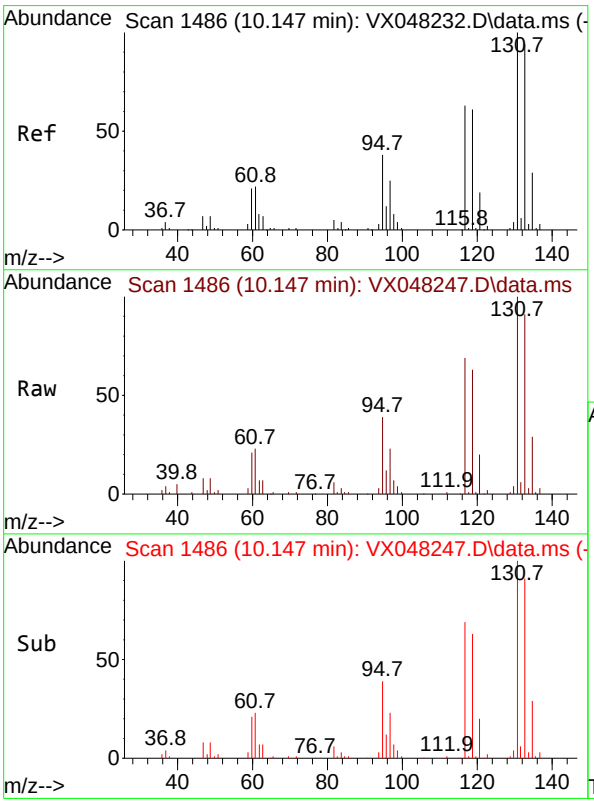
#65
Chlorobenzene
Concen: 18.971 ug/l
RT: 10.061 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion:112 Resp: 78337

Ion	Ratio	Lower	Upper
112	100		
114	31.5	26.2	39.2

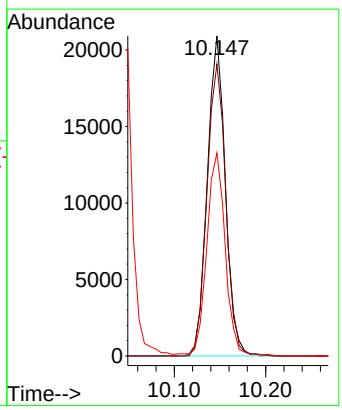


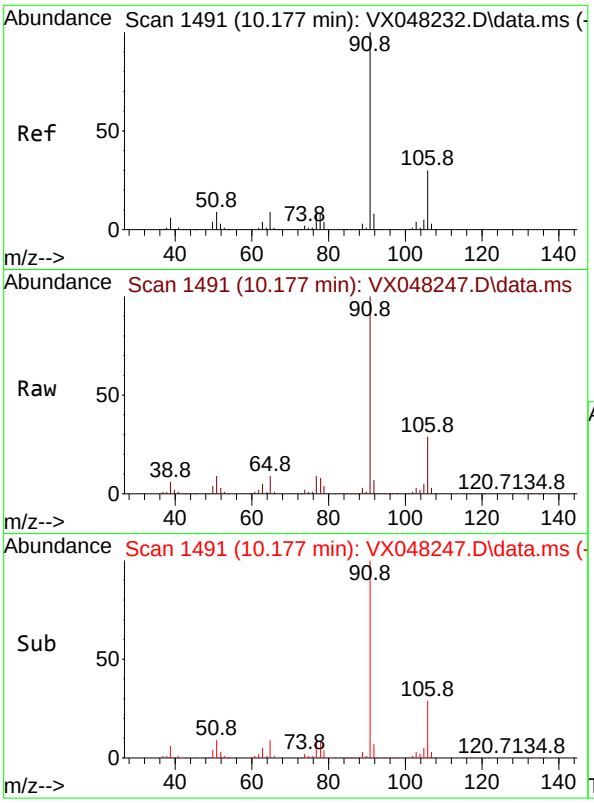


#66
1,1,1,2-Tetrachloroethane
Concen: 18.889 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:131 Resp: 28648

Ion	Ratio	Lower	Upper
131	100		
133	95.2	47.6	142.8
119	64.9	32.5	97.5



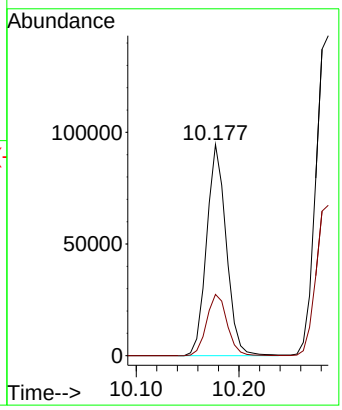


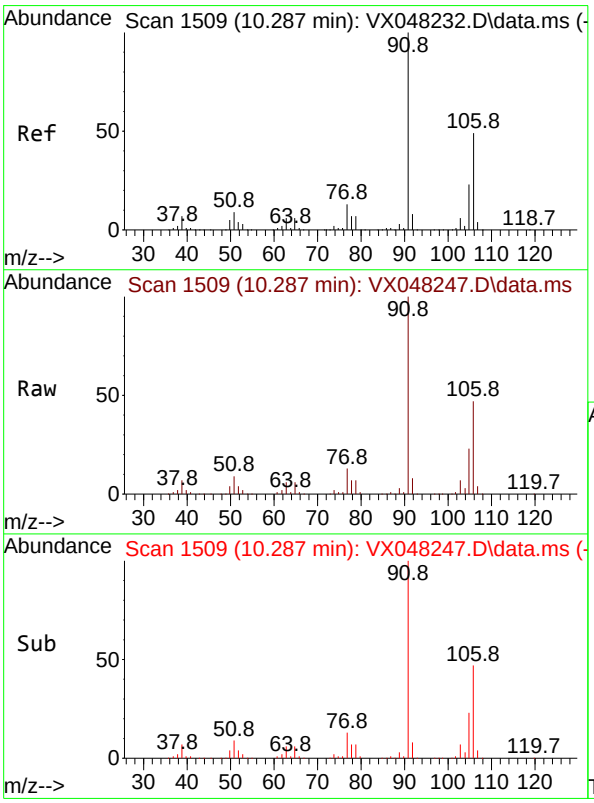
#67
Ethyl Benzene
Concen: 17.821 ug/l
RT: 10.177 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 91 Resp: 125292

Ion	Ratio	Lower	Upper
91	100		
106	29.0	23.8	35.6

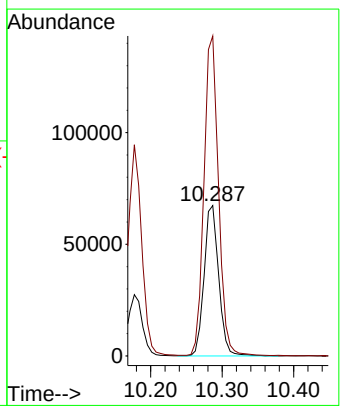


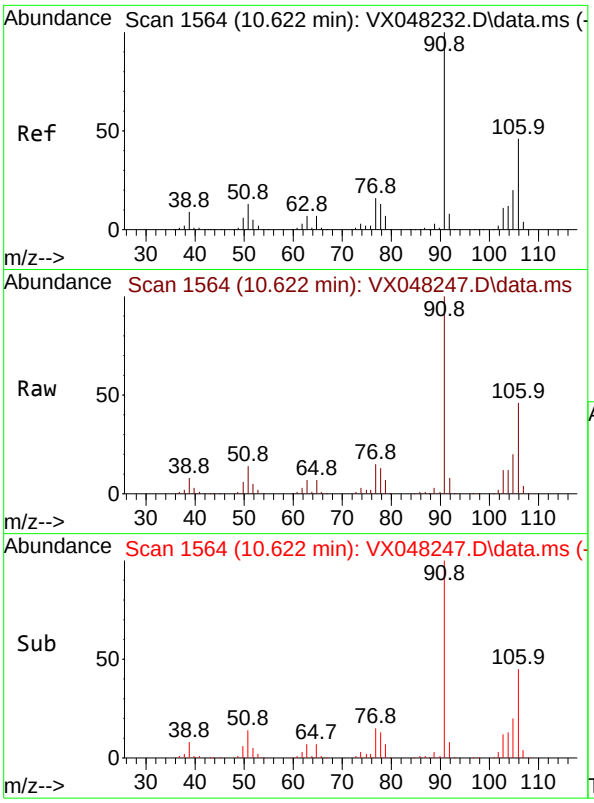


#68
m/p-Xylenes
Concen: 36.604 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:106 Resp: 95614

Ion	Ratio	Lower	Upper
106	100		
91	211.2	167.9	251.9



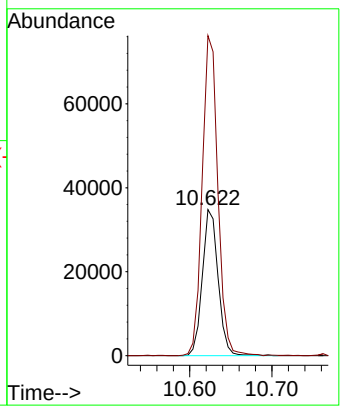


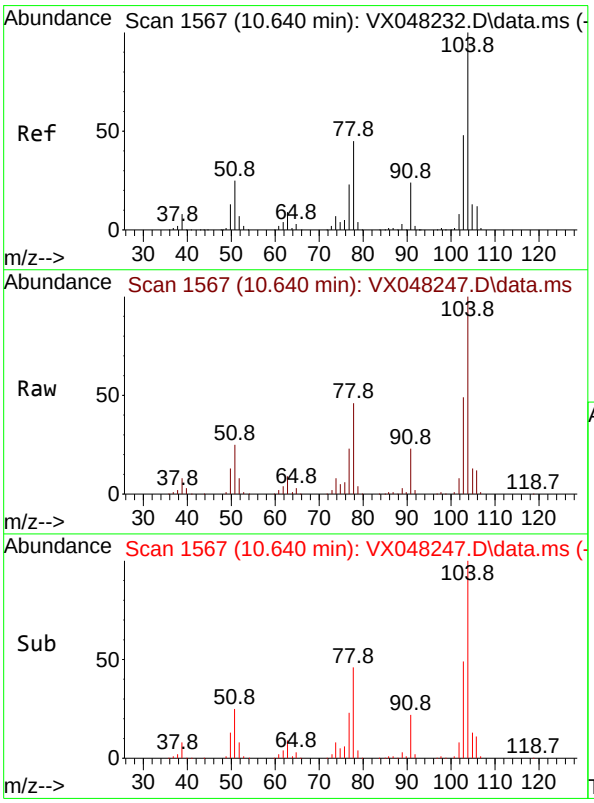
#69
o-Xylene
Concen: 18.374 ug/l
RT: 10.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion:106 Resp: 46336

Ion	Ratio	Lower	Upper
106	100		
91	217.8	111.3	333.9

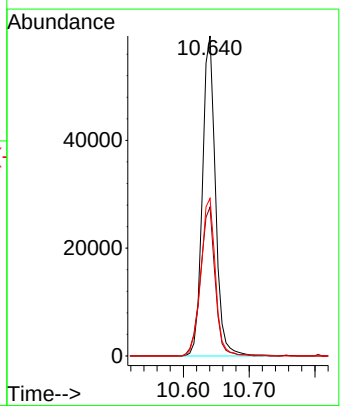


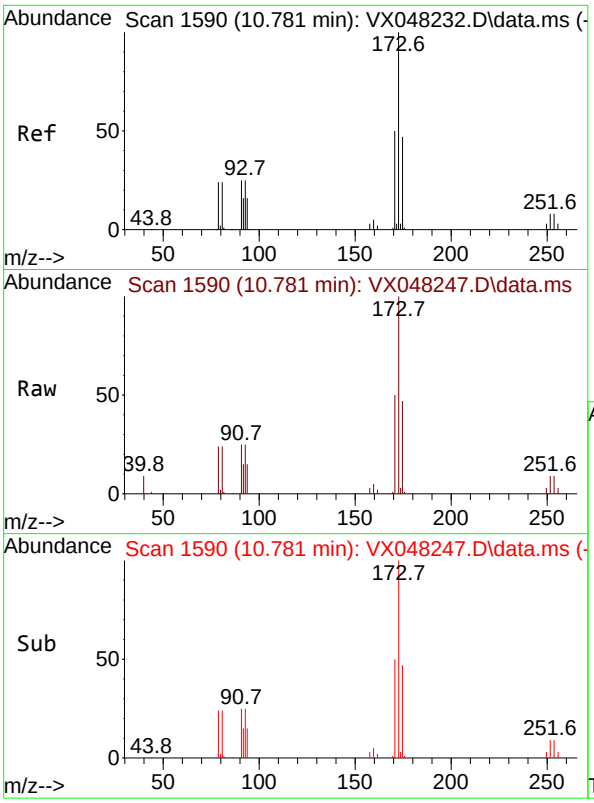


#70
Styrene
Concen: 19.141 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:104 Resp: 82194

Ion	Ratio	Lower	Upper
104	100		
78	52.1	42.2	63.4
103	54.6	43.0	64.4



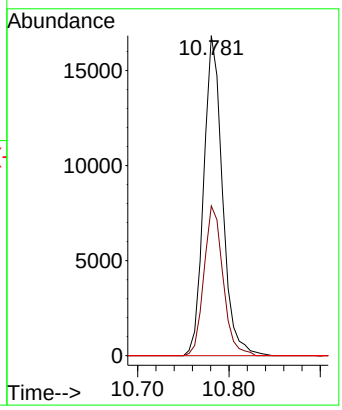


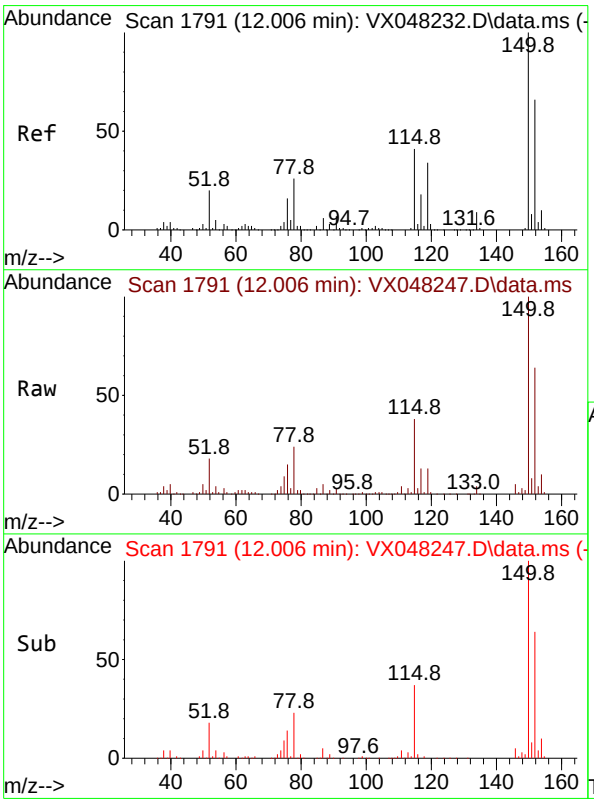
#71
Bromoform
Concen: 19.710 ug/l
RT: 10.781 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion:173 Resp: 23892

Ion	Ratio	Lower	Upper
173	100		
175	47.6	24.0	72.0
254	0.0	0.0	0.0

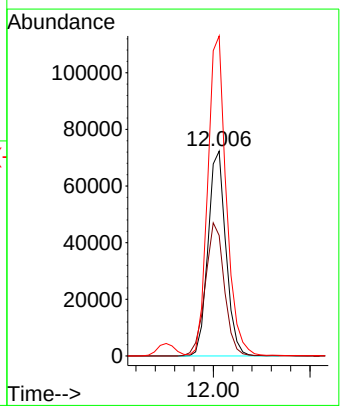


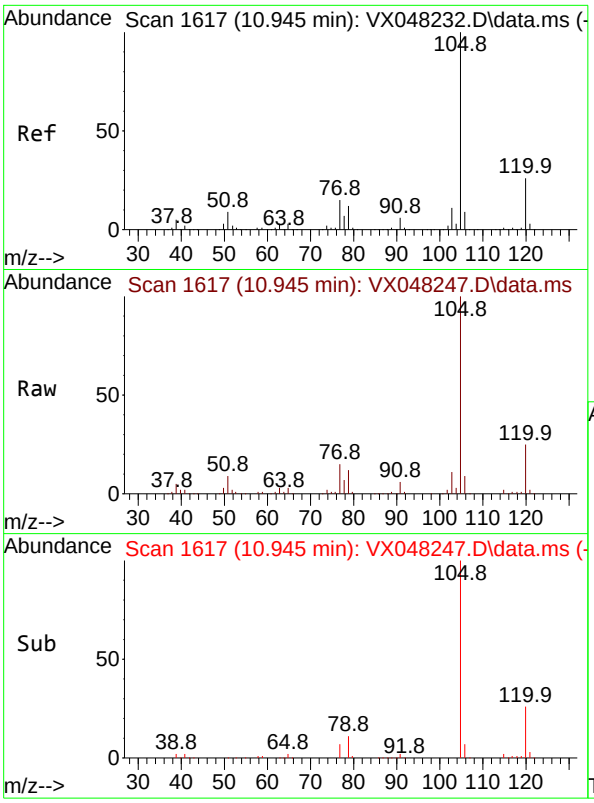


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:152 Resp: 92655

Ion	Ratio	Lower	Upper
152	100		
115	69.3	43.1	129.4
150	161.7	0.0	353.0



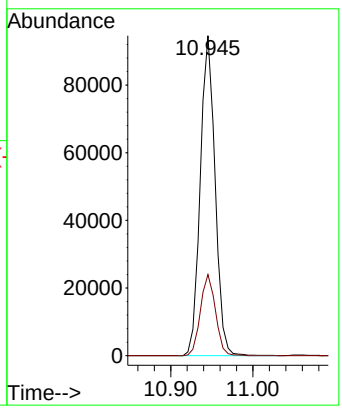


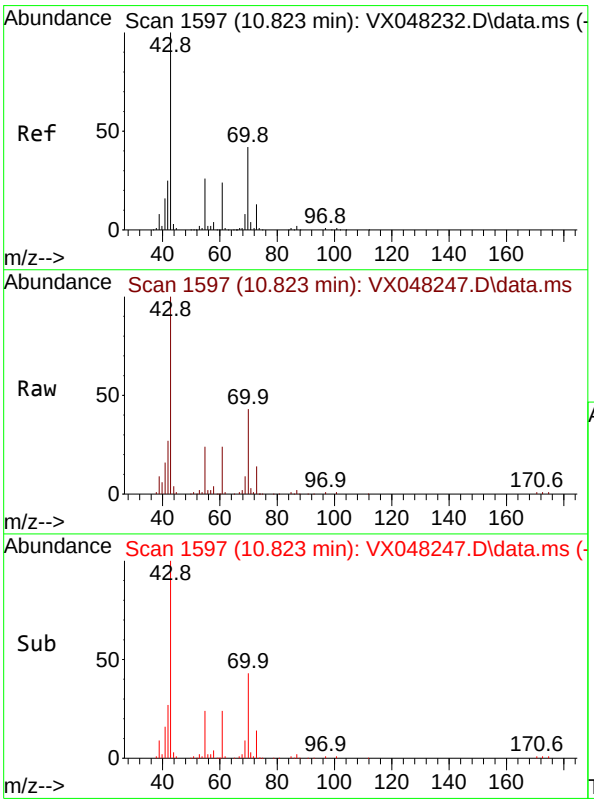
#73
Isopropylbenzene
Concen: 17.504 ug/l
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion:105 Resp: 118461

Ion	Ratio	Lower	Upper
105	100		
120	25.6	13.0	38.9

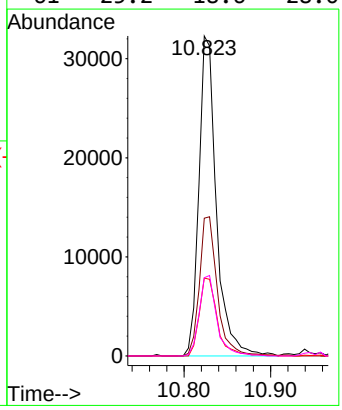


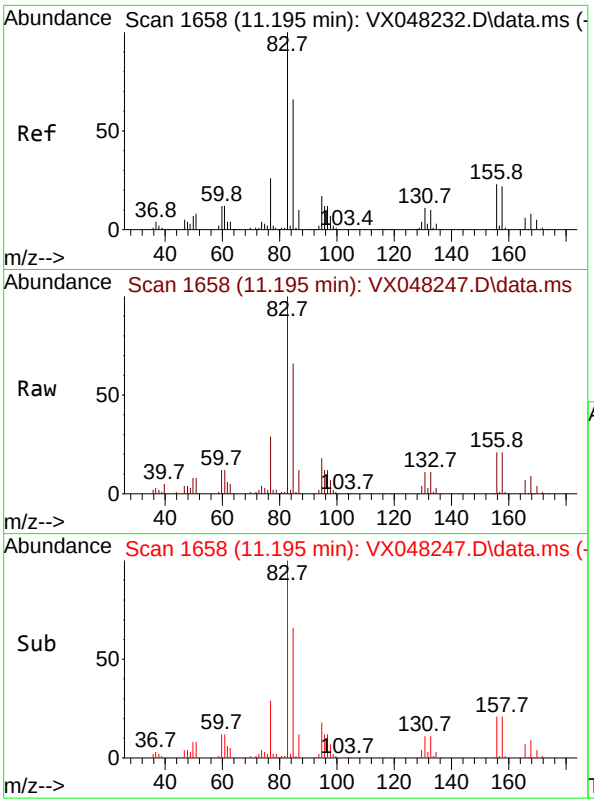


#74
N-amyl acetate
Concen: 18.864 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 43 Resp: 45284

Ion	Ratio	Lower	Upper
43	100		
70	44.8	32.2	48.2
55	25.1	19.1	28.7
61	25.2	18.6	28.0



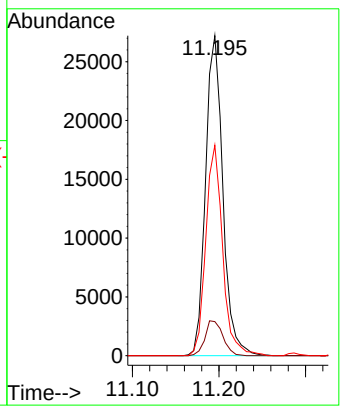


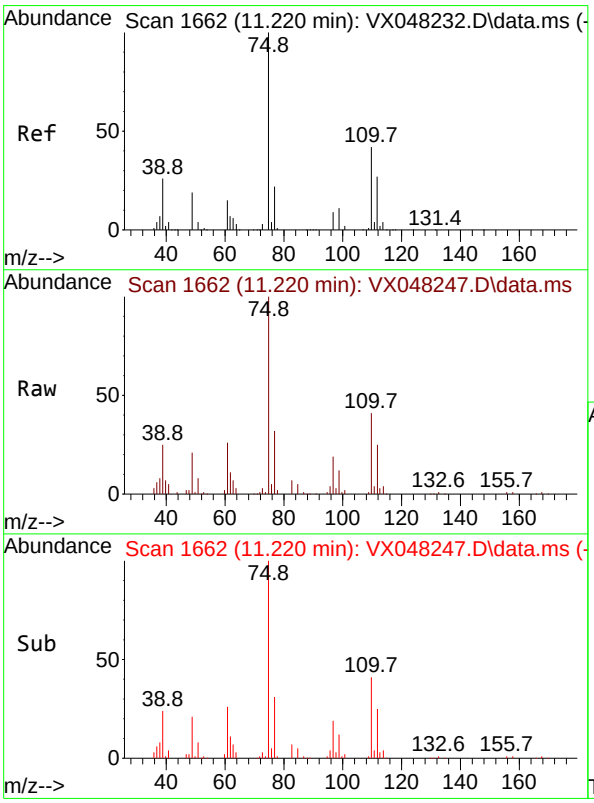
#75
1,1,2,2-Tetrachloroethane
Concen: 20.412 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 83 Resp: 37724

Ion	Ratio	Lower	Upper
83	100		
131	11.3	4.8	14.4
85	64.3	31.9	95.7

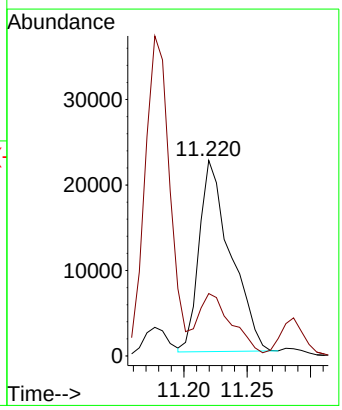


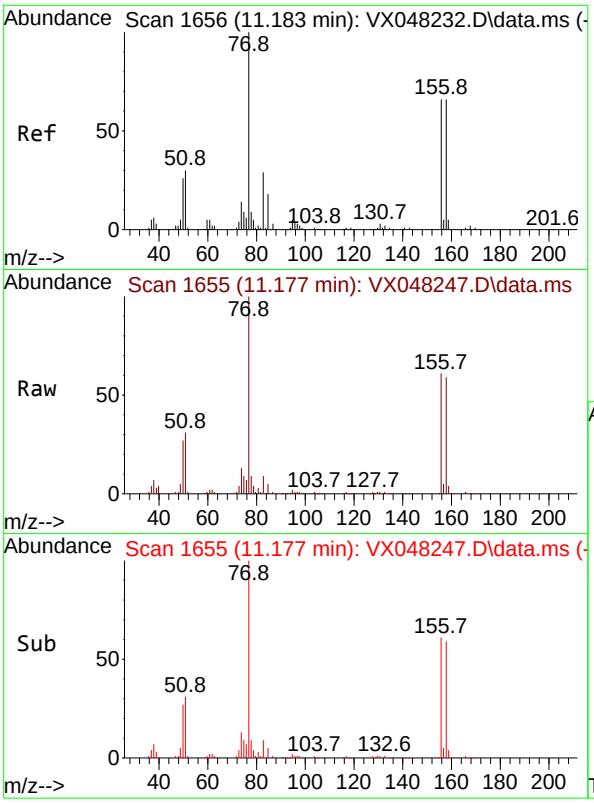


#76
1,2,3-Trichloropropane
Concen: 25.841 ug/l
RT: 11.220 min Scan# 1662
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 75 Resp: 38827

Ion	Ratio	Lower	Upper
75	100		
77	32.9	22.4	67.2



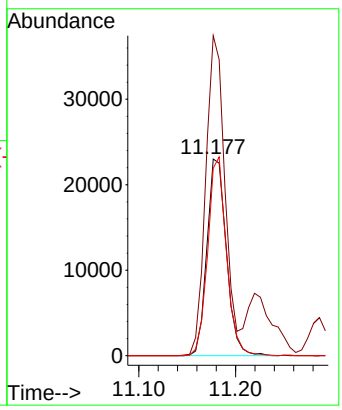


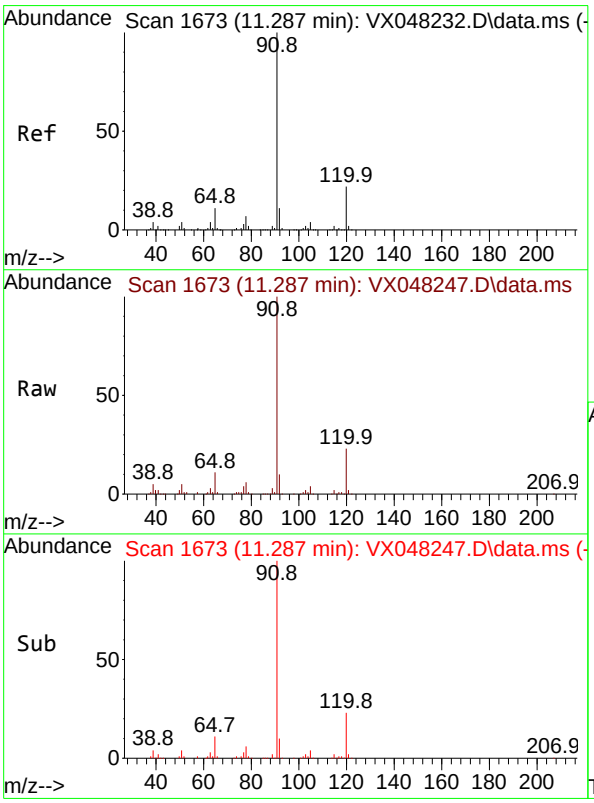
#77
Bromobenzene
Concen: 18.952 ug/l
RT: 11.177 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion:156 Resp: 32159

Ion	Ratio	Lower	Upper
156	100		
77	159.3	87.0	261.0
158	97.4	47.8	143.4

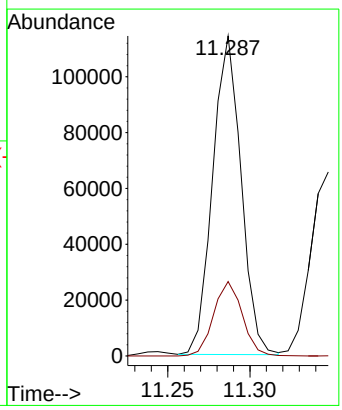


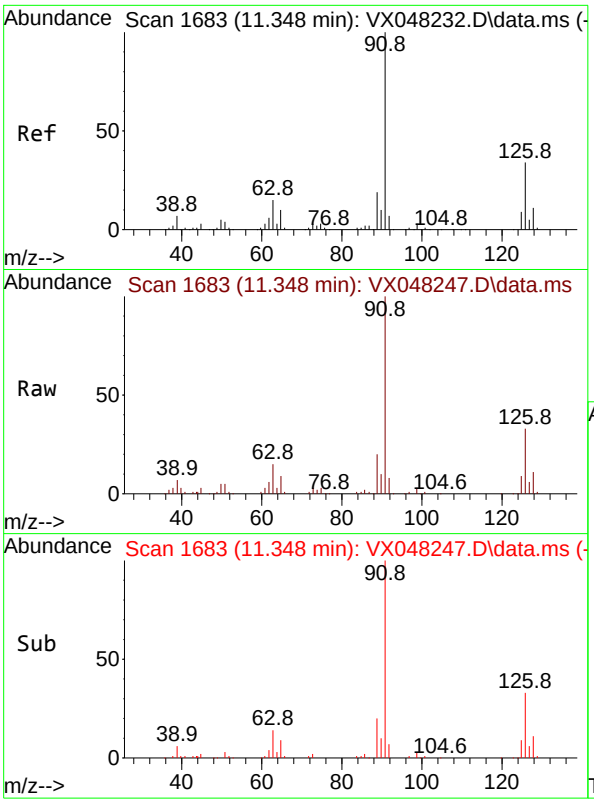


#78
n-propylbenzene
Concen: 17.482 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 91 Resp: 136981

Ion	Ratio	Lower	Upper
91	100		
120	23.6	11.1	33.1



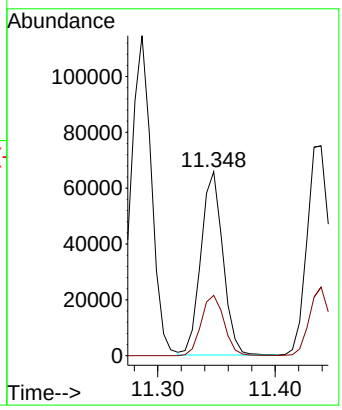


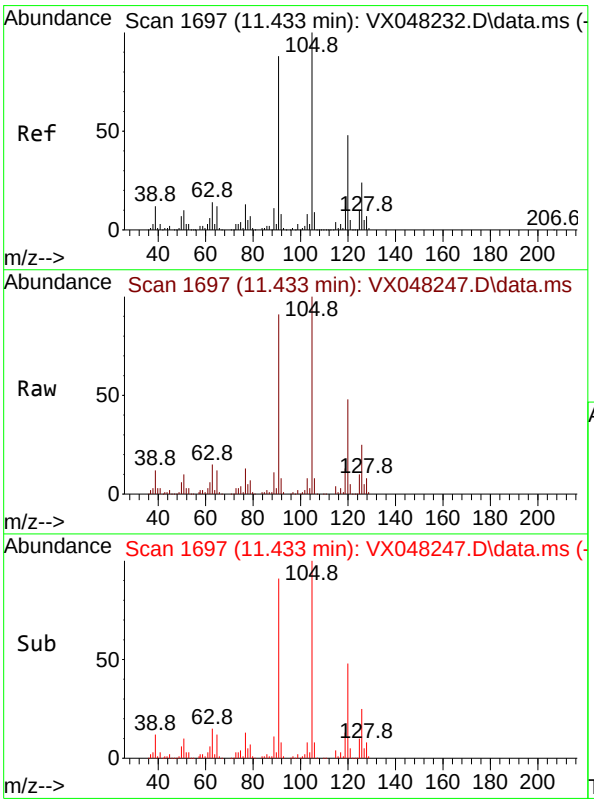
#79
2-Chlorotoluene
Concen: 18.016 ug/l
RT: 11.348 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 91 Resp: 85588

Ion	Ratio	Lower	Upper
91	100		
126	34.2	16.4	49.4

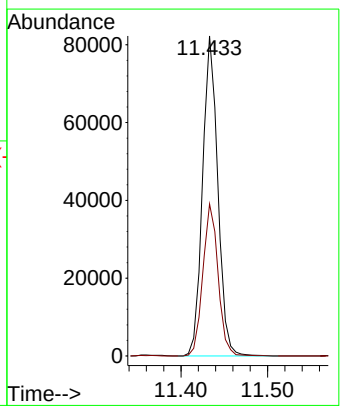


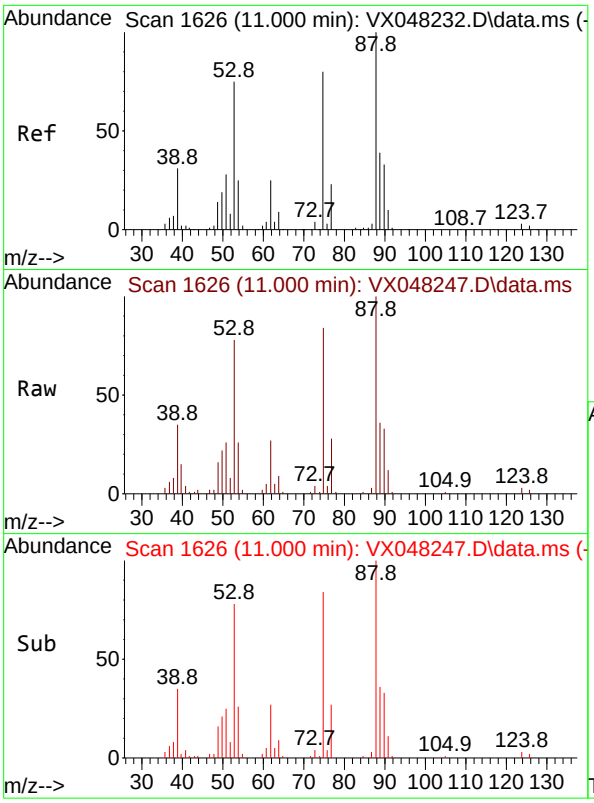


#80
1,3,5-Trimethylbenzene
Concen: 17.922 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:105 Resp: 100372

Ion	Ratio	Lower	Upper
105	100		
120	47.5	24.0	72.0



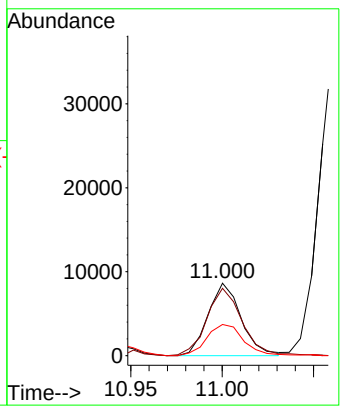


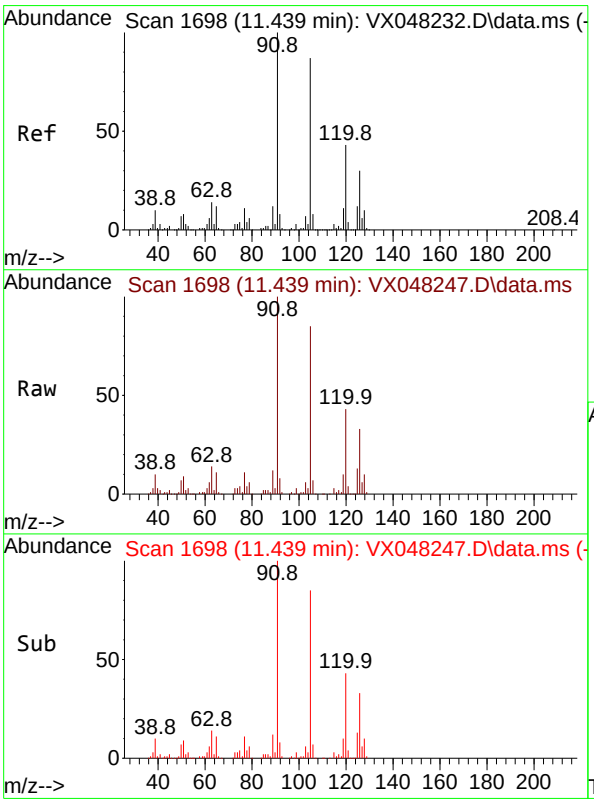
#81
trans-1,4-Dichloro-2-butene
Concen: 17.654 ug/l
RT: 11.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 75 Resp: 10903

Ion	Ratio	Lower	Upper
75	100		
53	99.2	79.5	119.3
89	48.2	36.8	55.2

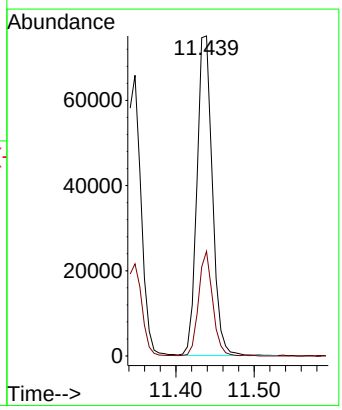


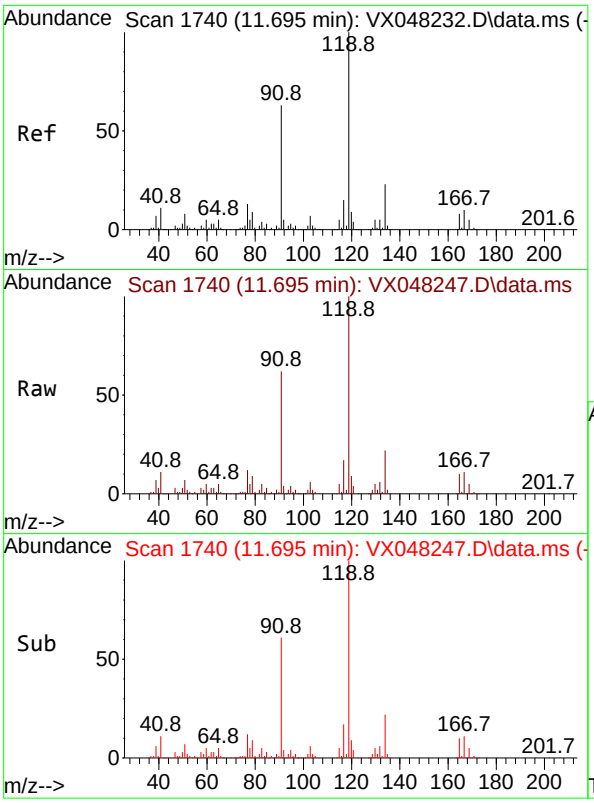


#82
4-Chlorotoluene
Concen: 18.204 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 91 Resp: 102658

Ion	Ratio	Lower	Upper
91	100		
126	29.7	14.1	42.4



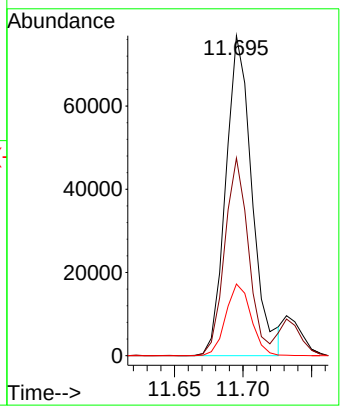


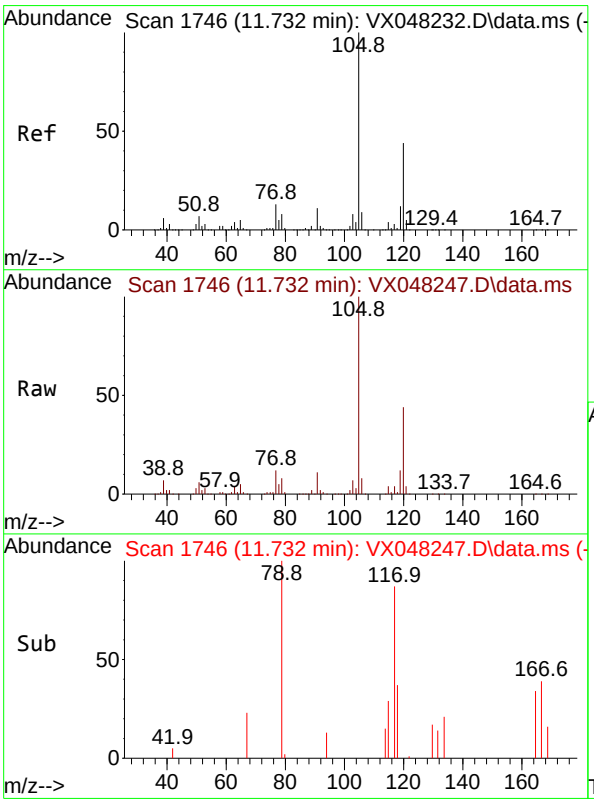
#83
tert-Butylbenzene
Concen: 17.807 ug/l
RT: 11.695 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion:119 Resp: 102465

Ion	Ratio	Lower	Upper
119	100		
91	56.3	30.3	91.0
134	21.6	11.4	34.2

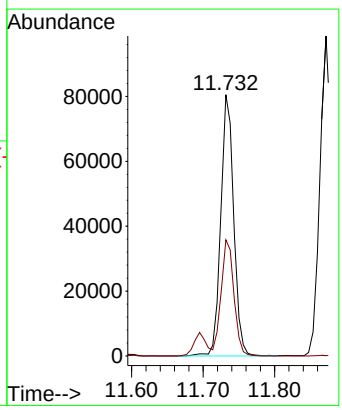


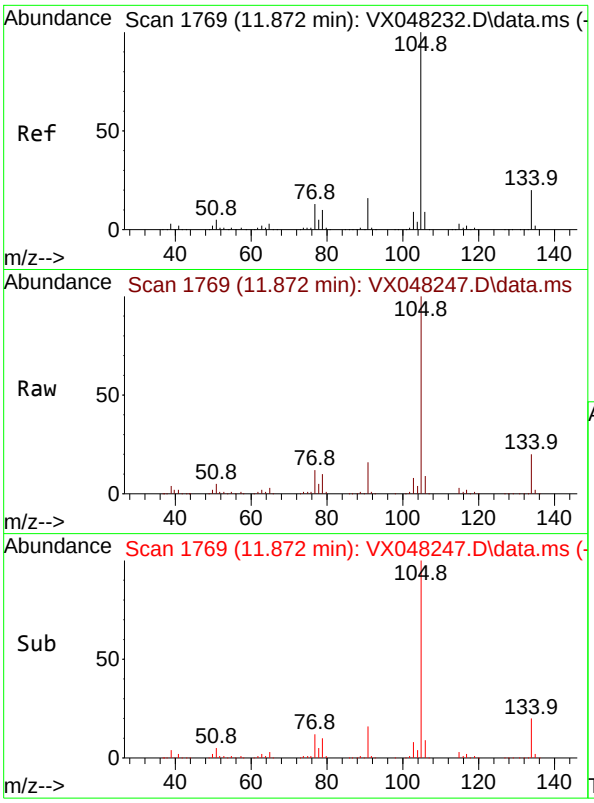


#84
1,2,4-Trimethylbenzene
Concen: 18.149 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:105 Resp: 101437

Ion	Ratio	Lower	Upper
105	100		
120	43.9	22.1	66.5



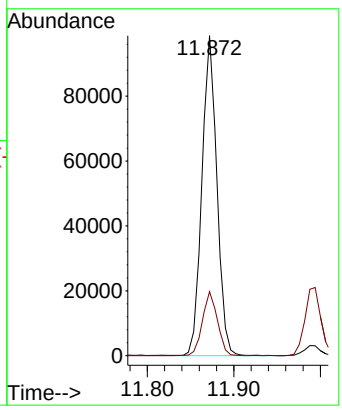


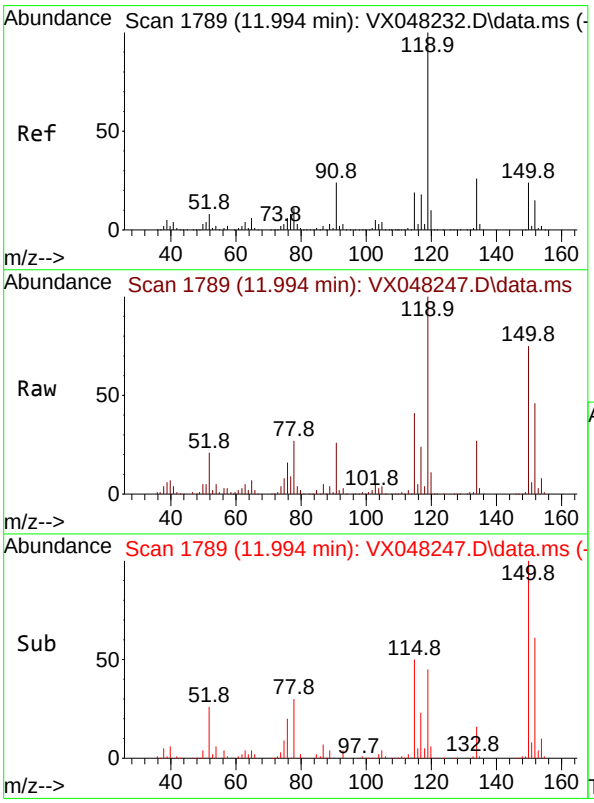
#85
sec-Butylbenzene
Concen: 17.126 ug/l
RT: 11.872 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion:105 Resp: 118566

Ion	Ratio	Lower	Upper
105	100		
134	20.0	10.1	30.1

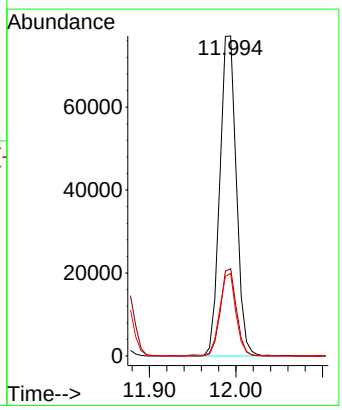


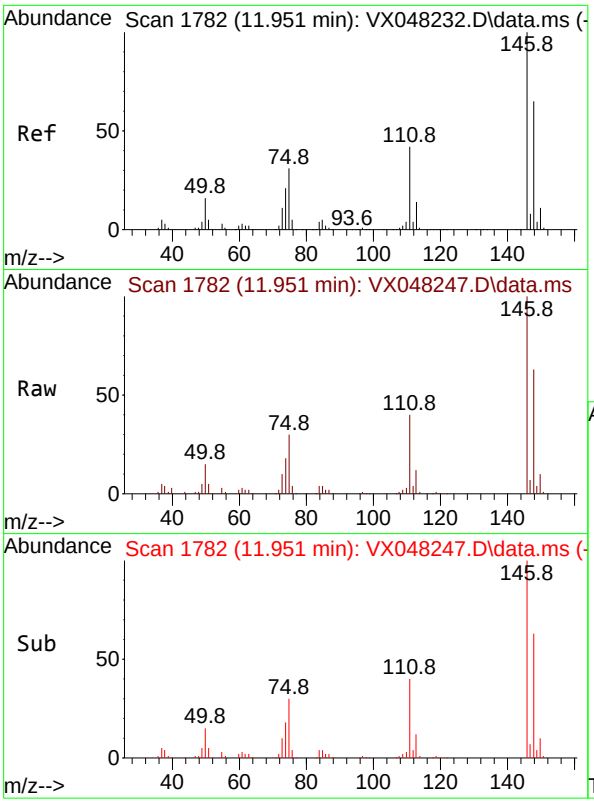


#86
p-Isopropyltoluene
Concen: 17.091 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:119 Resp: 102269

Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.0	39.0
91	25.4	12.1	36.3



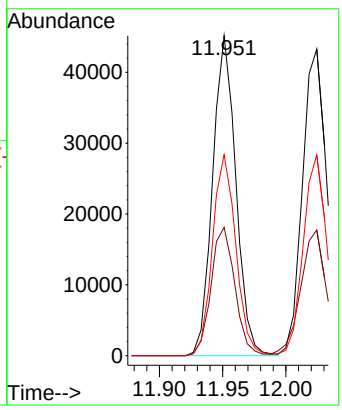


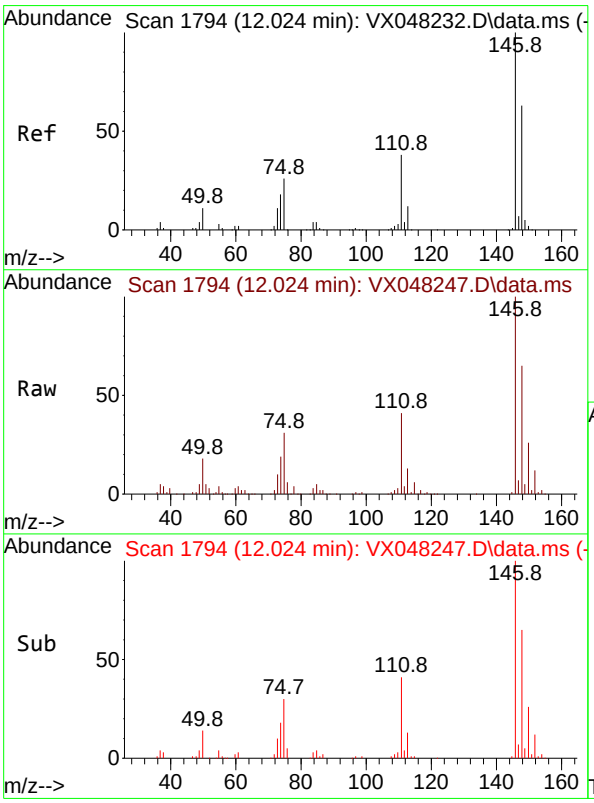
#87
1,3-Dichlorobenzene
Concen: 18.001 ug/l
RT: 11.951 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion:146 Resp: 57585

Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.4	61.2
148	63.2	31.9	95.9

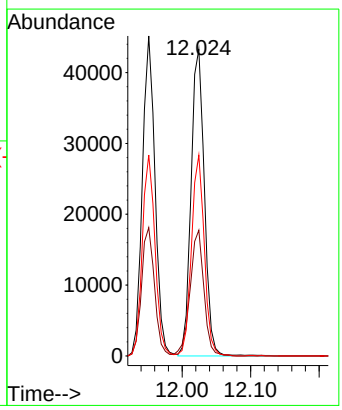


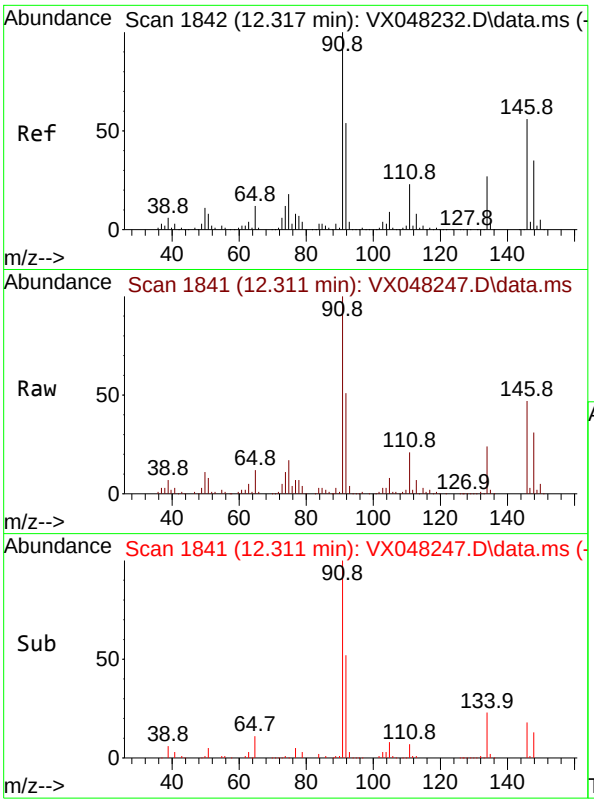


#88
1,4-Dichlorobenzene
Concen: 17.690 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:146 Resp: 58623

Ion	Ratio	Lower	Upper
146	100		
111	42.5	20.1	60.2
148	63.1	31.8	95.3



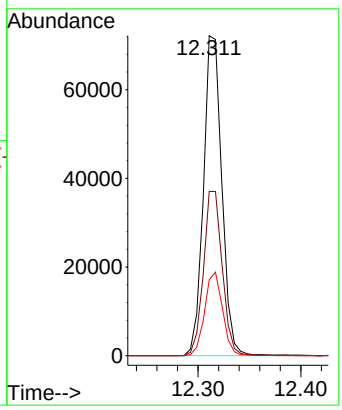


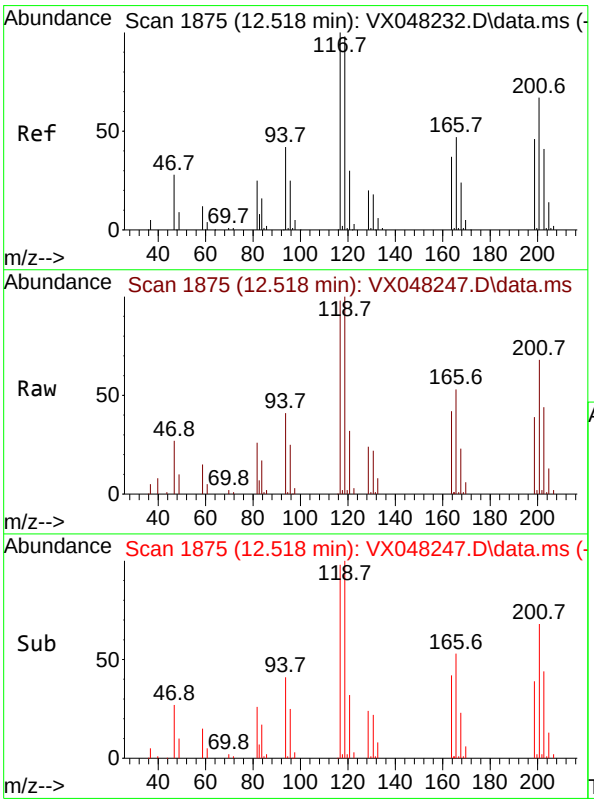
#89
n-Butylbenzene
Concen: 16.501 ug/l
RT: 12.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion: 91 Resp: 89874

Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.9	80.6
134	25.5	12.7	38.1

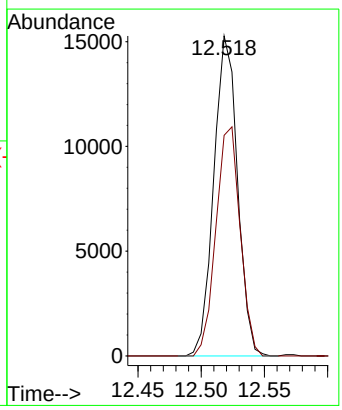


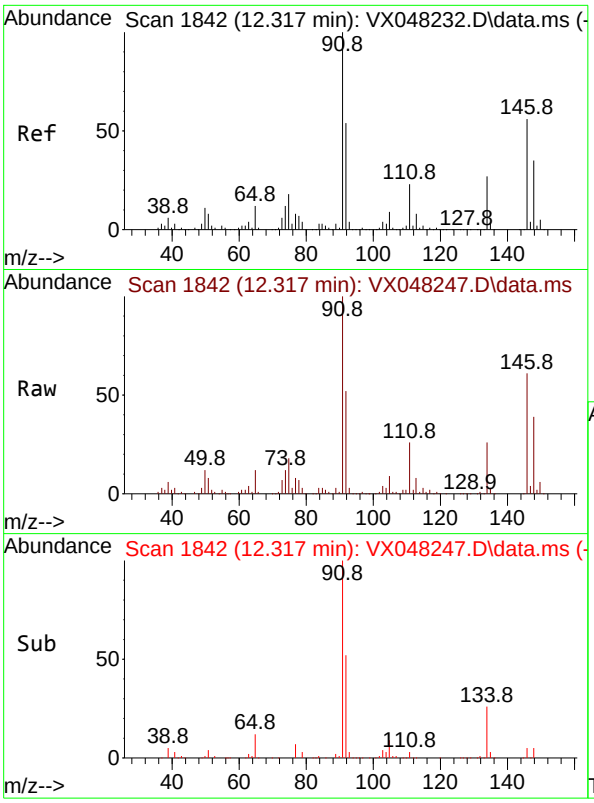


#90
Hexachloroethane
Concen: 16.842 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:117 Resp: 19902

Ion	Ratio	Lower	Upper
117	100		
201	73.0	34.1	102.2



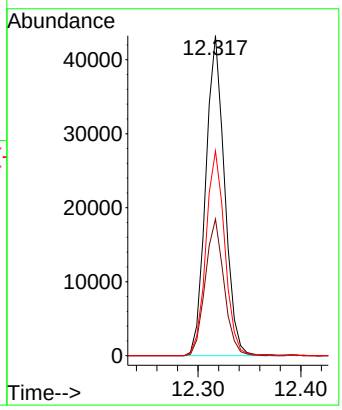


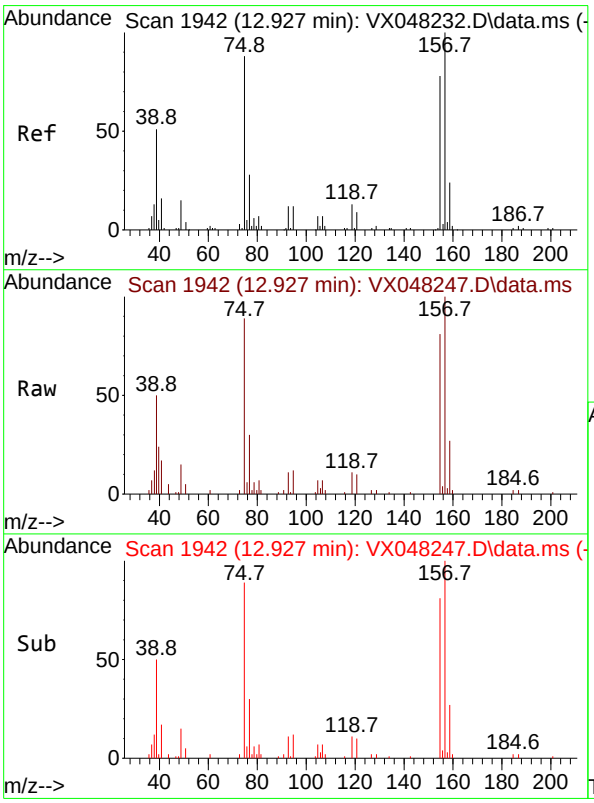
#91
1,2-Dichlorobenzene
Concen: 18.286 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion:146 Resp: 54922

Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.9	65.5
148	64.1	31.9	95.5

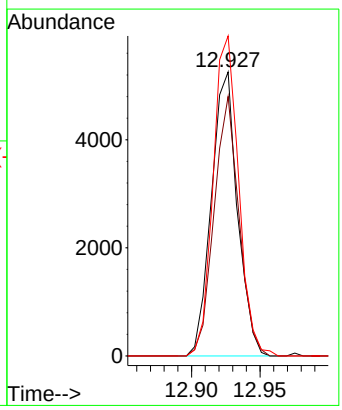


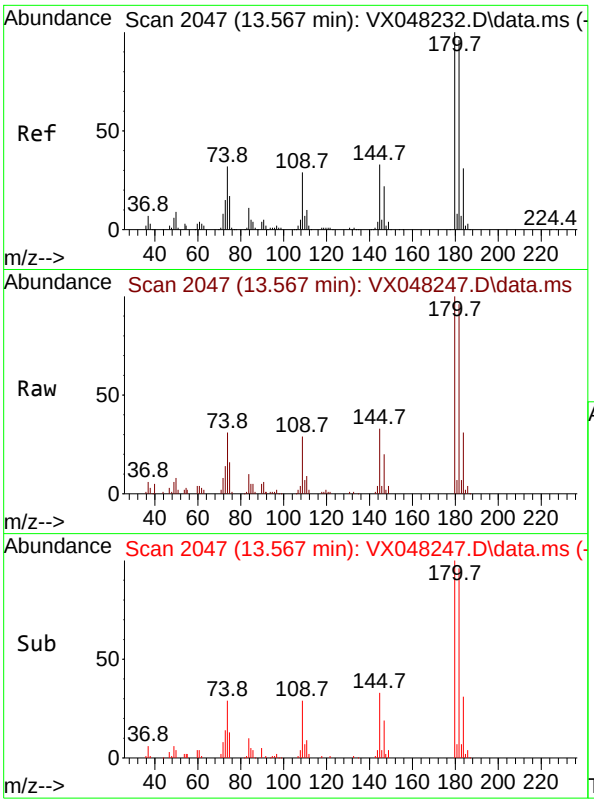


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.508 ug/l
RT: 12.927 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion: 75 Resp: 6943

Ion	Ratio	Lower	Upper
75	100		
155	87.2	42.8	128.4
157	110.1	54.2	162.6



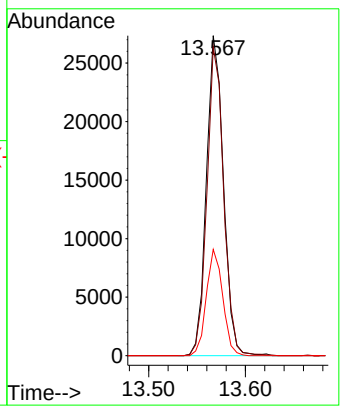


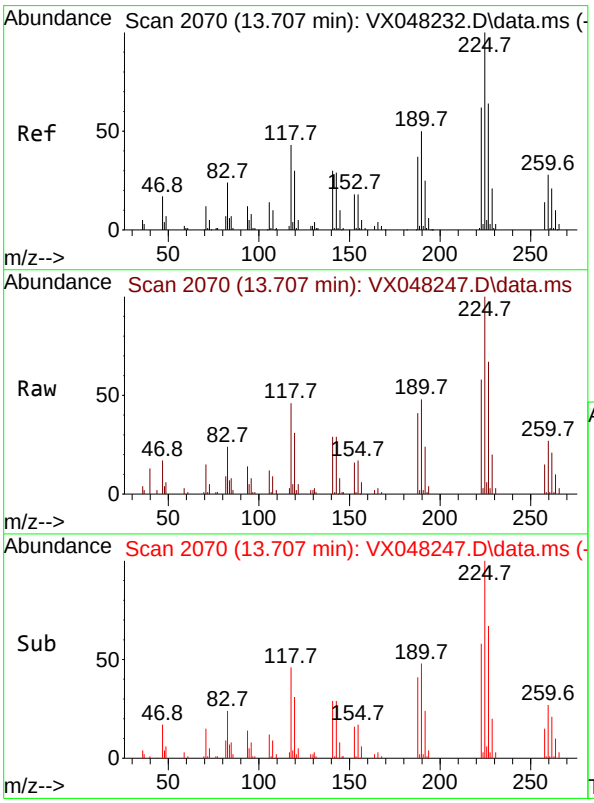
#93
1,2,4-Trichlorobenzene
Concen: 16.510 ug/l
RT: 13.567 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion:180 Resp: 33533

Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.3	142.0
145	32.0	16.3	48.9

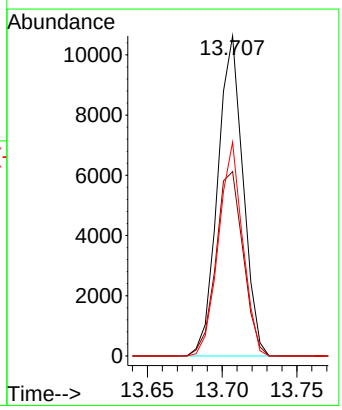


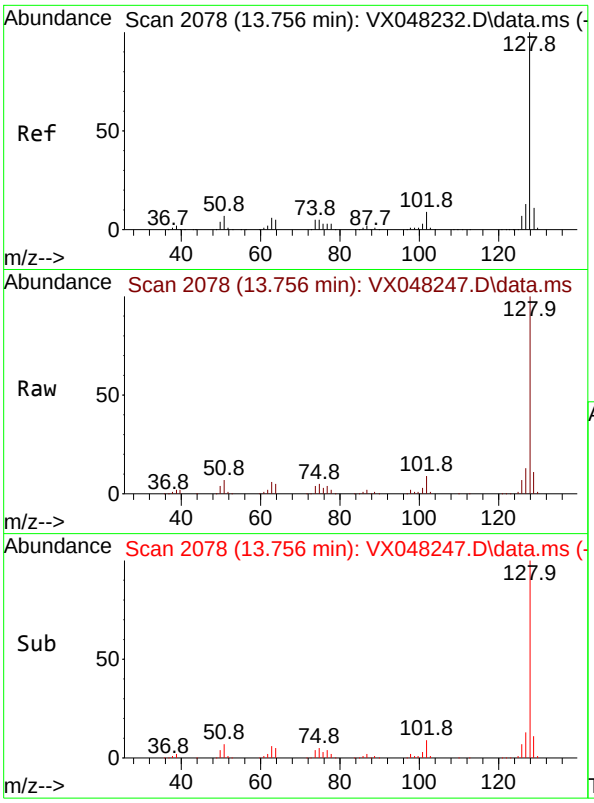


#94
Hexachlorobutadiene
Concen: 16.531 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:225 Resp: 12548

Ion	Ratio	Lower	Upper
225	100		
223	61.9	32.6	97.7
227	63.3	32.5	97.4



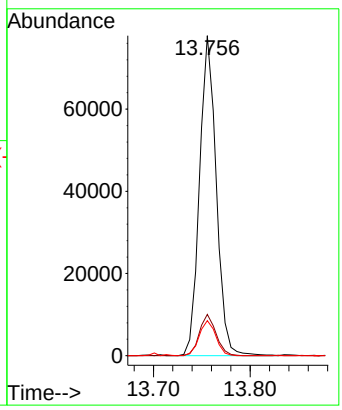


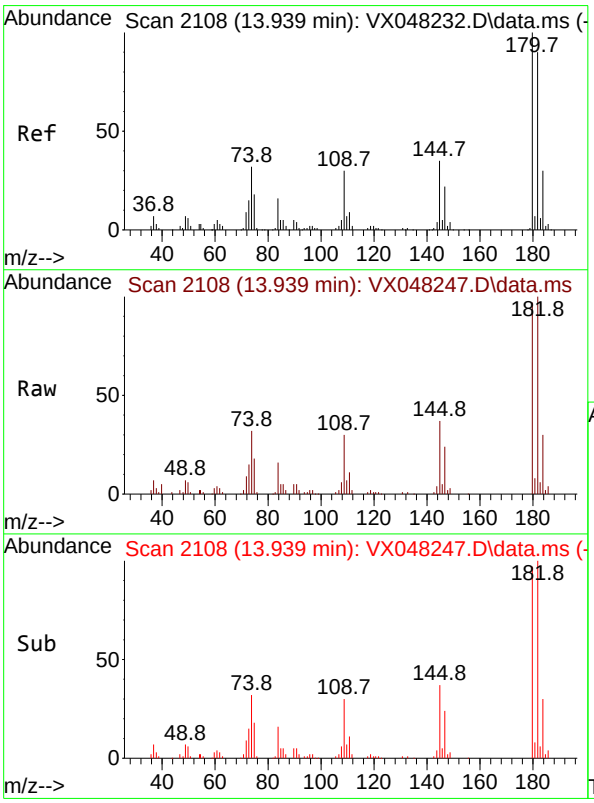
#95
Naphthalene
Concen: 17.469 ug/l
RT: 13.756 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
VX1020WBSD01

Tgt Ion:128 Resp: 94002

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4
129	10.9	8.6	12.8

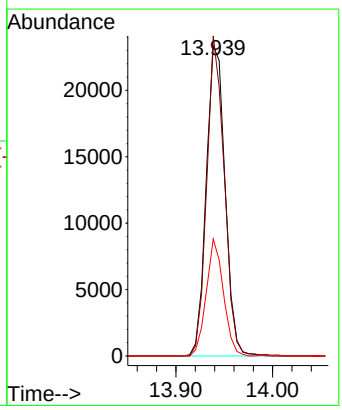




#96
1,2,3-Trichlorobenzene
Concen: 16.990 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. 0.000 min
Lab File: VX048247.D
Acq: 20 Oct 2025 18:22

Tgt Ion:180 Resp: 31666

Ion	Ratio	Lower	Upper
180	100		
182	95.8	46.6	139.7
145	34.4	16.9	50.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048250.D
Acq On : 20 Oct 2025 19:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Oct 21 06:16:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	139607	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	238004	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	222585	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	111726	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	91100	46.542	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 93.080%			
35) Dibromofluoromethane	5.373	113	74151	45.636	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 91.280%			
50) Toluene-d8	8.634	98	254653	44.713	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 89.420%#			
62) 4-Bromofluorobenzene	11.061	95	100937	46.587	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 93.180%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	54463	37.949	ug/l	97
3) Chloromethane	1.300	50	53315	39.799	ug/l	96
4) Vinyl Chloride	1.380	62	51029	41.136	ug/l	99
5) Bromomethane	1.611	94	35864	42.601	ug/l	94
6) Chloroethane	1.691	64	31620	43.378	ug/l	97
7) Trichlorofluoromethane	1.892	101	97500	40.982	ug/l	99
8) Diethyl Ether	2.136	74	30102	44.968	ug/l	88
9) 1,1,2-Trichlorotrifluo...	2.337	101	60929	40.443	ug/l	95
10) Methyl Iodide	2.459	142	84168	44.441	ug/l	100
11) Tert butyl alcohol	2.946	59	37972	195.385	ug/l	98
12) 1,1-Dichloroethene	2.325	96	61159	41.727	ug/l	94
13) Acrolein	2.239	56	42514	214.491	ug/l	98
14) Allyl chloride	2.666	41	103340	42.467	ug/l	97
15) Acrylonitrile	3.056	53	156803	223.753	ug/l	99
16) Acetone	2.373	43	117599	175.130	ug/l	96
17) Carbon Disulfide	2.514	76	177056	38.329	ug/l	100
18) Methyl Acetate	2.703	43	63263	45.112	ug/l	96
19) Methyl tert-butyl Ether	3.111	73	222981	44.595	ug/l	100
20) Methylene Chloride	2.788	84	73170	44.720	ug/l	93
21) trans-1,2-Dichloroethene	3.093	96	69597	43.228	ug/l	96
22) Diisopropyl ether	3.751	45	223032	45.952	ug/l	93
23) Vinyl Acetate	3.715	43	896740	231.296	ug/l	96
24) 1,1-Dichloroethane	3.605	63	127890	43.578	ug/l	99
25) 2-Butanone	4.544	43	179090	210.709	ug/l	99
26) 2,2-Dichloropropane	4.471	77	103563	39.096	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	82973	44.159	ug/l	97
28) Bromochloromethane	4.891	49	62244	51.151	ug/l	90
29) Tetrahydrofuran	4.989	42	114202	224.351	ug/l	95
30) Chloroform	5.080	83	135447	43.198	ug/l	97
31) Cyclohexane	5.464	56	104755	43.114	ug/l	91
32) 1,1,1-Trichloroethane	5.373	97	123078	42.592	ug/l	98
36) 1,1-Dichloropropene	5.684	75	91151	39.469	ug/l	99
37) Ethyl Acetate	4.702	43	76900	40.173	ug/l	96
38) Carbon Tetrachloride	5.672	117	107972	37.895	ug/l	95
39) Methylcyclohexane	7.366	83	107188	39.300	ug/l	92
40) Benzene	6.025	78	280412	41.821	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048250.D
Acq On : 20 Oct 2025 19:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Oct 21 06:16:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.903	41	42951	42.726	ug/l		96
42) 1,2-Dichloroethane	6.074	62	102580	41.460	ug/l		99
43) Isopropyl Acetate	6.324	43	133321	42.401	ug/l	#	94
44) Trichloroethene	7.110	130	72723	41.075	ug/l		89
45) 1,2-Dichloropropane	7.415	63	68867	43.200	ug/l		98
46) Dibromomethane	7.568	93	52507	42.277	ug/l		94
47) Bromodichloromethane	7.805	83	111343	41.521	ug/l		99
48) Methyl methacrylate	7.677	41	67583	42.595	ug/l		93
49) 1,4-Dioxane	7.647	88	16924	807.374	ug/l		93
51) 4-Methyl-2-Pentanone	8.555	43	387550	213.772	ug/l		95
52) Toluene	8.702	92	176360	41.403	ug/l		100
53) t-1,3-Dichloropropene	8.964	75	109424	42.344	ug/l		100
54) cis-1,3-Dichloropropene	8.354	75	117004	41.966	ug/l		94
55) 1,1,2-Trichloroethane	9.134	97	67214	42.431	ug/l		99
56) Ethyl methacrylate	9.104	69	103017	44.462	ug/l		93
57) 1,3-Dichloropropane	9.293	76	115414	42.655	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	266044	213.796	ug/l		96
59) 2-Hexanone	9.415	43	266829	211.078	ug/l		95
60) Dibromochloromethane	9.506	129	87021	40.872	ug/l		100
61) 1,2-Dibromoethane	9.592	107	71534	42.360	ug/l		98
64) Tetrachloroethene	9.256	164	62251	37.463	ug/l		99
65) Chlorobenzene	10.061	112	199218	39.787	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.146	131	72921	39.651	ug/l		99
67) Ethyl Benzene	10.177	91	340670	39.962	ug/l		99
68) m/p-Xylenes	10.287	106	258895	81.737	ug/l		99
69) o-Xylene	10.622	106	124210	40.619	ug/l		99
70) Styrene	10.640	104	217296	41.732	ug/l		99
71) Bromoform	10.780	173	57595	39.184	ug/l	#	100
73) Isopropylbenzene	10.945	105	320429	39.266	ug/l		99
74) N-amyl acetate	10.823	43	121526	41.983	ug/l		95
75) 1,1,2,2-Tetrachloroethane	11.195	83	89867	40.326	ug/l		99
76) 1,2,3-Trichloropropane	11.219	75	100169	55.286	ug/l		78
77) Bromobenzene	11.183	156	82137	40.142	ug/l		95
78) n-propylbenzene	11.286	91	375729	39.766	ug/l		97
79) 2-Chlorotoluene	11.347	91	227832	39.772	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	267685	39.638	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	28849	38.739	ug/l		98
82) 4-Chlorotoluene	11.439	91	269666	39.656	ug/l		97
83) tert-Butylbenzene	11.695	119	274302	39.532	ug/l		96
84) 1,2,4-Trimethylbenzene	11.731	105	270928	40.199	ug/l		100
85) sec-Butylbenzene	11.872	105	321937	38.565	ug/l		100
86) p-Isopropyltoluene	11.994	119	275642	38.201	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	149462	38.747	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	150187	37.584	ug/l		99
89) n-Butylbenzene	12.311	91	243576	37.088	ug/l		99
90) Hexachloroethane	12.518	117	51888	36.415	ug/l		94
91) 1,2-Dichlorobenzene	12.317	146	140047	38.670	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.920	75	18165	40.157	ug/l		98
93) 1,2,4-Trichlorobenzene	13.566	180	89376	36.492	ug/l		99
94) Hexachlorobutadiene	13.707	225	32393	35.315	ug/l		99
95) Naphthalene	13.755	128	261541	40.307	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	84101	37.421	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048250.D
Acq On : 20 Oct 2025 19:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Oct 21 06:16:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

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

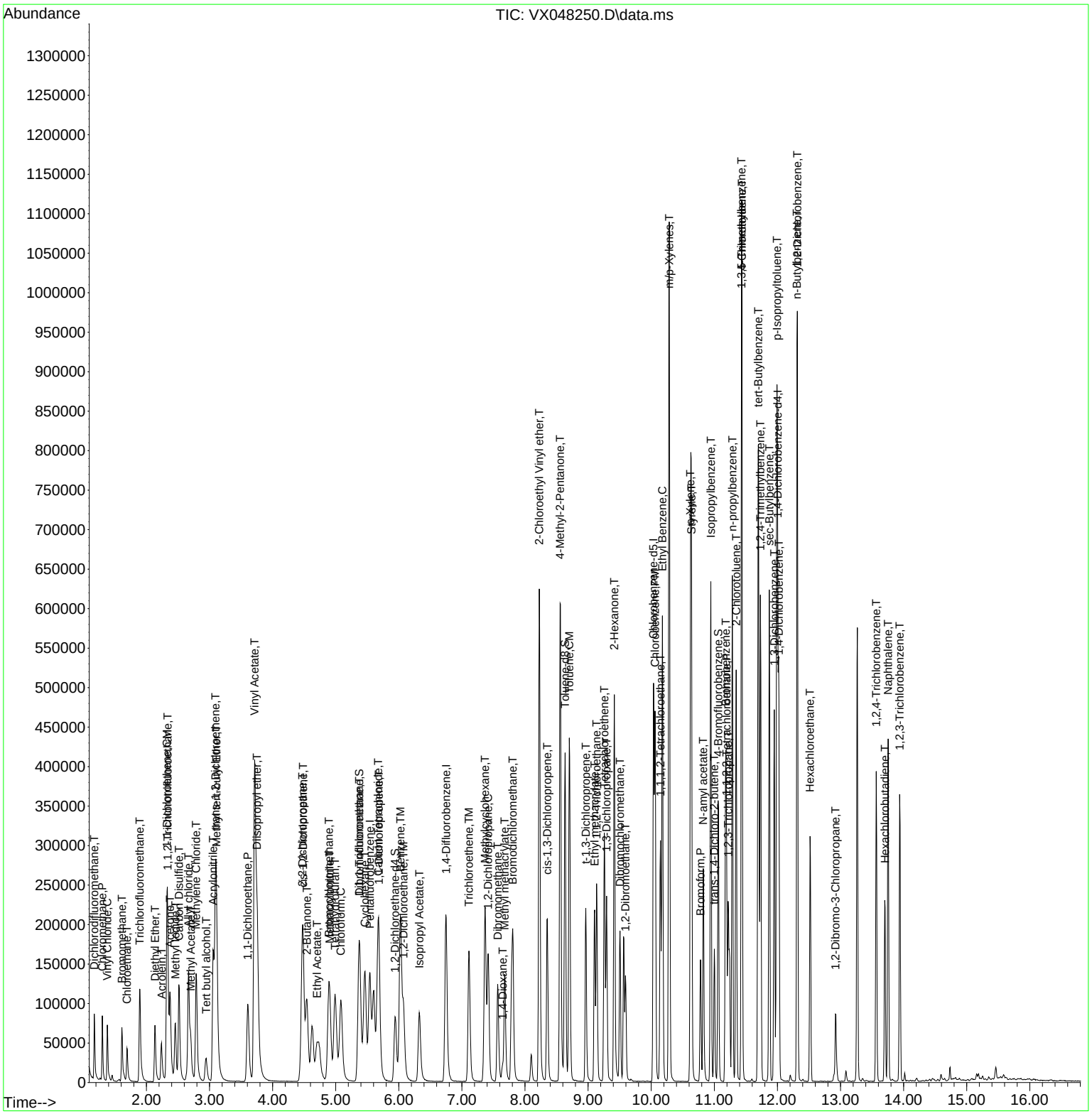
(#) = qualifier out of range (m) = manual integration (+) = signals summed

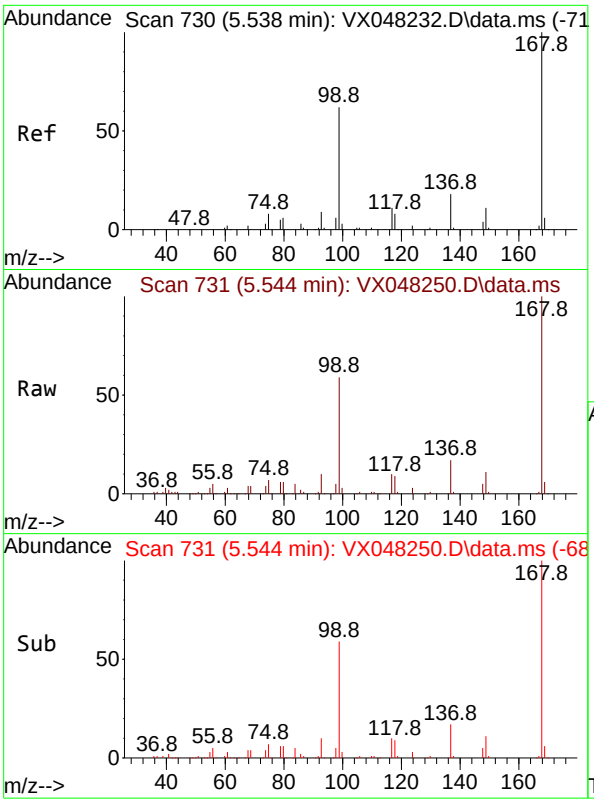
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048250.D
Acq On : 20 Oct 2025 19:25
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Oct 21 06:16:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration



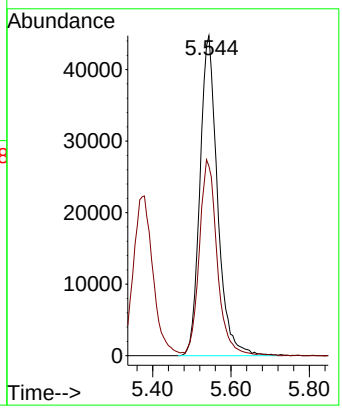


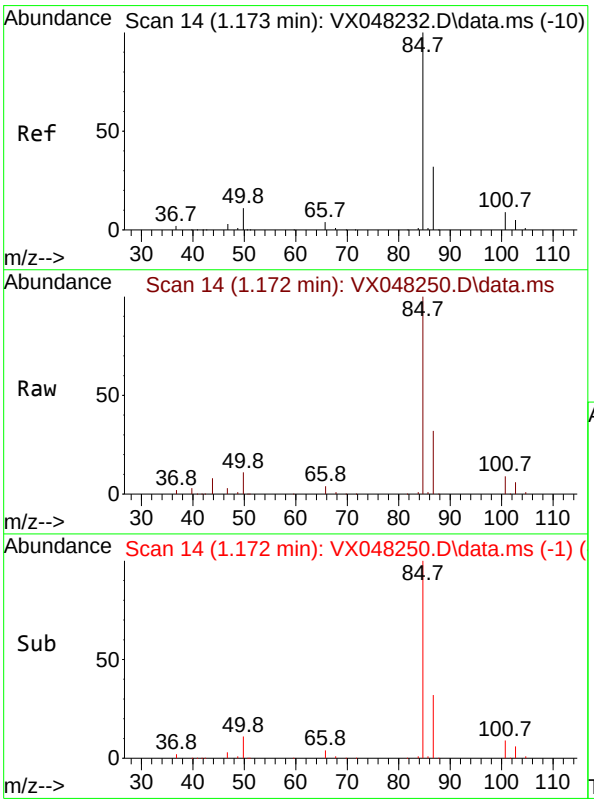
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 139607

Ion	Ratio	Lower	Upper
168	100		
99	59.3	46.4	69.6

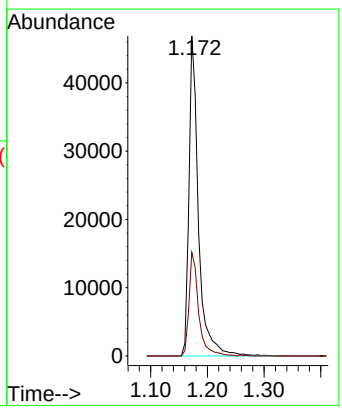


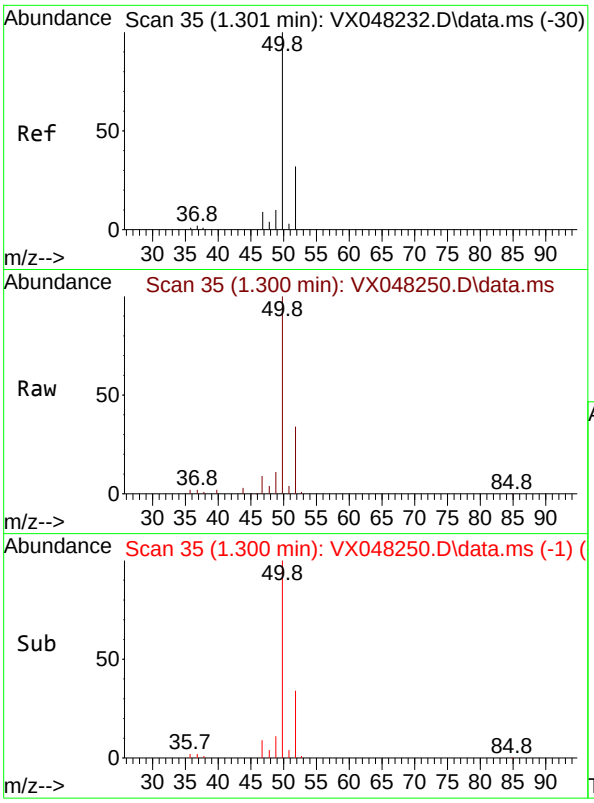


#2
Dichlorodifluoromethane
Concen: 37.949 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 85 Resp: 54463

Ion	Ratio	Lower	Upper
85	100		
87	32.4	15.3	45.9



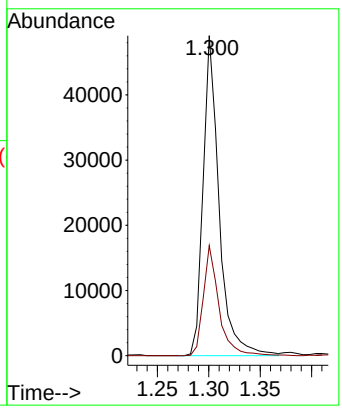


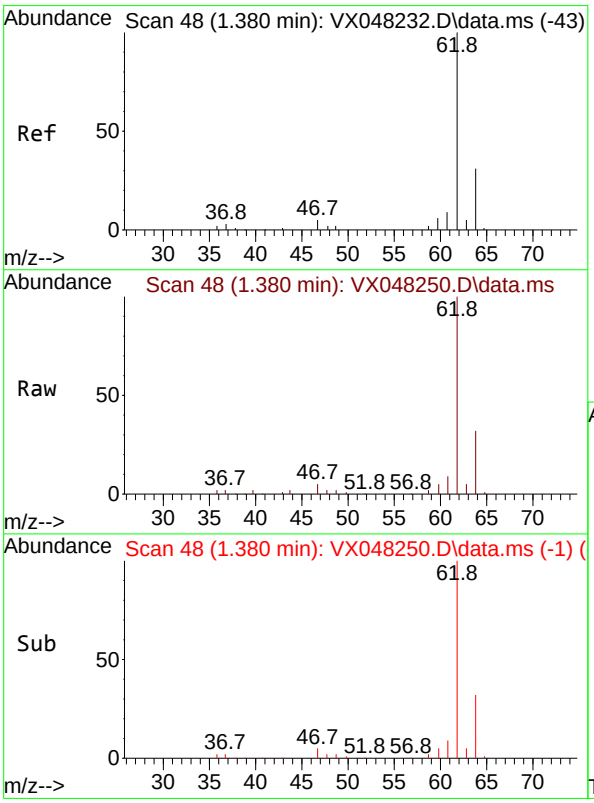
#3
Chloromethane
Concen: 39.799 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 53315

Ion	Ratio	Lower	Upper
50	100		
52	34.4	25.9	38.9

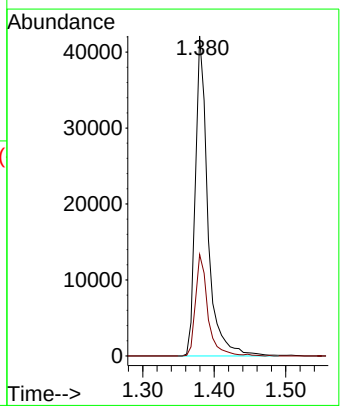


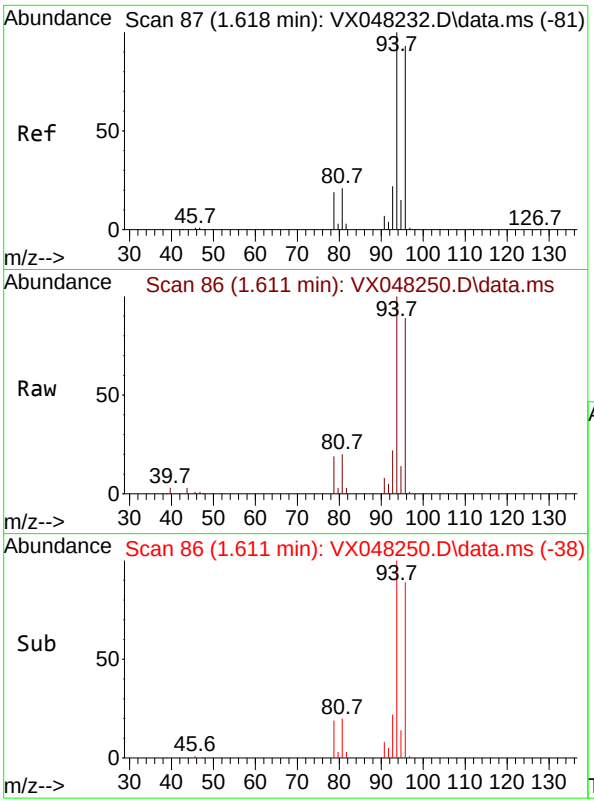


#4
Vinyl Chloride
Concen: 41.136 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 62 Resp: 51029

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.1	37.7



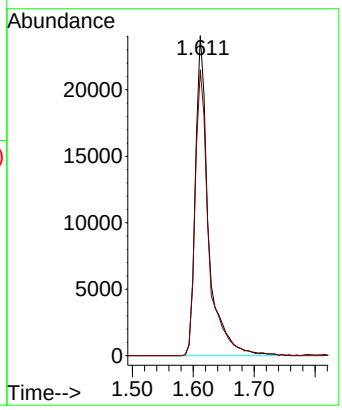


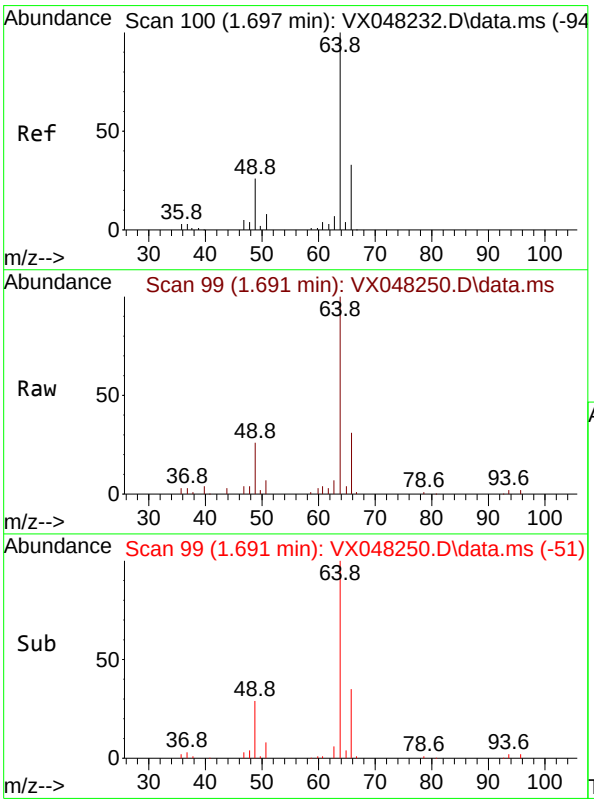
#5
Bromomethane
Concen: 42.601 ug/l
RT: 1.611 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 35864

Ion	Ratio	Lower	Upper
94	100		
96	89.3	76.0	114.0

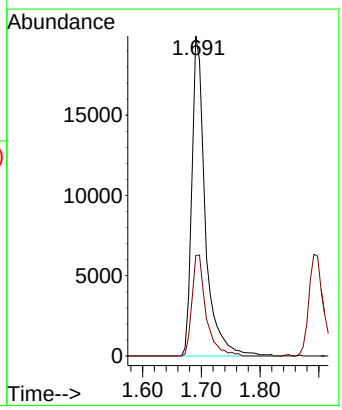


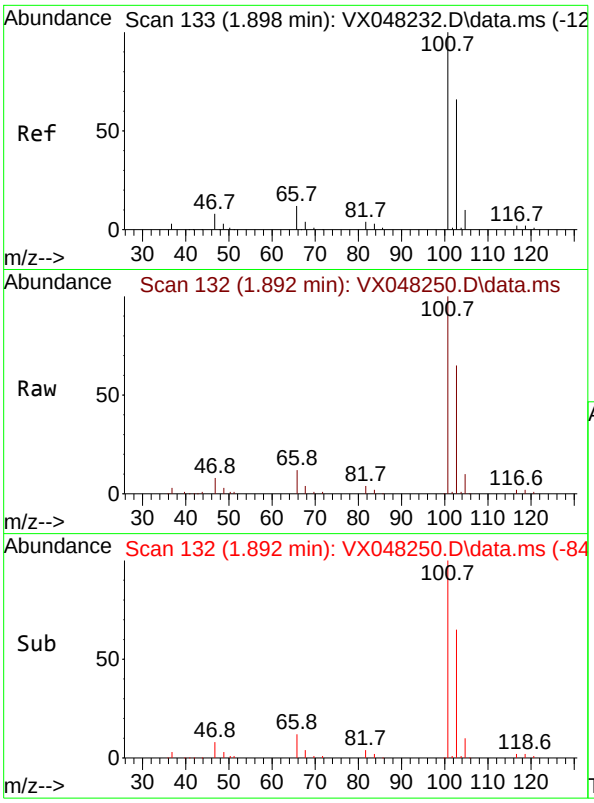


#6
Chloroethane
Concen: 43.378 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 64 Resp: 31620

Ion	Ratio	Lower	Upper
64	100		
66	31.3	23.9	35.9



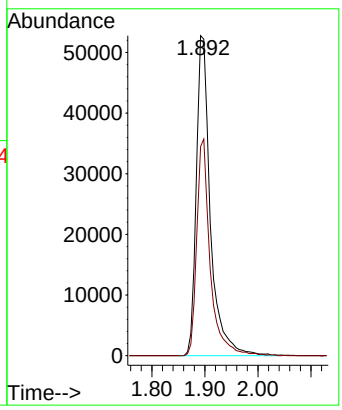


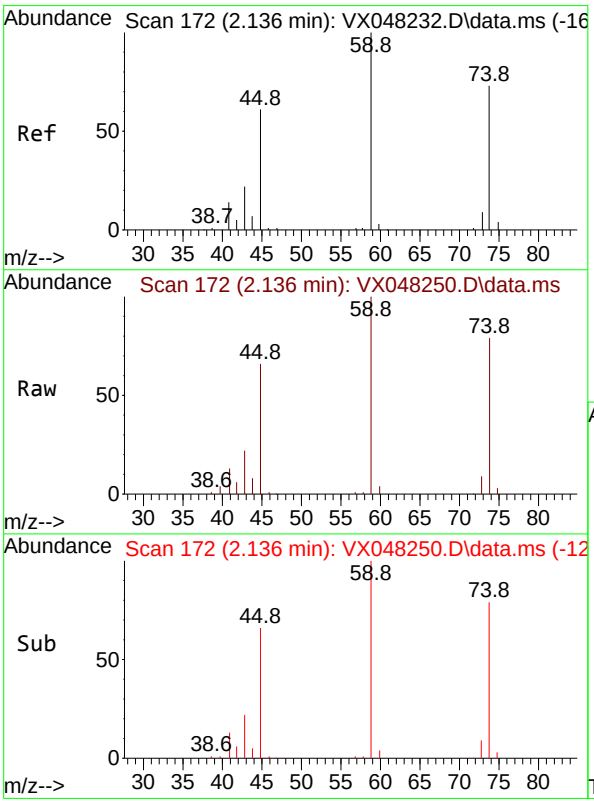
#7
Trichlorofluoromethane
Concen: 40.982 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 97500

Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.6	77.4

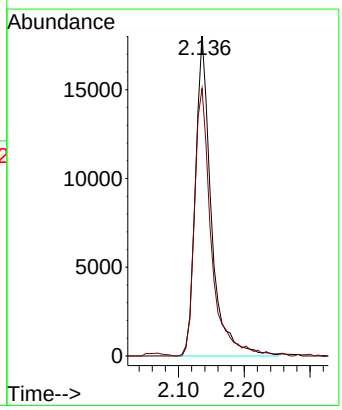


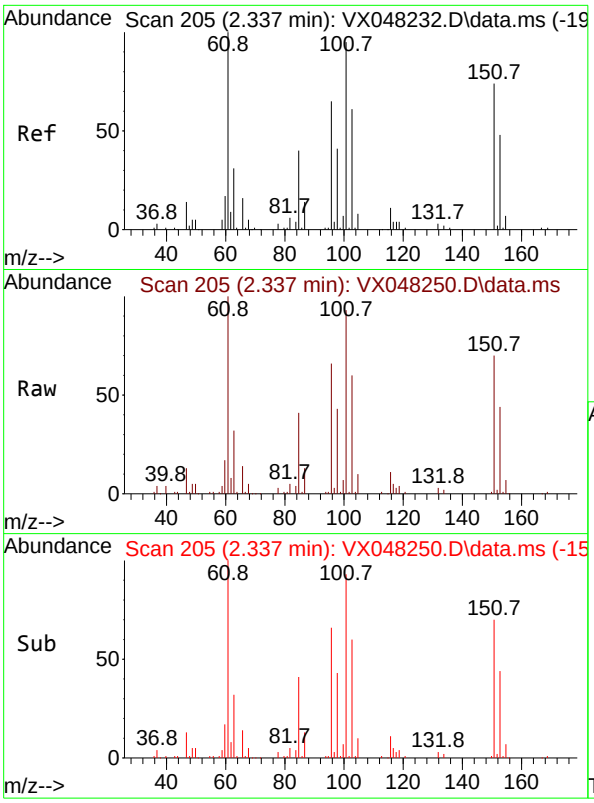


#8
Diethyl Ether
Concen: 44.968 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 74 Resp: 30102

Ion	Ratio	Lower	Upper
74	100		
45	88.4	50.0	149.8



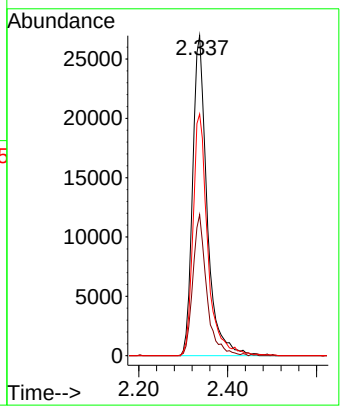


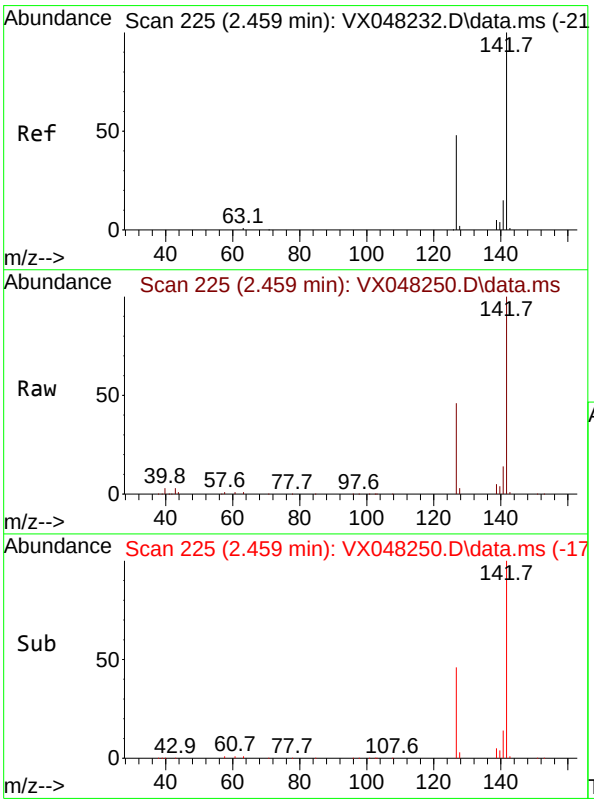
#9
1,1,2-Trichlorotrifluoroethane
Concen: 40.443 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 60929

Ion	Ratio	Lower	Upper
101	100		
85	42.4	35.6	53.4
151	77.2	58.0	87.0

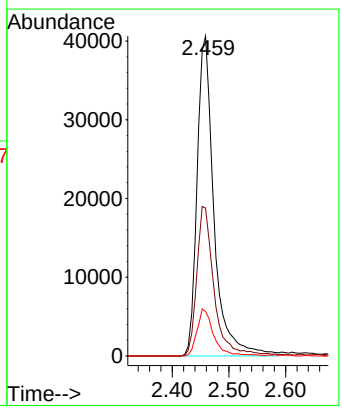


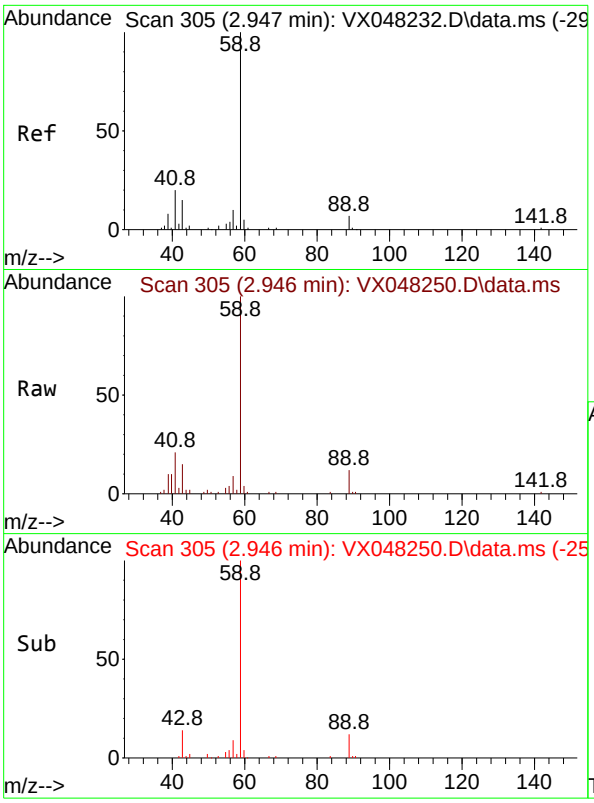


#10
Methyl Iodide
Concen: 44.441 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:142 Resp: 84168

Ion	Ratio	Lower	Upper
142	100		
127	48.3	38.5	57.7
141	14.5	11.6	17.4



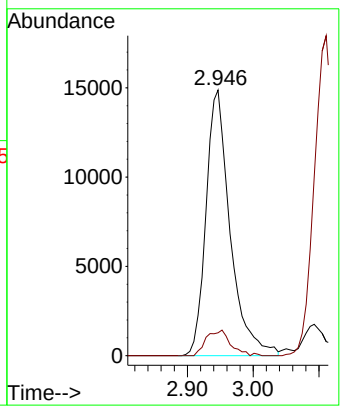


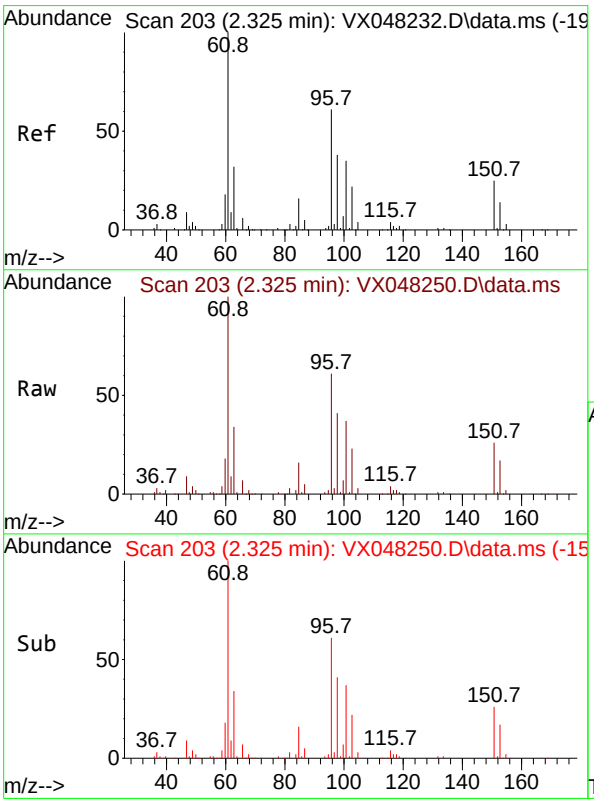
#11
Tert butyl alcohol
Concen: 195.385 ug/l
RT: 2.946 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 37972

Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.2	12.4

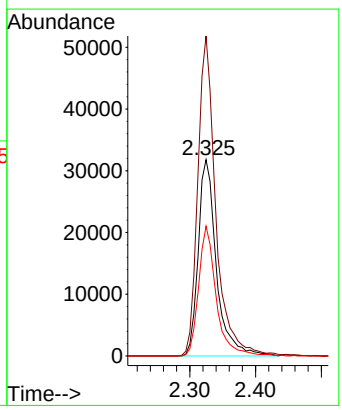


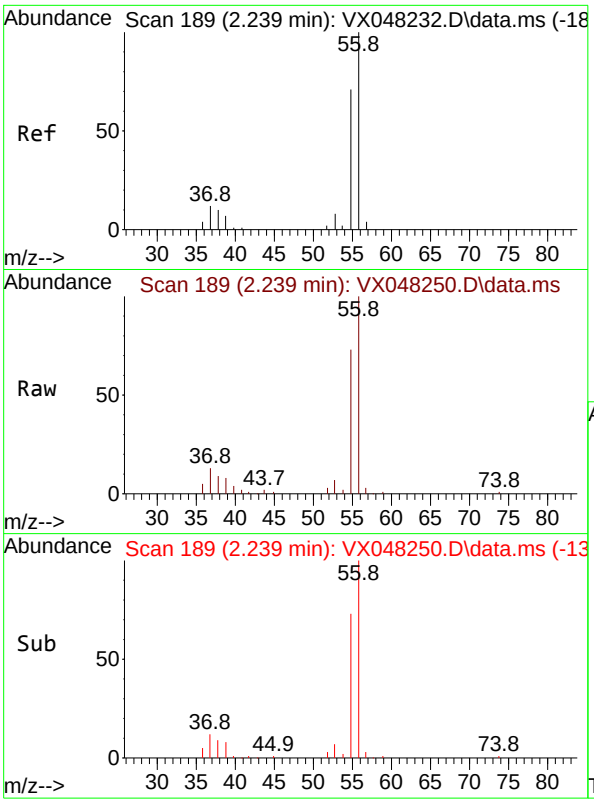


#12
1,1-Dichloroethene
Concen: 41.727 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 96 Resp: 61159

Ion	Ratio	Lower	Upper
96	100		
61	163.0	139.0	208.6
98	66.1	52.4	78.6



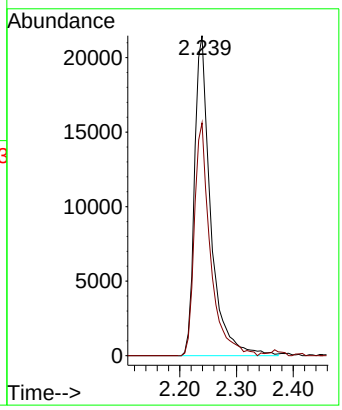


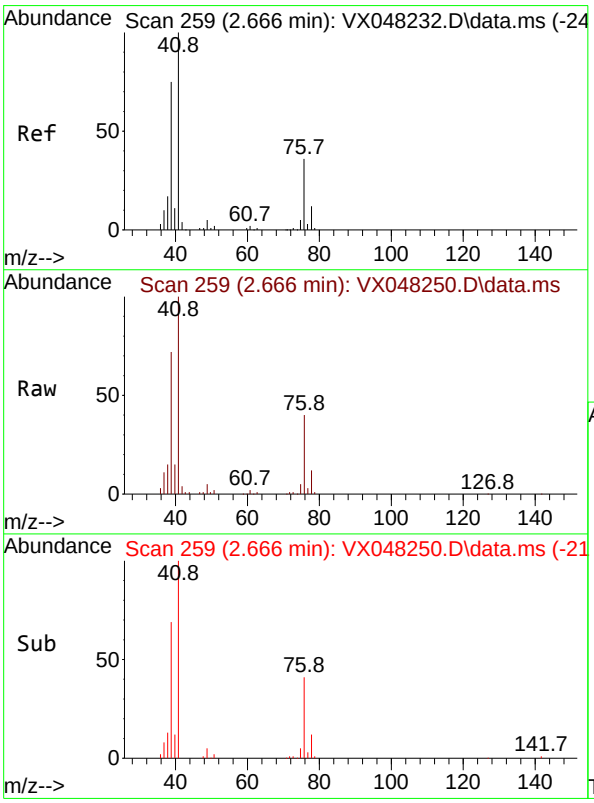
#13
Acrolein
Concen: 214.491 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 42514

Ion	Ratio	Lower	Upper
56	100		
55	71.9	56.1	84.1

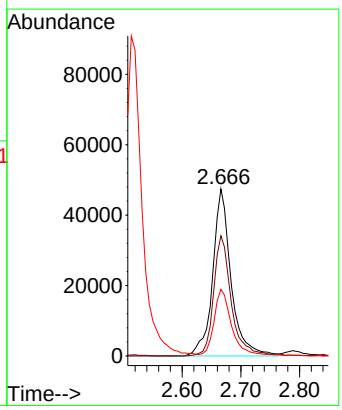


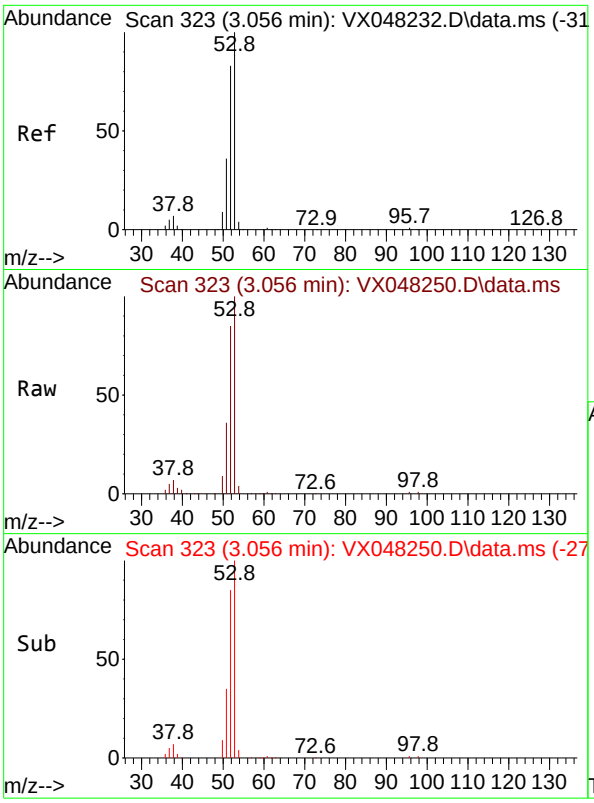


#14
Allyl chloride
Concen: 42.467 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 41 Resp: 103340

Ion	Ratio	Lower	Upper
41	100		
39	69.3	56.0	84.0
76	38.5	27.5	41.3



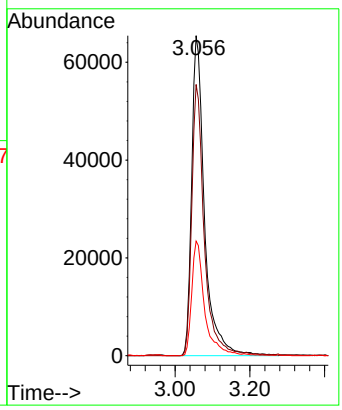


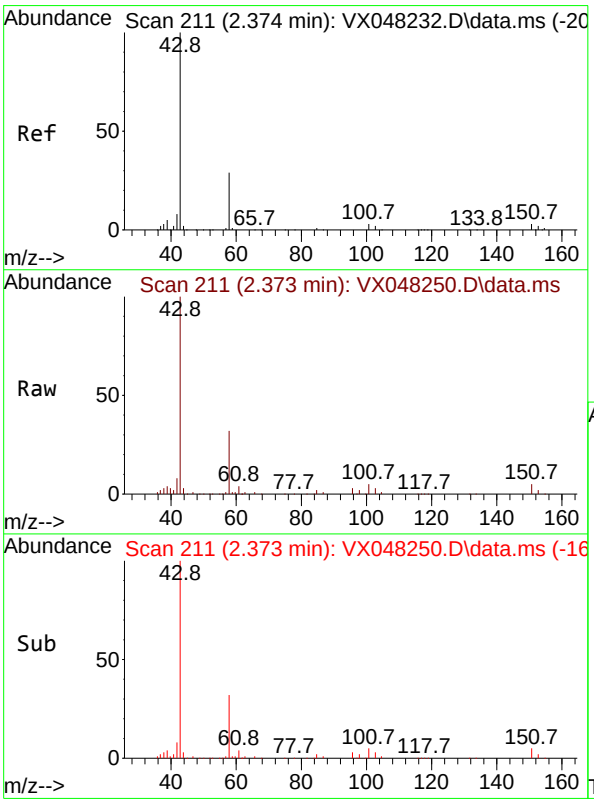
#15
Acrylonitrile
Concen: 223.753 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 156803

Ion	Ratio	Lower	Upper
53	100		
52	81.5	66.1	99.1
51	35.7	29.0	43.4

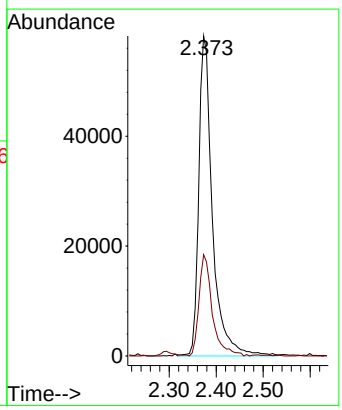


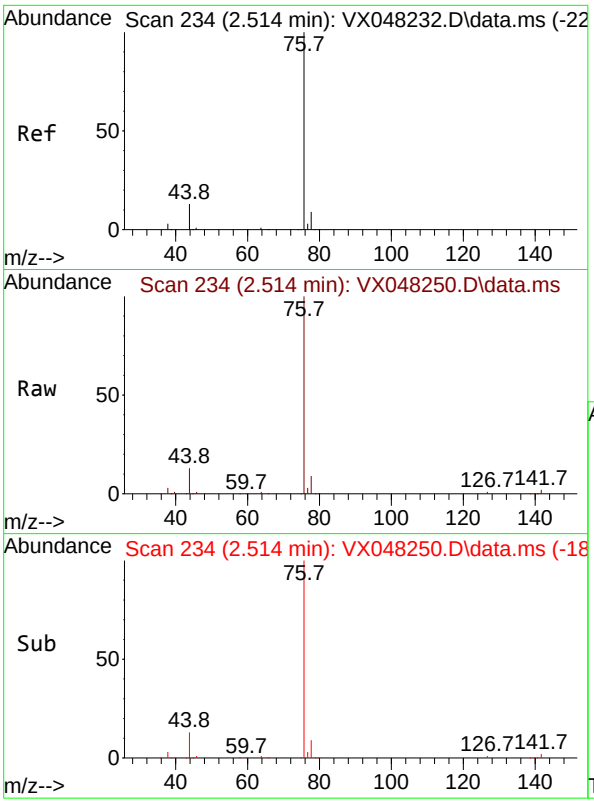


#16
Acetone
Concen: 175.130 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 43 Resp: 117599

Ion	Ratio	Lower	Upper
43	100		
58	31.5	23.4	35.2



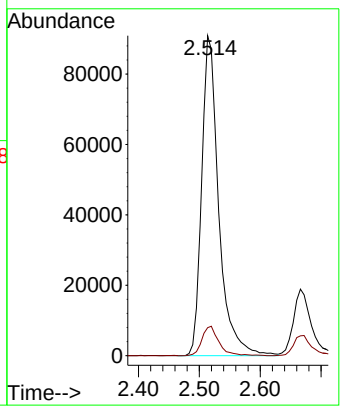


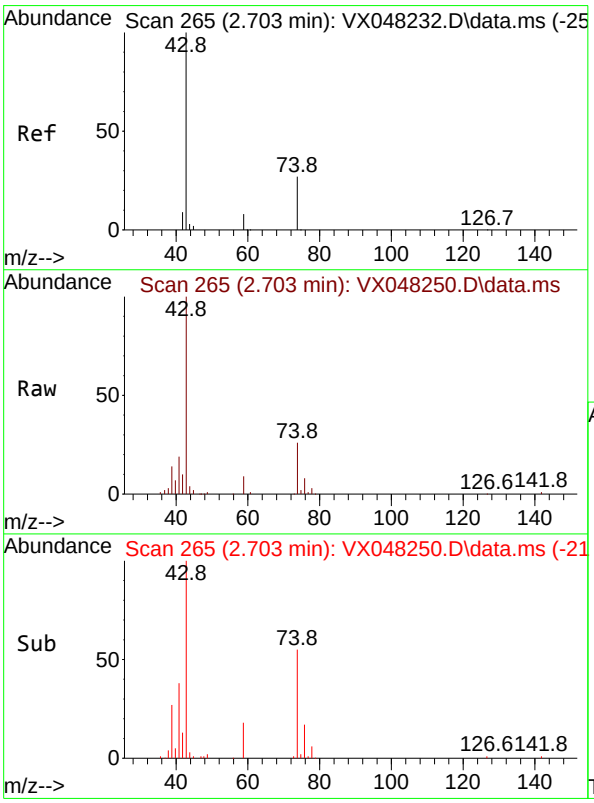
#17
Carbon Disulfide
Concen: 38.329 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 177056

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.1	10.7

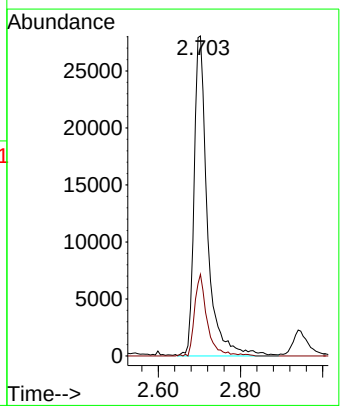


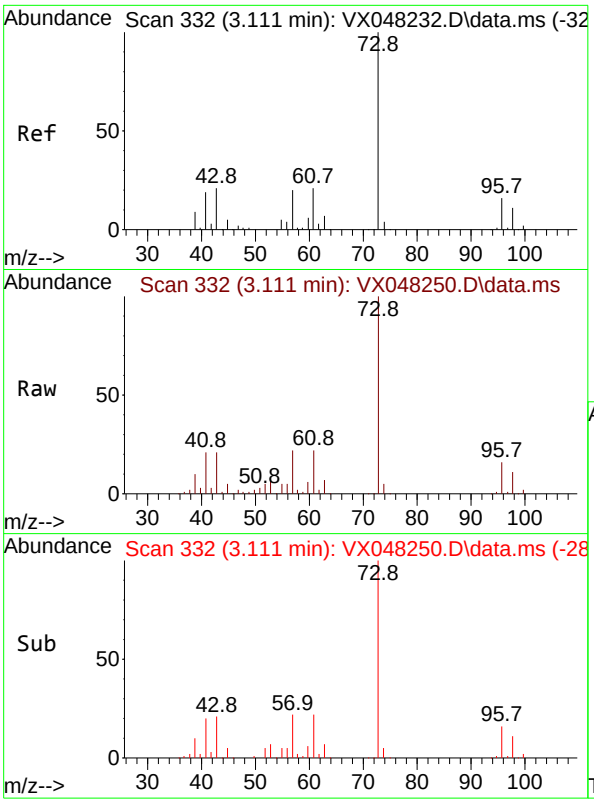


#18
Methyl Acetate
Concen: 45.112 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 43 Resp: 63263

Ion	Ratio	Lower	Upper
43	100		
74	23.6	17.5	26.3



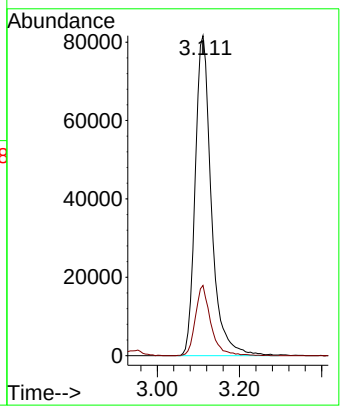


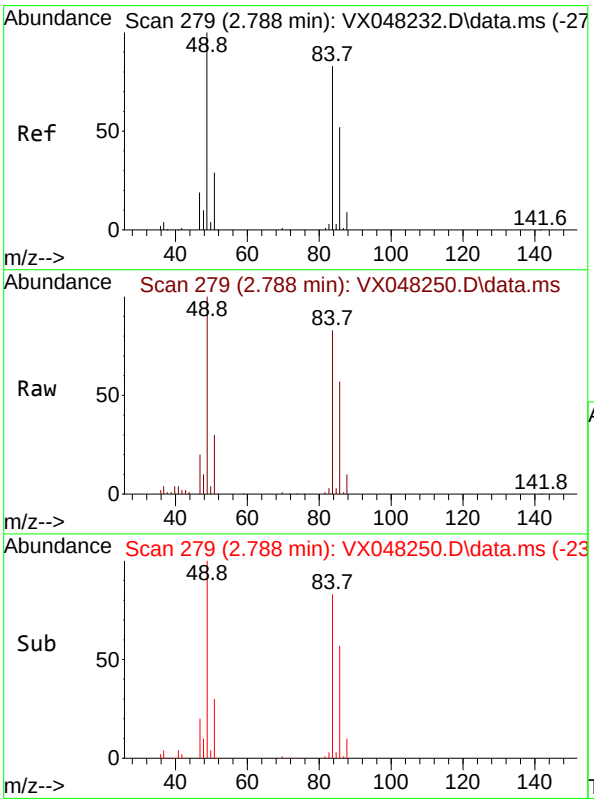
#19
Methyl tert-butyl Ether
Concen: 44.595 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 222981

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.7	26.5

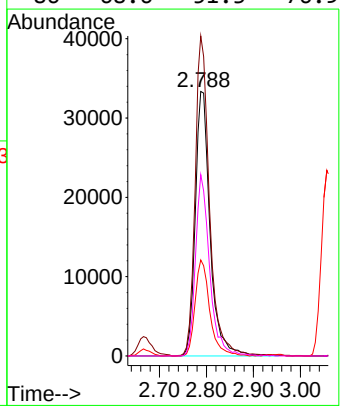


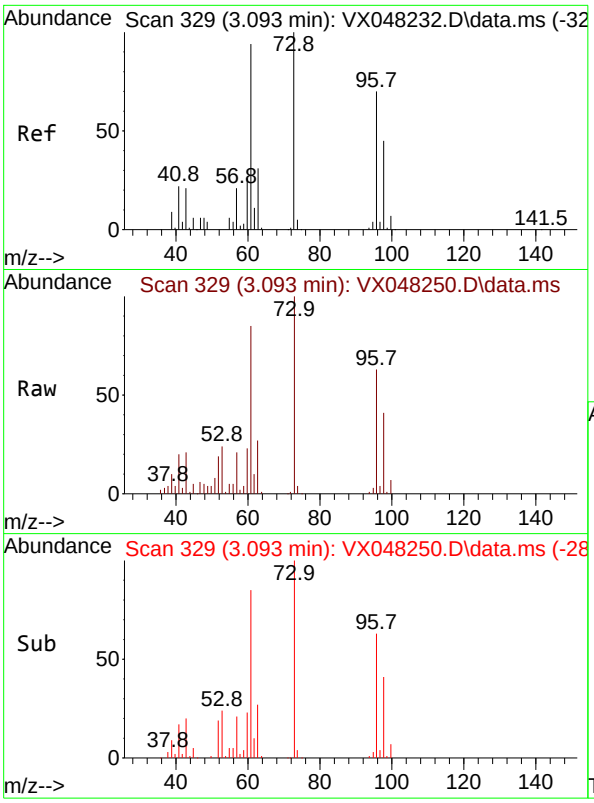


#20
Methylene Chloride
Concen: 44.720 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 84 Resp: 73170

Ion	Ratio	Lower	Upper
84	100		
49	120.8	104.1	156.1
51	36.3	31.3	46.9
86	68.6	51.3	76.9



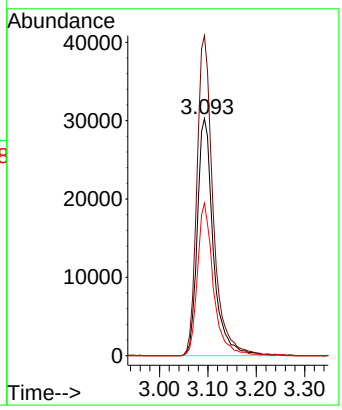


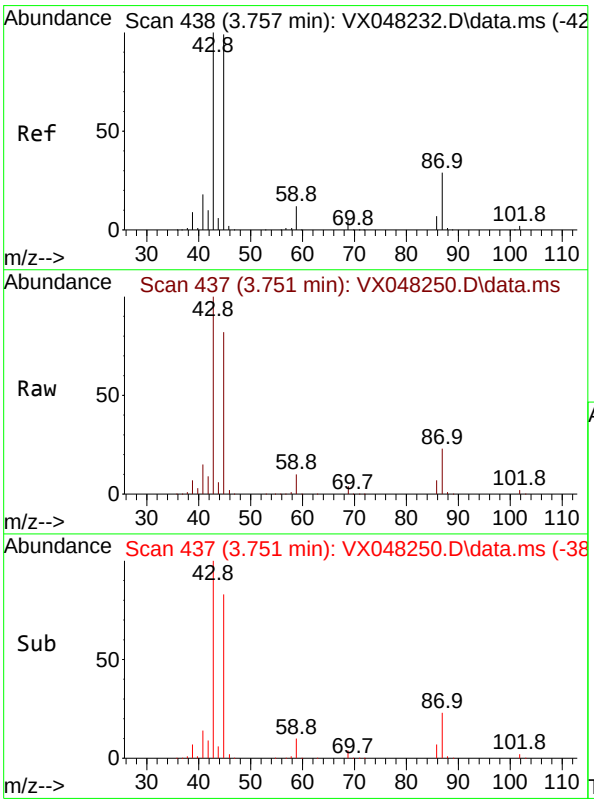
#21
trans-1,2-Dichloroethene
Concen: 43.228 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 69597

Ion	Ratio	Lower	Upper
96	100		
61	134.9	111.9	167.9
98	66.2	51.2	76.8

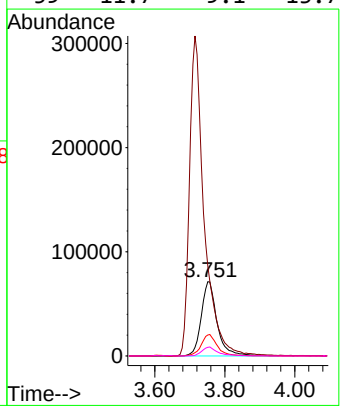


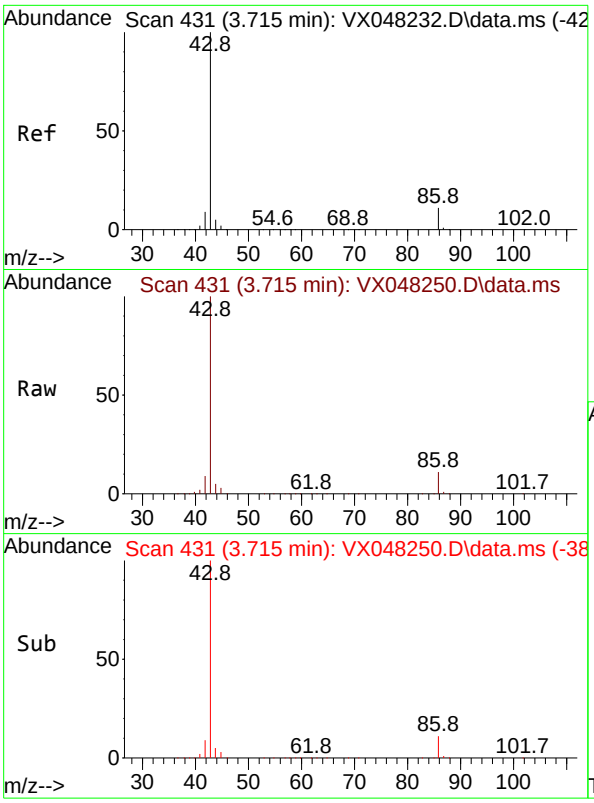


#22
Diisopropyl ether
Concen: 45.952 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 45 Resp: 223032

Ion	Ratio	Lower	Upper
45	100		
43	120.6	89.8	134.8
87	28.4	20.6	31.0
59	11.7	9.1	13.7



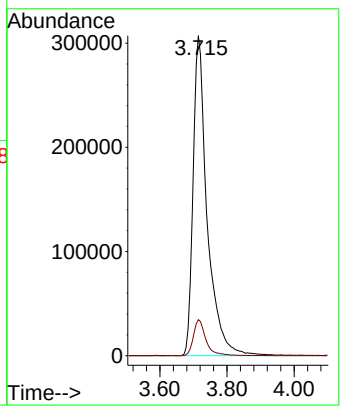


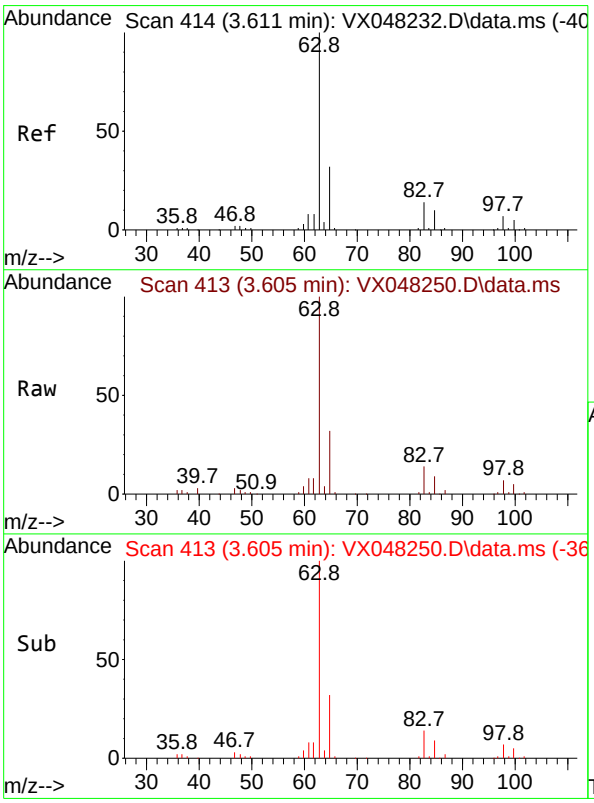
#23
Vinyl Acetate
Concen: 231.296 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 896740

Ion	Ratio	Lower	Upper
43	100		
86	11.3	7.9	11.9

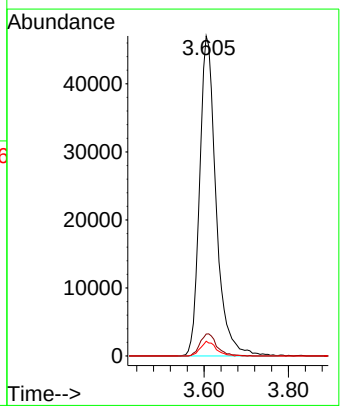


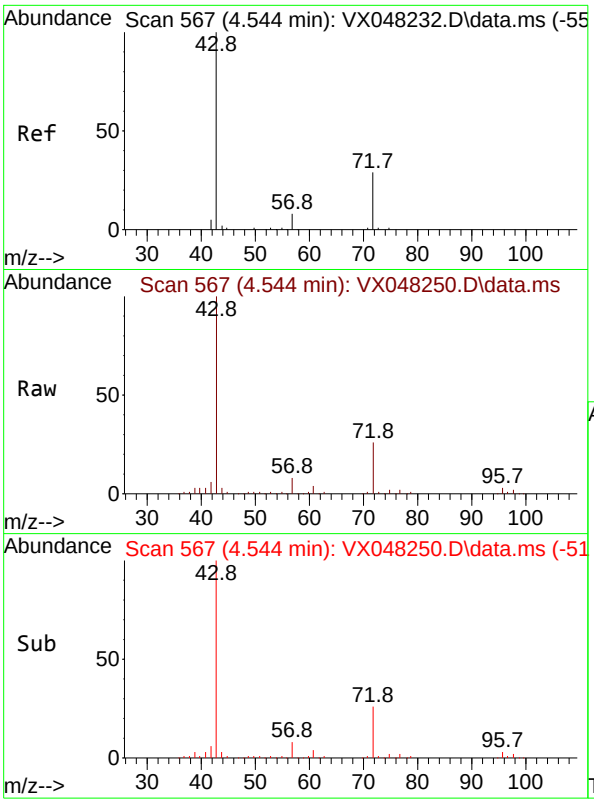


#24
1,1-Dichloroethane
Concen: 43.578 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 63 Resp: 127890

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.5	10.6
100	4.6	2.1	6.3



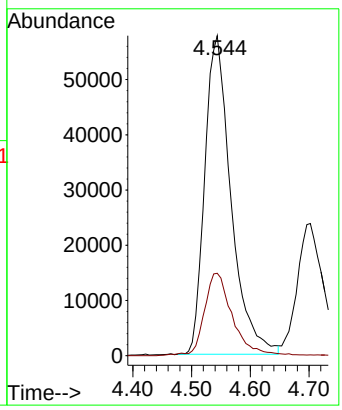


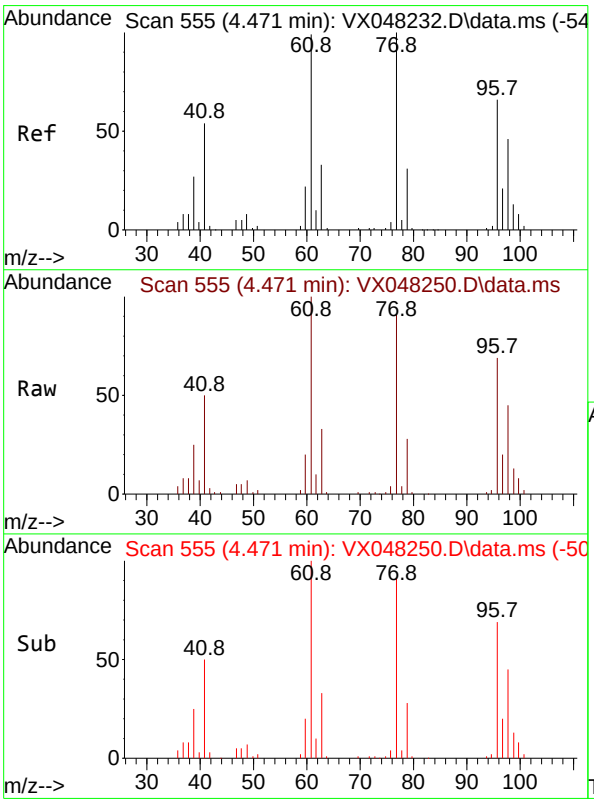
#25
2-Butanone
Concen: 210.709 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 179090

Ion	Ratio	Lower	Upper
43	100		
72	25.3	19.9	29.9

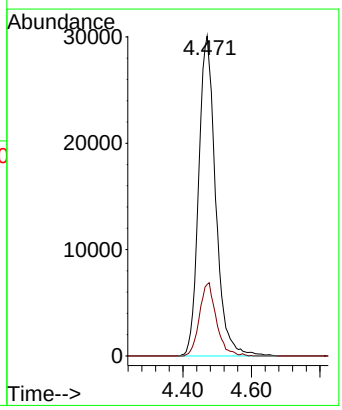


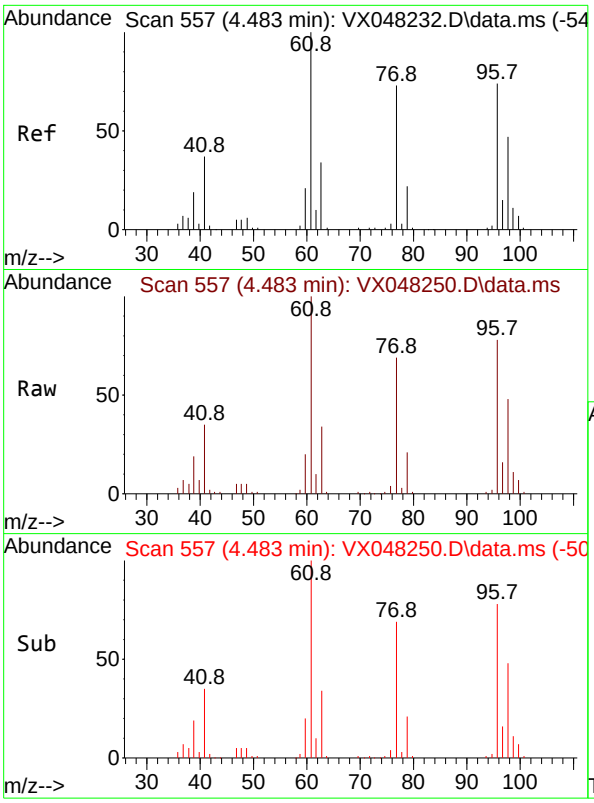


#26
2,2-Dichloropropane
Concen: 39.096 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 77 Resp: 103563

Ion	Ratio	Lower	Upper
77	100		
97	22.6	11.1	33.3



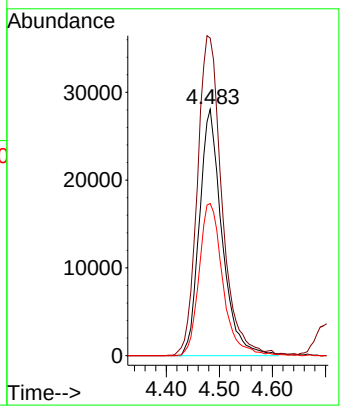


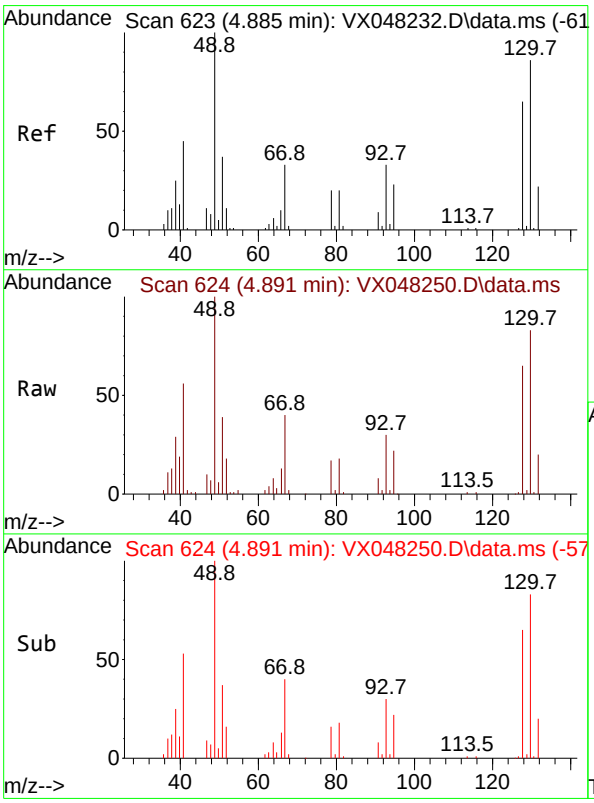
#27
cis-1,2-Dichloroethene
Concen: 44.159 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 82973

Ion	Ratio	Lower	Upper
96	100		
61	141.6	0.0	294.2
98	65.0	0.0	128.4

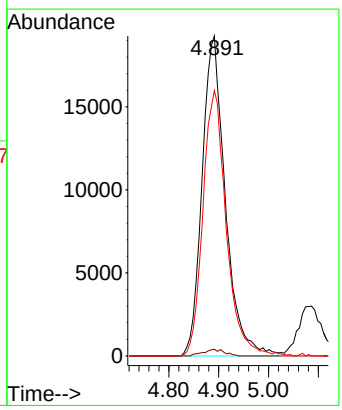


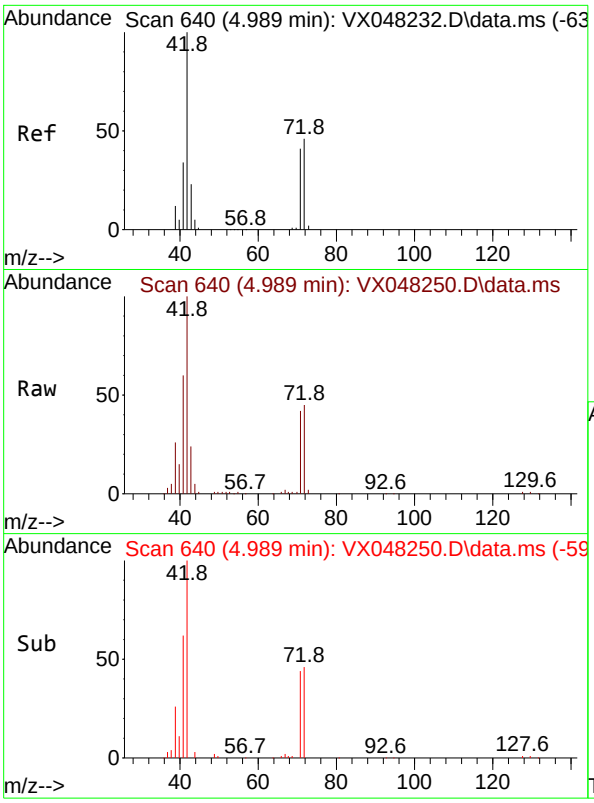


#28
Bromochloromethane
Concen: 51.151 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 49 Resp: 62244

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.4
130	83.0	59.3	88.9



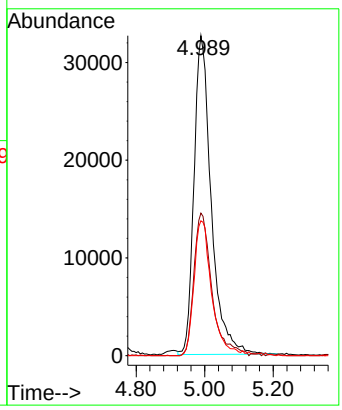


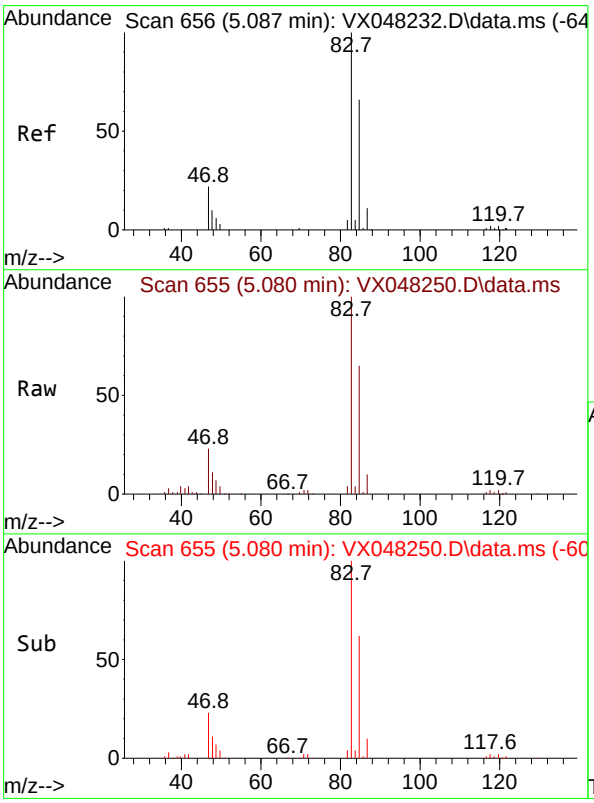
#29
Tetrahydrofuran
Concen: 224.351 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 114202

Ion	Ratio	Lower	Upper
42	100		
72	46.7	35.3	52.9
71	43.5	32.2	48.4

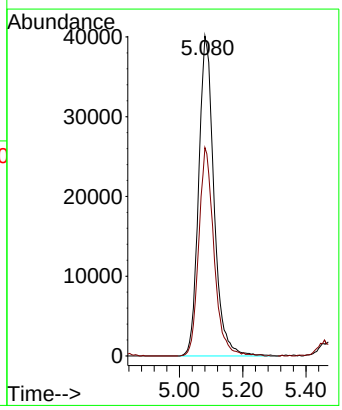


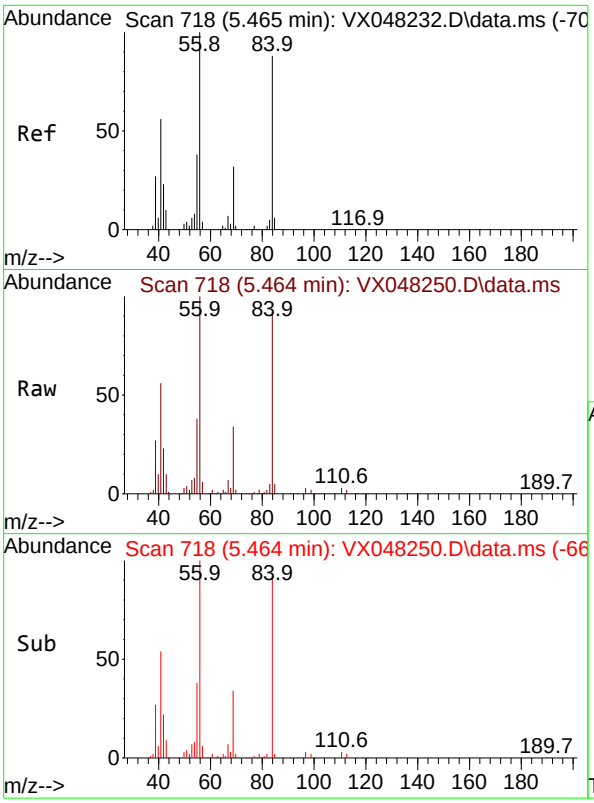


#30
Chloroform
Concen: 43.198 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 83 Resp: 135447

Ion	Ratio	Lower	Upper
83	100		
85	65.1	50.1	75.1



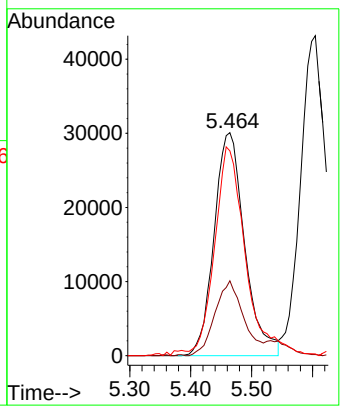


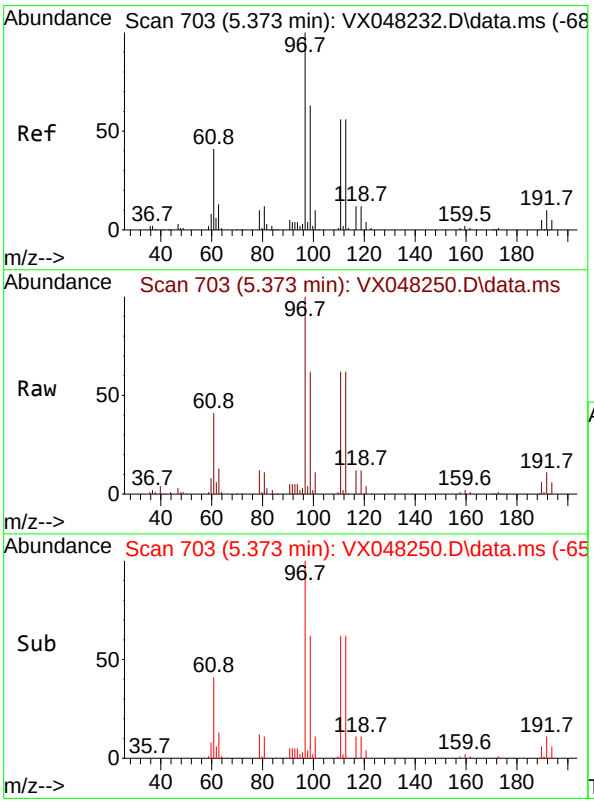
#31
Cyclohexane
Concen: 43.114 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 104755

Ion	Ratio	Lower	Upper
56	100		
69	33.1	23.0	34.6
84	89.5	64.6	97.0

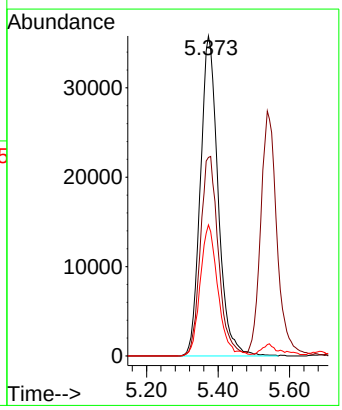


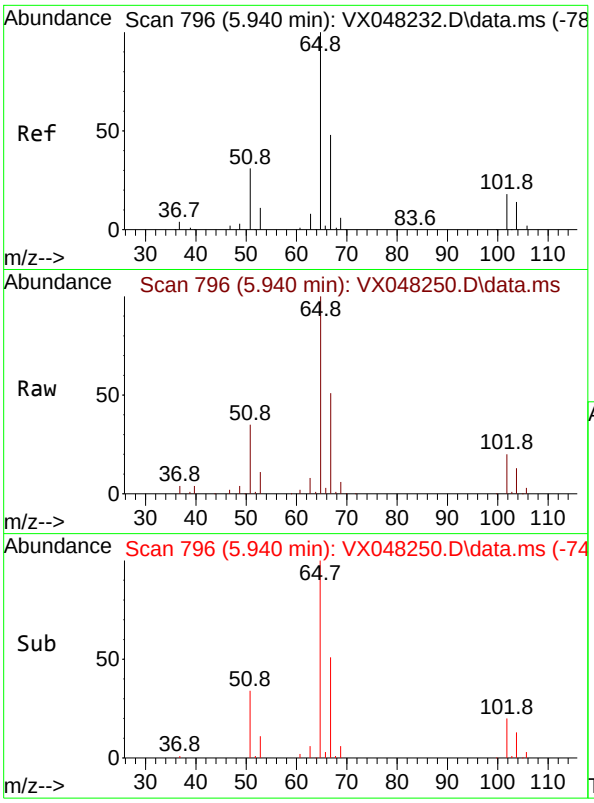


#32
1,1,1-Trichloroethane
Concen: 42.592 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 97 Resp: 123078

Ion	Ratio	Lower	Upper
97	100		
99	63.3	51.7	77.5
61	41.2	34.8	52.2



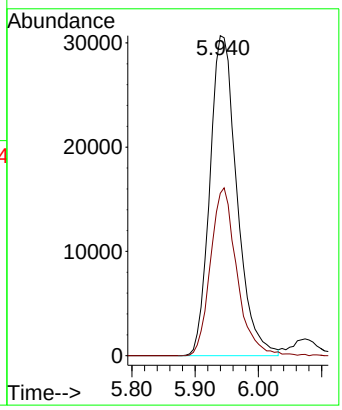


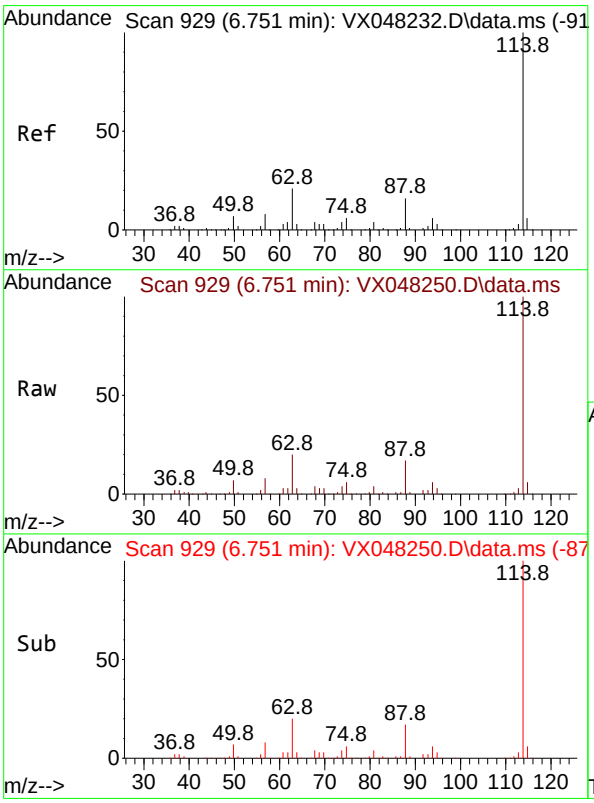
#33
1,2-Dichloroethane-d4
Concen: 46.542 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 91100

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	105.0

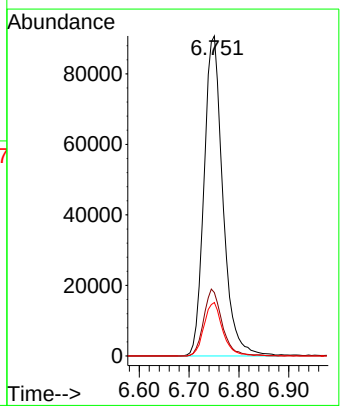


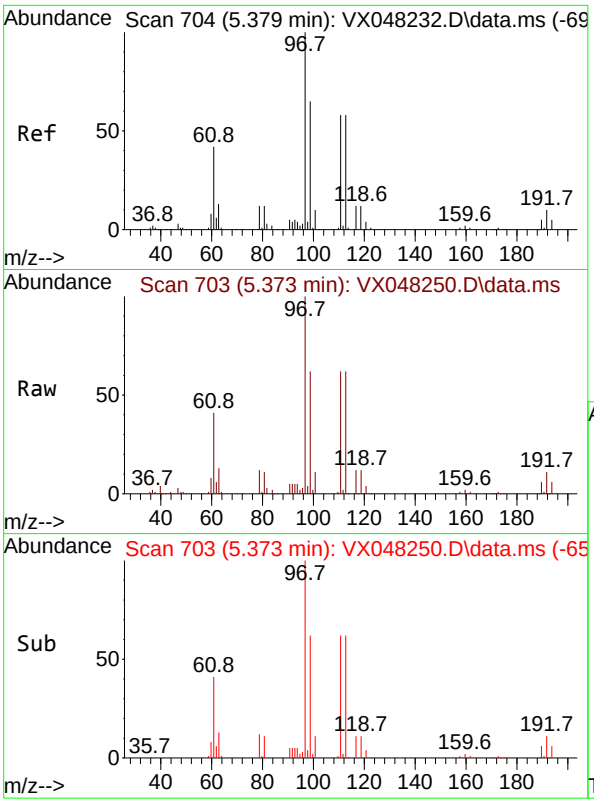


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:114 Resp: 238004

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	43.2
88	16.7	0.0	33.6



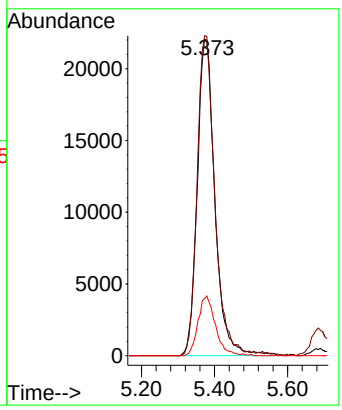


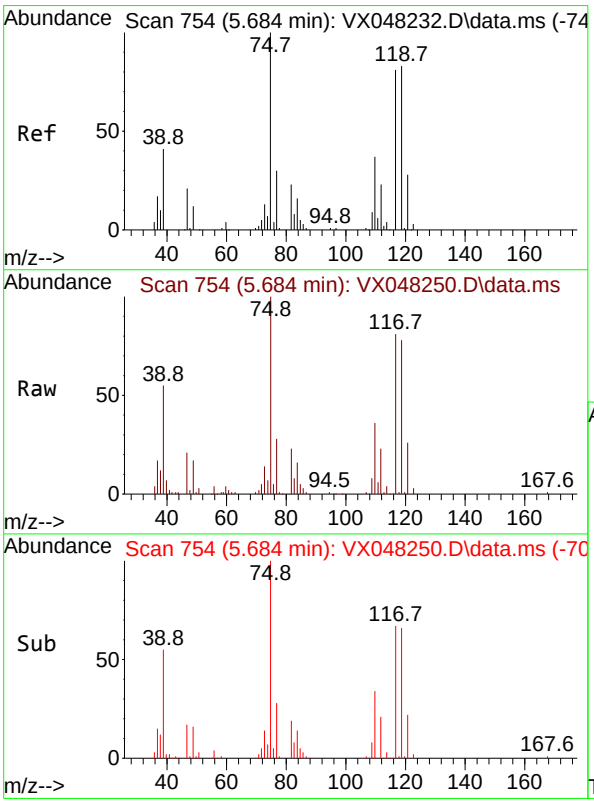
#35
Dibromofluoromethane
Concen: 45.636 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 74151

Ion	Ratio	Lower	Upper
113	100		
111	100.9	82.2	123.4
192	18.5	15.1	22.7

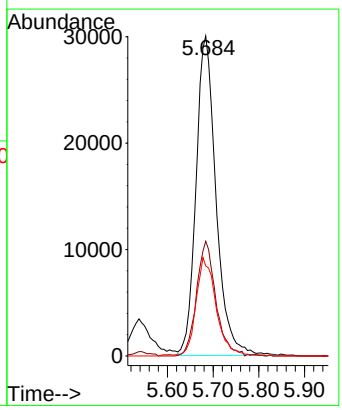


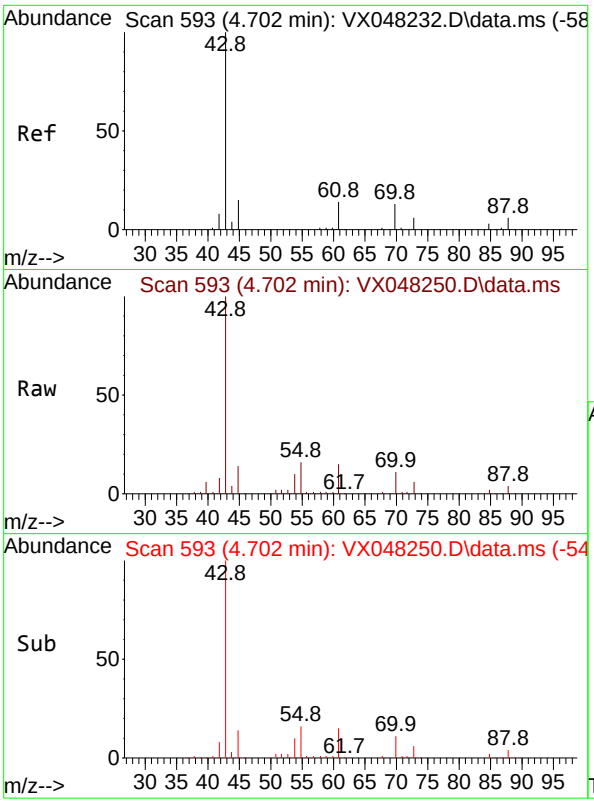


#36
1,1-Dichloropropene
Concen: 39.469 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 75 Resp: 91151

Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.7	53.1
77	29.9	24.3	36.5



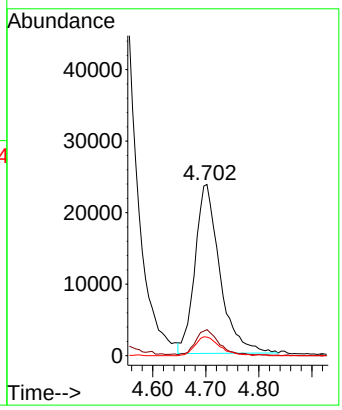


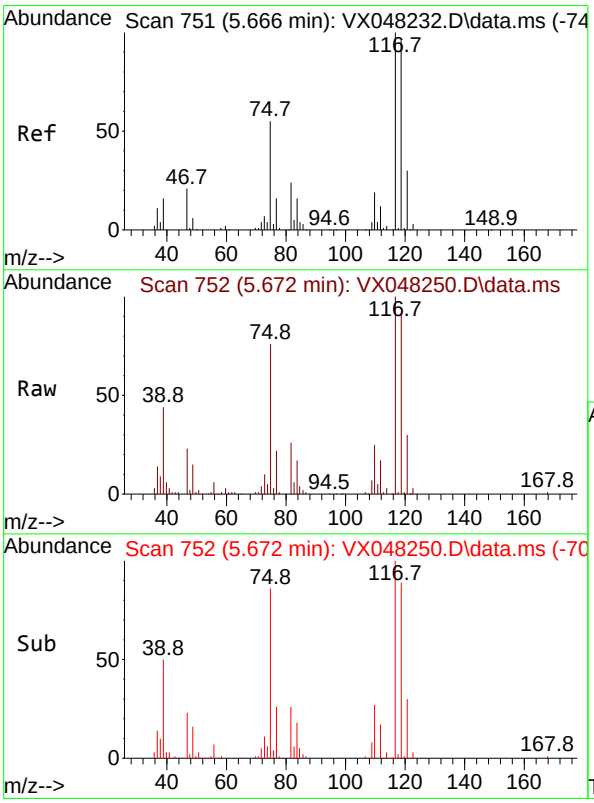
#37
Ethyl Acetate
Concen: 40.173 ug/l
RT: 4.702 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 76900

Ion	Ratio	Lower	Upper
43	100		
61	15.2	10.6	15.8
70	11.1	7.8	11.6

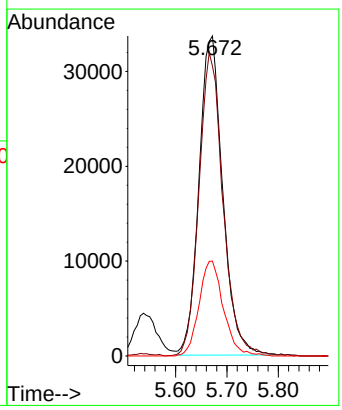


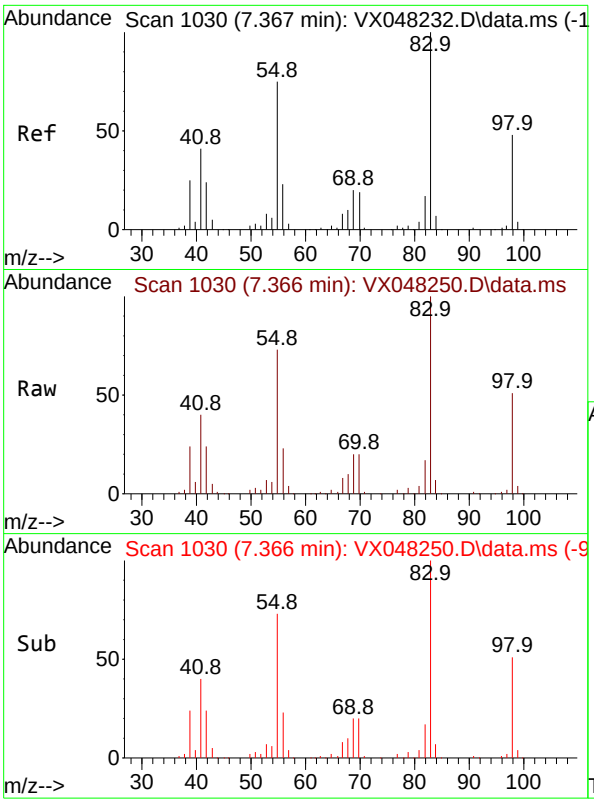


#38
Carbon Tetrachloride
Concen: 37.895 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:117 Resp: 107972

Ion	Ratio	Lower	Upper
117	100		
119	90.5	77.2	115.8
121	29.8	24.8	37.2



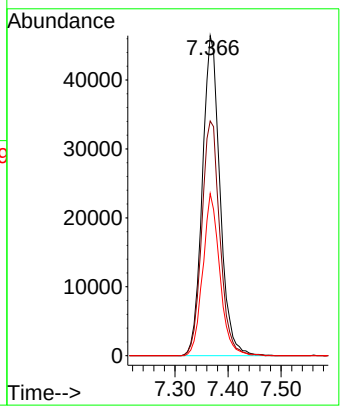


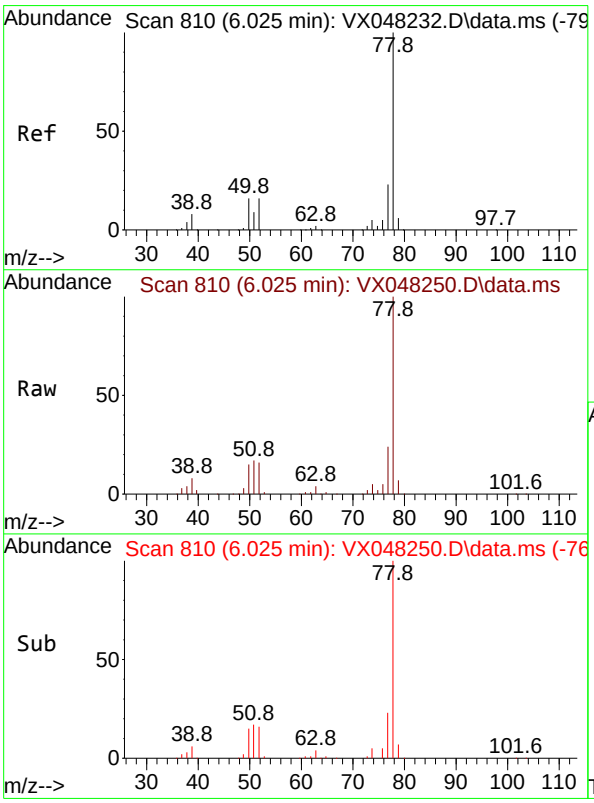
#39
Methylcyclohexane
Concen: 39.300 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 107188

Ion	Ratio	Lower	Upper
83	100		
55	73.3	66.2	99.2
98	50.7	38.9	58.3

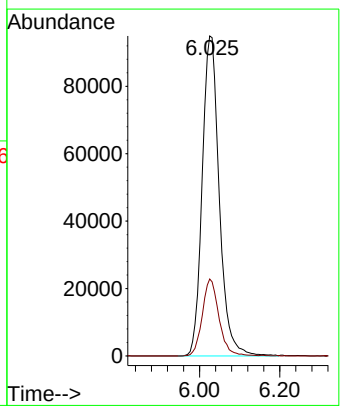


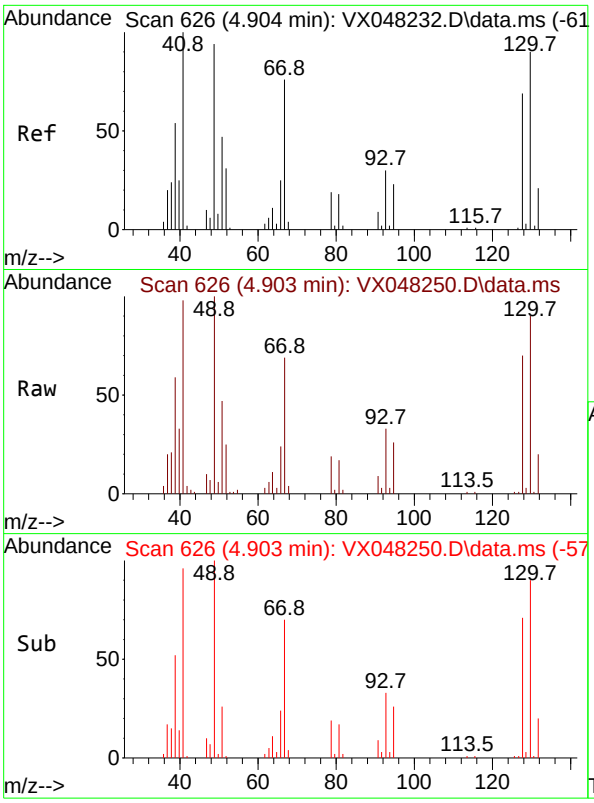


#40
Benzene
Concen: 41.821 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 78 Resp: 280412

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.3	28.9



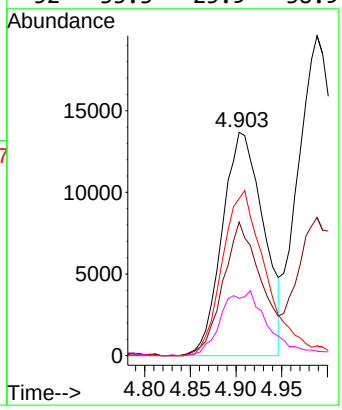


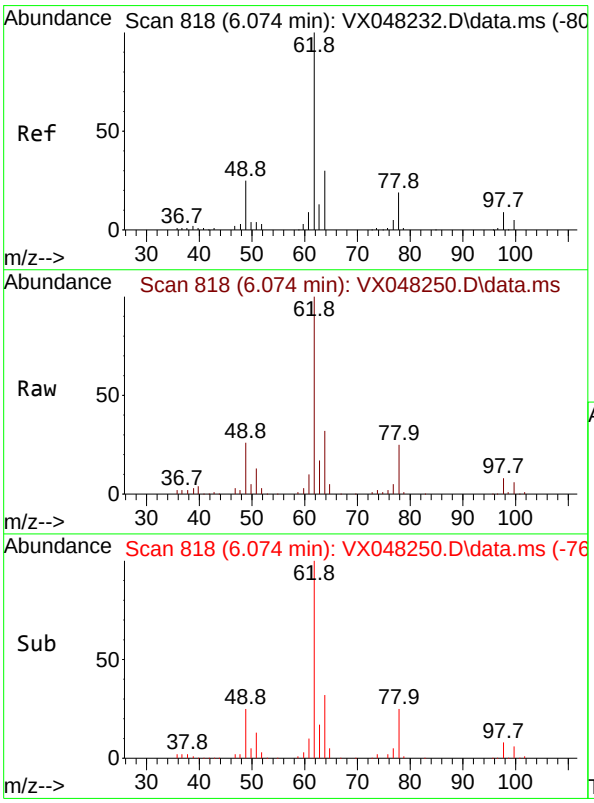
#41
Methacrylonitrile
Concen: 42.726 ug/l
RT: 4.903 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 42951

Ion	Ratio	Lower	Upper
41	100		
39	55.3	44.0	66.0
67	80.6	58.7	88.1
52	33.3	25.9	38.9

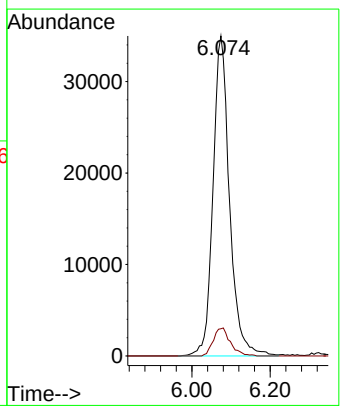


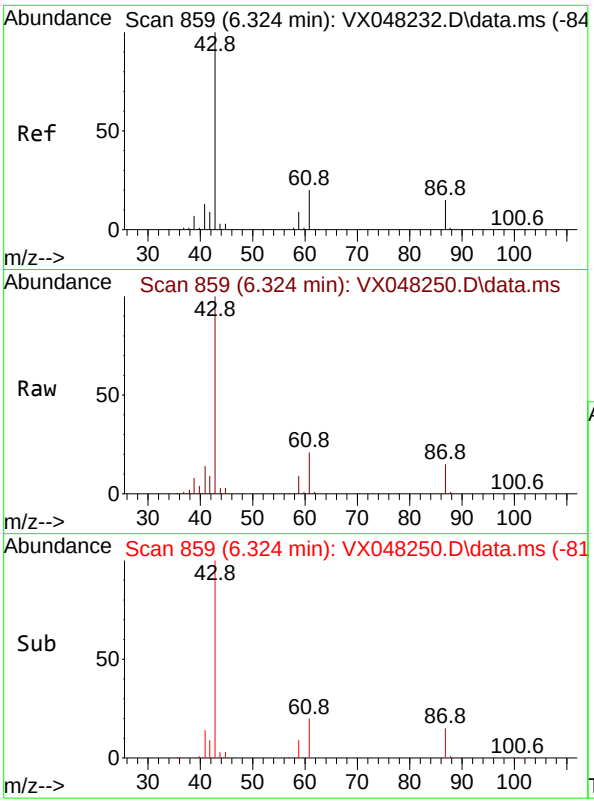


#42
1,2-Dichloroethane
Concen: 41.460 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 62 Resp: 102580

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	17.2



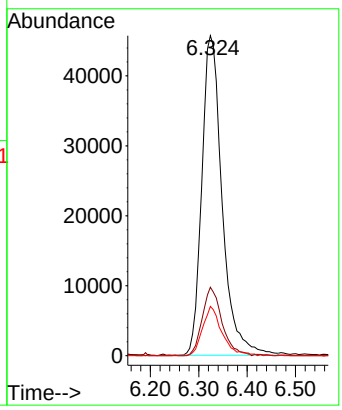


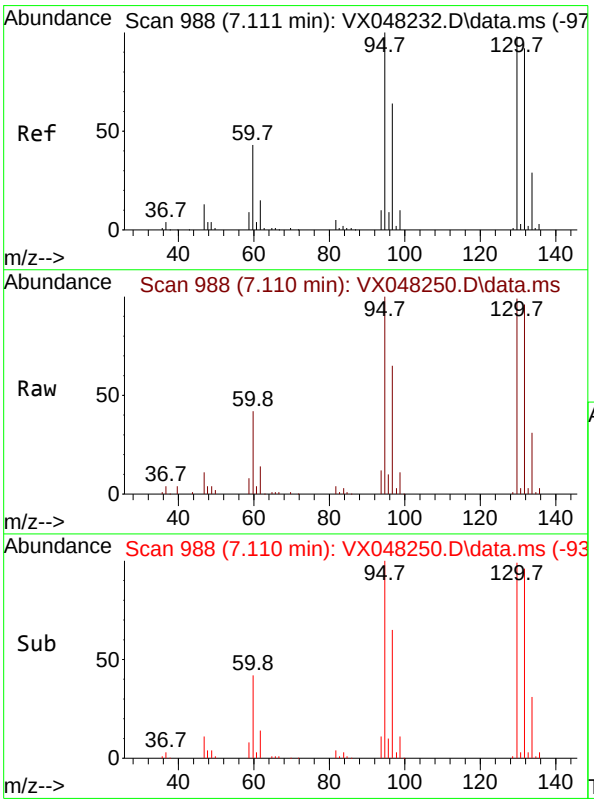
#43
Isopropyl Acetate
Concen: 42.401 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 133321

Ion	Ratio	Lower	Upper
43	100		
61	20.7	14.9	22.3
87	14.7	9.4	14.2#

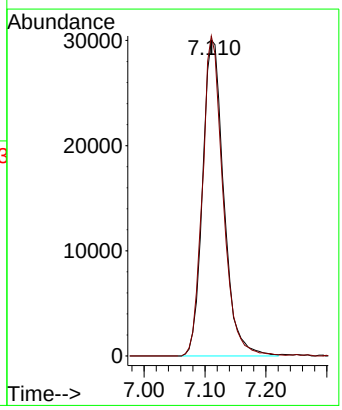


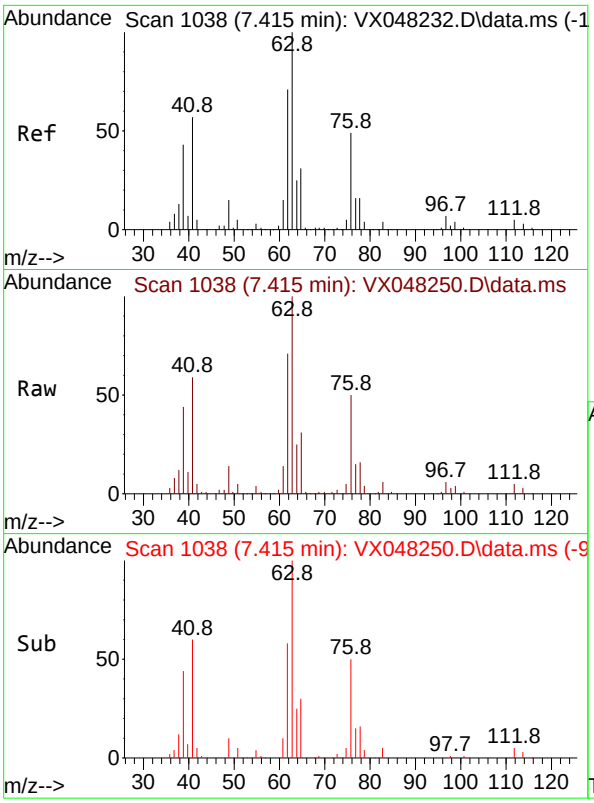


#44
Trichloroethene
Concen: 41.075 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:130 Resp: 72723

Ion	Ratio	Lower	Upper
130	100		
95	110.9	0.0	200.6



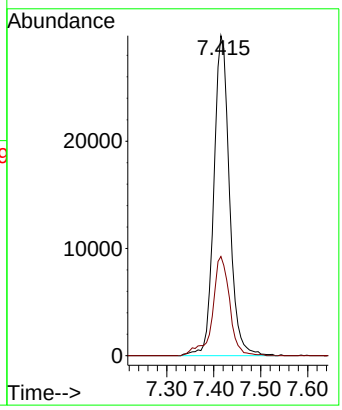


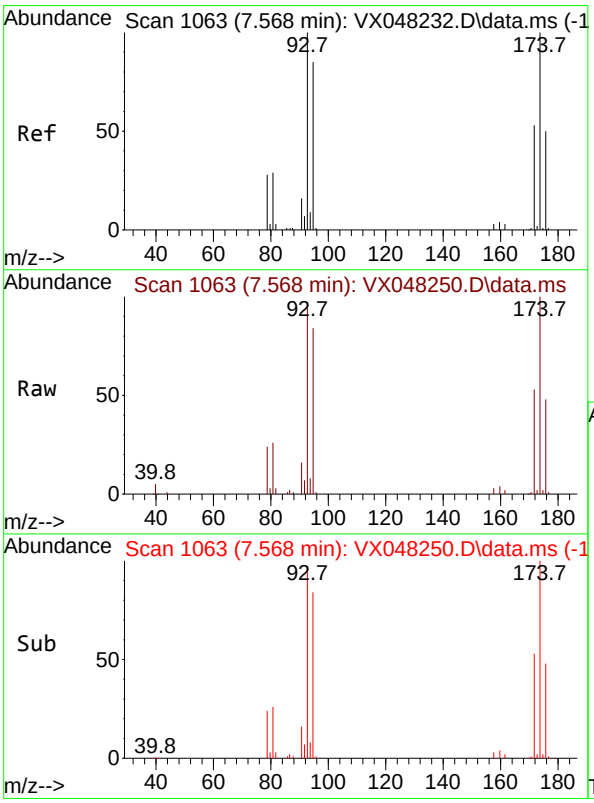
#45
1,2-Dichloropropane
Concen: 43.200 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 68867

Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.1	36.1

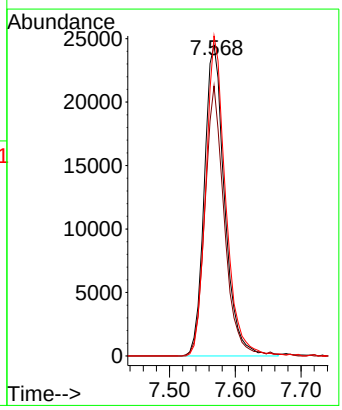


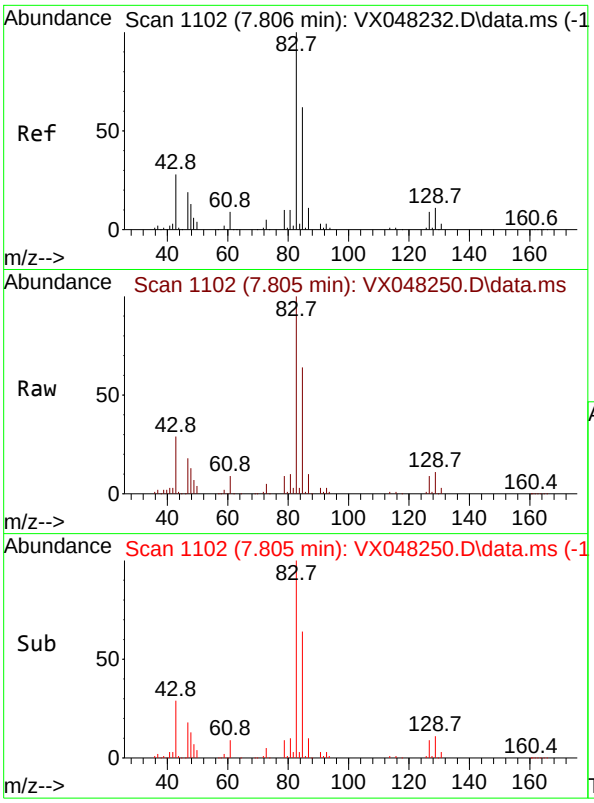


#46
Dibromomethane
Concen: 42.277 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 93 Resp: 52507

Ion	Ratio	Lower	Upper
93	100		
95	82.7	65.9	98.9
174	100.2	71.7	107.5



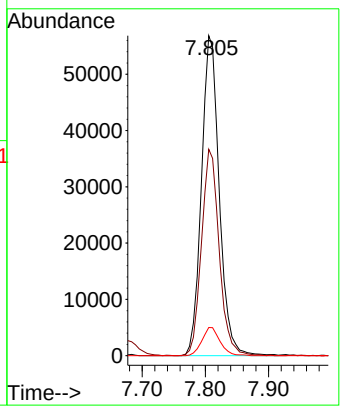


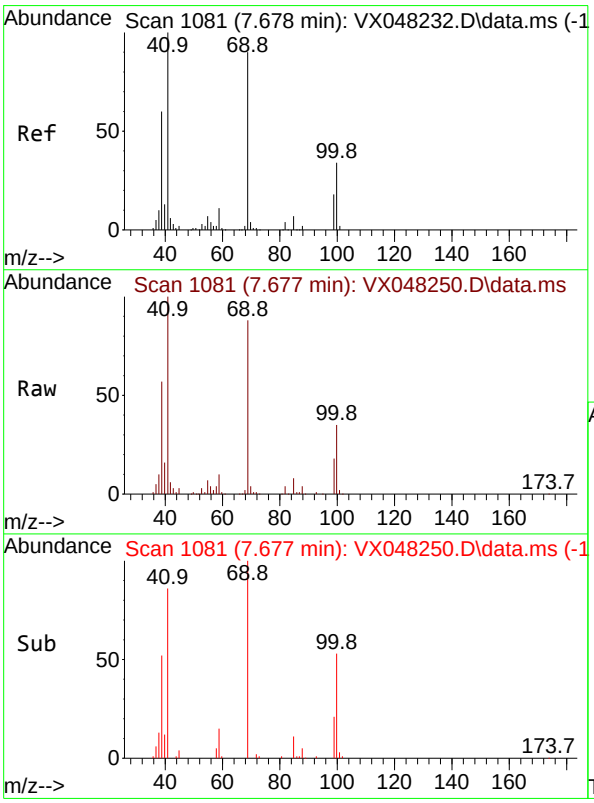
#47
Bromodichloromethane
Concen: 41.521 ug/l
RT: 7.805 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 111343

Ion	Ratio	Lower	Upper
83	100		
85	64.5	52.2	78.4
127	8.8	7.3	10.9

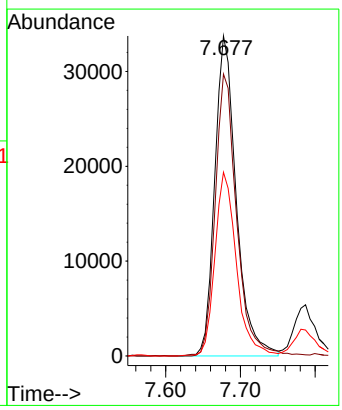


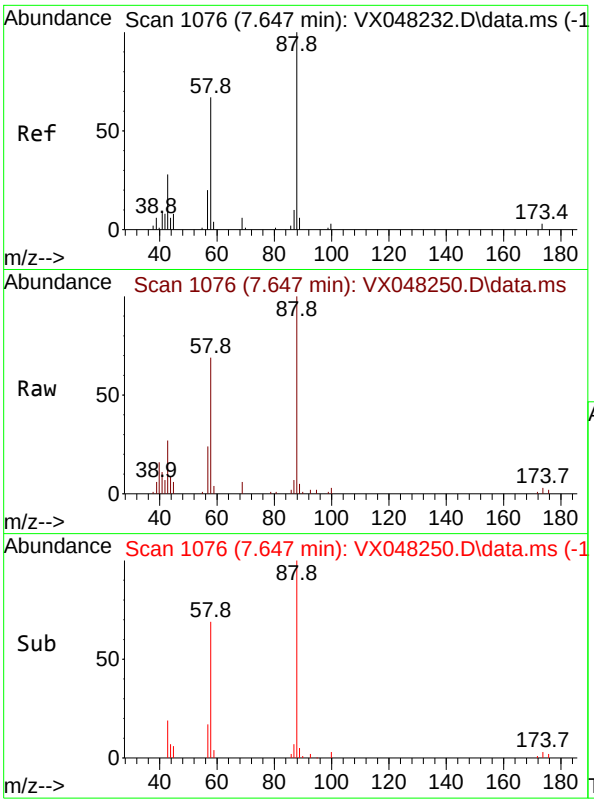


#48
Methyl methacrylate
Concen: 42.595 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 41 Resp: 67583

Ion	Ratio	Lower	Upper
41	100		
69	87.8	63.4	95.0
39	57.3	47.1	70.7



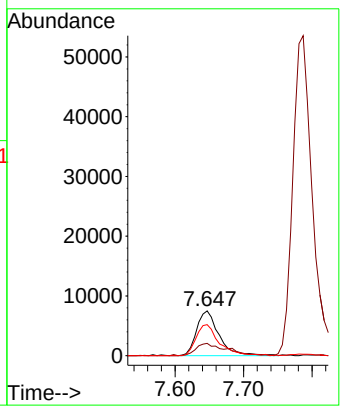


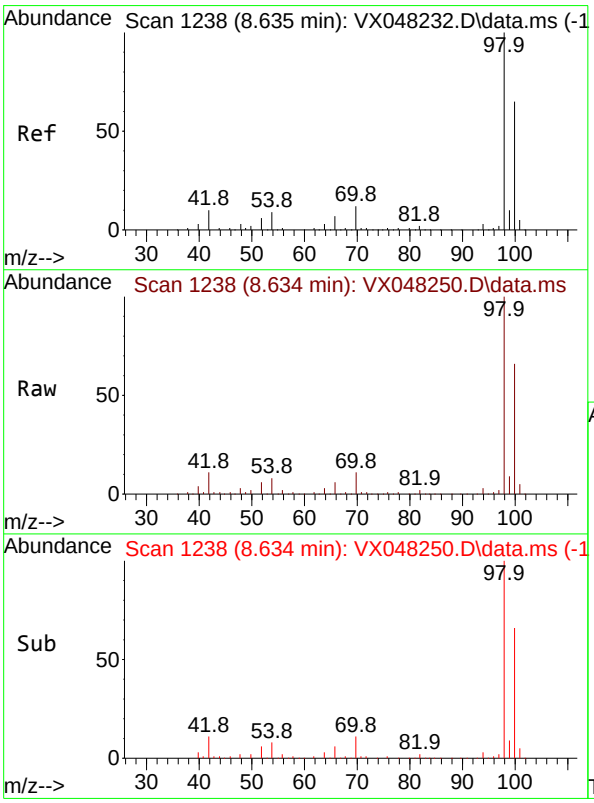
#49
1,4-Dioxane
Concen: 807.374 ug/l
RT: 7.647 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 16924

Ion	Ratio	Lower	Upper
88	100		
43	38.3	35.0	52.4
58	72.1	61.9	92.9

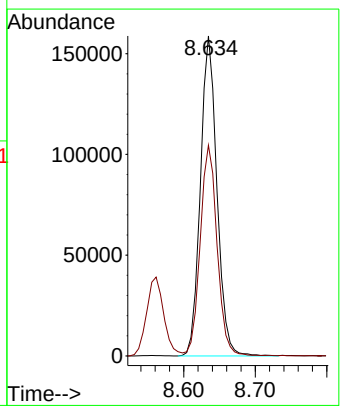


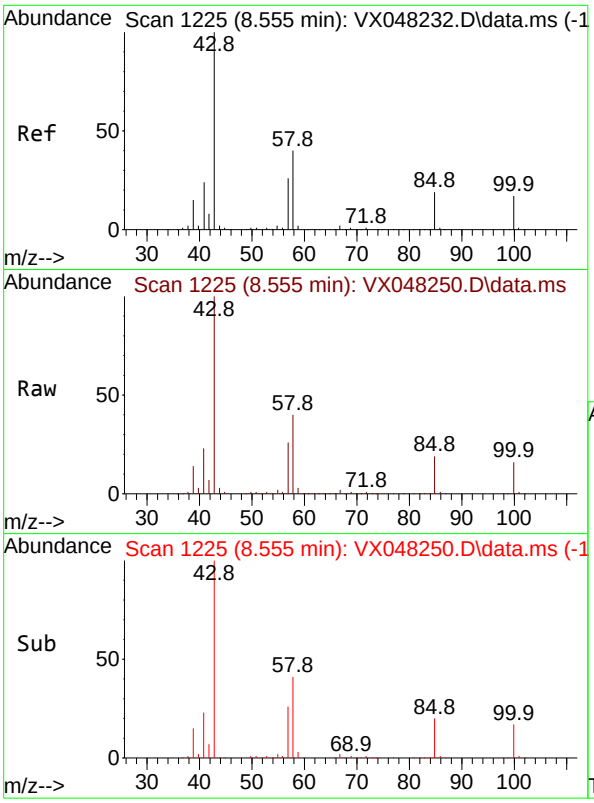


#50
Toluene-d8
Concen: 44.713 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 98 Resp: 254653

Ion	Ratio	Lower	Upper
98	100		
100	67.2	53.0	79.4



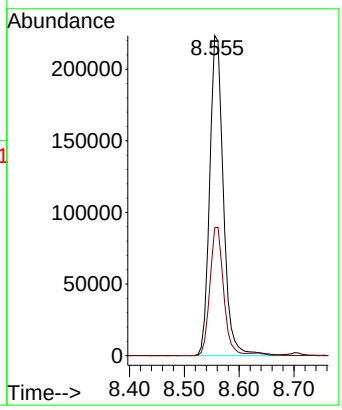


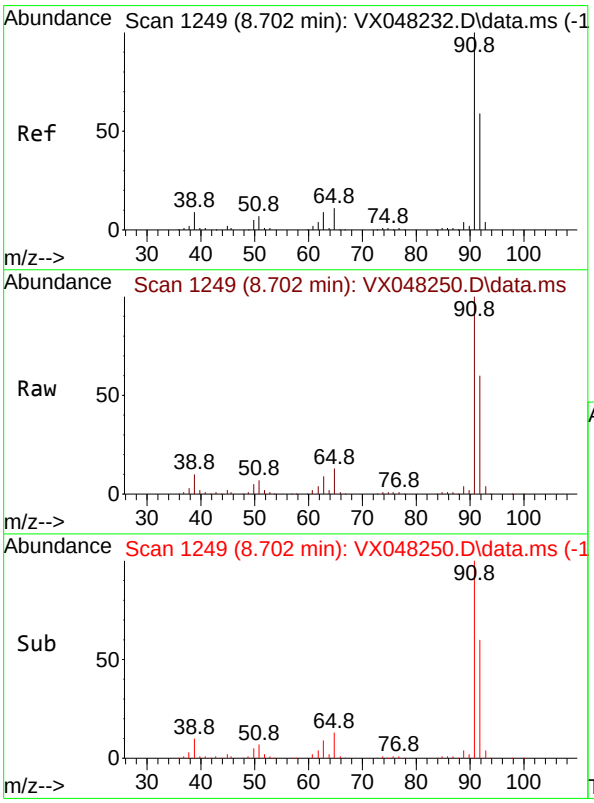
#51
4-Methyl-2-Pentanone
Concen: 213.772 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 387550

Ion	Ratio	Lower	Upper
43	100		
58	39.9	29.5	44.3

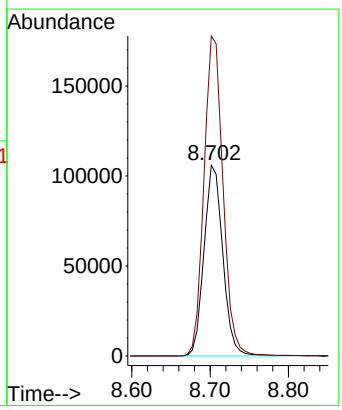


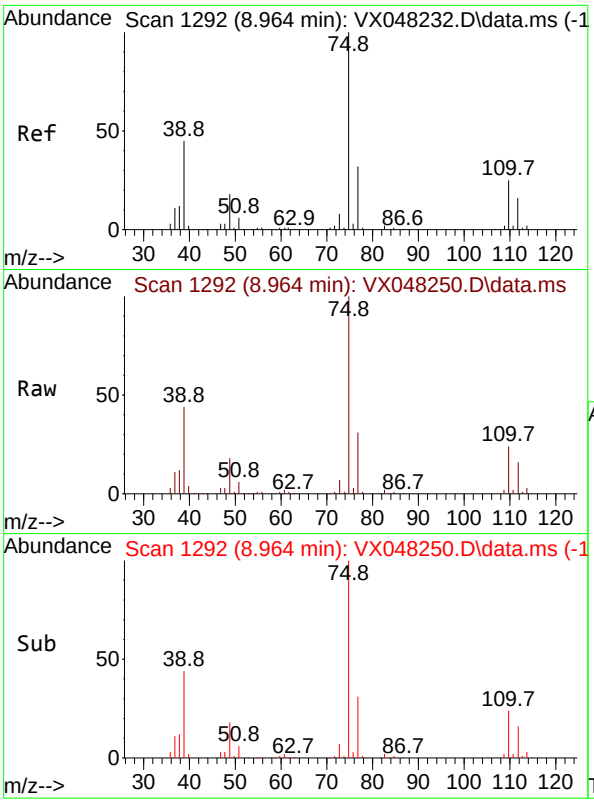


#52
Toluene
Concen: 41.403 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 92 Resp: 176360

Ion	Ratio	Lower	Upper
92	100		
91	170.2	136.1	204.1



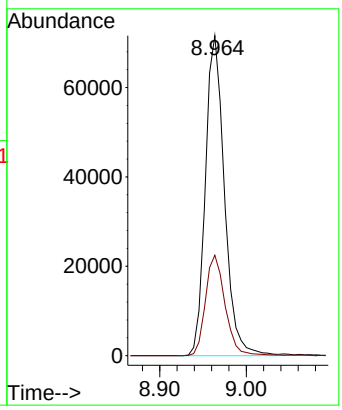


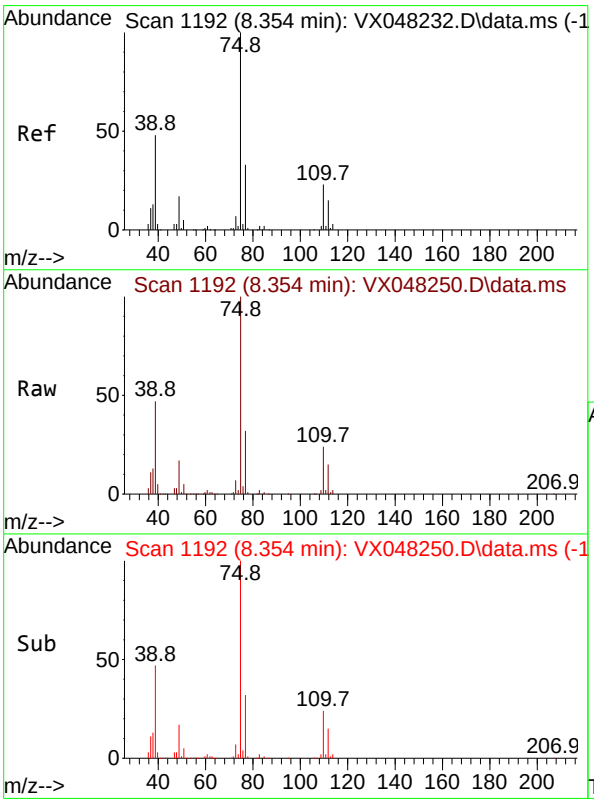
#53
t-1,3-Dichloropropene
Concen: 42.344 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 109424

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.0	37.6

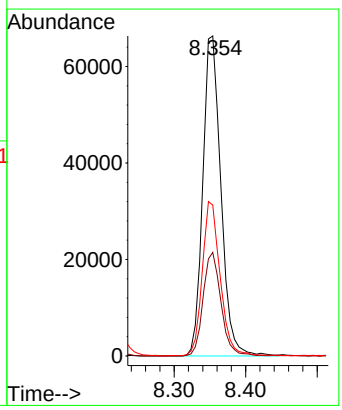


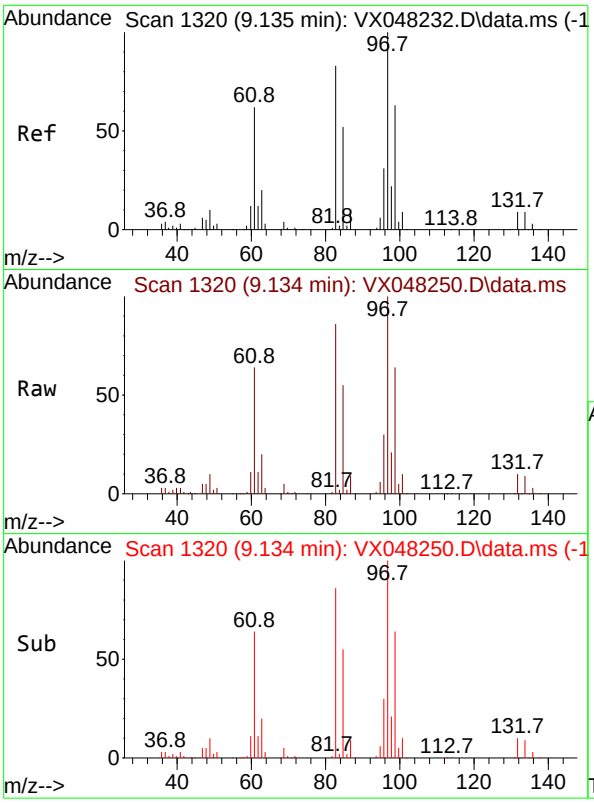


#54
cis-1,3-Dichloropropene
Concen: 41.966 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 75 Resp: 117004

Ion	Ratio	Lower	Upper
75	100		
77	32.4	24.9	37.3
39	47.0	42.6	64.0



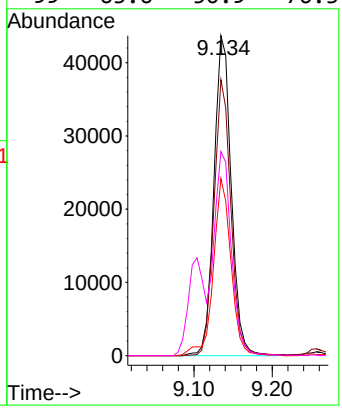


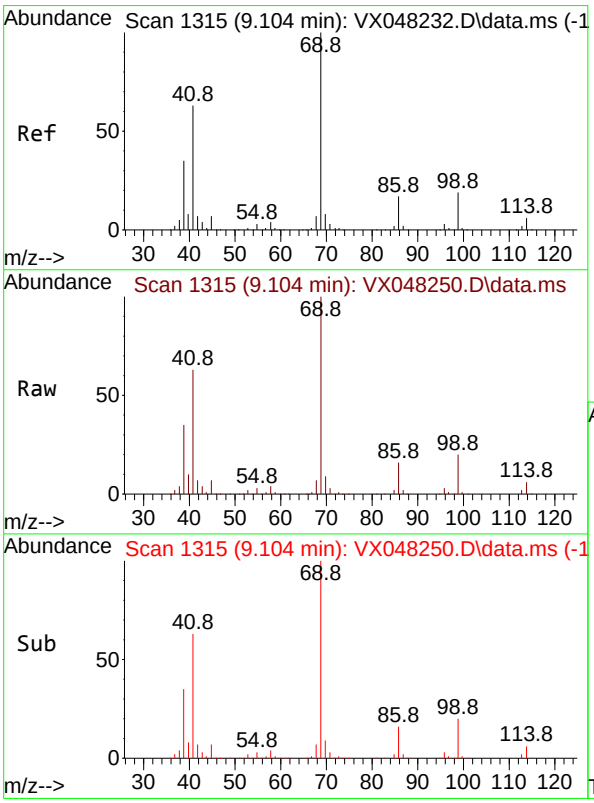
#55
1,1,2-Trichloroethane
Concen: 42.431 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 67214

Ion	Ratio	Lower	Upper
97	100		
83	86.2	70.6	105.8
85	55.3	45.0	67.6
99	63.6	50.9	76.3

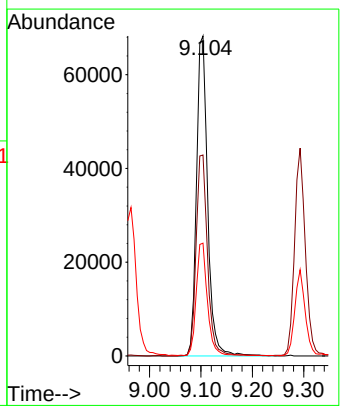


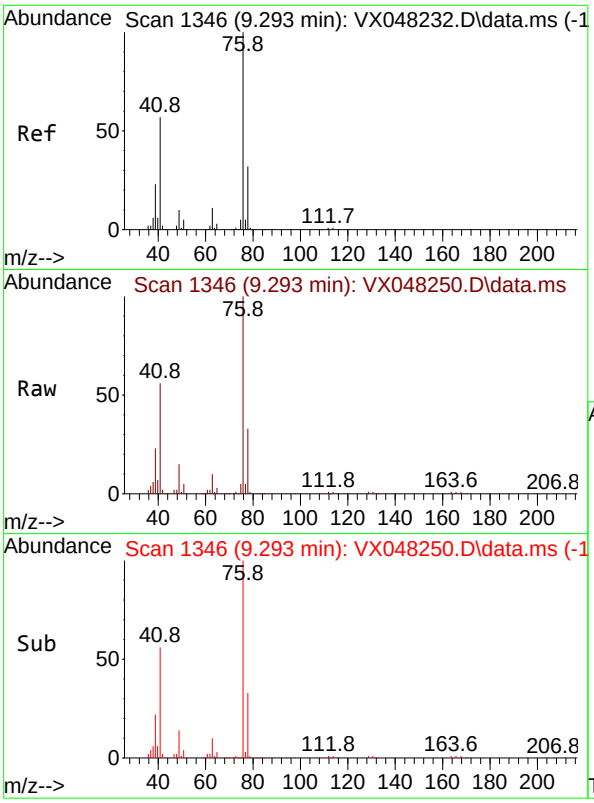


#56
Ethyl methacrylate
Concen: 44.462 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 69 Resp: 103017

Ion	Ratio	Lower	Upper
69	100		
41	64.3	56.0	84.0
39	35.5	31.6	47.4



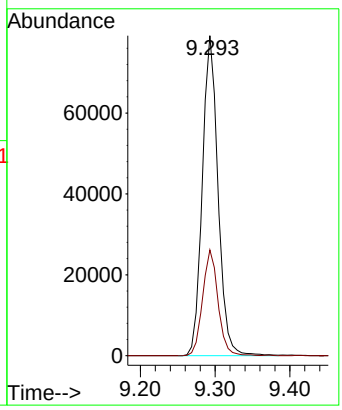


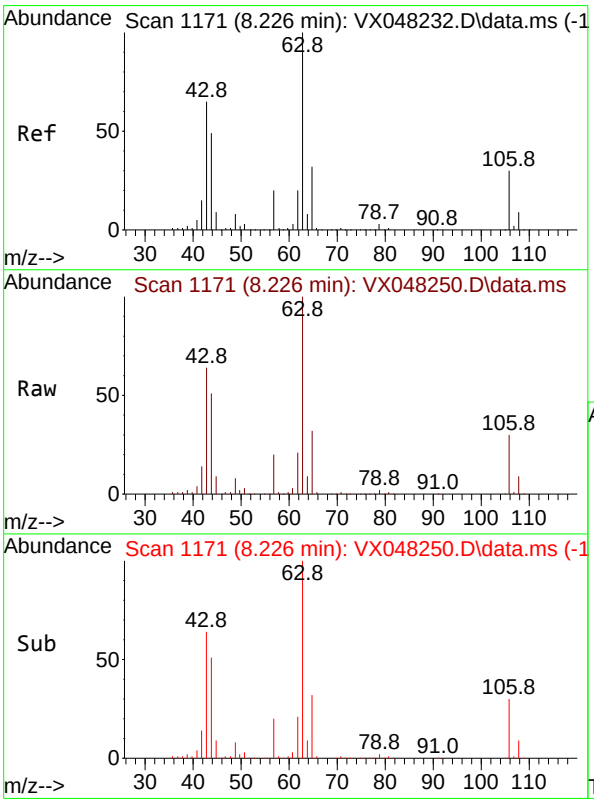
#57
1,3-Dichloropropane
Concen: 42.655 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 115414

Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.4	38.0

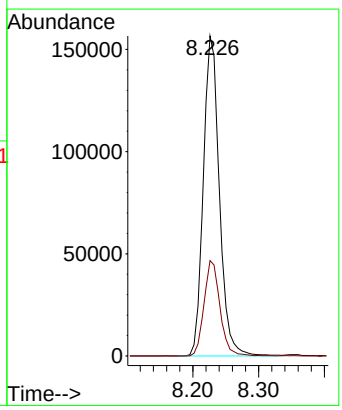


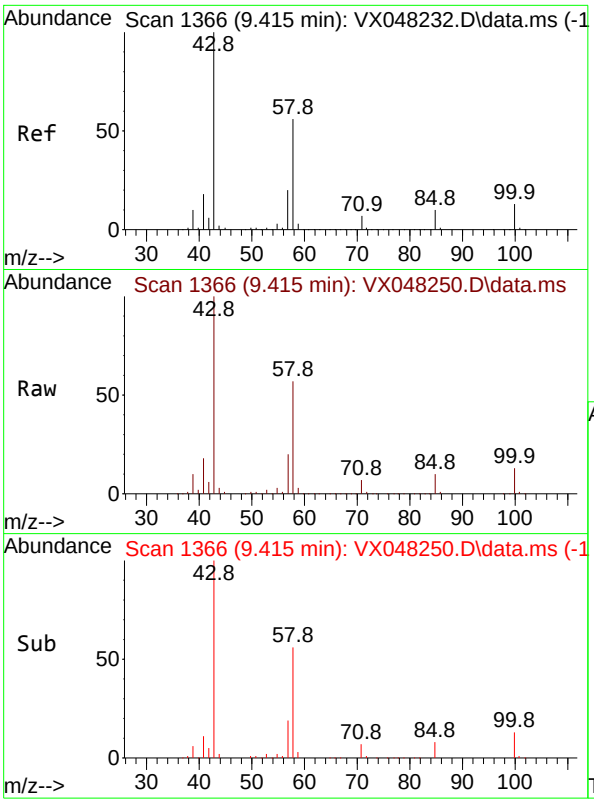


#58
2-Chloroethyl Vinyl ether
Concen: 213.796 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 63 Resp: 266044

Ion	Ratio	Lower	Upper
63	100		
106	29.6	22.2	33.2



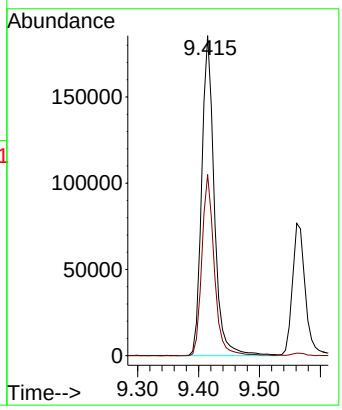


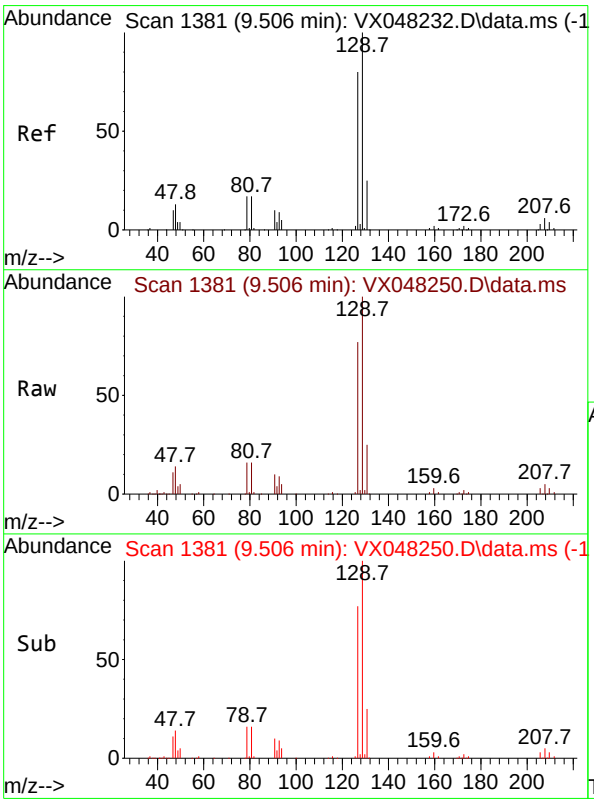
#59
2-Hexanone
Concen: 211.078 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 266829

Ion	Ratio	Lower	Upper
43	100		
58	55.8	26.3	78.8

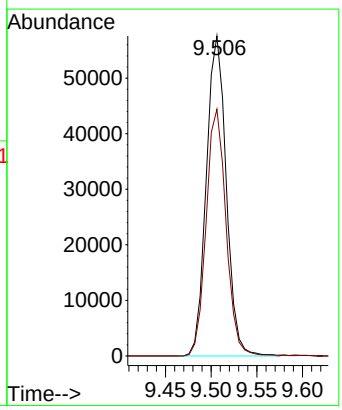


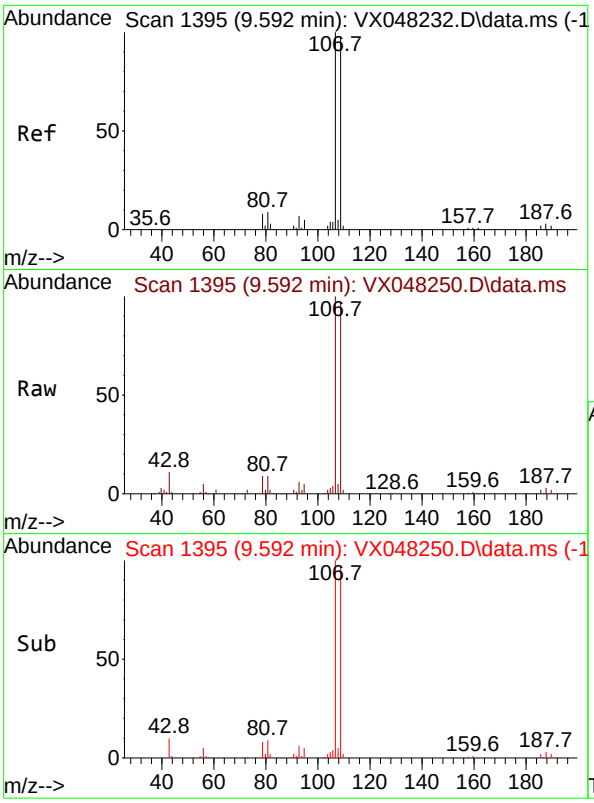


#60
Dibromochloromethane
Concen: 40.872 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:129 Resp: 87021

Ion	Ratio	Lower	Upper
129	100		
127	77.2	38.6	115.7



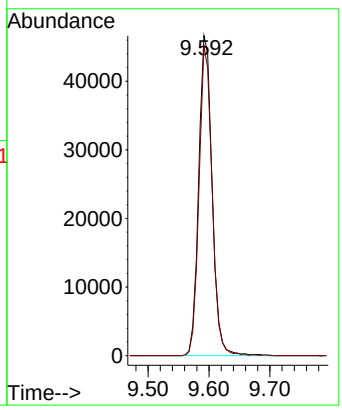


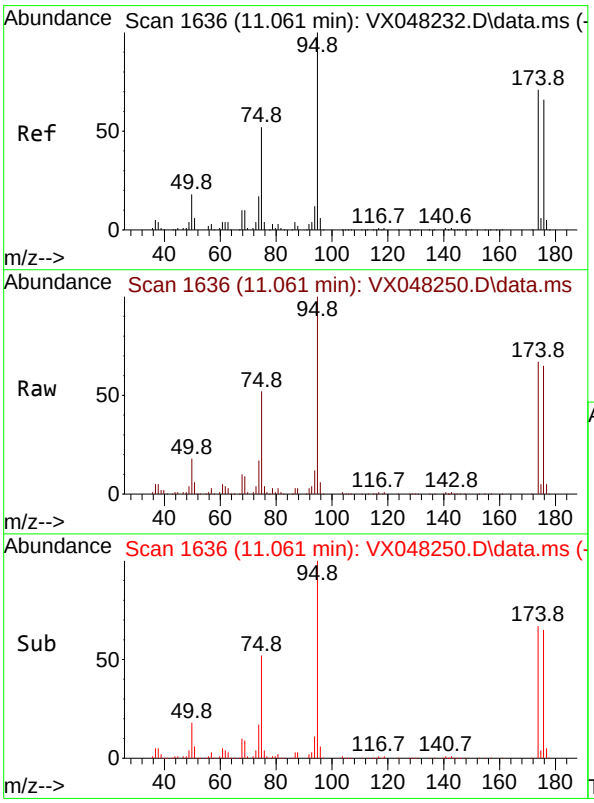
#61
1,2-Dibromoethane
Concen: 42.360 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 71534

Ion	Ratio	Lower	Upper
107	100		
109	94.6	77.0	115.4

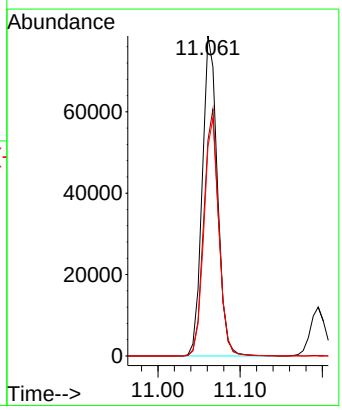


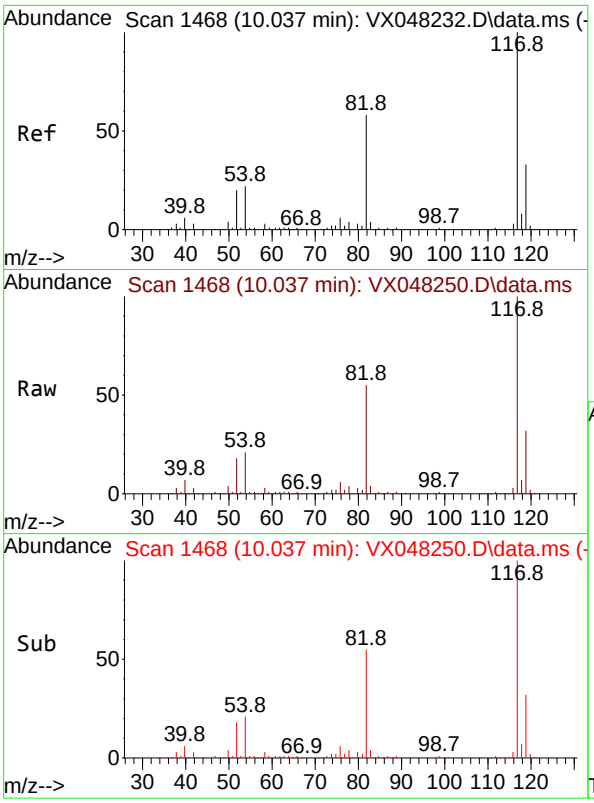


#62
4-Bromofluorobenzene
Concen: 46.587 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 95 Resp: 100937

Ion	Ratio	Lower	Upper
95	100		
174	75.9	0.0	147.8
176	73.3	0.0	142.8



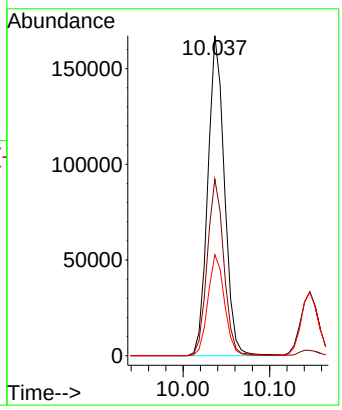


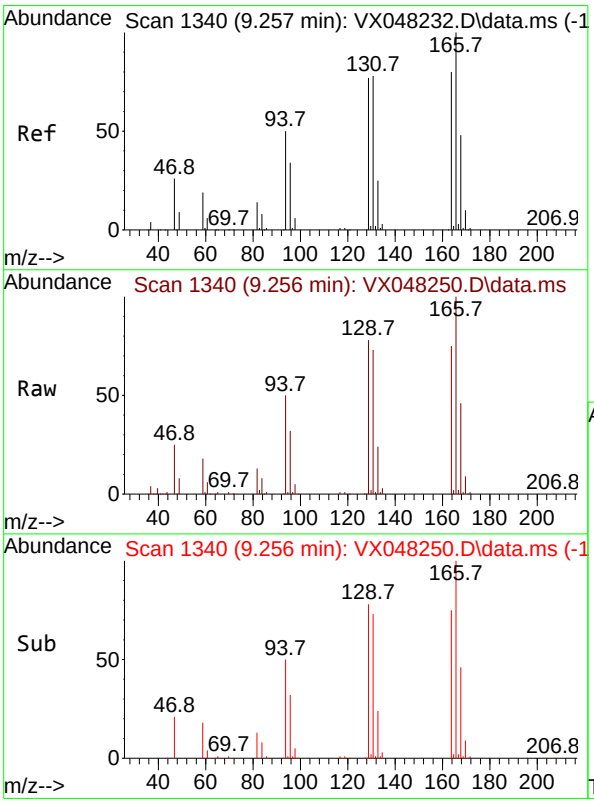
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 222585

Ion	Ratio	Lower	Upper
117	100		
82	55.2	46.5	69.7
119	31.5	25.9	38.9

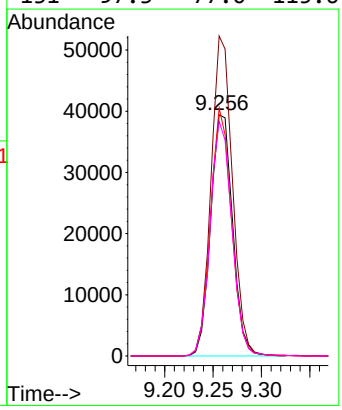


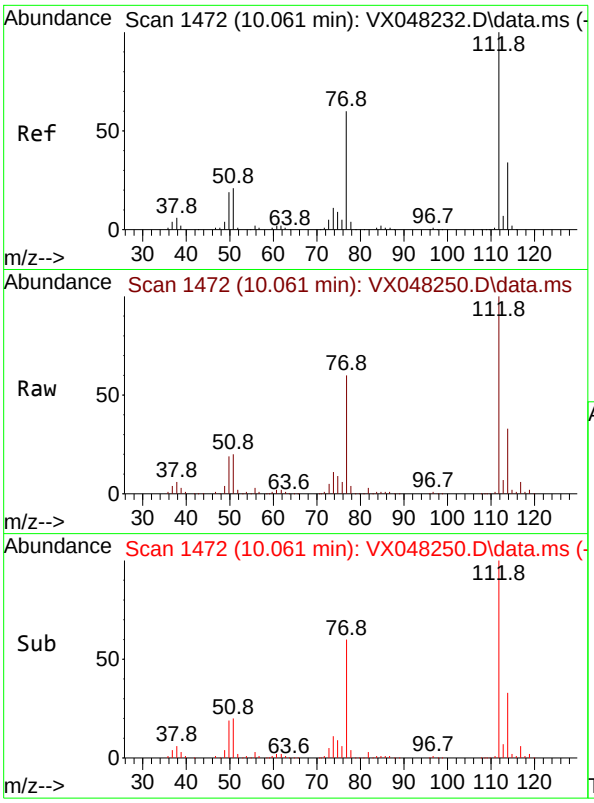


#64
Tetrachloroethene
Concen: 37.463 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:164 Resp: 62251

Ion	Ratio	Lower	Upper
164	100		
166	132.7	104.5	156.7
129	102.9	81.8	122.6
131	97.3	77.0	115.6



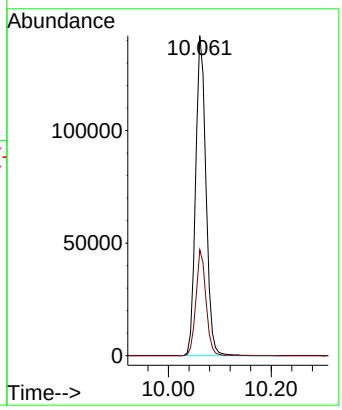


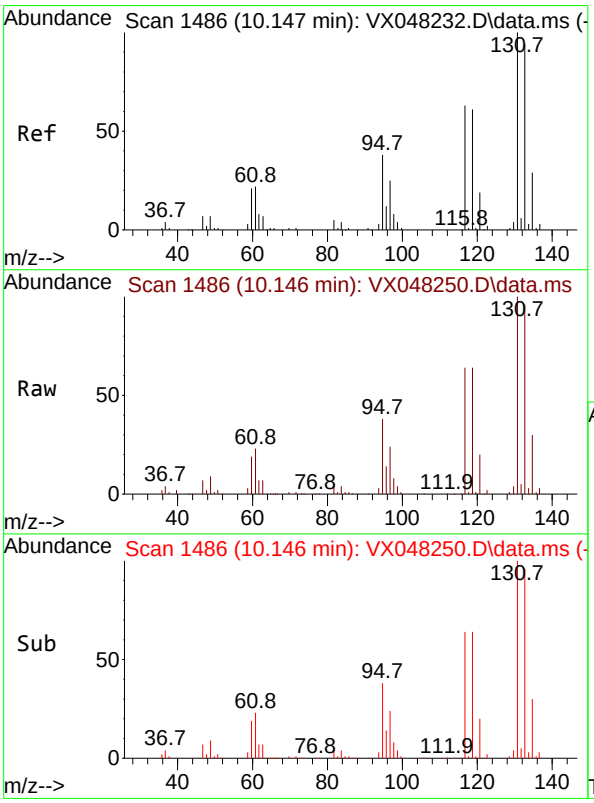
#65
Chlorobenzene
Concen: 39.787 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 199218

Ion	Ratio	Lower	Upper
112	100		
114	33.1	26.2	39.2

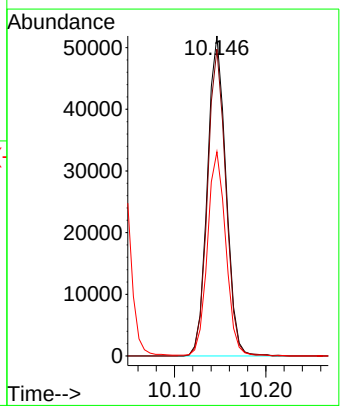


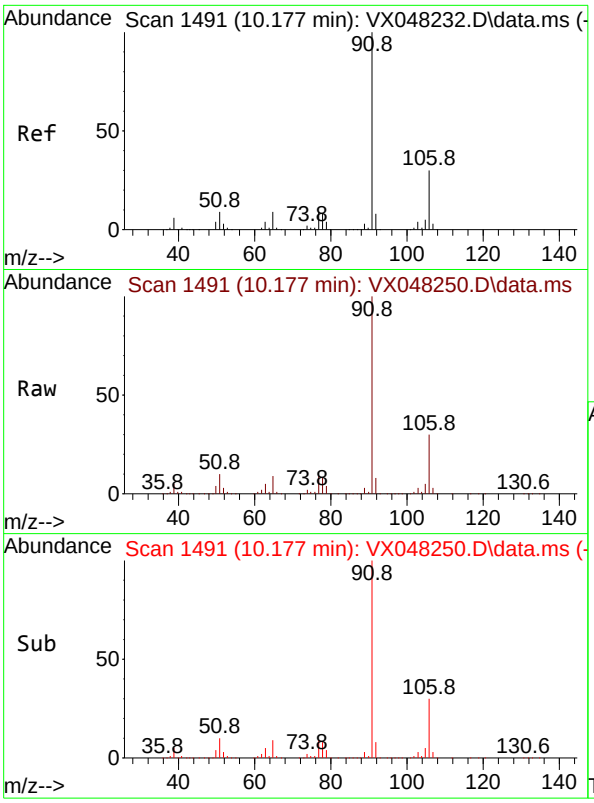


#66
1,1,1,2-Tetrachloroethane
Concen: 39.651 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:131 Resp: 72921

Ion	Ratio	Lower	Upper
131	100		
133	94.8	47.6	142.8
119	63.1	32.5	97.5



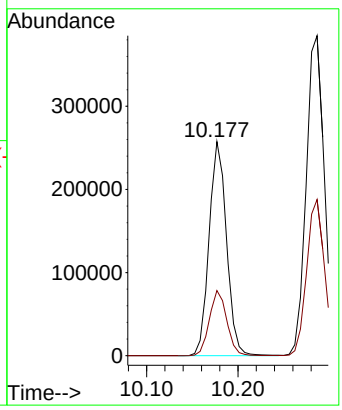


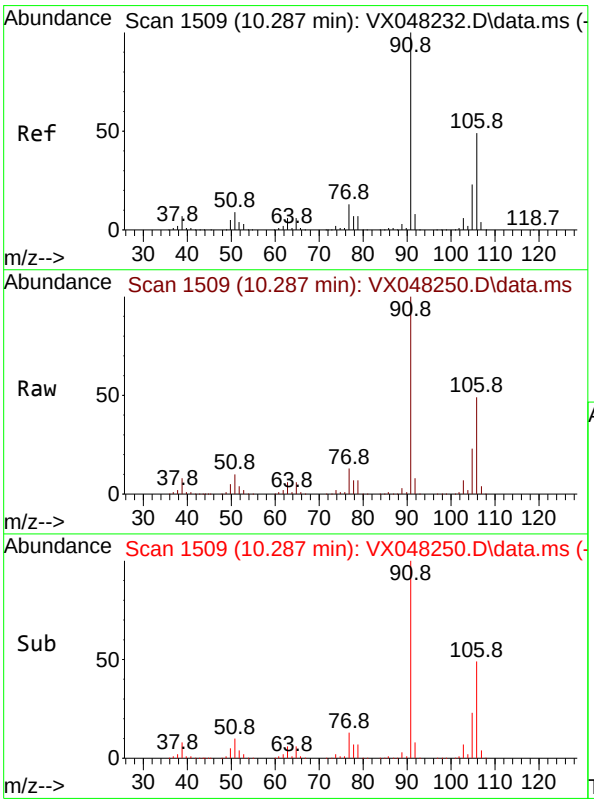
#67
Ethyl Benzene
Concen: 39.962 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 340670

Ion	Ratio	Lower	Upper
91	100		
106	30.4	23.8	35.6

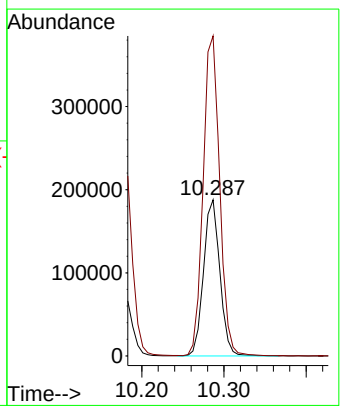


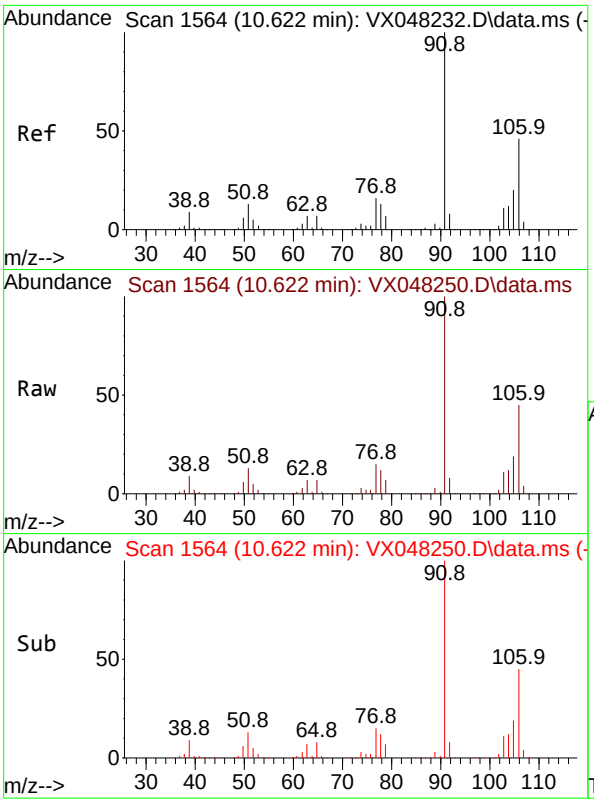


#68
m/p-Xylenes
Concen: 81.737 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:106 Resp: 258895

Ion	Ratio	Lower	Upper
106	100		
91	207.8	167.9	251.9



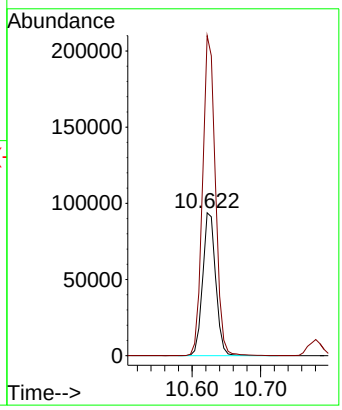


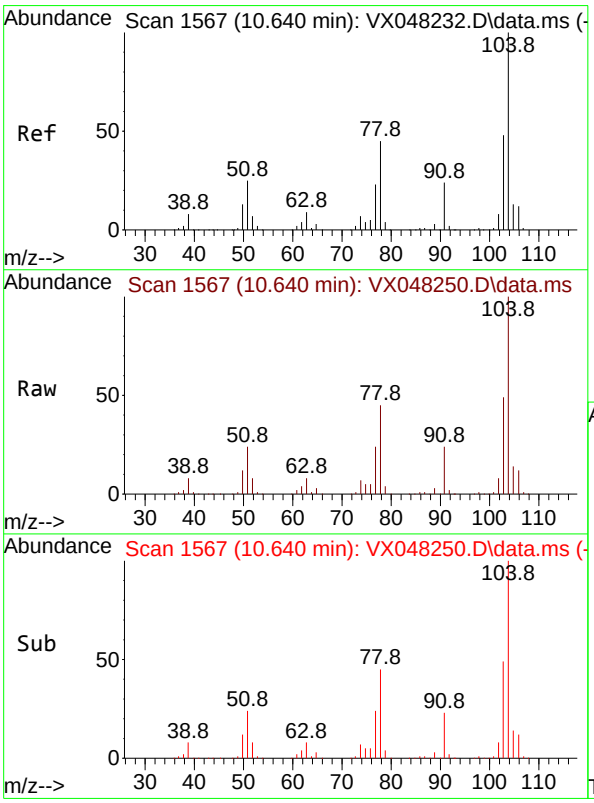
#69
o-Xylene
Concen: 40.619 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 124210

Ion	Ratio	Lower	Upper
106	100		
91	220.3	111.3	333.9

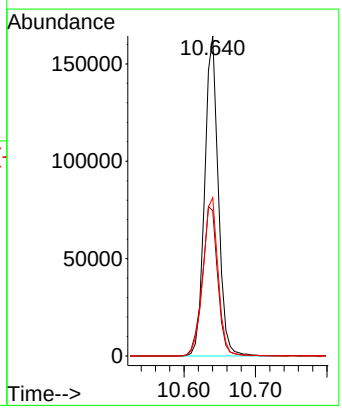


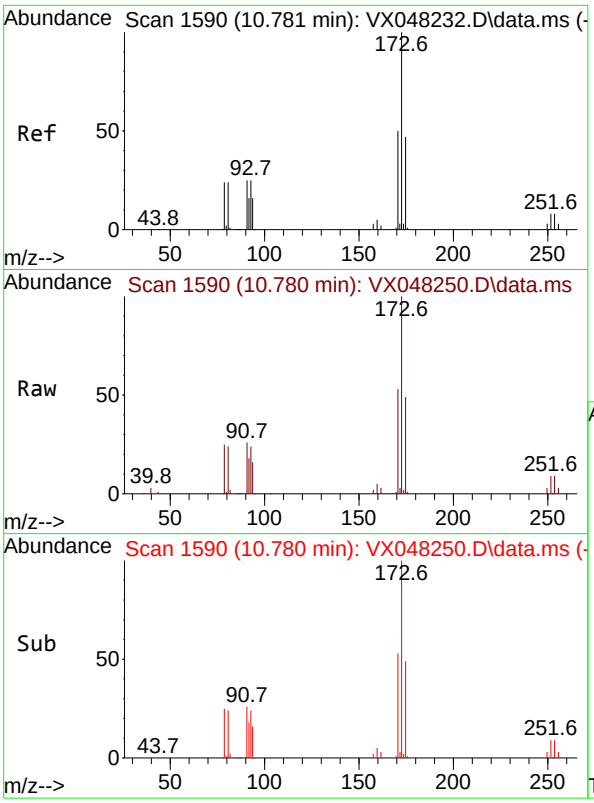


#70
Styrene
Concen: 41.732 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:104 Resp: 217296

Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.2	63.4
103	54.7	43.0	64.4



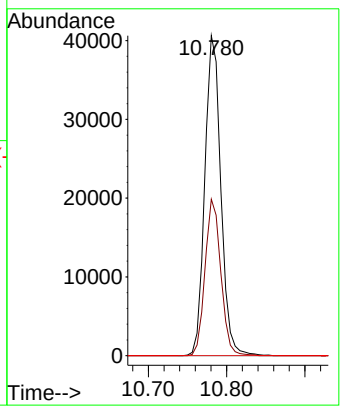


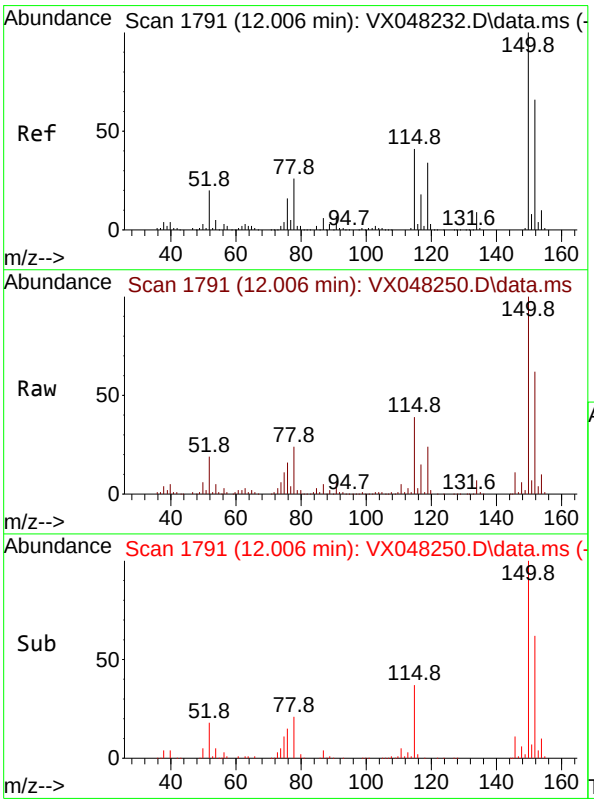
#71
Bromoform
Concen: 39.184 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 57595

Ion	Ratio	Lower	Upper
173	100		
175	48.1	24.0	72.0
254	0.0	0.0	0.0

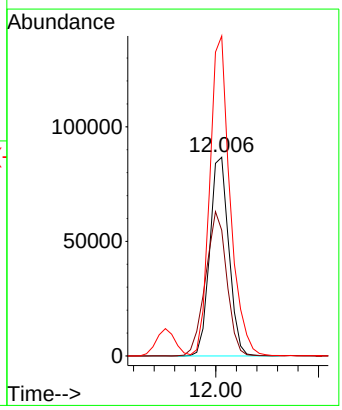


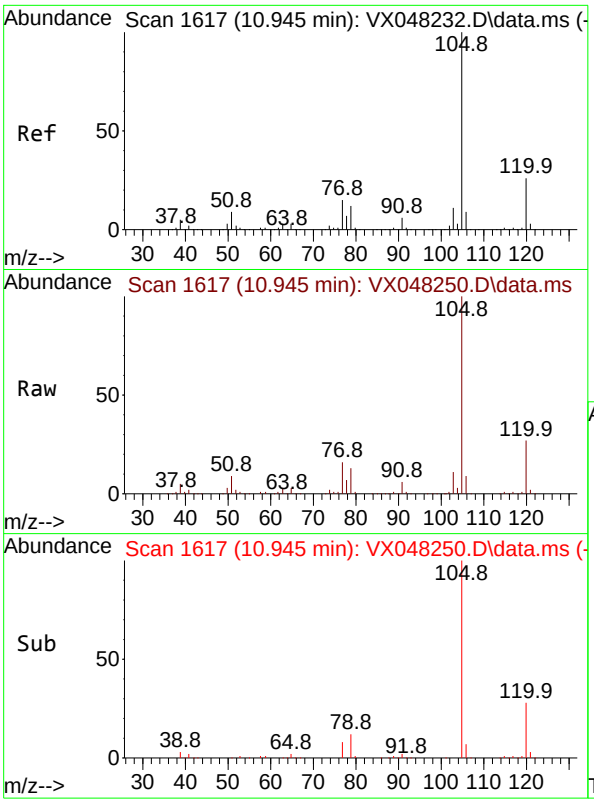


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:152 Resp: 111726

Ion	Ratio	Lower	Upper
152	100		
115	80.8	43.1	129.4
150	171.0	0.0	353.0



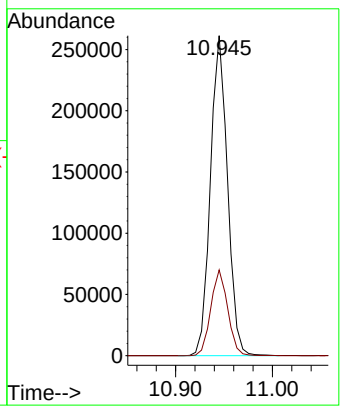


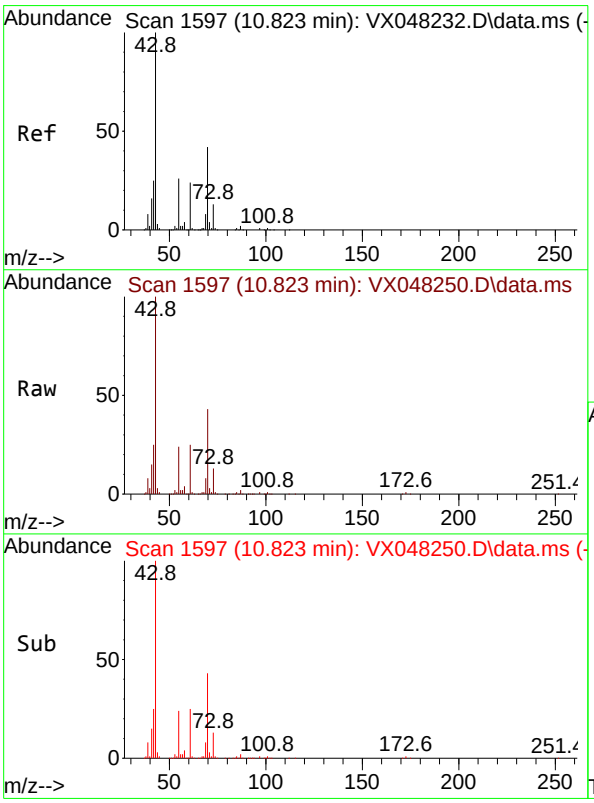
#73
Isopropylbenzene
Concen: 39.266 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 320429

Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.0	38.9

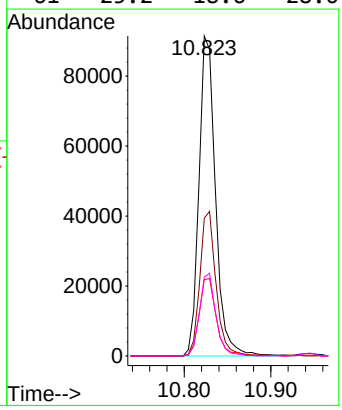


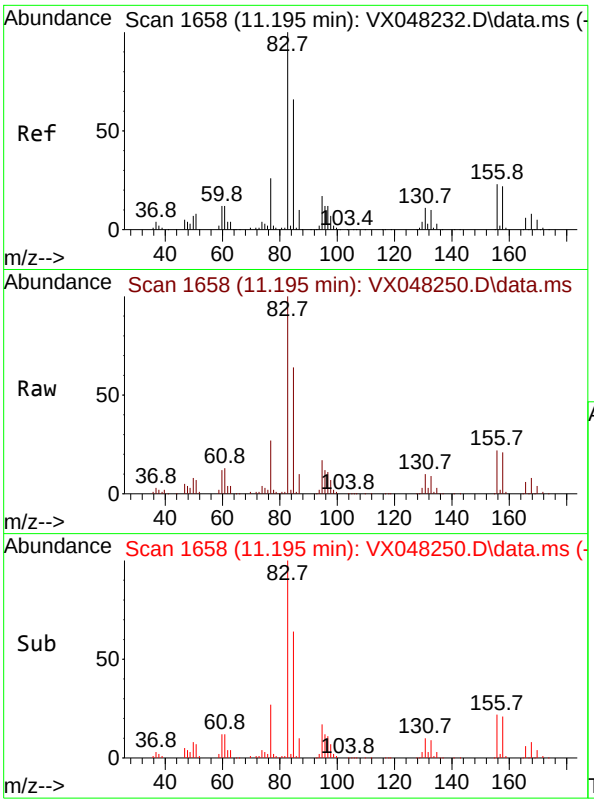


#74
N-amyl acetate
Concen: 41.983 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 43 Resp: 121526

Ion	Ratio	Lower	Upper
43	100		
70	44.5	32.2	48.2
55	25.2	19.1	28.7
61	25.2	18.6	28.0



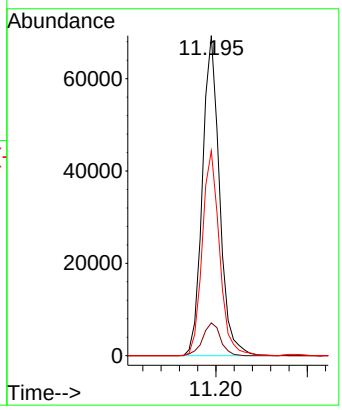


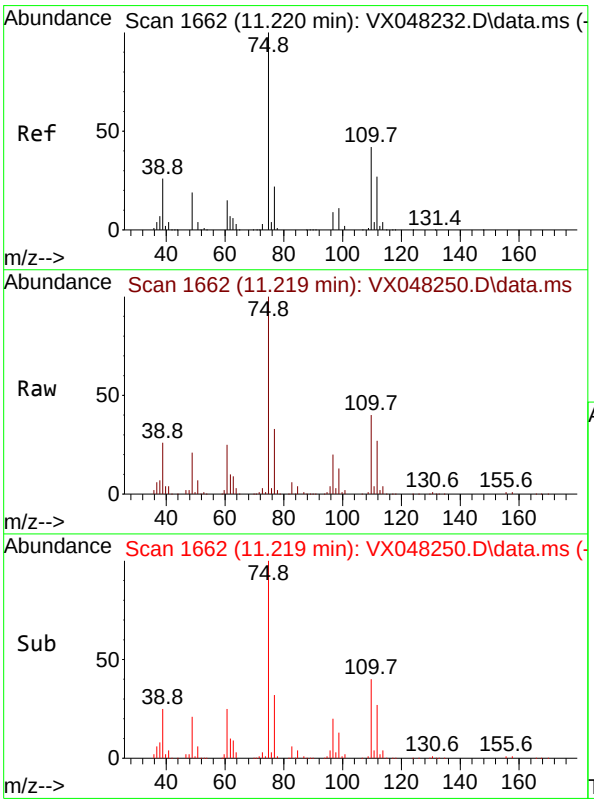
#75
1,1,2,2-Tetrachloroethane
Concen: 40.326 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 89867

Ion	Ratio	Lower	Upper
83	100		
131	10.8	4.8	14.4
85	64.6	31.9	95.7

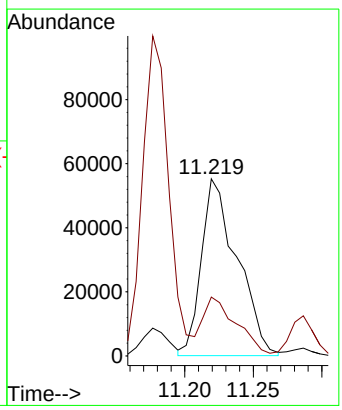


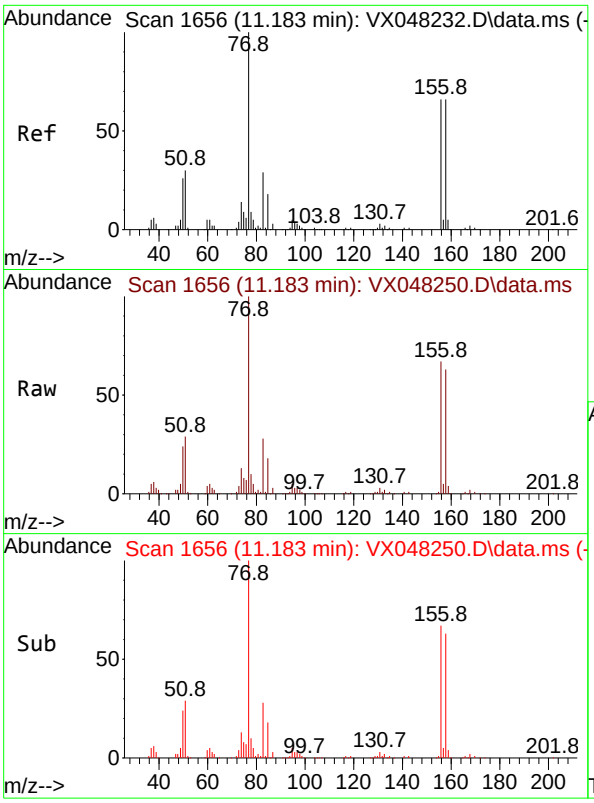


#76
1,2,3-Trichloropropane
Concen: 55.286 ug/l
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 75 Resp: 100169

Ion	Ratio	Lower	Upper
75	100		
77	30.7	22.4	67.2



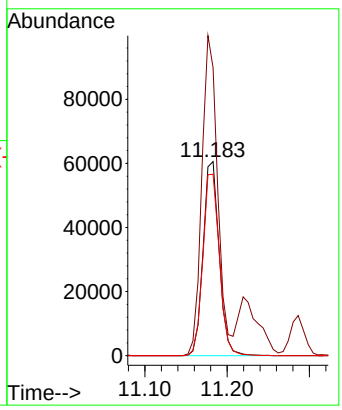


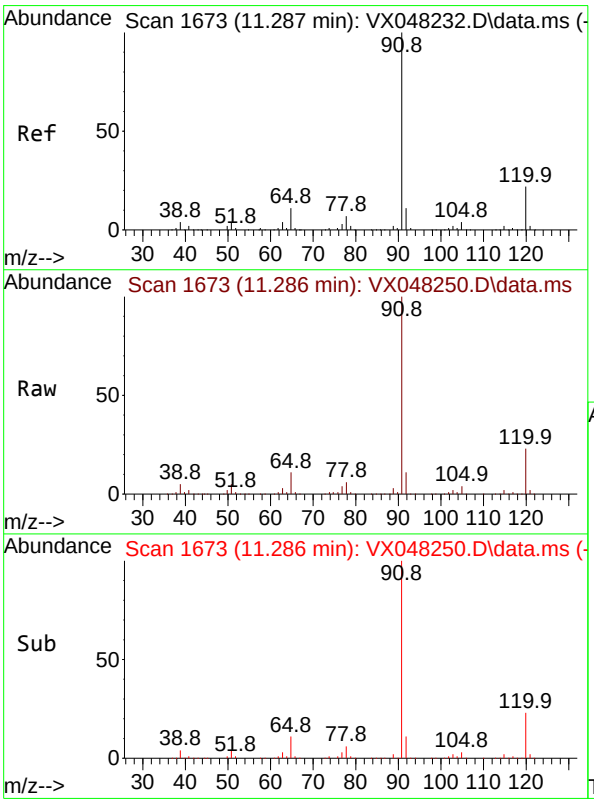
#77
Bromobenzene
Concen: 40.142 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 82137

Ion	Ratio	Lower	Upper
156	100		
77	162.9	87.0	261.0
158	96.3	47.8	143.4

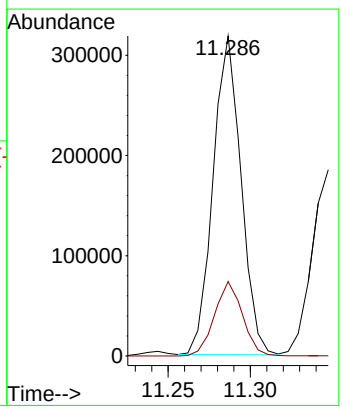


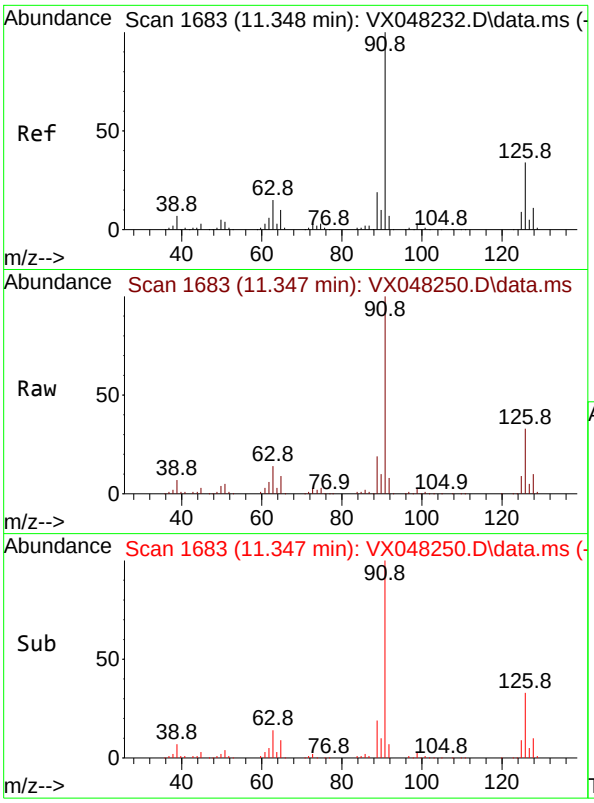


#78
n-propylbenzene
Concen: 39.766 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 91 Resp: 375729

Ion	Ratio	Lower	Upper
91	100		
120	23.4	11.1	33.1



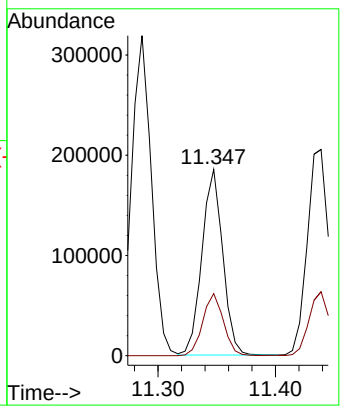


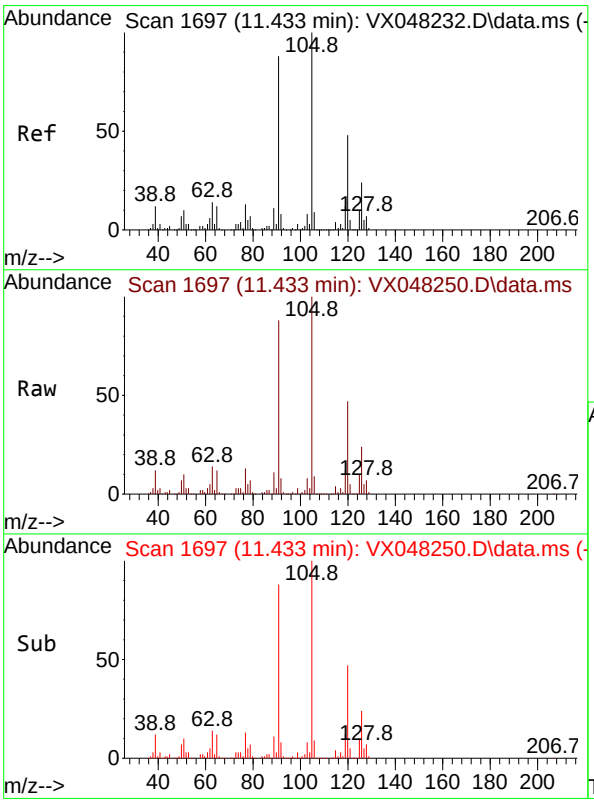
#79
2-Chlorotoluene
Concen: 39.772 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 227832

Ion	Ratio	Lower	Upper
91	100		
126	33.4	16.4	49.4

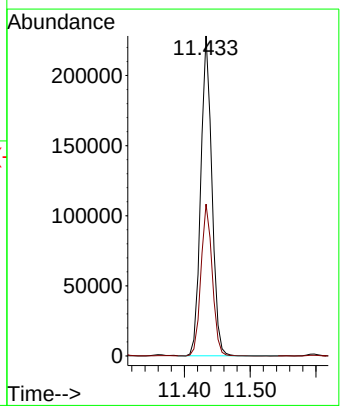


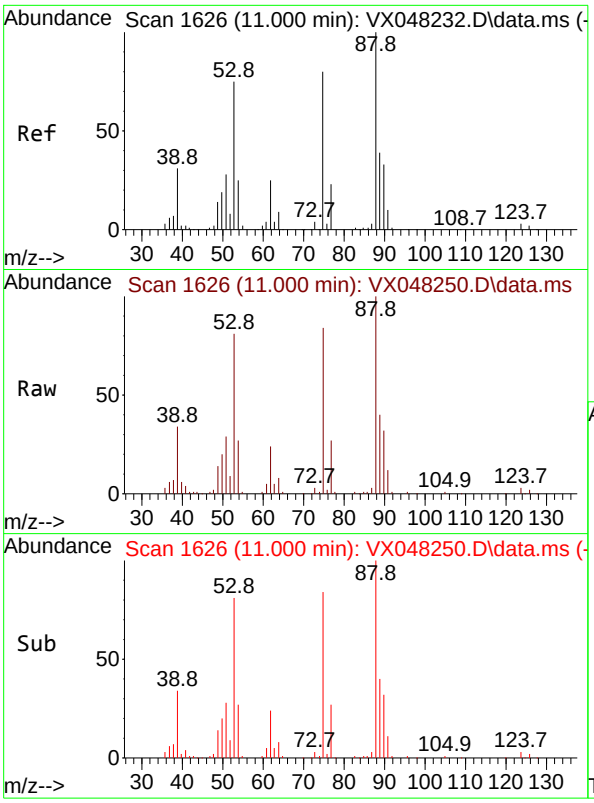


#80
1,3,5-Trimethylbenzene
Concen: 39.638 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:105 Resp: 267685

Ion	Ratio	Lower	Upper
105	100		
120	48.2	24.0	72.0



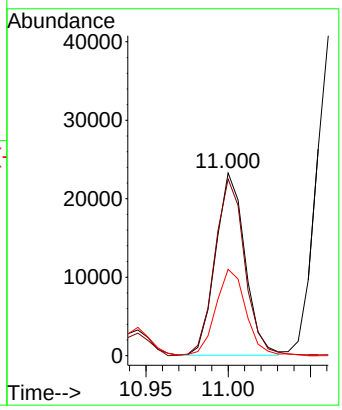


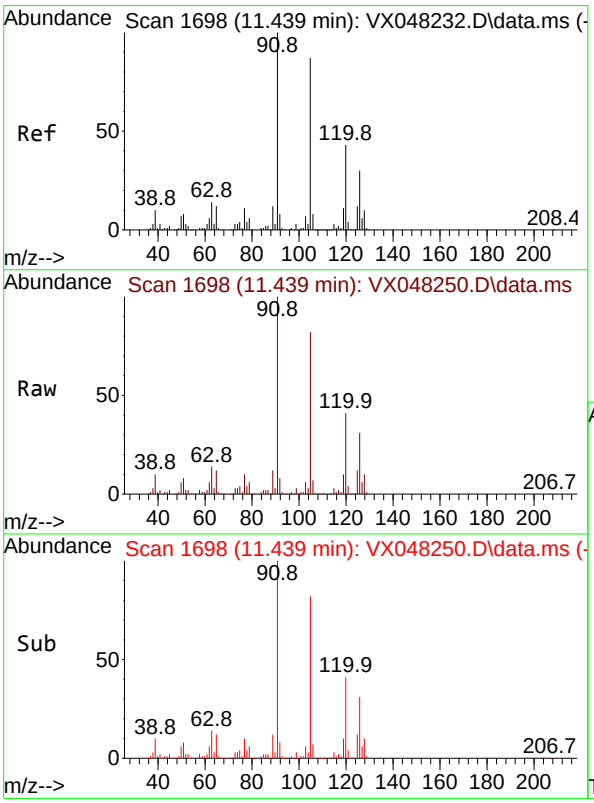
#81
trans-1,4-Dichloro-2-butene
Concen: 38.739 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 28849

Ion	Ratio	Lower	Upper
75	100		
53	99.8	79.5	119.3
89	48.9	36.8	55.2

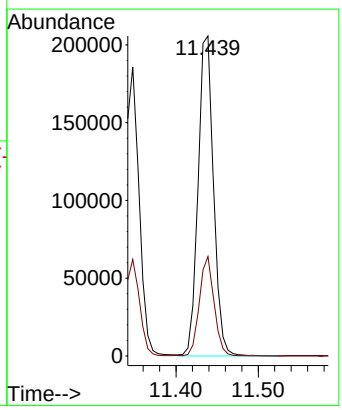


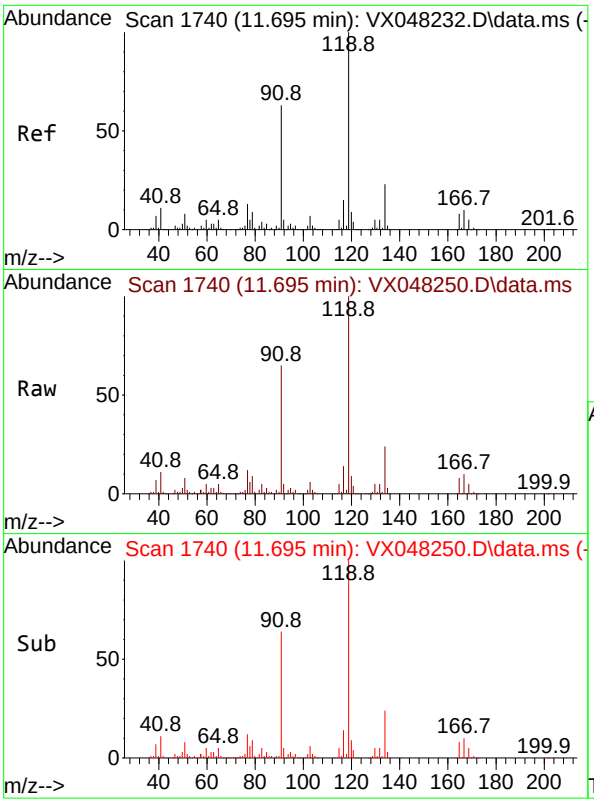


#82
4-Chlorotoluene
Concen: 39.656 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 91 Resp: 269666

Ion	Ratio	Lower	Upper
91	100		
126	29.7	14.1	42.4



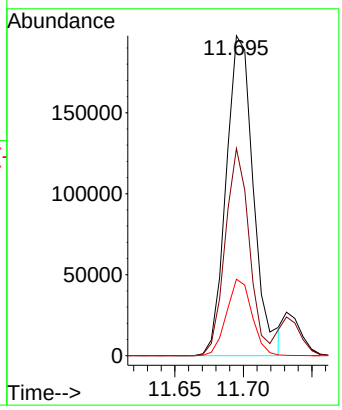


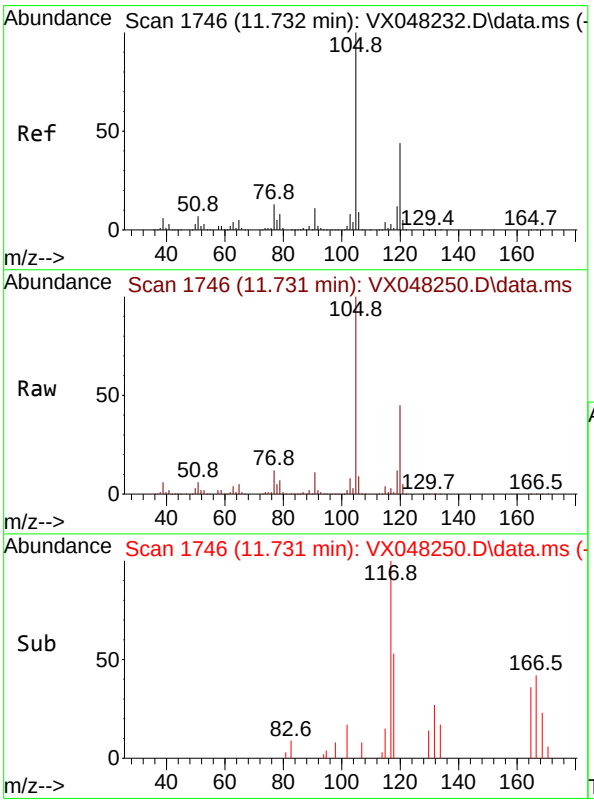
#83
tert-Butylbenzene
Concen: 39.532 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 274302

Ion	Ratio	Lower	Upper
119	100		
91	57.3	30.3	91.0
134	22.3	11.4	34.2

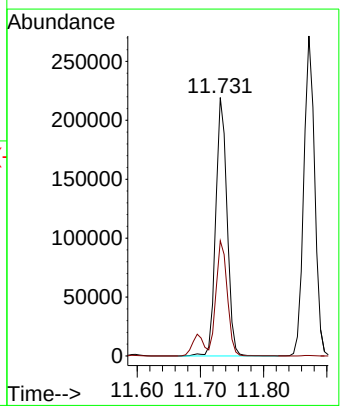


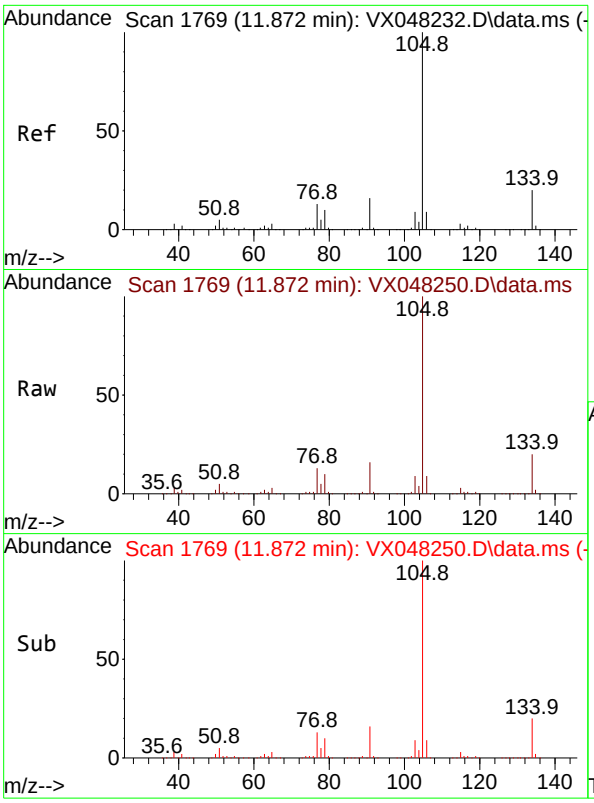


#84
1,2,4-Trimethylbenzene
Concen: 40.199 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:105 Resp: 270928

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.5



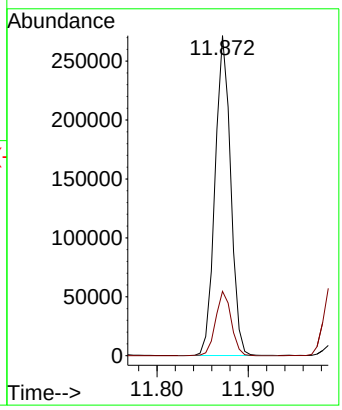


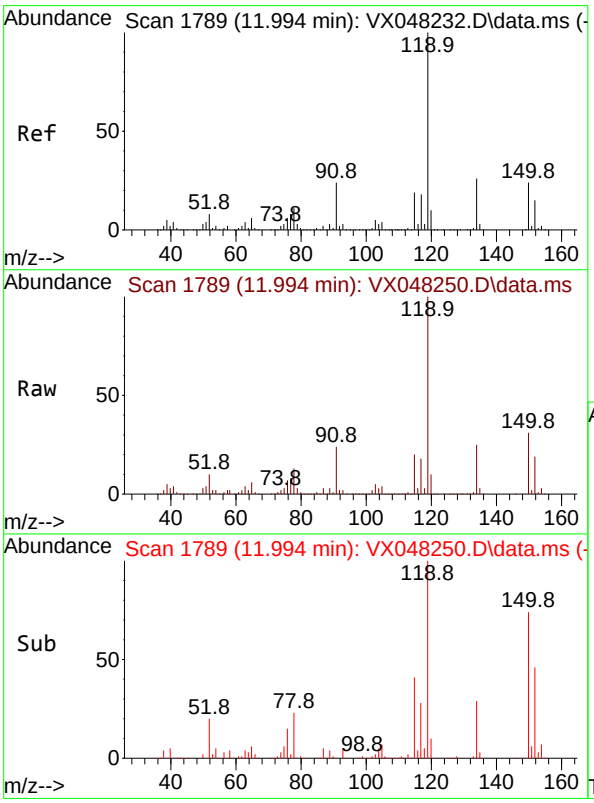
#85
sec-Butylbenzene
Concen: 38.565 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 321937

Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.1	30.1

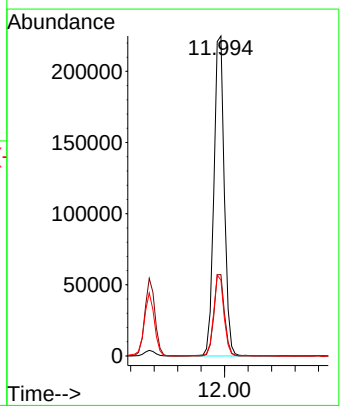


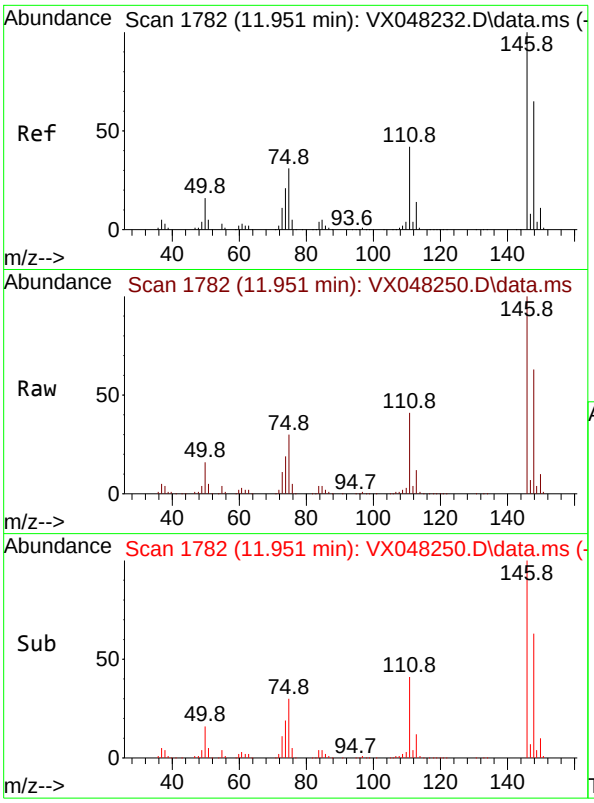


#86
p-Isopropyltoluene
Concen: 38.201 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:119 Resp: 275642

Ion	Ratio	Lower	Upper
119	100		
134	25.8	13.0	39.0
91	24.8	12.1	36.3



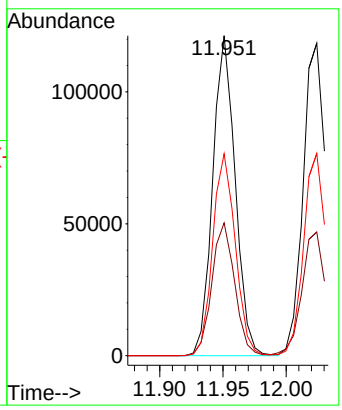


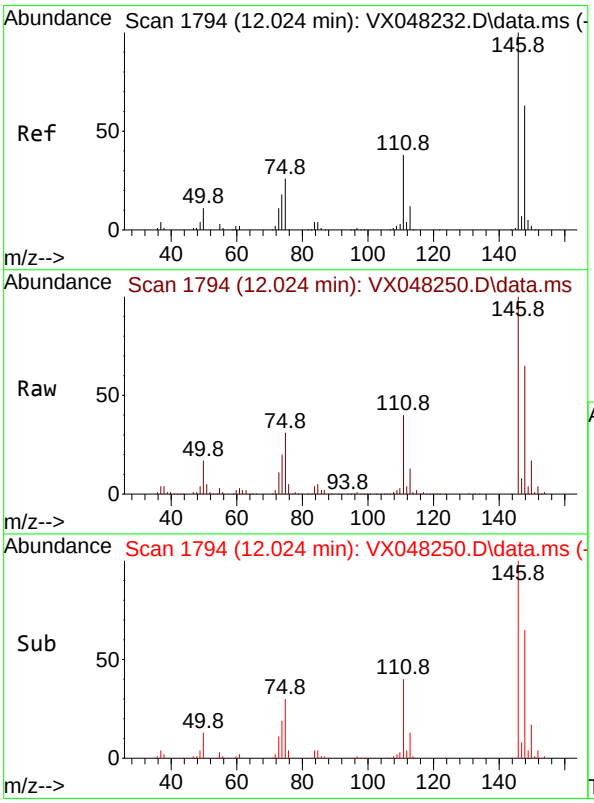
#87
1,3-Dichlorobenzene
Concen: 38.747 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 149462

Ion	Ratio	Lower	Upper
146	100		
111	42.1	20.4	61.2
148	63.6	31.9	95.9

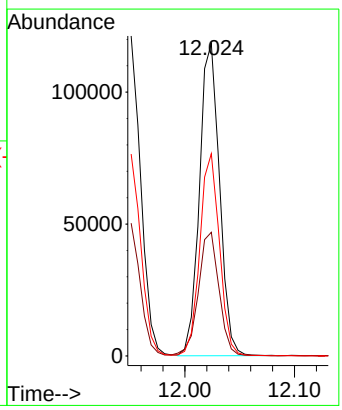


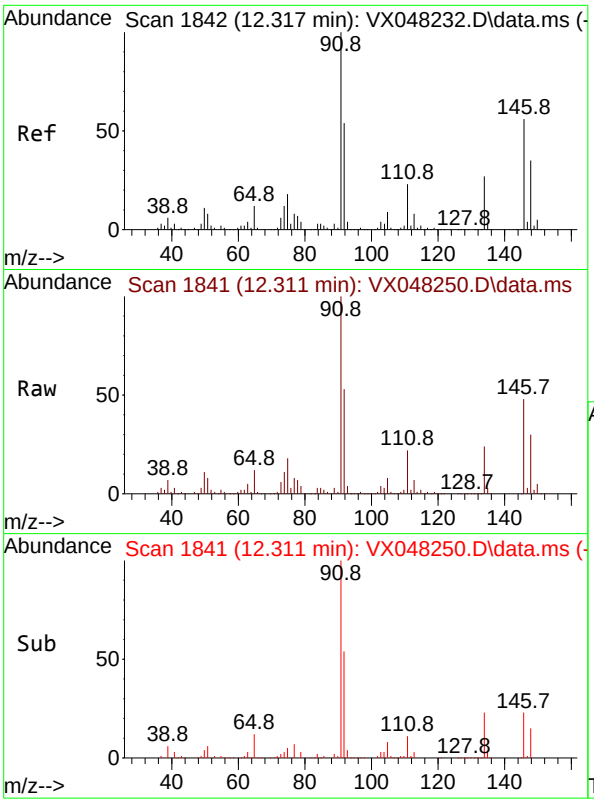


#88
1,4-Dichlorobenzene
Concen: 37.584 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:146 Resp: 150187

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.1	60.2
148	63.3	31.8	95.3



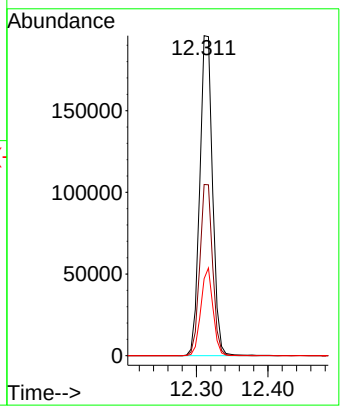


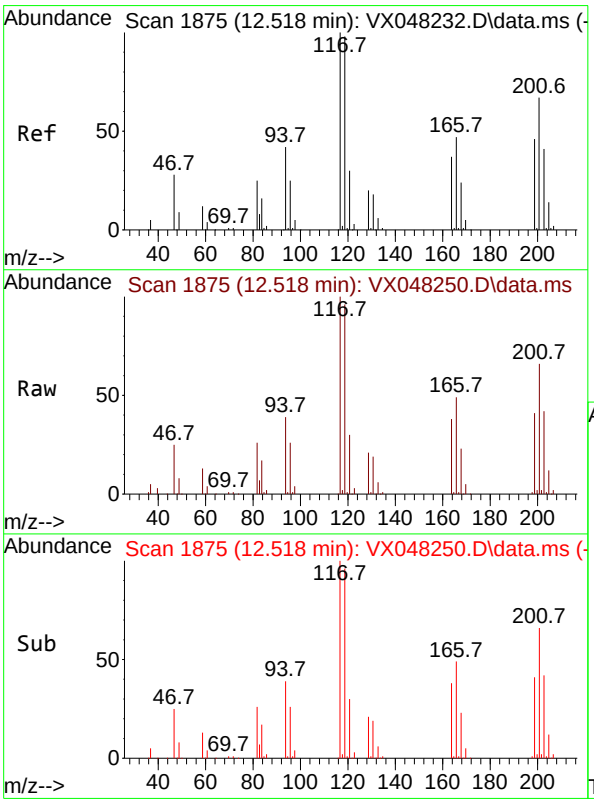
#89
n-Butylbenzene
Concen: 37.088 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 243576

Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.9	80.6
134	25.8	12.7	38.1

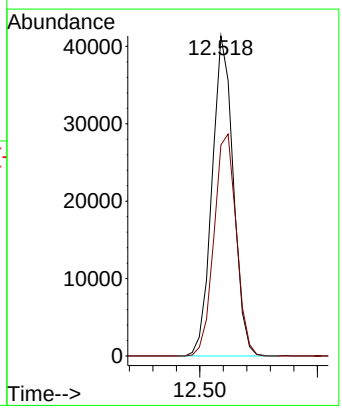


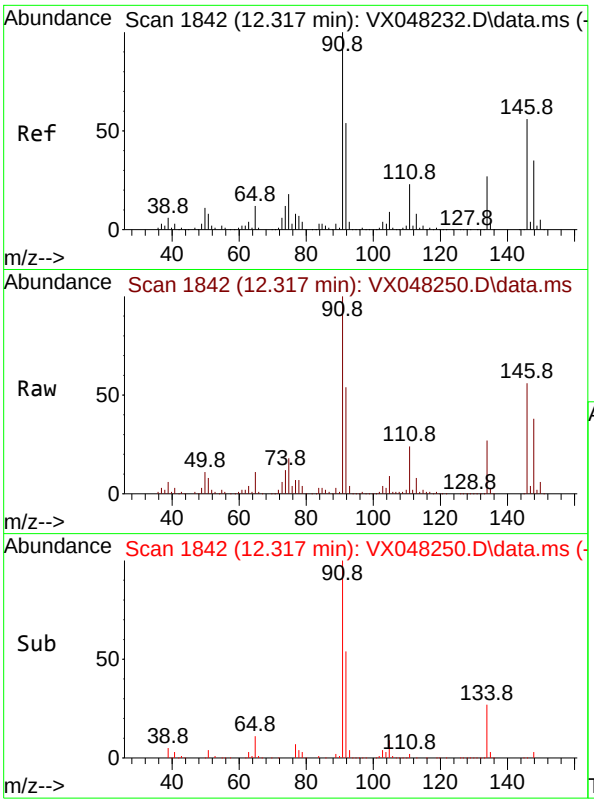


#90
Hexachloroethane
Concen: 36.415 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:117 Resp: 51888

Ion	Ratio	Lower	Upper
117	100		
201	72.9	34.1	102.2



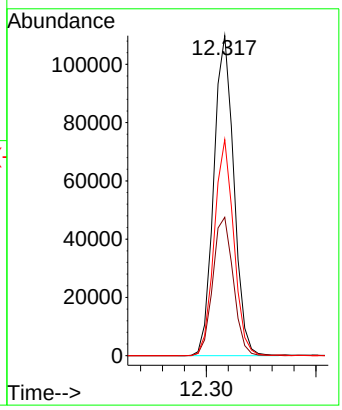


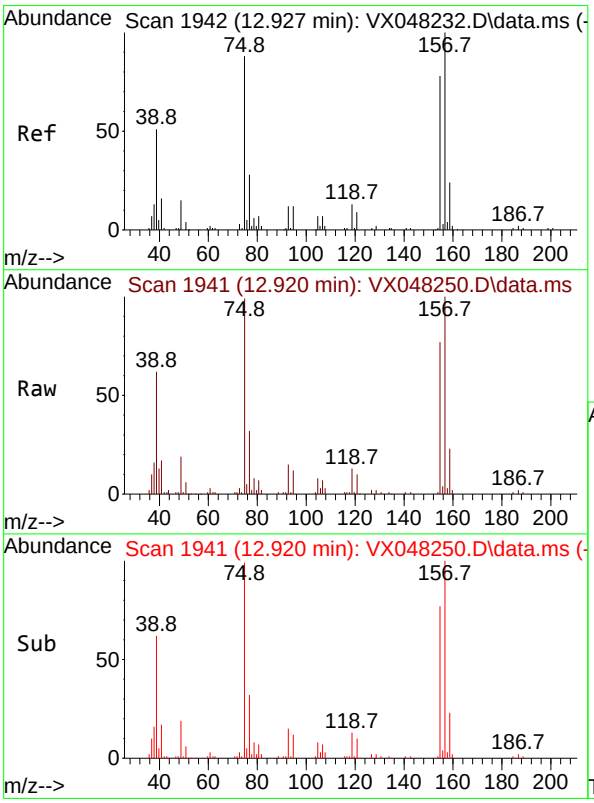
#91
1,2-Dichlorobenzene
Concen: 38.670 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 140047

Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.9	65.5
148	65.7	31.9	95.5

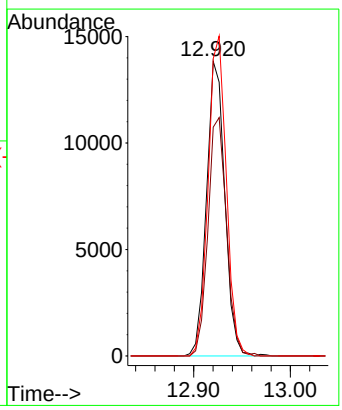


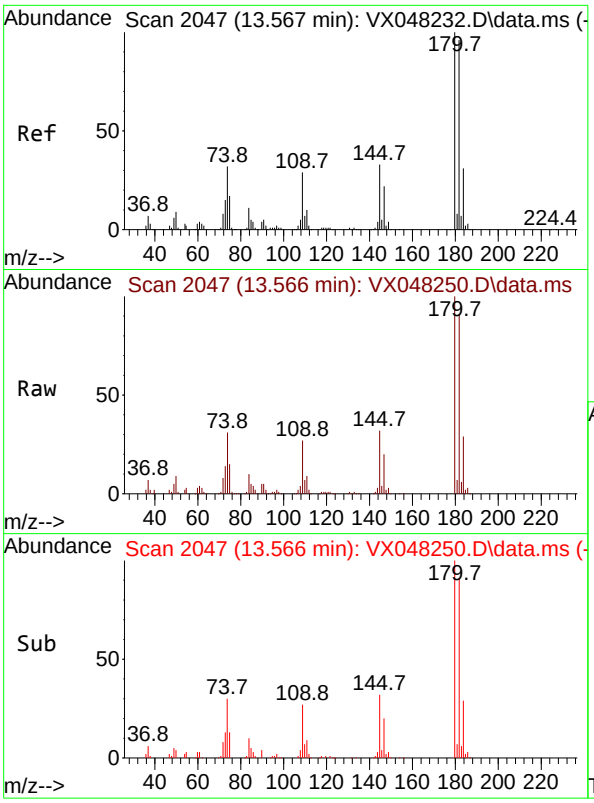


#92
1,2-Dibromo-3-Chloropropane
Concen: 40.157 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion: 75 Resp: 18165

Ion	Ratio	Lower	Upper
75	100		
155	82.2	42.8	128.4
157	107.8	54.2	162.6



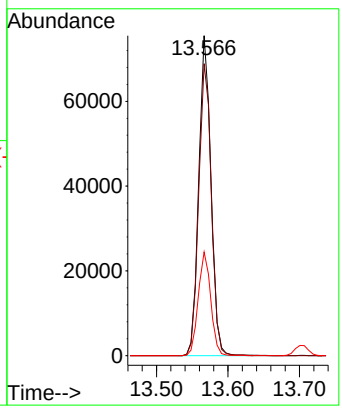


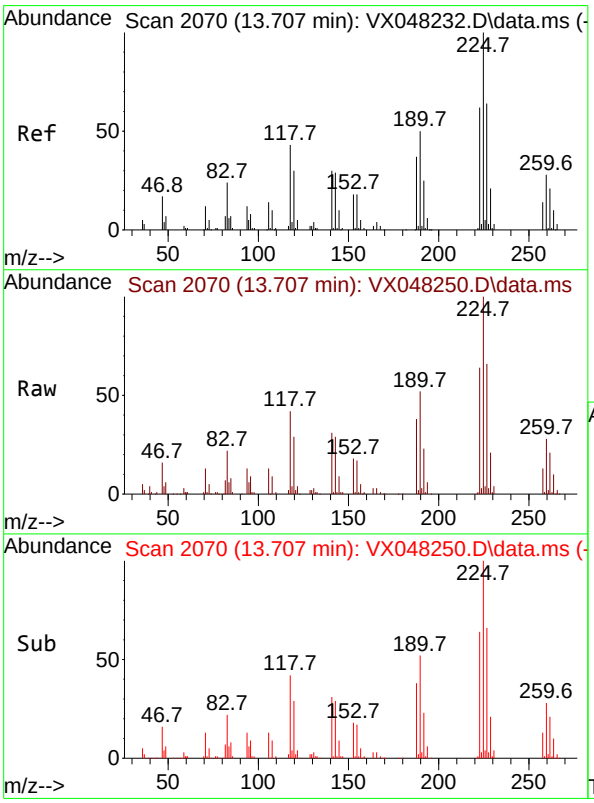
#93
1,2,4-Trichlorobenzene
Concen: 36.492 ug/l
RT: 13.566 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 89376

Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.3	142.0
145	33.2	16.3	48.9

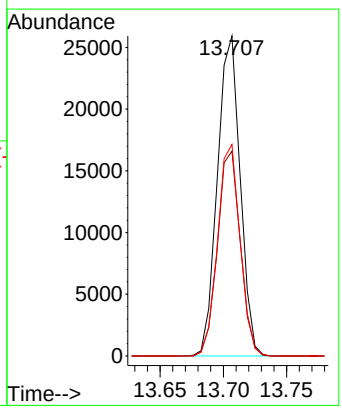


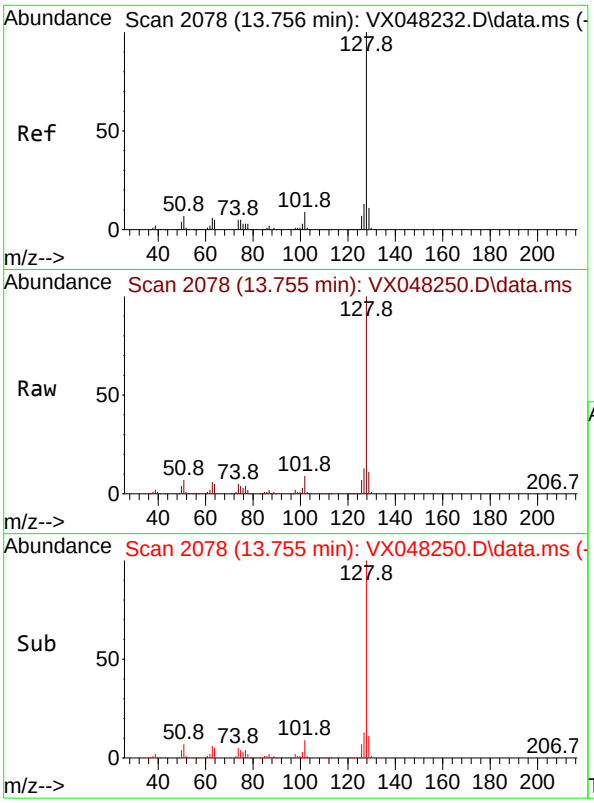


#94
Hexachlorobutadiene
Concen: 35.315 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:225 Resp: 32393

Ion	Ratio	Lower	Upper
225	100		
223	63.9	32.6	97.7
227	65.4	32.5	97.4



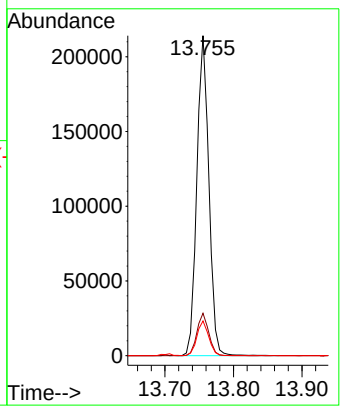


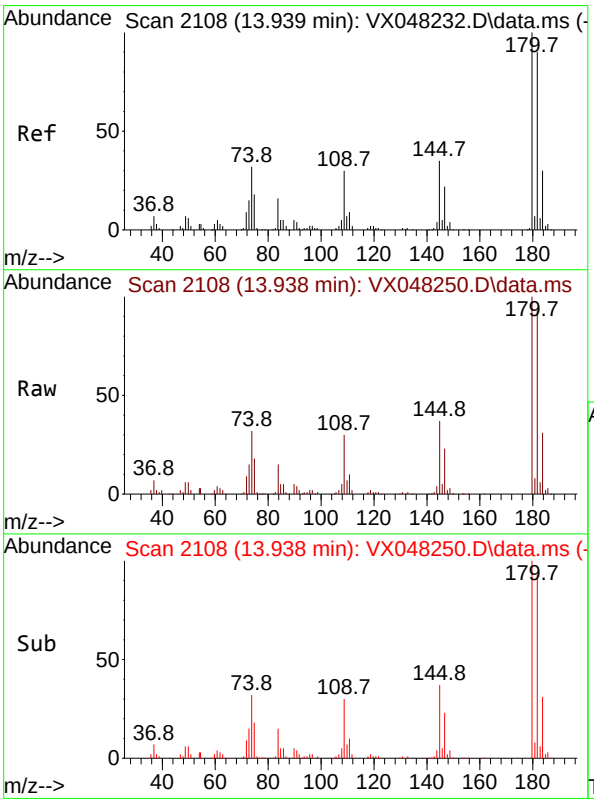
#95
Naphthalene
Concen: 40.307 ug/l
RT: 13.755 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 261541

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.4
129	10.7	8.6	12.8

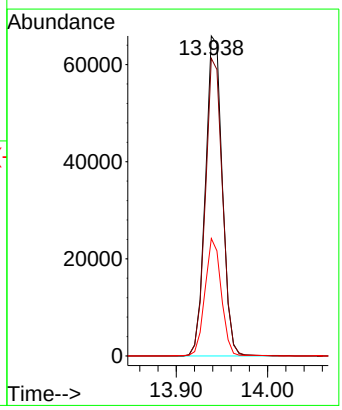




#96
1,2,3-Trichlorobenzene
Concen: 37.421 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX048250.D
Acq: 20 Oct 2025 19:25

Tgt Ion:180 Resp: 84101

Ion	Ratio	Lower	Upper
180	100		
182	94.3	46.6	139.7
145	35.7	16.9	50.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048252.D
Acq On : 21 Oct 2025 08:43
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Oct 24 04:21:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.531	168	144122	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.738	114	227103	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	197016	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	96991	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	94847	46.938	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 93.880%			
35) Dibromofluoromethane	5.361	113	77279	49.844	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.680%			
50) Toluene-d8	8.628	98	261228	48.070	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 96.140%			
62) 4-Bromofluorobenzene	11.061	95	95248	46.072	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 92.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	71433	48.214	ug/l	96
3) Chloromethane	1.300	50	67413	48.746	ug/l	98
4) Vinyl Chloride	1.380	62	64624	50.463	ug/l	99
5) Bromomethane	1.617	94	43146	49.645	ug/l	97
6) Chloroethane	1.697	64	37653	50.036	ug/l	90
7) Trichlorofluoromethane	1.898	101	117120	47.687	ug/l	99
8) Diethyl Ether	2.129	74	32474	46.991	ug/l	90
9) 1,1,2-Trichlorotrifluo...	2.331	101	73938	47.541	ug/l	96
10) Methyl Iodide	2.453	142	89481	45.766	ug/l	100
11) Tert butyl alcohol	2.934	59	34686	172.886	ug/l	98
12) 1,1-Dichloroethene	2.325	96	71745	47.416	ug/l	88
13) Acrolein	2.233	56	55830	272.848	ug/l	99
14) Allyl chloride	2.666	41	114538	45.594	ug/l	97
15) Acrylonitrile	3.050	53	152721	211.101	ug/l	99
16) Acetone	2.367	43	166093	239.598	ug/l	95
17) Carbon Disulfide	2.514	76	207386	43.489	ug/l	100
18) Methyl Acetate	2.696	43	59246	40.924	ug/l	94
19) Methyl tert-butyl Ether	3.099	73	227127	44.001	ug/l	97
20) Methylene Chloride	2.788	84	80164	47.460	ug/l	92
21) trans-1,2-Dichloroethene	3.087	96	77587	46.681	ug/l	97
22) Diisopropyl ether	3.745	45	232684	46.439	ug/l	95
23) Vinyl Acetate	3.708	43	904806	226.065	ug/l	98
24) 1,1-Dichloroethane	3.599	63	137234	45.296	ug/l	99
25) 2-Butanone	4.531	43	187588	213.793	ug/l	100
26) 2,2-Dichloropropane	4.458	77	122921	44.950	ug/l	100
27) cis-1,2-Dichloroethene	4.471	96	87886	45.309	ug/l	98
28) Bromochloromethane	4.879	49	62707	49.917	ug/l	86
29) Tetrahydrofuran	4.983	42	100043	190.379	ug/l	93
30) Chloroform	5.074	83	145033	44.807	ug/l	98
31) Cyclohexane	5.452	56	113590	45.286	ug/l	95
32) 1,1,1-Trichloroethane	5.361	97	132637	44.462	ug/l	98
36) 1,1-Dichloropropene	5.672	75	97868	44.412	ug/l	100
37) Ethyl Acetate	4.690	43	73825	40.418	ug/l	98
38) Carbon Tetrachloride	5.659	117	120960	44.491	ug/l	96
39) Methylcyclohexane	7.360	83	115804	44.497	ug/l	95
40) Benzene	6.013	78	290616	45.424	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048252.D
Acq On : 21 Oct 2025 08:43
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Oct 24 04:21:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.891	41	40965	42.707	ug/l		96
42) 1,2-Dichloroethane	6.062	62	105747	44.791	ug/l		99
43) Isopropyl Acetate	6.318	43	122589	40.859	ug/l		95
44) Trichloroethene	7.104	130	76506	45.286	ug/l		92
45) 1,2-Dichloropropane	7.409	63	69342	45.586	ug/l		100
46) Dibromomethane	7.561	93	52913	44.649	ug/l		94
47) Bromodichloromethane	7.799	83	115823	45.265	ug/l		98
48) Methyl methacrylate	7.671	41	62073	41.000	ug/l		94
49) 1,4-Dioxane	7.641	88	15658	782.834	ug/l		92
51) 4-Methyl-2-Pentanone	8.555	43	343412	198.518	ug/l		95
52) Toluene	8.701	92	180638	44.443	ug/l		100
53) t-1,3-Dichloropropene	8.957	75	111868	45.367	ug/l		100
54) cis-1,3-Dichloropropene	8.348	75	120247	45.199	ug/l		94
55) 1,1,2-Trichloroethane	9.134	97	66141	43.758	ug/l		99
56) Ethyl methacrylate	9.098	69	94033	42.533	ug/l		94
57) 1,3-Dichloropropane	9.287	76	112894	43.726	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.220	63	253467	213.469	ug/l		95
59) 2-Hexanone	9.409	43	257988	213.881	ug/l		95
60) Dibromochloromethane	9.500	129	88005	43.319	ug/l		99
61) 1,2-Dibromoethane	9.592	107	69657	43.228	ug/l		98
64) Tetrachloroethene	9.256	164	64080	43.569	ug/l		98
65) Chlorobenzene	10.061	112	201952	45.568	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.140	131	73602	45.215	ug/l		98
67) Ethyl Benzene	10.177	91	342357	45.371	ug/l		98
68) m/p-Xylenes	10.280	106	262482	93.624	ug/l		98
69) o-Xylene	10.622	106	123116	45.486	ug/l		98
70) Styrene	10.634	104	218038	47.309	ug/l		100
71) Bromoform	10.780	173	55833	42.915	ug/l	#	99
73) Isopropylbenzene	10.945	105	327700	46.258	ug/l		100
74) N-amyl acetate	10.823	43	104260	41.490	ug/l		94
75) 1,1,2,2-Tetrachloroethane	11.195	83	83168	42.990	ug/l		99
76) 1,2,3-Trichloropropane	11.219	75	95070	60.444	ug/l		81
77) Bromobenzene	11.177	156	80981	45.589	ug/l		94
78) n-propylbenzene	11.286	91	383372	46.739	ug/l		98
79) 2-Chlorotoluene	11.347	91	226051	45.456	ug/l		98
80) 1,3,5-Trimethylbenzene	11.433	105	270132	46.077	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	27826	43.041	ug/l		98
82) 4-Chlorotoluene	11.433	91	271398	45.973	ug/l		98
83) tert-Butylbenzene	11.695	119	269543	44.748	ug/l		98
84) 1,2,4-Trimethylbenzene	11.731	105	270636	46.257	ug/l		99
85) sec-Butylbenzene	11.872	105	324459	44.772	ug/l		99
86) p-Isopropyltoluene	11.987	119	278806	44.510	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	150857	45.050	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	150468	43.374	ug/l		99
89) n-Butylbenzene	12.311	91	246692	43.269	ug/l		99
90) Hexachloroethane	12.518	117	53716	43.425	ug/l		96
91) 1,2-Dichlorobenzene	12.317	146	137387	43.698	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.920	75	15819	40.283	ug/l		100
93) 1,2,4-Trichlorobenzene	13.566	180	85831	40.369	ug/l		99
94) Hexachlorobutadiene	13.707	225	32869	41.267	ug/l		99
95) Naphthalene	13.755	128	233946	41.531	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	80863	41.446	ug/l		97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048252.D
Acq On : 21 Oct 2025 08:43
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Oct 24 04:21:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

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

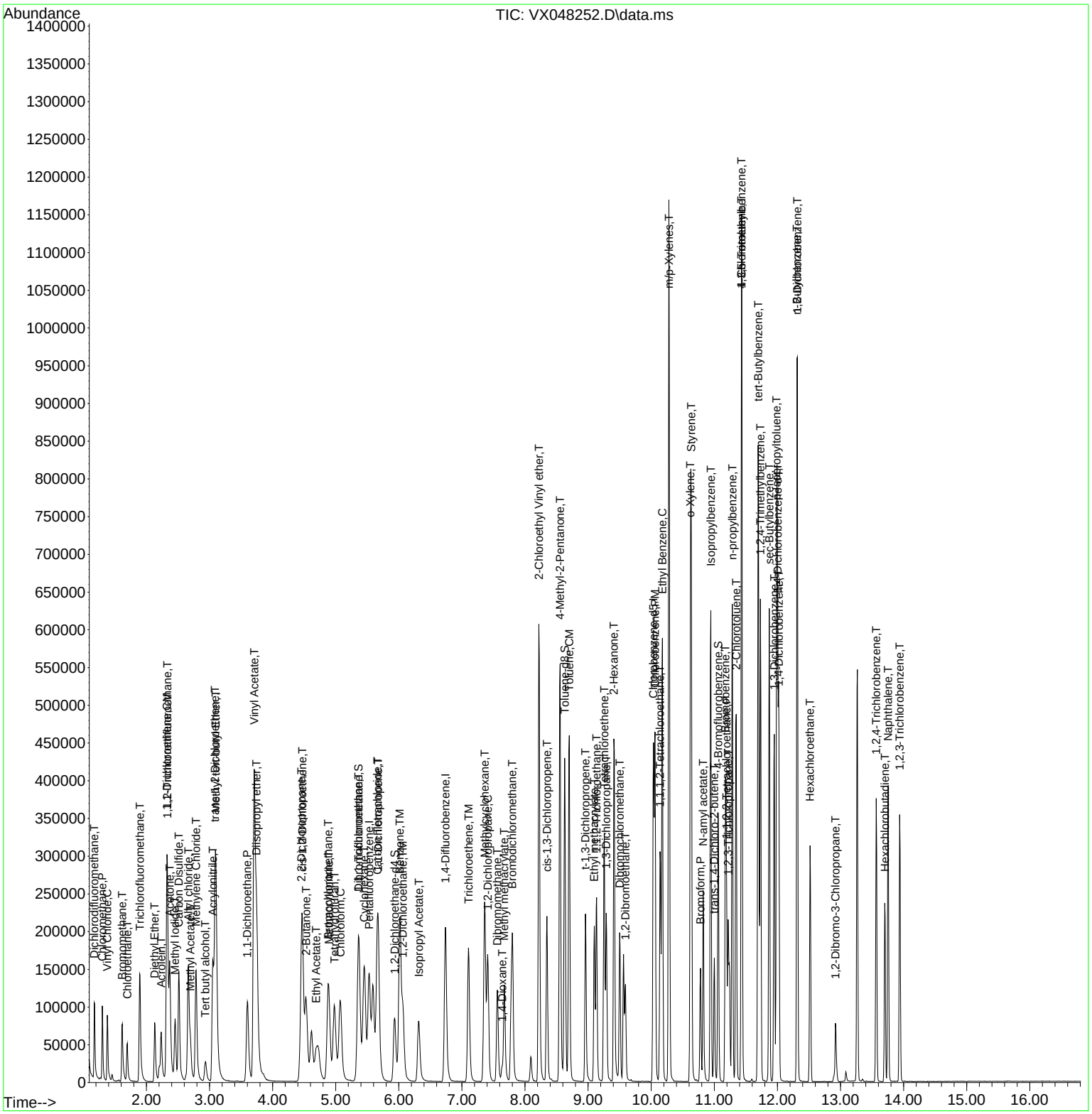
(#) = qualifier out of range (m) = manual integration (+) = signals summed

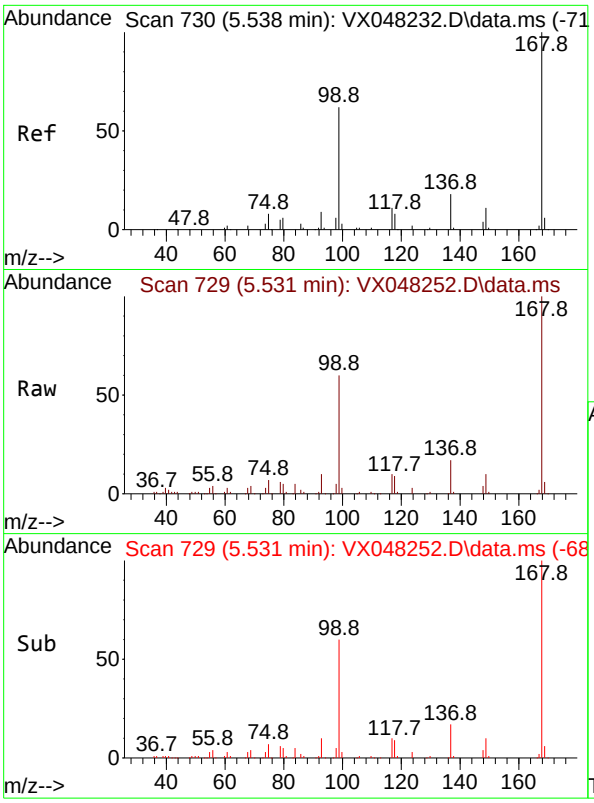
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048252.D
Acq On : 21 Oct 2025 08:43
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Oct 24 04:21:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration



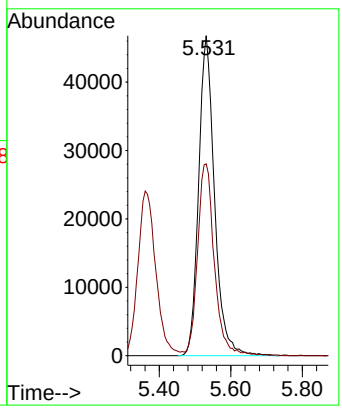


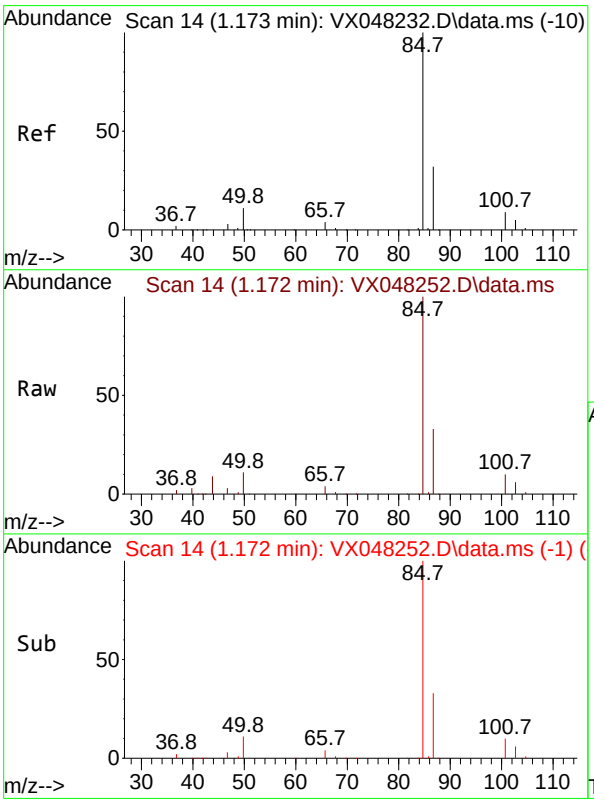
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 7
Delta R.T. -0.013 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 144122

Ion	Ratio	Lower	Upper
168	100		
99	59.8	46.4	69.6

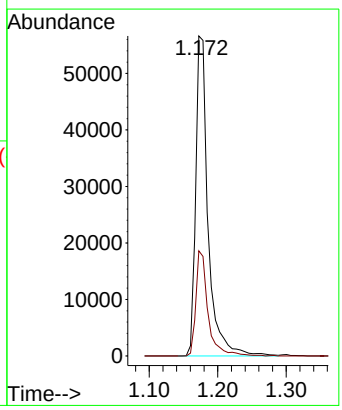


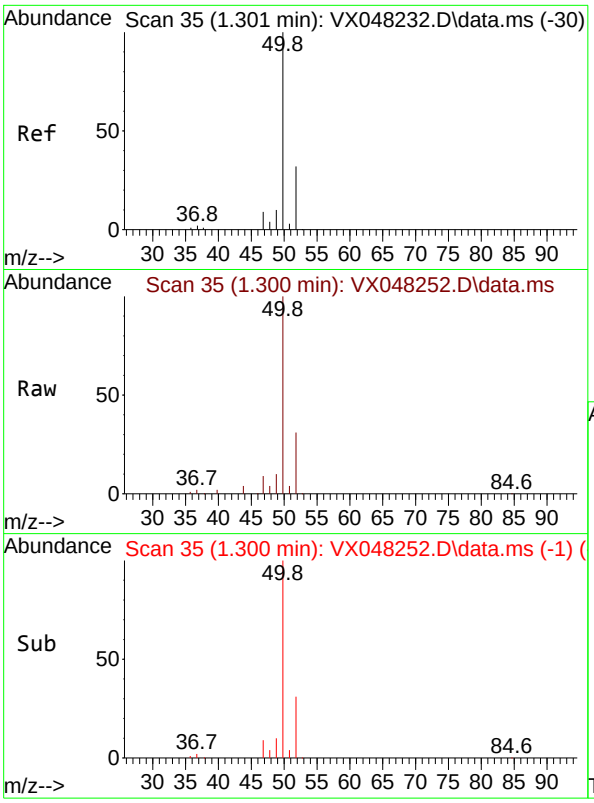


#2
Dichlorodifluoromethane
Concen: 48.214 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 85 Resp: 71433

Ion	Ratio	Lower	Upper
85	100		
87	32.9	15.3	45.9



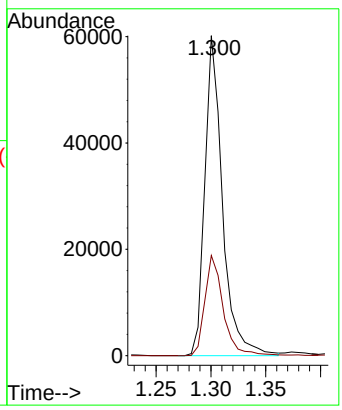


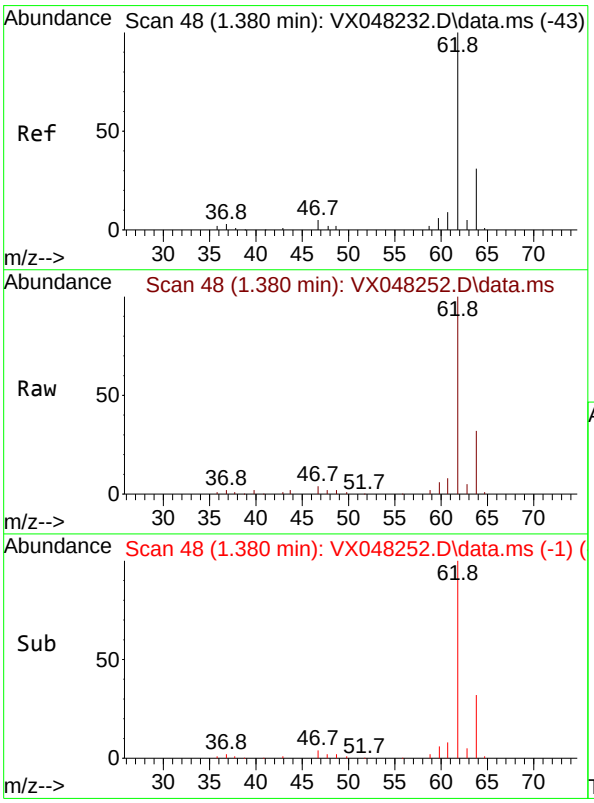
#3
Chloromethane
Concen: 48.746 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 67413

Ion	Ratio	Lower	Upper
50	100		
52	31.3	25.9	38.9

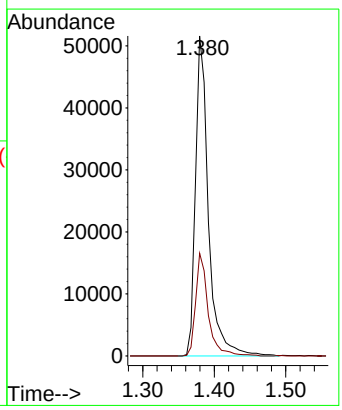


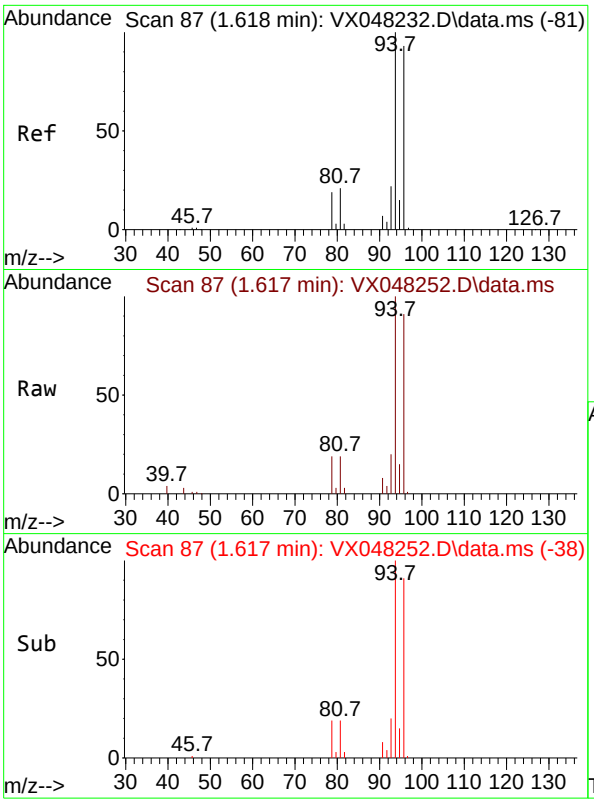


#4
Vinyl Chloride
Concen: 50.463 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 62 Resp: 64624

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.1	37.7



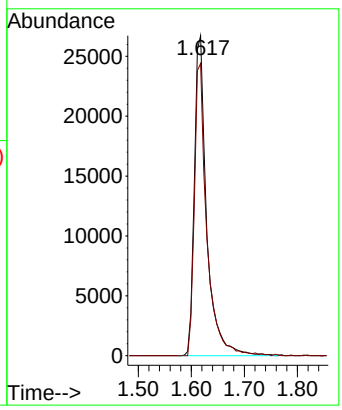


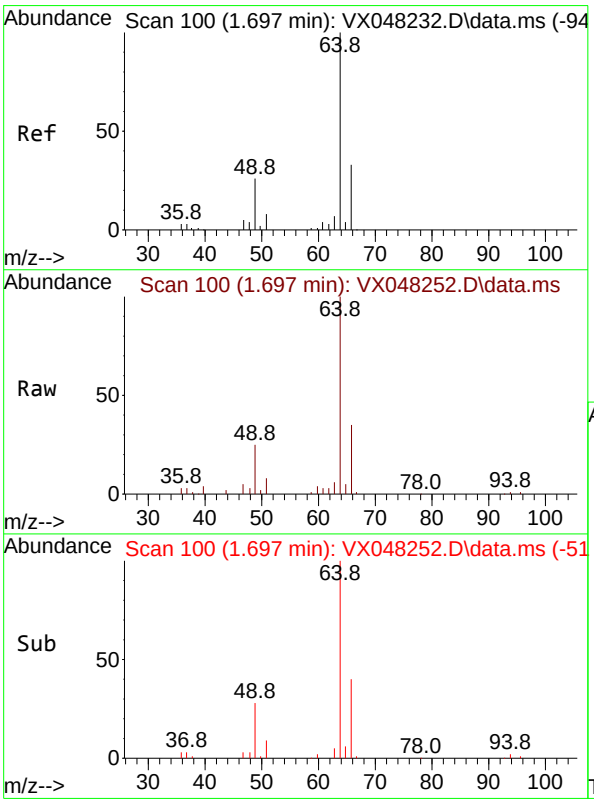
#5
Bromomethane
Concen: 49.645 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 43146

Ion	Ratio	Lower	Upper
94	100		
96	92.1	76.0	114.0

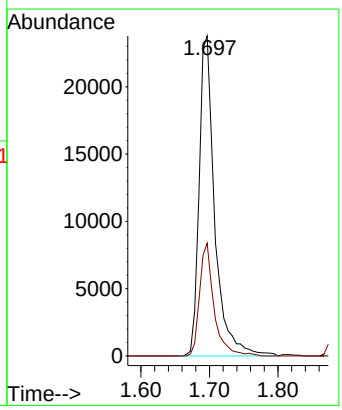


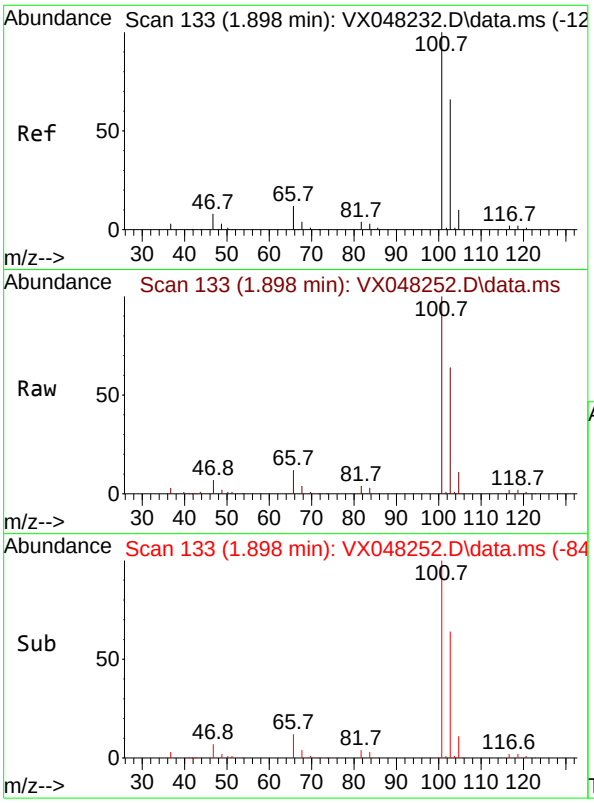


#6
Chloroethane
Concen: 50.036 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 64 Resp: 37653

Ion	Ratio	Lower	Upper
64	100		
66	35.2	23.9	35.9



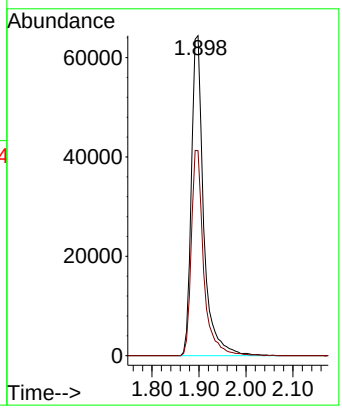


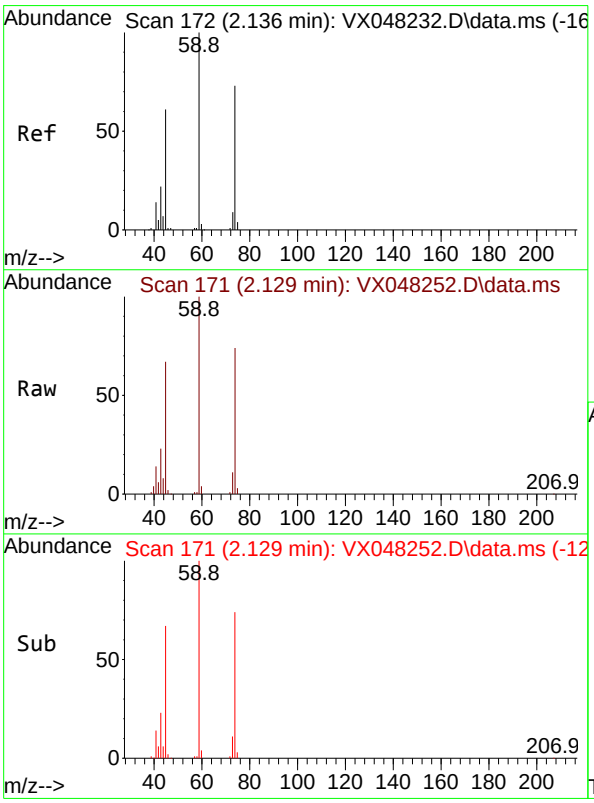
#7
Trichlorofluoromethane
Concen: 47.687 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 117120

Ion	Ratio	Lower	Upper
101	100		
103	64.1	51.6	77.4

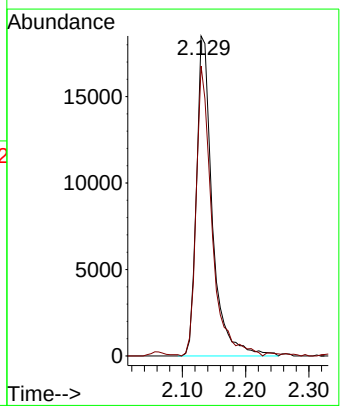


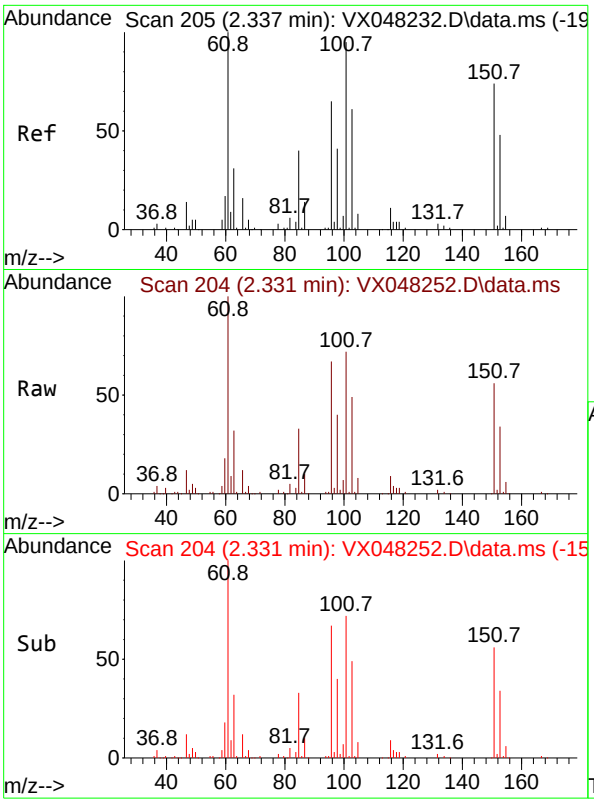


#8
Diethyl Ether
Concen: 46.991 ug/l
RT: 2.129 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 74 Resp: 32474

Ion	Ratio	Lower	Upper
74	100		
45	89.4	50.0	149.8



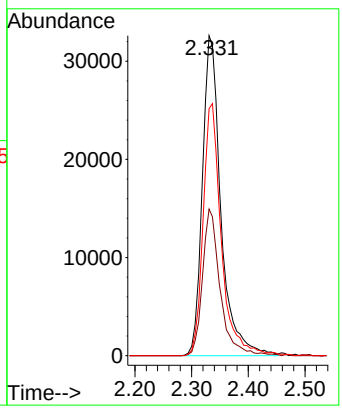


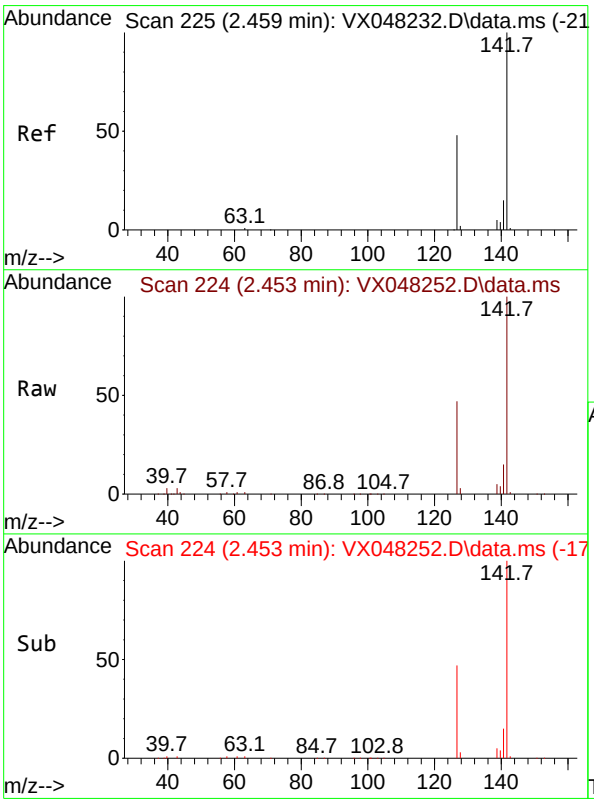
#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.541 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 73938

Ion	Ratio	Lower	Upper
101	100		
85	43.8	35.6	53.4
151	77.9	58.0	87.0

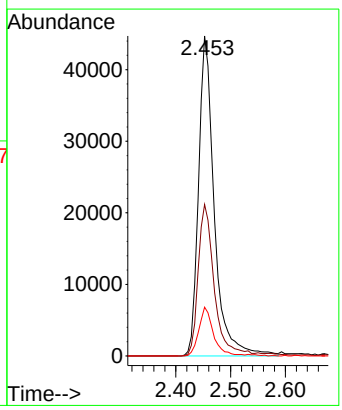


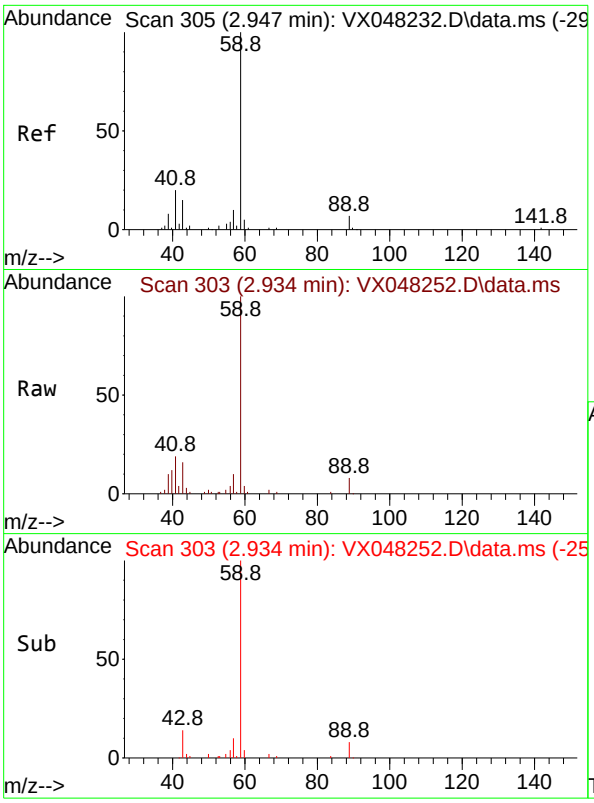


#10
Methyl Iodide
Concen: 45.766 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:142 Resp: 89481

Ion	Ratio	Lower	Upper
142	100		
127	48.1	38.5	57.7
141	14.1	11.6	17.4



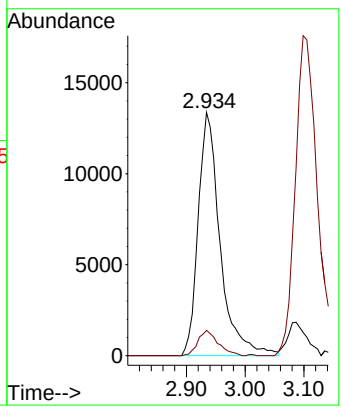


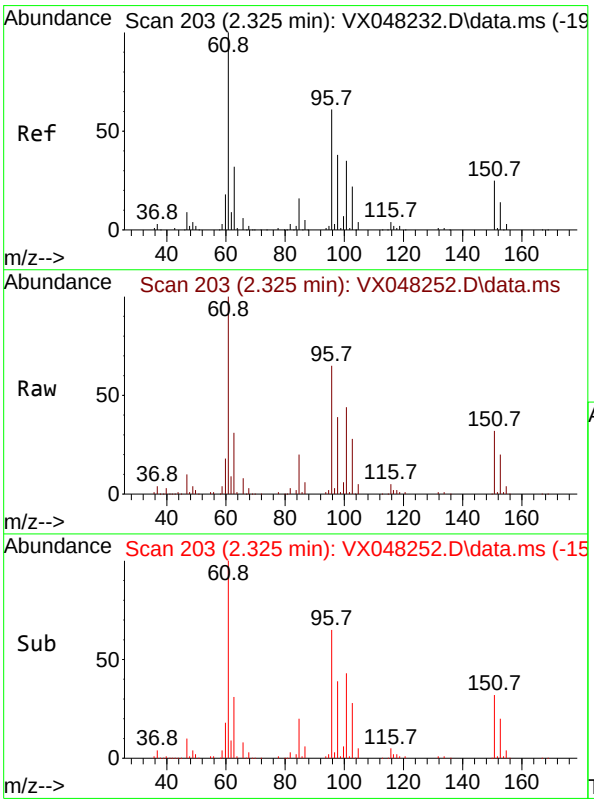
#11
Tert butyl alcohol
Concen: 172.886 ug/l
RT: 2.934 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 34686

Ion	Ratio	Lower	Upper
59	100		
57	9.6	8.2	12.4

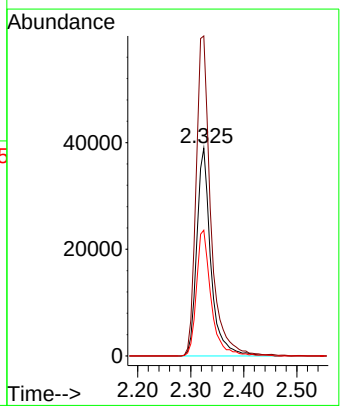


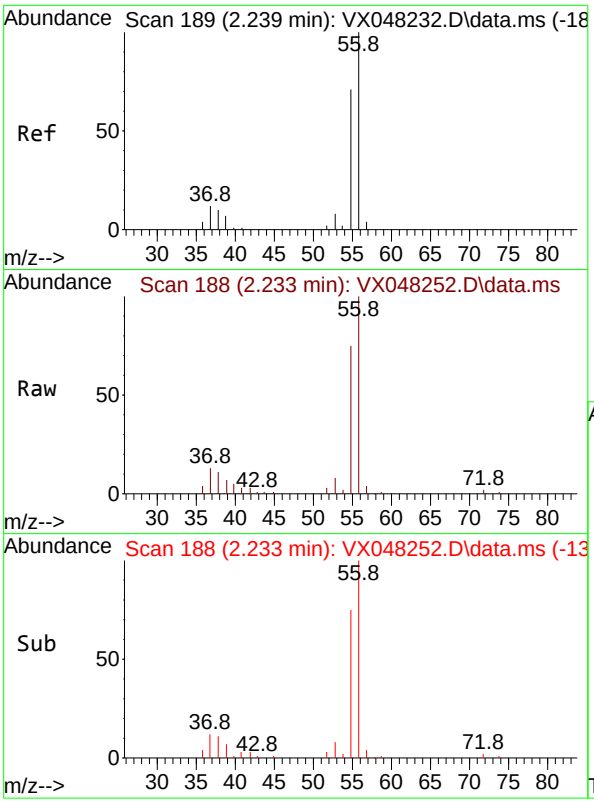


#12
1,1-Dichloroethene
Concen: 47.416 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 96 Resp: 71745

Ion	Ratio	Lower	Upper
96	100		
61	154.0	139.0	208.6
98	60.6	52.4	78.6



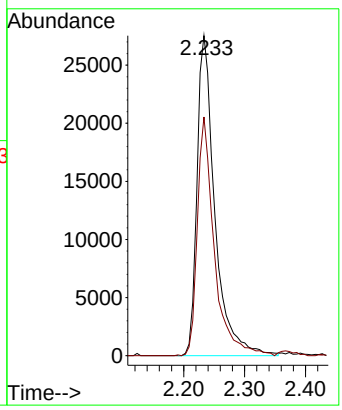


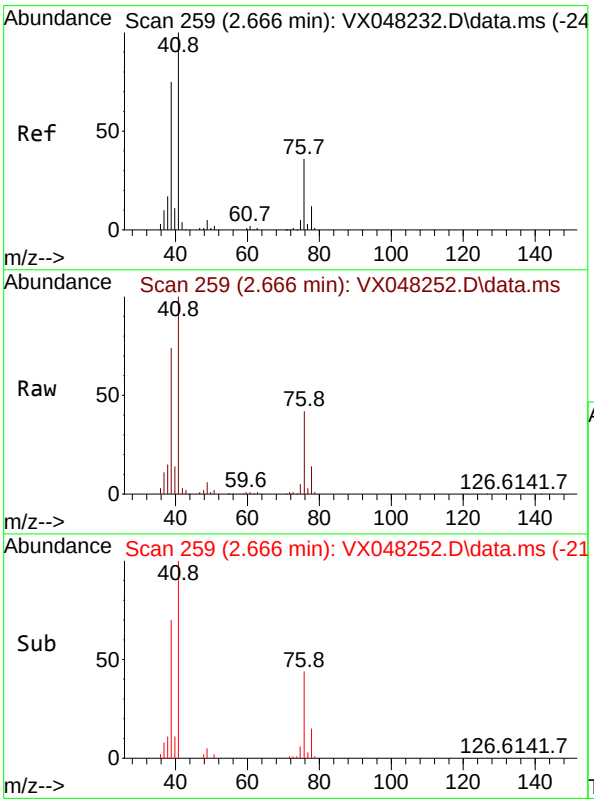
#13
Acrolein
Concen: 272.848 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 55830

Ion	Ratio	Lower	Upper
56	100		
55	71.1	56.1	84.1

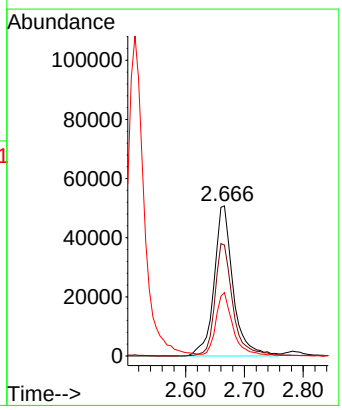


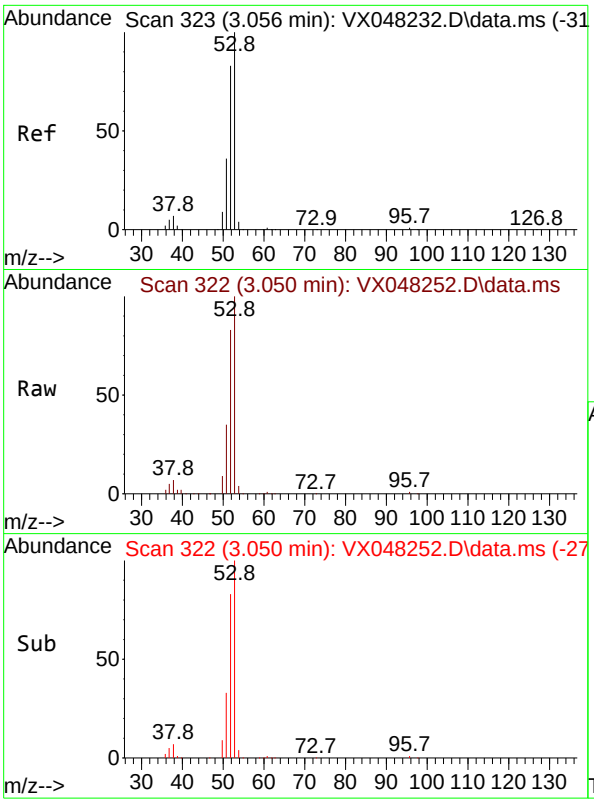


#14
Allyl chloride
Concen: 45.594 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 41 Resp: 114538

Ion	Ratio	Lower	Upper
41	100		
39	71.0	56.0	84.0
76	38.7	27.5	41.3



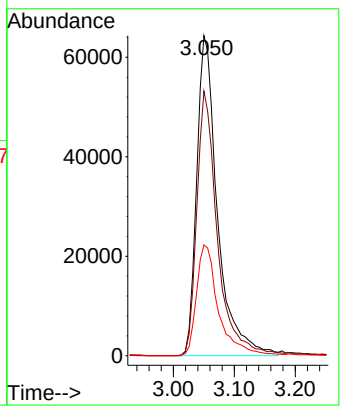


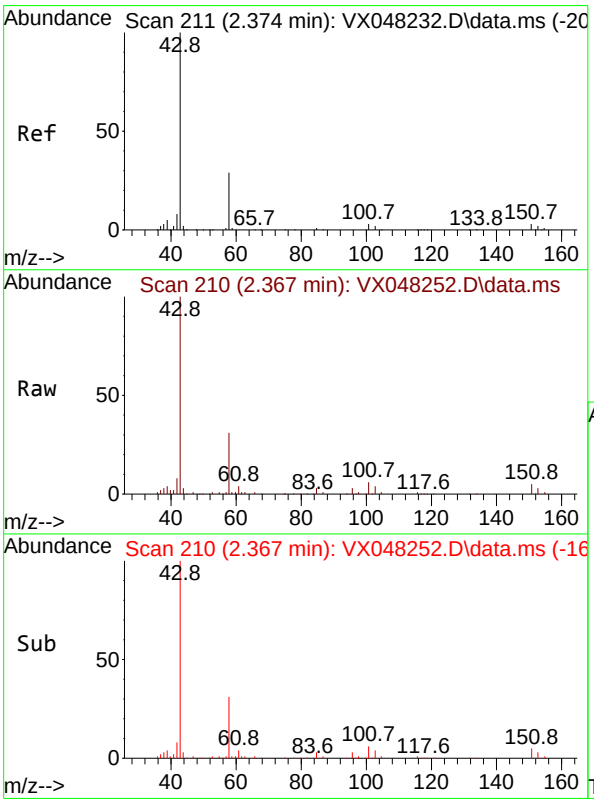
#15
Acrylonitrile
Concen: 211.101 ug/l
RT: 3.050 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 152721

Ion	Ratio	Lower	Upper
53	100		
52	82.1	66.1	99.1
51	36.7	29.0	43.4

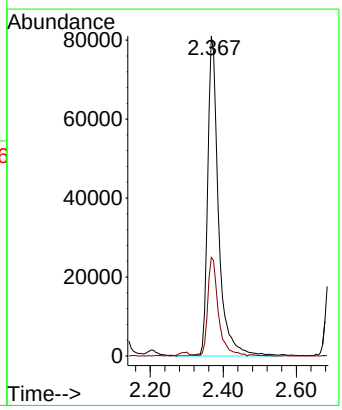


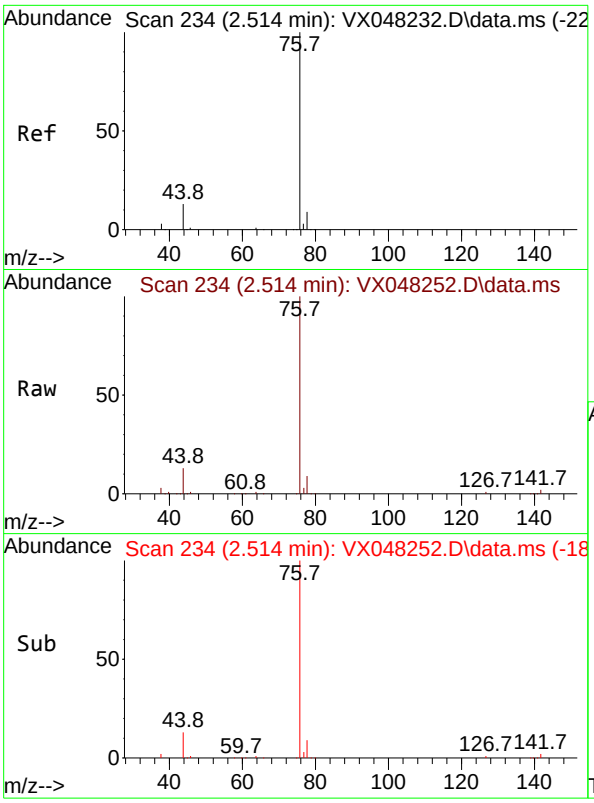


#16
Acetone
Concen: 239.598 ug/l
RT: 2.367 min Scan# 210
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 43 Resp: 166093

Ion	Ratio	Lower	Upper
43	100		
58	32.1	23.4	35.2



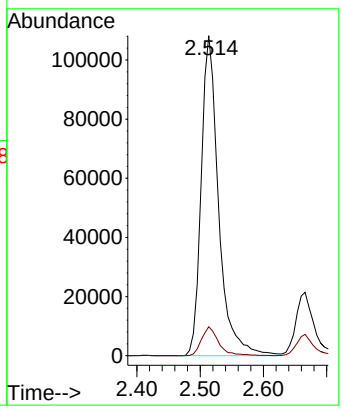


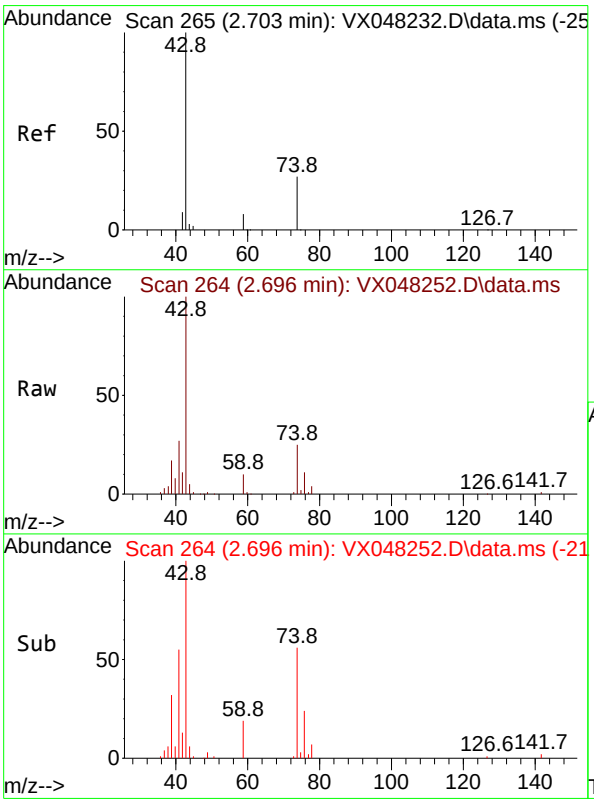
#17
Carbon Disulfide
Concen: 43.489 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 207386

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.1	10.7

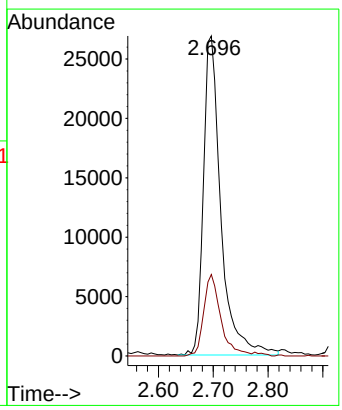


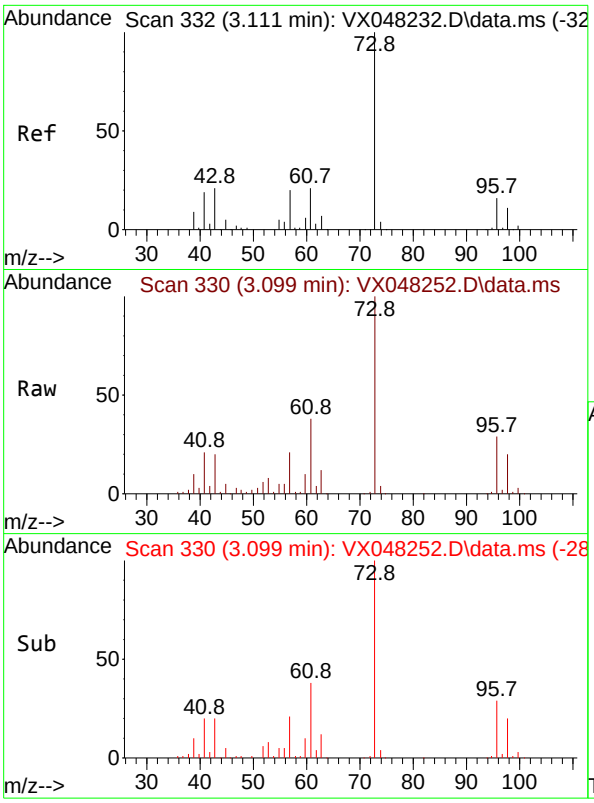


#18
Methyl Acetate
Concen: 40.924 ug/l
RT: 2.696 min Scan# 264
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 43 Resp: 59246

Ion	Ratio	Lower	Upper
43	100		
74	24.9	17.5	26.3



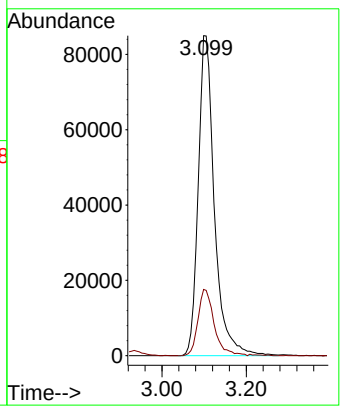


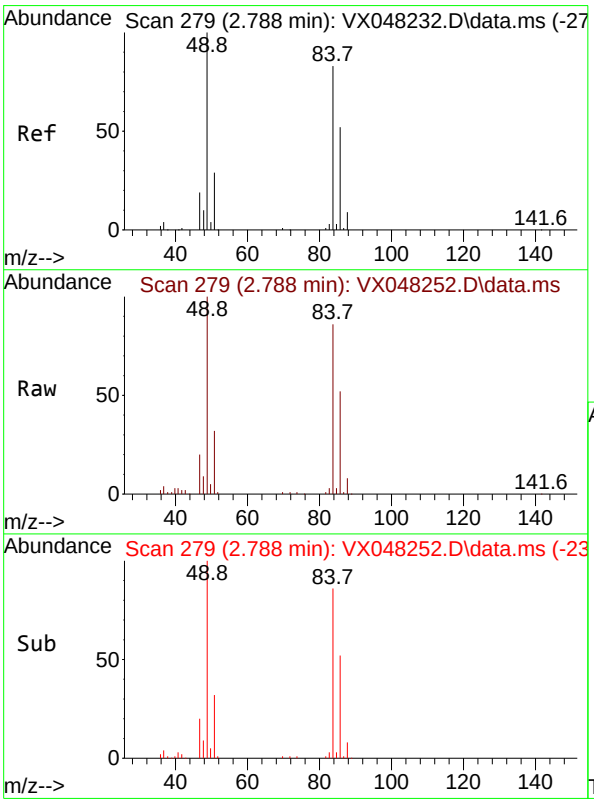
#19
Methyl tert-butyl Ether
Concen: 44.001 ug/l
RT: 3.099 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 227127

Ion	Ratio	Lower	Upper
73	100		
57	20.7	17.7	26.5

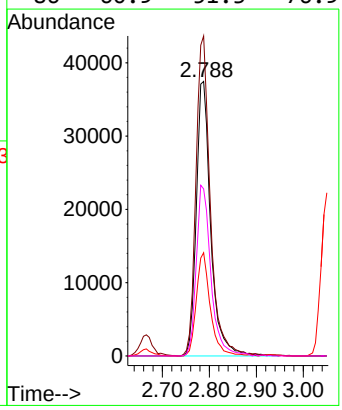


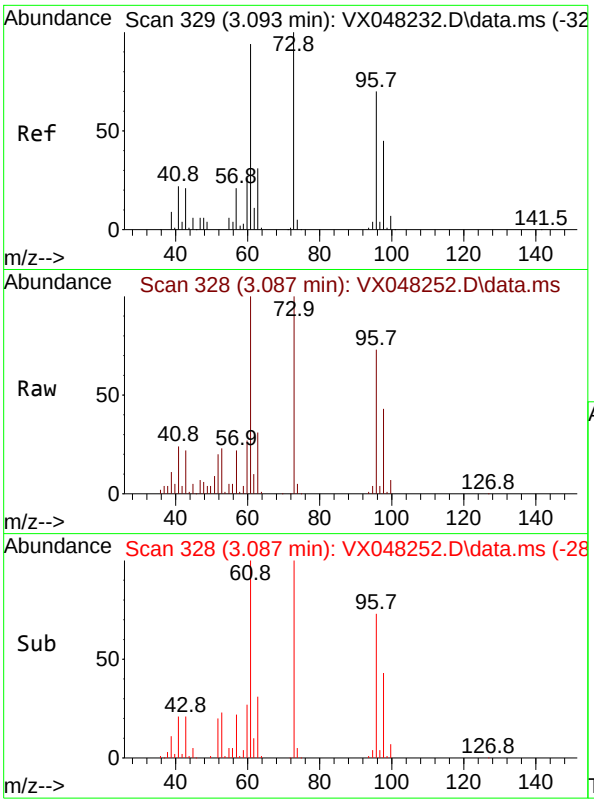


#20
Methylene Chloride
Concen: 47.460 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 84 Resp: 80164

Ion	Ratio	Lower	Upper
84	100		
49	116.6	104.1	156.1
51	37.6	31.3	46.9
86	60.9	51.3	76.9



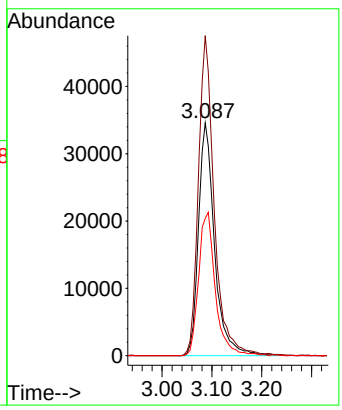


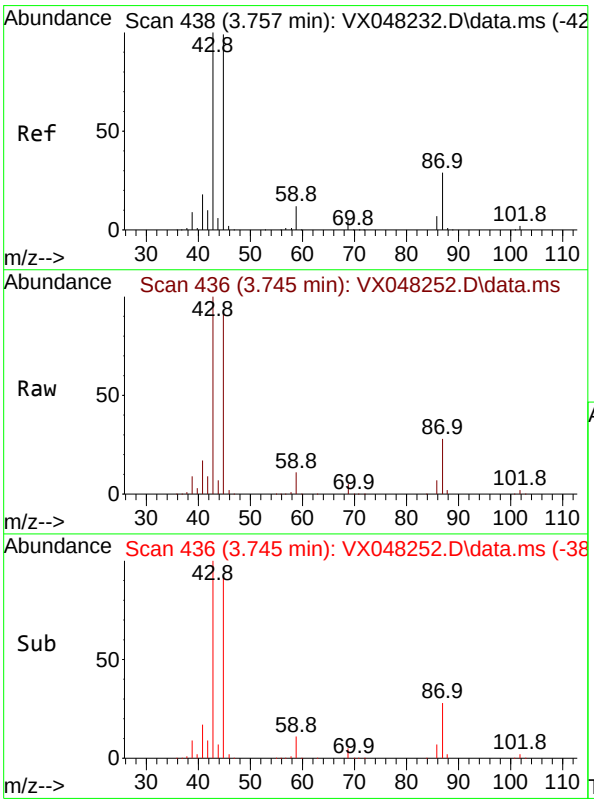
#21
trans-1,2-Dichloroethene
Concen: 46.681 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 77587

Ion	Ratio	Lower	Upper
96	100		
61	137.4	111.9	167.9
98	59.0	51.2	76.8

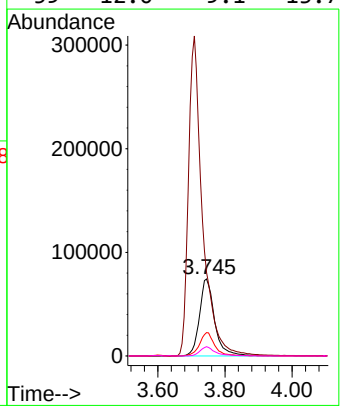


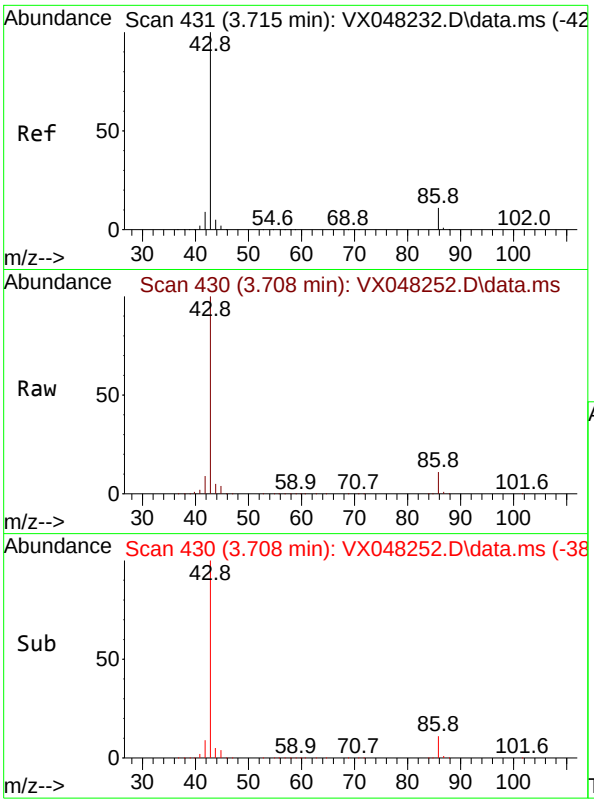


#22
Diisopropyl ether
Concen: 46.439 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 45 Resp: 232684

Ion	Ratio	Lower	Upper
45	100		
43	107.9	89.8	134.8
87	30.2	20.6	31.0
59	12.0	9.1	13.7



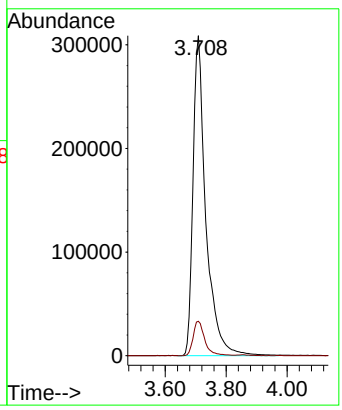


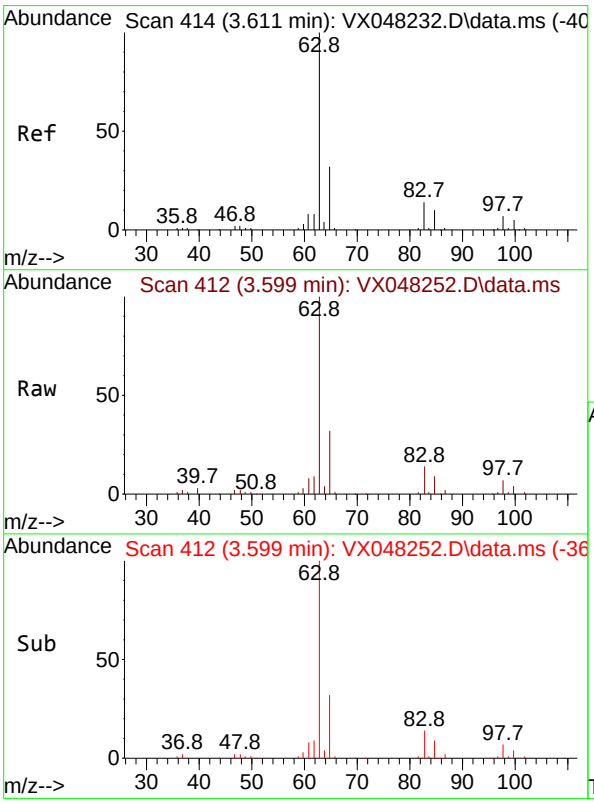
#23
Vinyl Acetate
Concen: 226.065 ug/l
RT: 3.708 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 904806

Ion	Ratio	Lower	Upper
43	100		
86	10.7	7.9	11.9

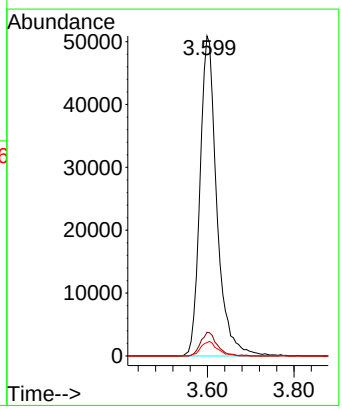


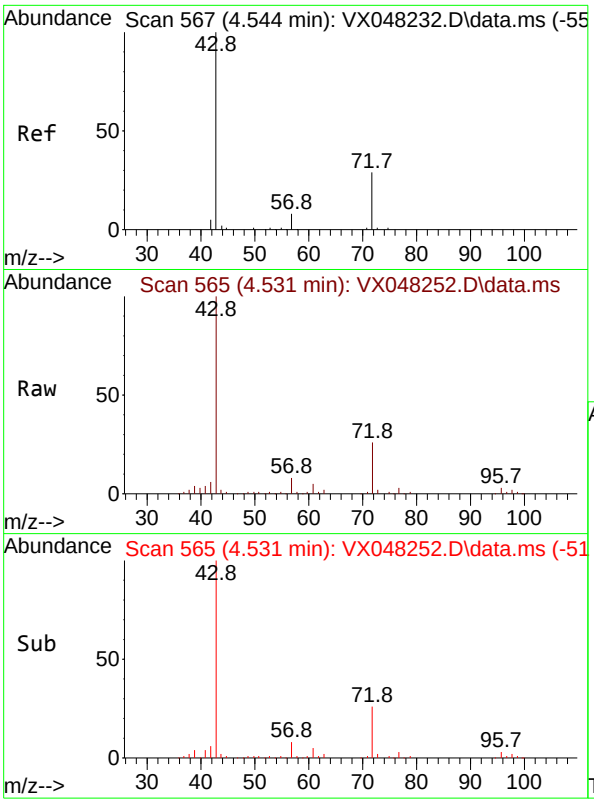


#24
1,1-Dichloroethane
Concen: 45.296 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 63 Resp: 137234

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.5	10.6
100	4.2	2.1	6.3



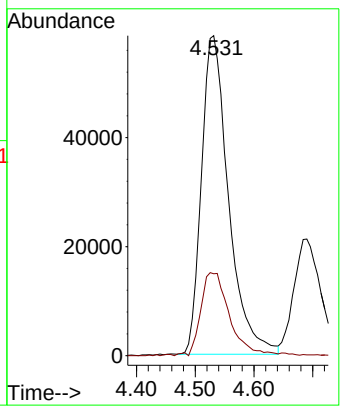


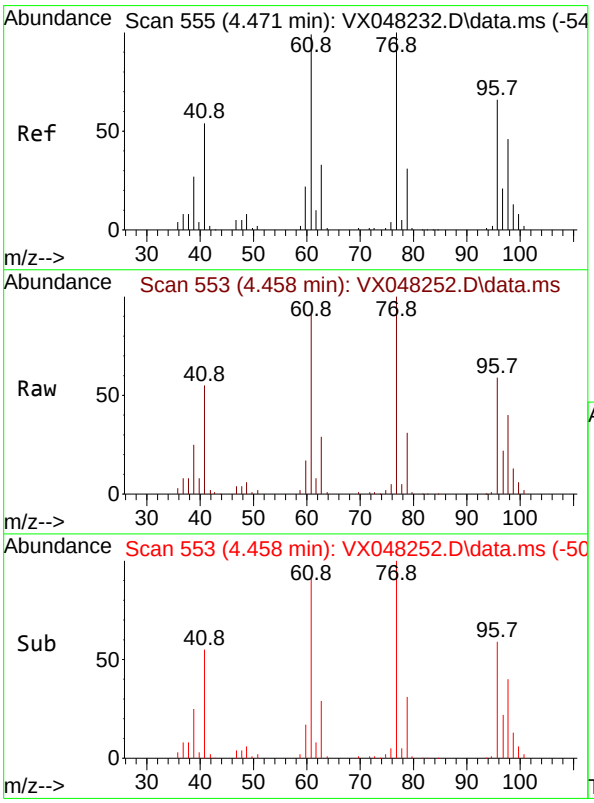
#25
2-Butanone
Concen: 213.793 ug/l
RT: 4.531 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 187588

Ion	Ratio	Lower	Upper
43	100		
72	24.7	19.9	29.9

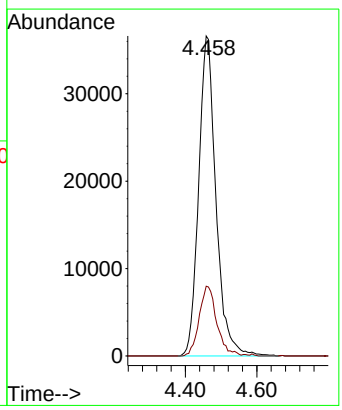


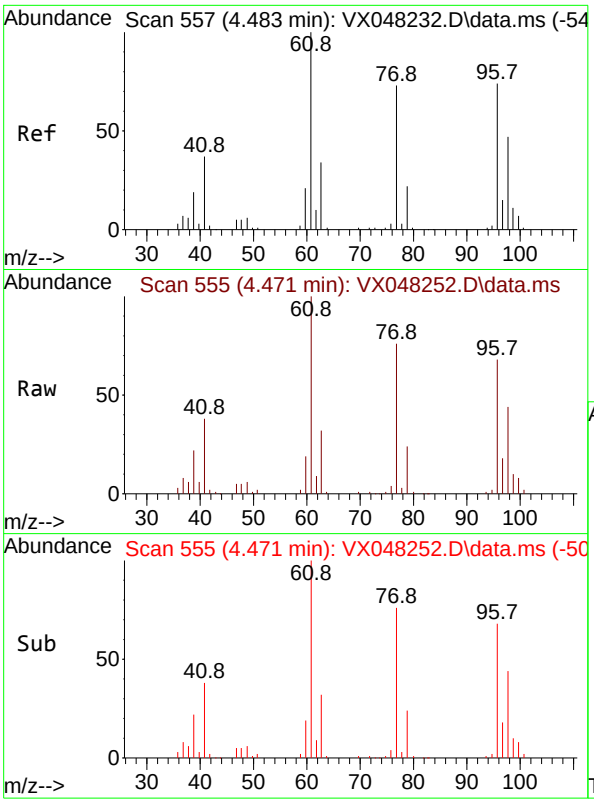


#26
2,2-Dichloropropane
Concen: 44.950 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 77 Resp: 122921

Ion	Ratio	Lower	Upper
77	100		
97	22.1	11.1	33.3



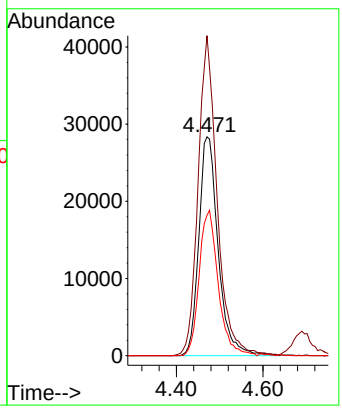


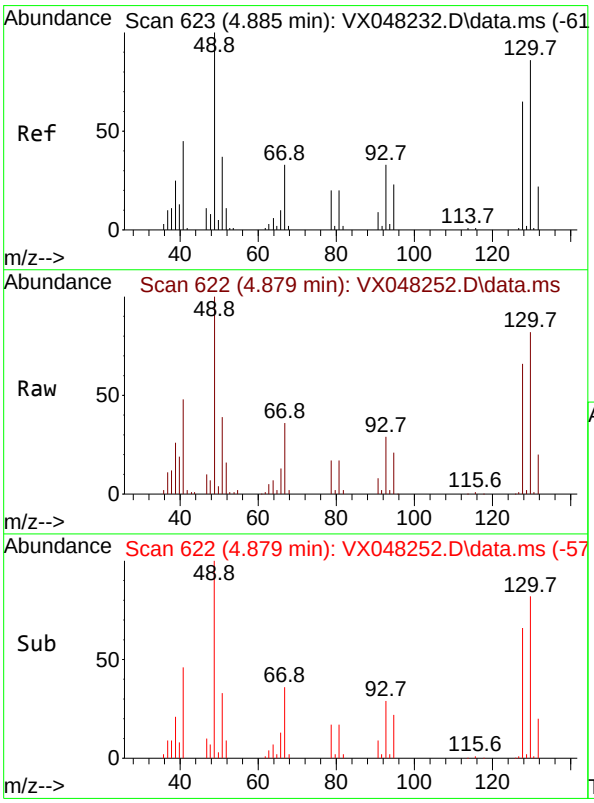
#27
cis-1,2-Dichloroethene
Concen: 45.309 ug/l
RT: 4.471 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 87886

Ion	Ratio	Lower	Upper
96	100		
61	144.2	0.0	294.2
98	65.5	0.0	128.4

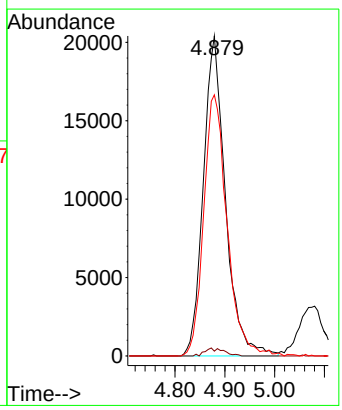


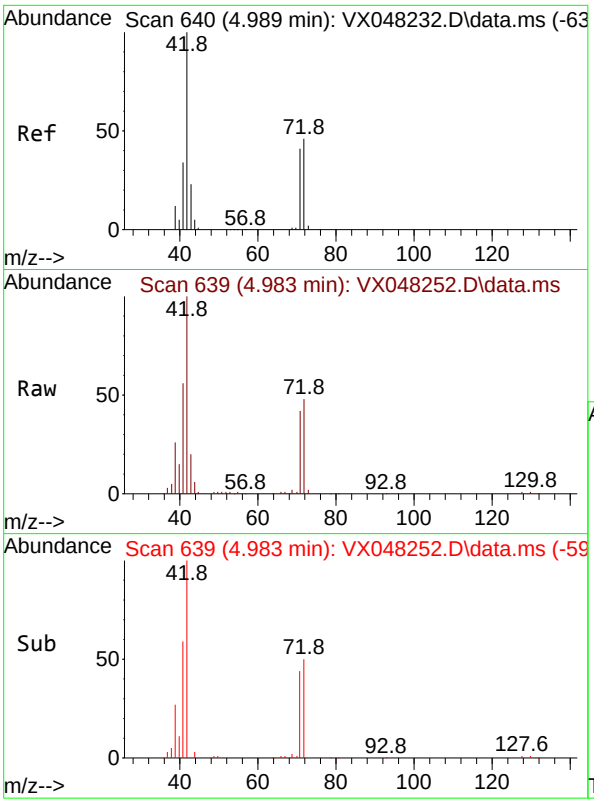


#28
Bromochloromethane
Concen: 49.917 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 49 Resp: 62707

Ion	Ratio	Lower	Upper
49	100		
129	1.1	0.0	4.4
130	86.4	59.3	88.9



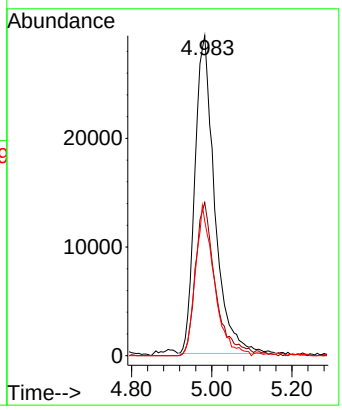


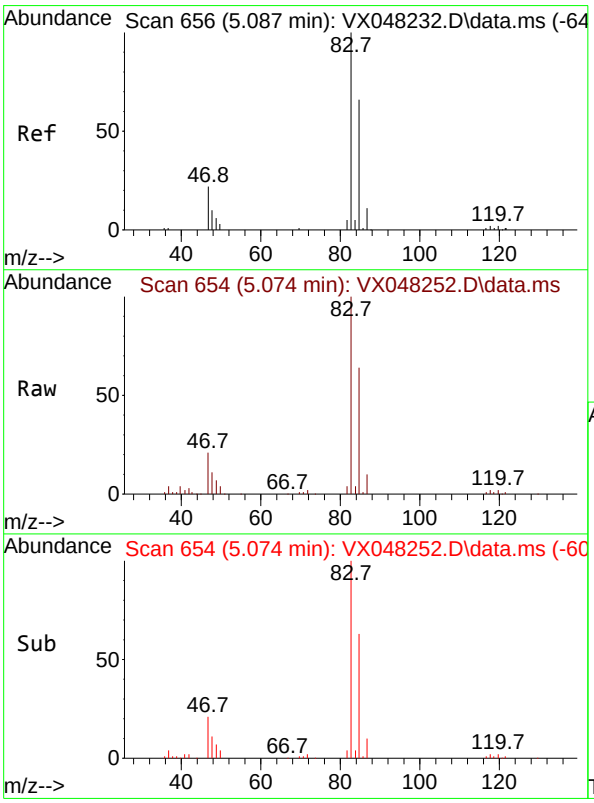
#29
Tetrahydrofuran
Concen: 190.379 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 100043

Ion	Ratio	Lower	Upper
42	100		
72	48.5	35.3	52.9
71	44.9	32.2	48.4

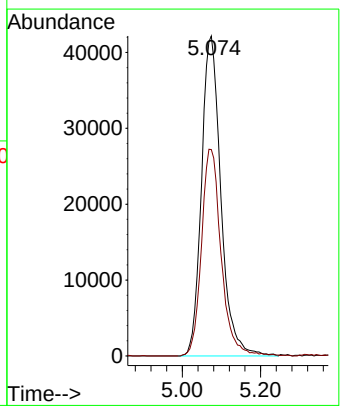


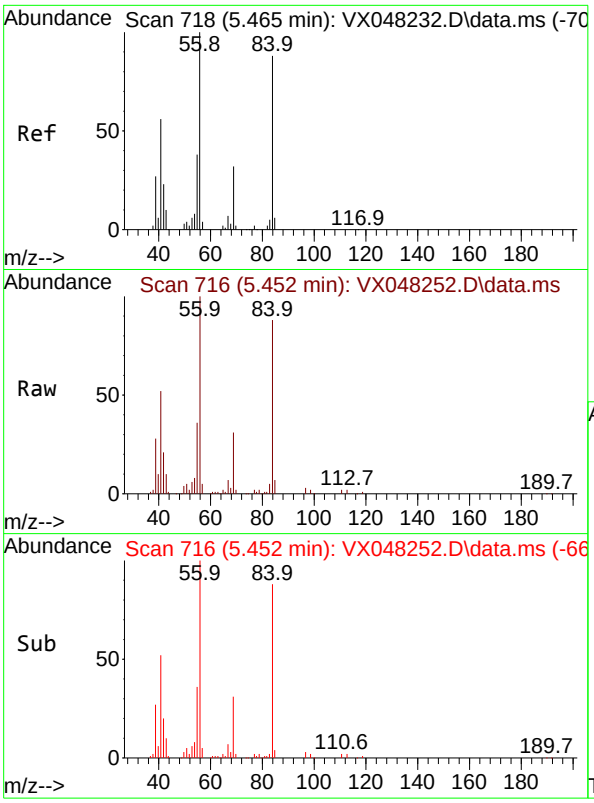


#30
Chloroform
Concen: 44.807 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 83 Resp: 145033

Ion	Ratio	Lower	Upper
83	100		
85	64.5	50.1	75.1



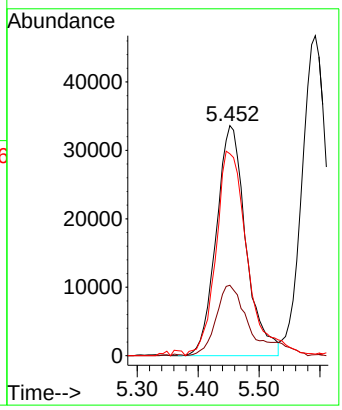


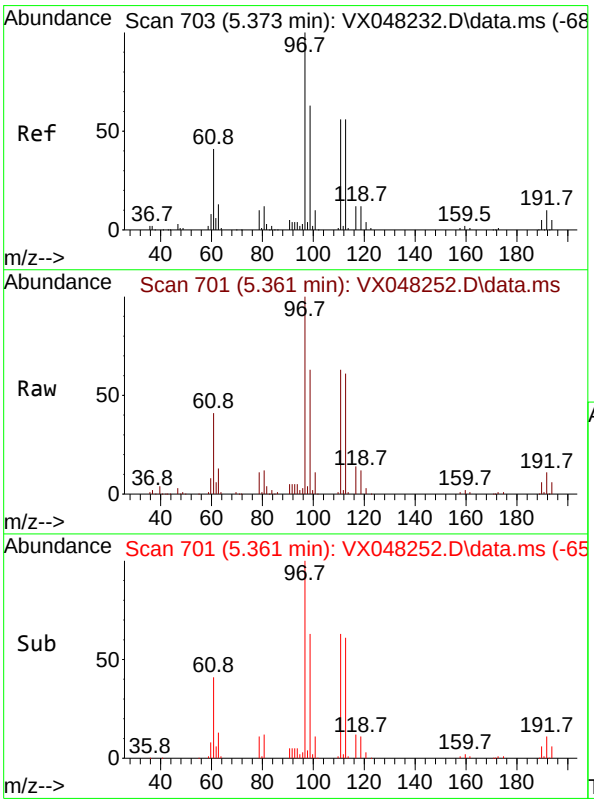
#31
Cyclohexane
Concen: 45.286 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 113590

Ion	Ratio	Lower	Upper
56	100		
69	30.2	23.0	34.6
84	85.6	64.6	97.0

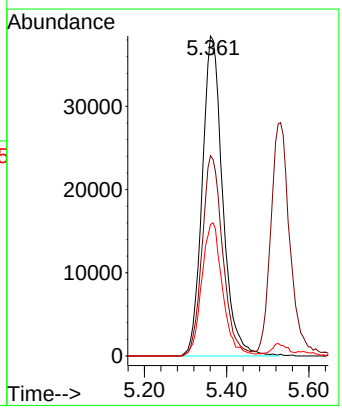


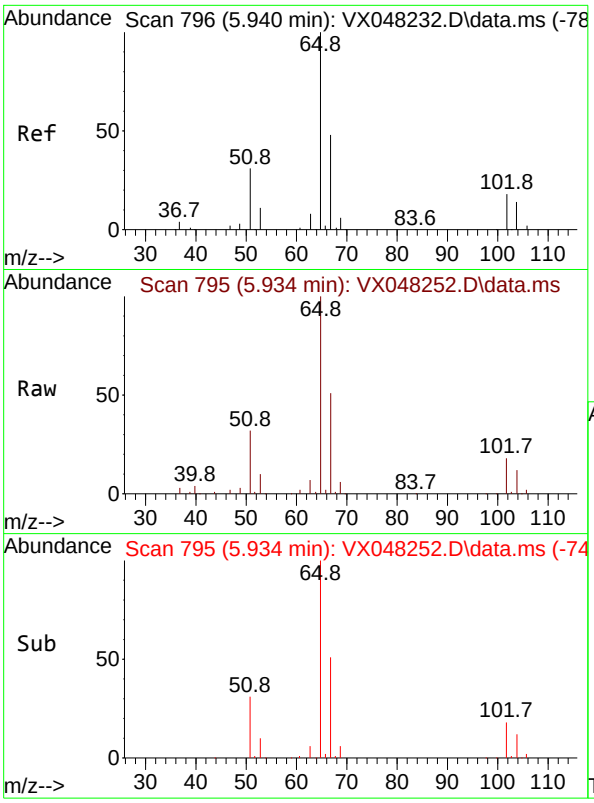


#32
1,1,1-Trichloroethane
Concen: 44.462 ug/l
RT: 5.361 min Scan# 701
Delta R.T. -0.012 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 97 Resp: 132637

Ion	Ratio	Lower	Upper
97	100		
99	63.1	51.7	77.5
61	42.3	34.8	52.2



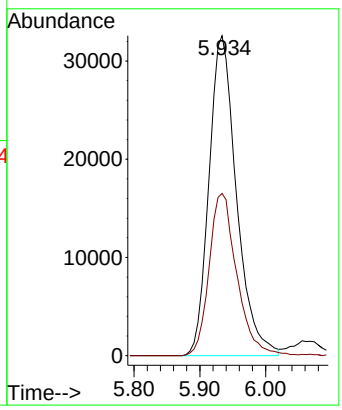


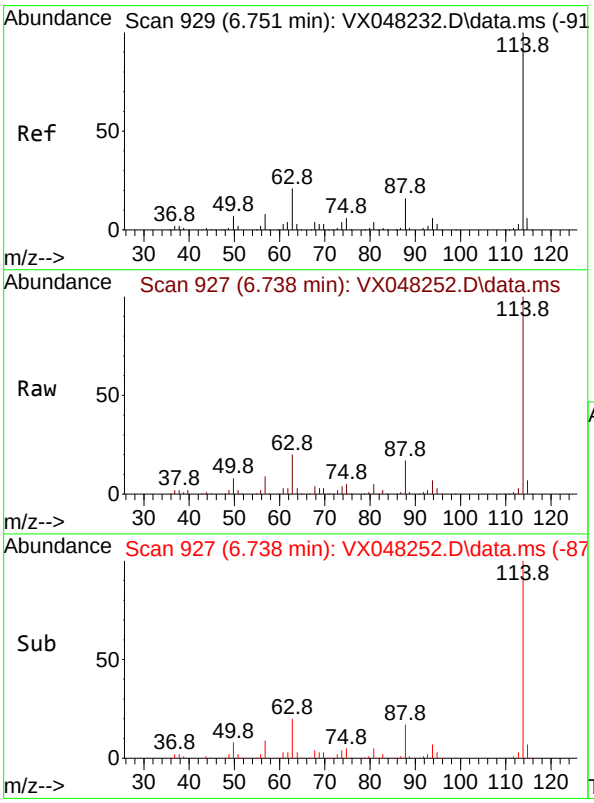
#33
1,2-Dichloroethane-d4
Concen: 46.938 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 94847

Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	105.0

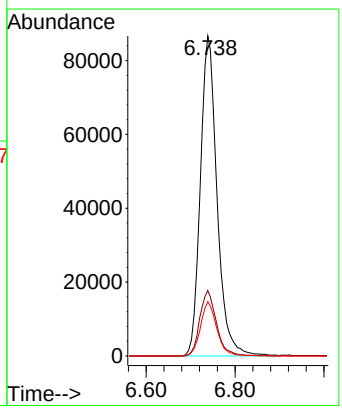


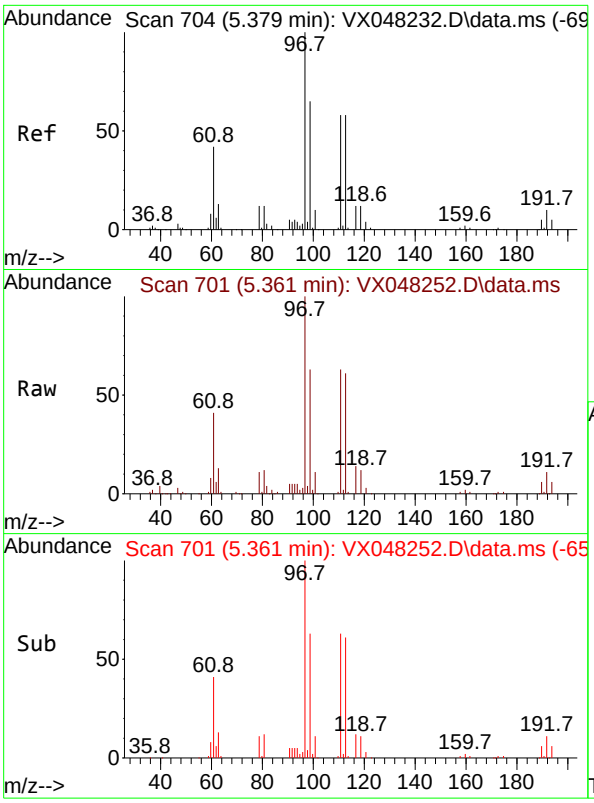


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.738 min Scan# 927
Delta R.T. -0.007 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:114 Resp: 227103

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	43.2
88	16.9	0.0	33.6



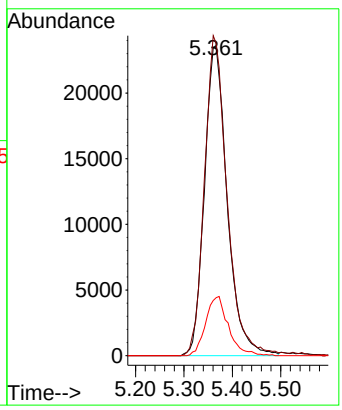


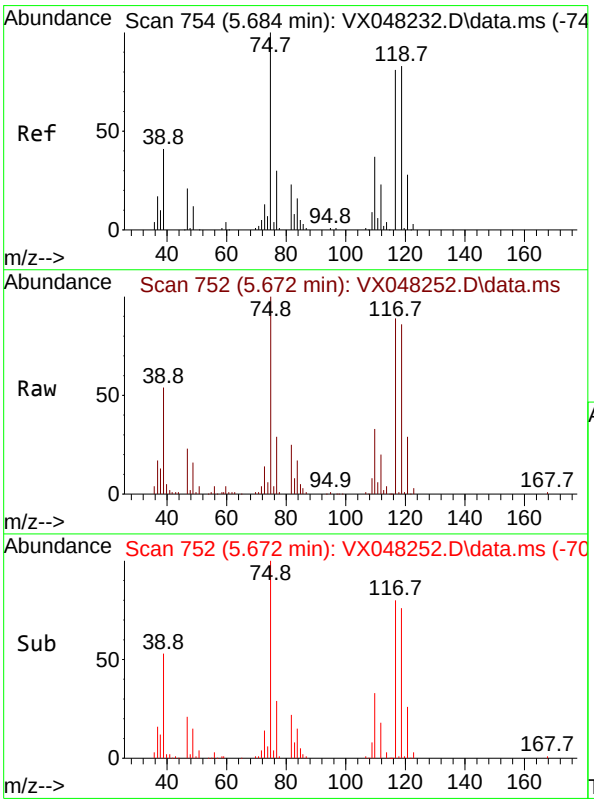
#35
Dibromofluoromethane
Concen: 49.844 ug/l
RT: 5.361 min Scan# 7(
Delta R.T. -0.012 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 77279

Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.2	123.4
192	19.1	15.1	22.7

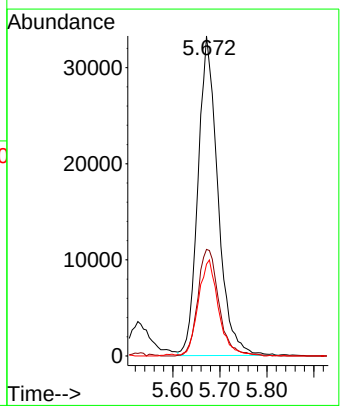


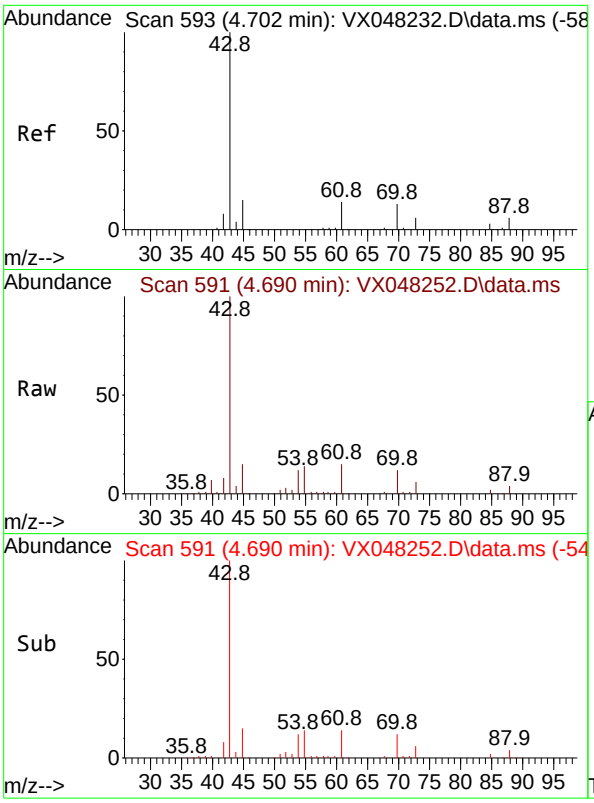


#36
1,1-Dichloropropene
Concen: 44.412 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 75 Resp: 97868

Ion	Ratio	Lower	Upper
75	100		
110	35.5	17.7	53.1
77	30.8	24.3	36.5



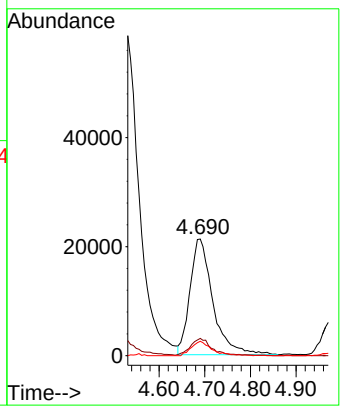


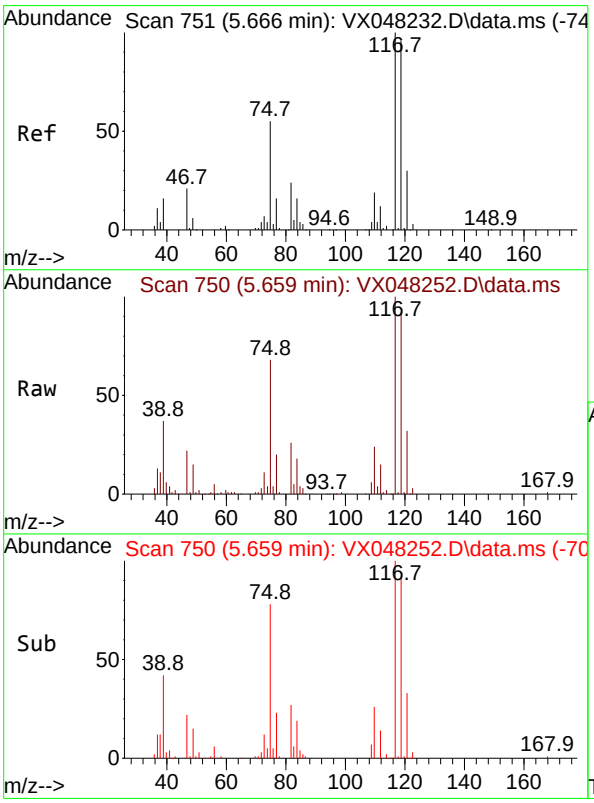
#37
Ethyl Acetate
Concen: 40.418 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 73825

Ion	Ratio	Lower	Upper
43	100		
61	13.4	10.6	15.8
70	11.1	7.8	11.6

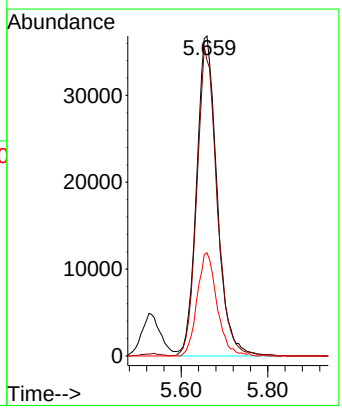


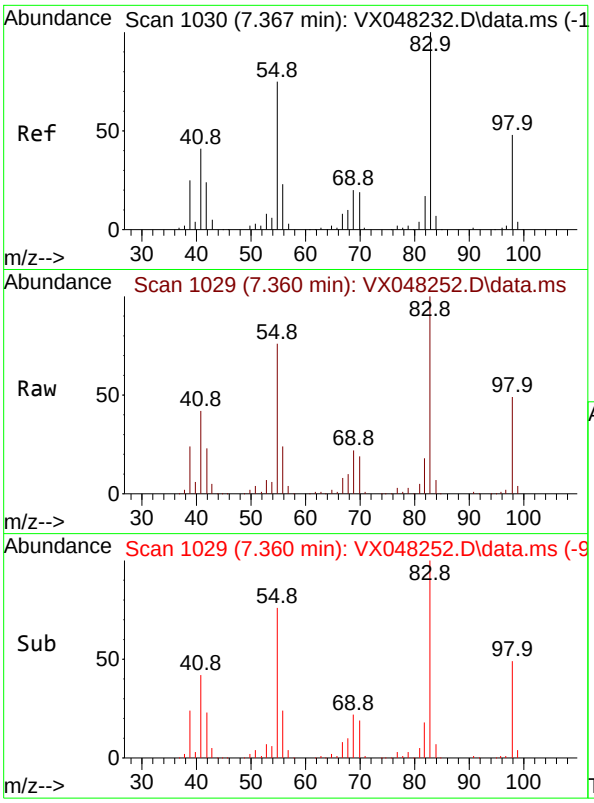


#38
Carbon Tetrachloride
Concen: 44.491 ug/l
RT: 5.659 min Scan# 750
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:117 Resp: 120960

Ion	Ratio	Lower	Upper
117	100		
119	92.4	77.2	115.8
121	32.2	24.8	37.2



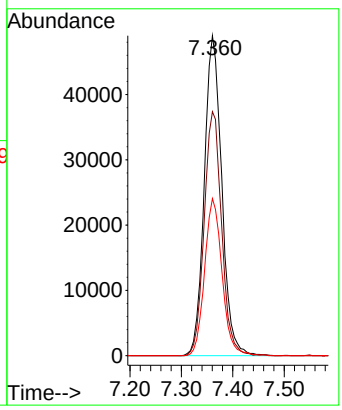


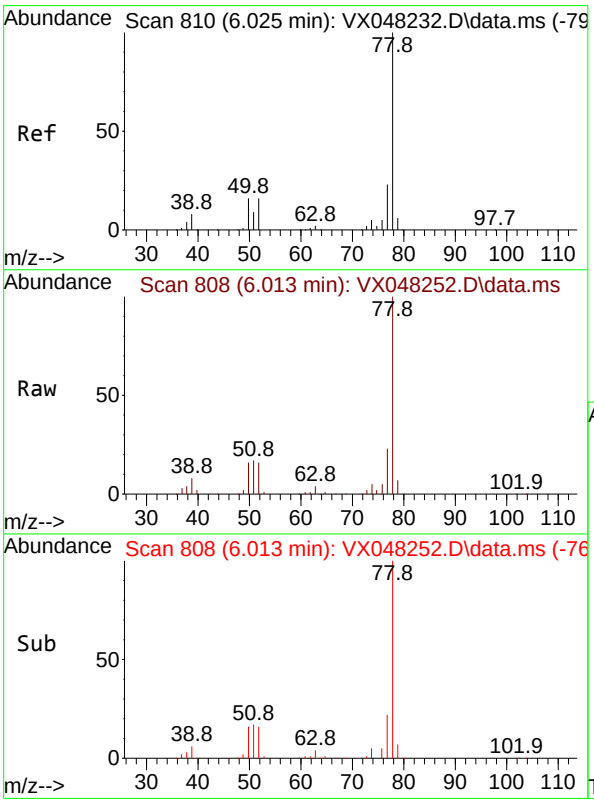
#39
Methylcyclohexane
Concen: 44.497 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 115804

Ion	Ratio	Lower	Upper
83	100		
55	76.3	66.2	99.2
98	49.1	38.9	58.3

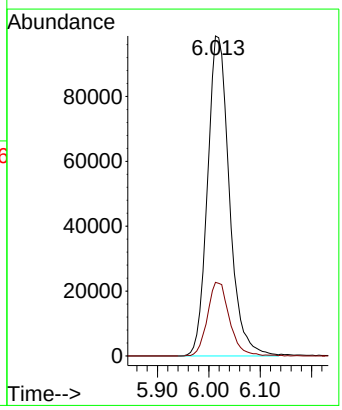


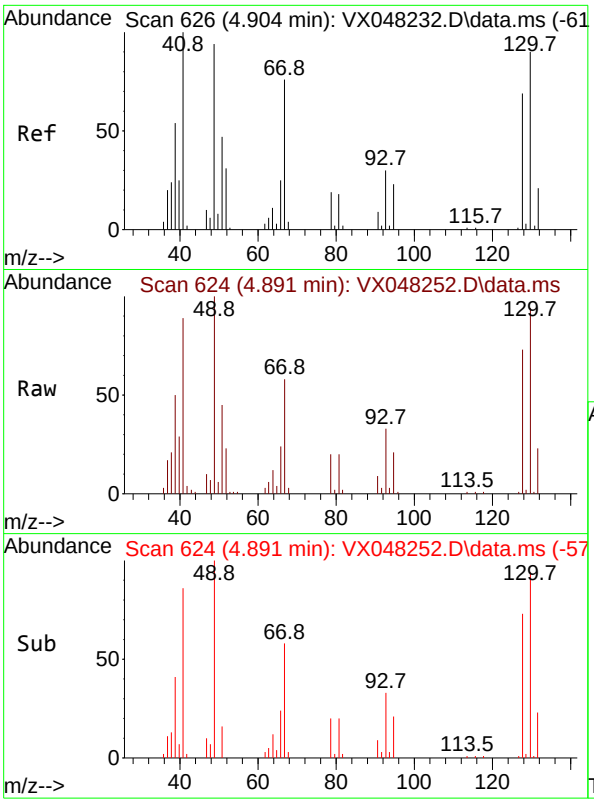


#40
Benzene
Concen: 45.424 ug/l
RT: 6.013 min Scan# 808
Delta R.T. -0.012 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 78 Resp: 290616

Ion	Ratio	Lower	Upper
78	100		
77	23.0	19.3	28.9



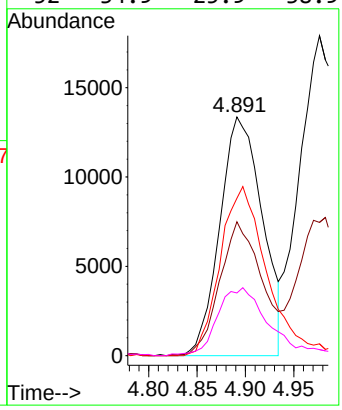


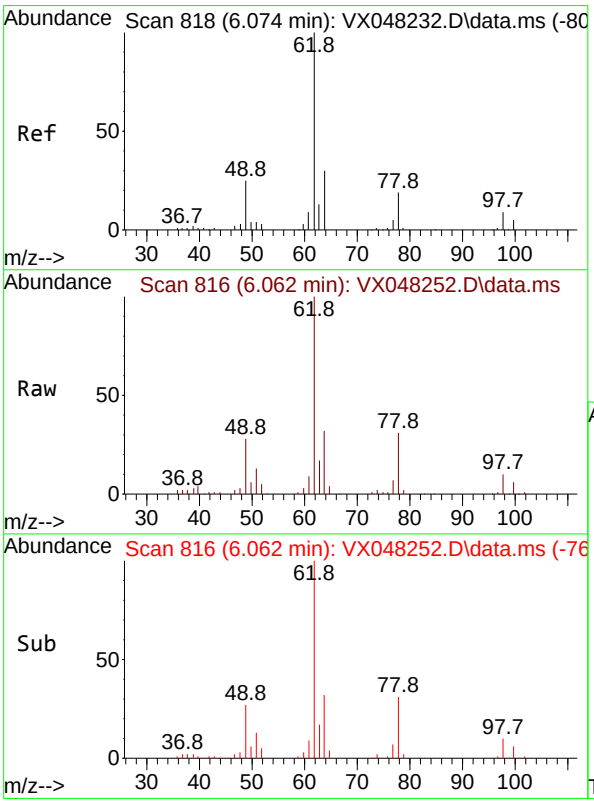
#41
Methacrylonitrile
Concen: 42.707 ug/l
RT: 4.891 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 40965

Ion	Ratio	Lower	Upper
41	100		
39	55.0	44.0	66.0
67	78.2	58.7	88.1
52	34.9	25.9	38.9

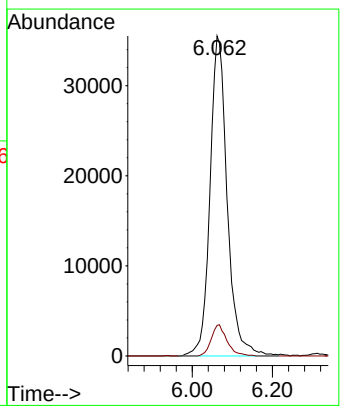


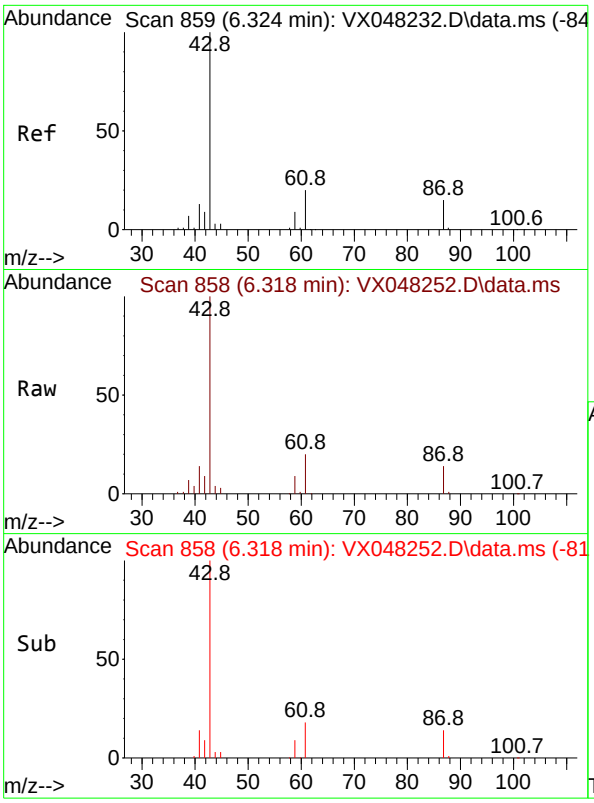


#42
1,2-Dichloroethane
Concen: 44.791 ug/l
RT: 6.062 min Scan# 816
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 62 Resp: 105747

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	17.2



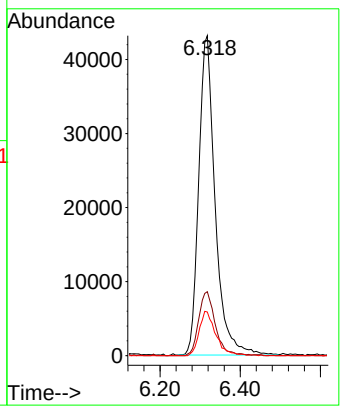


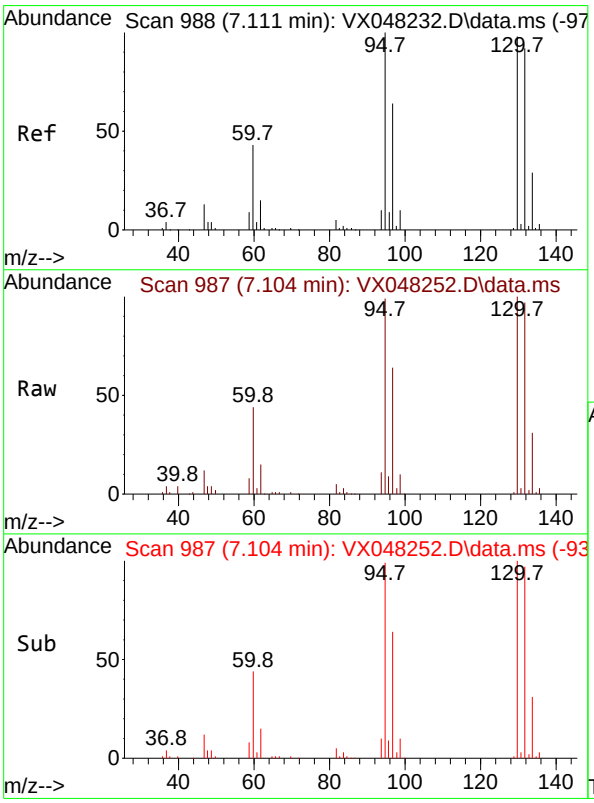
#43
Isopropyl Acetate
Concen: 40.859 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 122589

Ion	Ratio	Lower	Upper
43	100		
61	20.4	14.9	22.3
87	14.0	9.4	14.2

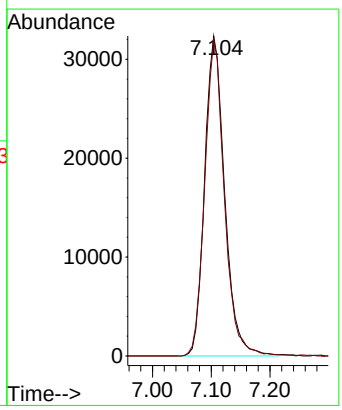


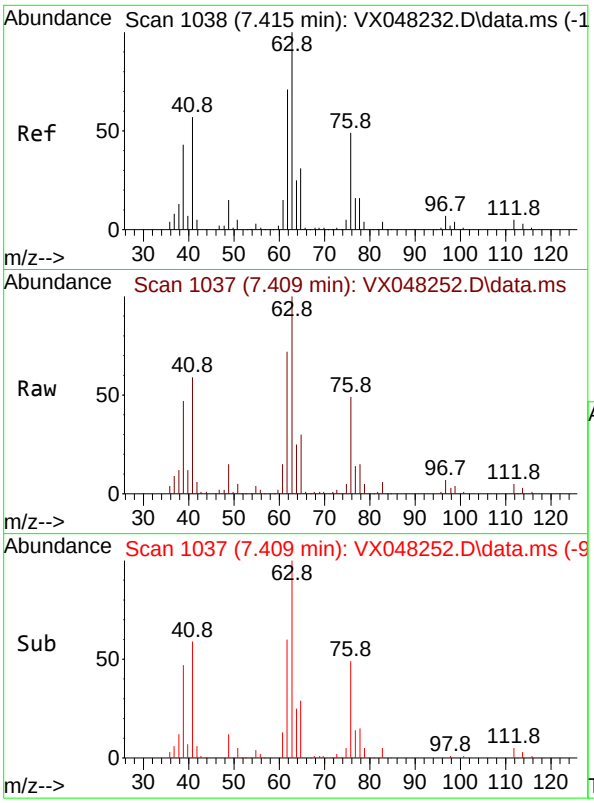


#44
Trichloroethene
Concen: 45.286 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:130 Resp: 76506

Ion	Ratio	Lower	Upper
130	100		
95	108.3	0.0	200.6



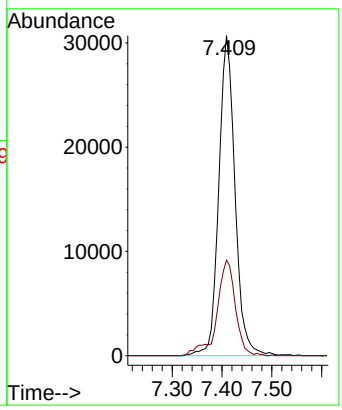


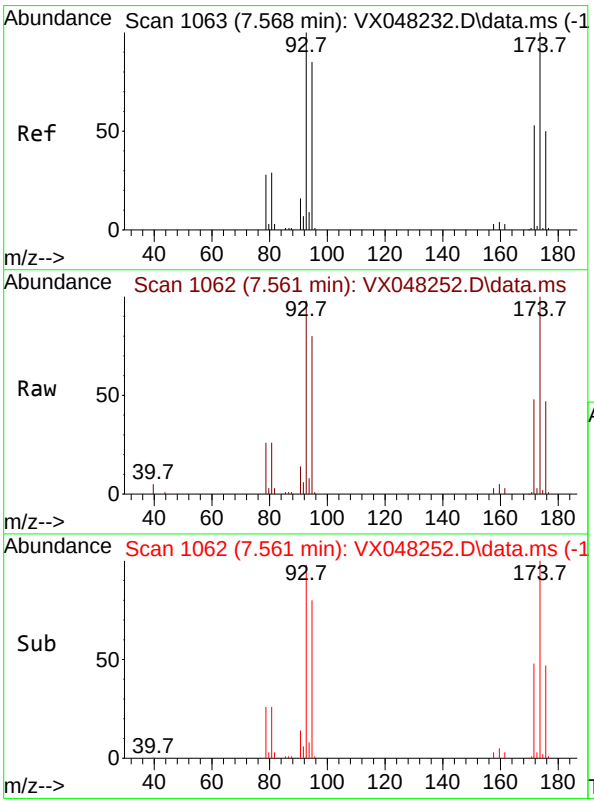
#45
1,2-Dichloropropane
Concen: 45.586 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 69342

Ion	Ratio	Lower	Upper
63	100		
65	29.8	24.1	36.1

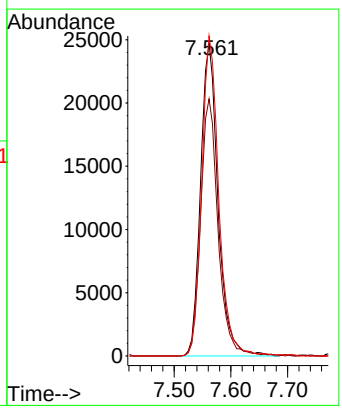


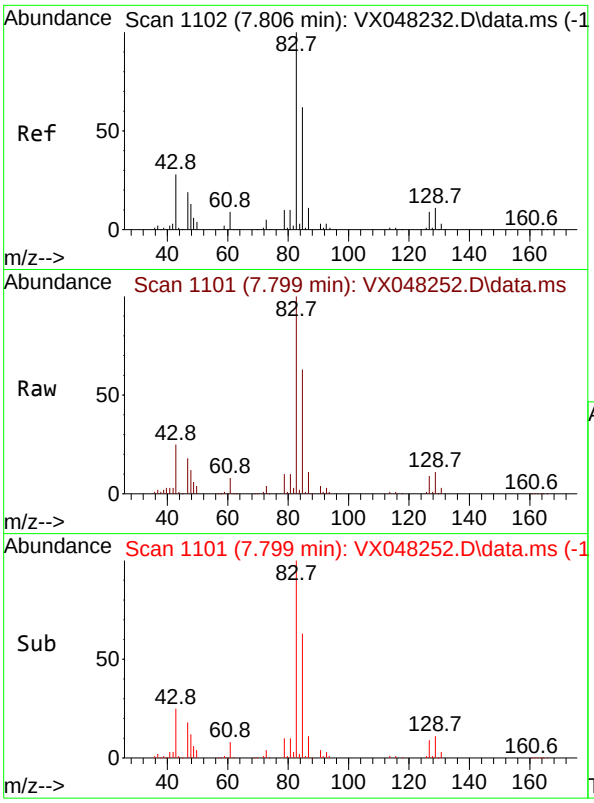


#46
Dibromomethane
Concen: 44.649 ug/l
RT: 7.561 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 93 Resp: 52913

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.9	98.9
174	100.1	71.7	107.5



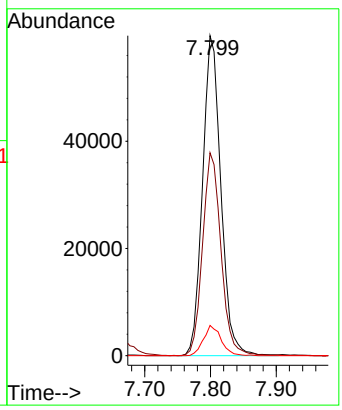


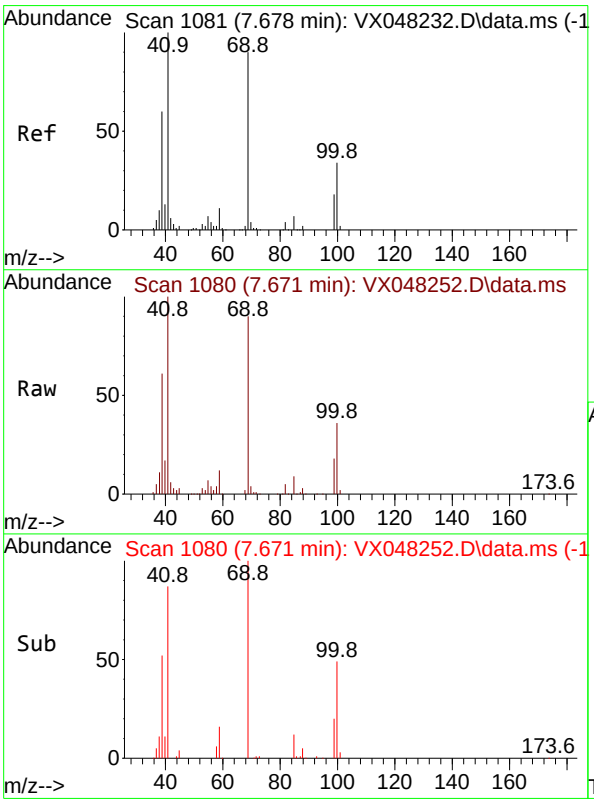
#47
Bromodichloromethane
Concen: 45.265 ug/l
RT: 7.799 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 115823

Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.2	78.4
127	9.4	7.3	10.9

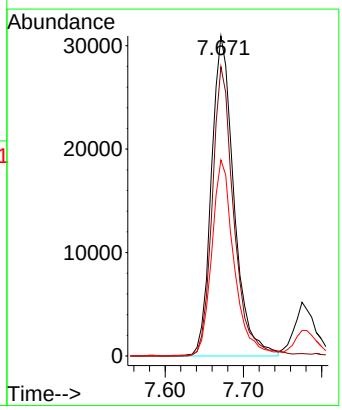


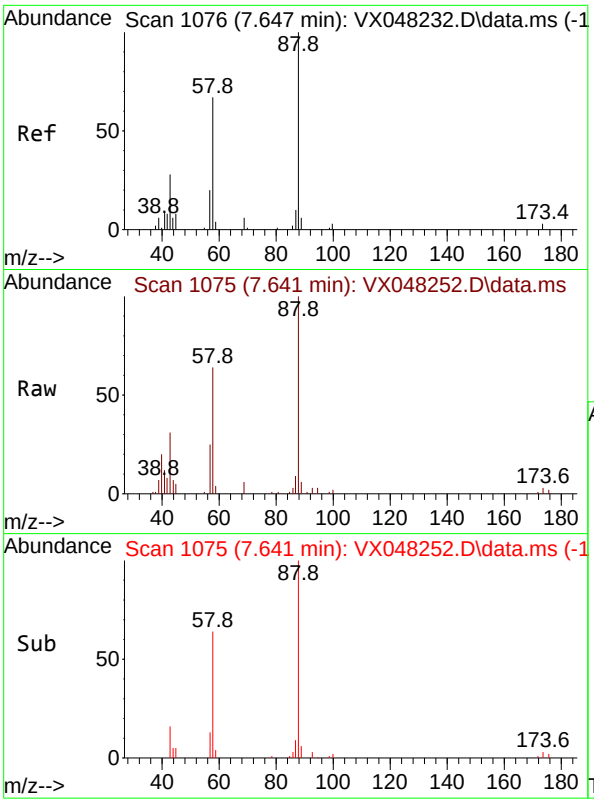


#48
Methyl methacrylate
Concen: 41.000 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 41 Resp: 62073

Ion	Ratio	Lower	Upper
41	100		
69	86.3	63.4	95.0
39	60.7	47.1	70.7



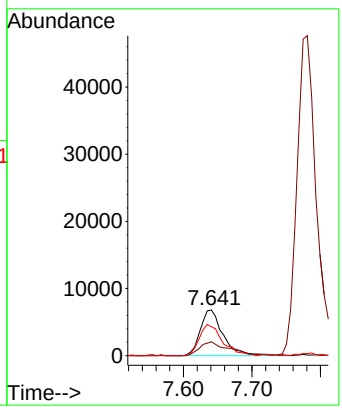


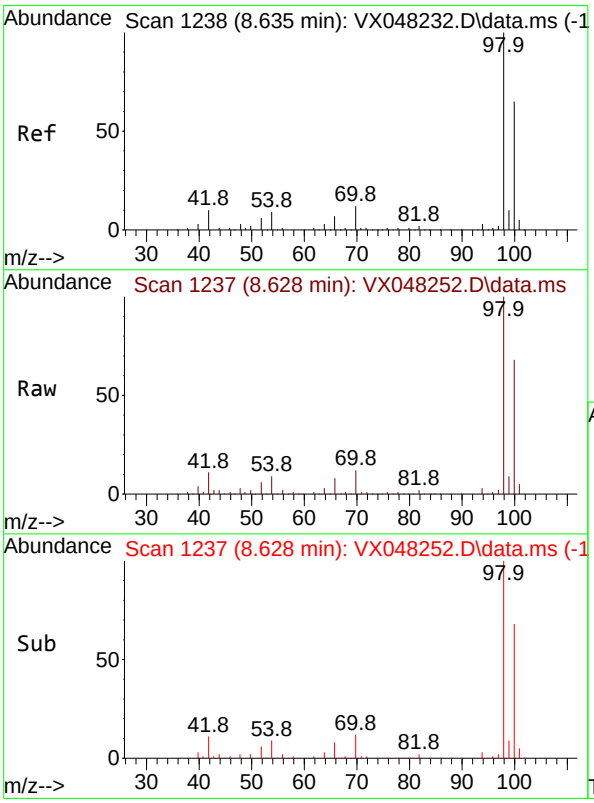
#49
1,4-Dioxane
Concen: 782.834 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 15658

Ion	Ratio	Lower	Upper
88	100		
43	39.9	35.0	52.4
58	69.5	61.9	92.9

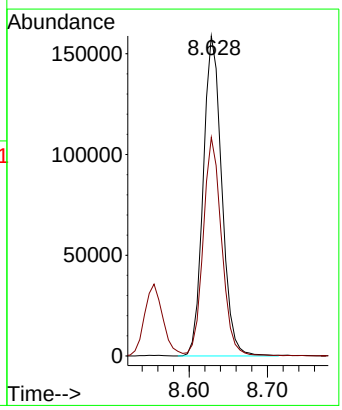


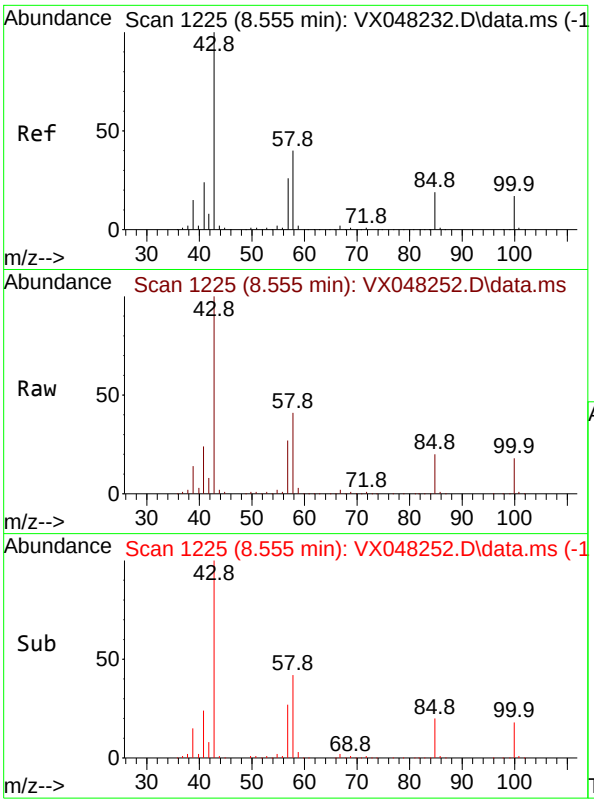


#50
Toluene-d8
Concen: 48.070 ug/l
RT: 8.628 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 98 Resp: 261228

Ion	Ratio	Lower	Upper
98	100		
100	67.7	53.0	79.4



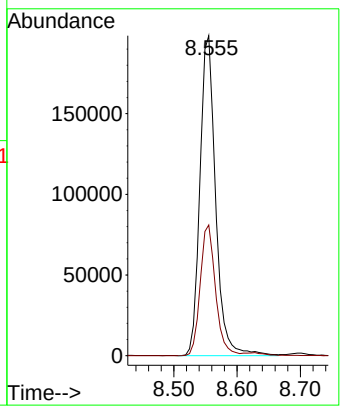


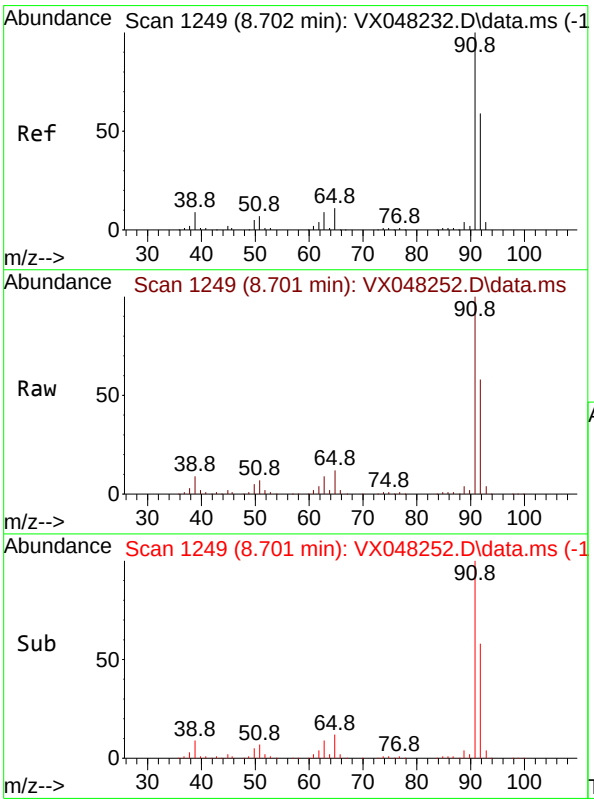
#51
4-Methyl-2-Pentanone
Concen: 198.518 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 343412

Ion	Ratio	Lower	Upper
43	100		
58	39.7	29.5	44.3

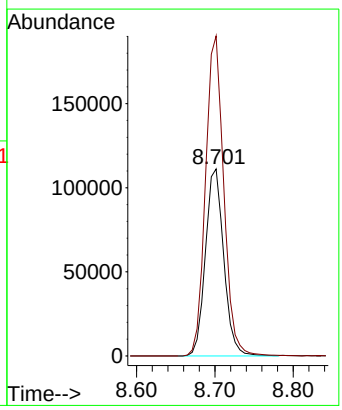


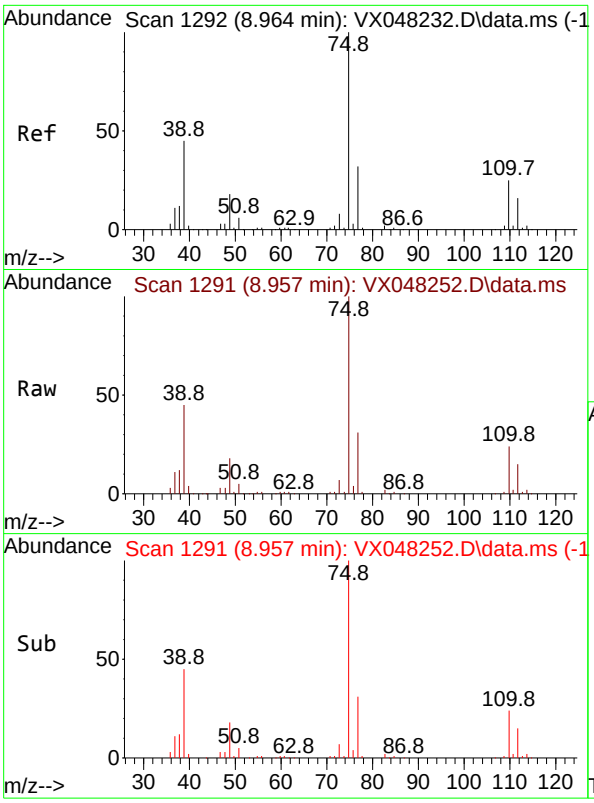


#52
Toluene
Concen: 44.443 ug/l
RT: 8.701 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 92 Resp: 180638

Ion	Ratio	Lower	Upper
92	100		
91	170.1	136.1	204.1



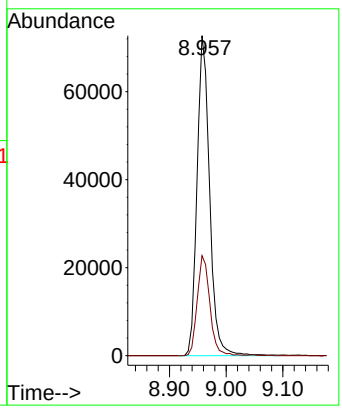


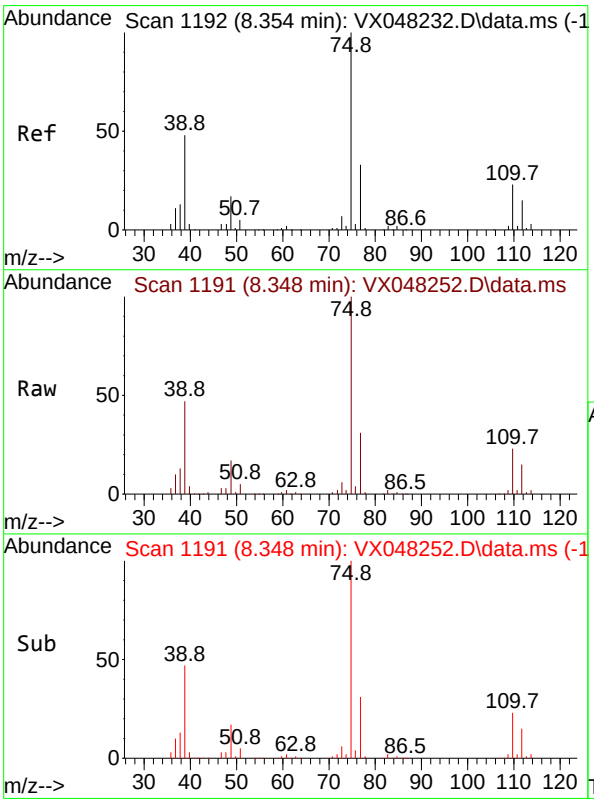
#53
t-1,3-Dichloropropene
Concen: 45.367 ug/l
RT: 8.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 111868

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.0	37.6

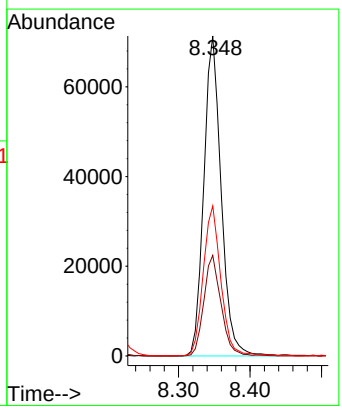


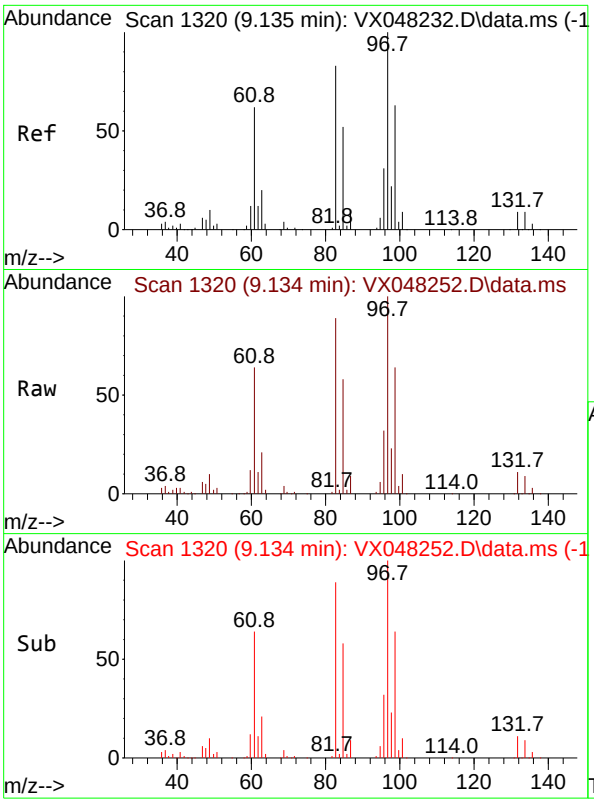


#54
cis-1,3-Dichloropropene
Concen: 45.199 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 75 Resp: 120247

Ion	Ratio	Lower	Upper
75	100		
77	31.5	24.9	37.3
39	46.8	42.6	64.0



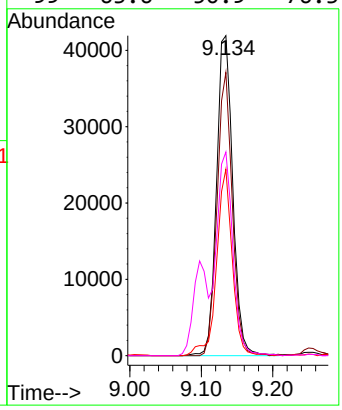


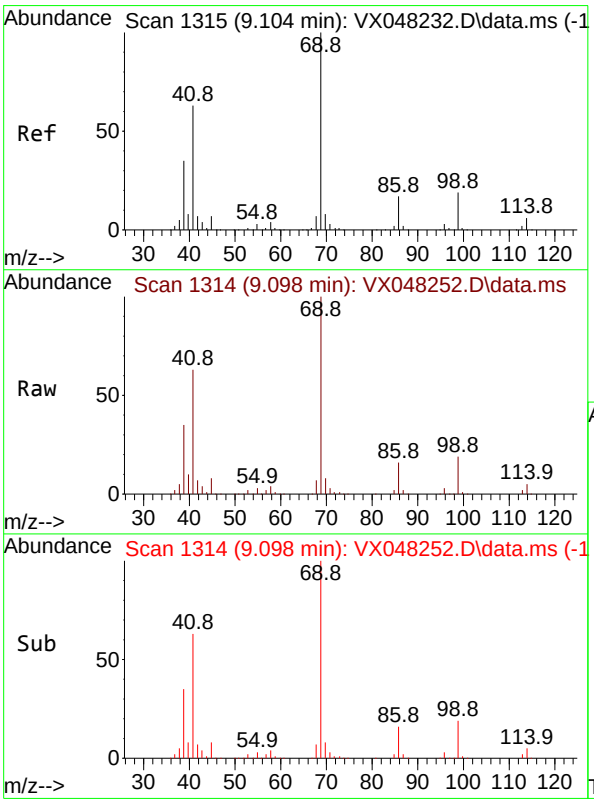
#55
1,1,2-Trichloroethane
Concen: 43.758 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 66141

Ion	Ratio	Lower	Upper
97	100		
83	88.5	70.6	105.8
85	58.3	45.0	67.6
99	63.6	50.9	76.3

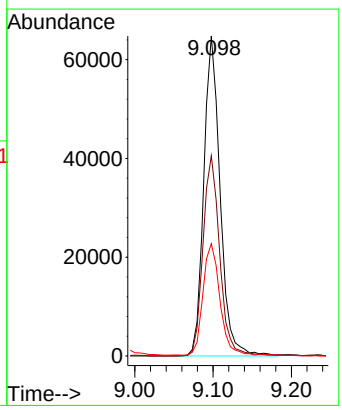


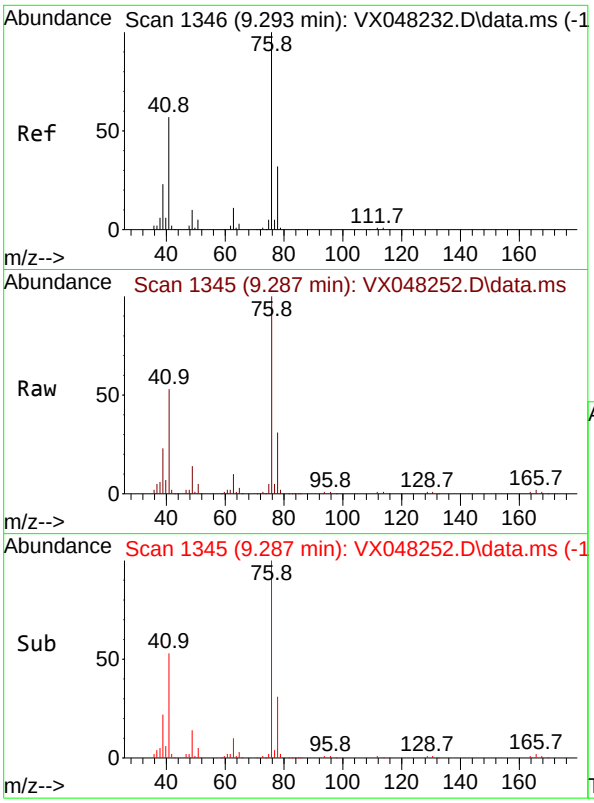


#56
Ethyl methacrylate
Concen: 42.533 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 69 Resp: 94033

Ion	Ratio	Lower	Upper
69	100		
41	64.2	56.0	84.0
39	37.2	31.6	47.4



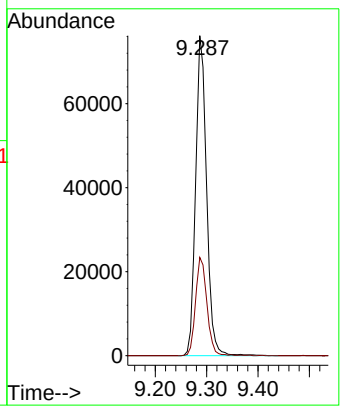


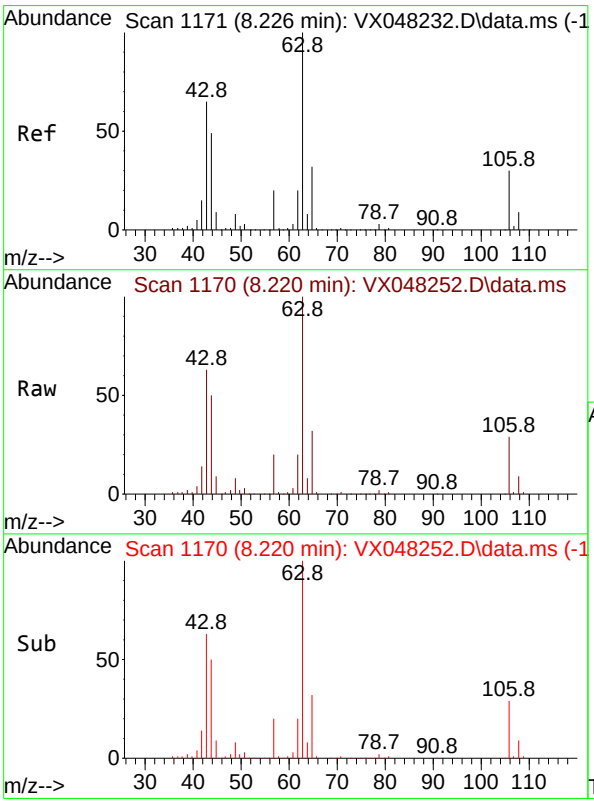
#57
1,3-Dichloropropane
Concen: 43.726 ug/l
RT: 9.287 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 112894

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.4	38.0

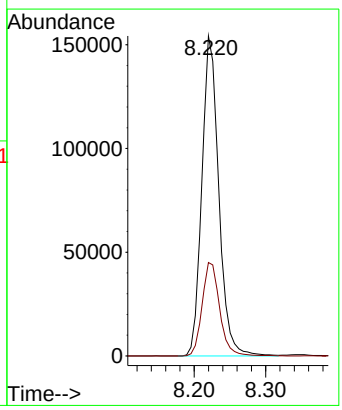


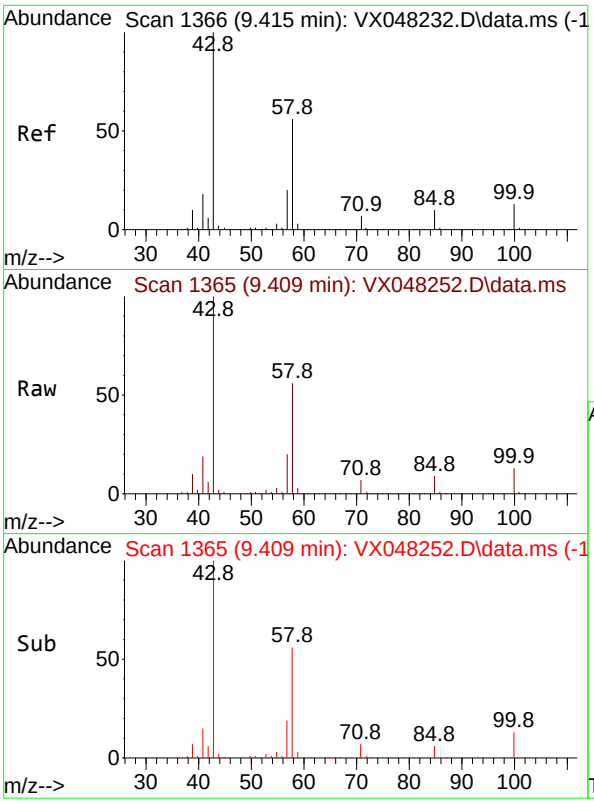


#58
2-Chloroethyl Vinyl ether
Concen: 213.469 ug/l
RT: 8.220 min Scan# 1170
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 63 Resp: 253467

Ion	Ratio	Lower	Upper
63	100		
106	30.3	22.2	33.2



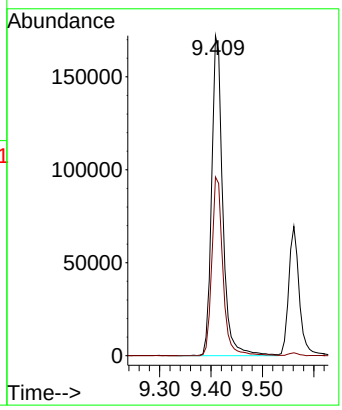


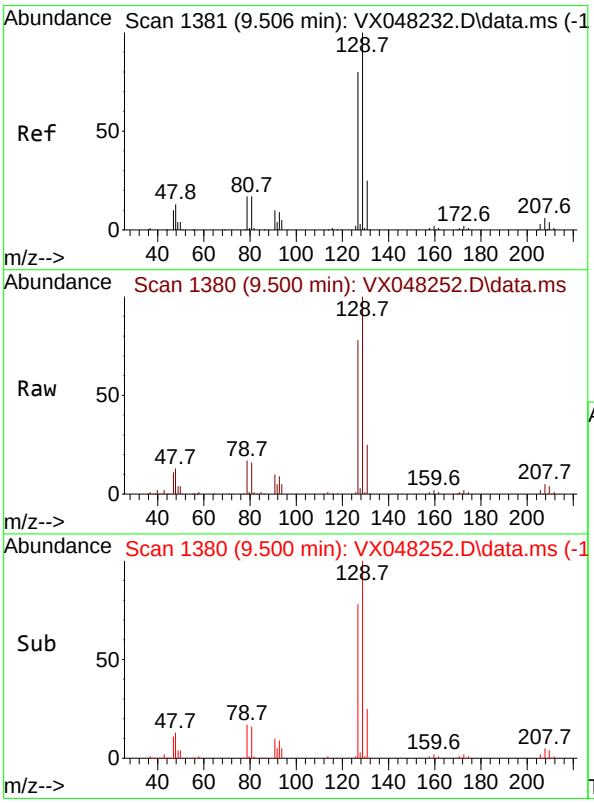
#59
2-Hexanone
Concen: 213.881 ug/l
RT: 9.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 257988

Ion	Ratio	Lower	Upper
43	100		
58	55.8	26.3	78.8

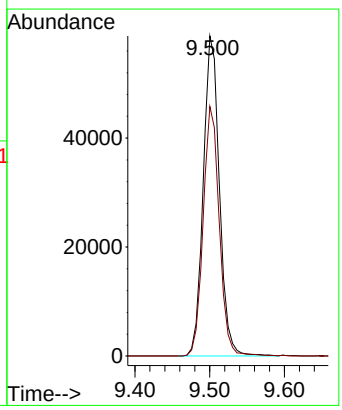


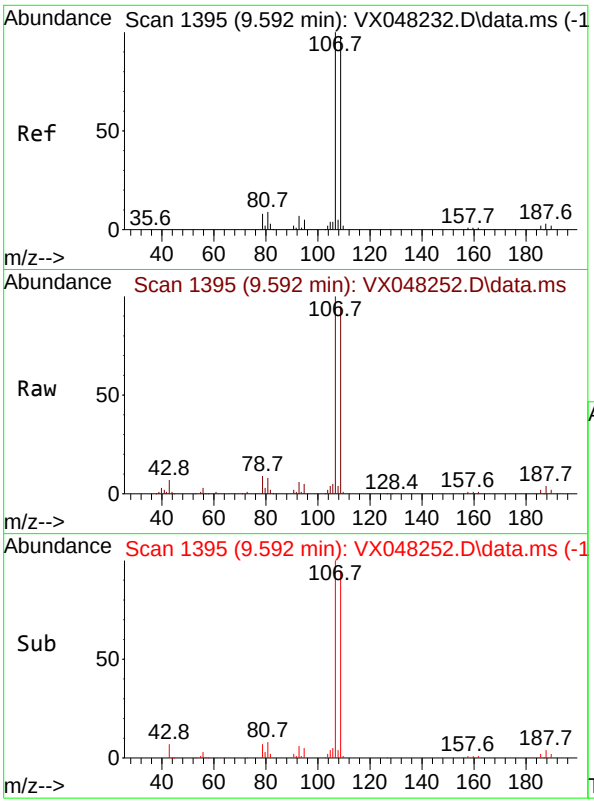


#60
Dibromochloromethane
Concen: 43.319 ug/l
RT: 9.500 min Scan# 1380
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:129 Resp: 88005

Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.6	115.7



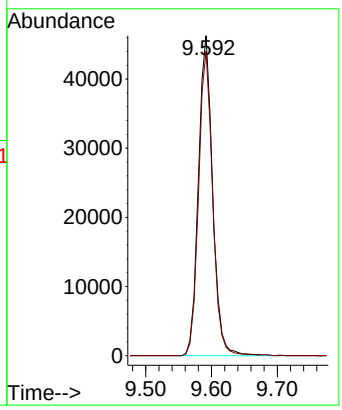


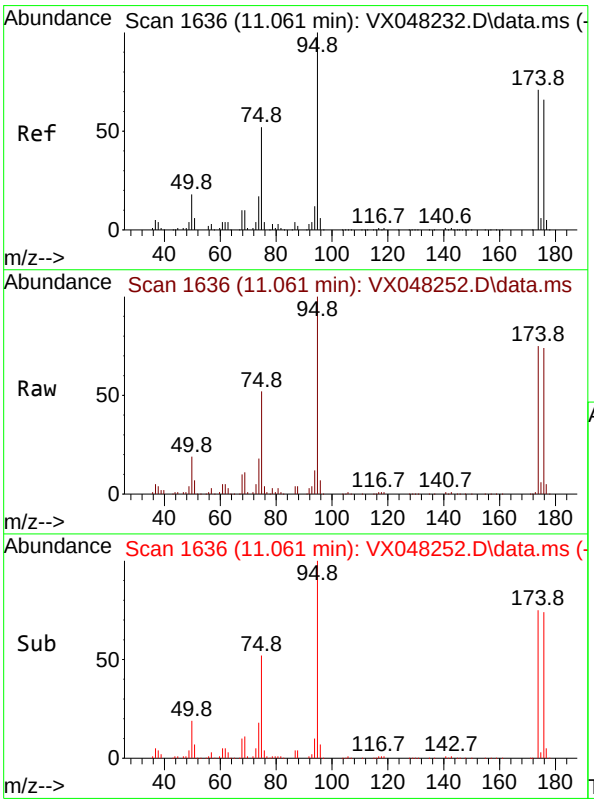
#61
1,2-Dibromoethane
Concen: 43.228 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 69657

Ion	Ratio	Lower	Upper
107	100		
109	94.0	77.0	115.4

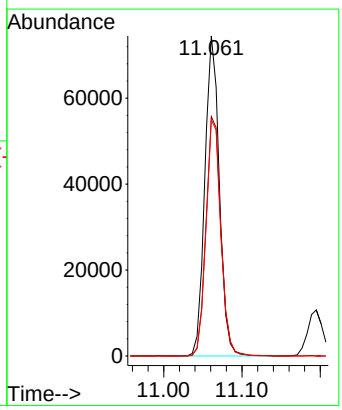


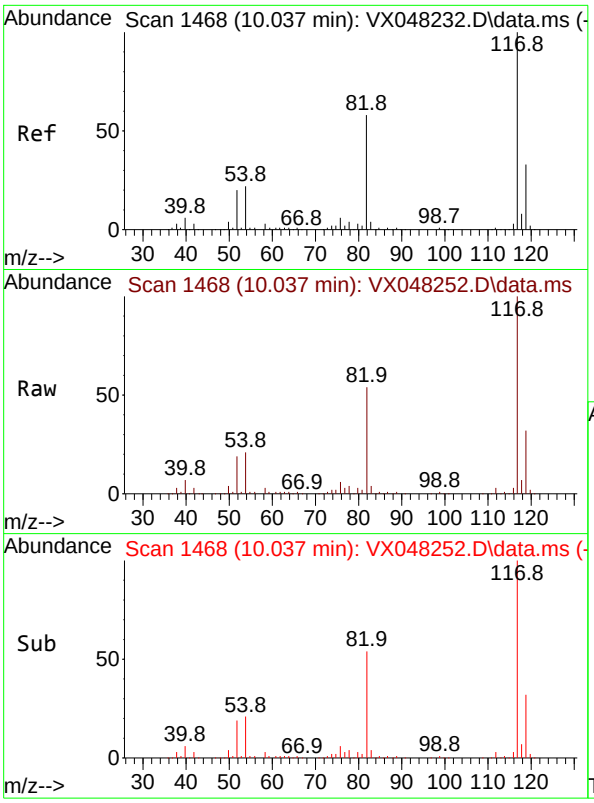


#62
4-Bromofluorobenzene
Concen: 46.072 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 95 Resp: 95248

Ion	Ratio	Lower	Upper
95	100		
174	77.2	0.0	147.8
176	75.3	0.0	142.8



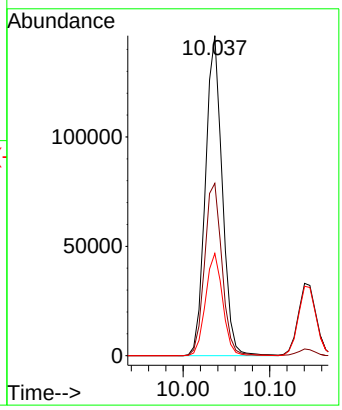


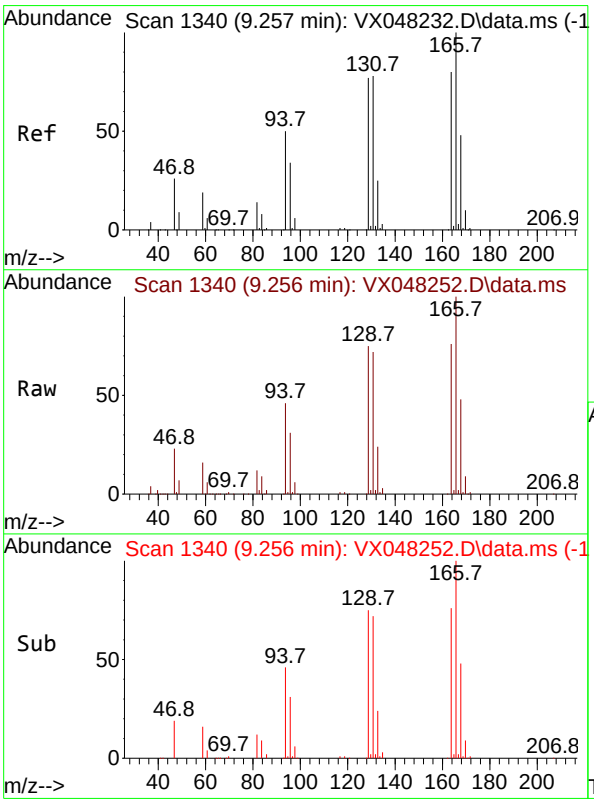
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 197016

Ion	Ratio	Lower	Upper
117	100		
82	53.8	46.5	69.7
119	32.0	25.9	38.9

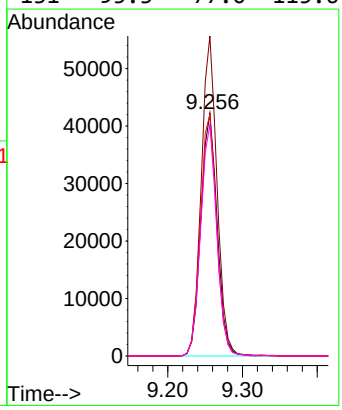


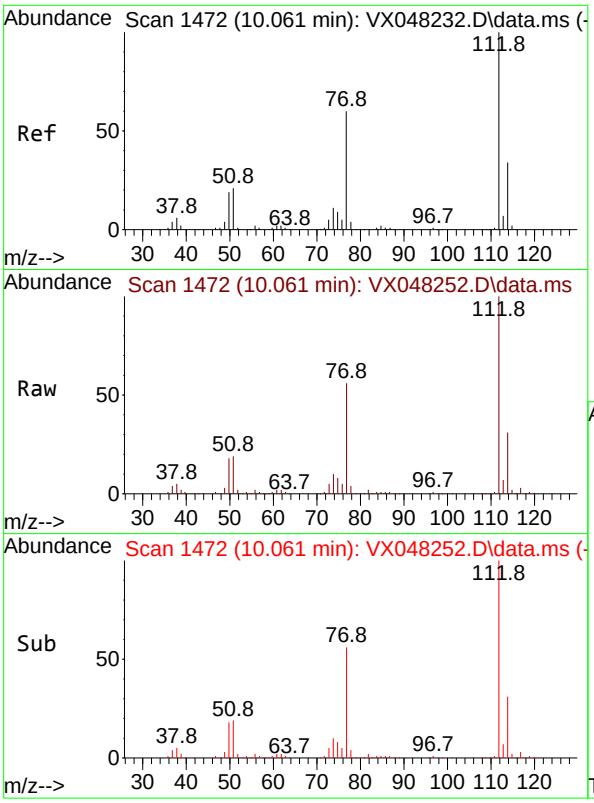


#64
Tetrachloroethene
Concen: 43.569 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:164 Resp: 64080

Ion	Ratio	Lower	Upper
164	100		
166	131.9	104.5	156.7
129	99.5	81.8	122.6
131	95.3	77.0	115.6



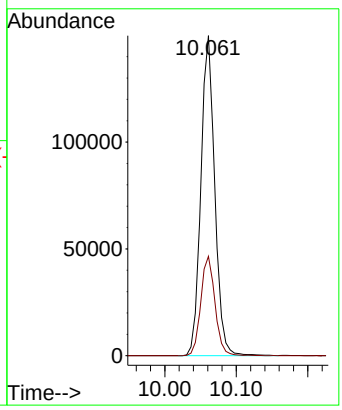


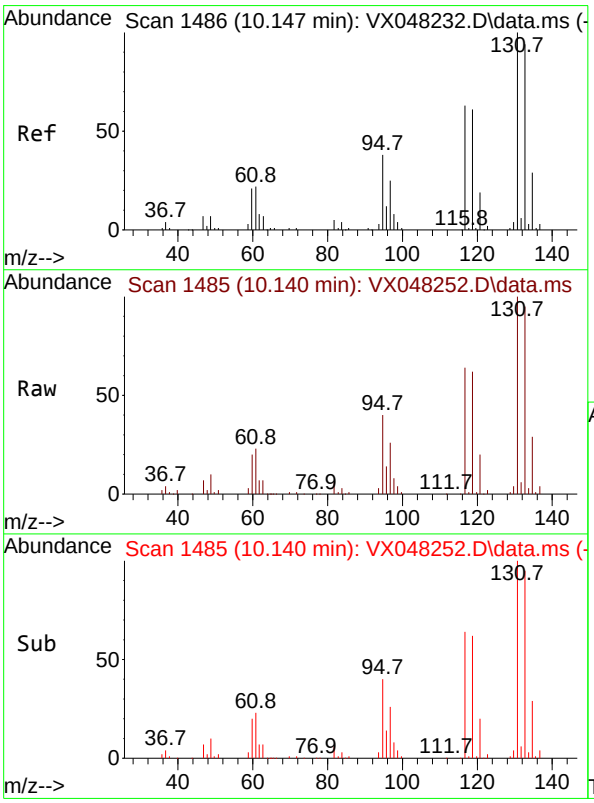
#65
Chlorobenzene
Concen: 45.568 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 201952

Ion	Ratio	Lower	Upper
112	100		
114	31.0	26.2	39.2

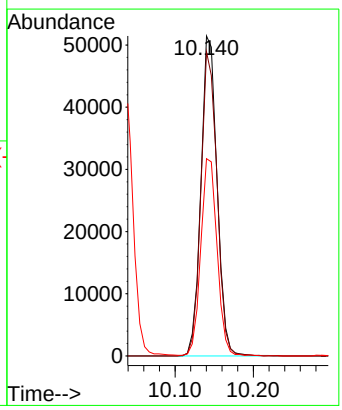


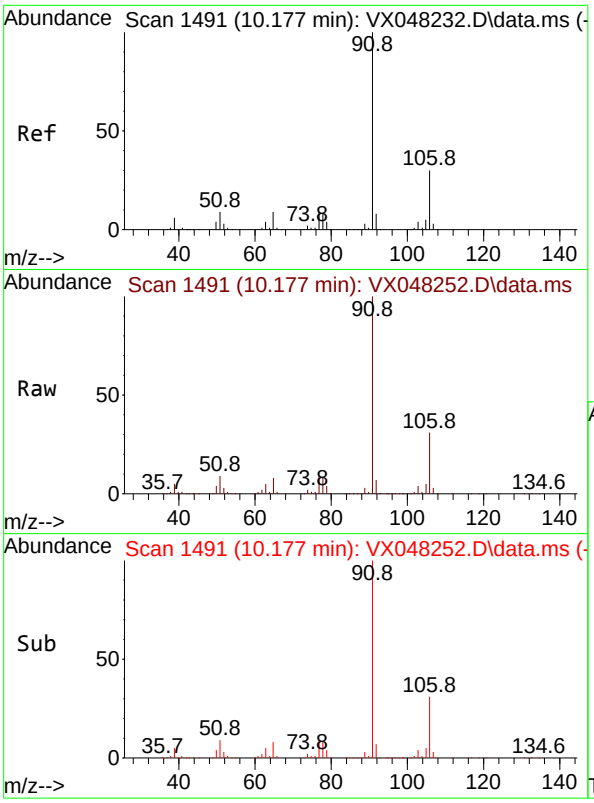


#66
1,1,1,2-Tetrachloroethane
Concen: 45.215 ug/l
RT: 10.140 min Scan# 1485
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:131 Resp: 73602

Ion	Ratio	Lower	Upper
131	100		
133	94.8	47.6	142.8
119	62.4	32.5	97.5



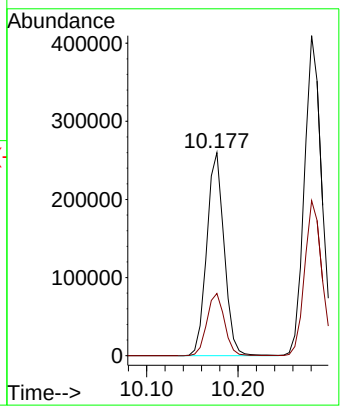


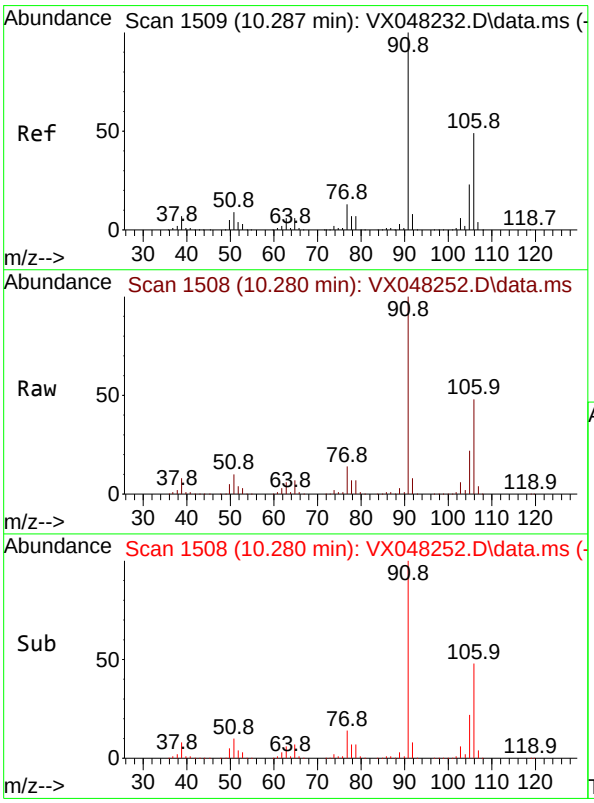
#67
Ethyl Benzene
Concen: 45.371 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 342357

Ion	Ratio	Lower	Upper
91	100		
106	30.7	23.8	35.6

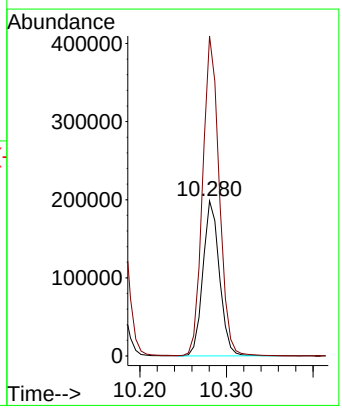


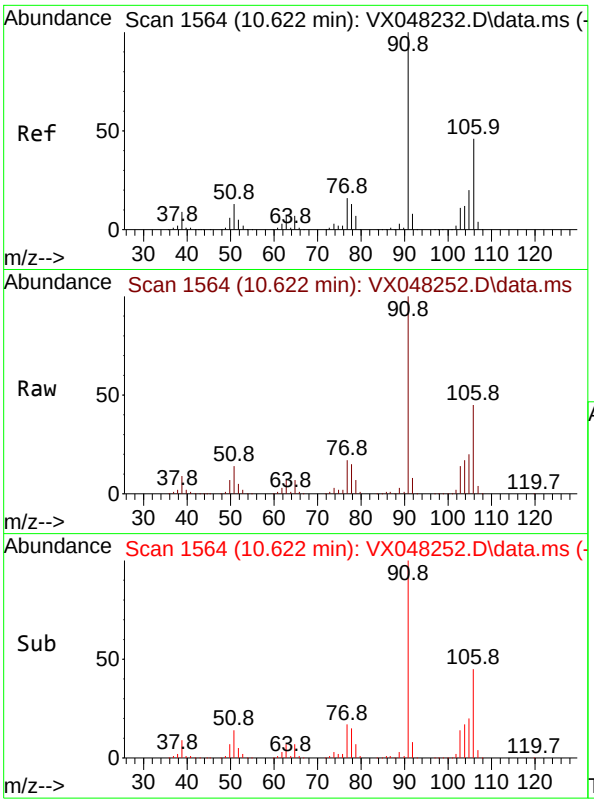


#68
m/p-Xylenes
Concen: 93.624 ug/l
RT: 10.280 min Scan# 1508
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:106 Resp: 262482

Ion	Ratio	Lower	Upper
106	100		
91	206.8	167.9	251.9



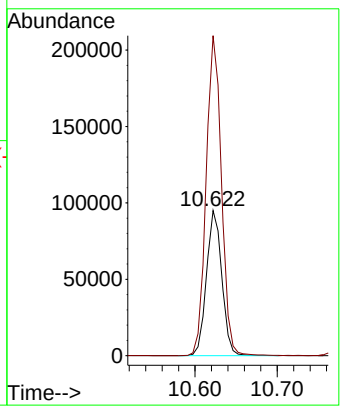


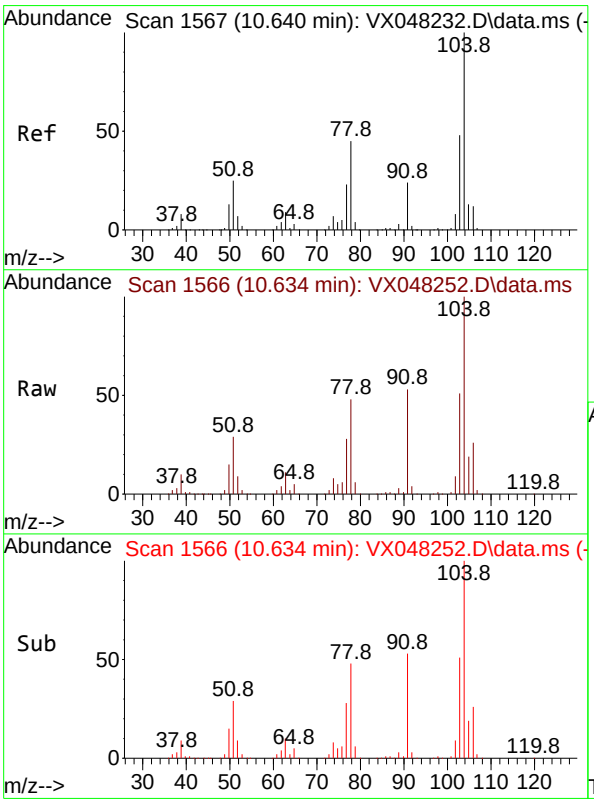
#69
o-Xylene
Concen: 45.486 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 123116

Ion	Ratio	Lower	Upper
106	100		
91	219.9	111.3	333.9

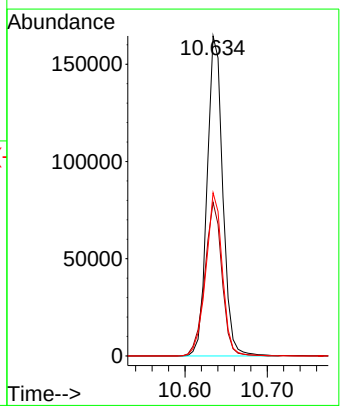


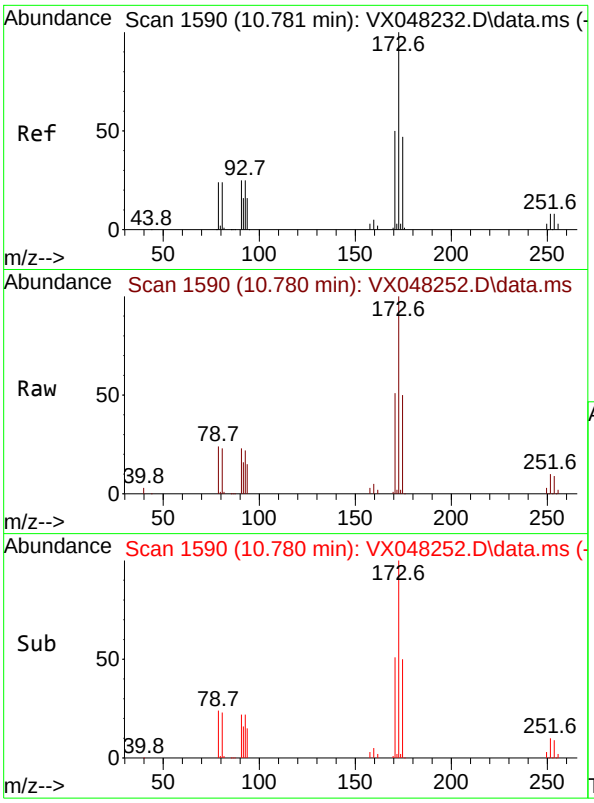


#70
Styrene
Concen: 47.309 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:104 Resp: 218038

Ion	Ratio	Lower	Upper
104	100		
78	52.5	42.2	63.4
103	53.9	43.0	64.4



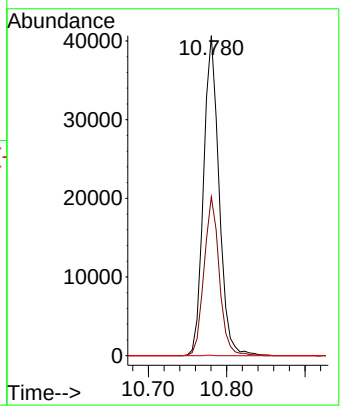


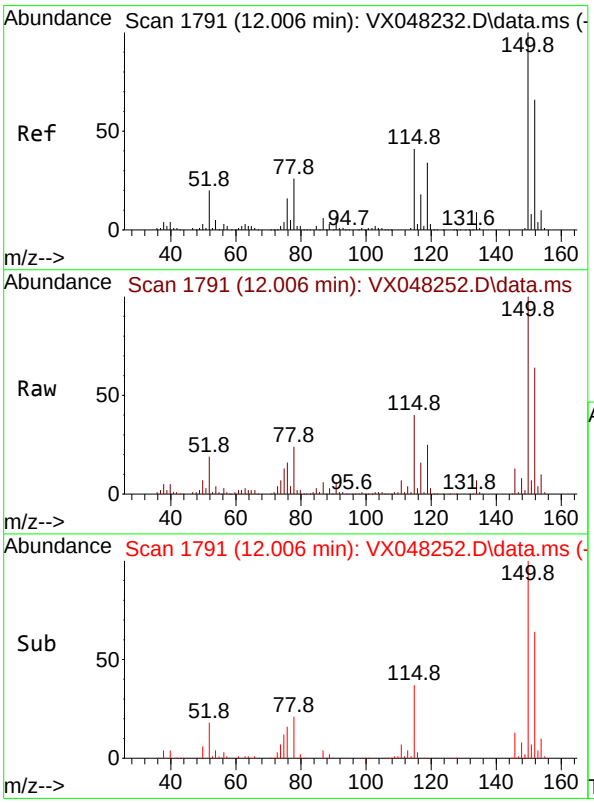
#71
Bromoform
Concen: 42.915 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 55833

Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.0	72.0
254	0.1	0.0	0.0#

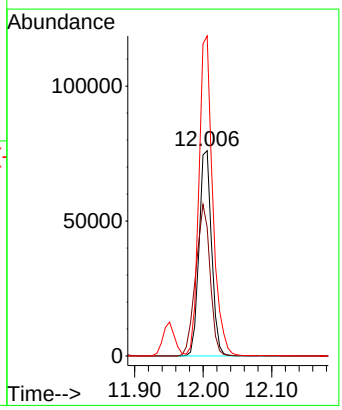


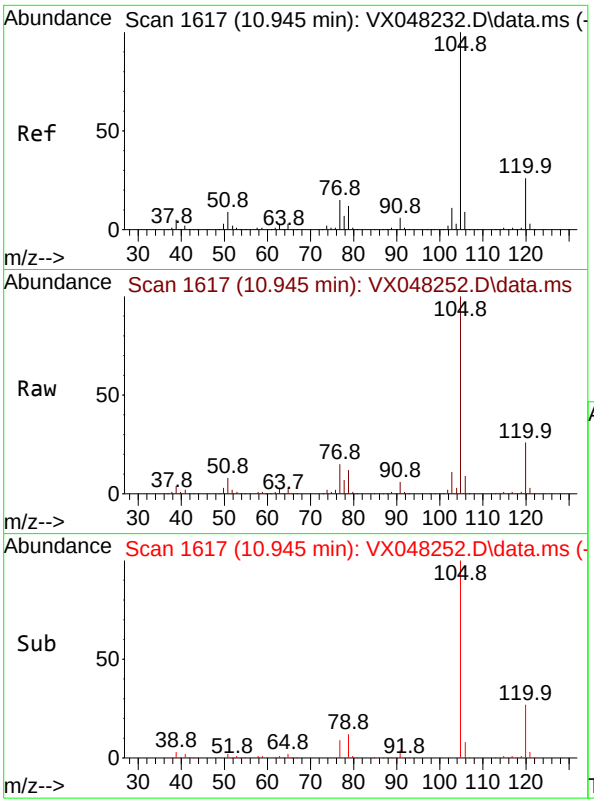


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:152 Resp: 96991

Ion	Ratio	Lower	Upper
152	100		
115	84.4	43.1	129.4
150	171.4	0.0	353.0



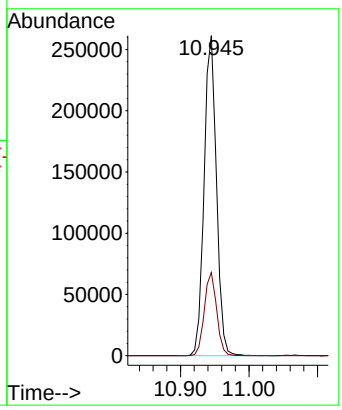


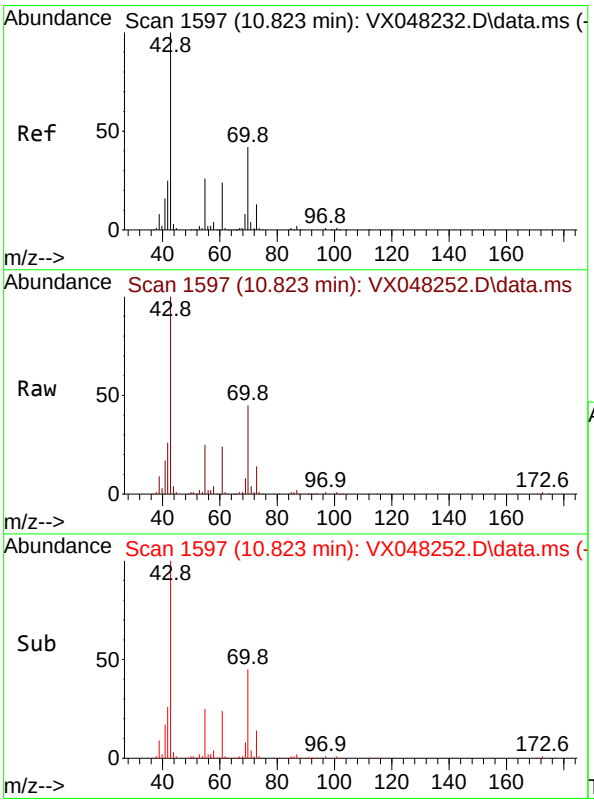
#73
Isopropylbenzene
Concen: 46.258 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 327700

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.0	38.9

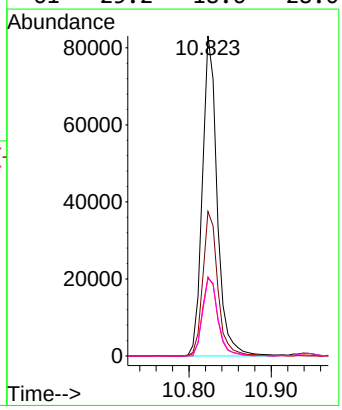


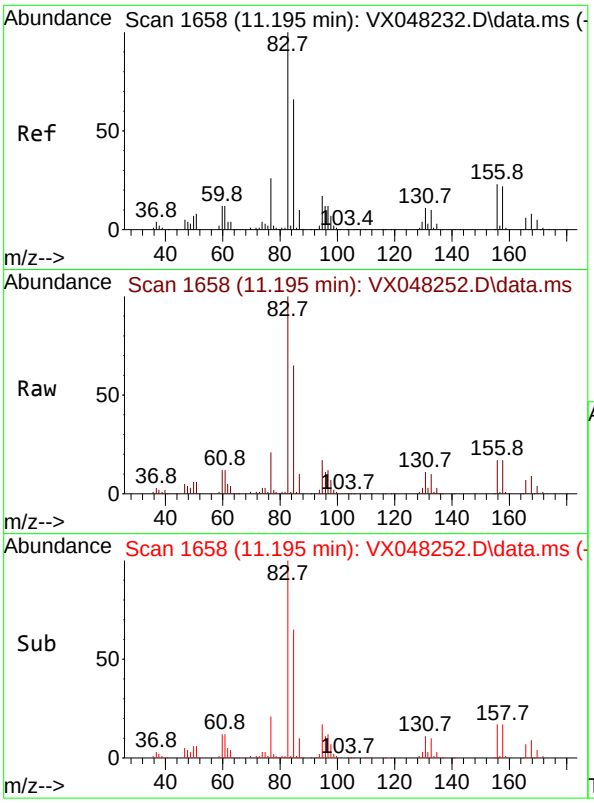


#74
N-amyl acetate
Concen: 41.490 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 43 Resp: 104260

Ion	Ratio	Lower	Upper
43	100		
70	45.6	32.2	48.2
55	25.5	19.1	28.7
61	25.2	18.6	28.0





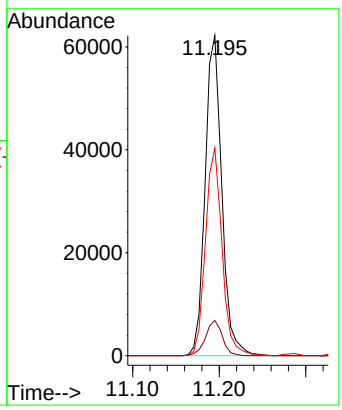
#75
1,1,2,2-Tetrachloroethane
Concen: 42.990 ug/l
RT: 11.195 min Scan# 1

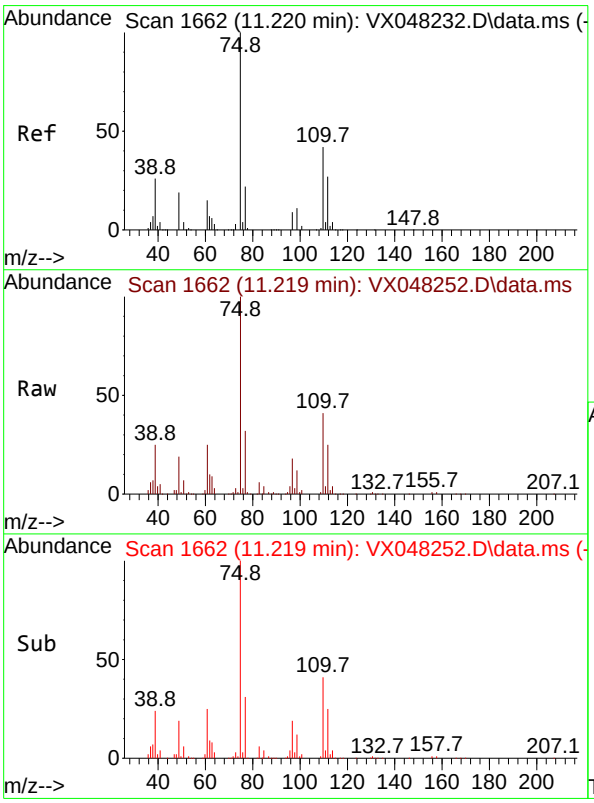
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 83 Resp: 83168

Ion	Ratio	Lower	Upper
83	100		
131	11.1	4.8	14.4
85	64.6	31.9	95.7

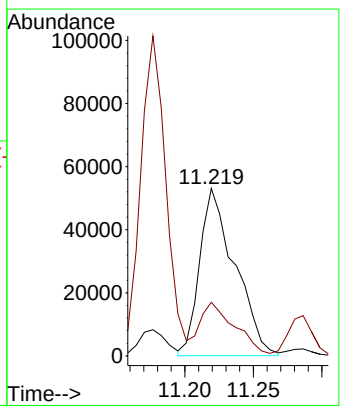


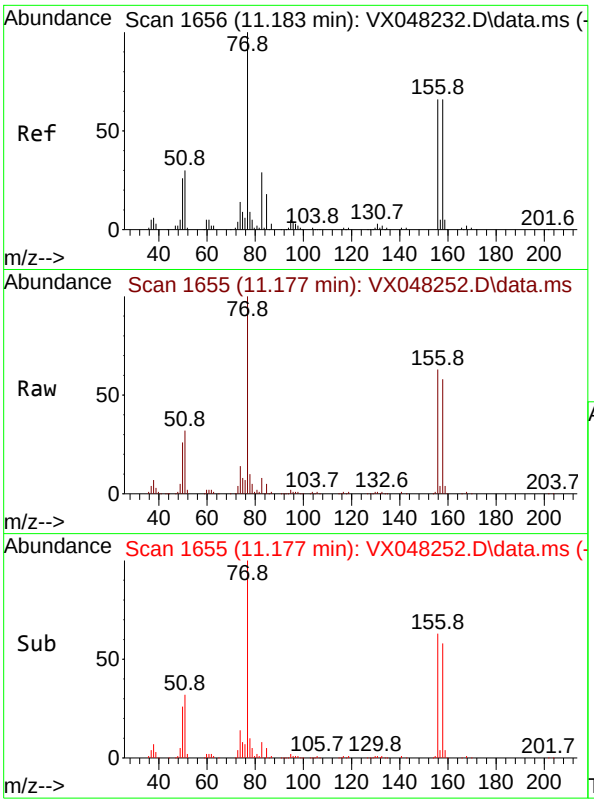


#76
1,2,3-Trichloropropane
Concen: 60.444 ug/l
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 75 Resp: 95070

Ion	Ratio	Lower	Upper
75	100		
77	32.4	22.4	67.2



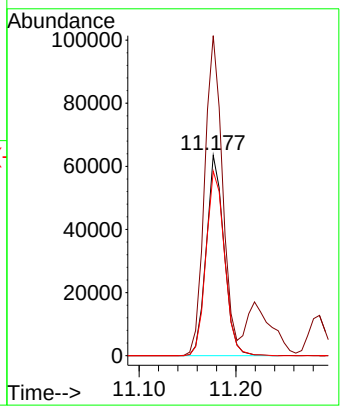


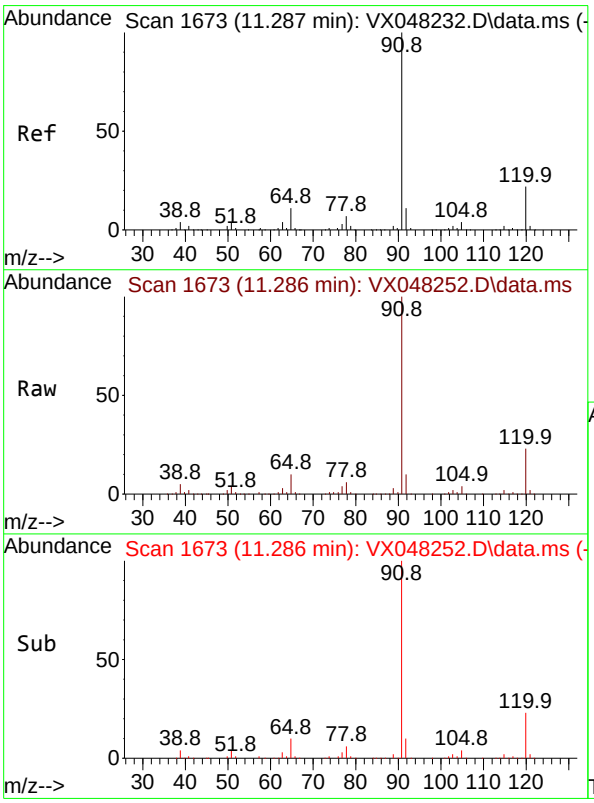
#77
Bromobenzene
Concen: 45.589 ug/l
RT: 11.177 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 80981

Ion	Ratio	Lower	Upper
156	100		
77	161.0	87.0	261.0
158	96.3	47.8	143.4

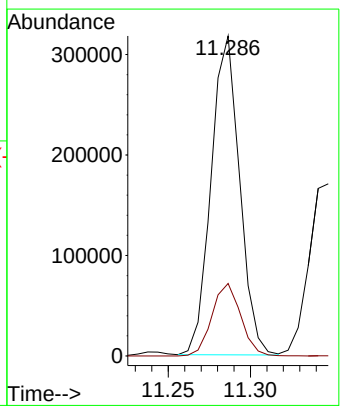


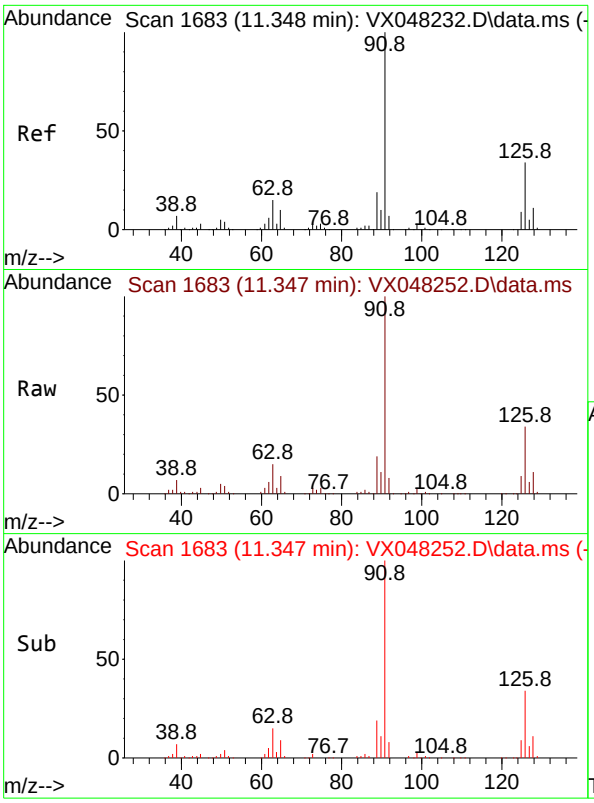


#78
n-propylbenzene
Concen: 46.739 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 91 Resp: 383372

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.1	33.1



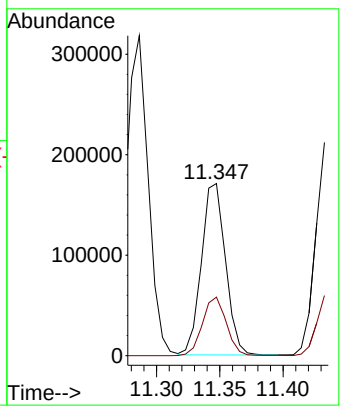


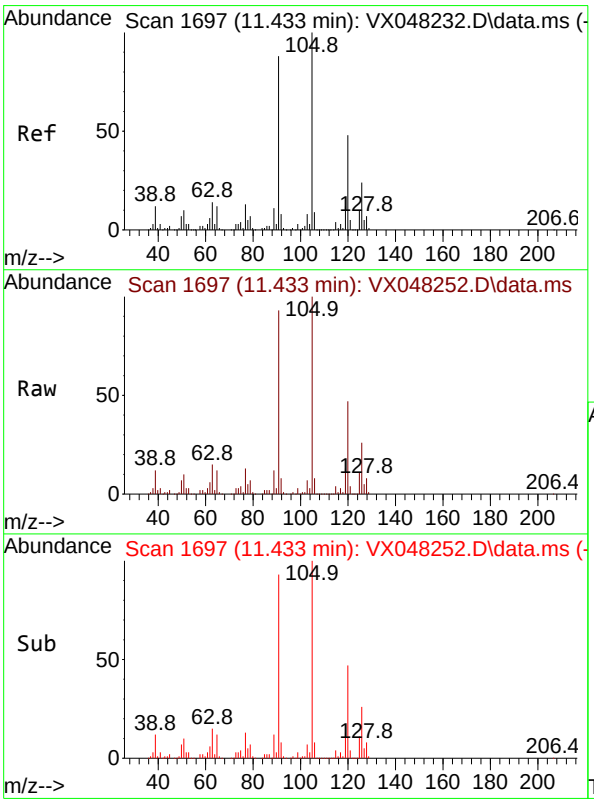
#79
2-Chlorotoluene
Concen: 45.456 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 226051

Ion	Ratio	Lower	Upper
91	100		
126	34.0	16.4	49.4

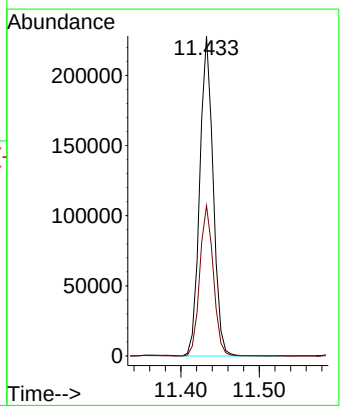


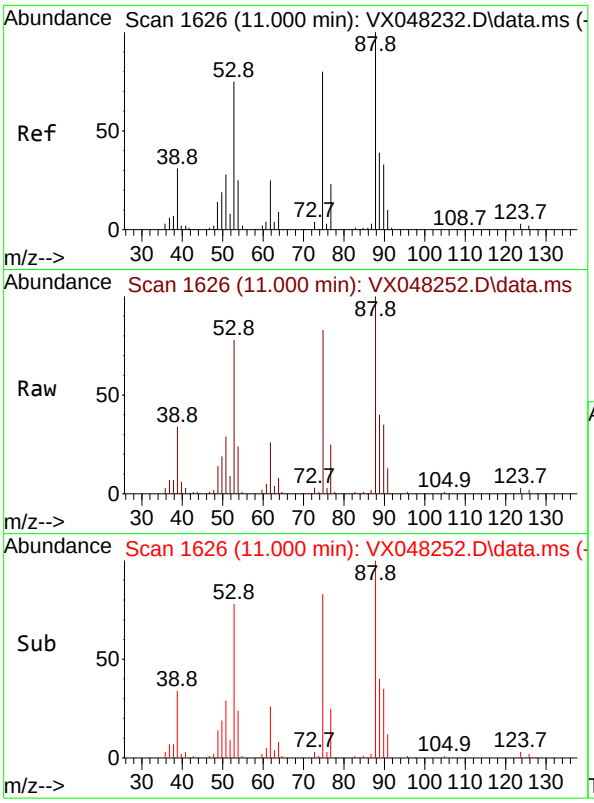


#80
1,3,5-Trimethylbenzene
Concen: 46.077 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:105 Resp: 270132

Ion	Ratio	Lower	Upper
105	100		
120	47.8	24.0	72.0



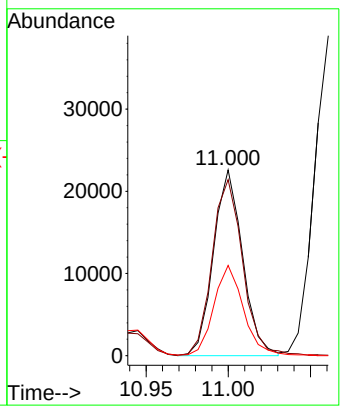


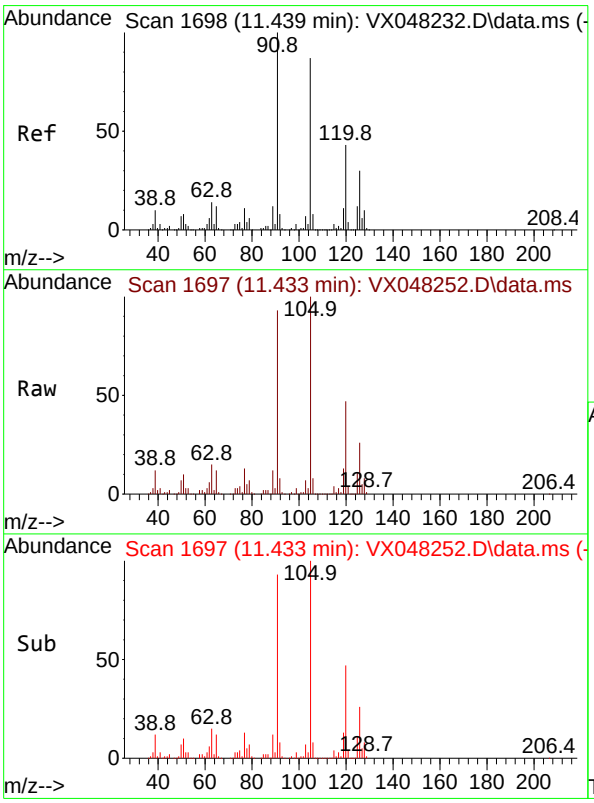
#81
trans-1,4-Dichloro-2-butene
Concen: 43.041 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 27826

Ion	Ratio	Lower	Upper
75	100		
53	99.9	79.5	119.3
89	49.7	36.8	55.2

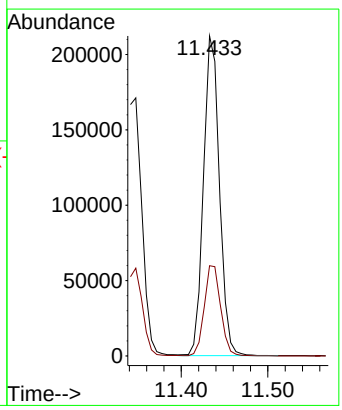


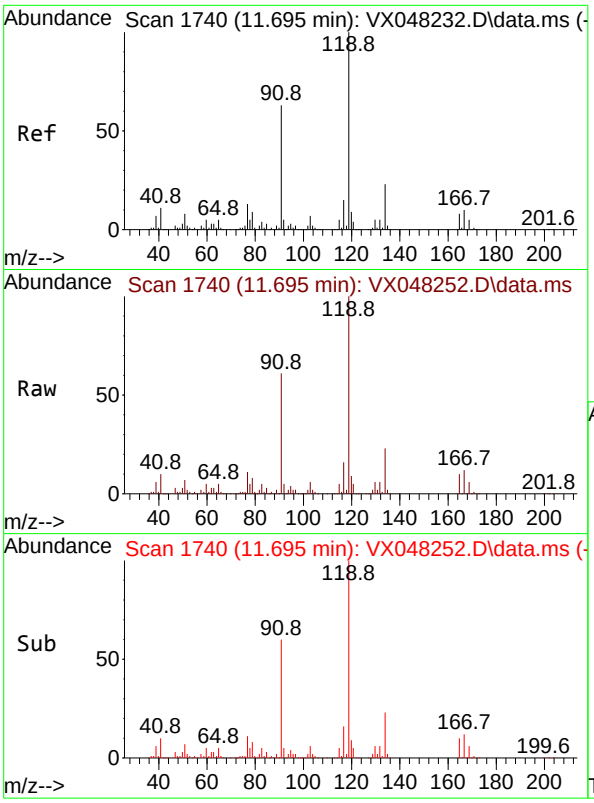


#82
4-Chlorotoluene
Concen: 45.973 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 91 Resp: 271398

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.1	42.4



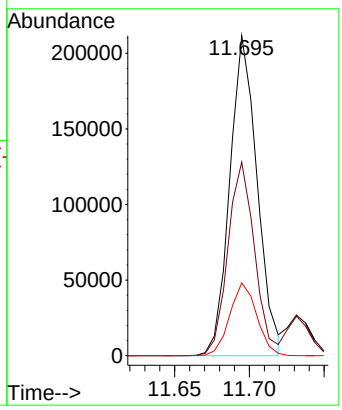


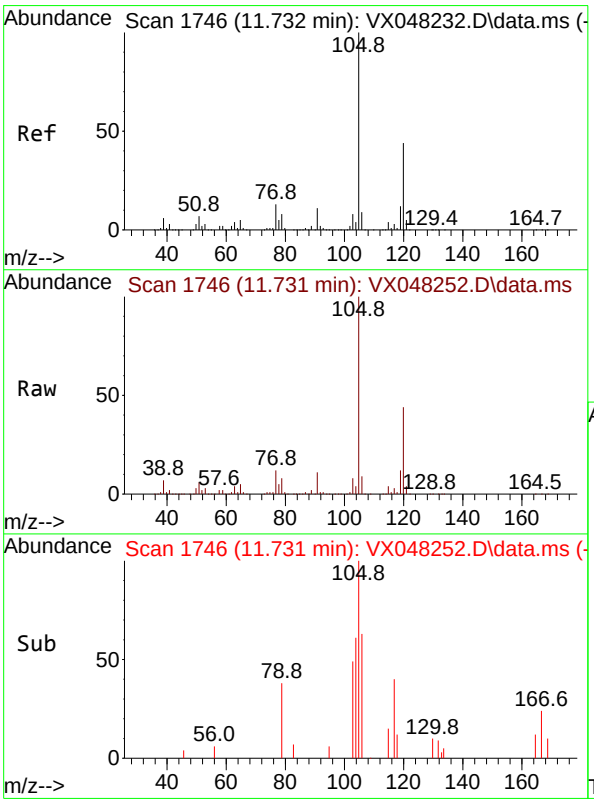
#83
tert-Butylbenzene
Concen: 44.748 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 269543

Ion	Ratio	Lower	Upper
119	100		
91	59.1	30.3	91.0
134	22.5	11.4	34.2

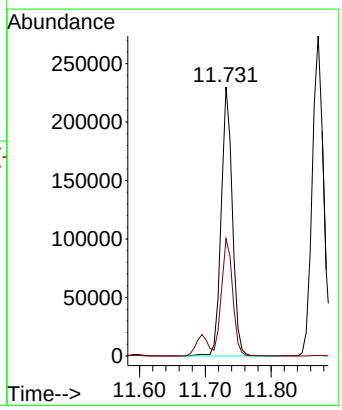


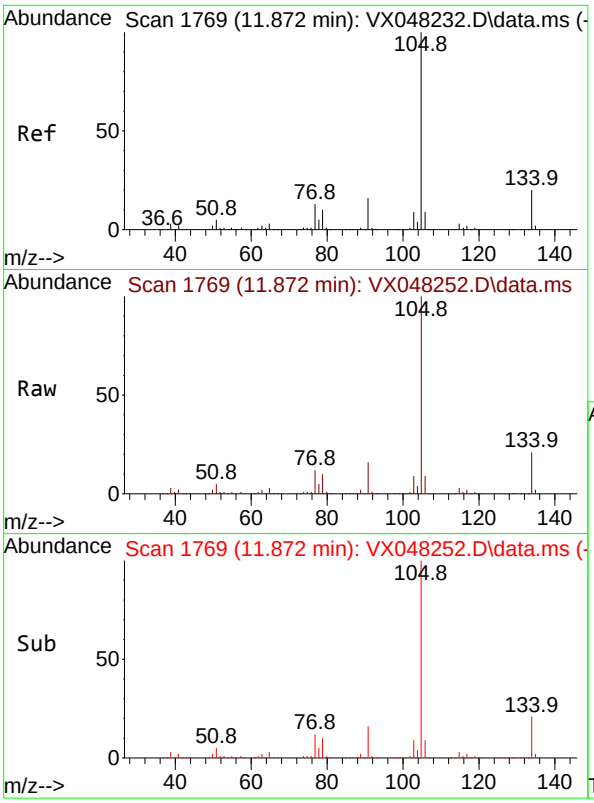


#84
1,2,4-Trimethylbenzene
Concen: 46.257 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:105 Resp: 270636

Ion	Ratio	Lower	Upper
105	100		
120	43.7	22.1	66.5



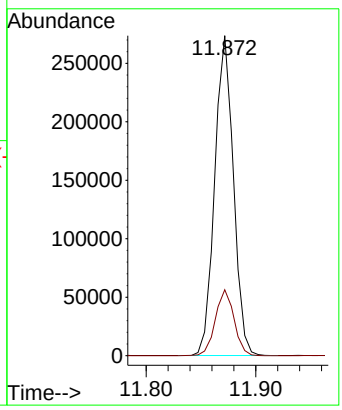


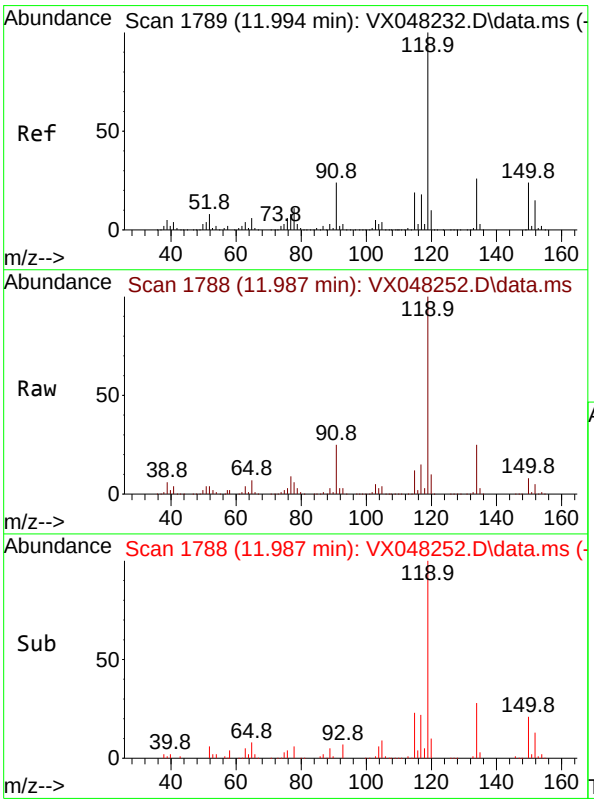
#85
sec-Butylbenzene
Concen: 44.772 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 324459

Ion	Ratio	Lower	Upper
105	100		
134	20.6	10.1	30.1

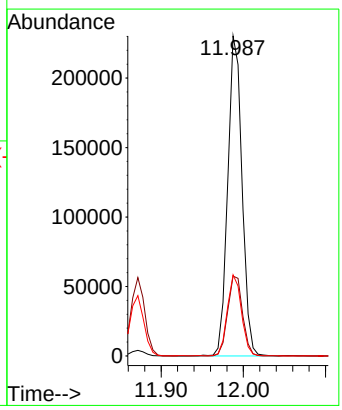


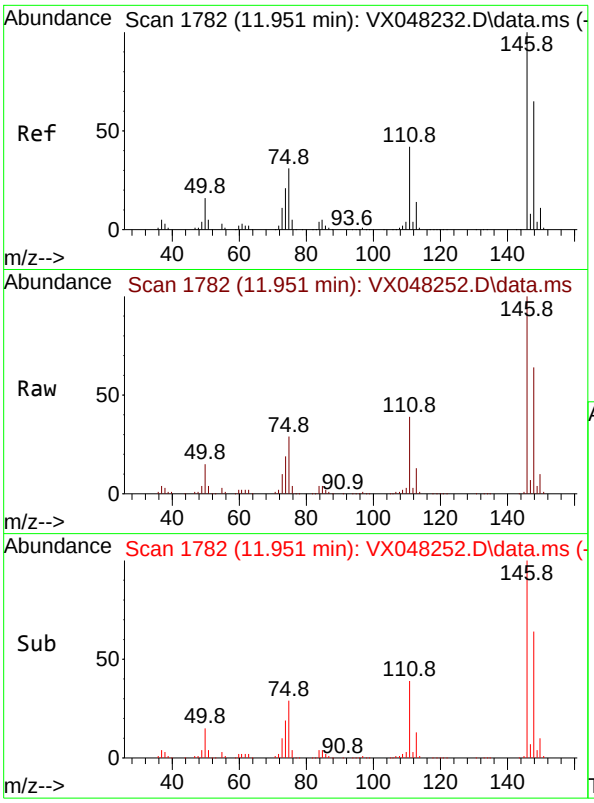


#86
p-Isopropyltoluene
Concen: 44.510 ug/l
RT: 11.987 min Scan# 1788
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:119 Resp: 278806

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.0	39.0
91	25.2	12.1	36.3



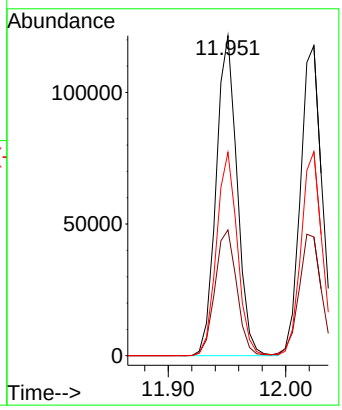


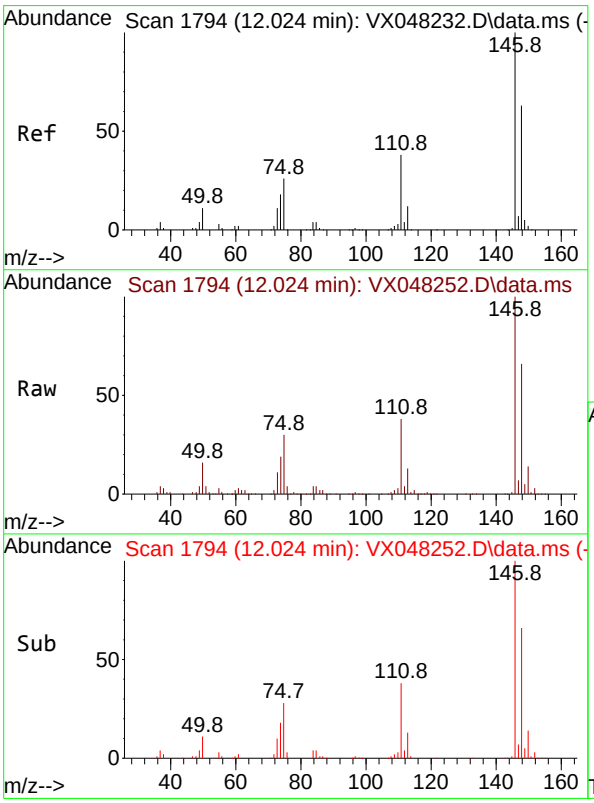
#87
1,3-Dichlorobenzene
Concen: 45.050 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 150857

Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.4	61.2
148	63.1	31.9	95.9

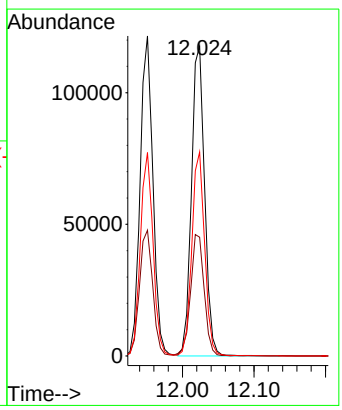


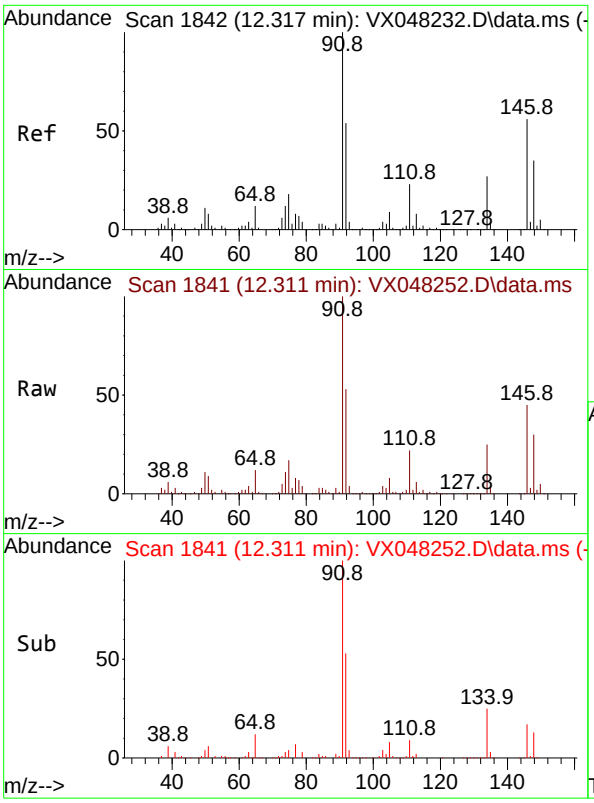


#88
1,4-Dichlorobenzene
Concen: 43.374 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:146 Resp: 150468

Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.1	60.2
148	64.4	31.8	95.3



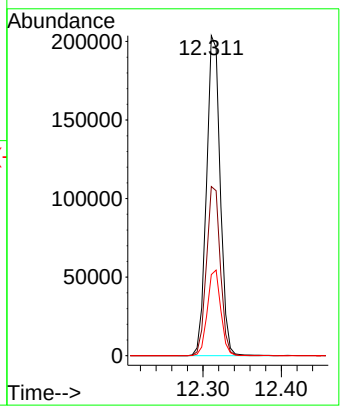


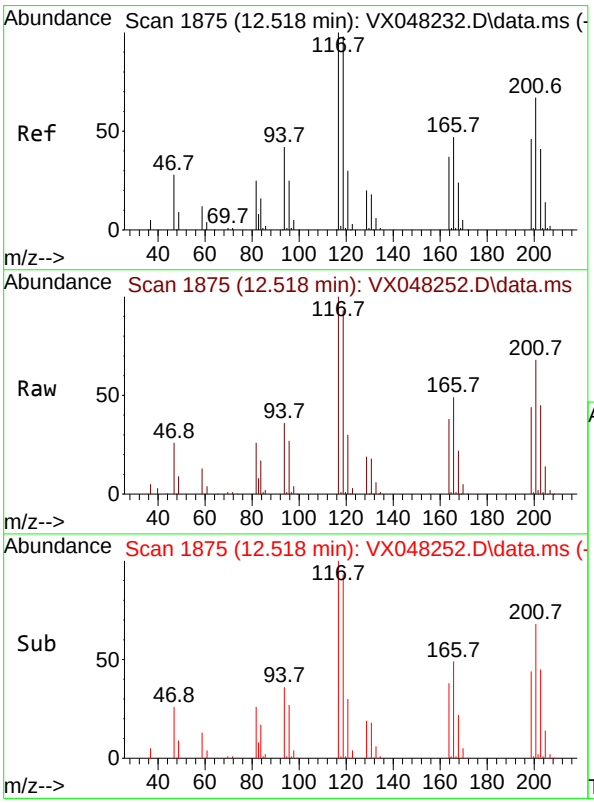
#89
n-Butylbenzene
Concen: 43.269 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 246692

Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.9	80.6
134	26.2	12.7	38.1

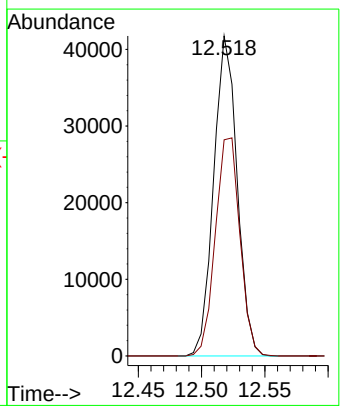


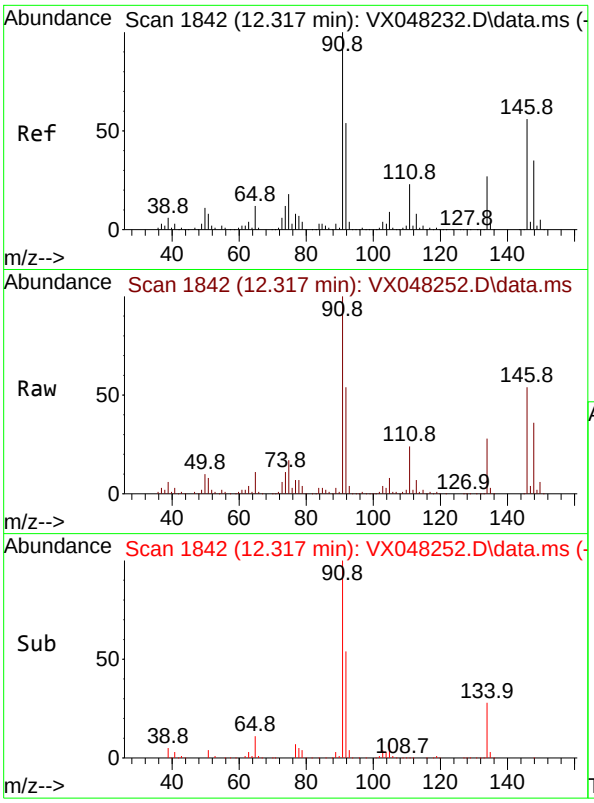


#90
Hexachloroethane
Concen: 43.425 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:117 Resp: 53716

Ion	Ratio	Lower	Upper
117	100		
201	71.6	34.1	102.2



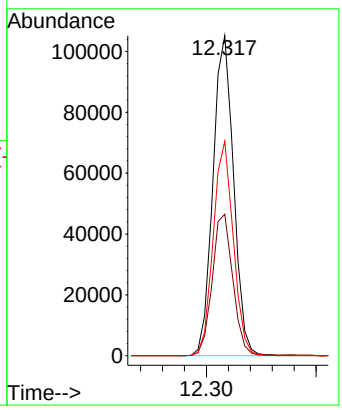


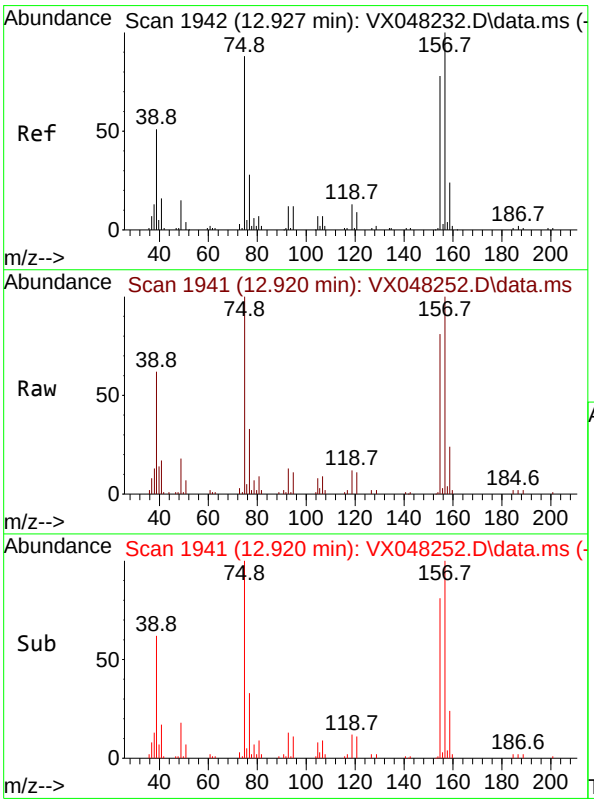
#91
1,2-Dichlorobenzene
Concen: 43.698 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 137387

Ion	Ratio	Lower	Upper
146	100		
111	44.1	21.9	65.5
148	65.4	31.9	95.5

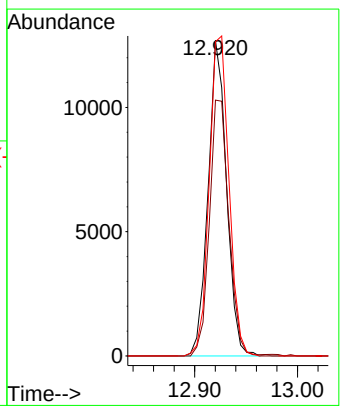


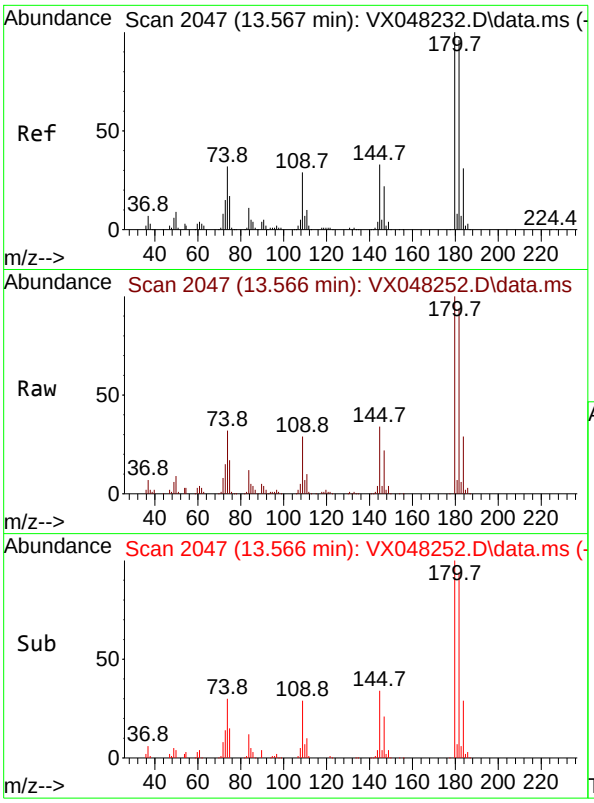


#92
1,2-Dibromo-3-Chloropropane
Concen: 40.283 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion: 75 Resp: 15819

Ion	Ratio	Lower	Upper
75	100		
155	85.2	42.8	128.4
157	108.0	54.2	162.6



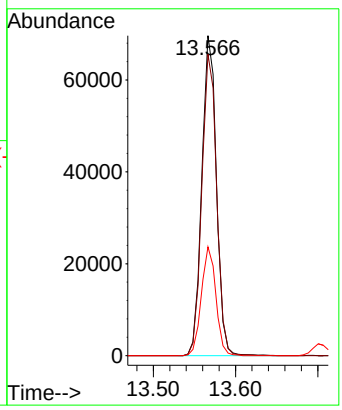


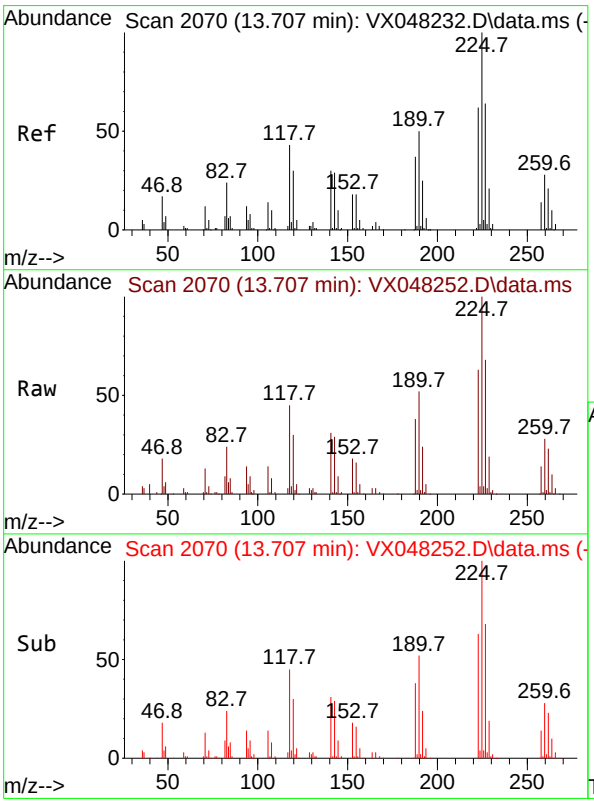
#93
1,2,4-Trichlorobenzene
Concen: 40.369 ug/l
RT: 13.566 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 85831

Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.3	142.0
145	33.8	16.3	48.9

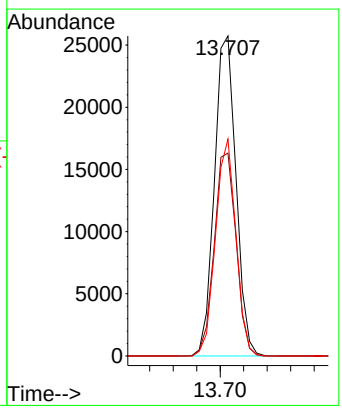


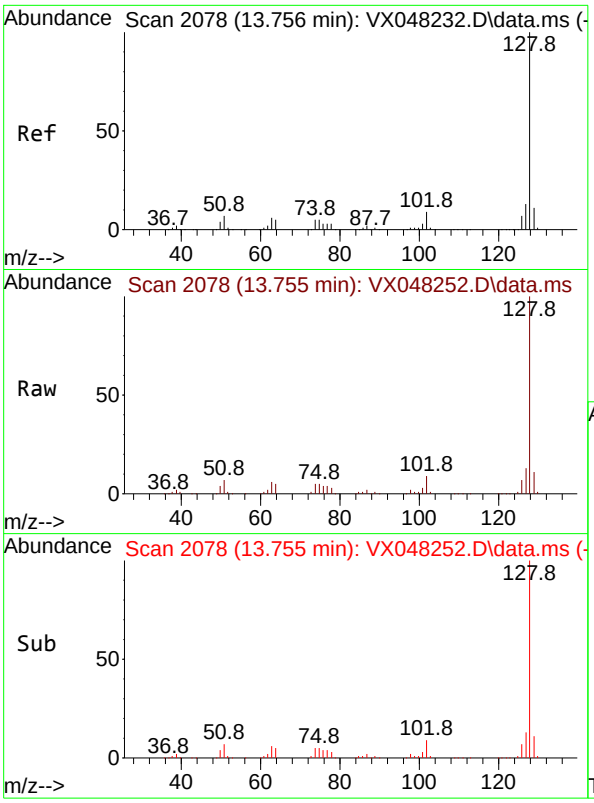


#94
Hexachlorobutadiene
Concen: 41.267 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:225 Resp: 32869

Ion	Ratio	Lower	Upper
225	100		
223	64.3	32.6	97.7
227	64.0	32.5	97.4



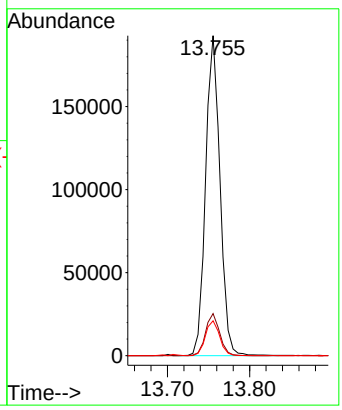


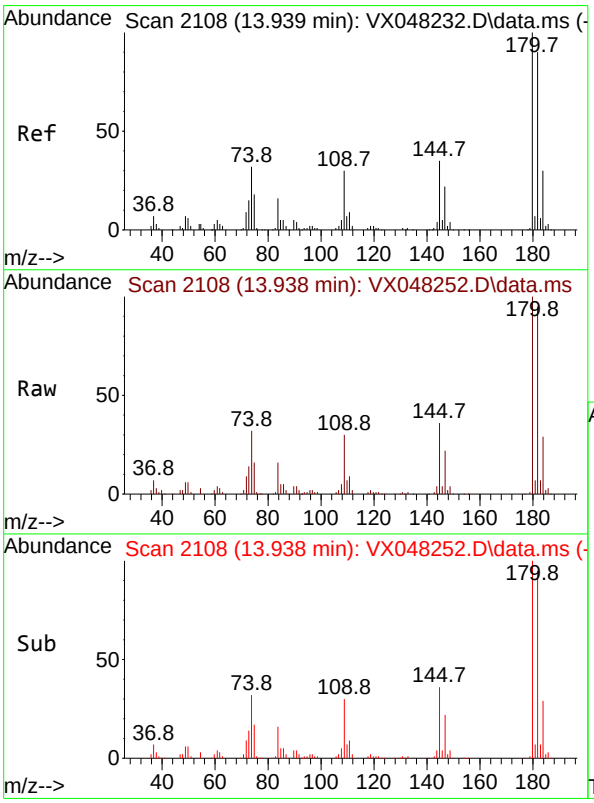
#95
Naphthalene
Concen: 41.531 ug/l
RT: 13.755 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 233946

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.4
129	10.9	8.6	12.8

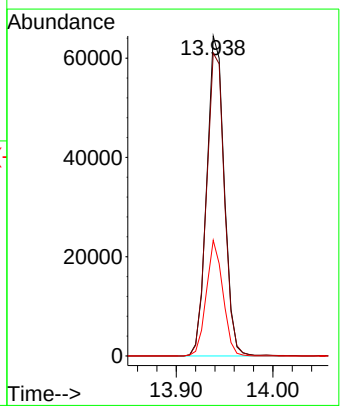




#96
1,2,3-Trichlorobenzene
Concen: 41.446 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX048252.D
Acq: 21 Oct 2025 08:43

Tgt Ion:180 Resp: 80863

Ion	Ratio	Lower	Upper
180	100		
182	97.0	46.6	139.7
145	34.4	16.9	50.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048255.D
Acq On : 21 Oct 2025 10:06
Operator : JC/MD
Sample : VX1021WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Quant Time: Oct 24 04:23:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	141199	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.738	114	230109	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	212342	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	110789	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	97363	49.180	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 98.360%			
35) Dibromofluoromethane	5.367	113	77378	49.256	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.520%			
50) Toluene-d8	8.628	98	263067	47.776	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 95.560%			
62) 4-Bromofluorobenzene	11.061	95	104113	49.702	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 99.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.178	85	24401	16.810	ug/l	98
3) Chloromethane	1.300	50	24074	17.768	ug/l	98
4) Vinyl Chloride	1.380	62	22127	17.636	ug/l	98
5) Bromomethane	1.617	94	16447	19.316	ug/l	99
6) Chloroethane	1.697	64	13922	18.884	ug/l	91
7) Trichlorofluoromethane	1.898	101	42595	17.702	ug/l	99
8) Diethyl Ether	2.136	74	12470	18.418	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.337	101	26749	17.555	ug/l	96
10) Methyl Iodide	2.453	142	32960	17.207	ug/l	100
11) Tert butyl alcohol	2.940	59	13580	69.088	ug/l #	85
12) 1,1-Dichloroethene	2.325	96	26679	17.997	ug/l	89
13) Acrolein	2.233	56	19860	99.067	ug/l	99
14) Allyl chloride	2.666	41	43917	17.844	ug/l	97
15) Acrylonitrile	3.056	53	59914	84.532	ug/l	99
16) Acetone	2.373	43	55899	82.307	ug/l	97
17) Carbon Disulfide	2.514	76	77662	16.623	ug/l	97
18) Methyl Acetate	2.696	43	24826	17.503	ug/l	97
19) Methyl tert-butyl Ether	3.105	73	89211	17.640	ug/l	95
20) Methylene Chloride	2.788	84	31545	19.062	ug/l	94
21) trans-1,2-Dichloroethene	3.093	96	29134	17.892	ug/l	97
22) Diisopropyl ether	3.745	45	95604	19.476	ug/l	91
23) Vinyl Acetate	3.708	43	367608	93.748	ug/l	97
24) 1,1-Dichloroethane	3.605	63	54562	18.382	ug/l	98
25) 2-Butanone	4.538	43	73253	85.214	ug/l	100
26) 2,2-Dichloropropane	4.464	77	47833	17.854	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	35928	18.906	ug/l	98
28) Bromochloromethane	4.879	49	26532	21.558	ug/l	88
29) Tetrahydrofuran	4.983	42	43984	85.433	ug/l	97
30) Chloroform	5.074	83	59628	18.803	ug/l	98
31) Cyclohexane	5.452	56	47112	19.171	ug/l	94
32) 1,1,1-Trichloroethane	5.367	97	52848	18.082	ug/l	98
36) 1,1-Dichloropropene	5.678	75	40242	18.023	ug/l	100
37) Ethyl Acetate	4.690	43	32251	17.426	ug/l	98
38) Carbon Tetrachloride	5.665	117	46896	17.024	ug/l	98
39) Methylcyclohexane	7.360	83	44764	16.976	ug/l	95
40) Benzene	6.019	78	120185	18.540	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048255.D
Acq On : 21 Oct 2025 10:06
Operator : JC/MD
Sample : VX1021WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Quant Time: Oct 24 04:23:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.897	41	17591	18.099	ug/l		97
42) 1,2-Dichloroethane	6.062	62	45577	19.053	ug/l		99
43) Isopropyl Acetate	6.318	43	52903	17.402	ug/l		96
44) Trichloroethene	7.110	130	30995	18.107	ug/l		99
45) 1,2-Dichloropropane	7.415	63	29673	19.252	ug/l		95
46) Dibromomethane	7.567	93	22037	18.352	ug/l		94
47) Bromodichloromethane	7.799	83	48240	18.606	ug/l		99
48) Methyl methacrylate	7.677	41	26320	17.158	ug/l		94
49) 1,4-Dioxane	7.647	88	5926	292.405	ug/l	#	88
51) 4-Methyl-2-Pentanone	8.555	43	152275	86.877	ug/l		96
52) Toluene	8.701	92	77240	18.755	ug/l		99
53) t-1,3-Dichloropropene	8.964	75	46020	18.419	ug/l		99
54) cis-1,3-Dichloropropene	8.348	75	50705	18.810	ug/l		95
55) 1,1,2-Trichloroethane	9.134	97	29313	19.140	ug/l		98
56) Ethyl methacrylate	9.098	69	39990	17.852	ug/l		93
57) 1,3-Dichloropropane	9.293	76	50123	19.160	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.226	63	98096	82.586	ug/l		96
59) 2-Hexanone	9.415	43	104997	85.909	ug/l		96
60) Dibromochloromethane	9.500	129	37288	18.114	ug/l		99
61) 1,2-Dibromoethane	9.592	107	30294	18.554	ug/l		98
64) Tetrachloroethene	9.256	164	26804	16.909	ug/l		99
65) Chlorobenzene	10.061	112	85855	17.974	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.146	131	30819	17.566	ug/l		98
67) Ethyl Benzene	10.177	91	144956	17.824	ug/l		98
68) m/p-Xylenes	10.287	106	111086	36.763	ug/l		99
69) o-Xylene	10.622	106	52686	18.060	ug/l		97
70) Styrene	10.634	104	93575	18.838	ug/l		99
71) Bromoform	10.780	173	23770	16.952	ug/l	#	99
73) Isopropylbenzene	10.945	105	138728	17.144	ug/l		100
74) N-amyl acetate	10.823	43	46339	16.144	ug/l		96
75) 1,1,2,2-Tetrachloroethane	11.195	83	38121	17.251	ug/l		100
76) 1,2,3-Trichloropropane	11.219	75	39397	21.928	ug/l		81
77) Bromobenzene	11.177	156	34669	17.087	ug/l		94
78) n-propylbenzene	11.286	91	161765	17.266	ug/l		98
79) 2-Chlorotoluene	11.347	91	98234	17.293	ug/l		98
80) 1,3,5-Trimethylbenzene	11.433	105	114762	17.137	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	12207	16.530	ug/l		96
82) 4-Chlorotoluene	11.433	91	115993	17.202	ug/l		97
83) tert-Butylbenzene	11.695	119	117710	17.108	ug/l		95
84) 1,2,4-Trimethylbenzene	11.731	105	114927	17.197	ug/l		100
85) sec-Butylbenzene	11.872	105	138342	16.712	ug/l		99
86) p-Isopropyltoluene	11.987	119	119237	16.665	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	65615	17.154	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	65796	16.604	ug/l		98
89) n-Butylbenzene	12.317	91	103383	15.875	ug/l		99
90) Hexachloroethane	12.518	117	22360	15.825	ug/l		96
91) 1,2-Dichlorobenzene	12.317	146	61839	17.219	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.926	75	6372	14.205	ug/l		96
93) 1,2,4-Trichlorobenzene	13.566	180	36955	15.216	ug/l		98
94) Hexachlorobutadiene	13.707	225	14253	15.707	ug/l		97
95) Naphthalene	13.755	128	98736	15.345	ug/l		100
96) 1,2,3-Trichlorobenzene	13.944	180	34440	15.454	ug/l		97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048255.D
Acq On : 21 Oct 2025 10:06
Operator : JC/MD
Sample : VX1021WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Quant Time: Oct 24 04:23:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

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

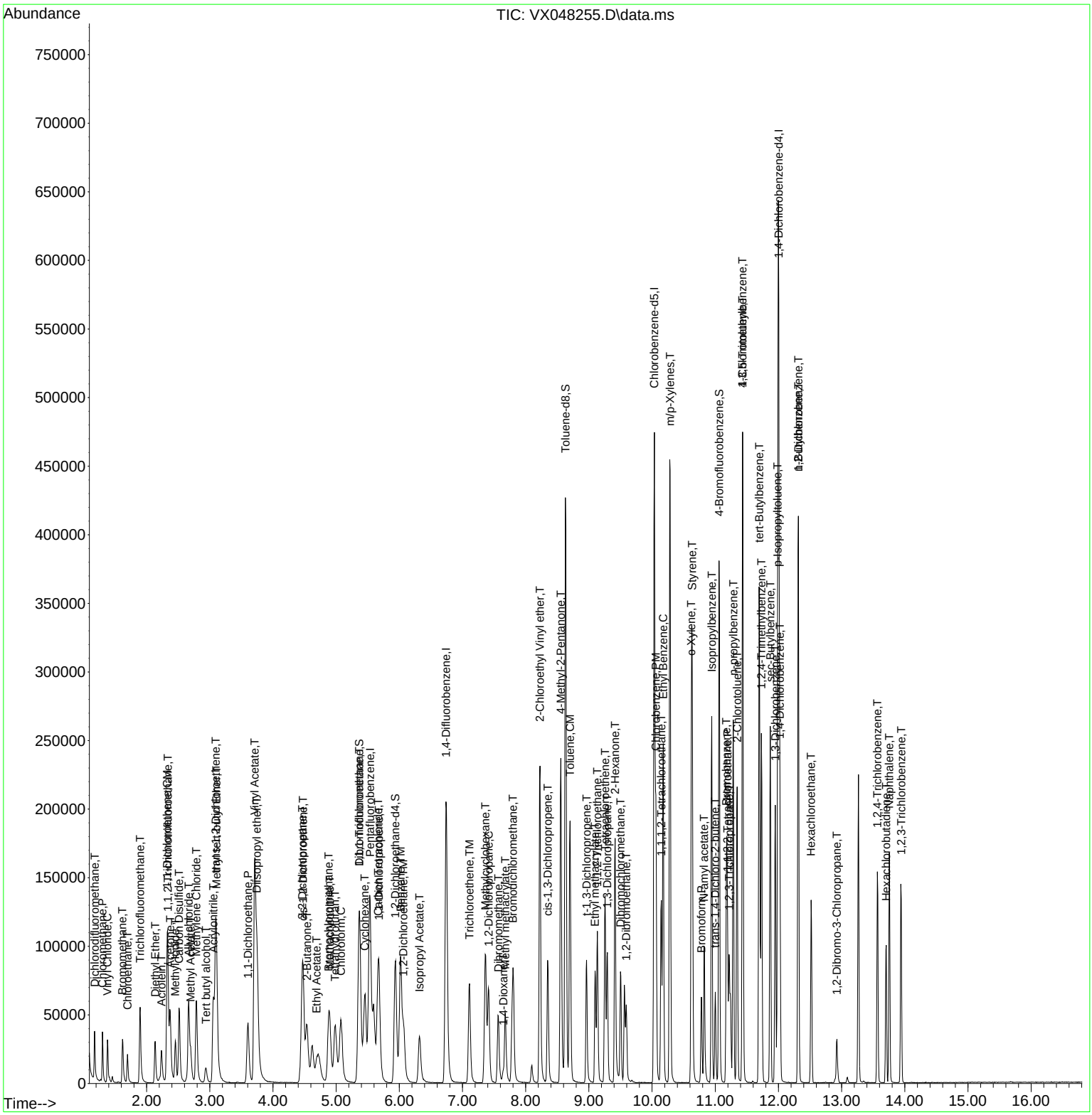
(#) = qualifier out of range (m) = manual integration (+) = signals summed

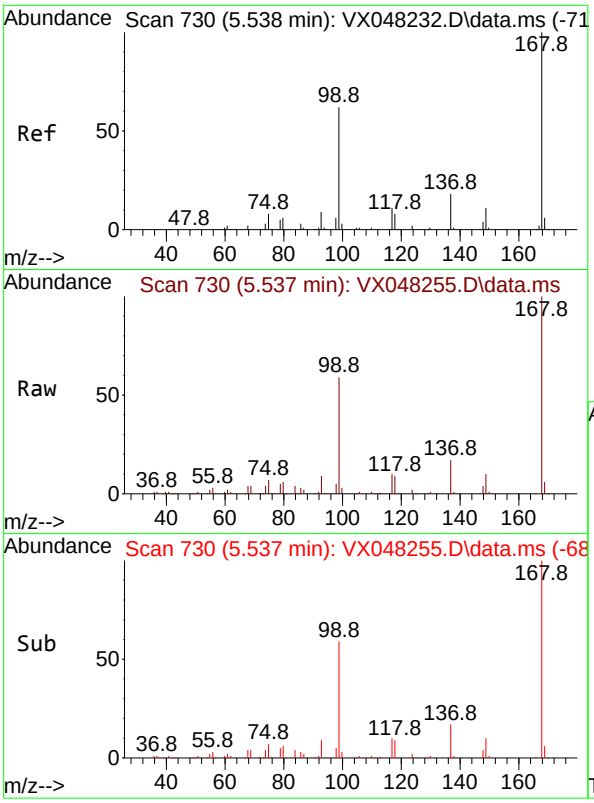
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048255.D
Acq On : 21 Oct 2025 10:06
Operator : JC/MD
Sample : VX1021WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Quant Time: Oct 24 04:23:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration



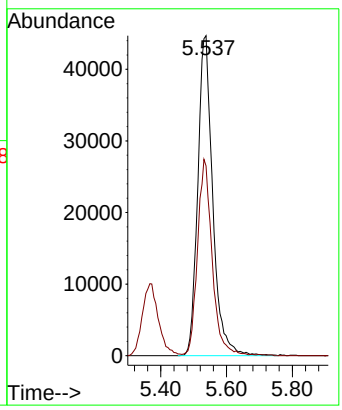


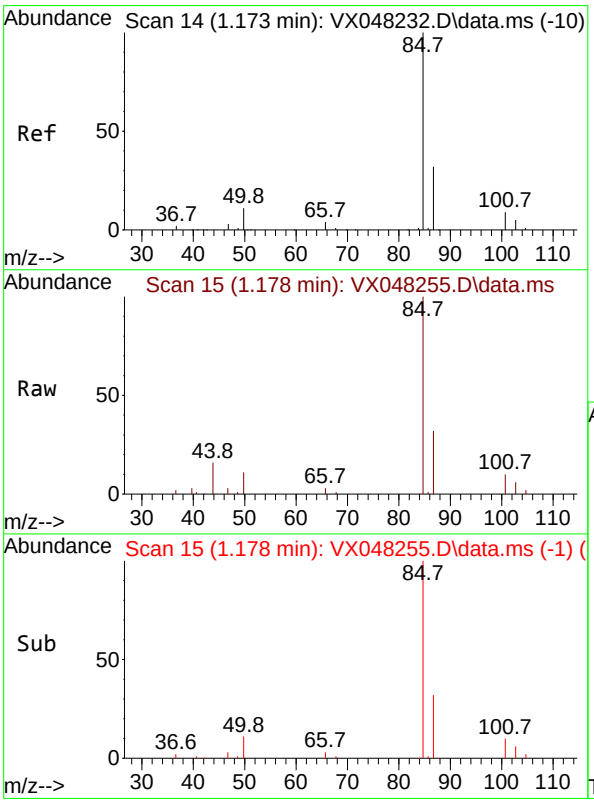
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion:168 Resp: 141199

Ion	Ratio	Lower	Upper
168	100		
99	59.3	46.4	69.6

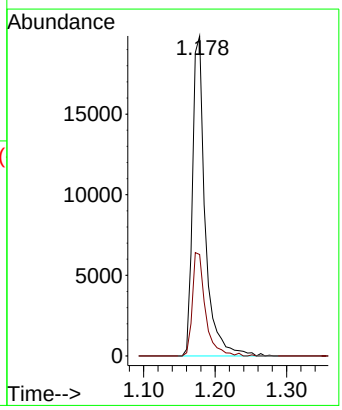


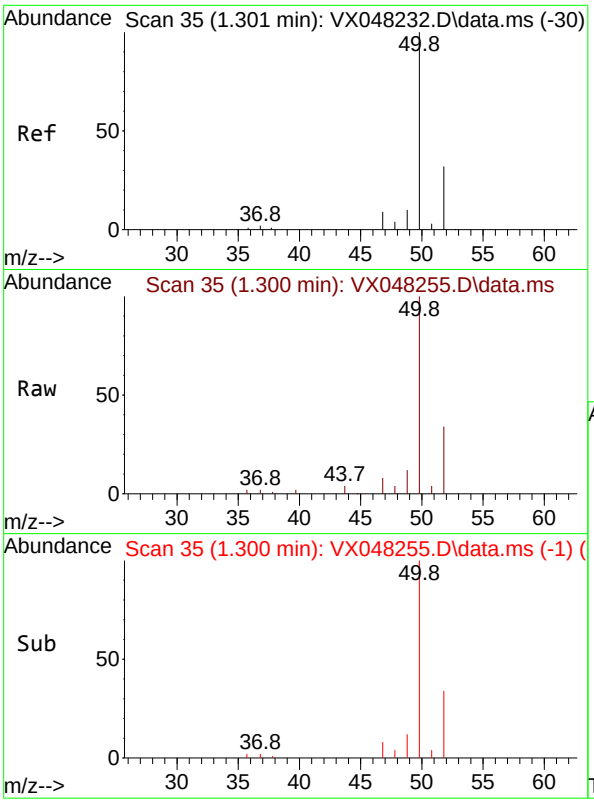


#2
Dichlorodifluoromethane
Concen: 16.810 ug/l
RT: 1.178 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 85 Resp: 24401

Ion	Ratio	Lower	Upper
85	100		
87	31.7	15.3	45.9



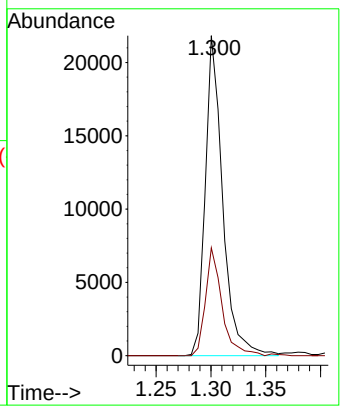


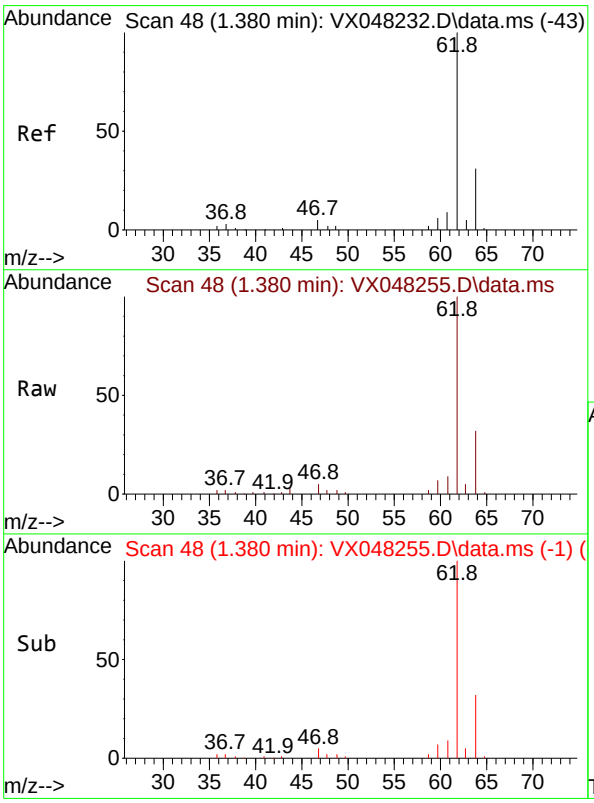
#3
Chloromethane
Concen: 17.768 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 50 Resp: 24074

Ion	Ratio	Lower	Upper
50	100		
52	33.7	25.9	38.9

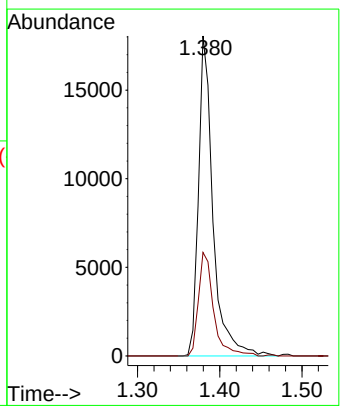


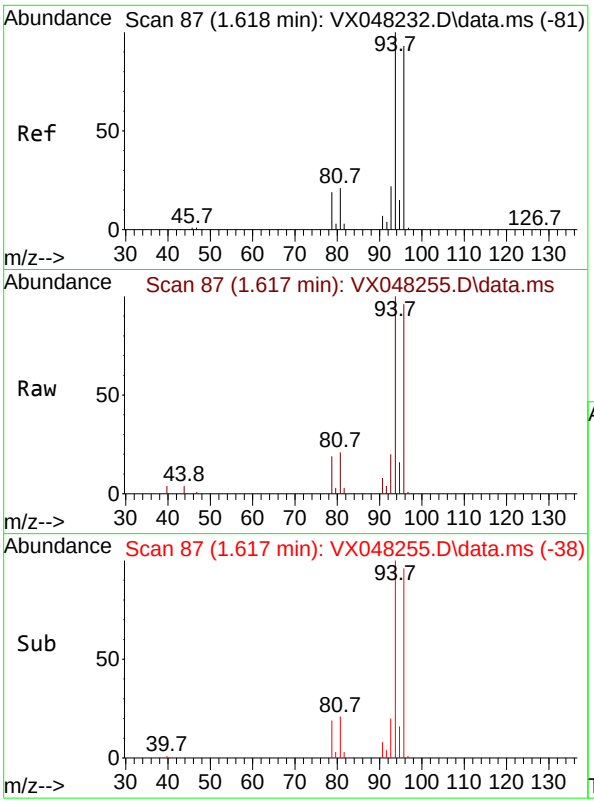


#4
Vinyl Chloride
Concen: 17.636 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 62 Resp: 22127

Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.1	37.7



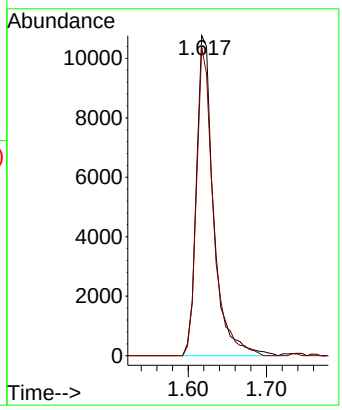


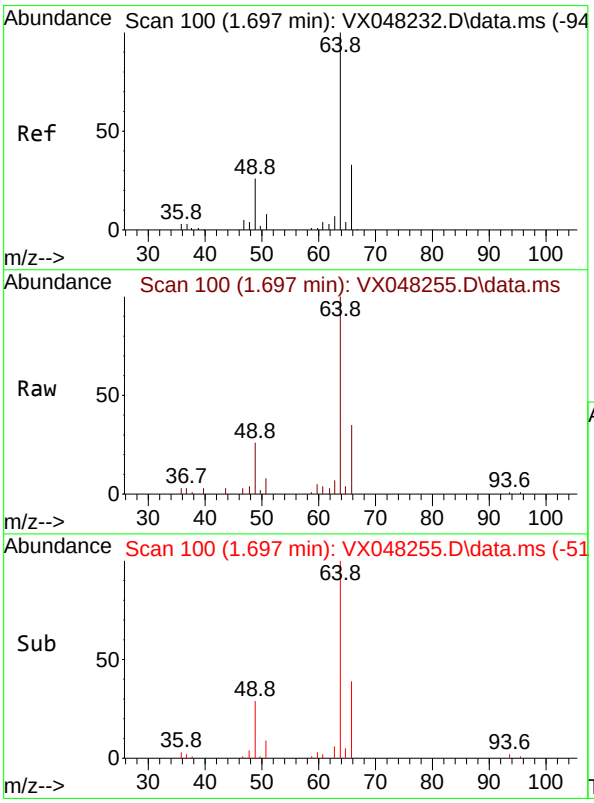
#5
Bromomethane
Concen: 19.316 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 94 Resp: 16447

Ion	Ratio	Lower	Upper
94	100		
96	96.3	76.0	114.0

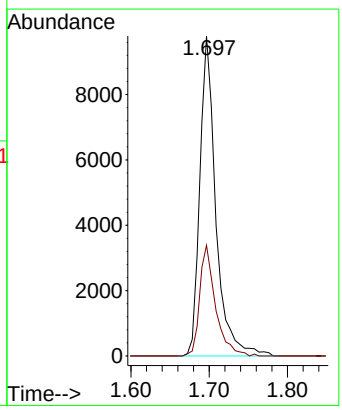


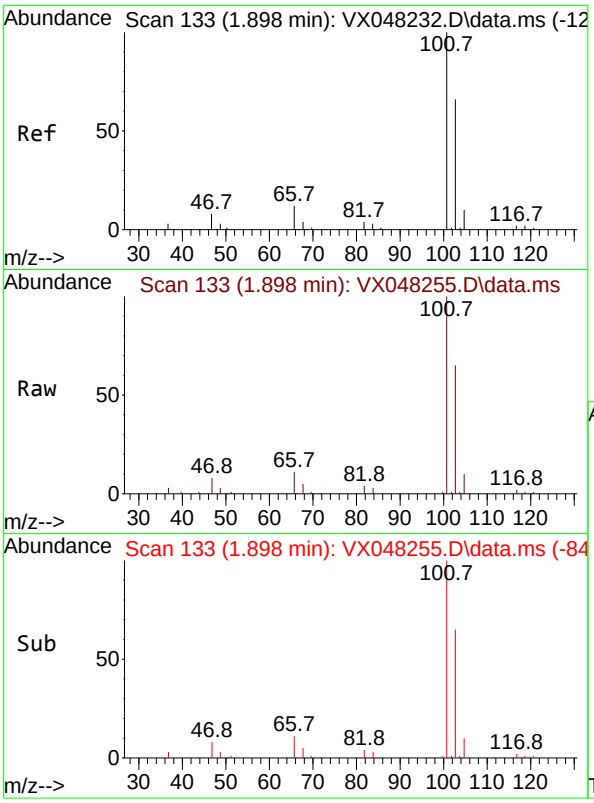


#6
Chloroethane
Concen: 18.884 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 64 Resp: 13922

Ion	Ratio	Lower	Upper
64	100		
66	34.6	23.9	35.9



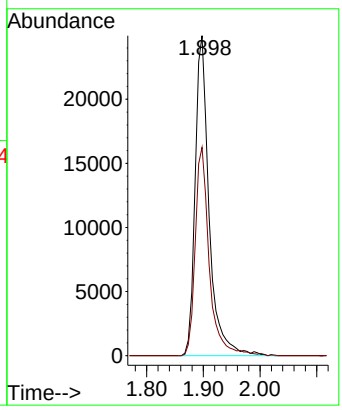


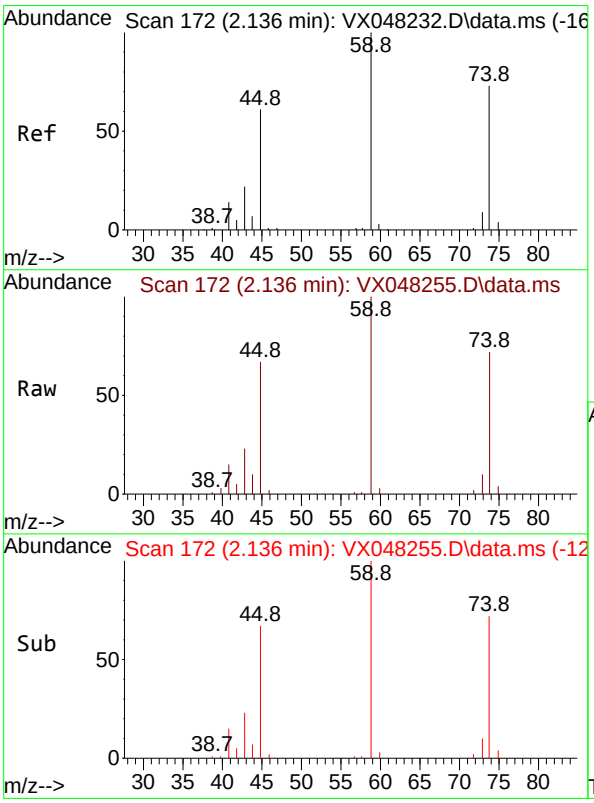
#7
Trichlorofluoromethane
Concen: 17.702 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion:101 Resp: 42595

Ion	Ratio	Lower	Upper
101	100		
103	65.1	51.6	77.4

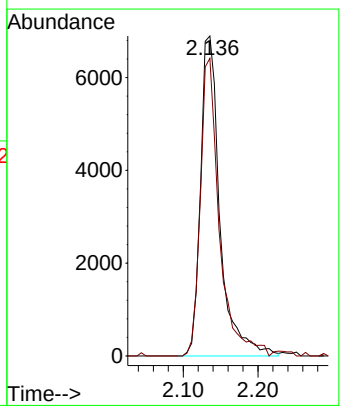


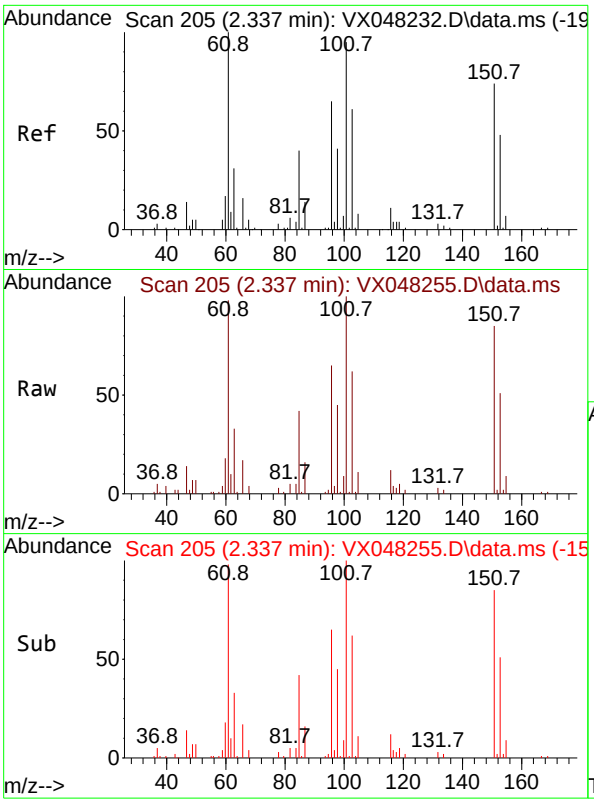


#8
Diethyl Ether
Concen: 18.418 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 74 Resp: 12470

Ion	Ratio	Lower	Upper
74	100		
45	91.2	50.0	149.8



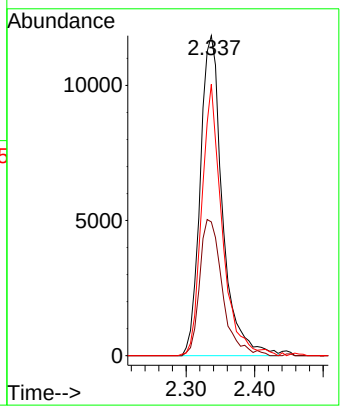


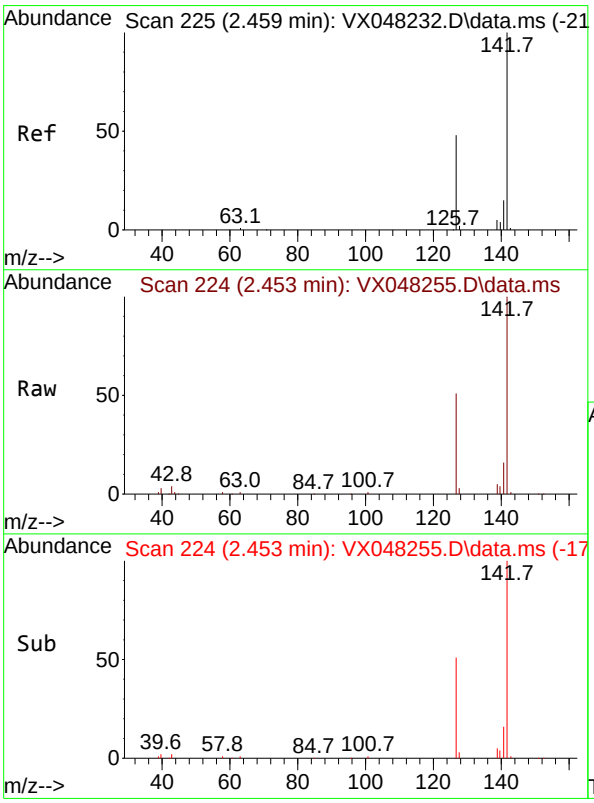
#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.555 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion:101 Resp: 26749

Ion	Ratio	Lower	Upper
101	100		
85	43.6	35.6	53.4
151	77.6	58.0	87.0

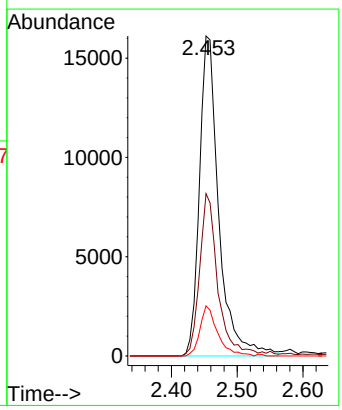


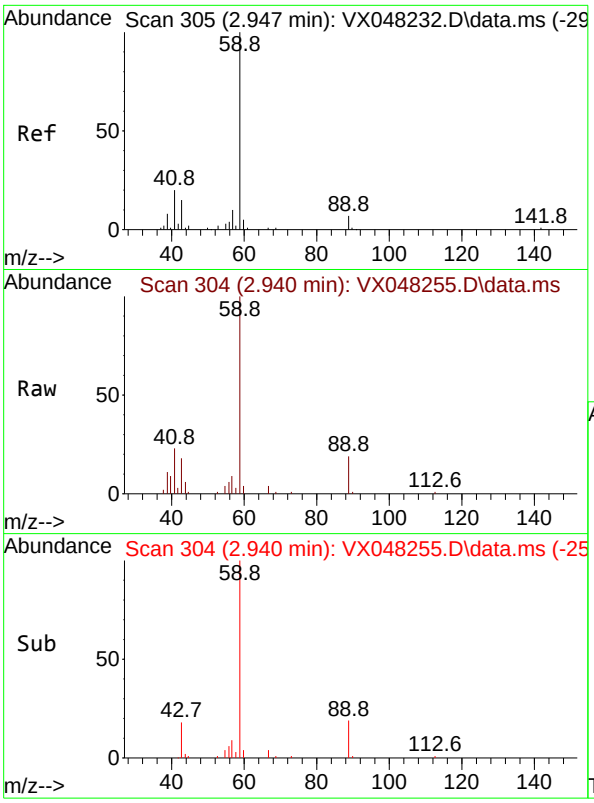


#10
Methyl Iodide
Concen: 17.207 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:142 Resp: 32960

Ion	Ratio	Lower	Upper
142	100		
127	48.3	38.5	57.7
141	14.3	11.6	17.4



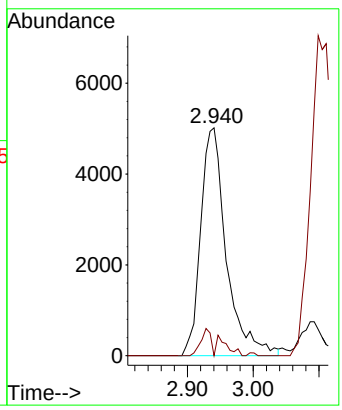


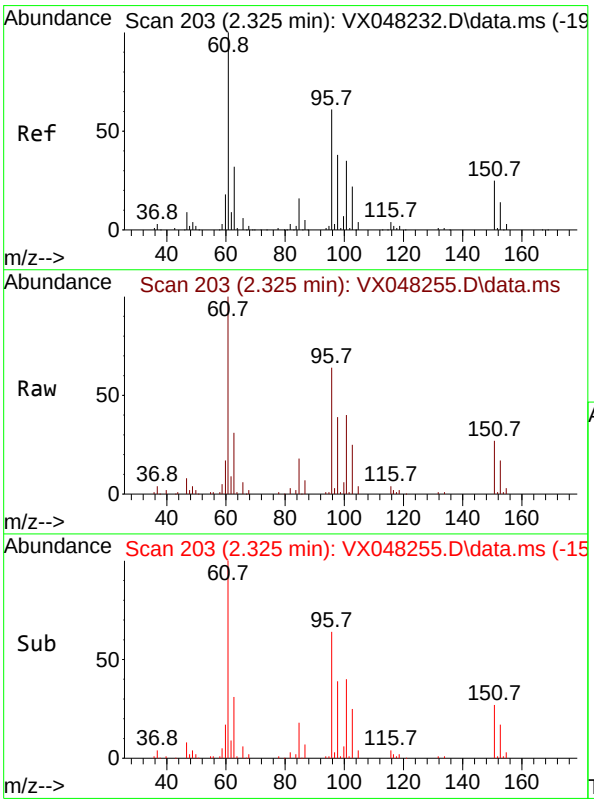
#11
Tert butyl alcohol
Concen: 69.088 ug/l
RT: 2.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 59 Resp: 13580

Ion	Ratio	Lower	Upper
59	100		
57	4.6	8.2	12.4#

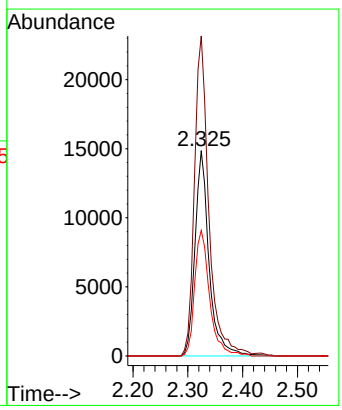


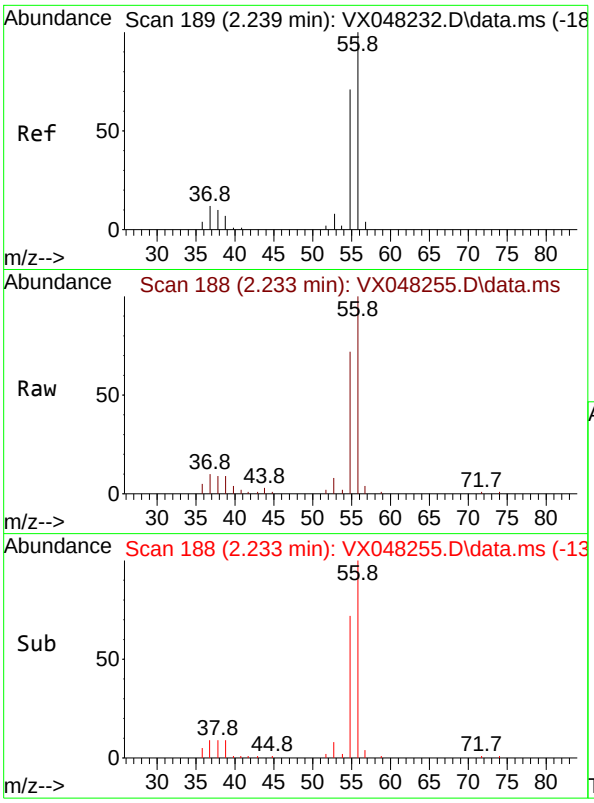


#12
1,1-Dichloroethene
Concen: 17.997 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 96 Resp: 26679

Ion	Ratio	Lower	Upper
96	100		
61	155.9	139.0	208.6
98	61.1	52.4	78.6



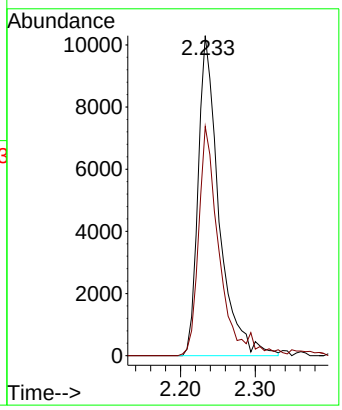


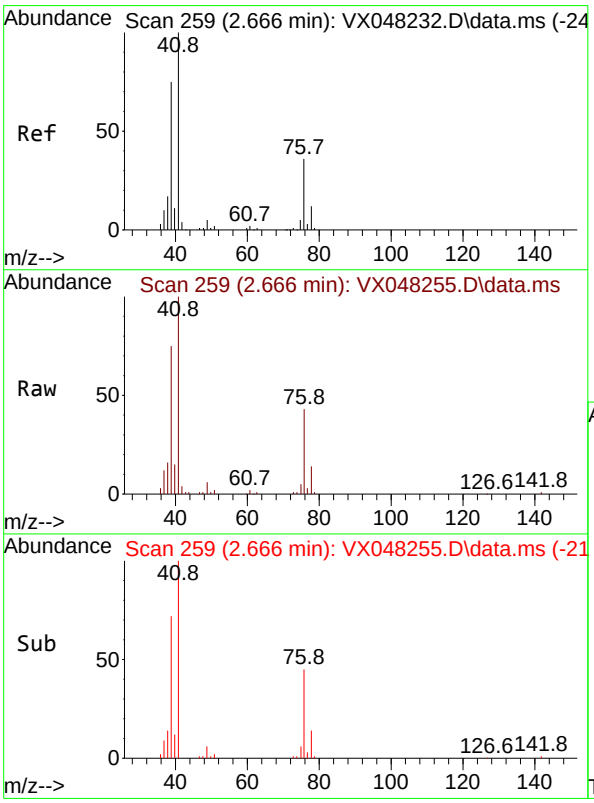
#13
Acrolein
Concen: 99.067 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 56 Resp: 19860

Ion	Ratio	Lower	Upper
56	100		
55	71.1	56.1	84.1

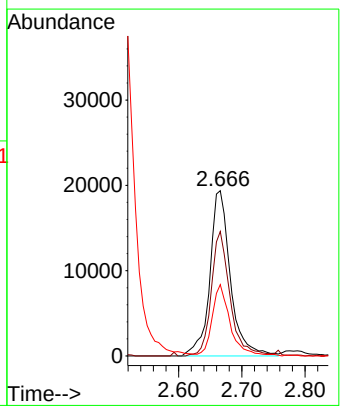


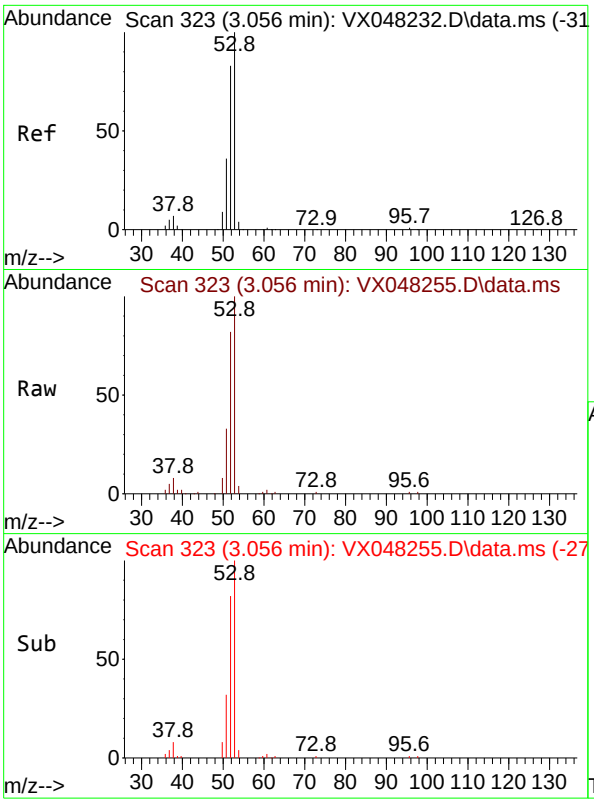


#14
Allyl chloride
Concen: 17.844 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 41 Resp: 43917

Ion	Ratio	Lower	Upper
41	100		
39	68.3	56.0	84.0
76	37.7	27.5	41.3



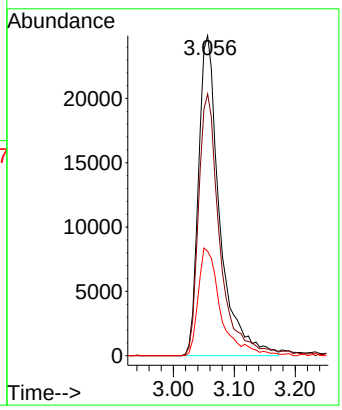


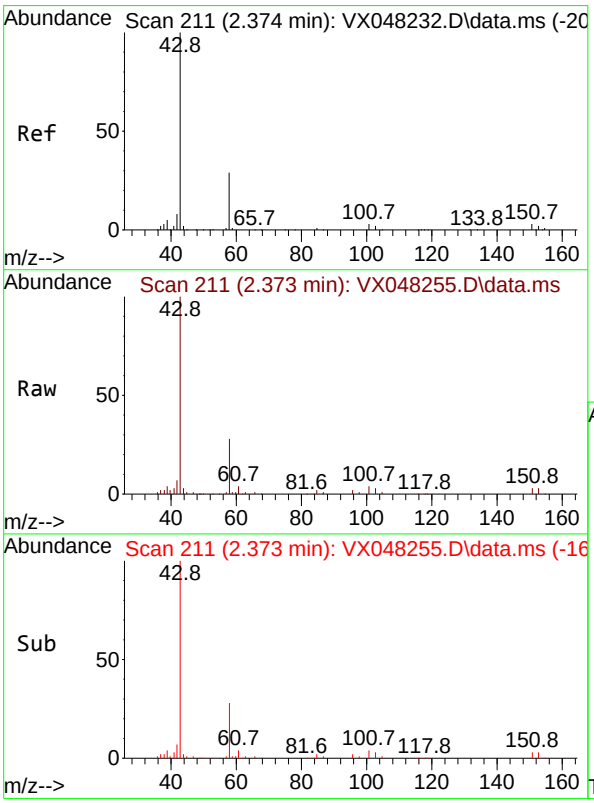
#15
Acrylonitrile
Concen: 84.532 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 53 Resp: 59914

Ion	Ratio	Lower	Upper
53	100		
52	82.0	66.1	99.1
51	36.0	29.0	43.4

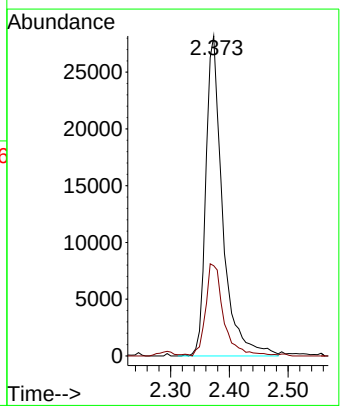


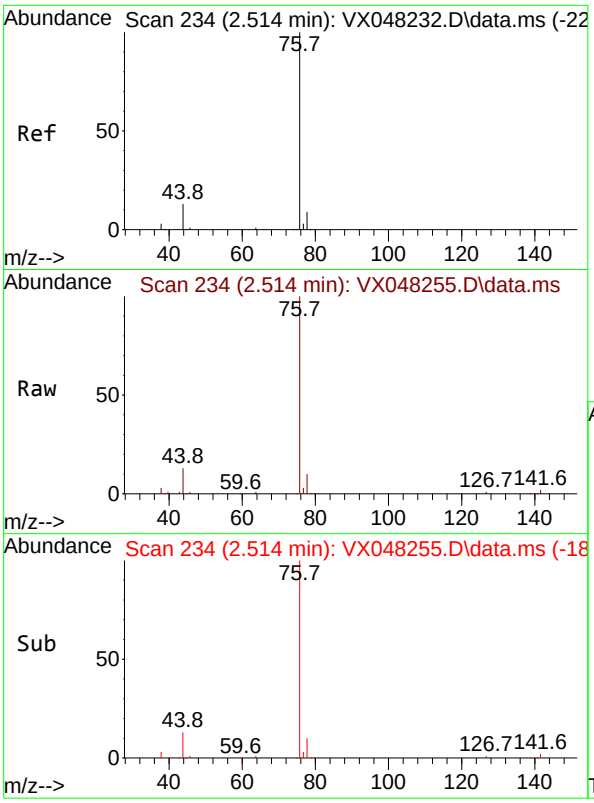


#16
Acetone
Concen: 82.307 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 43 Resp: 55899

Ion	Ratio	Lower	Upper
43	100		
58	27.8	23.4	35.2



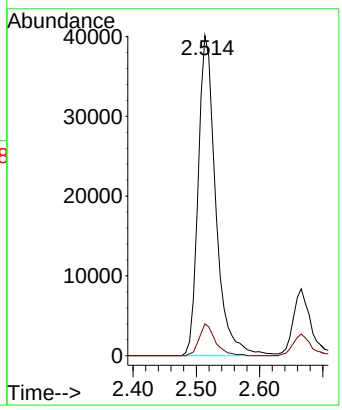


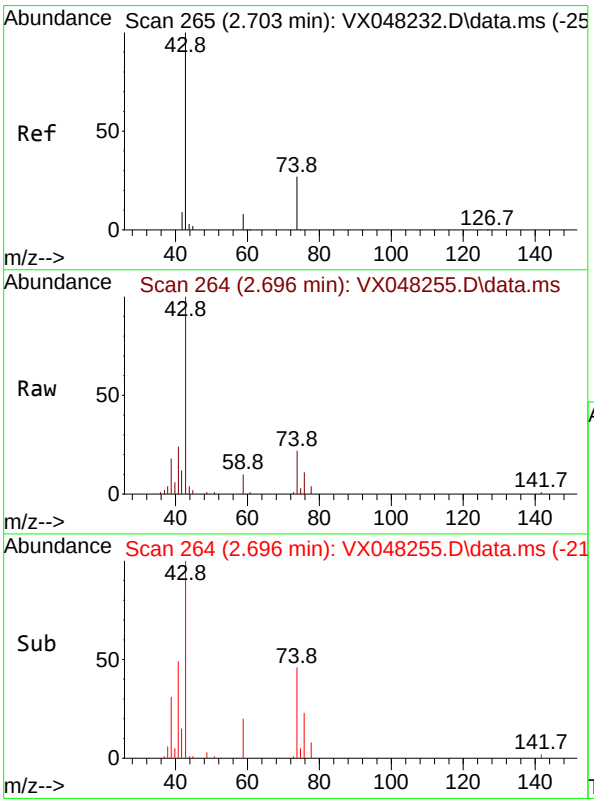
#17
Carbon Disulfide
Concen: 16.623 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 76 Resp: 77662

Ion	Ratio	Lower	Upper
76	100		
78	9.9	7.1	10.7

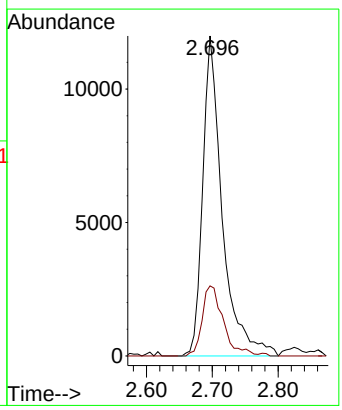


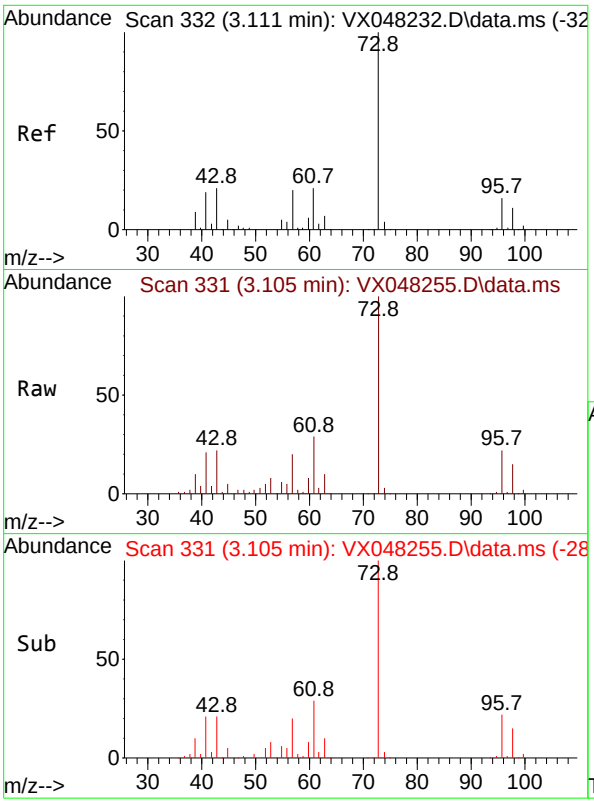


#18
Methyl Acetate
Concen: 17.503 ug/l
RT: 2.696 min Scan# 264
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 43 Resp: 24826

Ion	Ratio	Lower	Upper
43	100		
74	23.6	17.5	26.3



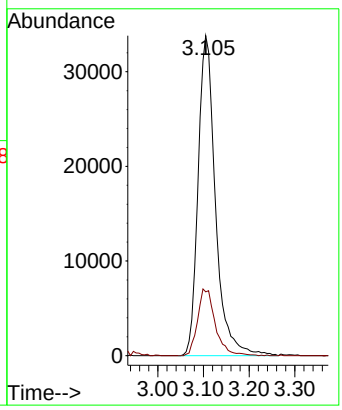


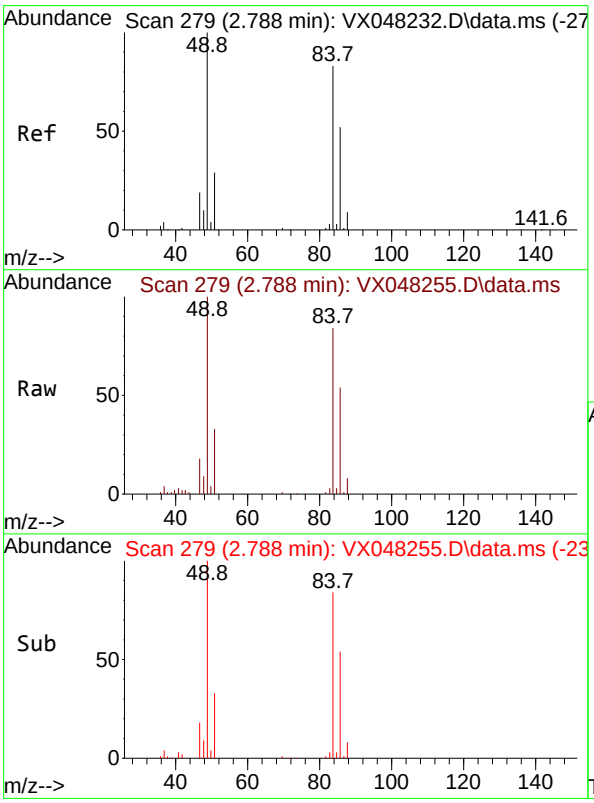
#19
Methyl tert-butyl Ether
Concen: 17.640 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 73 Resp: 89211

Ion	Ratio	Lower	Upper
73	100		
57	19.9	17.7	26.5

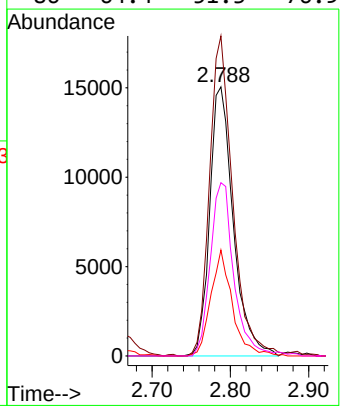


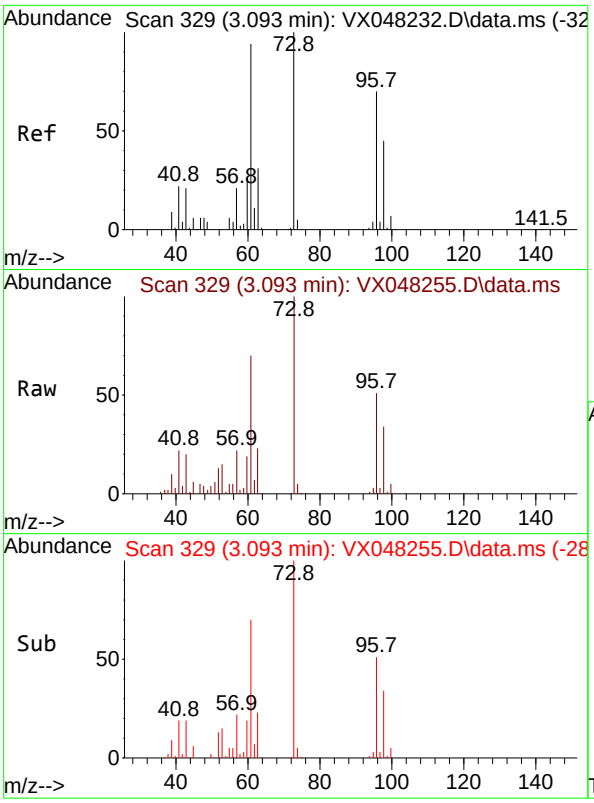


#20
Methylene Chloride
Concen: 19.062 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 84 Resp: 31545

Ion	Ratio	Lower	Upper
84	100		
49	118.9	104.1	156.1
51	39.3	31.3	46.9
86	64.4	51.3	76.9



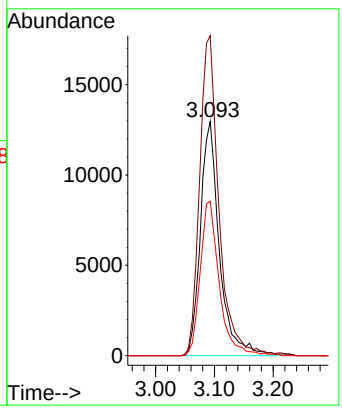


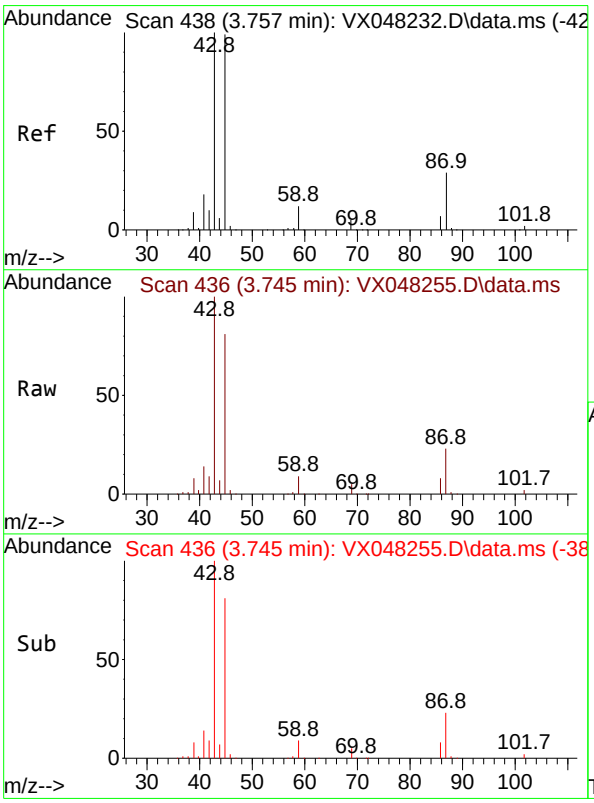
#21
trans-1,2-Dichloroethene
Concen: 17.892 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 96 Resp: 29134

Ion	Ratio	Lower	Upper
96	100		
61	136.6	111.9	167.9
98	66.0	51.2	76.8

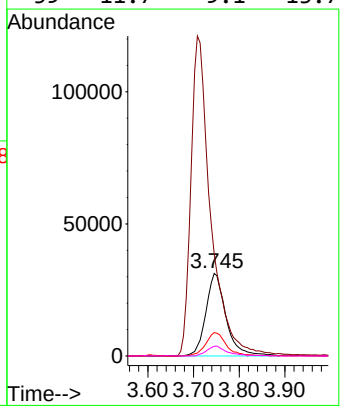


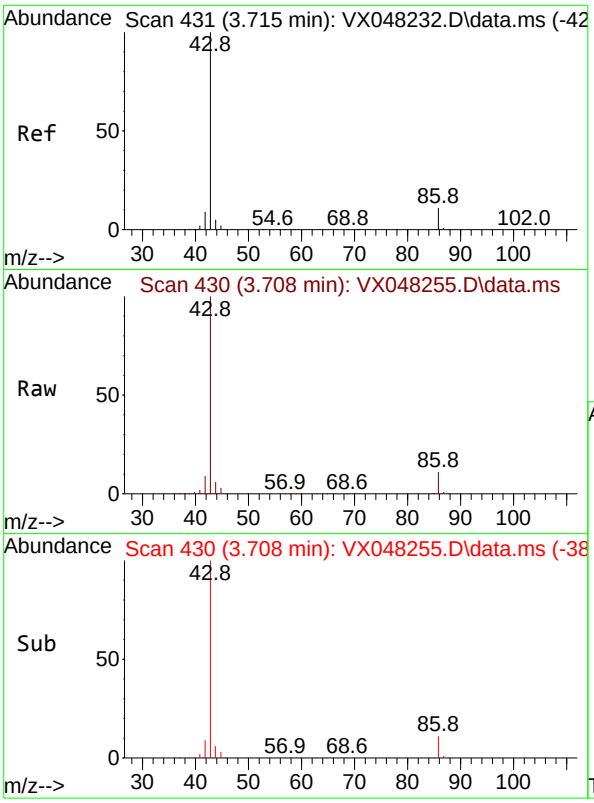


#22
Diisopropyl ether
Concen: 19.476 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 45 Resp: 95604

Ion	Ratio	Lower	Upper
45	100		
43	123.5	89.8	134.8
87	28.3	20.6	31.0
59	11.7	9.1	13.7



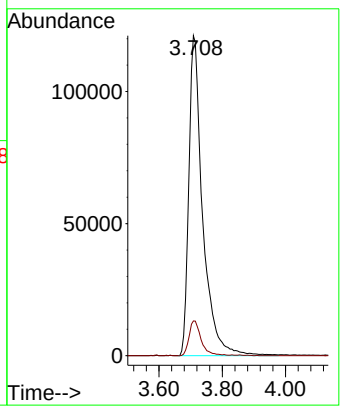


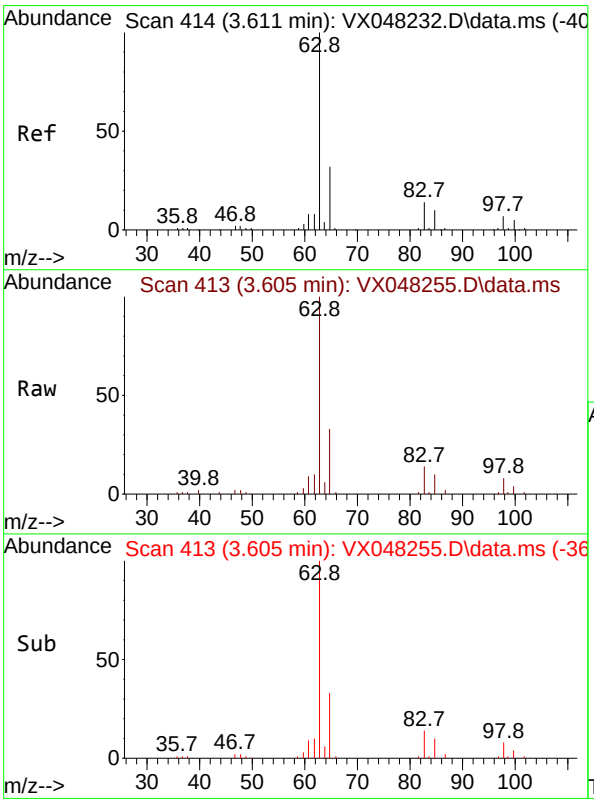
#23
Vinyl Acetate
Concen: 93.748 ug/l
RT: 3.708 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 43 Resp: 367608

Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.9	11.9

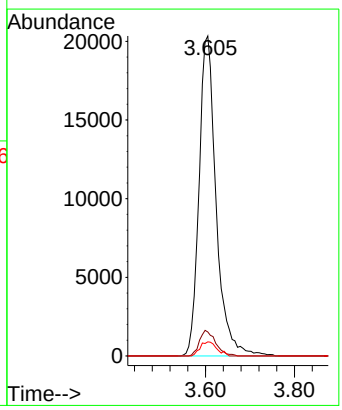


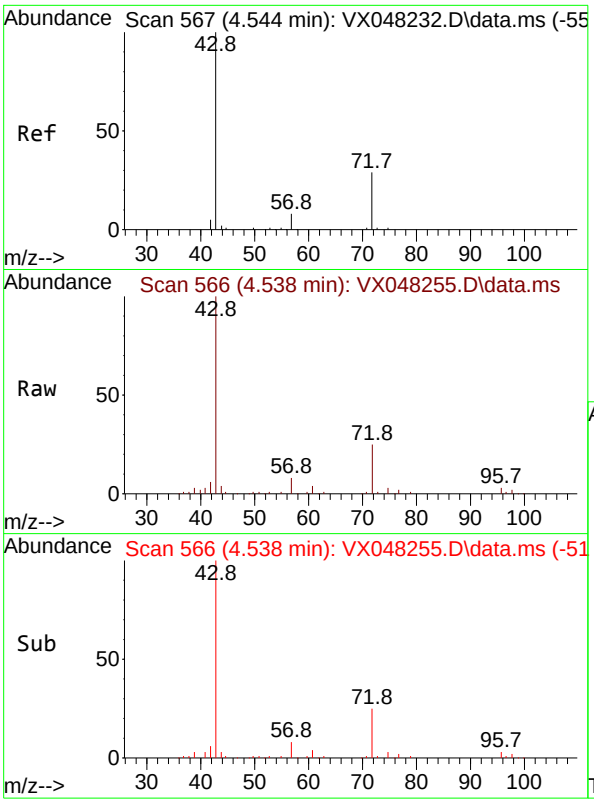


#24
1,1-Dichloroethane
Concen: 18.382 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 63 Resp: 54562

Ion	Ratio	Lower	Upper
63	100		
98	8.3	3.5	10.6
100	4.4	2.1	6.3



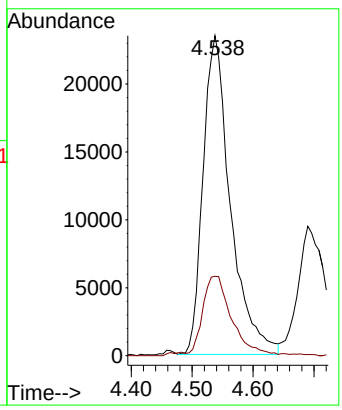


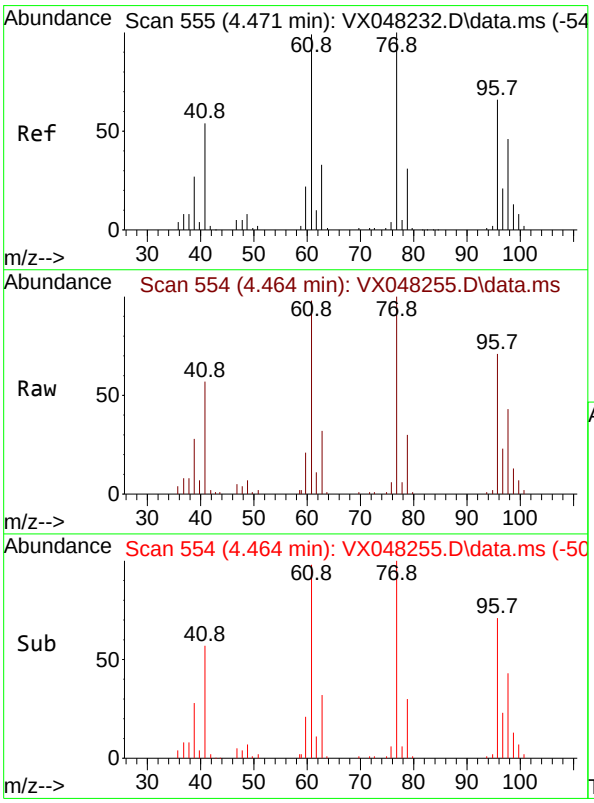
#25
2-Butanone
Concen: 85.214 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 43 Resp: 73253

Ion	Ratio	Lower	Upper
43	100		
72	24.7	19.9	29.9

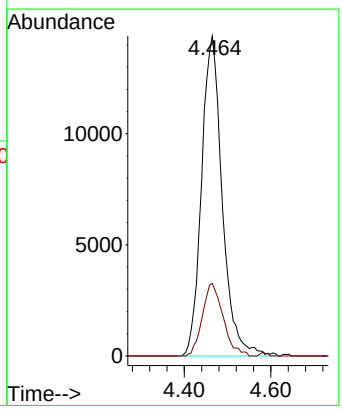


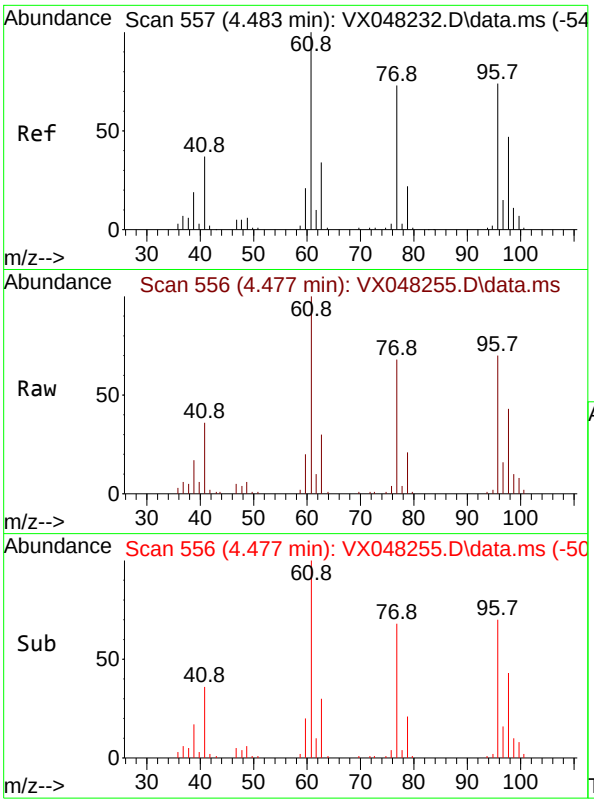


#26
2,2-Dichloropropane
Concen: 17.854 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 77 Resp: 47833

Ion	Ratio	Lower	Upper
77	100		
97	22.7	11.1	33.3



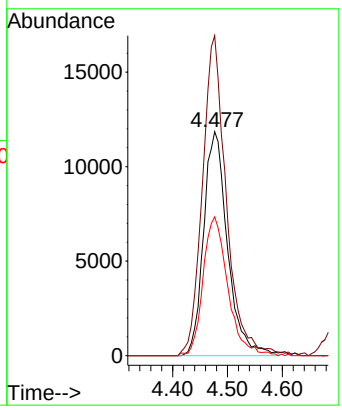


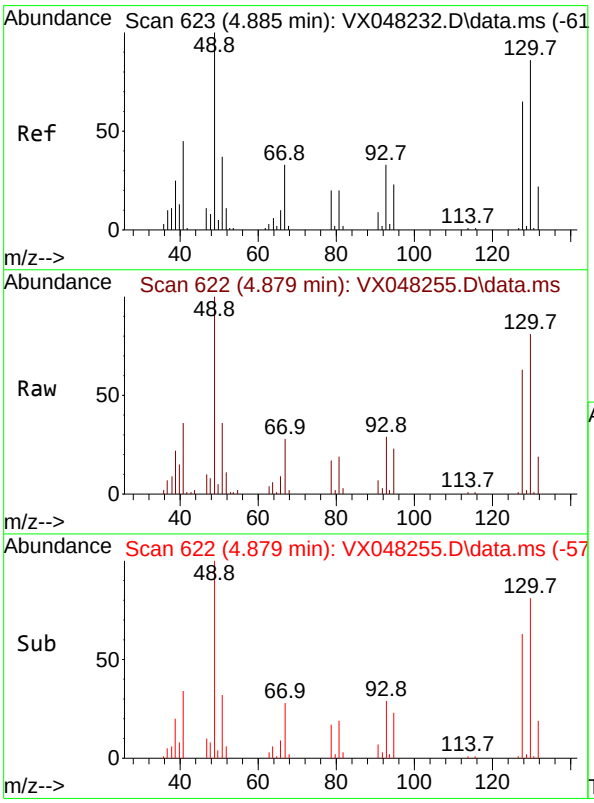
#27
cis-1,2-Dichloroethene
Concen: 18.906 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 96 Resp: 35928

Ion	Ratio	Lower	Upper
96	100		
61	142.8	0.0	294.2
98	64.0	0.0	128.4

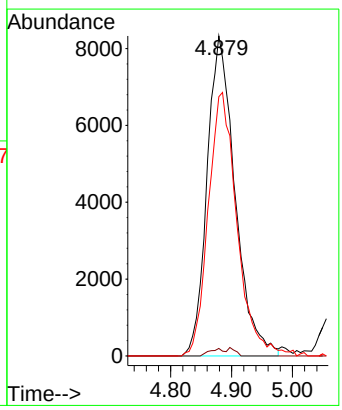


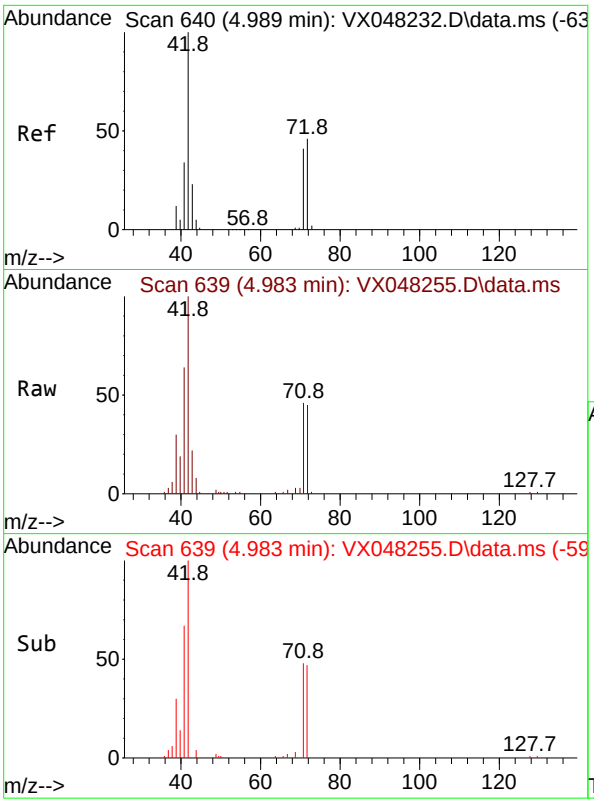


#28
Bromochloromethane
Concen: 21.558 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 49 Resp: 26532

Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	4.4
130	84.6	59.3	88.9



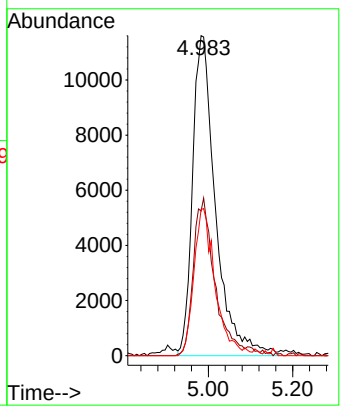


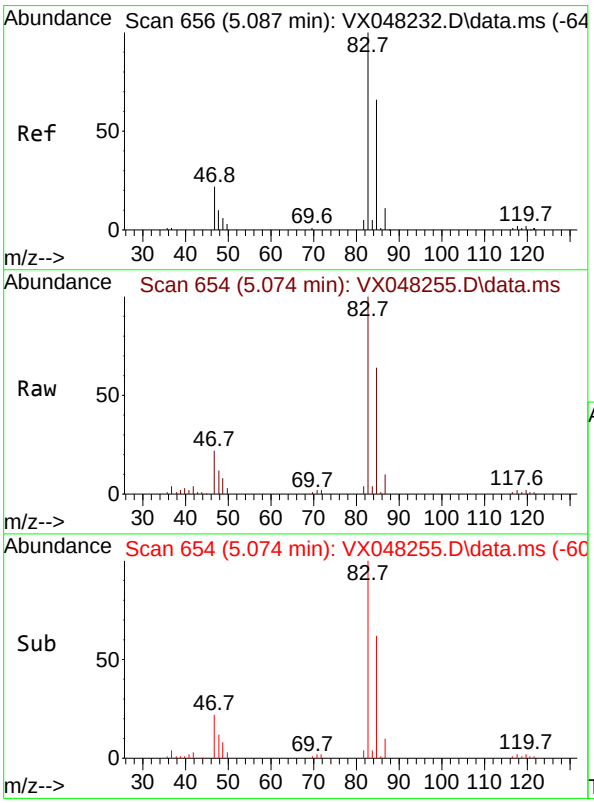
#29
Tetrahydrofuran
Concen: 85.433 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 42 Resp: 43984

Ion	Ratio	Lower	Upper
42	100		
72	45.6	35.3	52.9
71	42.9	32.2	48.4

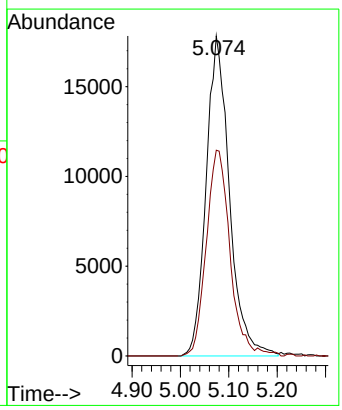


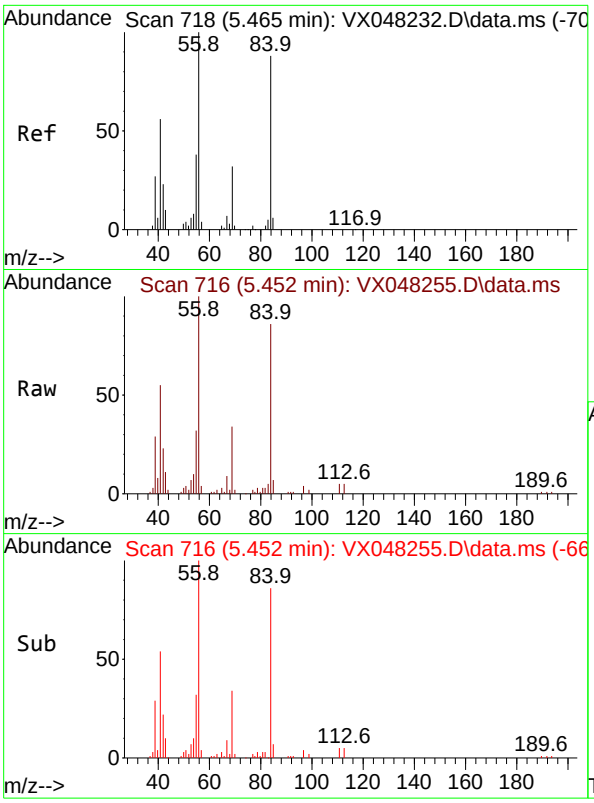


#30
Chloroform
Concen: 18.803 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 83 Resp: 59628

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.1	75.1



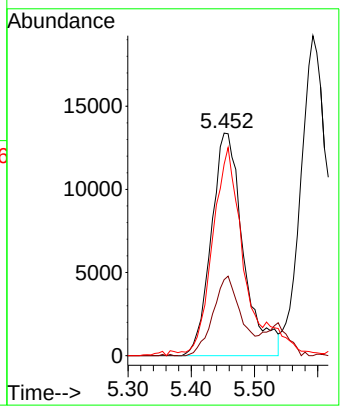


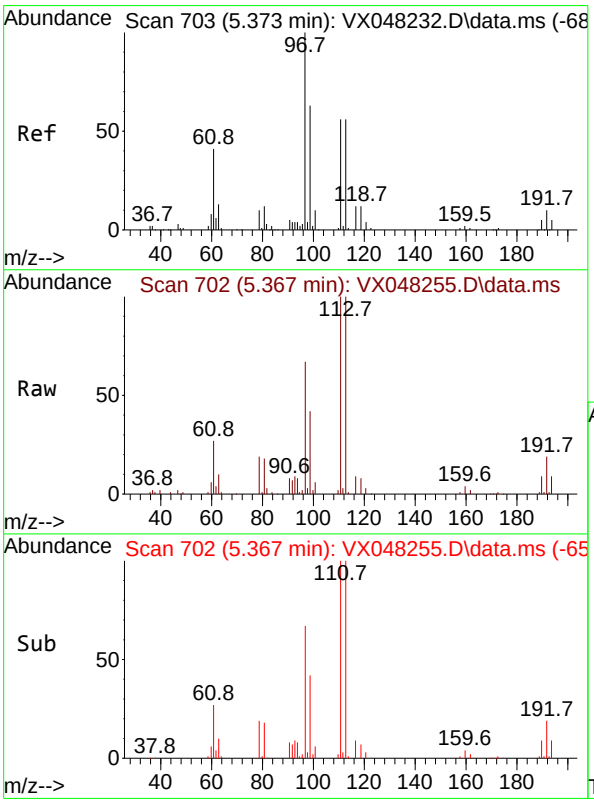
#31
Cyclohexane
Concen: 19.171 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 56 Resp: 47112

Ion	Ratio	Lower	Upper
56	100		
69	34.2	23.0	34.6
84	84.6	64.6	97.0

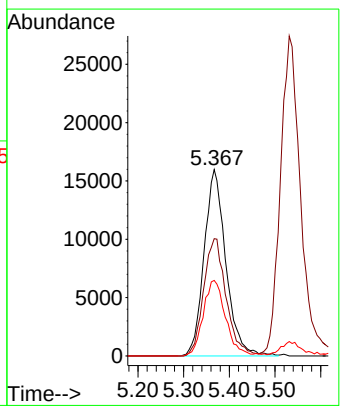


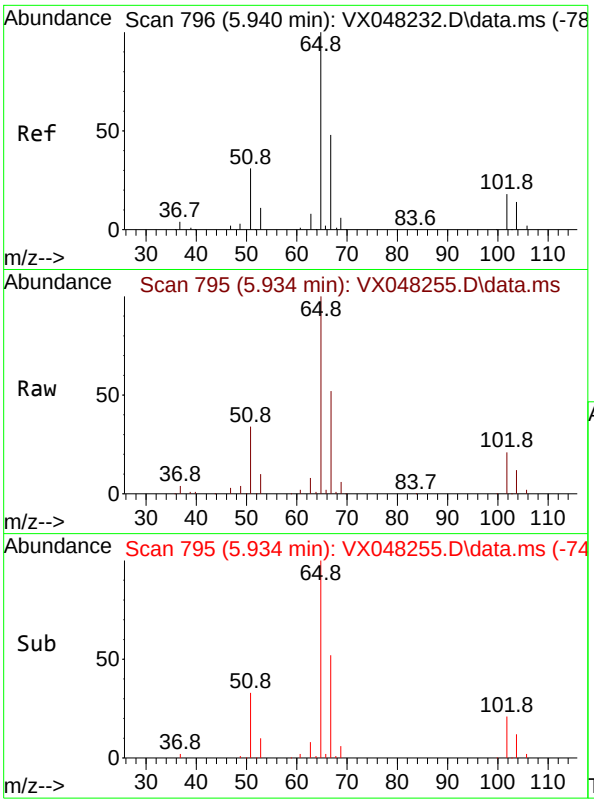


#32
1,1,1-Trichloroethane
Concen: 18.082 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 97 Resp: 52848

Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.7	77.5
61	41.4	34.8	52.2



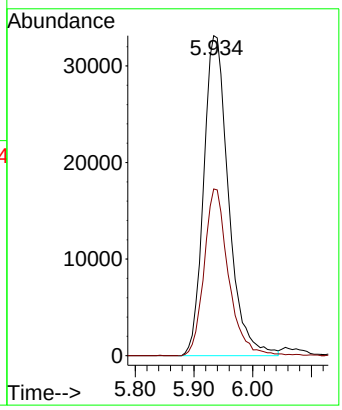


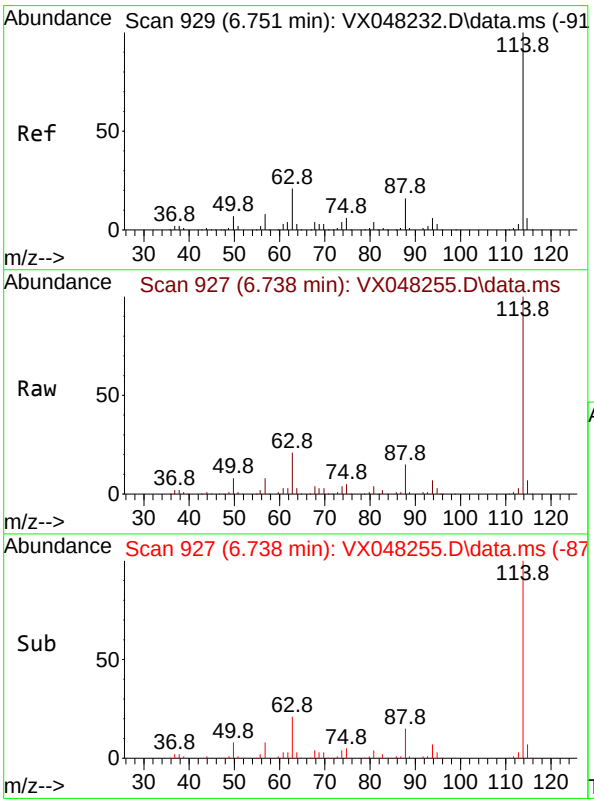
#33
1,2-Dichloroethane-d4
Concen: 49.180 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 65 Resp: 97363

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	105.0

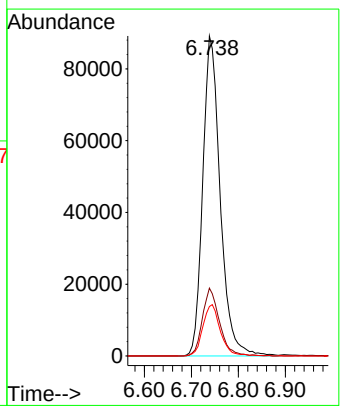


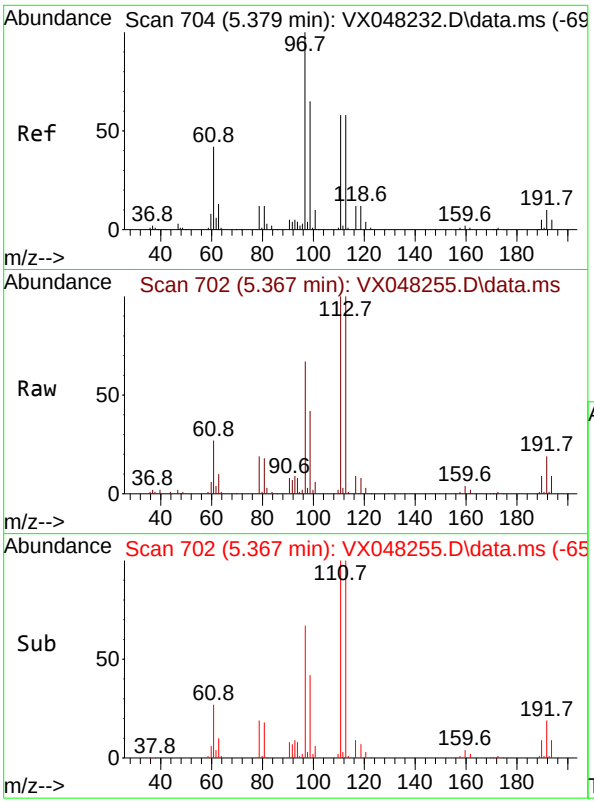


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.738 min Scan# 927
Delta R.T. -0.007 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:114 Resp: 230109

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	43.2
88	15.5	0.0	33.6



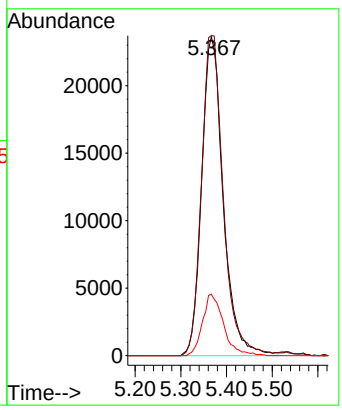


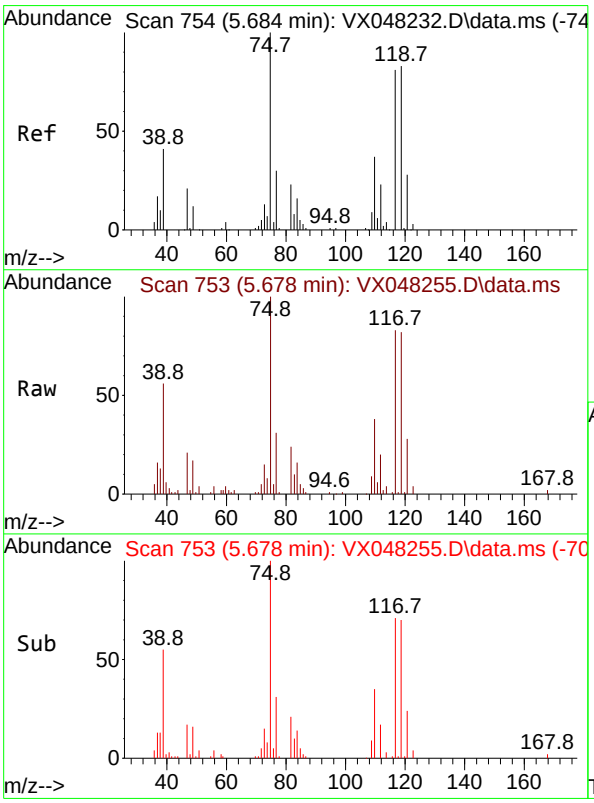
#35
Dibromofluoromethane
Concen: 49.256 ug/l
RT: 5.367 min Scan# 7(
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion:113 Resp: 77378

Ion	Ratio	Lower	Upper
113	100		
111	101.2	82.2	123.4
192	18.9	15.1	22.7

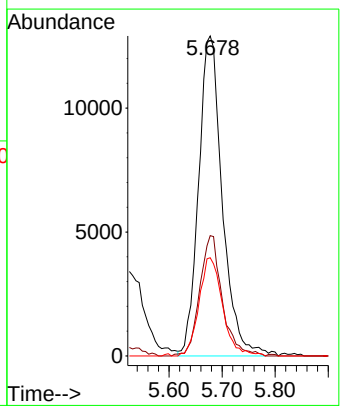


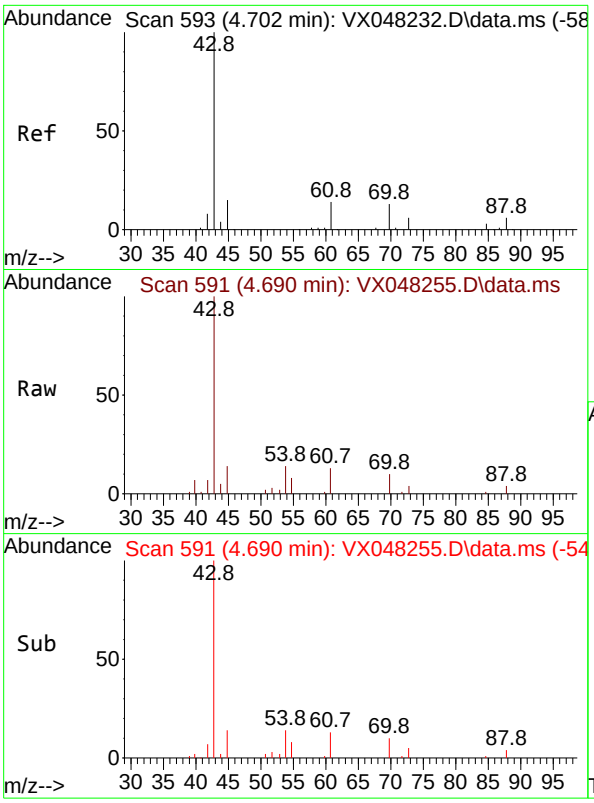


#36
1,1-Dichloropropene
Concen: 18.023 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 75 Resp: 40242

Ion	Ratio	Lower	Upper
75	100		
110	35.6	17.7	53.1
77	30.3	24.3	36.5



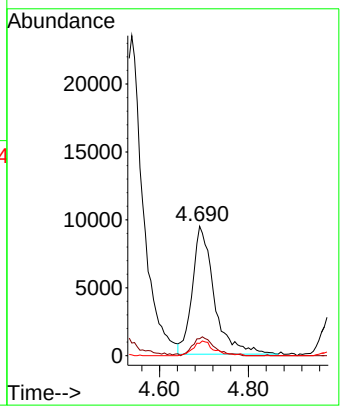


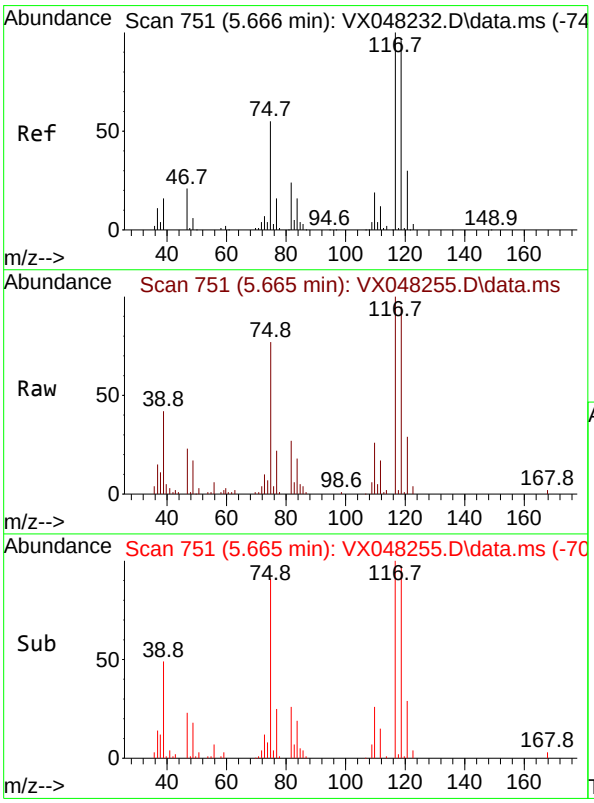
#37
Ethyl Acetate
Concen: 17.426 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 43 Resp: 32251

Ion	Ratio	Lower	Upper
43	100		
61	14.2	10.6	15.8
70	10.5	7.8	11.6

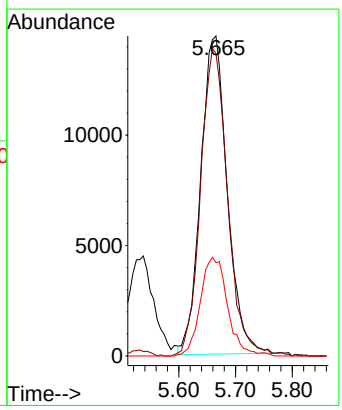


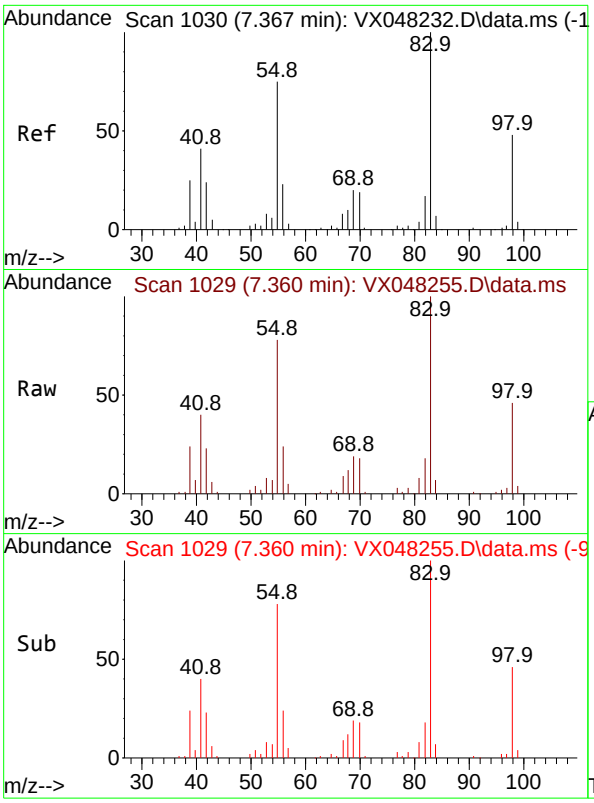


#38
Carbon Tetrachloride
Concen: 17.024 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:117 Resp: 46896

Ion	Ratio	Lower	Upper
117	100		
119	94.4	77.2	115.8
121	29.4	24.8	37.2



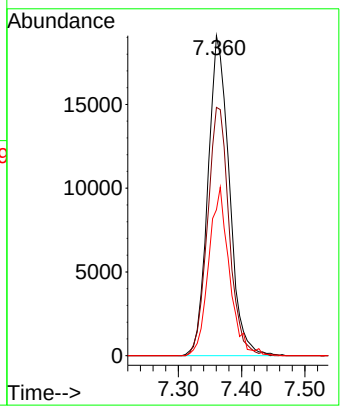


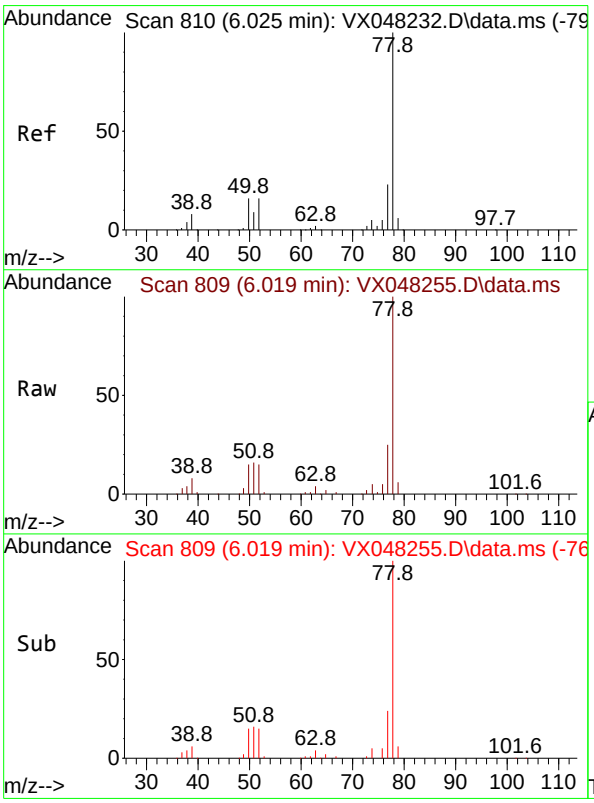
#39
Methylcyclohexane
Concen: 16.976 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 83 Resp: 44764

Ion	Ratio	Lower	Upper
83	100		
55	77.6	66.2	99.2
98	45.6	38.9	58.3

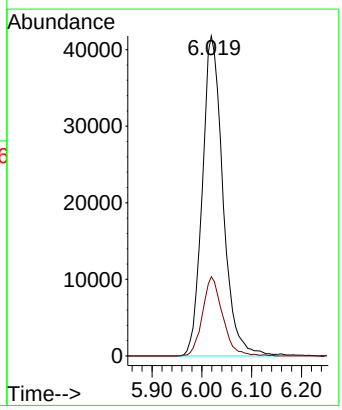


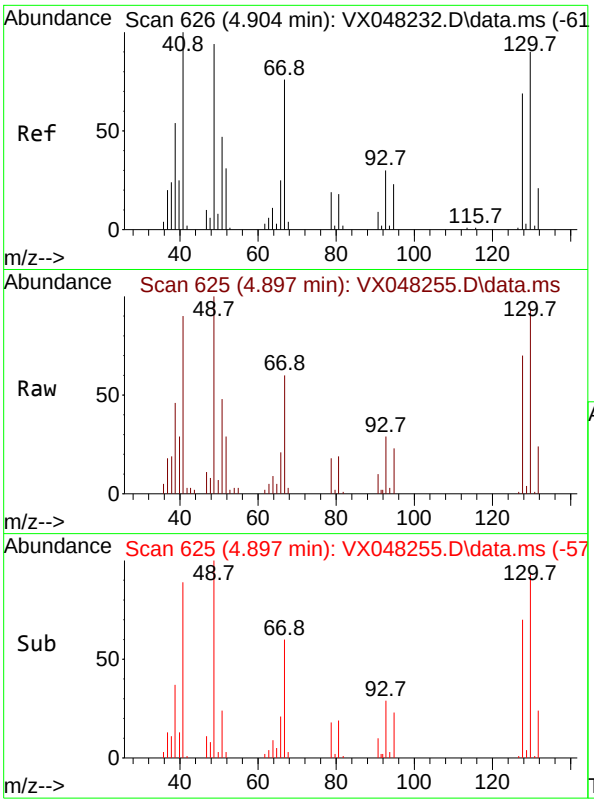


#40
Benzene
Concen: 18.540 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 78 Resp: 120185

Ion	Ratio	Lower	Upper
78	100		
77	24.7	19.3	28.9



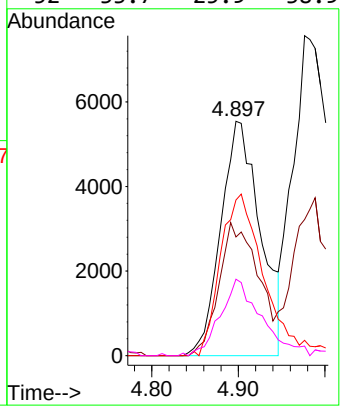


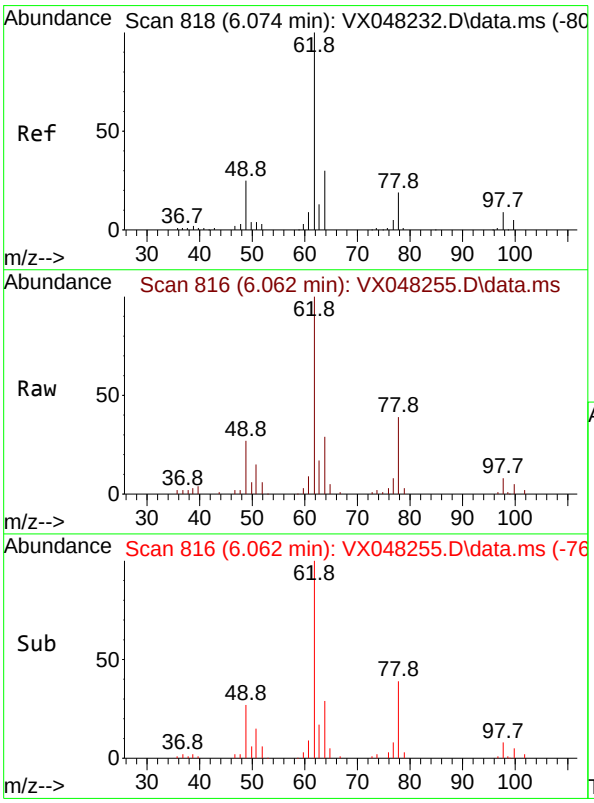
#41
Methacrylonitrile
Concen: 18.099 ug/l
RT: 4.897 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 41 Resp: 17591

Ion	Ratio	Lower	Upper
41	100		
39	56.0	44.0	66.0
67	77.1	58.7	88.1
52	33.7	25.9	38.9

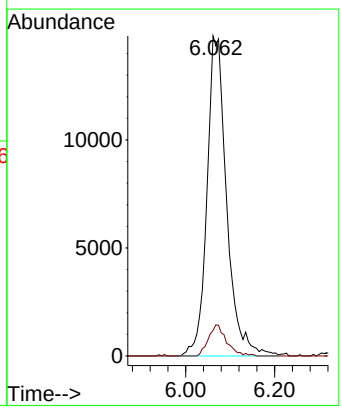


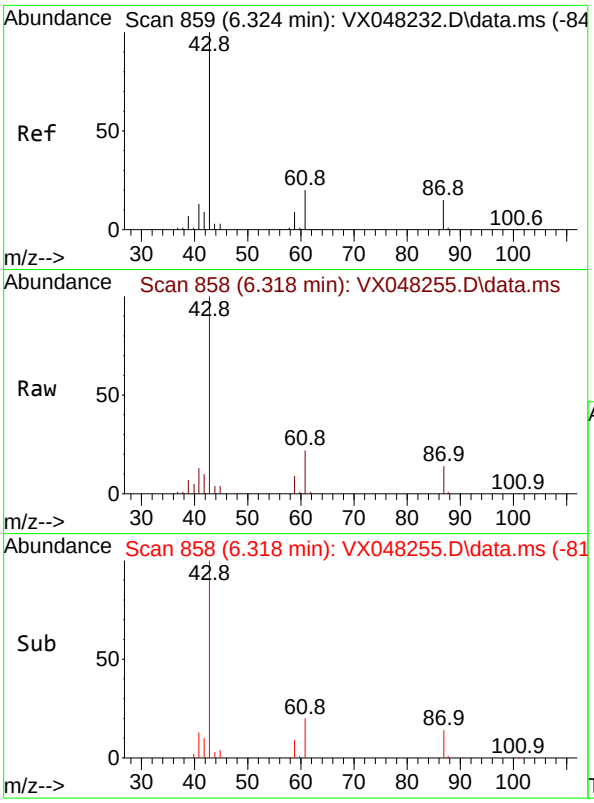


#42
1,2-Dichloroethane
Concen: 19.053 ug/l
RT: 6.062 min Scan# 816
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 62 Resp: 45577

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	17.2



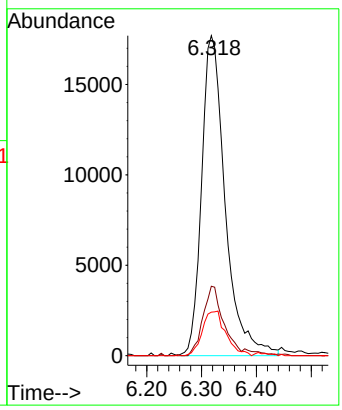


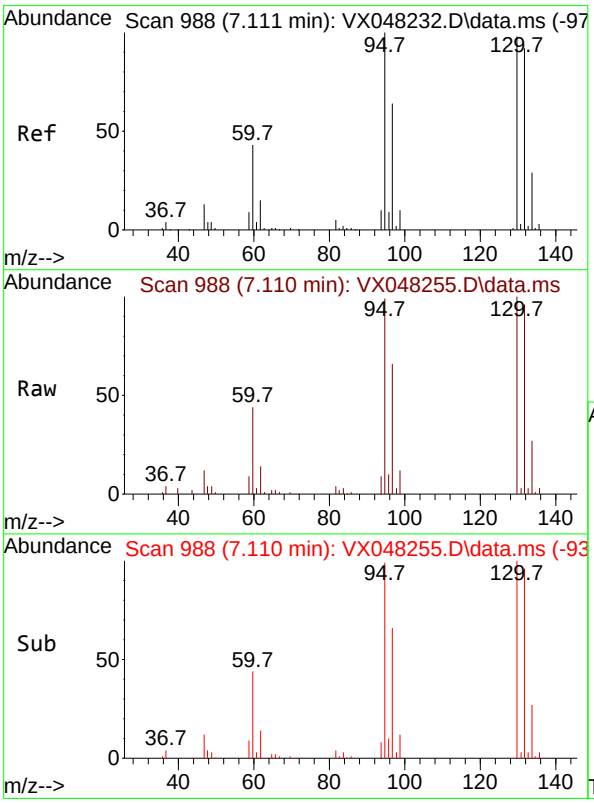
#43
Isopropyl Acetate
Concen: 17.402 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 43 Resp: 52903

Ion	Ratio	Lower	Upper
43	100		
61	20.0	14.9	22.3
87	13.8	9.4	14.2

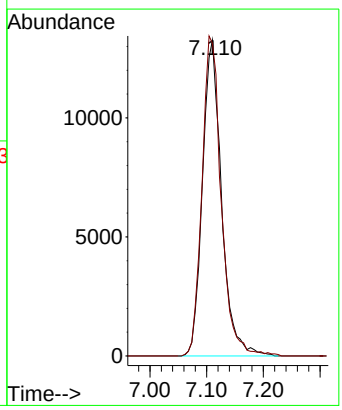


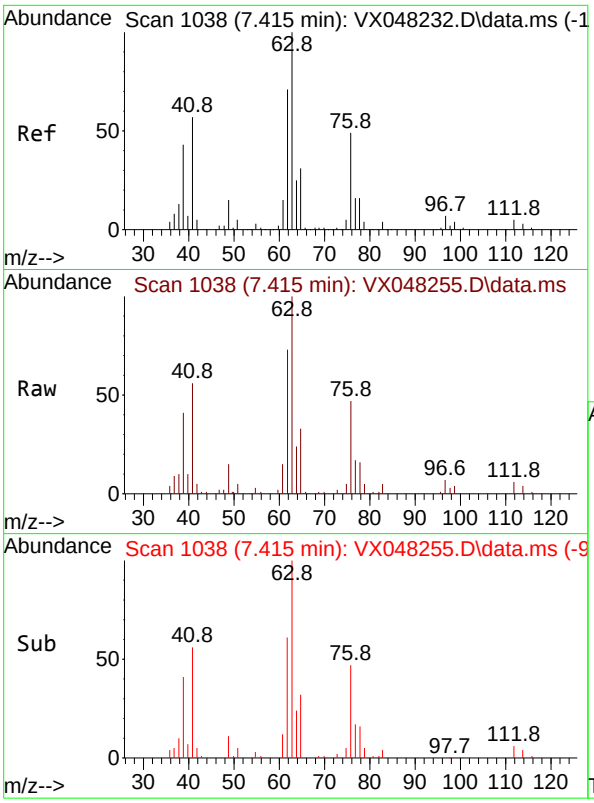


#44
Trichloroethene
Concen: 18.107 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:130 Resp: 30995

Ion	Ratio	Lower	Upper
130	100		
95	98.9	0.0	200.6



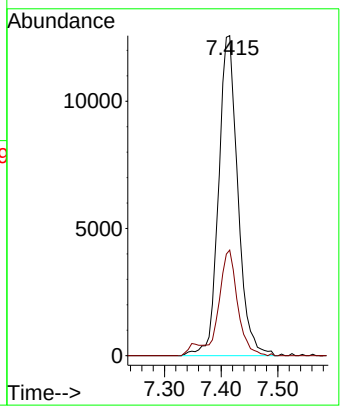


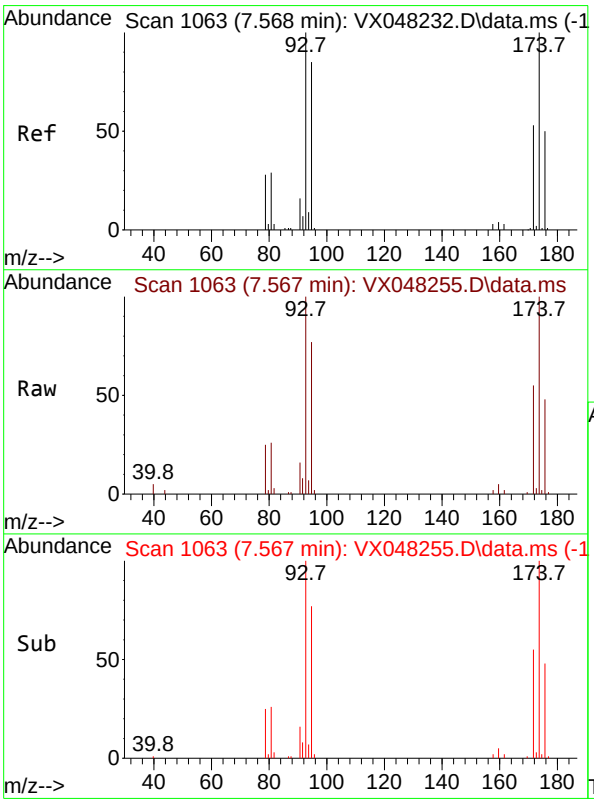
#45
1,2-Dichloropropane
Concen: 19.252 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 63 Resp: 29673

Ion	Ratio	Lower	Upper
63	100		
65	33.0	24.1	36.1

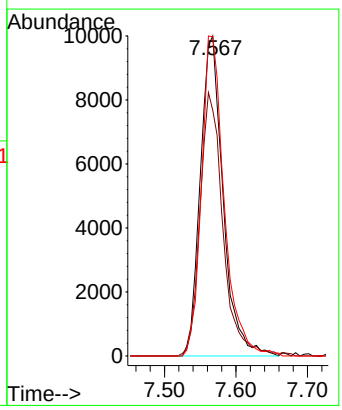


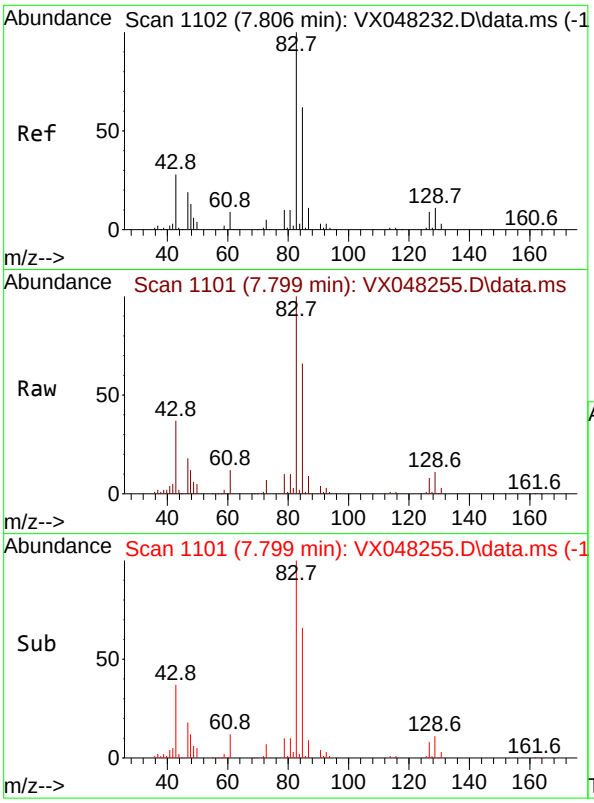


#46
Dibromomethane
Concen: 18.352 ug/l
RT: 7.567 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 93 Resp: 22037

Ion	Ratio	Lower	Upper
93	100		
95	82.8	65.9	98.9
174	100.0	71.7	107.5



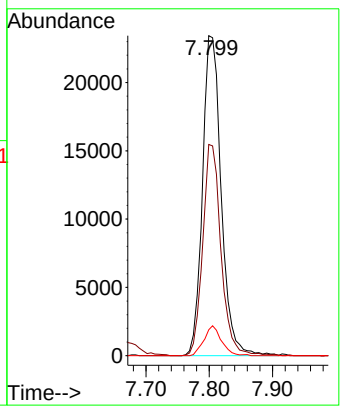


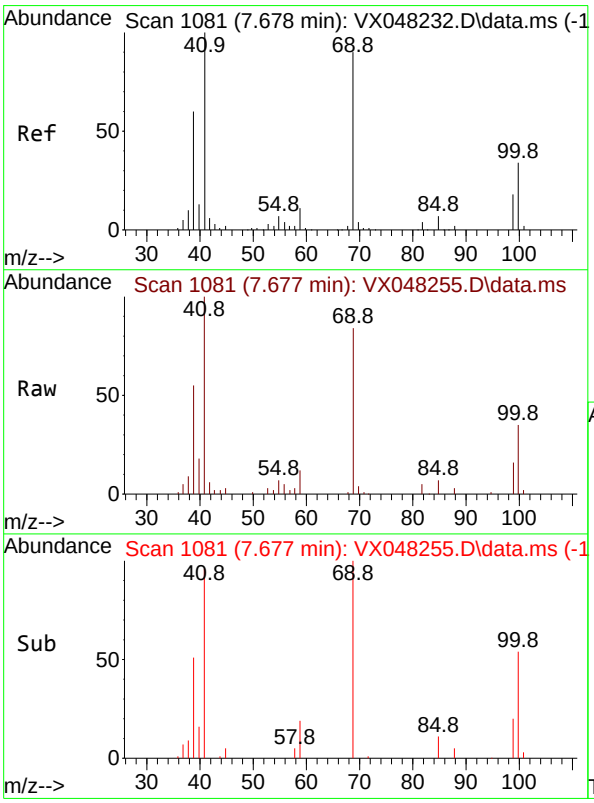
#47
Bromodichloromethane
Concen: 18.606 ug/l
RT: 7.799 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 83 Resp: 48240

Ion	Ratio	Lower	Upper
83	100		
85	66.0	52.2	78.4
127	8.1	7.3	10.9

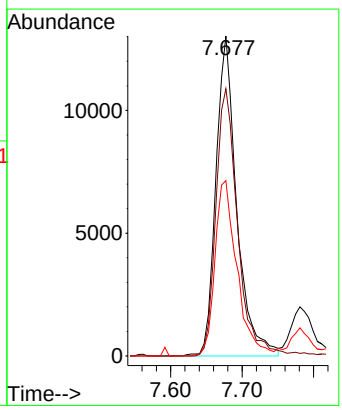


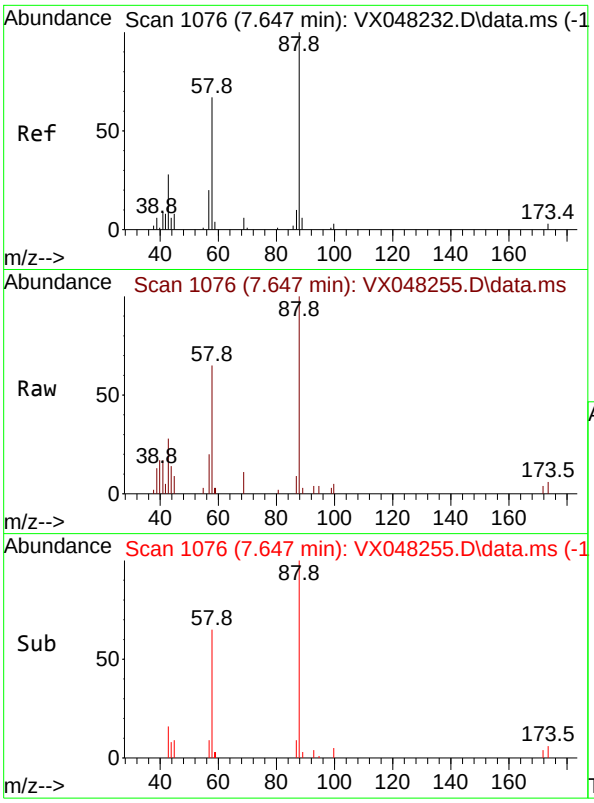


#48
Methyl methacrylate
Concen: 17.158 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 41 Resp: 26320

Ion	Ratio	Lower	Upper
41	100		
69	86.9	63.4	95.0
39	57.9	47.1	70.7



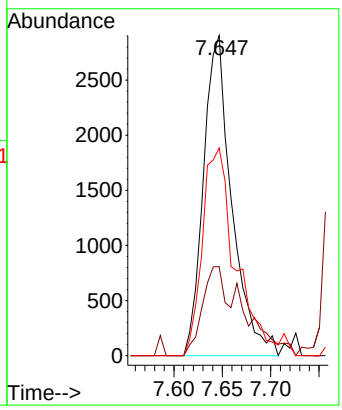


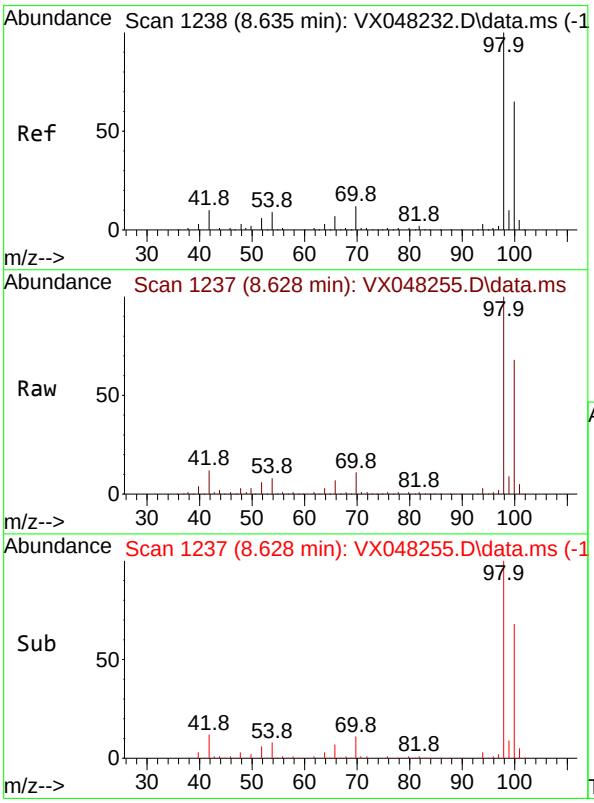
#49
1,4-Dioxane
Concen: 292.405 ug/l
RT: 7.647 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 88 Resp: 5926

Ion	Ratio	Lower	Upper
88	100		
43	24.0	35.0	52.4#
58	75.7	61.9	92.9

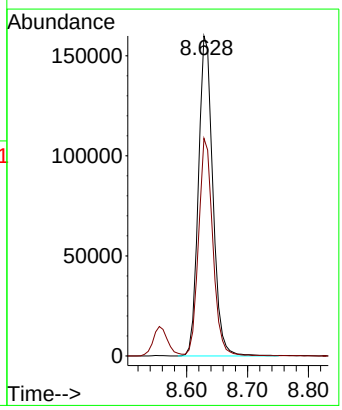


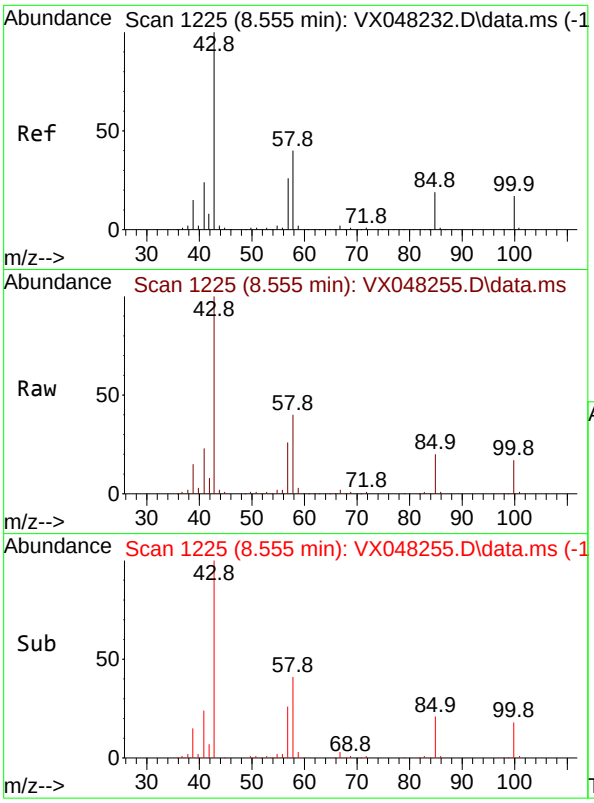


#50
Toluene-d8
Concen: 47.776 ug/l
RT: 8.628 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 98 Resp: 263067

Ion	Ratio	Lower	Upper
98	100		
100	67.1	53.0	79.4



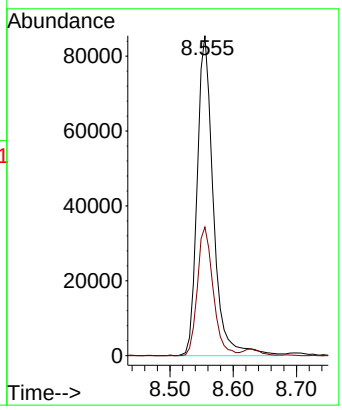


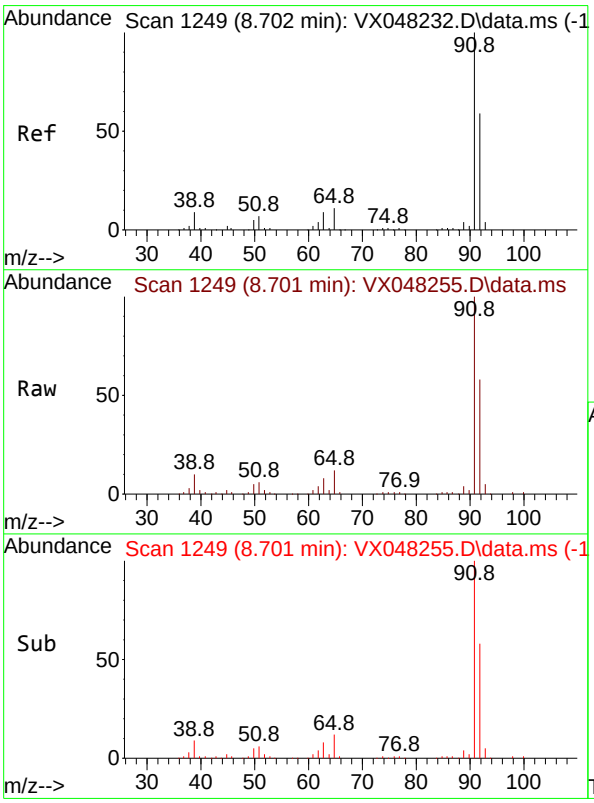
#51
4-Methyl-2-Pentanone
Concen: 86.877 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 43 Resp: 152275

Ion	Ratio	Lower	Upper
43	100		
58	39.2	29.5	44.3

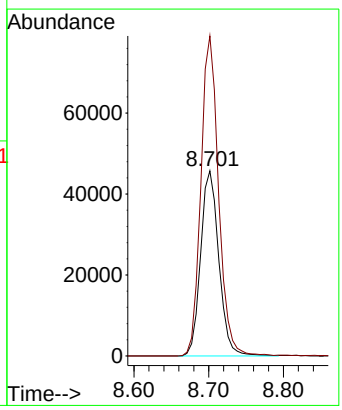


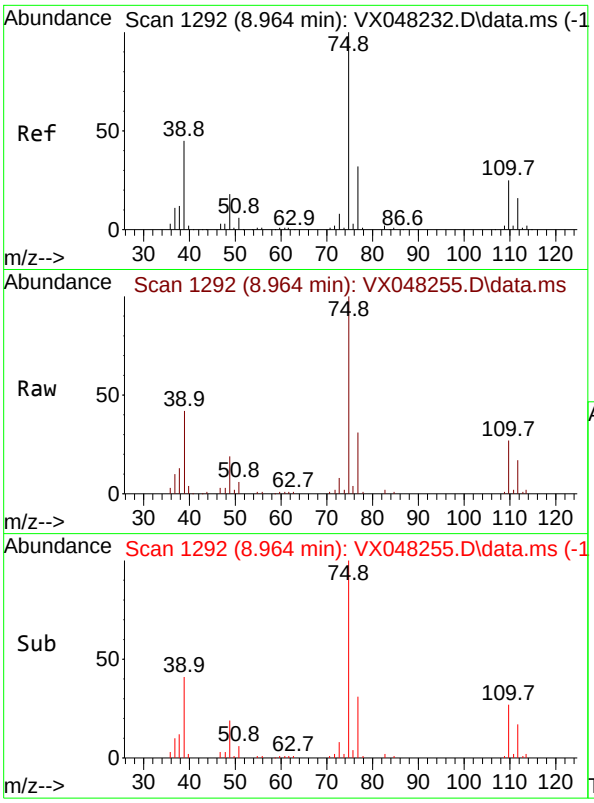


#52
Toluene
Concen: 18.755 ug/l
RT: 8.701 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 92 Resp: 77240

Ion	Ratio	Lower	Upper
92	100		
91	168.4	136.1	204.1



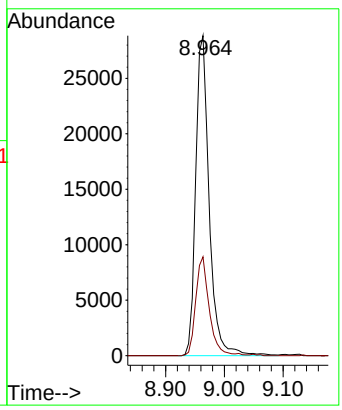


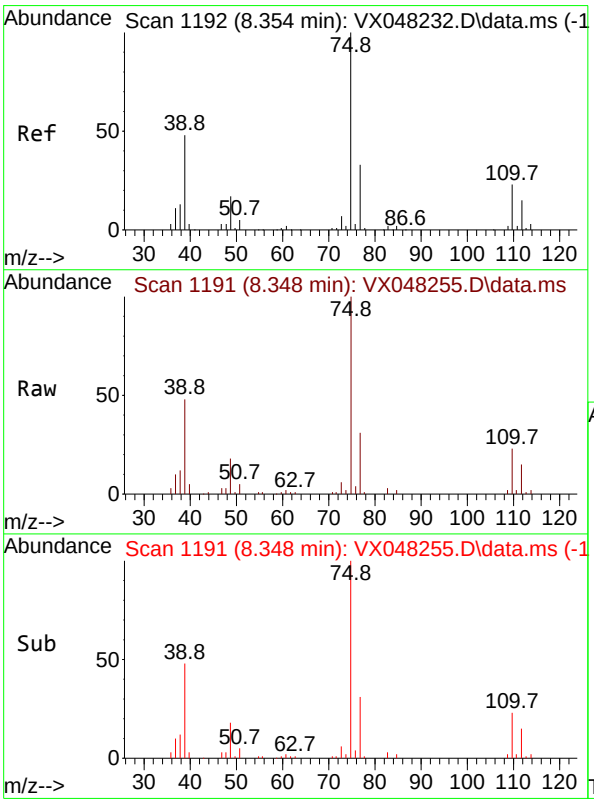
#53
t-1,3-Dichloropropene
Concen: 18.419 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 75 Resp: 46020

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.0	37.6

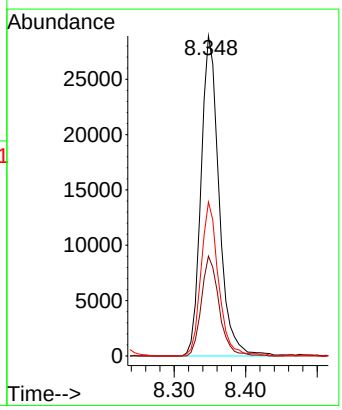


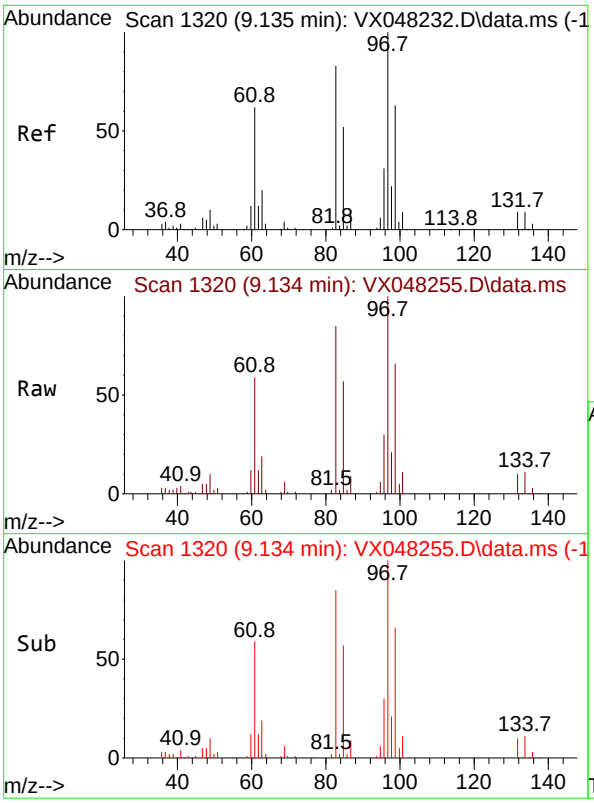


#54
cis-1,3-Dichloropropene
Concen: 18.810 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 75 Resp: 50705

Ion	Ratio	Lower	Upper
75	100		
77	31.2	24.9	37.3
39	48.1	42.6	64.0



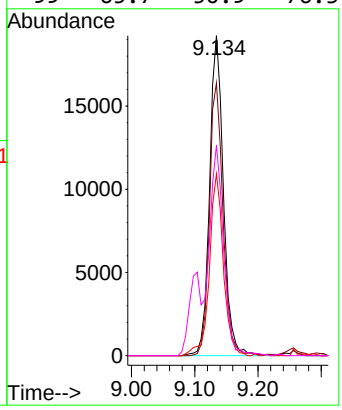


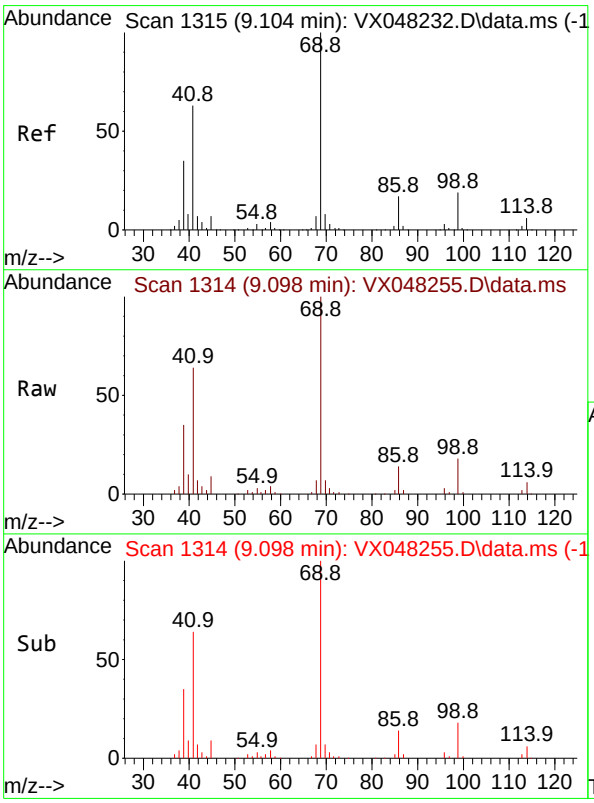
#55
1,1,2-Trichloroethane
Concen: 19.140 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 97 Resp: 29313

Ion	Ratio	Lower	Upper
97	100		
83	85.2	70.6	105.8
85	56.8	45.0	67.6
99	65.7	50.9	76.3

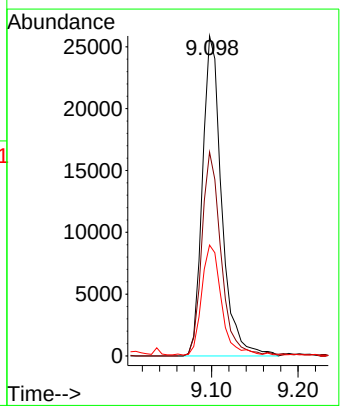


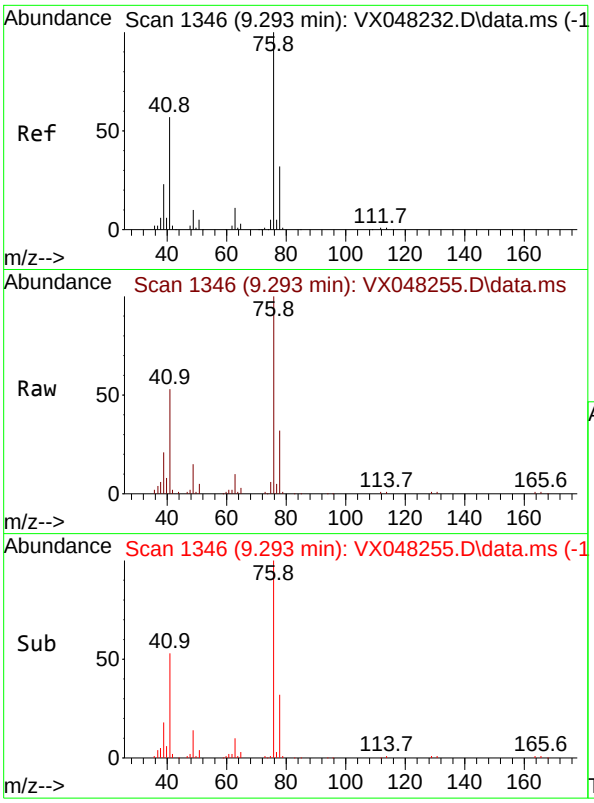


#56
Ethyl methacrylate
Concen: 17.852 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 69 Resp: 39990

Ion	Ratio	Lower	Upper
69	100		
41	64.4	56.0	84.0
39	35.4	31.6	47.4



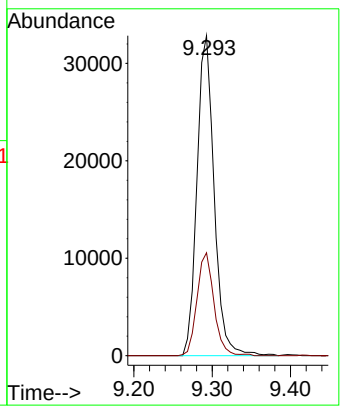


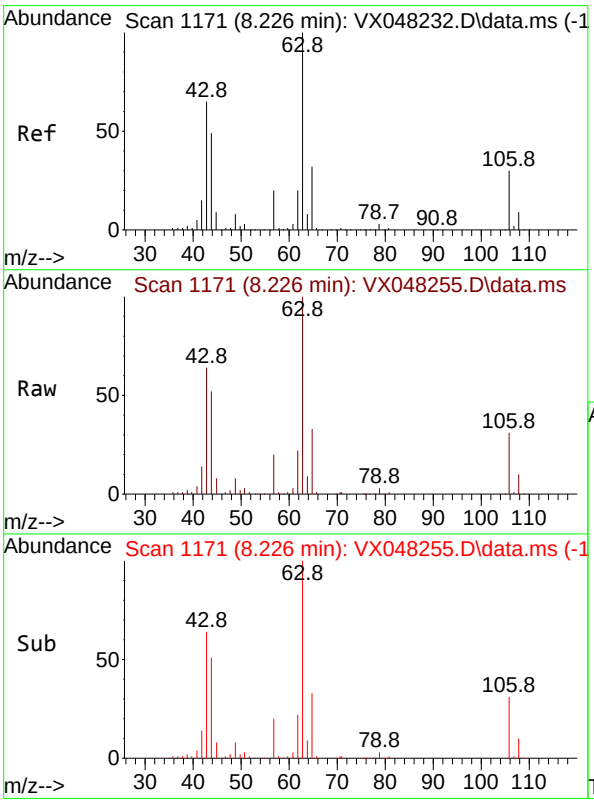
#57
1,3-Dichloropropane
Concen: 19.160 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 76 Resp: 50123

Ion	Ratio	Lower	Upper
76	100		
78	31.8	25.4	38.0

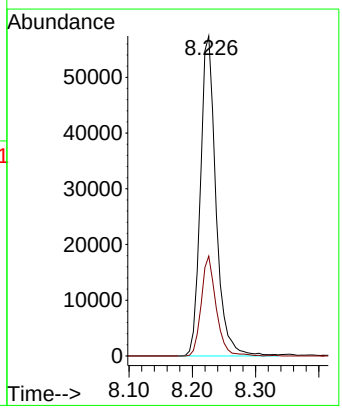


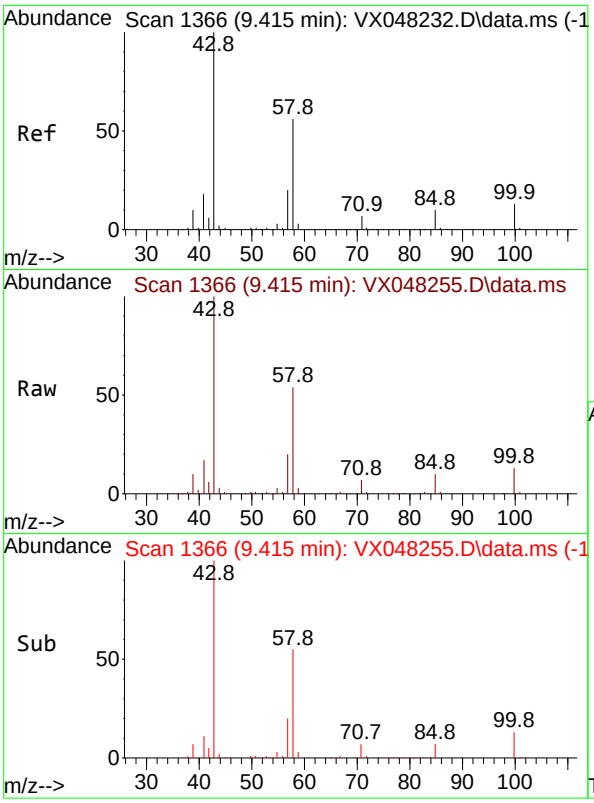


#58
2-Chloroethyl Vinyl ether
Concen: 82.586 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 63 Resp: 98096

Ion	Ratio	Lower	Upper
63	100		
106	30.0	22.2	33.2



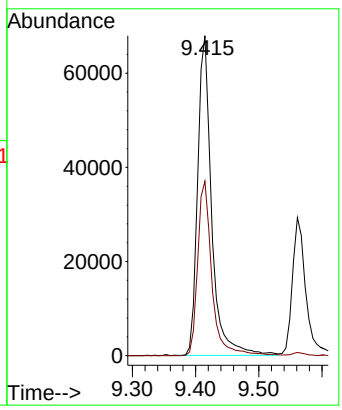


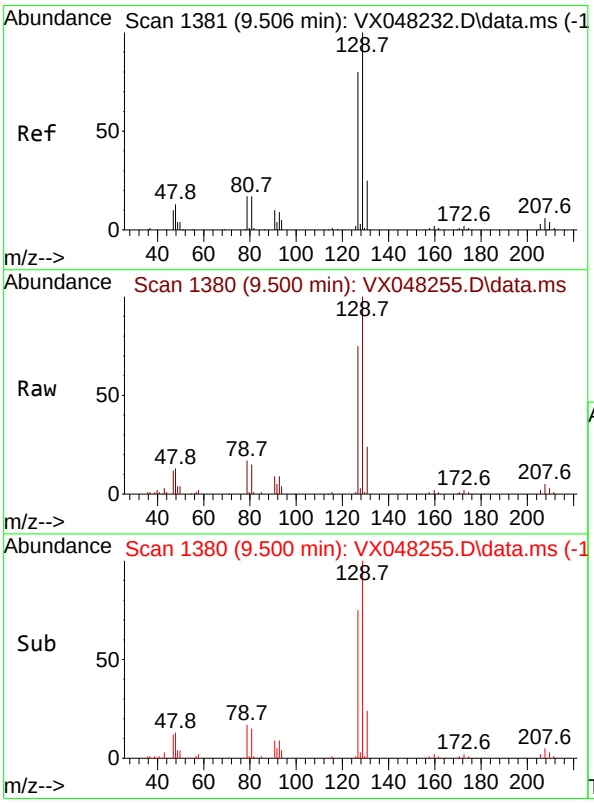
#59
2-Hexanone
Concen: 85.909 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 43 Resp: 104997

Ion	Ratio	Lower	Upper
43	100		
58	55.3	26.3	78.8

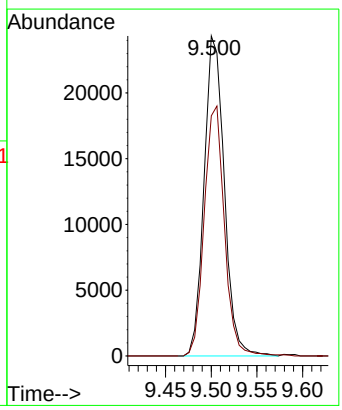


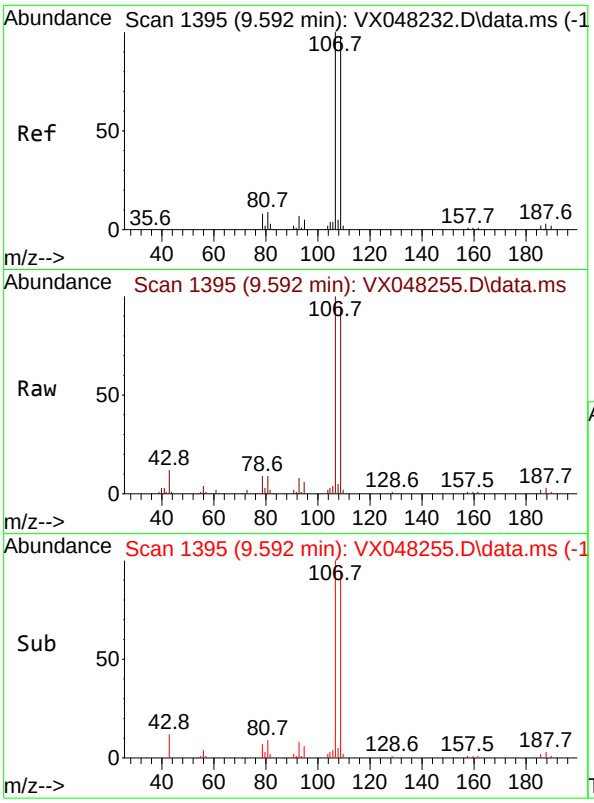


#60
Dibromochloromethane
Concen: 18.114 ug/l
RT: 9.500 min Scan# 1380
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:129 Resp: 37288

Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.6	115.7



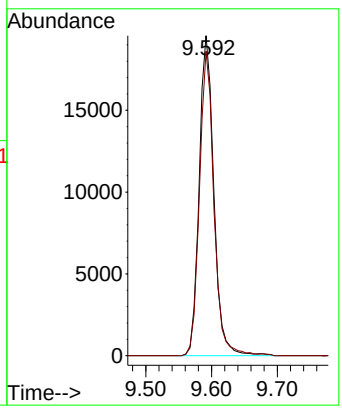


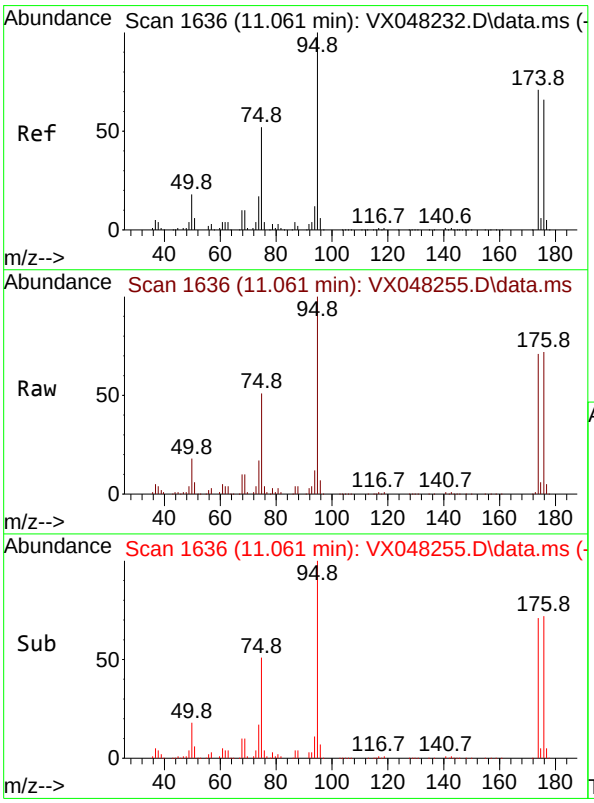
#61
1,2-Dibromoethane
Concen: 18.554 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion:107 Resp: 30294

Ion	Ratio	Lower	Upper
107	100		
109	94.2	77.0	115.4

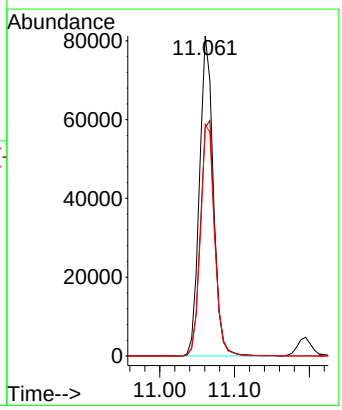


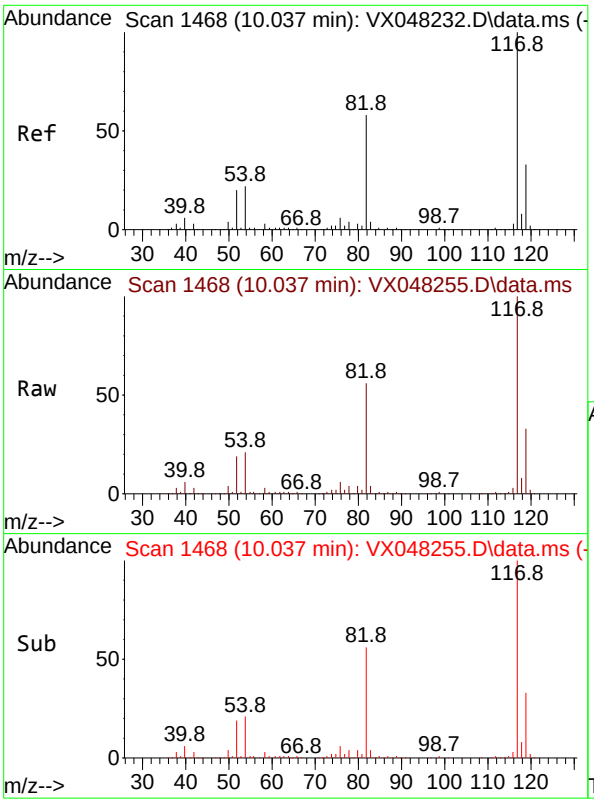


#62
4-Bromofluorobenzene
Concen: 49.702 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 95 Resp: 104113

Ion	Ratio	Lower	Upper
95	100		
174	76.4	0.0	147.8
176	74.0	0.0	142.8



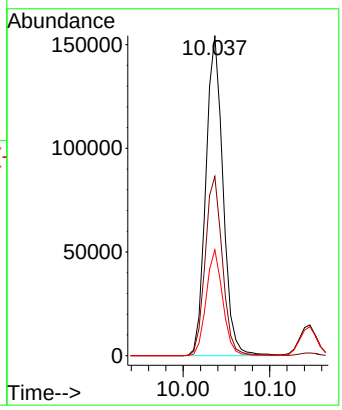


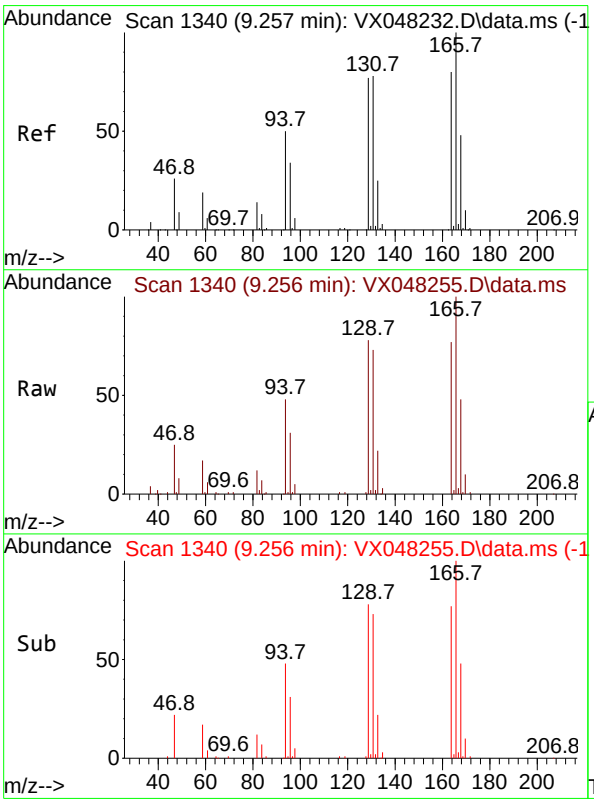
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion:117 Resp: 212342

Ion	Ratio	Lower	Upper
117	100		
82	56.0	46.5	69.7
119	33.1	25.9	38.9

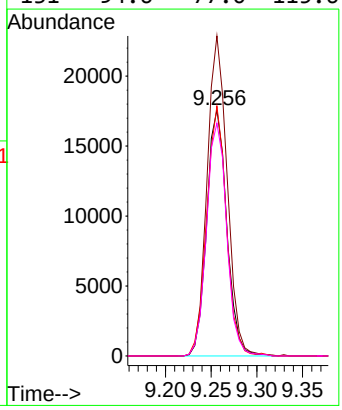


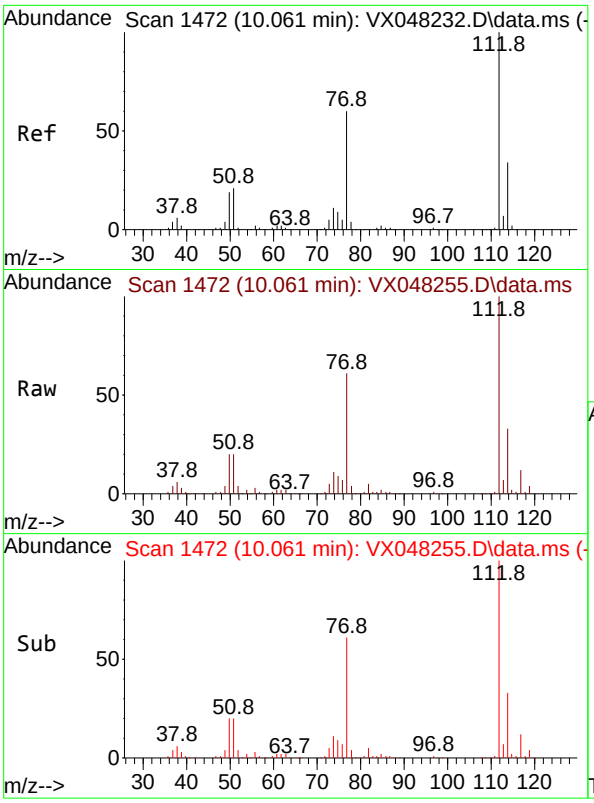


#64
Tetrachloroethene
Concen: 16.909 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:164 Resp: 26804

Ion	Ratio	Lower	Upper
164	100		
166	130.0	104.5	156.7
129	101.5	81.8	122.6
131	94.6	77.0	115.6



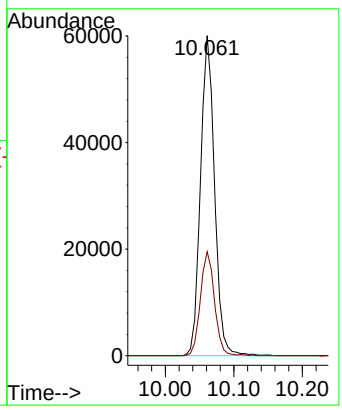


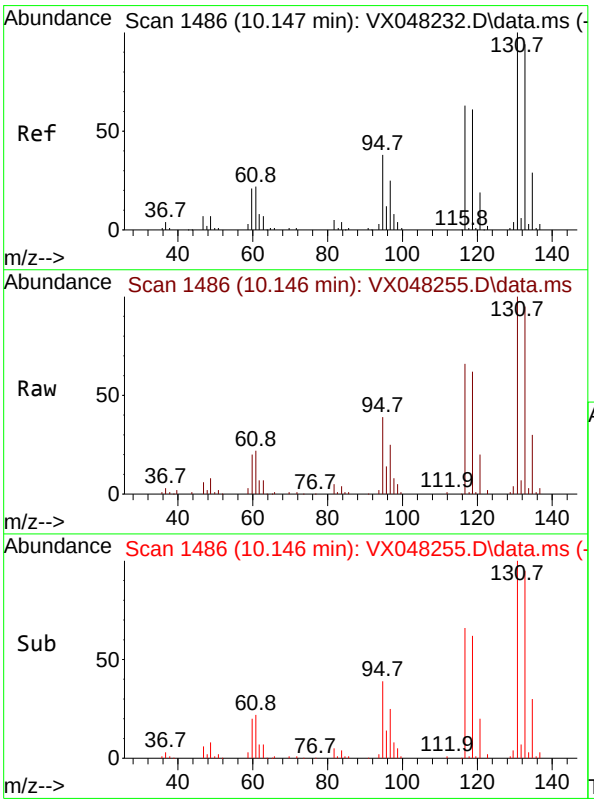
#65
Chlorobenzene
Concen: 17.974 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion:112 Resp: 85855

Ion	Ratio	Lower	Upper
112	100		
114	32.5	26.2	39.2

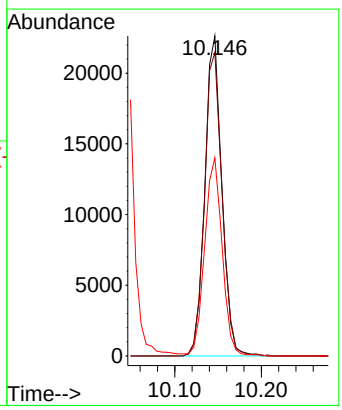


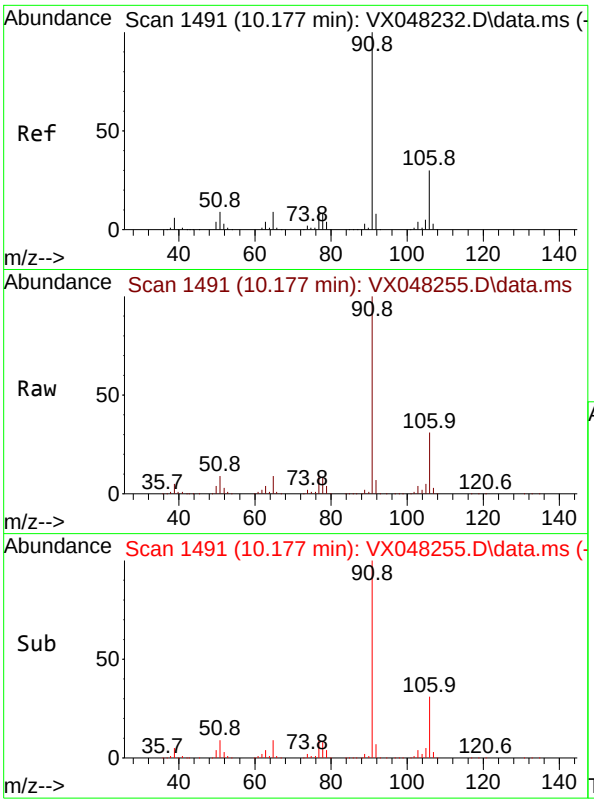


#66
1,1,1,2-Tetrachloroethane
Concen: 17.566 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:131 Resp: 30819

Ion	Ratio	Lower	Upper
131	100		
133	97.7	47.6	142.8
119	63.9	32.5	97.5



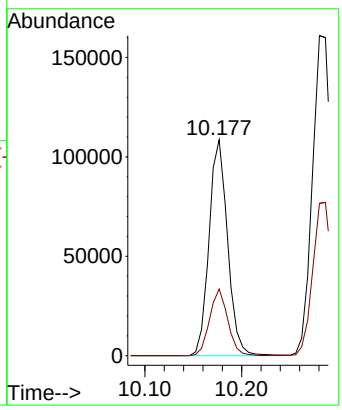


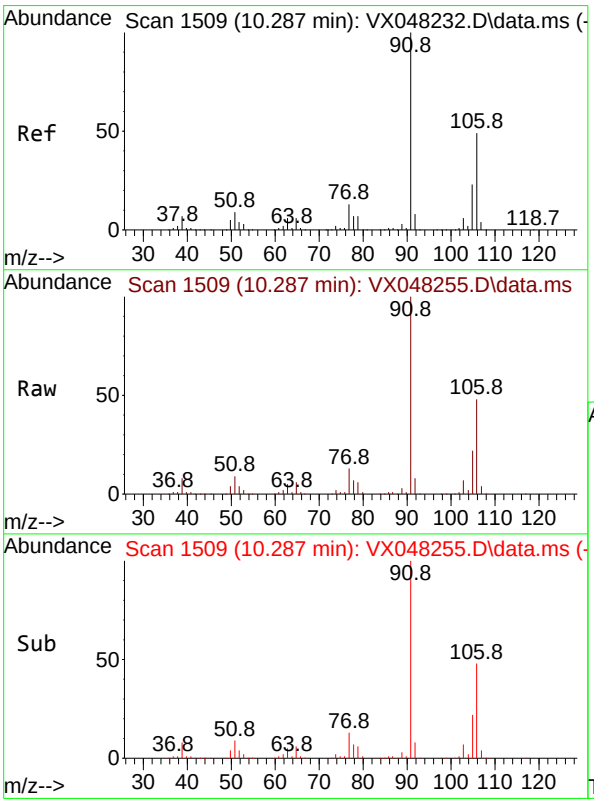
#67
Ethyl Benzene
Concen: 17.824 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 91 Resp: 144956

Ion	Ratio	Lower	Upper
91	100		
106	30.9	23.8	35.6

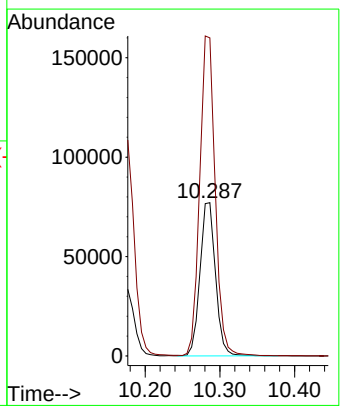


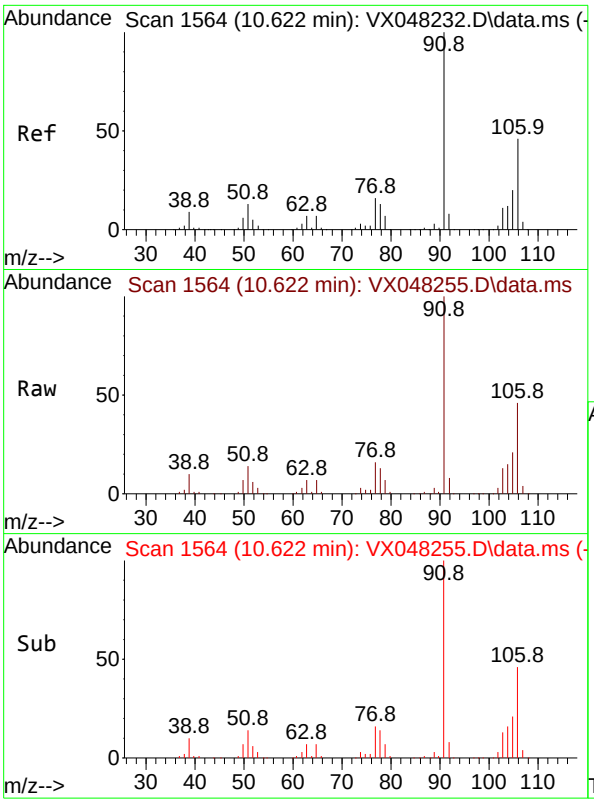


#68
m/p-Xylenes
Concen: 36.763 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:106 Resp: 111086

Ion	Ratio	Lower	Upper
106	100		
91	208.0	167.9	251.9



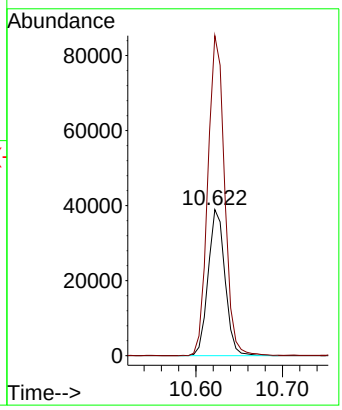


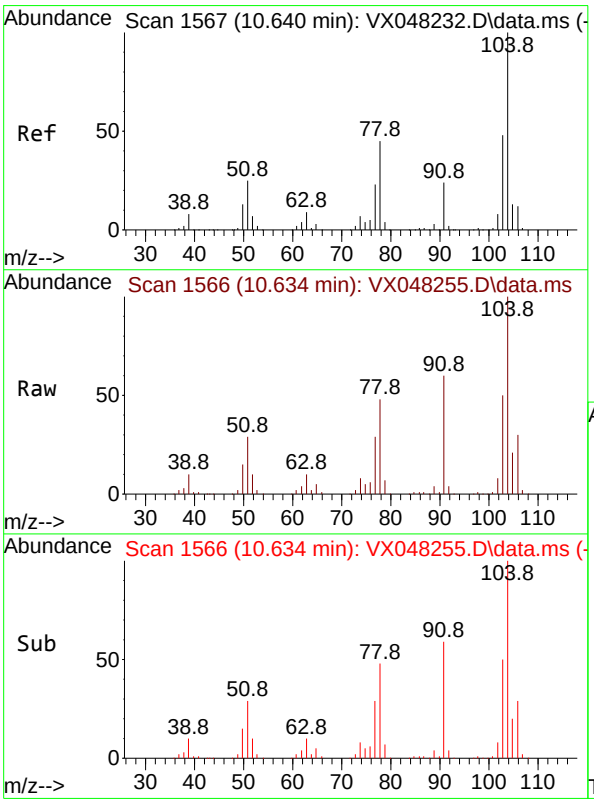
#69
o-Xylene
Concen: 18.060 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion:106 Resp: 52686

Ion	Ratio	Lower	Upper
106	100		
91	217.5	111.3	333.9

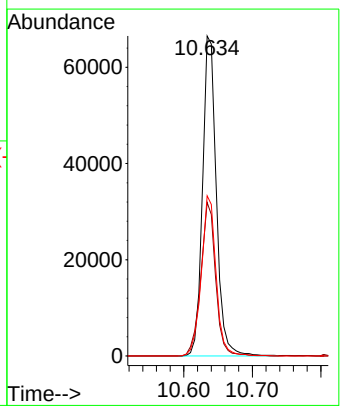


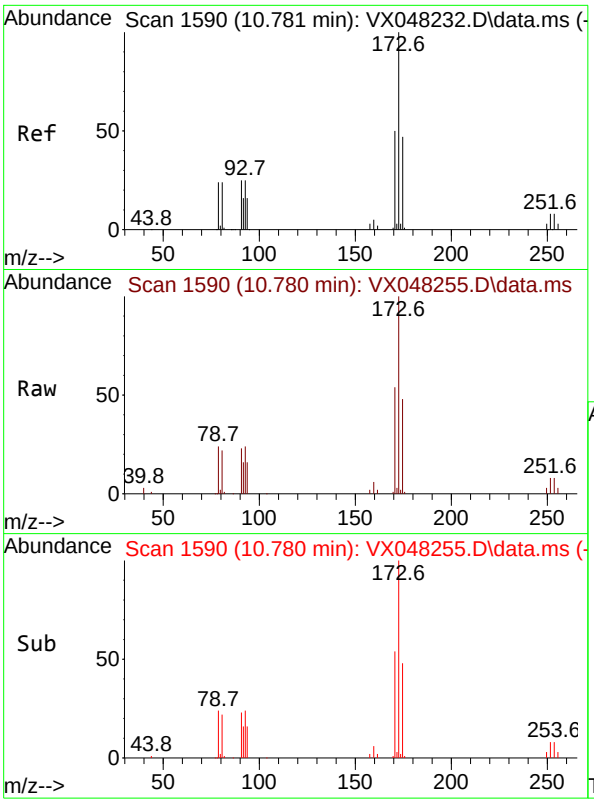


#70
Styrene
Concen: 18.838 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:104 Resp: 93575

Ion	Ratio	Lower	Upper
104	100		
78	51.4	42.2	63.4
103	53.3	43.0	64.4



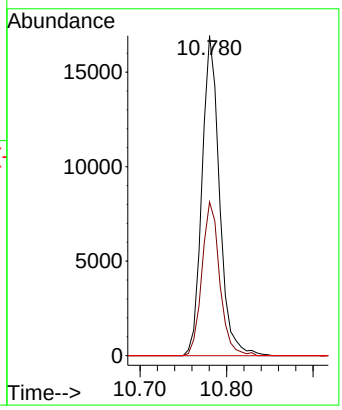


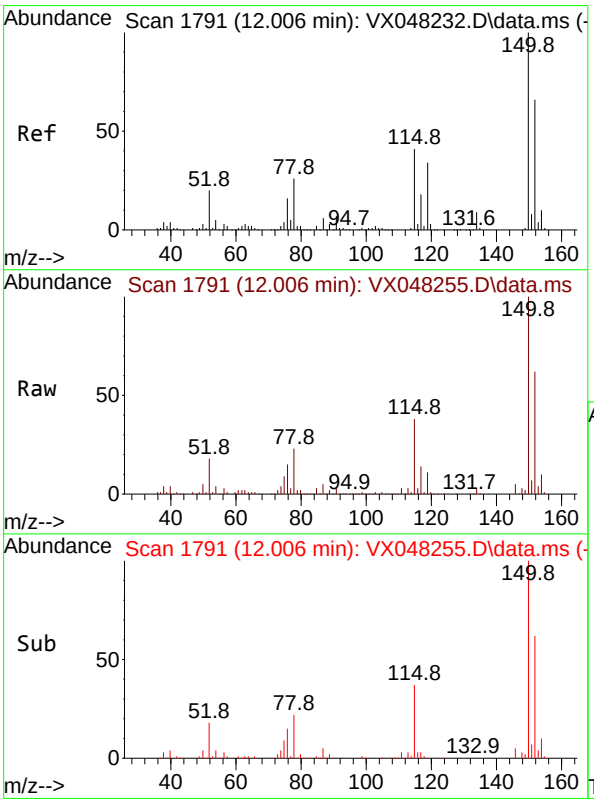
#71
Bromoform
Concen: 16.952 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion:173 Resp: 23770

Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.0	72.0
254	0.0	0.0	0.0

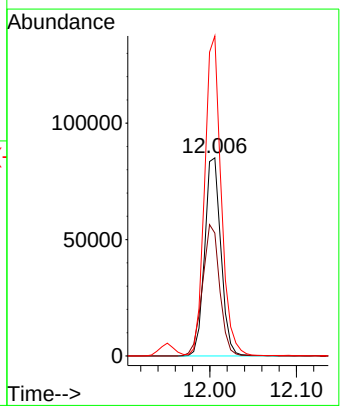


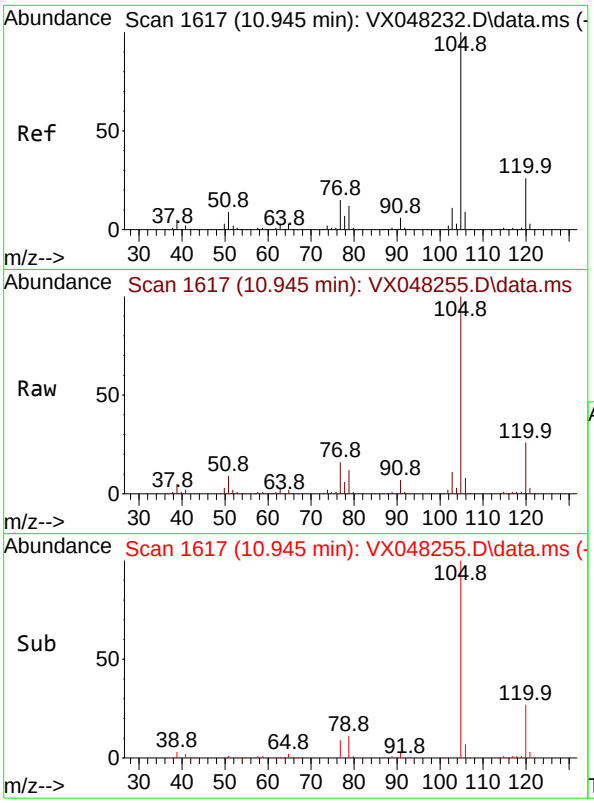


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:152 Resp: 110789

Ion	Ratio	Lower	Upper
152	100		
115	70.2	43.1	129.4
150	163.8	0.0	353.0



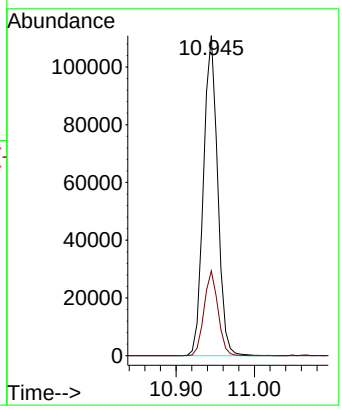


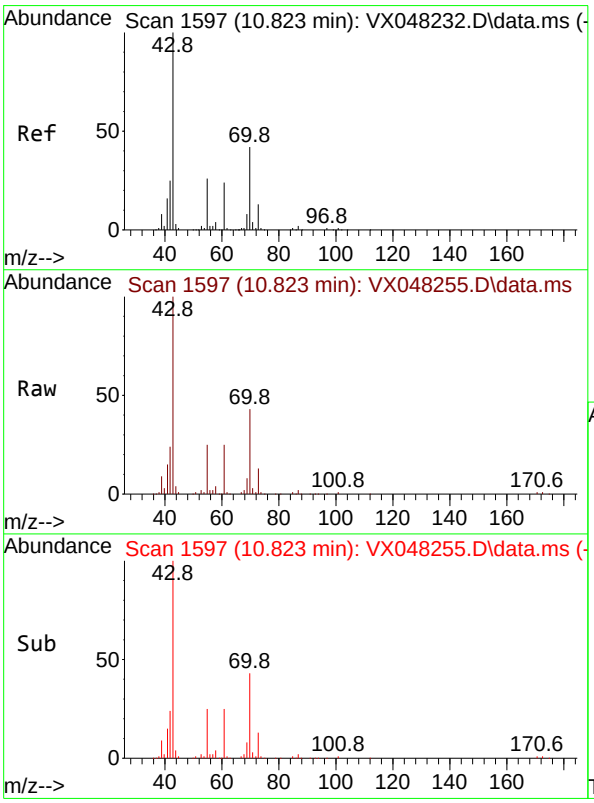
#73
Isopropylbenzene
Concen: 17.144 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion:105 Resp: 138728

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.0	38.9

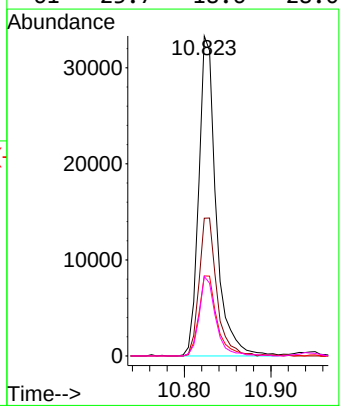


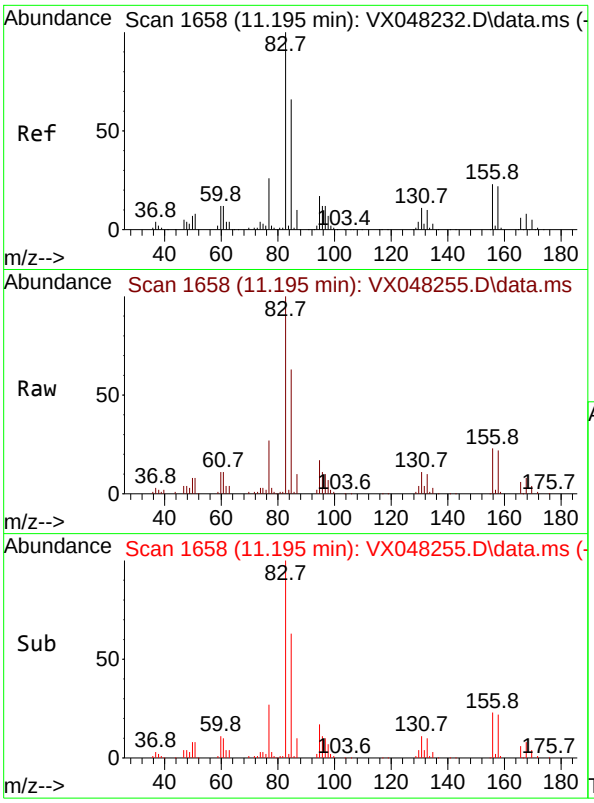


#74
N-amyl acetate
Concen: 16.144 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 43 Resp: 46339

Ion	Ratio	Lower	Upper
43	100		
70	43.9	32.2	48.2
55	26.2	19.1	28.7
61	23.7	18.6	28.0



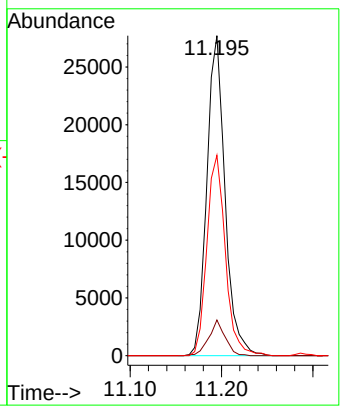


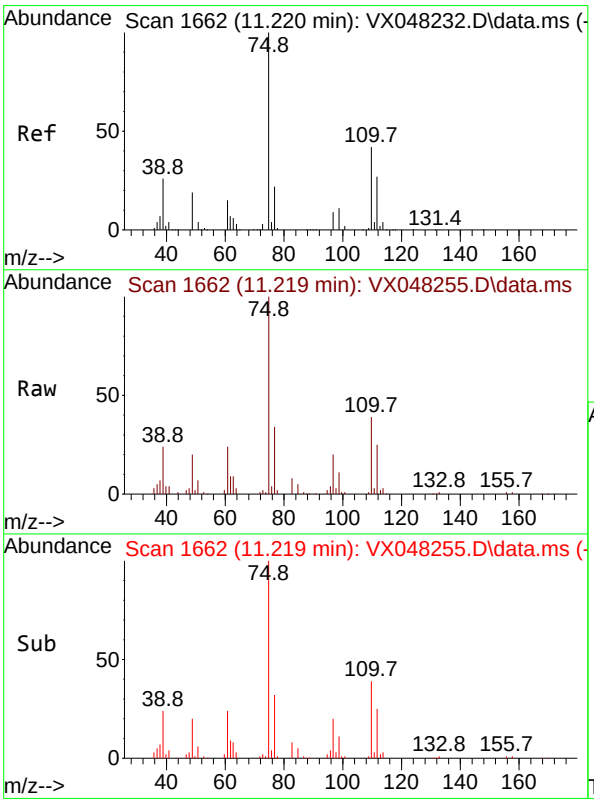
#75
1,1,2,2-Tetrachloroethane
Concen: 17.251 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 83 Resp: 38121

Ion	Ratio	Lower	Upper
83	100		
131	10.1	4.8	14.4
85	63.9	31.9	95.7

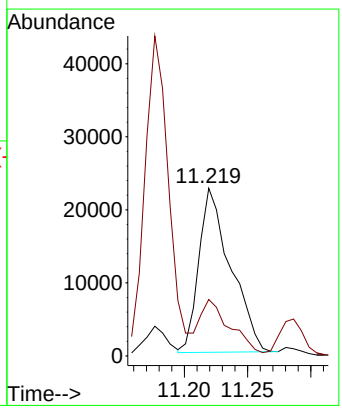


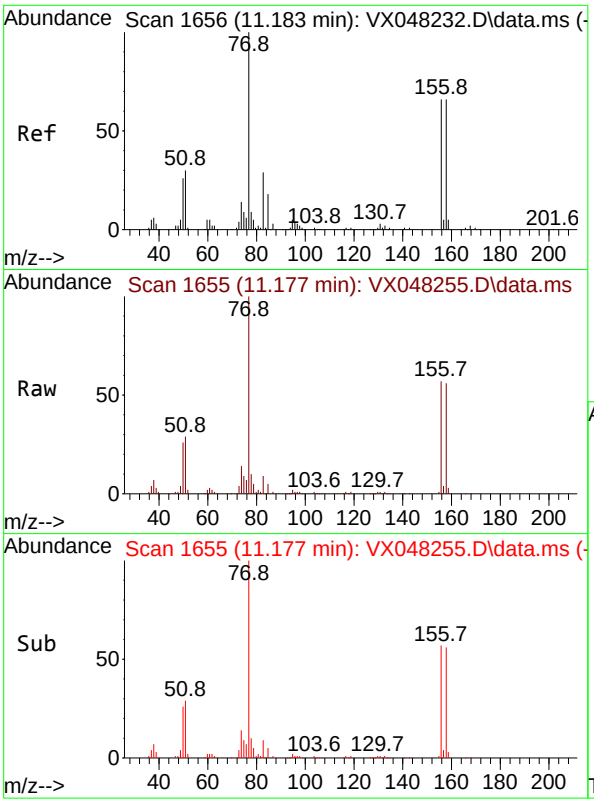


#76
1,2,3-Trichloropropane
Concen: 21.928 ug/l
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 75 Resp: 39397

Ion	Ratio	Lower	Upper
75	100		
77	32.5	22.4	67.2



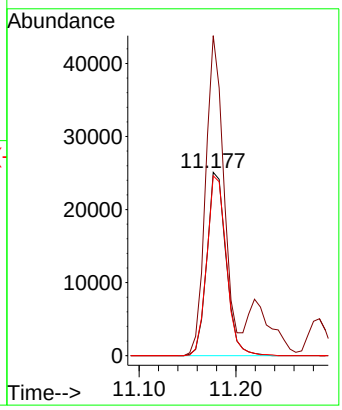


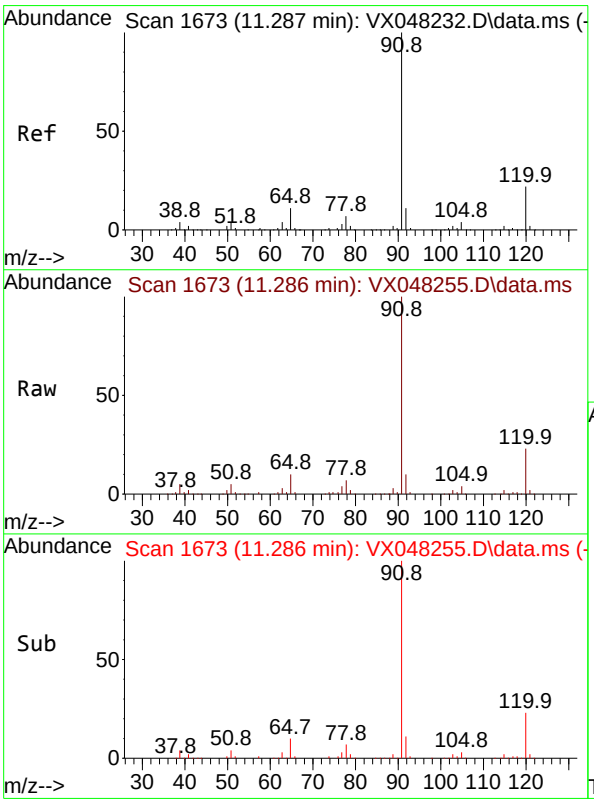
#77
Bromobenzene
Concen: 17.087 ug/l
RT: 11.177 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion:156 Resp: 34669

Ion	Ratio	Lower	Upper
156	100		
77	164.6	87.0	261.0
158	99.9	47.8	143.4

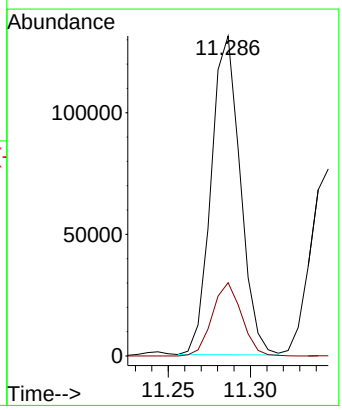


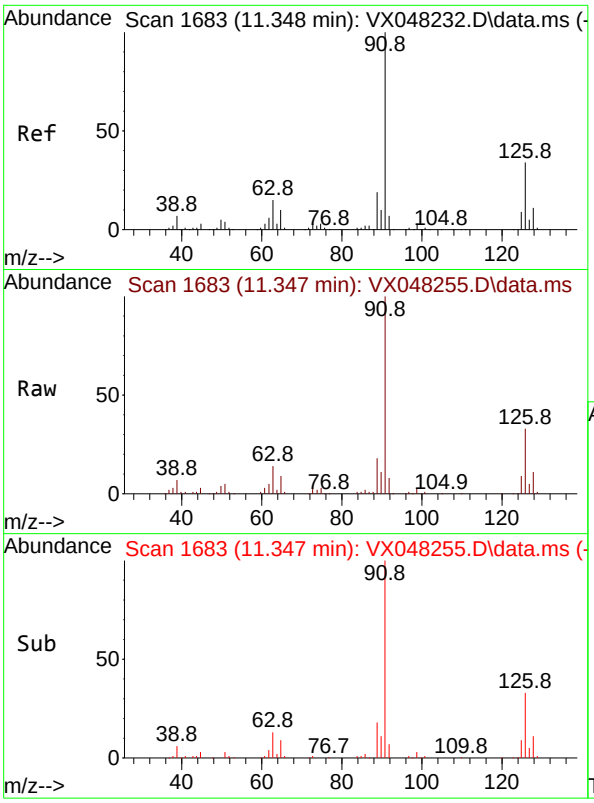


#78
n-propylbenzene
Concen: 17.266 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 91 Resp: 161765

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.1	33.1



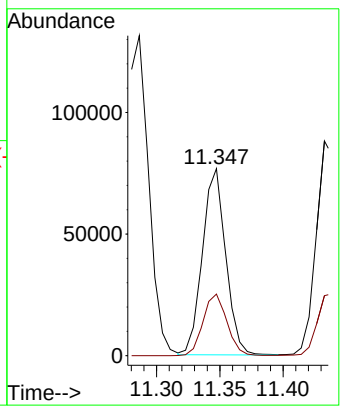


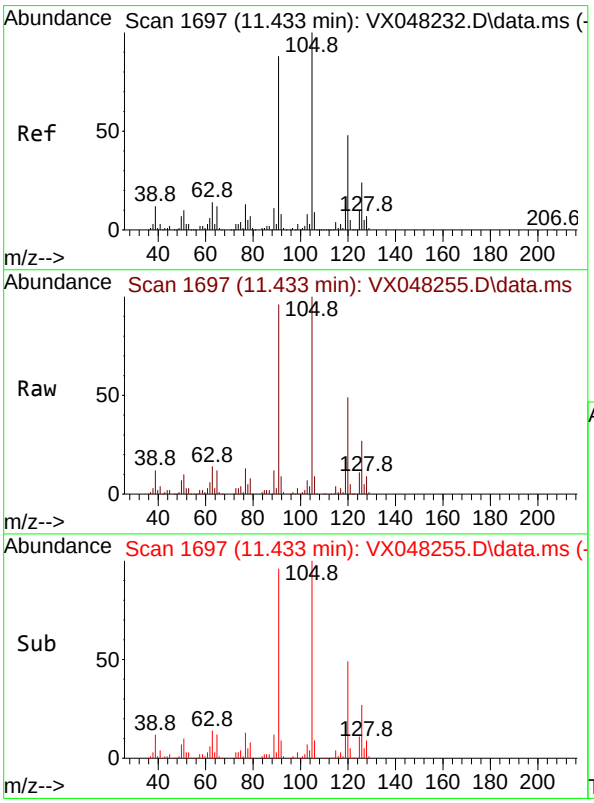
#79
2-Chlorotoluene
Concen: 17.293 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 91 Resp: 98234

Ion	Ratio	Lower	Upper
91	100		
126	34.0	16.4	49.4

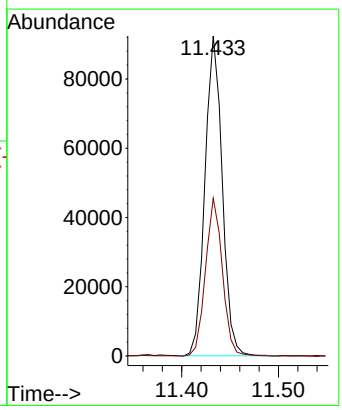


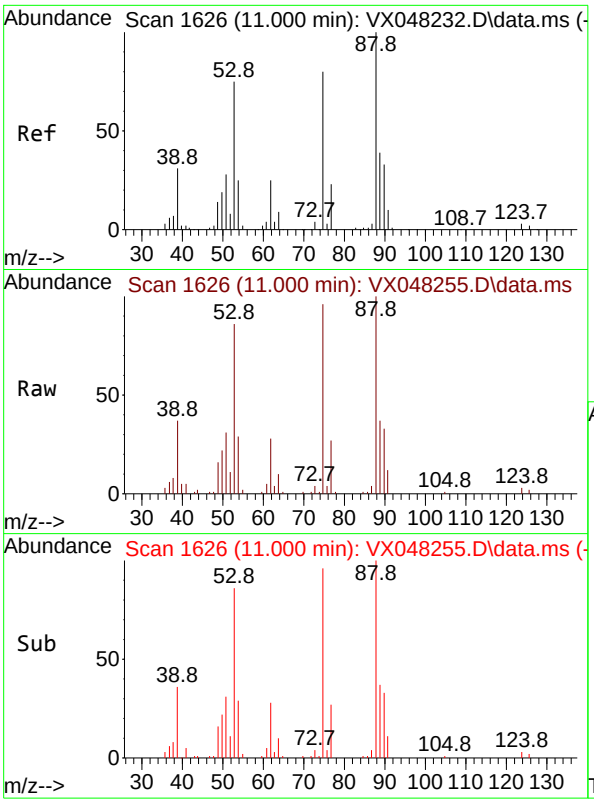


#80
1,3,5-Trimethylbenzene
Concen: 17.137 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:105 Resp: 114762

Ion	Ratio	Lower	Upper
105	100		
120	48.2	24.0	72.0



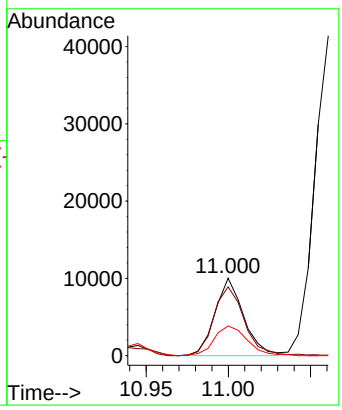


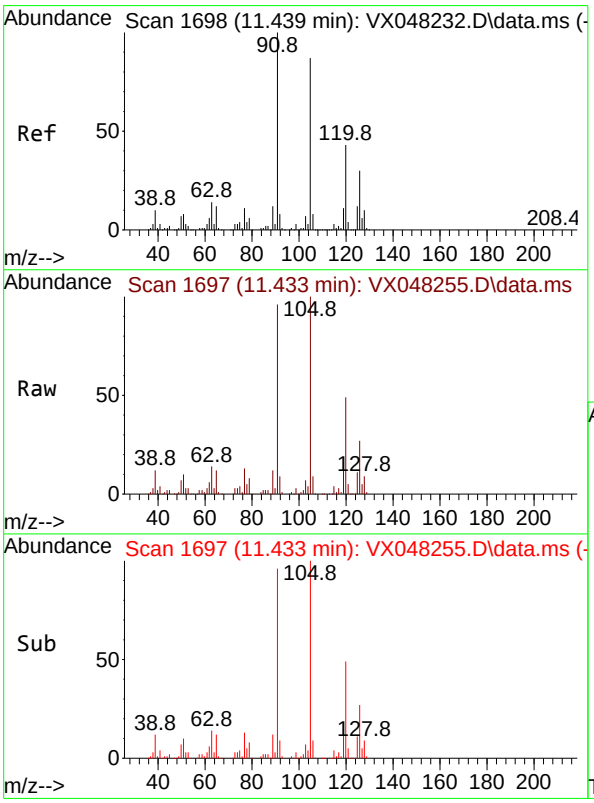
#81
trans-1,4-Dichloro-2-butene
Concen: 16.530 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 75 Resp: 12207

Ion	Ratio	Lower	Upper
75	100		
53	95.6	79.5	119.3
89	43.7	36.8	55.2

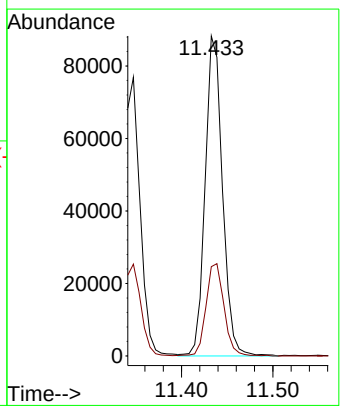


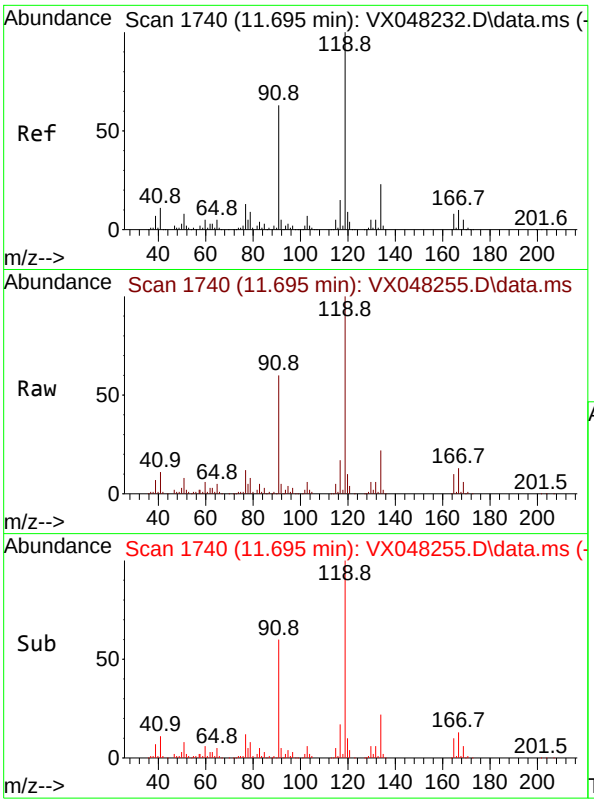


#82
4-Chlorotoluene
Concen: 17.202 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 91 Resp: 115993

Ion	Ratio	Lower	Upper
91	100		
126	30.0	14.1	42.4



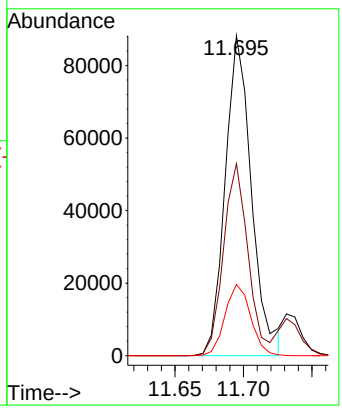


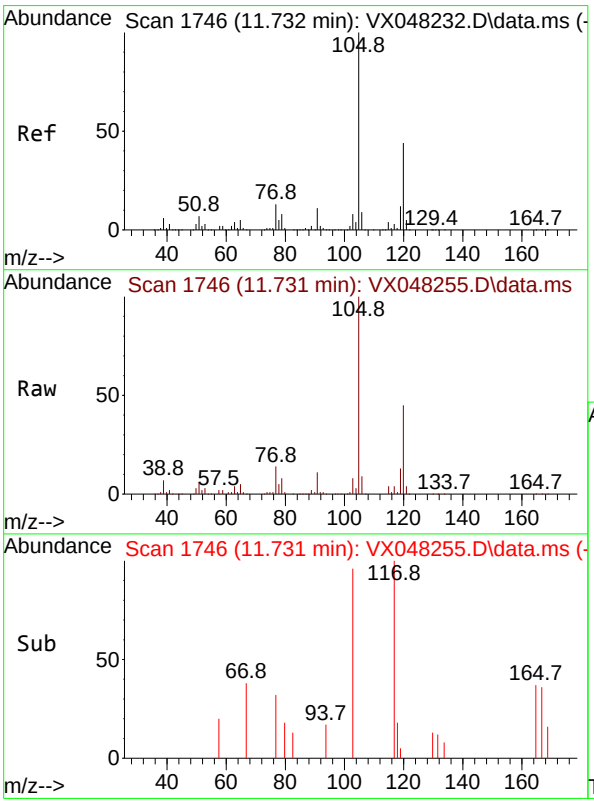
#83
tert-Butylbenzene
Concen: 17.108 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion:119 Resp: 117710

Ion	Ratio	Lower	Upper
119	100		
91	56.3	30.3	91.0
134	21.8	11.4	34.2

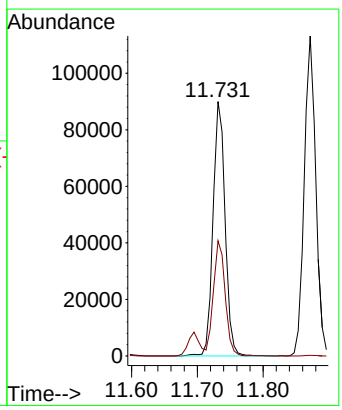


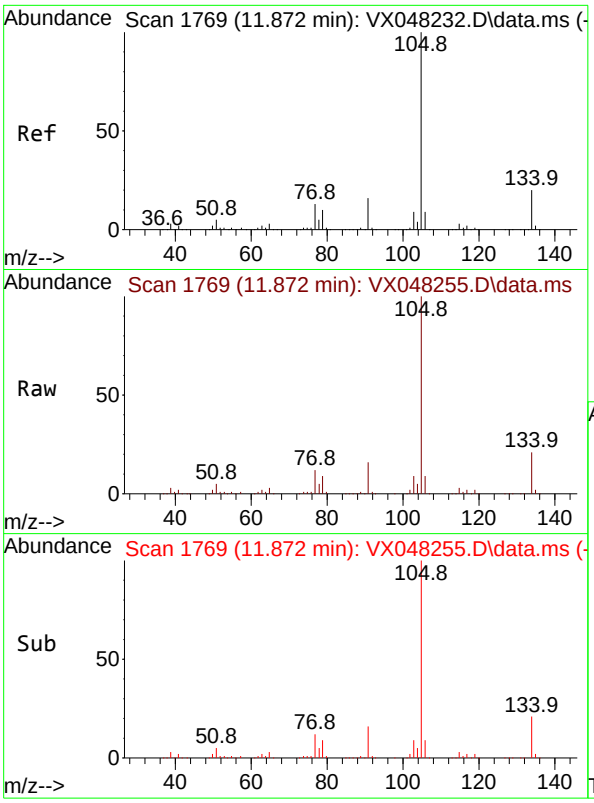


#84
1,2,4-Trimethylbenzene
Concen: 17.197 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:105 Resp: 114927

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.5



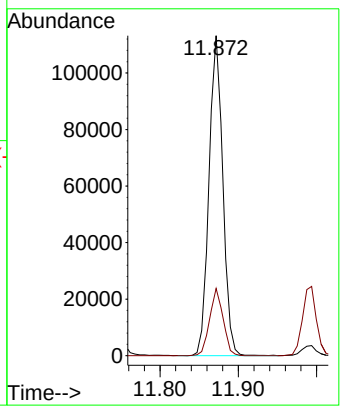


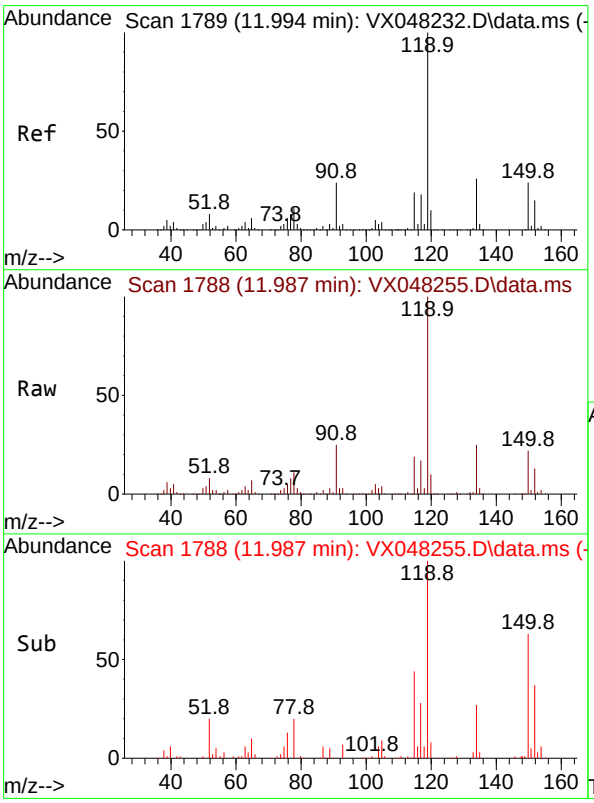
#85
sec-Butylbenzene
Concen: 16.712 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion:105 Resp: 138342

Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.1	30.1

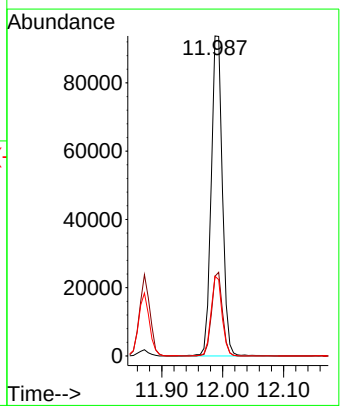


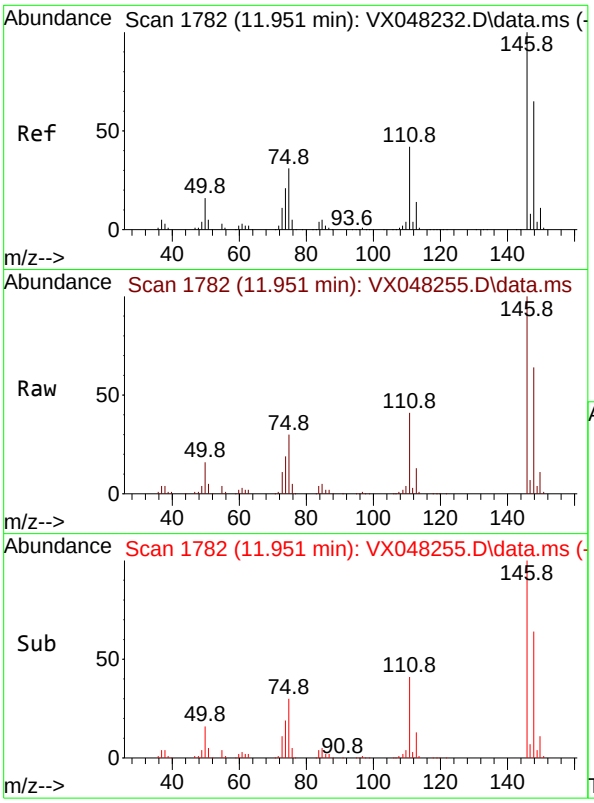


#86
p-Isopropyltoluene
Concen: 16.665 ug/l
RT: 11.987 min Scan# 1788
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:119 Resp: 119237

Ion	Ratio	Lower	Upper
119	100		
134	25.3	13.0	39.0
91	24.6	12.1	36.3



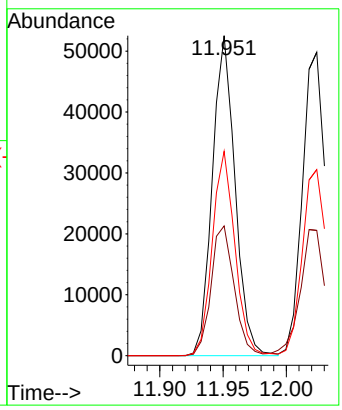


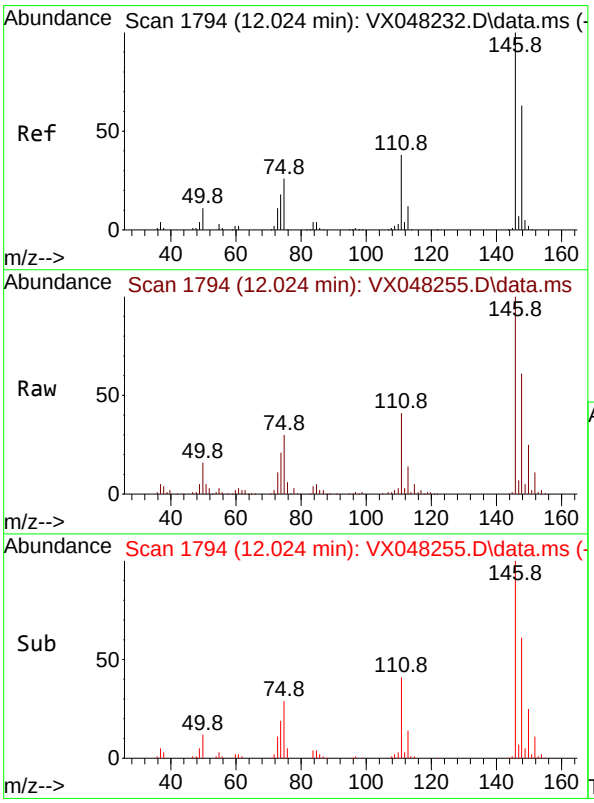
#87
1,3-Dichlorobenzene
Concen: 17.154 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion:146 Resp: 65615

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.4	61.2
148	63.6	31.9	95.9

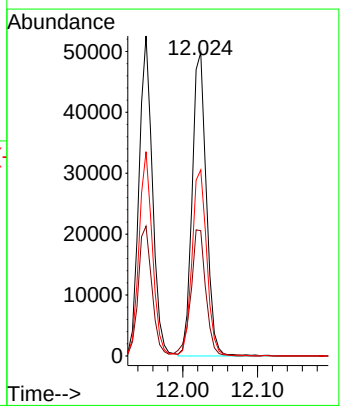


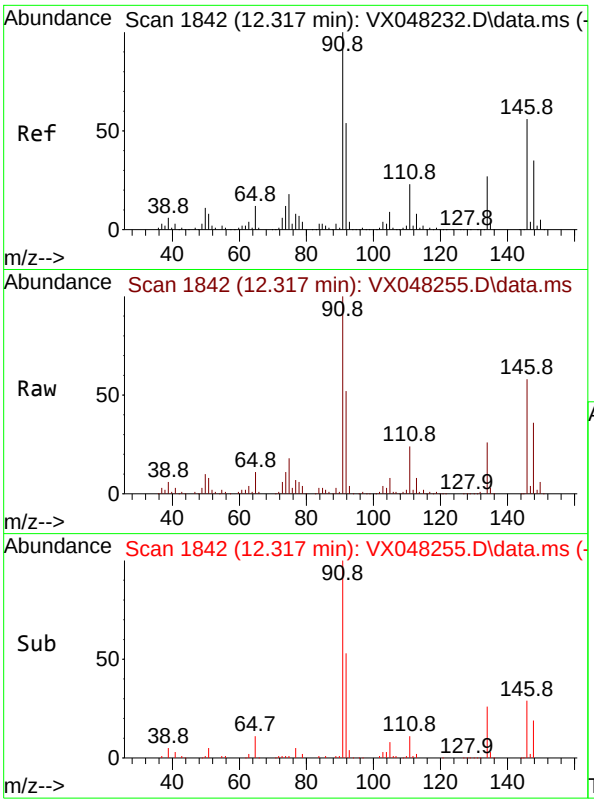


#88
1,4-Dichlorobenzene
Concen: 16.604 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:146 Resp: 65796

Ion	Ratio	Lower	Upper
146	100		
111	43.8	20.1	60.2
148	63.3	31.8	95.3



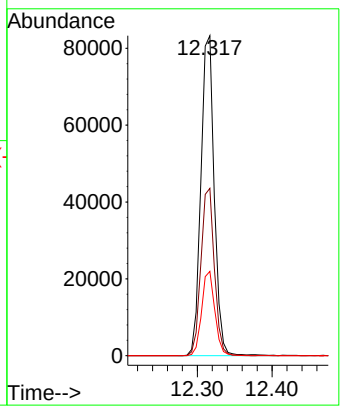


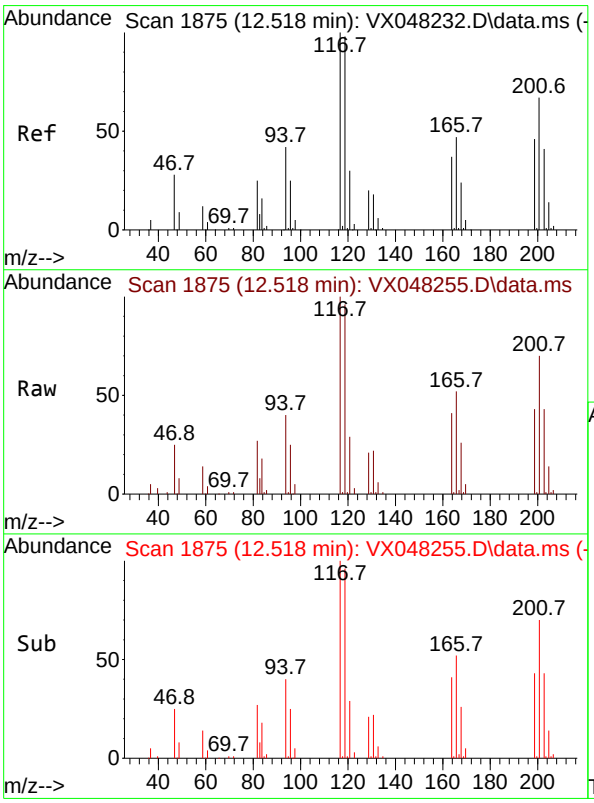
#89
n-Butylbenzene
Concen: 15.875 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion: 91 Resp: 103383

Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.9	80.6
134	26.0	12.7	38.1

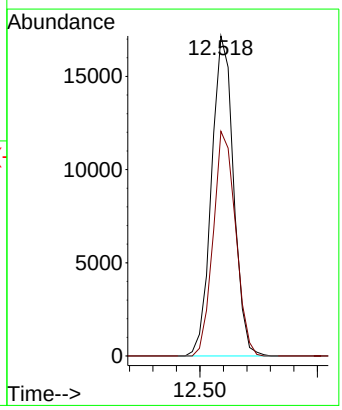


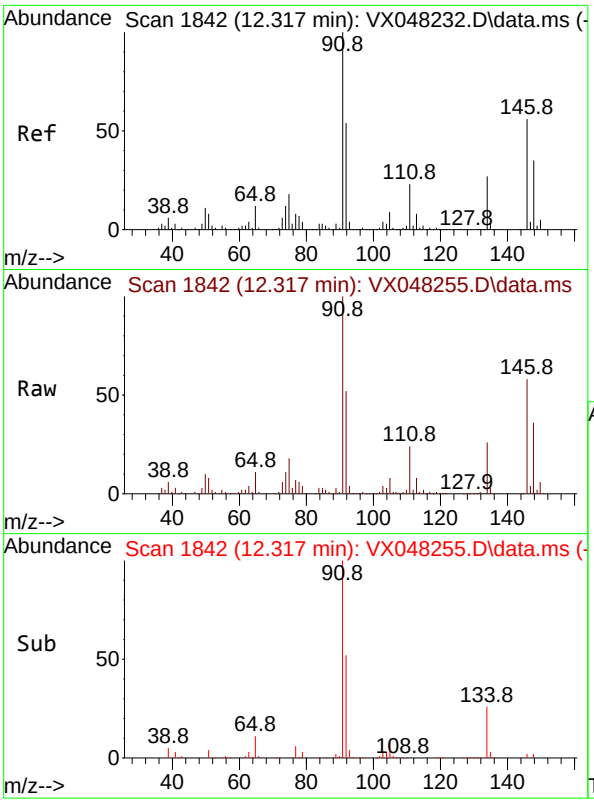


#90
Hexachloroethane
Concen: 15.825 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:117 Resp: 22360

Ion	Ratio	Lower	Upper
117	100		
201	71.4	34.1	102.2



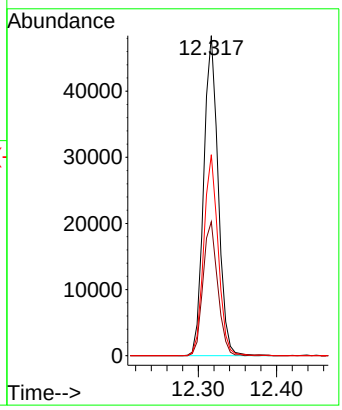


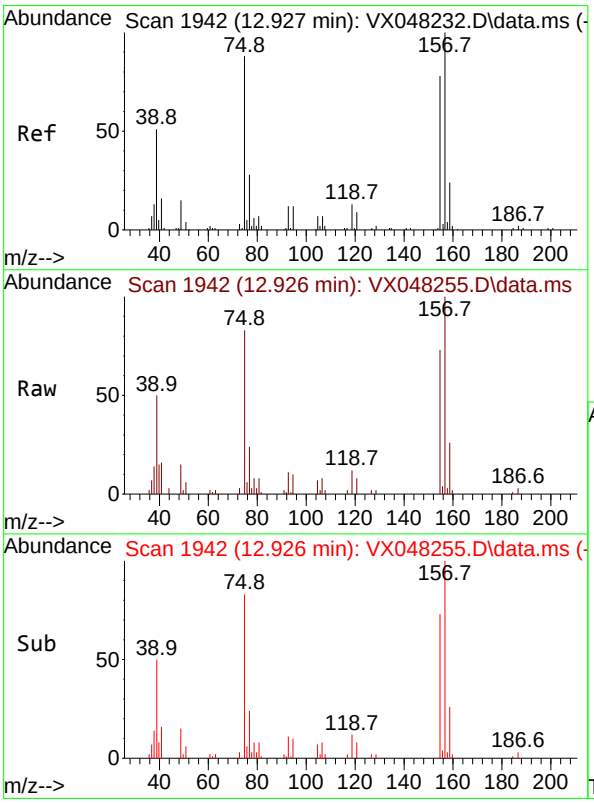
#91
1,2-Dichlorobenzene
Concen: 17.219 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion:146 Resp: 61839

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.9	65.5
148	62.5	31.9	95.5

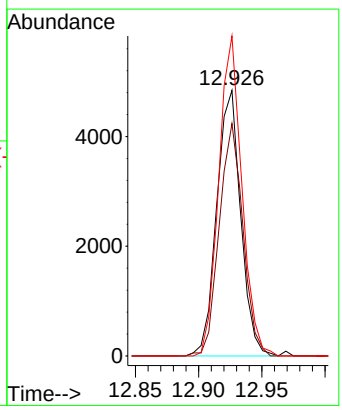


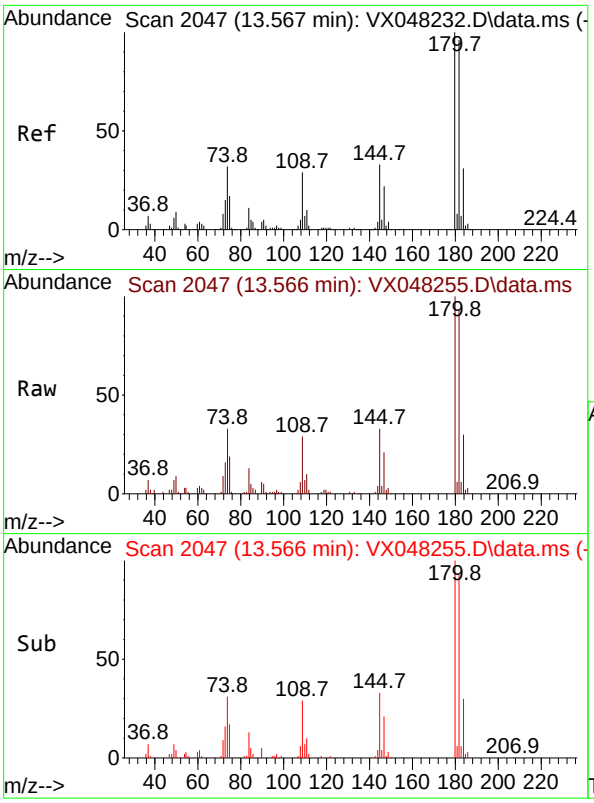


#92
1,2-Dibromo-3-Chloropropane
Concen: 14.205 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion: 75 Resp: 6372

Ion	Ratio	Lower	Upper
75	100		
155	86.2	42.8	128.4
157	116.0	54.2	162.6



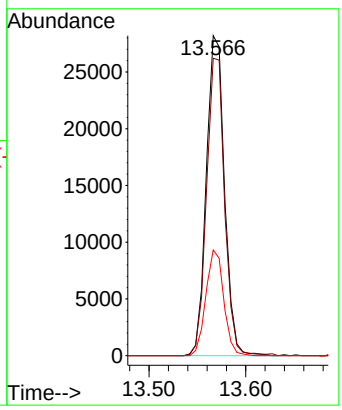


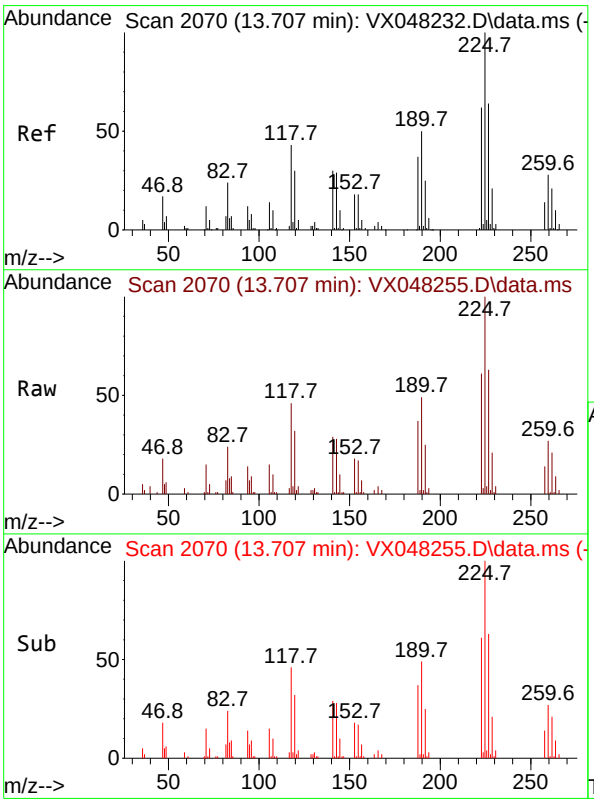
#93
1,2,4-Trichlorobenzene
Concen: 15.216 ug/l
RT: 13.566 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion:180 Resp: 36955

Ion	Ratio	Lower	Upper
180	100		
182	92.6	47.3	142.0
145	32.5	16.3	48.9

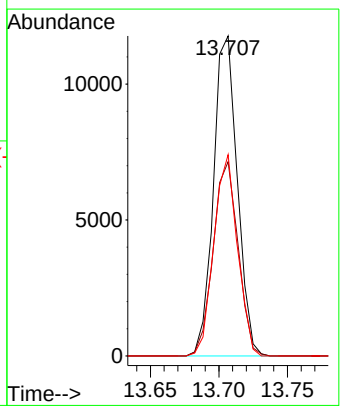


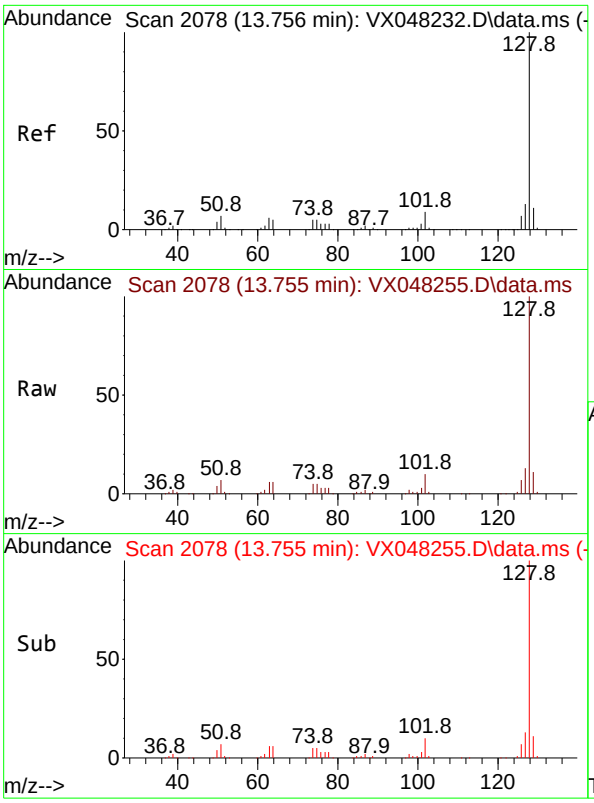


#94
Hexachlorobutadiene
Concen: 15.707 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:225 Resp: 14253

Ion	Ratio	Lower	Upper
225	100		
223	63.3	32.6	97.7
227	62.2	32.5	97.4



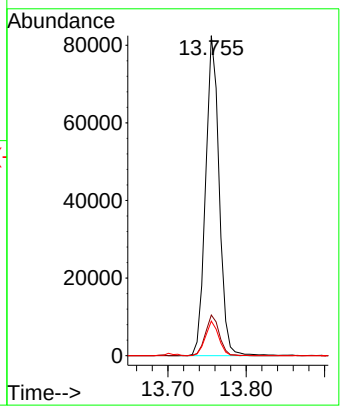


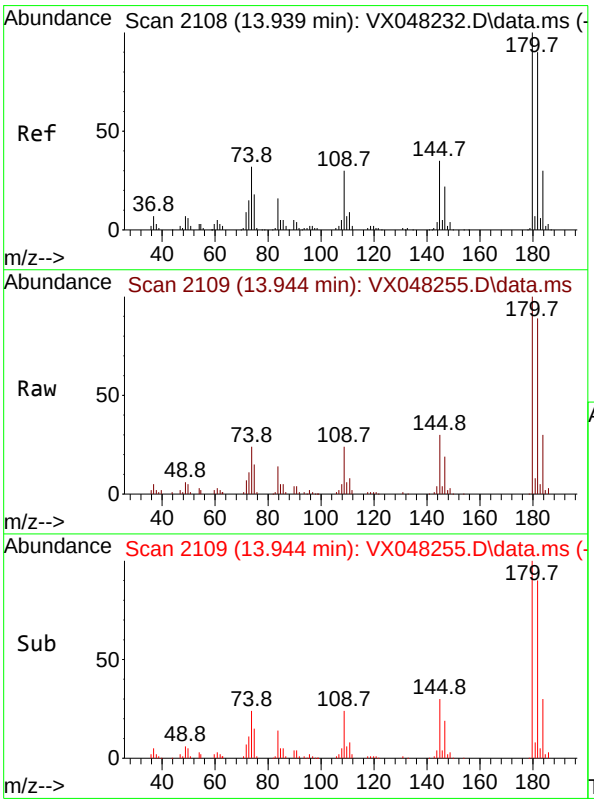
#95
Naphthalene
Concen: 15.345 ug/l
RT: 13.755 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBS01

Tgt Ion:128 Resp: 98736

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.4
129	10.7	8.6	12.8

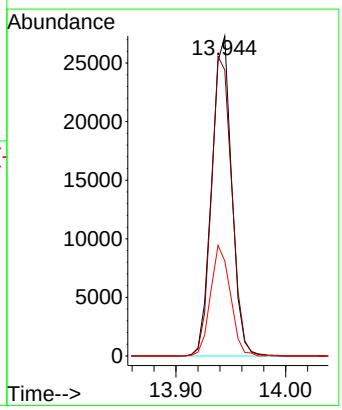




#96
1,2,3-Trichlorobenzene
Concen: 15.454 ug/l
RT: 13.944 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX048255.D
Acq: 21 Oct 2025 10:06

Tgt Ion:180 Resp: 34440

Ion	Ratio	Lower	Upper
180	100		
182	96.2	46.6	139.7
145	34.4	16.9	50.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048278.D
Acq On : 21 Oct 2025 18:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Oct 24 04:30:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	110260	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	183155	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	177679	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	103139	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	86809	56.153	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 112.300%			
35) Dibromofluoromethane	5.373	113	66021	52.800	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.600%			
50) Toluene-d8	8.635	98	226656	51.716	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 103.440%			
62) 4-Bromofluorobenzene	11.061	95	100241	60.121	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 120.240%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	51728	45.636	ug/l	96
3) Chloromethane	1.300	50	43511	41.125	ug/l	100
4) Vinyl Chloride	1.380	62	40381	41.217	ug/l	100
5) Bromomethane	1.617	94	28469	42.818	ug/l	97
6) Chloroethane	1.697	64	25432	44.175	ug/l	92
7) Trichlorofluoromethane	1.898	101	88297	46.992	ug/l	98
8) Diethyl Ether	2.136	74	24255	45.877	ug/l	83
9) 1,1,2-Trichlorotrifluo...	2.337	101	52798	44.374	ug/l	95
10) Methyl Iodide	2.459	142	76908	51.416	ug/l	98
11) Tert butyl alcohol	2.940	59	31351	204.253	ug/l	98
12) 1,1-Dichloroethene	2.325	96	53980	46.632	ug/l	96
13) Acrolein	2.239	56	42126	269.101	ug/l	100
14) Allyl chloride	2.666	41	86002	44.749	ug/l	93
15) Acrylonitrile	3.056	53	127802	230.910	ug/l	100
16) Acetone	2.373	43	101775	191.905	ug/l	97
17) Carbon Disulfide	2.514	76	151626	41.561	ug/l	99
18) Methyl Acetate	2.703	43	49775	44.941	ug/l	91
19) Methyl tert-butyl Ether	3.111	73	192863	48.837	ug/l	96
20) Methylene Chloride	2.788	84	62187	48.124	ug/l	90
21) trans-1,2-Dichloroethene	3.093	96	59217	46.571	ug/l	100
22) Diisopropyl ether	3.751	45	183332	47.827	ug/l #	88
23) Vinyl Acetate	3.715	43	742546	242.501	ug/l	96
24) 1,1-Dichloroethane	3.611	63	108877	46.973	ug/l	99
25) 2-Butanone	4.538	43	144575	215.374	ug/l	96
26) 2,2-Dichloropropane	4.465	77	93655	44.766	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	71911	48.458	ug/l	97
28) Bromochloromethane	4.891	49	45824	47.680	ug/l #	81
29) Tetrahydrofuran	4.989	42	87839	218.490	ug/l	89
30) Chloroform	5.086	83	121680	49.137	ug/l	98
31) Cyclohexane	5.464	56	84891	44.238	ug/l #	86
32) 1,1,1-Trichloroethane	5.373	97	111254	48.747	ug/l	98
36) 1,1-Dichloropropene	5.678	75	80634	45.371	ug/l	98
37) Ethyl Acetate	4.702	43	63123	42.851	ug/l	97
38) Carbon Tetrachloride	5.666	117	100140	45.671	ug/l	99
39) Methylcyclohexane	7.366	83	89560	42.670	ug/l	96
40) Benzene	6.025	78	235395	45.621	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048278.D
Acq On : 21 Oct 2025 18:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Oct 24 04:30:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.903	41	35543	45.945	ug/l		96
42) 1,2-Dichloroethane	6.074	62	95021	49.906	ug/l		100
43) Isopropyl Acetate	6.324	43	109791	45.374	ug/l		96
44) Trichloroethene	7.110	130	63675	46.735	ug/l		93
45) 1,2-Dichloropropane	7.415	63	57013	46.474	ug/l		95
46) Dibromomethane	7.568	93	45069	47.155	ug/l		93
47) Bromodichloromethane	7.805	83	99888	48.404	ug/l		96
48) Methyl methacrylate	7.677	41	56463	46.243	ug/l		94
49) 1,4-Dioxane	7.647	88	14536	901.119	ug/l		89
51) 4-Methyl-2-Pentanone	8.555	43	317029	227.242	ug/l		94
52) Toluene	8.702	92	157443	48.031	ug/l		97
53) t-1,3-Dichloropropene	8.964	75	98842	49.703	ug/l		99
54) cis-1,3-Dichloropropene	8.354	75	102835	47.929	ug/l		93
55) 1,1,2-Trichloroethane	9.134	97	59379	48.711	ug/l		96
56) Ethyl methacrylate	9.104	69	87411	49.025	ug/l		95
57) 1,3-Dichloropropane	9.293	76	102643	49.295	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.226	63	230656	240.651	ug/l		94
59) 2-Hexanone	9.415	43	223051	229.287	ug/l		95
60) Dibromochloromethane	9.506	129	80763	49.293	ug/l		99
61) 1,2-Dibromoethane	9.592	107	63070	48.532	ug/l		98
64) Tetrachloroethene	9.256	164	56206	42.374	ug/l		98
65) Chlorobenzene	10.061	112	182408	45.637	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.146	131	67128	45.726	ug/l		98
67) Ethyl Benzene	10.177	91	308525	45.338	ug/l		98
68) m/p-Xylenes	10.287	106	235258	93.046	ug/l		100
69) o-Xylene	10.628	106	114670	46.976	ug/l		99
70) Styrene	10.640	104	200106	48.144	ug/l		99
71) Bromoform	10.780	173	53984	46.009	ug/l	#	100
73) Isopropylbenzene	10.945	105	311296	41.323	ug/l		99
74) N-amyl acetate	10.823	43	107536	40.243	ug/l		95
75) 1,1,2,2-Tetrachloroethane	11.195	83	86911	42.247	ug/l		99
76) 1,2,3-Trichloropropane	11.219	75	97142	58.080	ug/l		79
77) Bromobenzene	11.183	156	80549	42.643	ug/l		94
78) n-propylbenzene	11.286	91	365847	41.944	ug/l		98
79) 2-Chlorotoluene	11.347	91	220518	41.700	ug/l		97
80) 1,3,5-Trimethylbenzene	11.433	105	264110	42.365	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	27633	40.195	ug/l		99
82) 4-Chlorotoluene	11.433	91	265279	42.258	ug/l		98
83) tert-Butylbenzene	11.695	119	269712	42.107	ug/l		96
84) 1,2,4-Trimethylbenzene	11.732	105	264898	42.577	ug/l		100
85) sec-Butylbenzene	11.872	105	314902	40.863	ug/l		99
86) p-Isopropyltoluene	11.988	119	272639	40.931	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	145669	40.908	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	148555	40.270	ug/l		100
89) n-Butylbenzene	12.311	91	236982	39.088	ug/l		99
90) Hexachloroethane	12.518	117	50186	38.153	ug/l		92
91) 1,2-Dichlorobenzene	12.317	146	140638	42.066	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	17092	40.930	ug/l		100
93) 1,2,4-Trichlorobenzene	13.567	180	87024	38.490	ug/l		99
94) Hexachlorobutadiene	13.707	225	32660	38.565	ug/l		97
95) Naphthalene	13.756	128	250514	41.822	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	83499	40.246	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048278.D
Acq On : 21 Oct 2025 18:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Oct 24 04:30:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

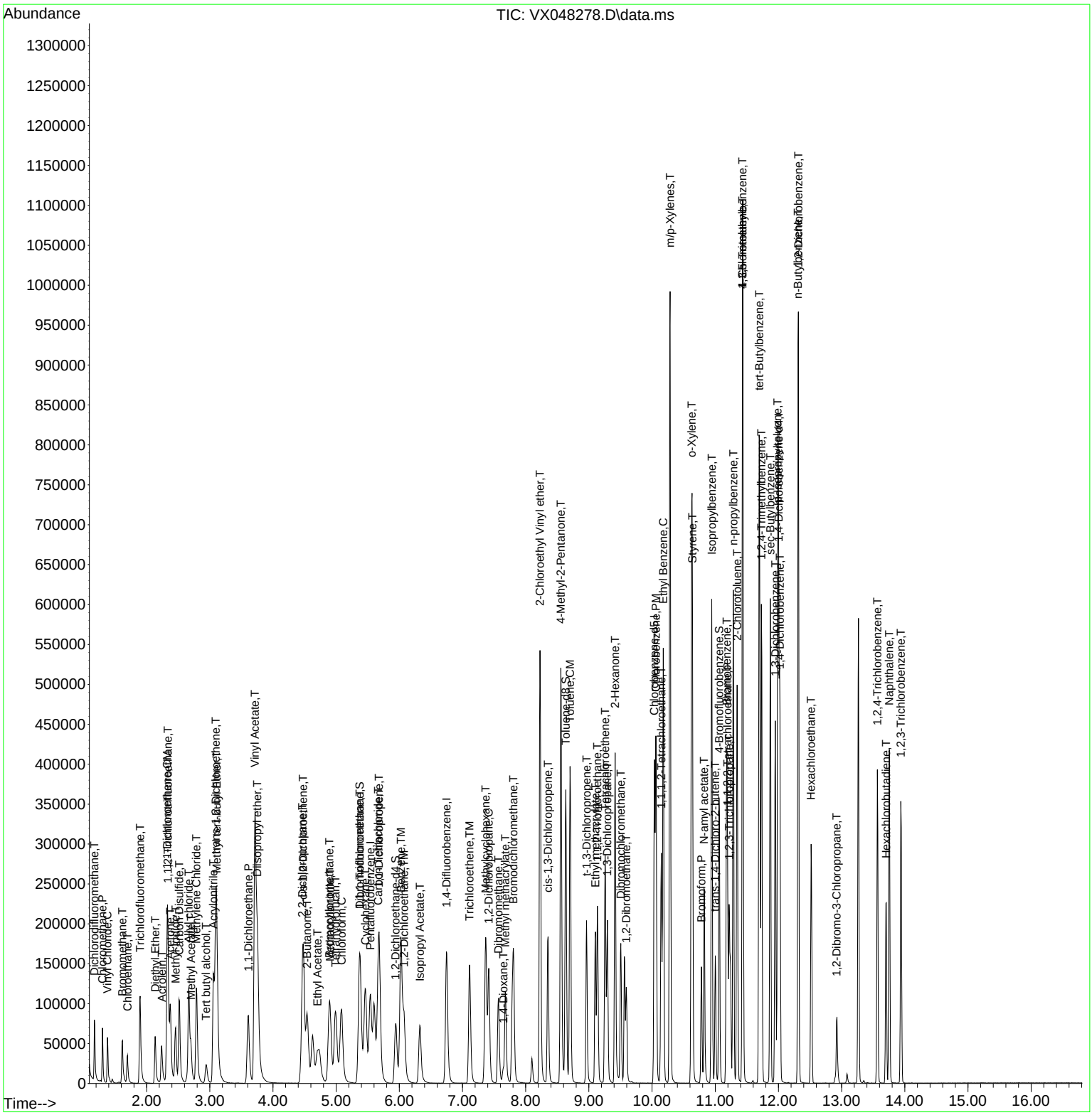
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

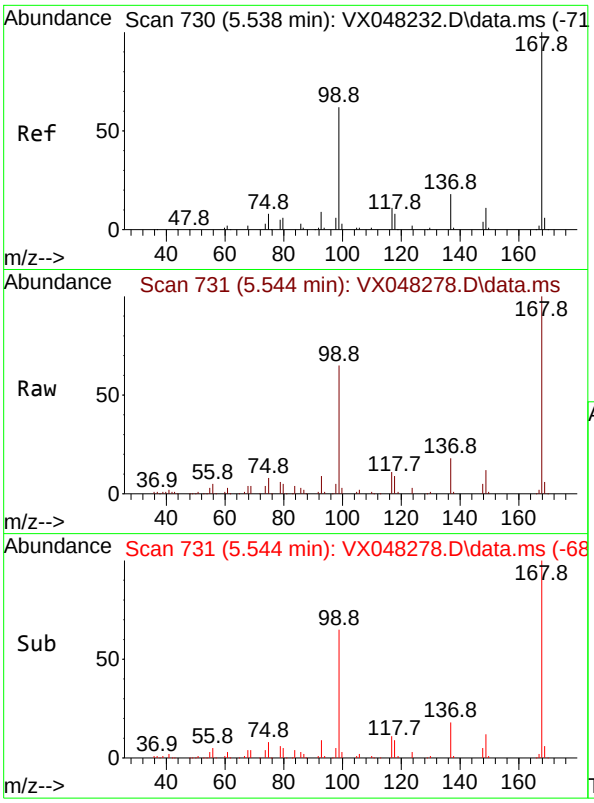
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
Data File : VX048278.D
Acq On : 21 Oct 2025 18:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Oct 24 04:30:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration



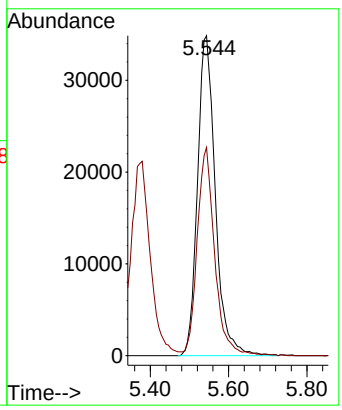


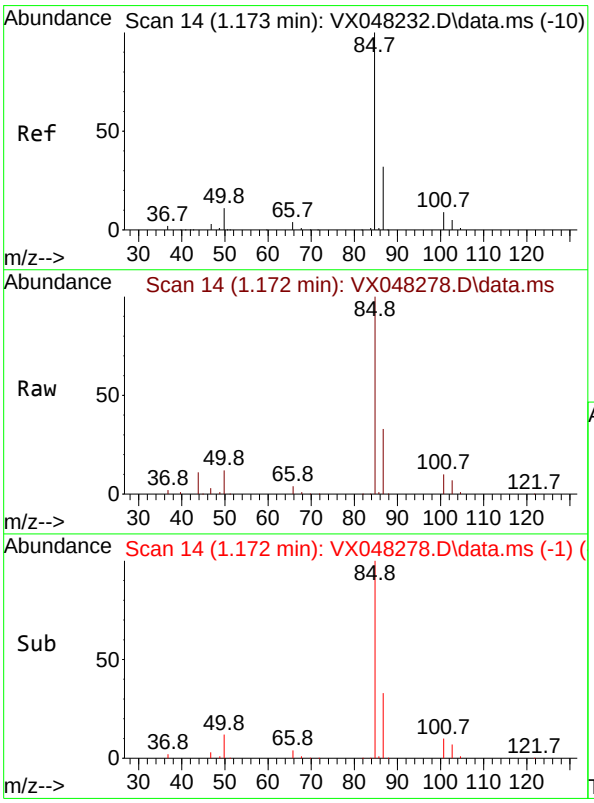
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 110260

Ion	Ratio	Lower	Upper
168	100		
99	65.1	46.4	69.6

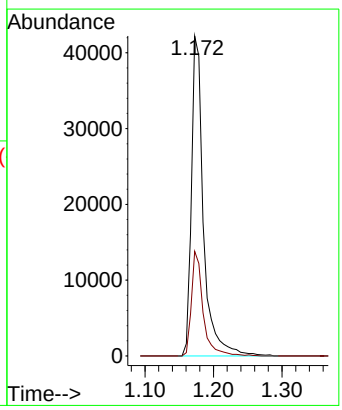


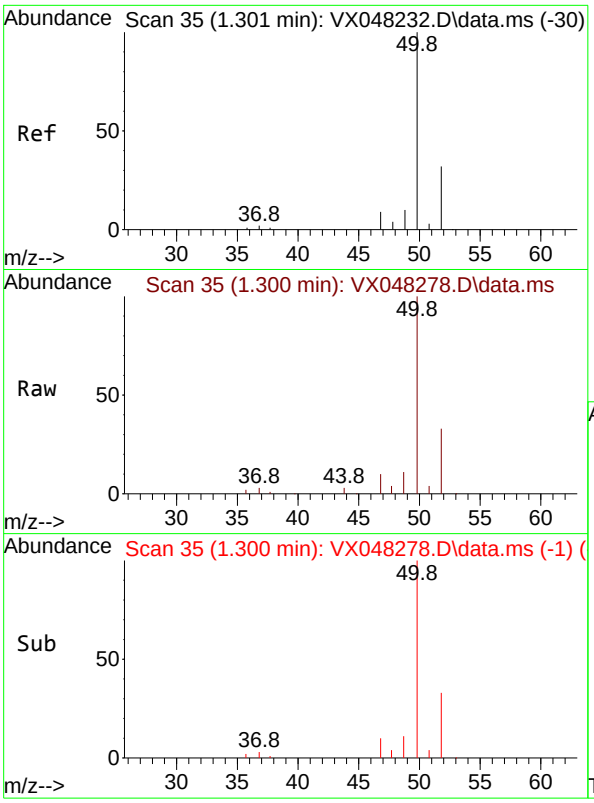


#2
Dichlorodifluoromethane
Concen: 45.636 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 85 Resp: 51728

Ion	Ratio	Lower	Upper
85	100		
87	32.7	15.3	45.9



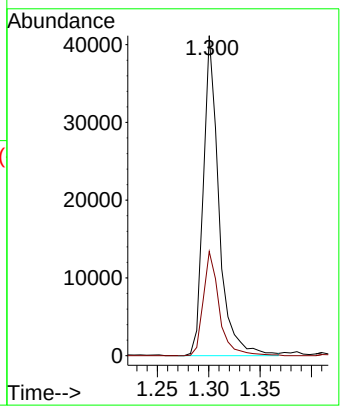


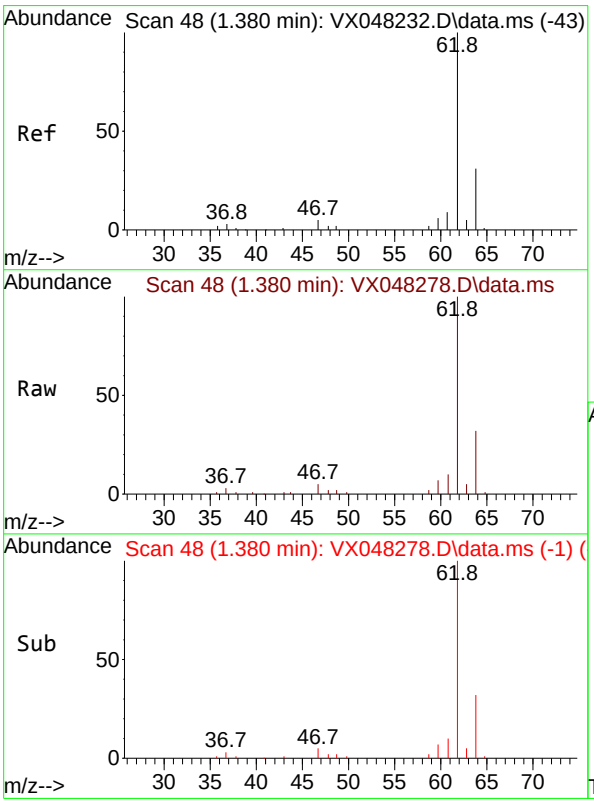
#3
Chloromethane
Concen: 41.125 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 43511

Ion	Ratio	Lower	Upper
50	100		
52	32.5	25.9	38.9

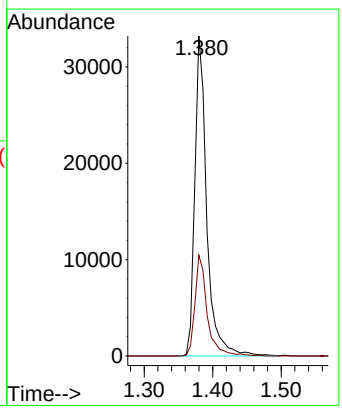


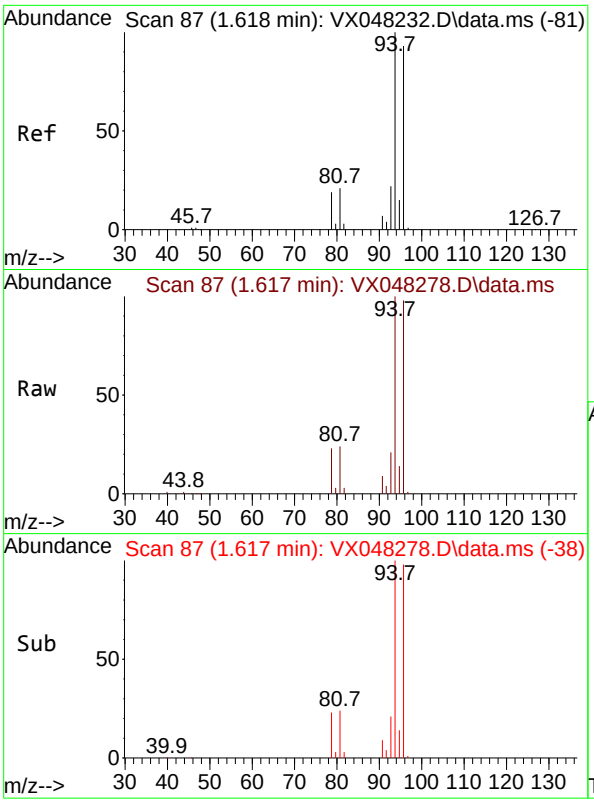


#4
Vinyl Chloride
Concen: 41.217 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 62 Resp: 40381

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.1	37.7



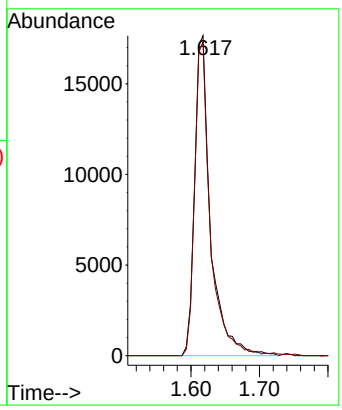


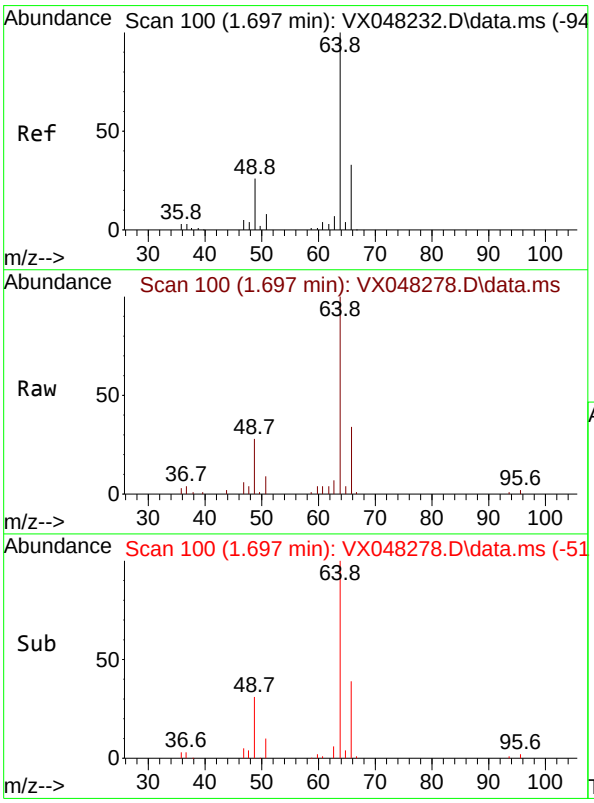
#5
Bromomethane
Concen: 42.818 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 28469

Ion	Ratio	Lower	Upper
94	100		
96	98.1	76.0	114.0

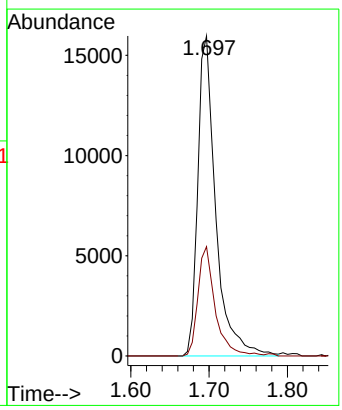


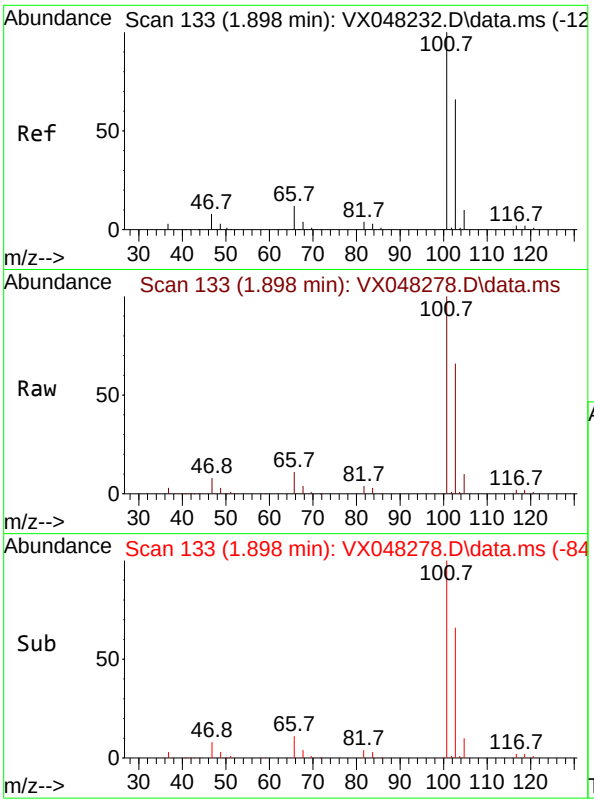


#6
Chloroethane
Concen: 44.175 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 64 Resp: 25432

Ion	Ratio	Lower	Upper
64	100		
66	34.2	23.9	35.9



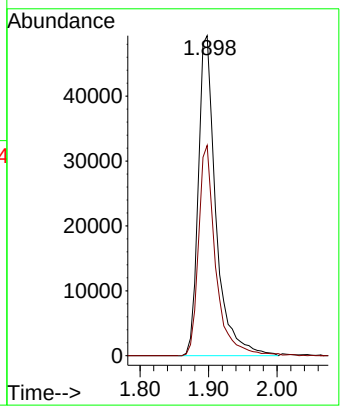


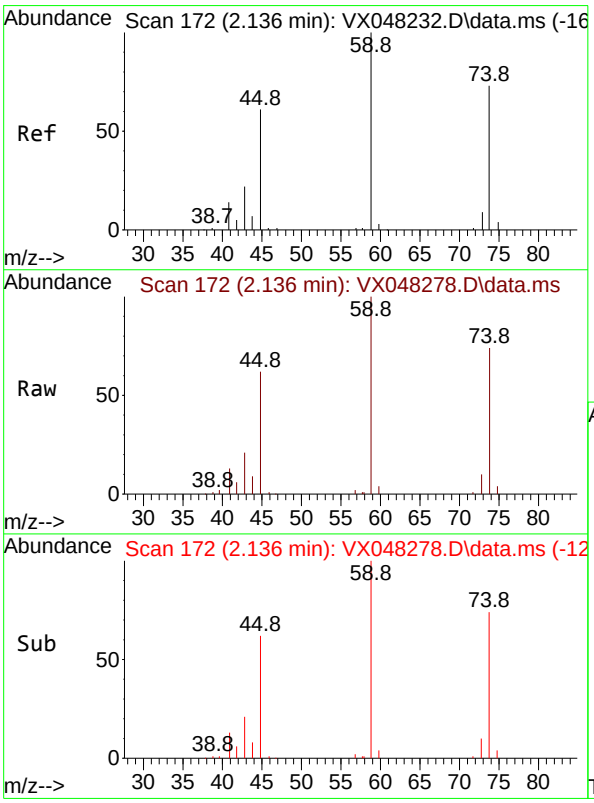
#7
Trichlorofluoromethane
Concen: 46.992 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 88297

Ion	Ratio	Lower	Upper
101	100		
103	65.7	51.6	77.4

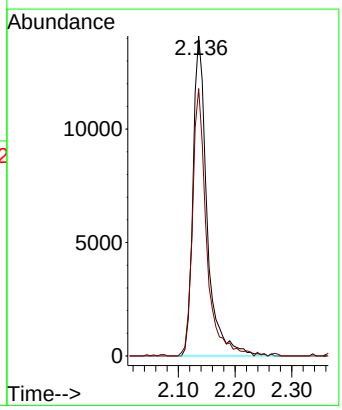


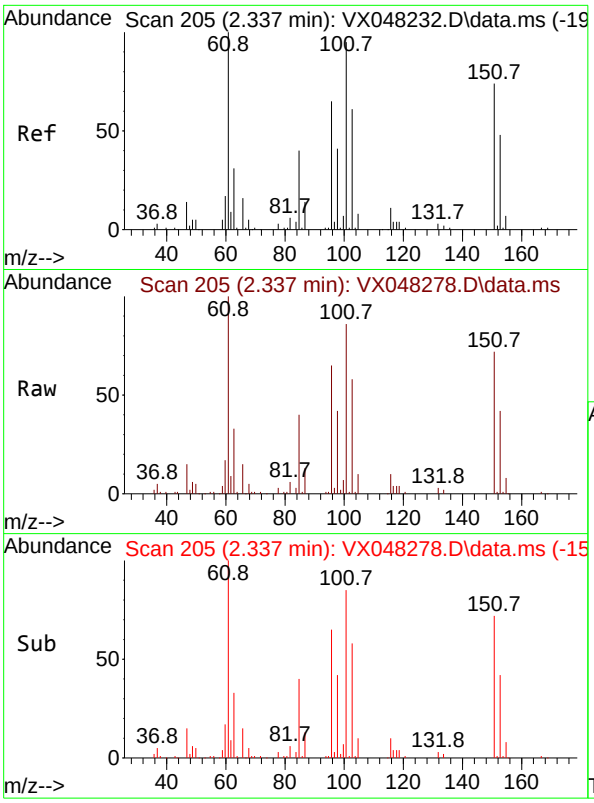


#8
Diethyl Ether
Concen: 45.877 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 74 Resp: 24255

Ion	Ratio	Lower	Upper
74	100		
45	83.2	50.0	149.8



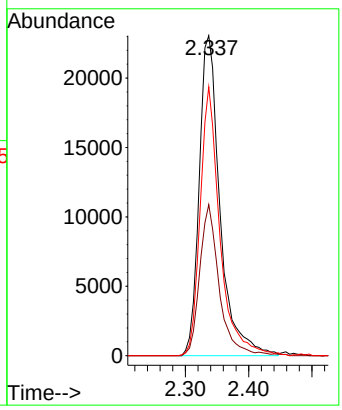


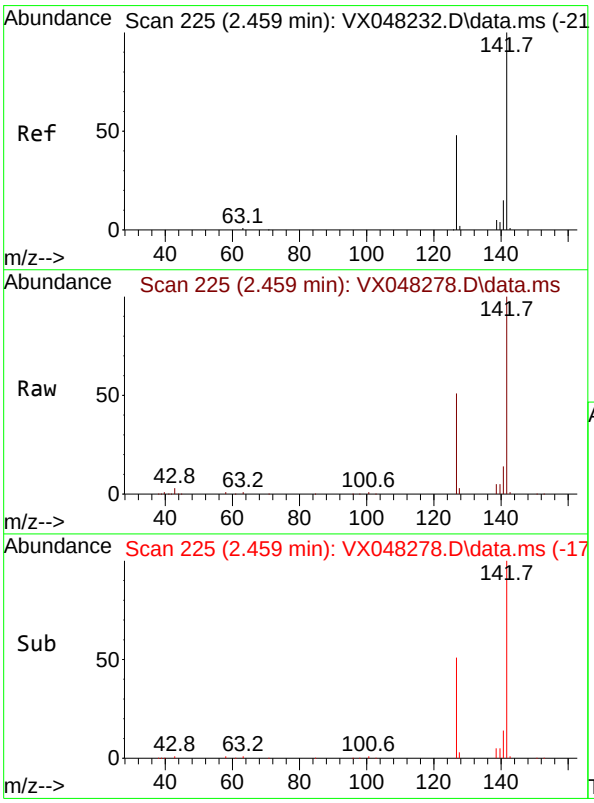
#9
1,1,2-Trichlorotrifluoroethane
Concen: 44.374 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 52798

Ion	Ratio	Lower	Upper
101	100		
85	44.5	35.6	53.4
151	79.7	58.0	87.0

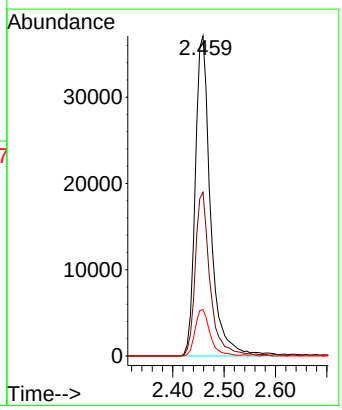


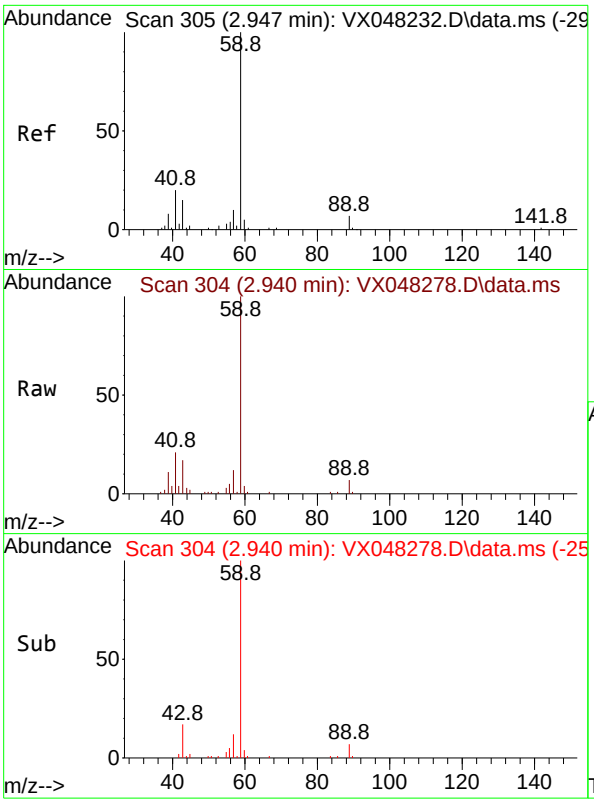


#10
Methyl Iodide
Concen: 51.416 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:142 Resp: 76908

Ion	Ratio	Lower	Upper
142	100		
127	49.9	38.5	57.7
141	14.2	11.6	17.4



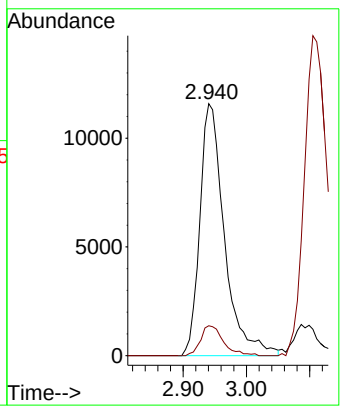


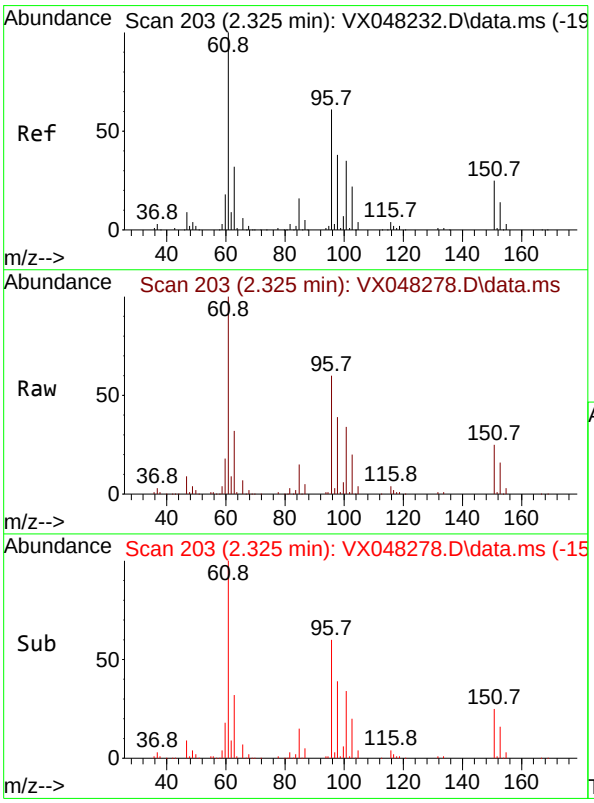
#11
Tert butyl alcohol
Concen: 204.253 ug/l
RT: 2.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 31351

Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.2	12.4

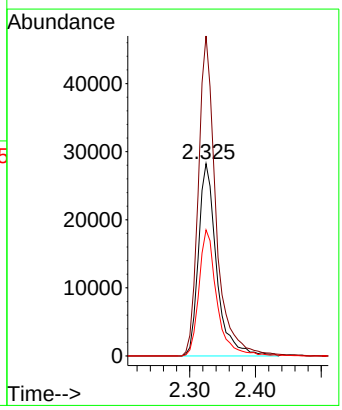


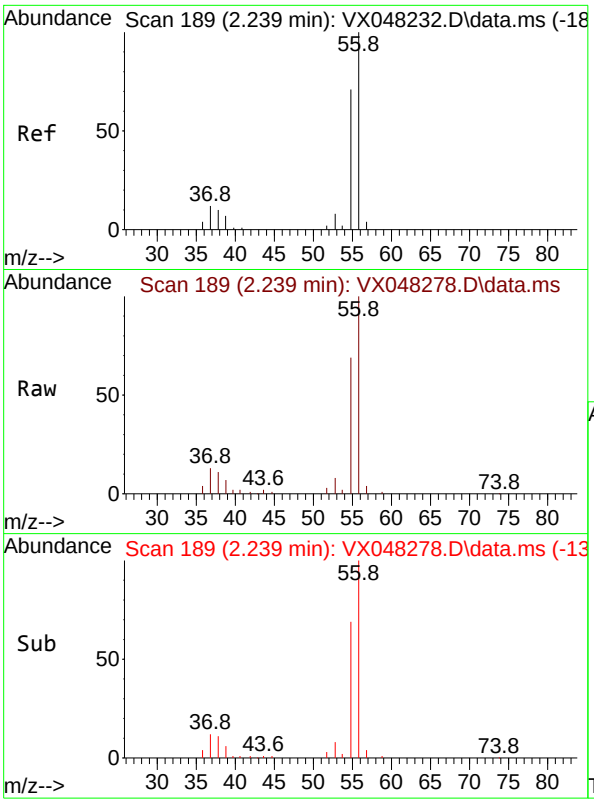


#12
1,1-Dichloroethene
Concen: 46.632 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 96 Resp: 53980

Ion	Ratio	Lower	Upper
96	100		
61	166.4	139.0	208.6
98	65.5	52.4	78.6



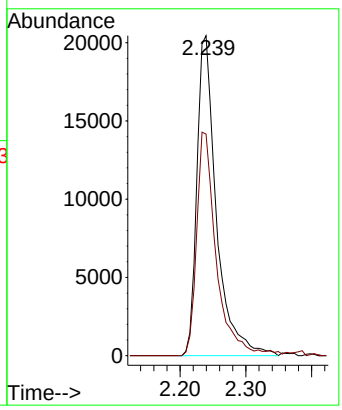


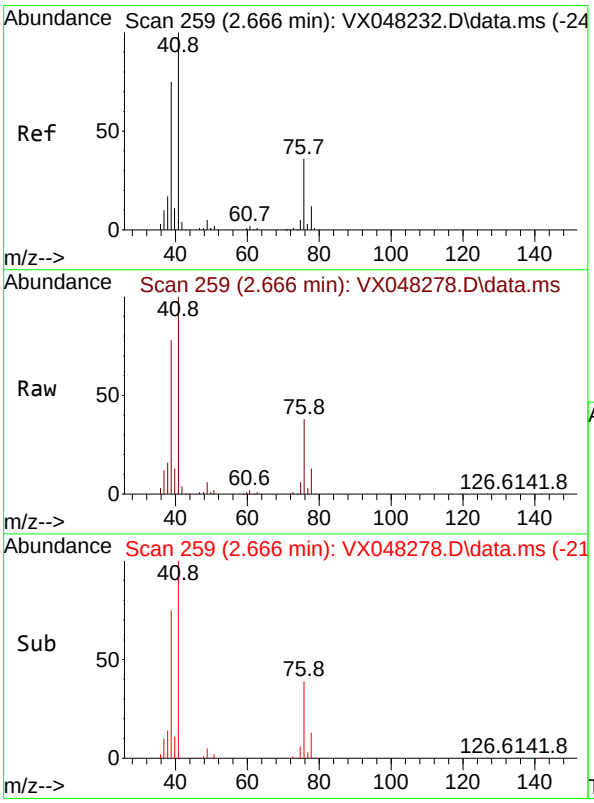
#13
Acrolein
Concen: 269.101 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 42126

Ion	Ratio	Lower	Upper
56	100		
55	70.5	56.1	84.1

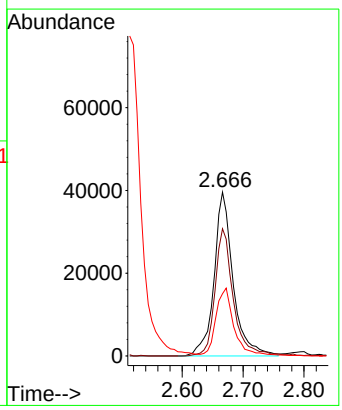


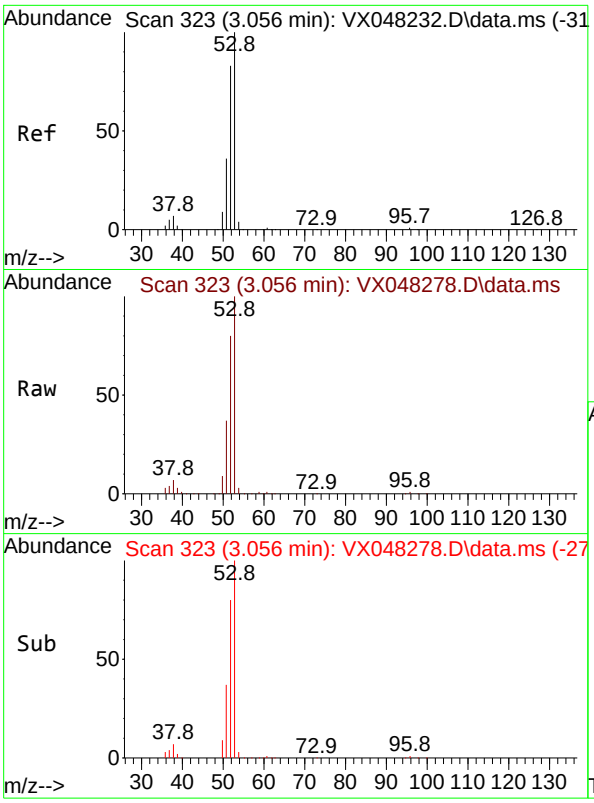


#14
Allyl chloride
Concen: 44.749 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 41 Resp: 86002

Ion	Ratio	Lower	Upper
41	100		
39	74.6	56.0	84.0
76	39.7	27.5	41.3



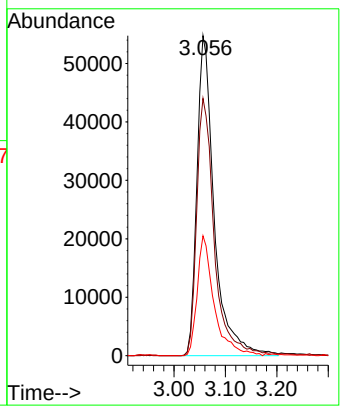


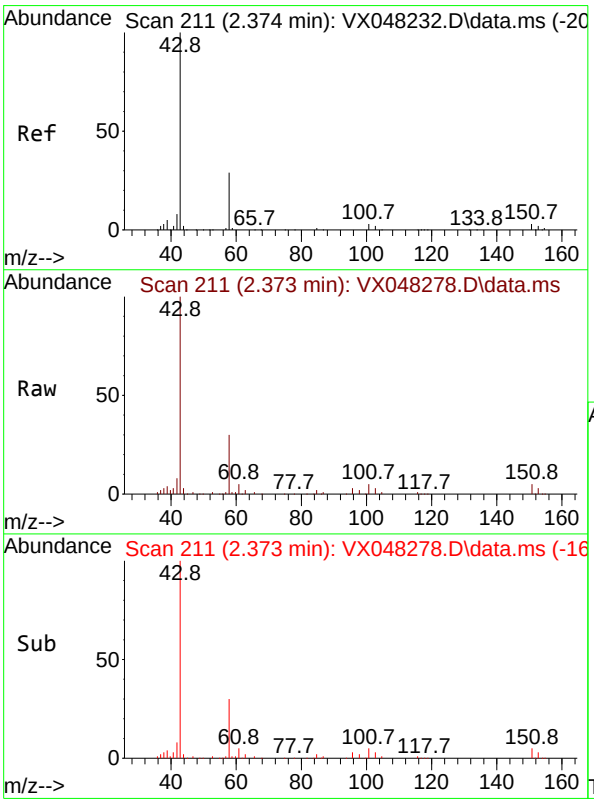
#15
Acrylonitrile
Concen: 230.910 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 127802

Ion	Ratio	Lower	Upper
53	100		
52	82.5	66.1	99.1
51	36.7	29.0	43.4

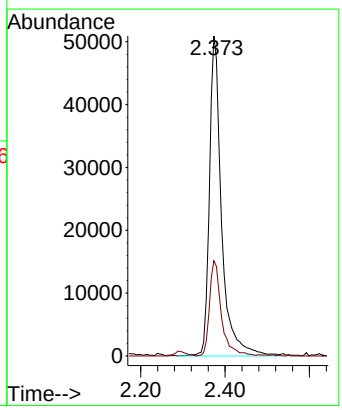


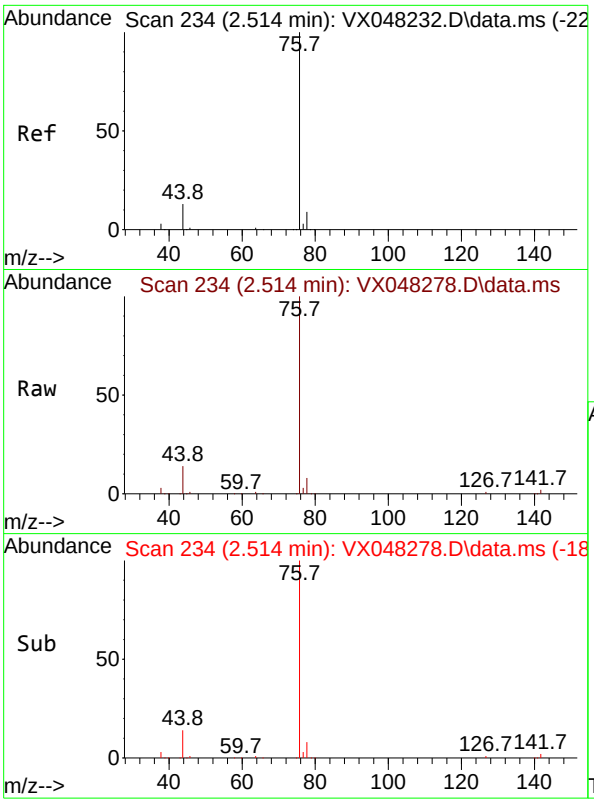


#16
Acetone
Concen: 191.905 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 43 Resp: 101775

Ion	Ratio	Lower	Upper
43	100		
58	31.0	23.4	35.2



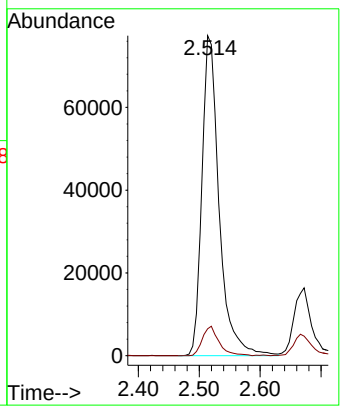


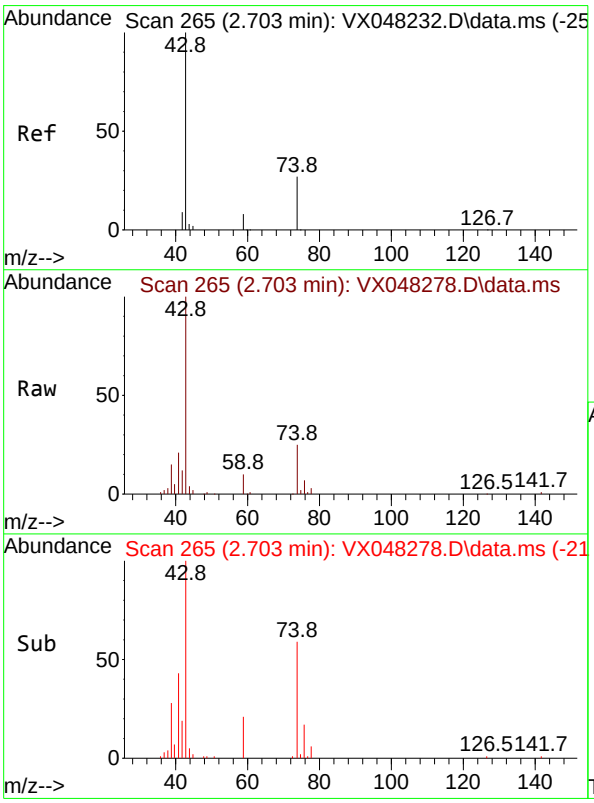
#17
Carbon Disulfide
Concen: 41.561 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 151626

Ion	Ratio	Lower	Upper
76	100		
78	8.4	7.1	10.7

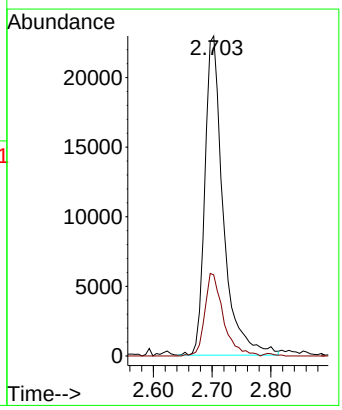


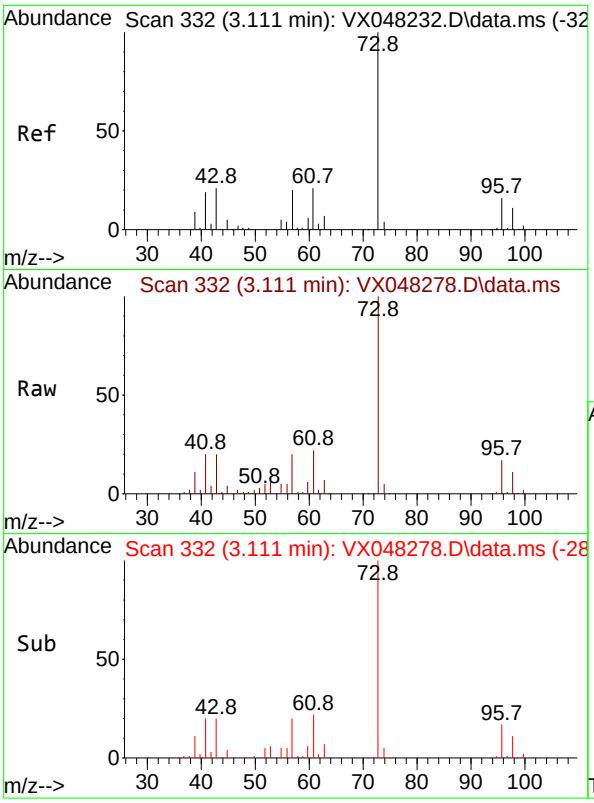


#18
Methyl Acetate
Concen: 44.941 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 43 Resp: 49775

Ion	Ratio	Lower	Upper
43	100		
74	26.1	17.5	26.3



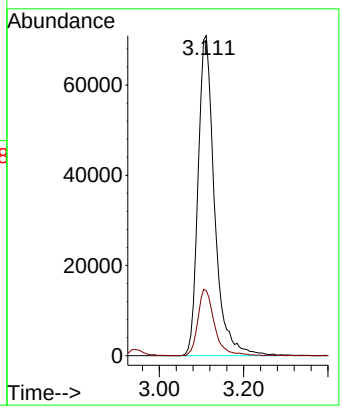


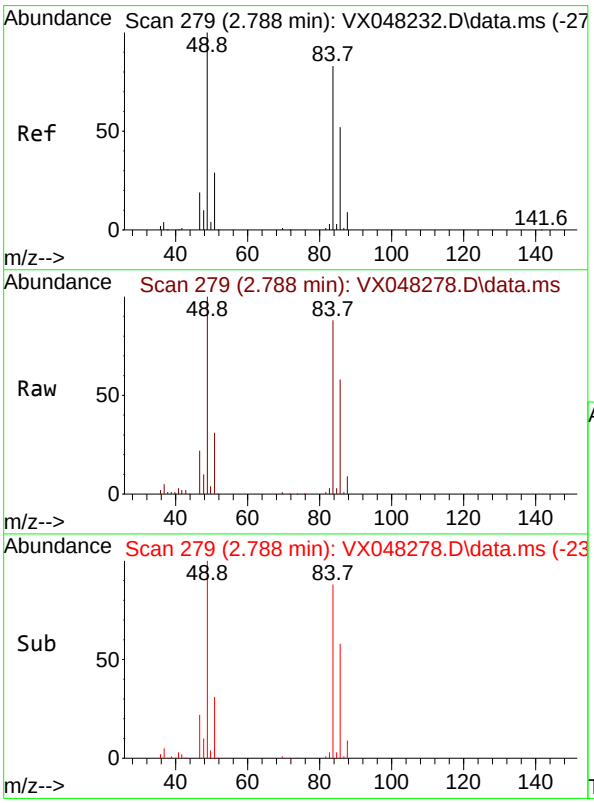
#19
Methyl tert-butyl Ether
Concen: 48.837 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 192863

Ion	Ratio	Lower	Upper
73	100		
57	20.3	17.7	26.5

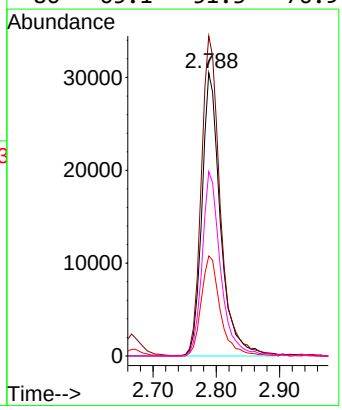


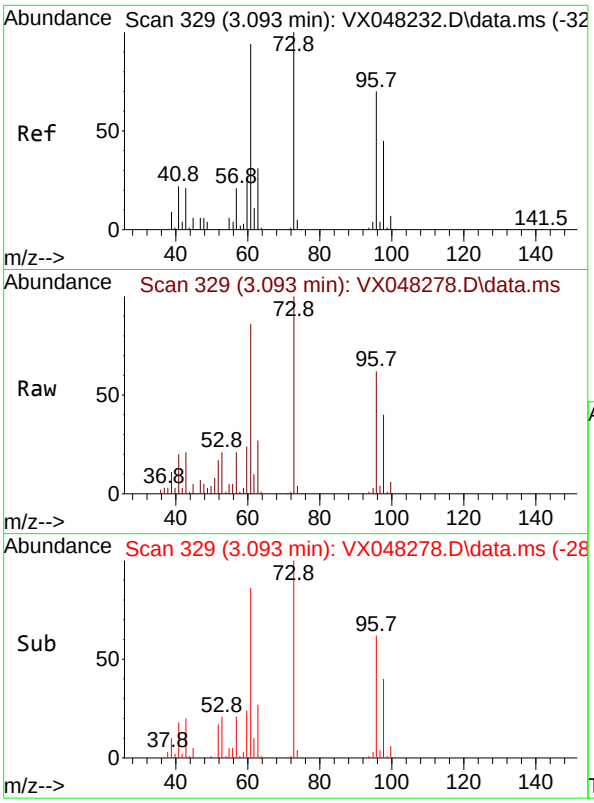


#20
Methylene Chloride
Concen: 48.124 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 84 Resp: 62187

Ion	Ratio	Lower	Upper
84	100		
49	112.8	104.1	156.1
51	35.3	31.3	46.9
86	65.1	51.3	76.9



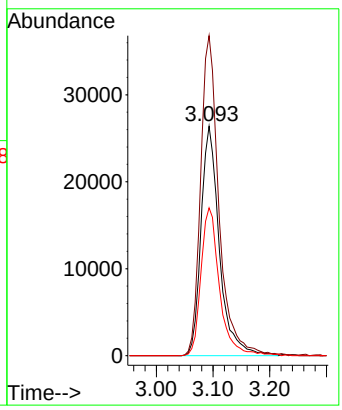


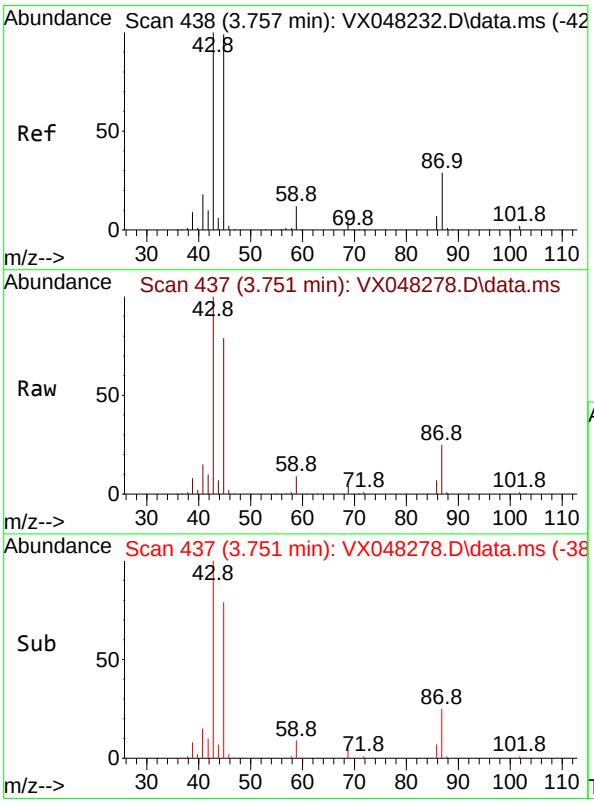
#21
trans-1,2-Dichloroethene
Concen: 46.571 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 59217

Ion	Ratio	Lower	Upper
96	100		
61	139.4	111.9	167.9
98	64.4	51.2	76.8

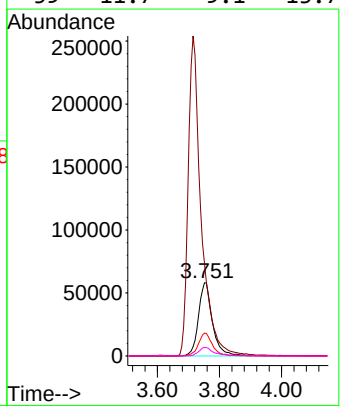


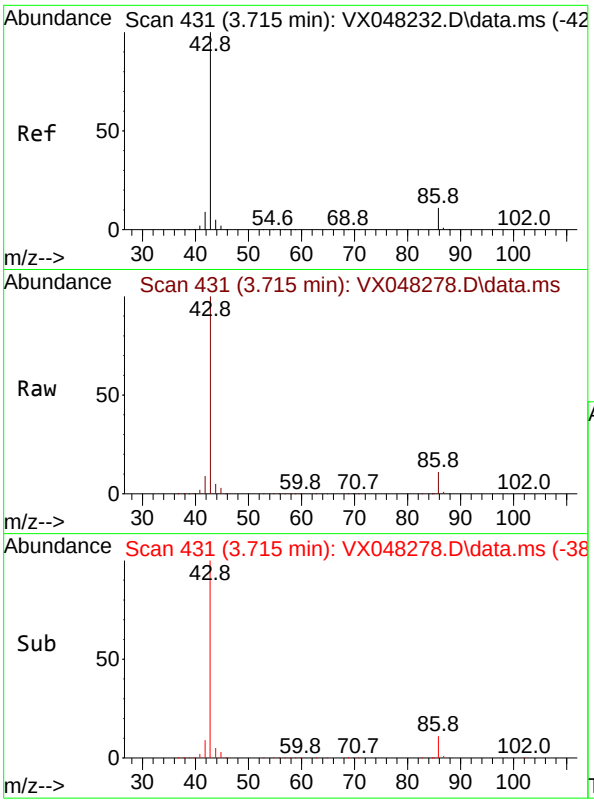


#22
Diisopropyl ether
Concen: 47.827 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 45 Resp: 183332

Ion	Ratio	Lower	Upper
45	100		
43	126.5	89.8	134.8
87	31.3	20.6	31.0#
59	11.7	9.1	13.7



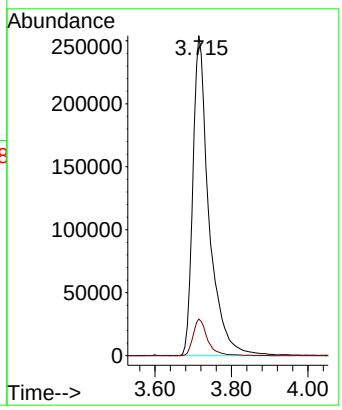


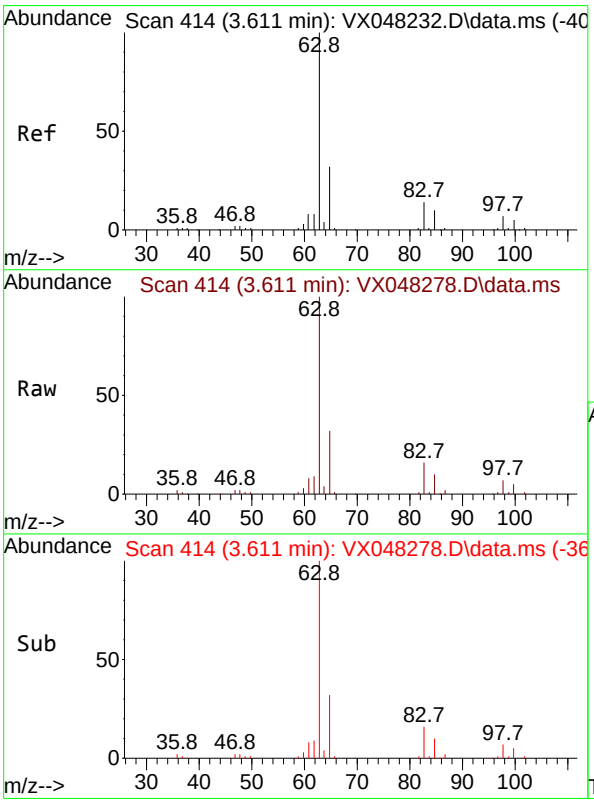
#23
Vinyl Acetate
Concen: 242.501 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 742546

Ion	Ratio	Lower	Upper
43	100		
86	11.5	7.9	11.9

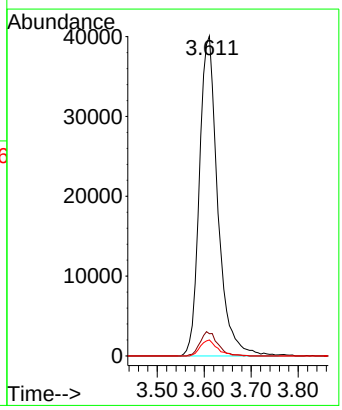


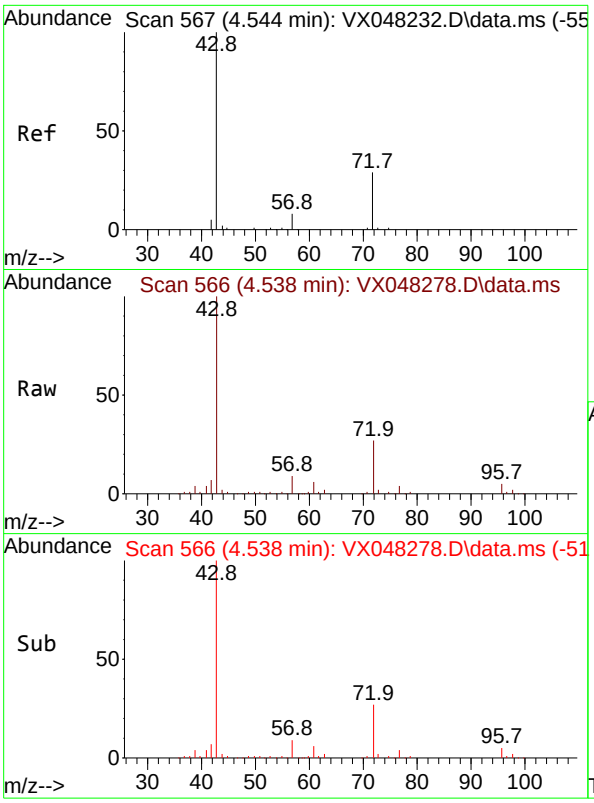


#24
1,1-Dichloroethane
Concen: 46.973 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 63 Resp: 108877

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.6
100	5.0	2.1	6.3



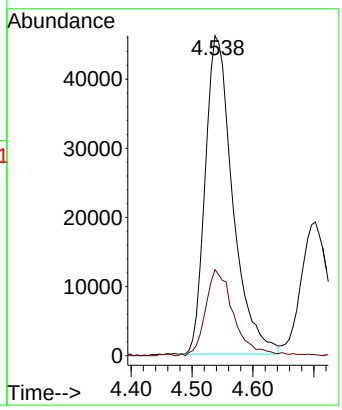


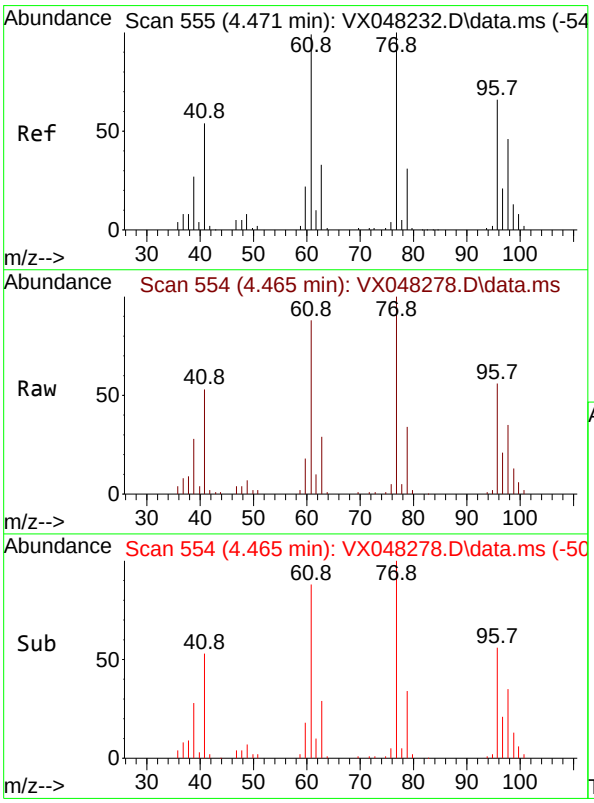
#25
2-Butanone
Concen: 215.374 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 144575

Ion	Ratio	Lower	Upper
43	100		
72	27.0	19.9	29.9

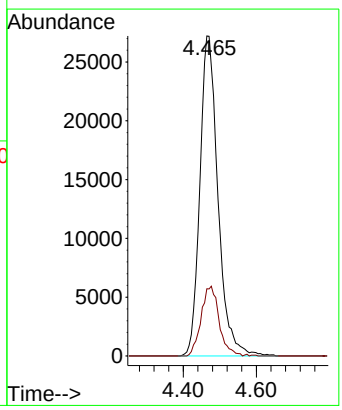


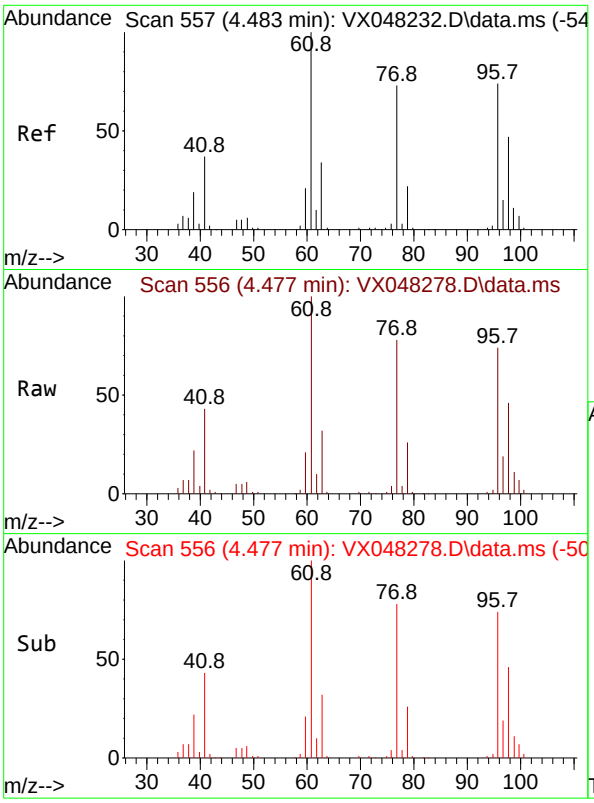


#26
2,2-Dichloropropane
Concen: 44.766 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 77 Resp: 93655

Ion	Ratio	Lower	Upper
77	100		
97	21.6	11.1	33.3



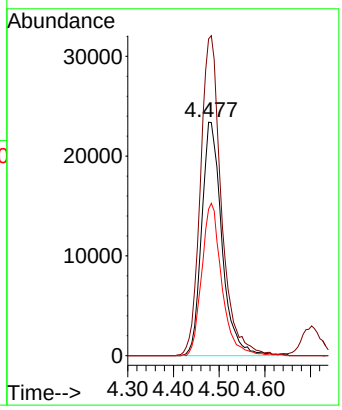


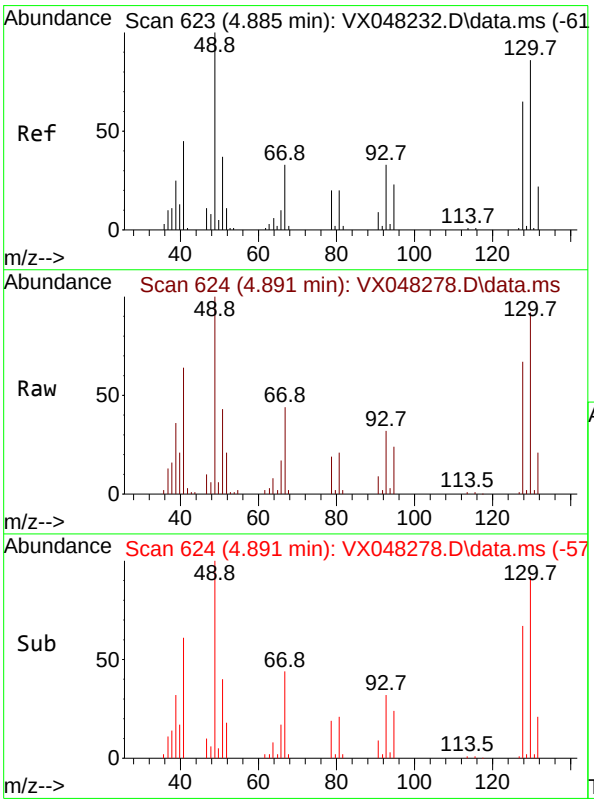
#27
cis-1,2-Dichloroethene
Concen: 48.458 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 71911

Ion	Ratio	Lower	Upper
96	100		
61	141.9	0.0	294.2
98	64.3	0.0	128.4

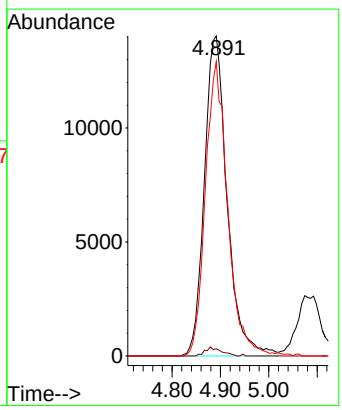


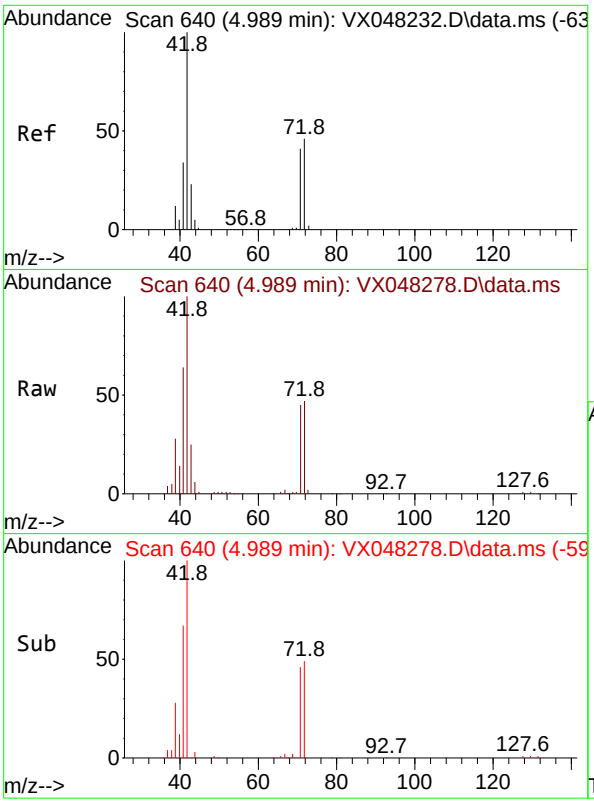


#28
Bromochloromethane
Concen: 47.680 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 49 Resp: 45824

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.4
130	90.3	59.3	88.9#



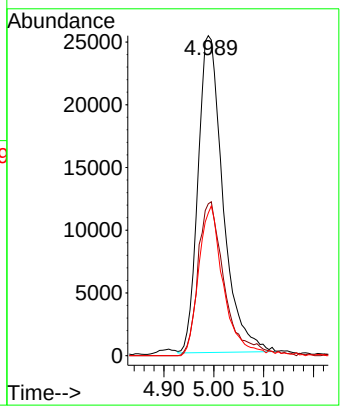


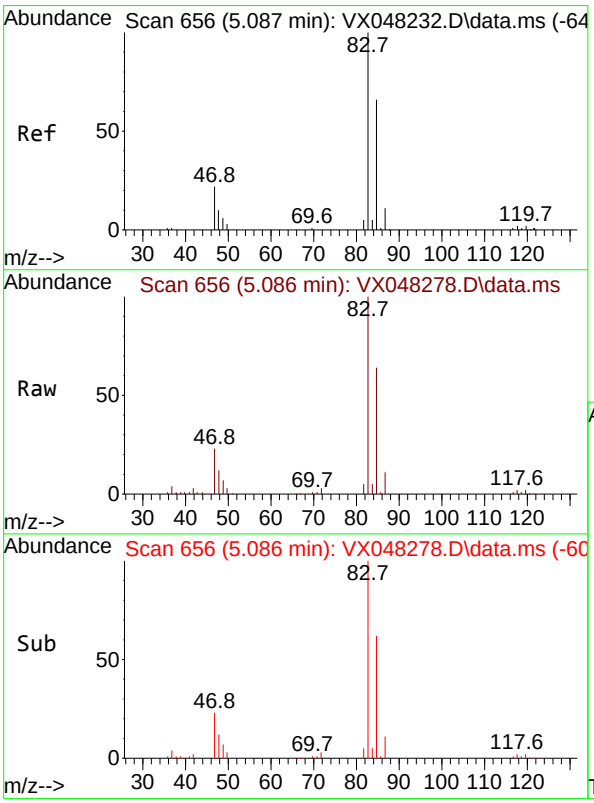
#29
Tetrahydrofuran
Concen: 218.490 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 87839

Ion	Ratio	Lower	Upper
42	100		
72	51.8	35.3	52.9
71	46.7	32.2	48.4

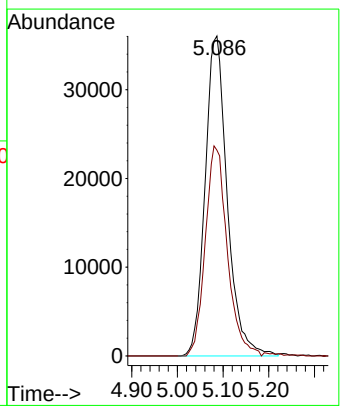


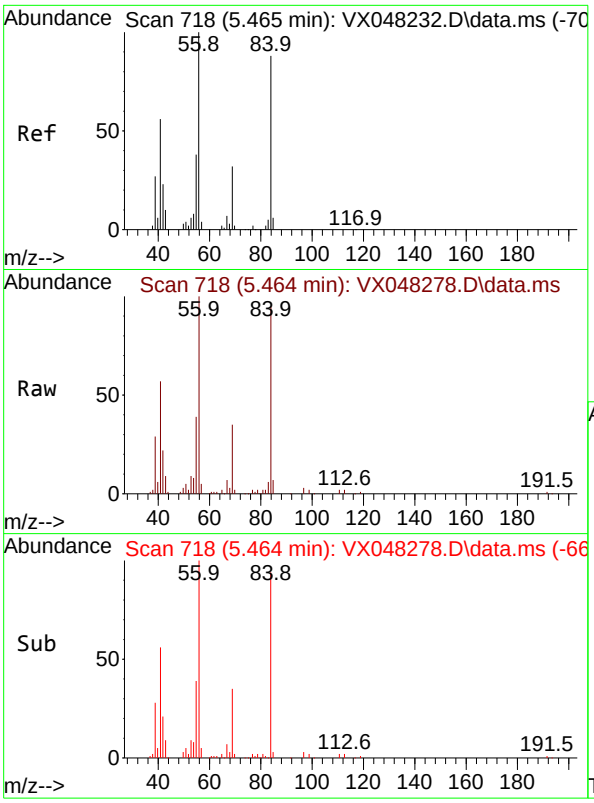


#30
Chloroform
Concen: 49.137 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 83 Resp: 121680

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.1	75.1



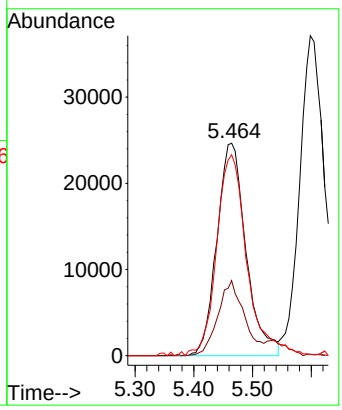


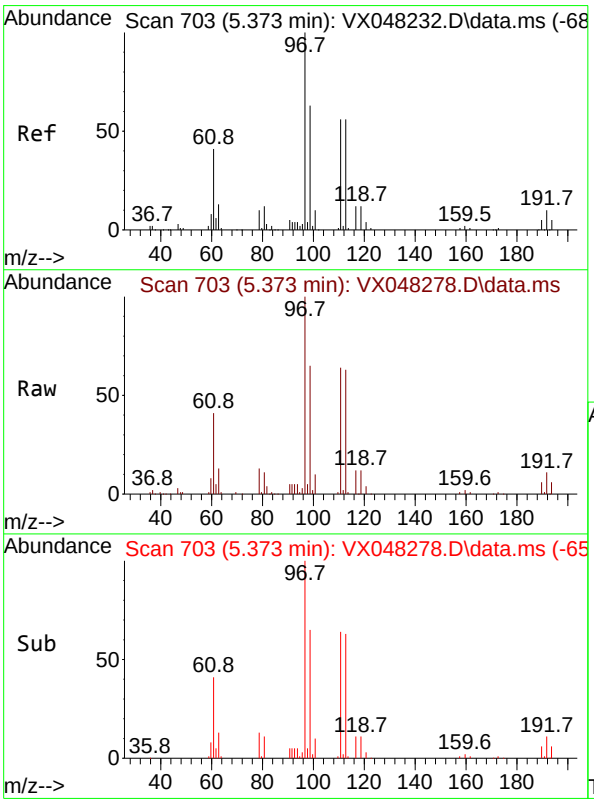
#31
Cyclohexane
Concen: 44.238 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 84891

Ion	Ratio	Lower	Upper
56	100		
69	34.7	23.0	34.6#
84	94.2	64.6	97.0

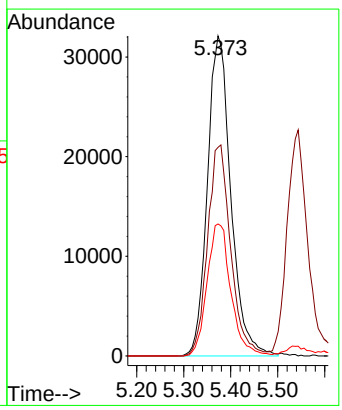


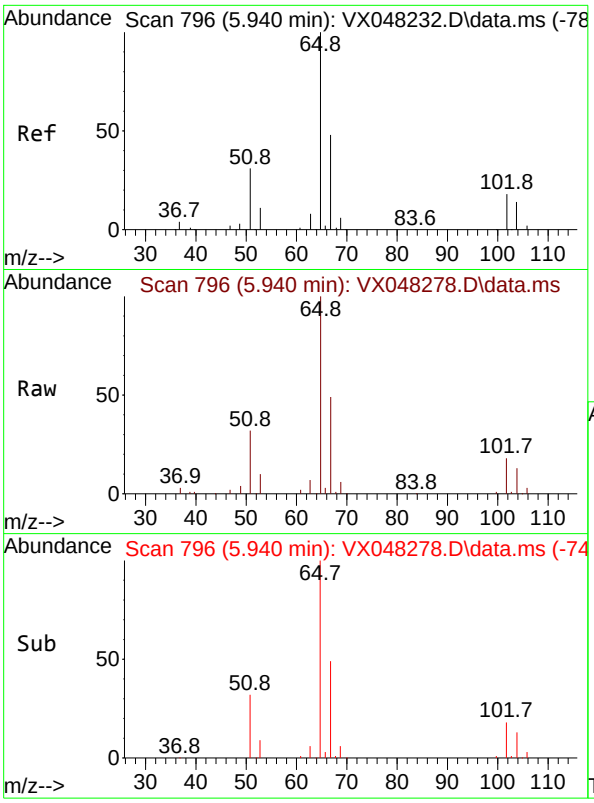


#32
1,1,1-Trichloroethane
Concen: 48.747 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 97 Resp: 111254

Ion	Ratio	Lower	Upper
97	100		
99	65.4	51.7	77.5
61	41.9	34.8	52.2



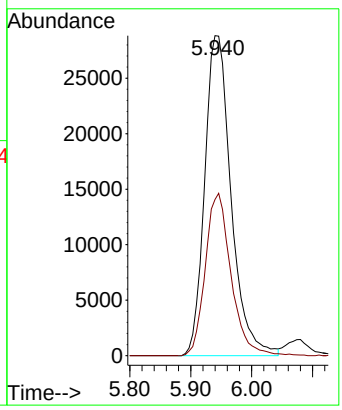


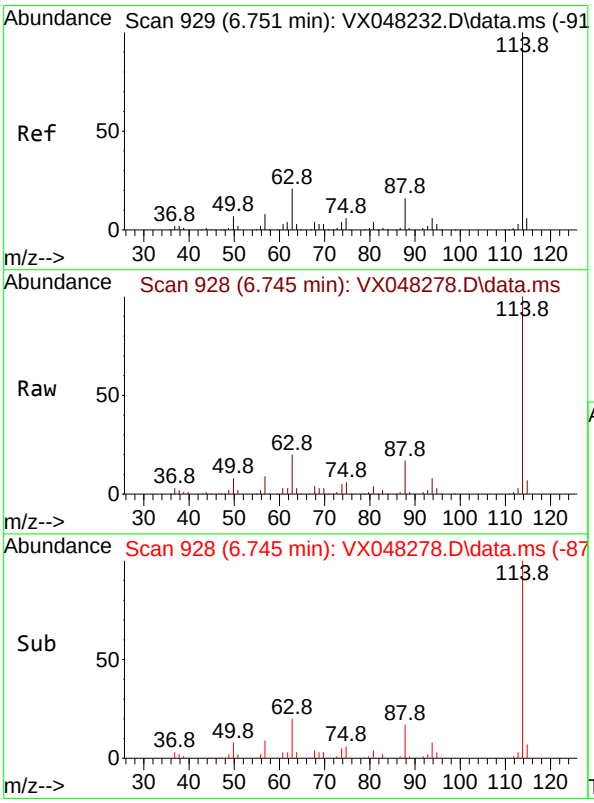
#33
1,2-Dichloroethane-d4
Concen: 56.153 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 86809

Ion	Ratio	Lower	Upper
65	100		
67	49.6	0.0	105.0

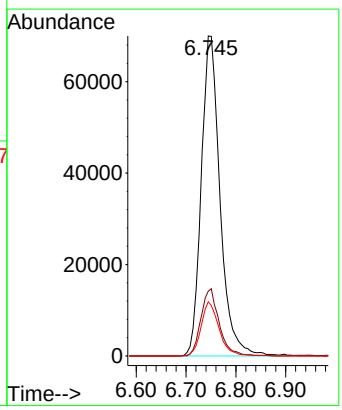


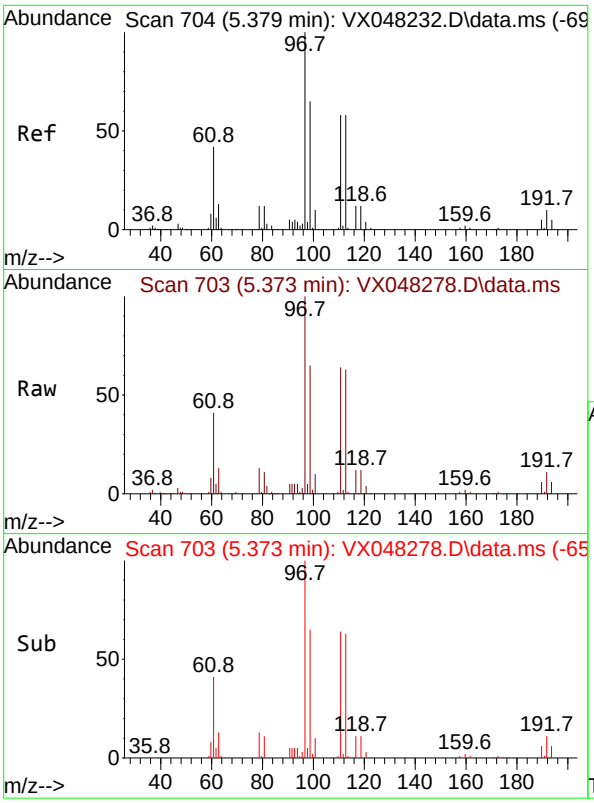


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:114 Resp: 183155

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	43.2
88	16.9	0.0	33.6



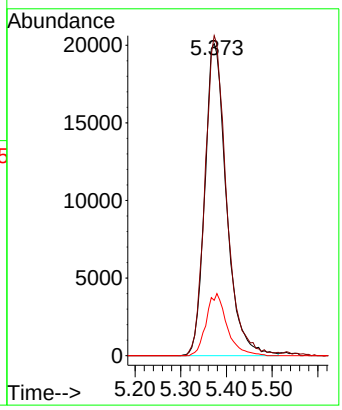


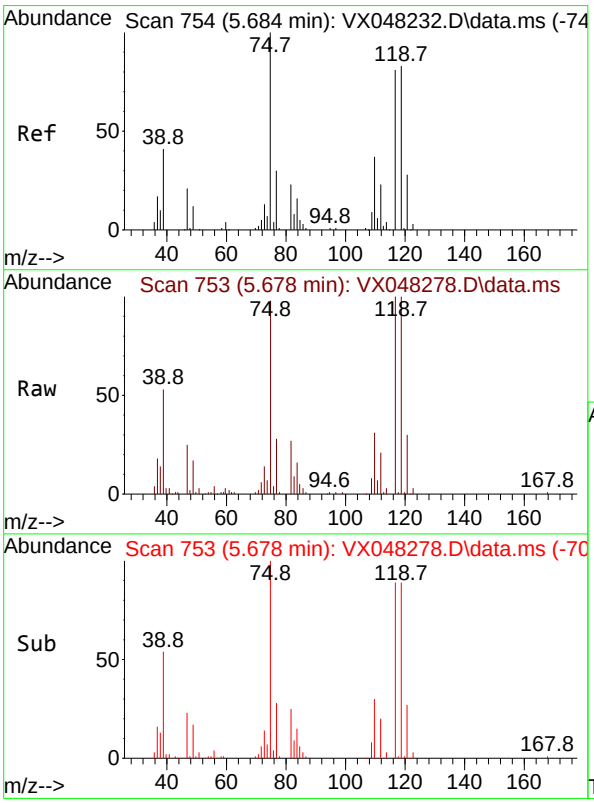
#35
Dibromofluoromethane
Concen: 52.800 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 66021

Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.2	123.4
192	19.3	15.1	22.7

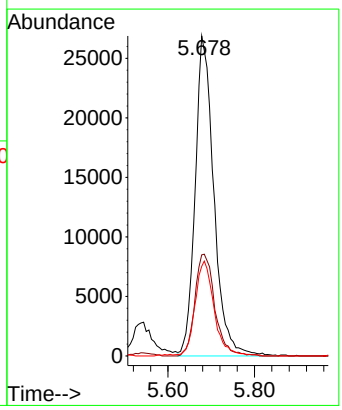


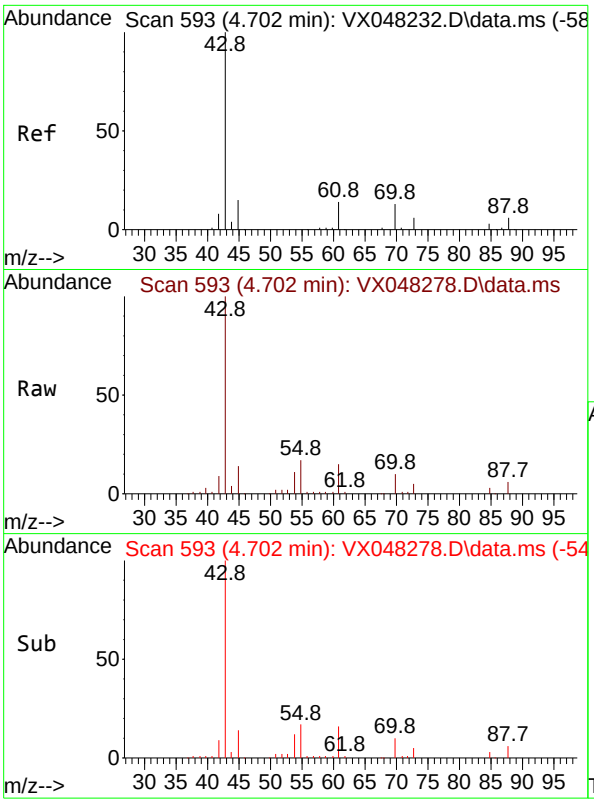


#36
1,1-Dichloropropene
Concen: 45.371 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 75 Resp: 80634

Ion	Ratio	Lower	Upper
75	100		
110	33.9	17.7	53.1
77	30.2	24.3	36.5



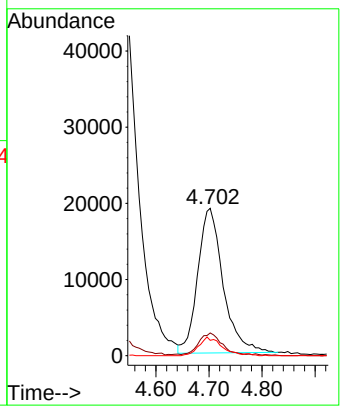


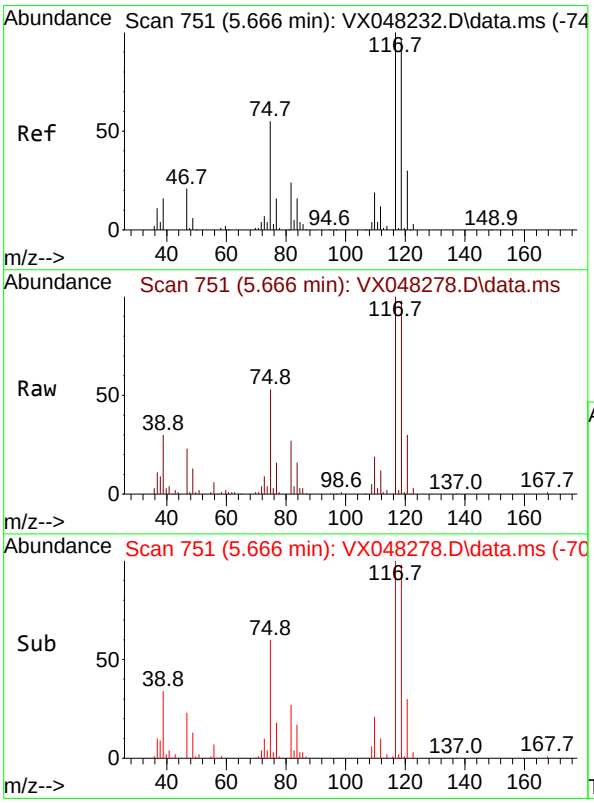
#37
Ethyl Acetate
Concen: 42.851 ug/l
RT: 4.702 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 63123

Ion	Ratio	Lower	Upper
43	100		
61	14.1	10.6	15.8
70	11.2	7.8	11.6

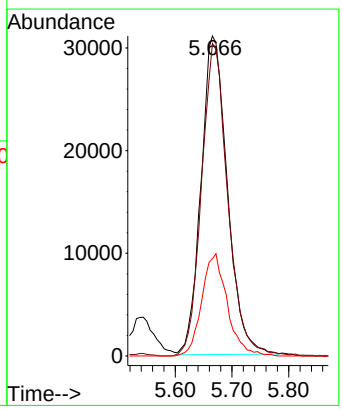


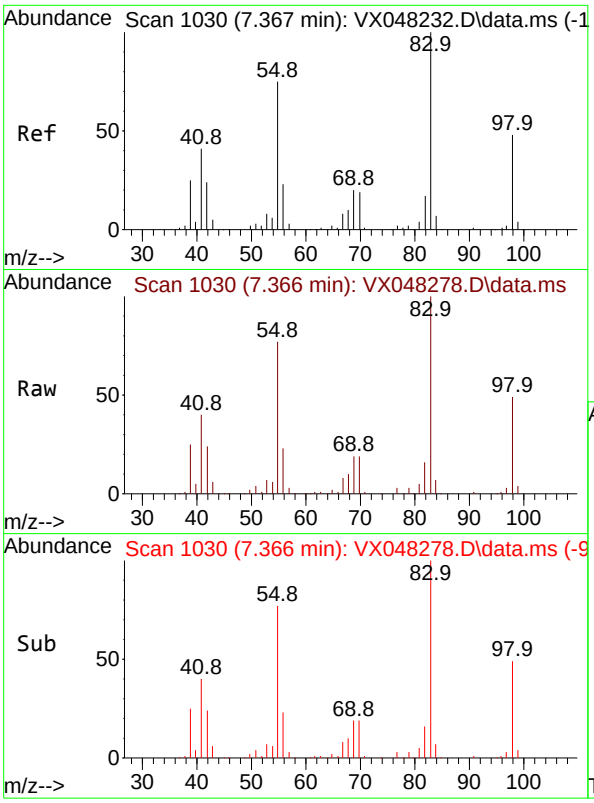


#38
Carbon Tetrachloride
Concen: 45.671 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:117 Resp: 100140

Ion	Ratio	Lower	Upper
117	100		
119	97.6	77.2	115.8
121	30.6	24.8	37.2



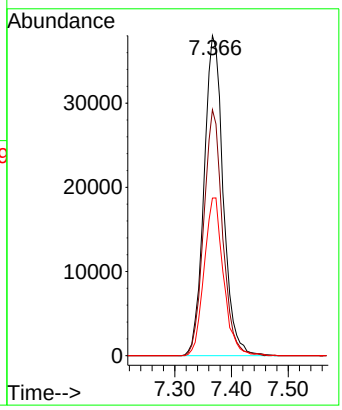


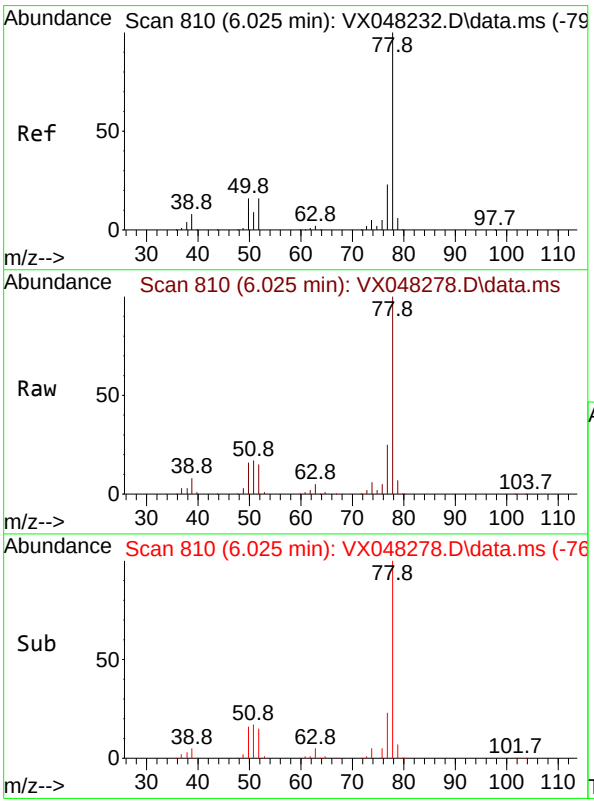
#39
Methylcyclohexane
Concen: 42.670 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 89560

Ion	Ratio	Lower	Upper
83	100		
55	76.8	66.2	99.2
98	49.2	38.9	58.3

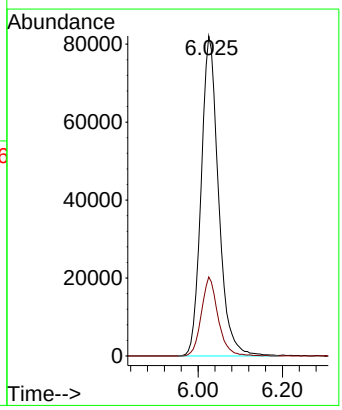


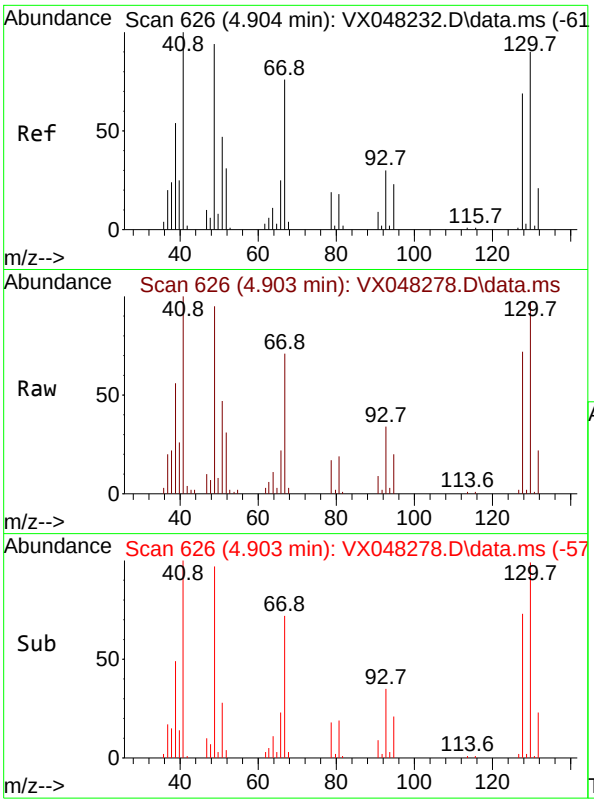


#40
Benzene
Concen: 45.621 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 78 Resp: 235395

Ion	Ratio	Lower	Upper
78	100		
77	24.7	19.3	28.9



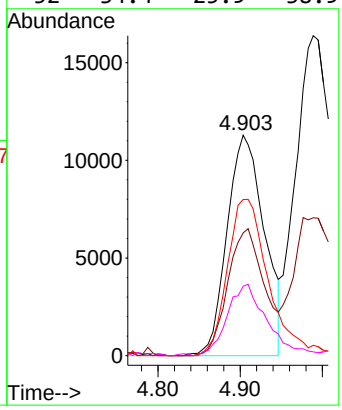


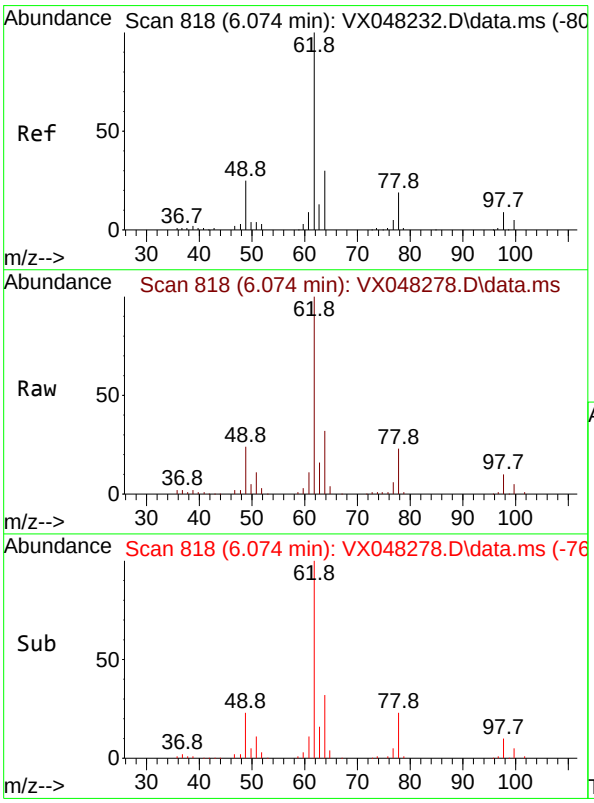
#41
Methacrylonitrile
Concen: 45.945 ug/l
RT: 4.903 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 35543

Ion	Ratio	Lower	Upper
41	100		
39	56.4	44.0	66.0
67	78.6	58.7	88.1
52	34.4	25.9	38.9

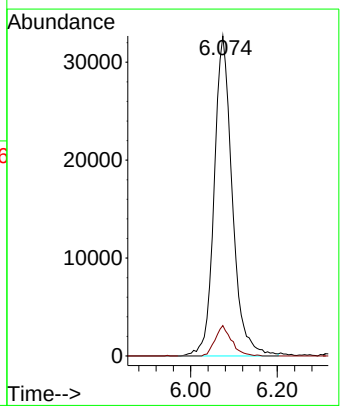


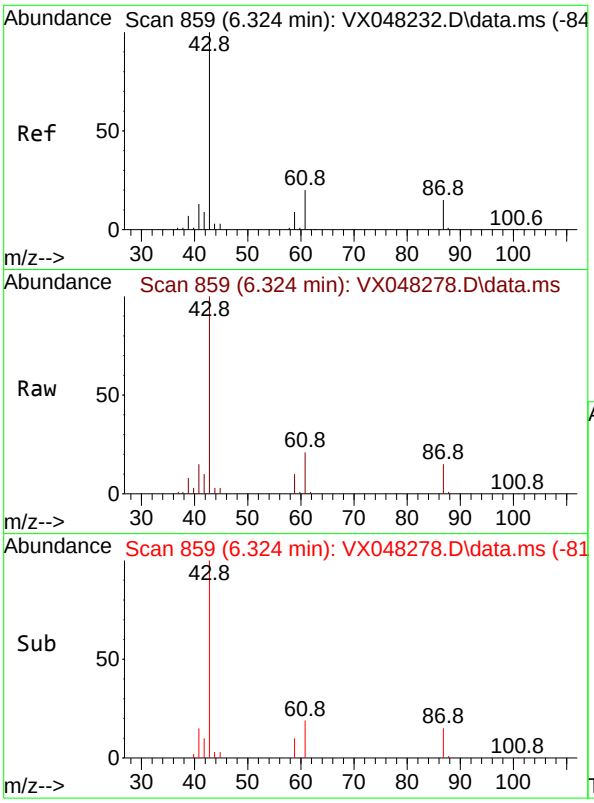


#42
1,2-Dichloroethane
Concen: 49.906 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 62 Resp: 95021

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	17.2



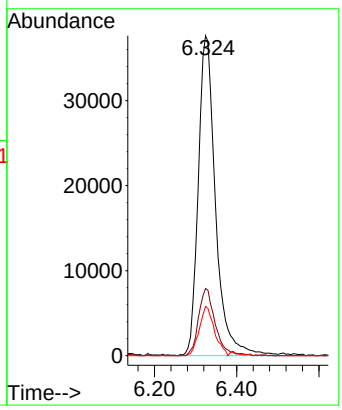


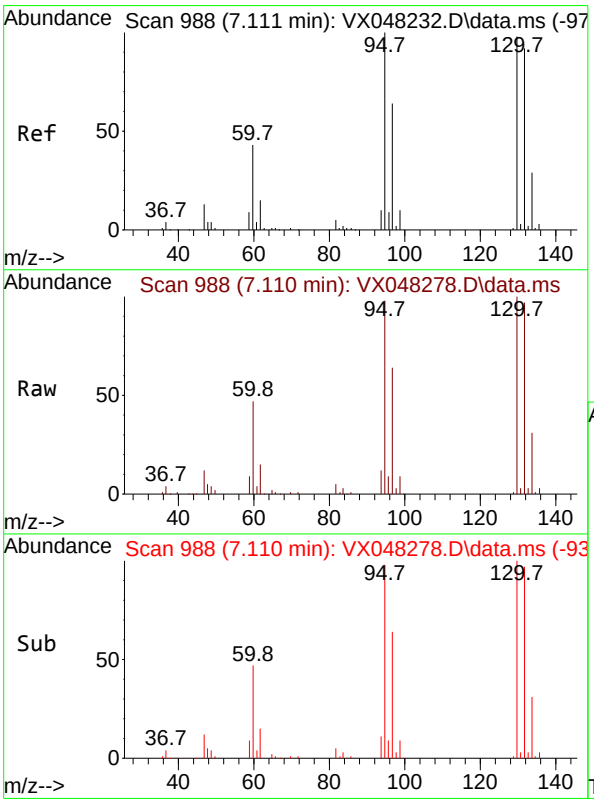
#43
Isopropyl Acetate
Concen: 45.374 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 109791

Ion	Ratio	Lower	Upper
43	100		
61	20.3	14.9	22.3
87	13.4	9.4	14.2

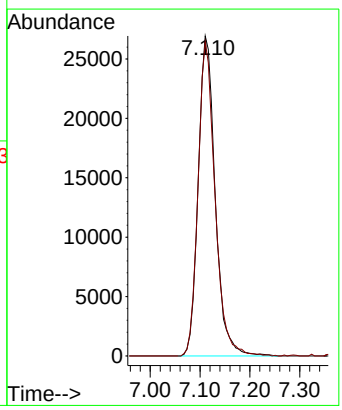


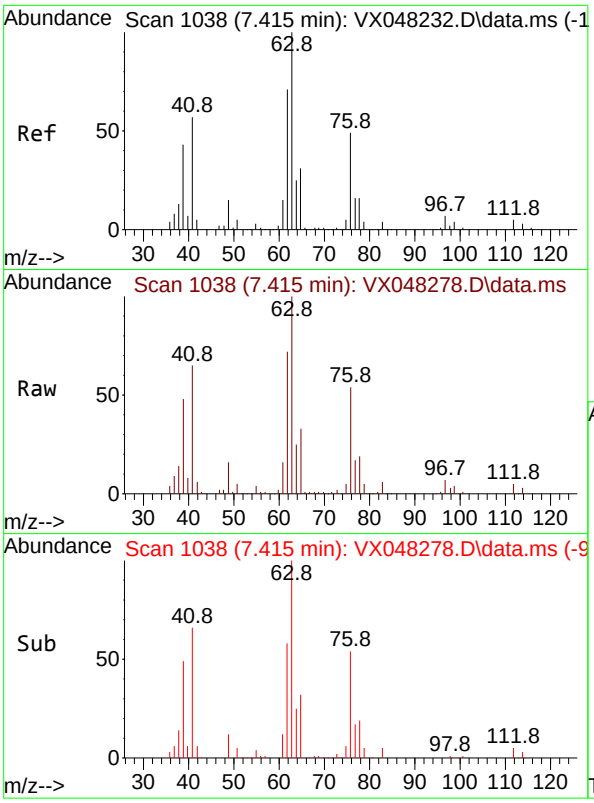


#44
Trichloroethene
Concen: 46.735 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:130 Resp: 63675

Ion	Ratio	Lower	Upper
130	100		
95	107.0	0.0	200.6



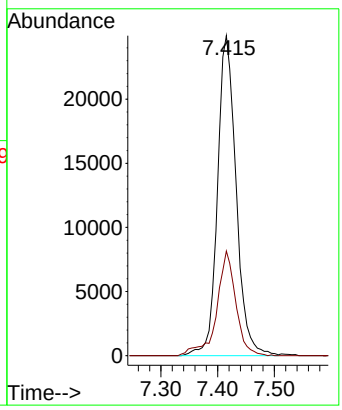


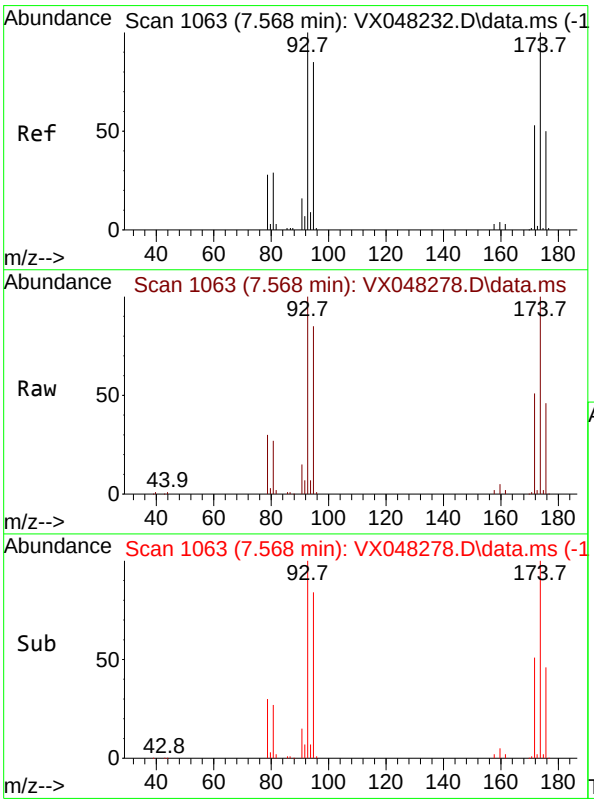
#45
1,2-Dichloropropane
Concen: 46.474 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 57013

Ion	Ratio	Lower	Upper
63	100		
65	32.7	24.1	36.1

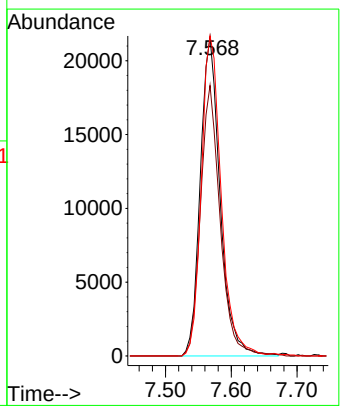


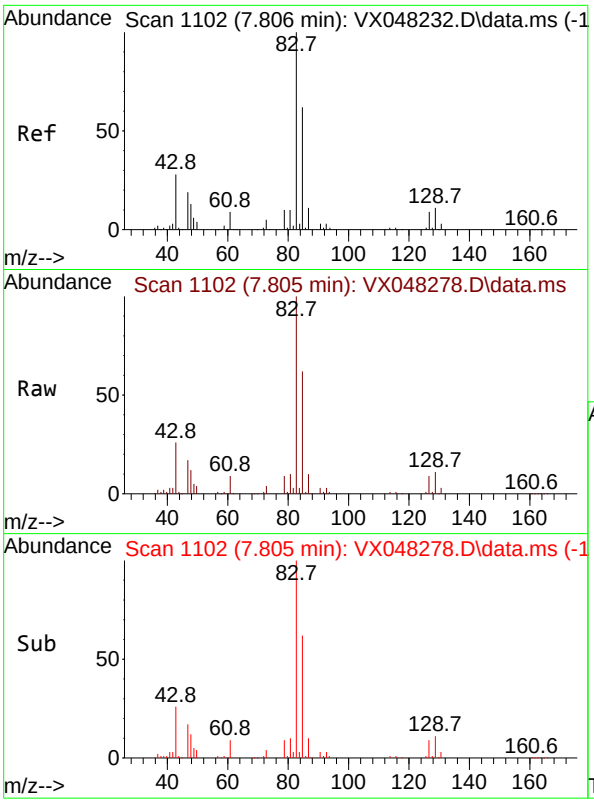


#46
Dibromomethane
Concen: 47.155 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 93 Resp: 45069

Ion	Ratio	Lower	Upper
93	100		
95	84.5	65.9	98.9
174	101.0	71.7	107.5



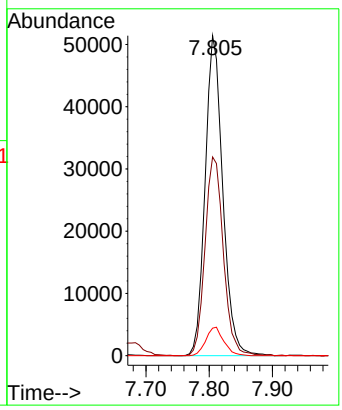


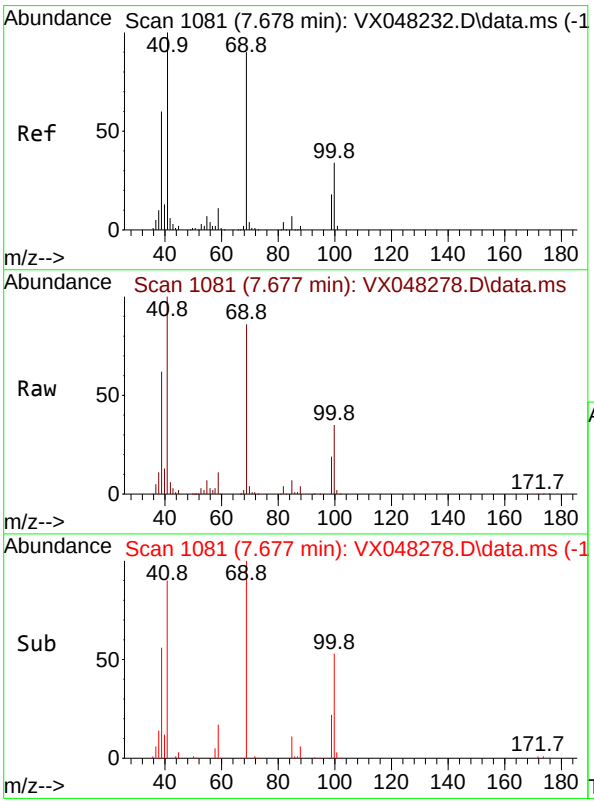
#47
Bromodichloromethane
Concen: 48.404 ug/l
RT: 7.805 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 99888

Ion	Ratio	Lower	Upper
83	100		
85	62.1	52.2	78.4
127	8.6	7.3	10.9

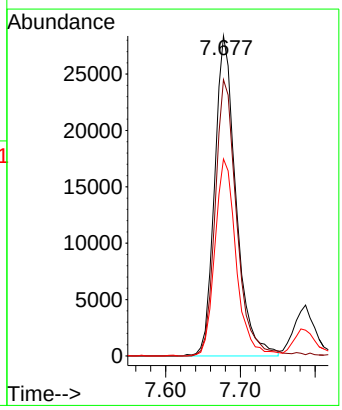


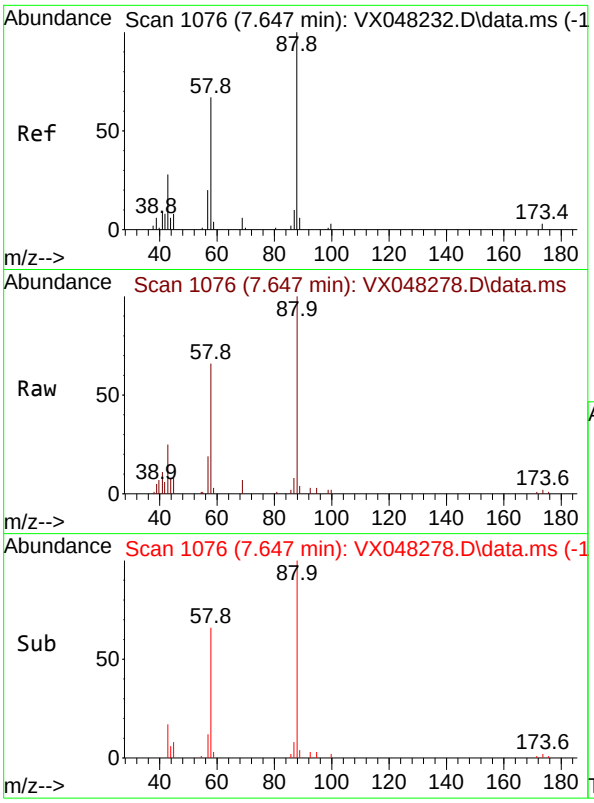


#48
Methyl methacrylate
Concen: 46.243 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 41 Resp: 56463

Ion	Ratio	Lower	Upper
41	100		
69	86.7	63.4	95.0
39	61.4	47.1	70.7



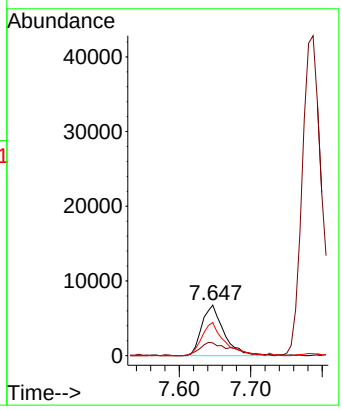


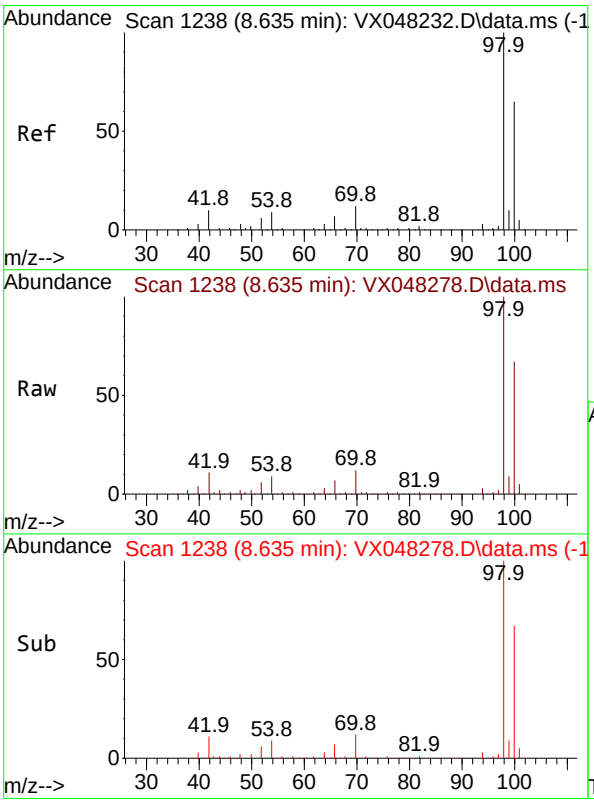
#49
1,4-Dioxane
Concen: 901.119 ug/l
RT: 7.647 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 14536

Ion	Ratio	Lower	Upper
88	100		
43	37.8	35.0	52.4
58	66.5	61.9	92.9

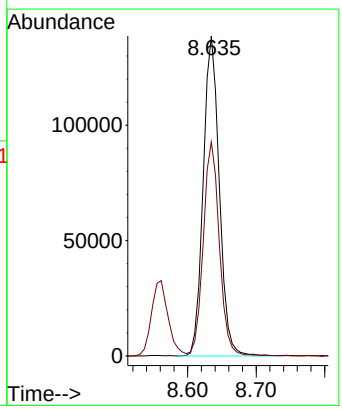


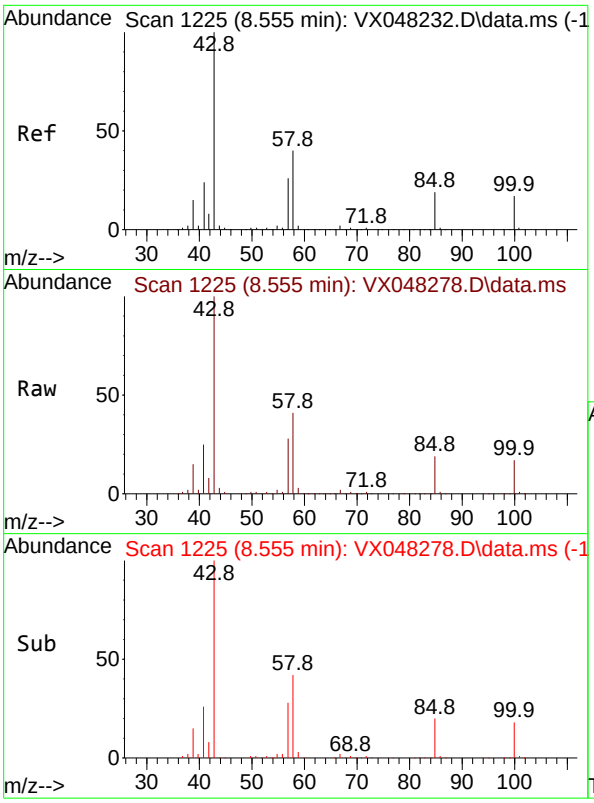


#50
Toluene-d8
Concen: 51.716 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 98 Resp: 226656

Ion	Ratio	Lower	Upper
98	100		
100	66.7	53.0	79.4



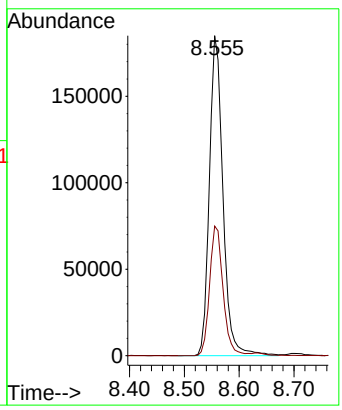


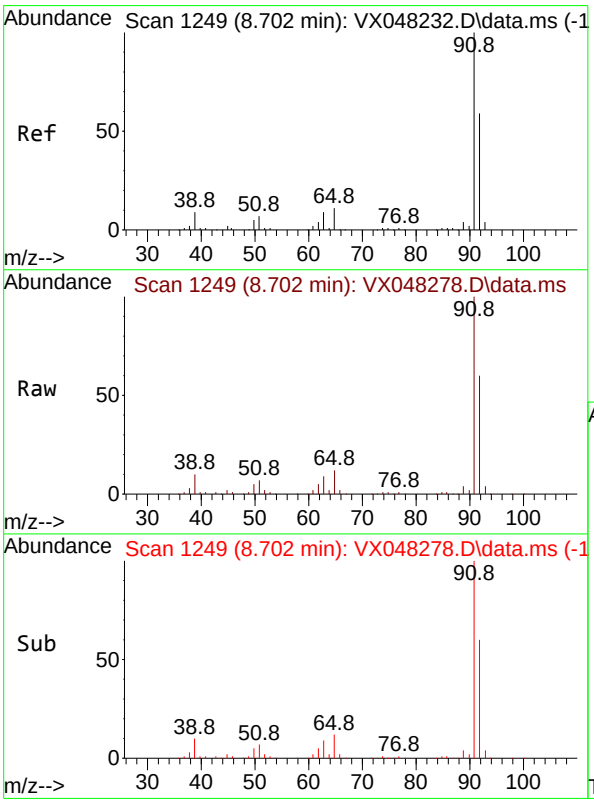
#51
4-Methyl-2-Pentanone
Concen: 227.242 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 317029

Ion	Ratio	Lower	Upper
43	100		
58	40.4	29.5	44.3

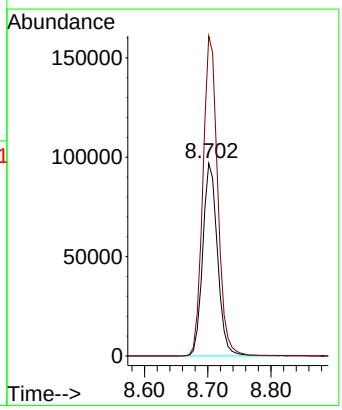


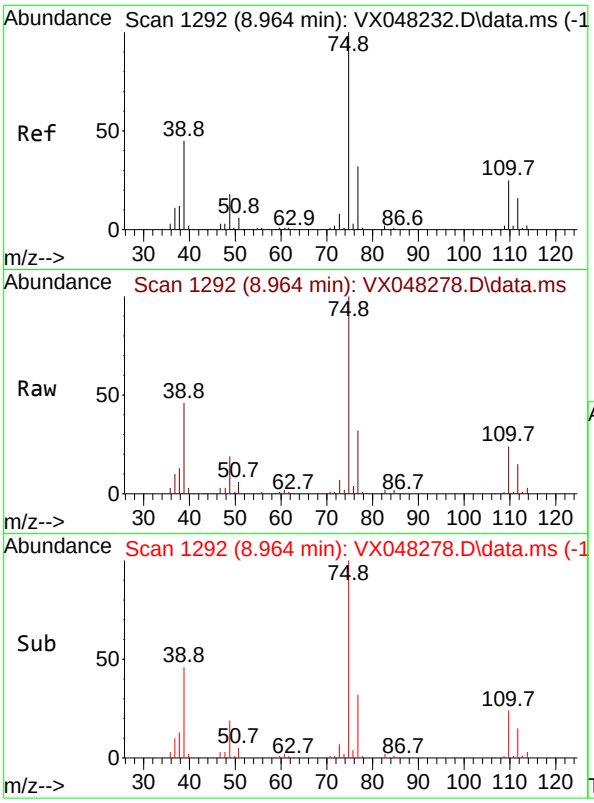


#52
Toluene
Concen: 48.031 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 92 Resp: 157443

Ion	Ratio	Lower	Upper
92	100		
91	166.7	136.1	204.1



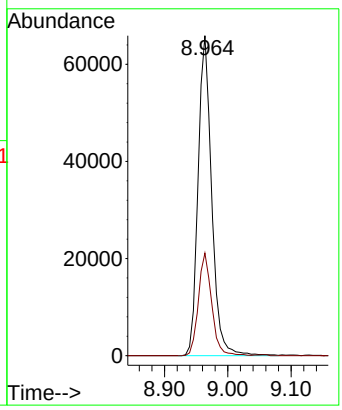


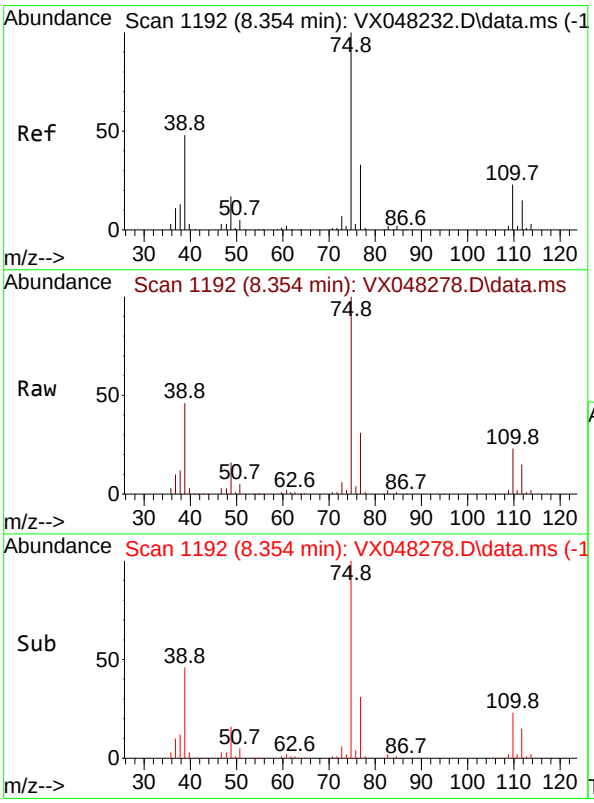
#53
t-1,3-Dichloropropene
Concen: 49.703 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 98842

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.0	37.6

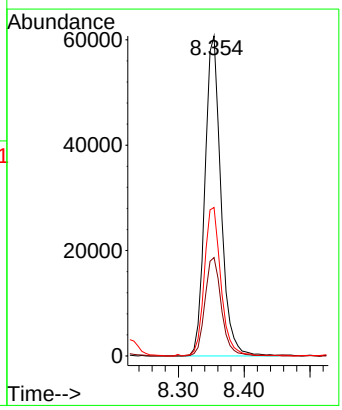


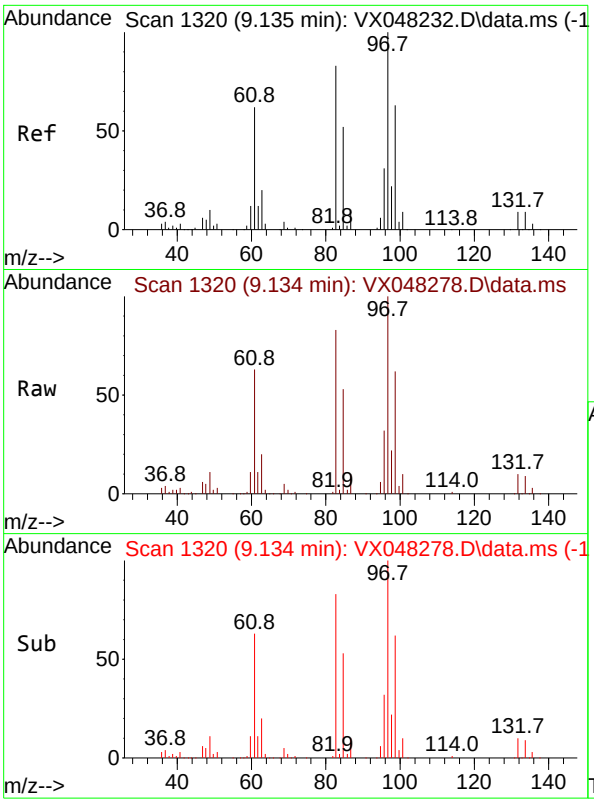


#54
cis-1,3-Dichloropropene
Concen: 47.929 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 75 Resp: 102835

Ion	Ratio	Lower	Upper
75	100		
77	30.8	24.9	37.3
39	46.2	42.6	64.0



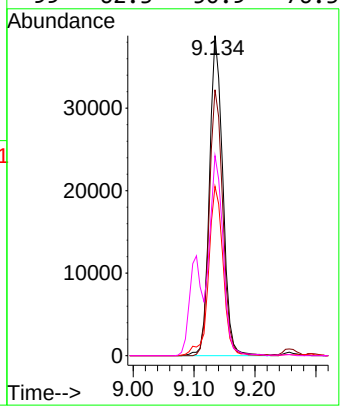


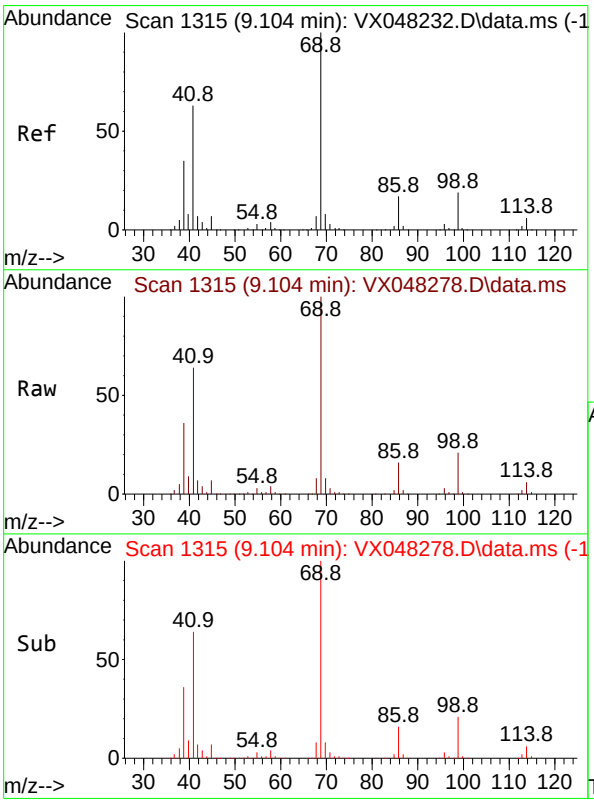
#55
1,1,2-Trichloroethane
Concen: 48.711 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 59379

Ion	Ratio	Lower	Upper
97	100		
83	83.1	70.6	105.8
85	52.9	45.0	67.6
99	62.3	50.9	76.3

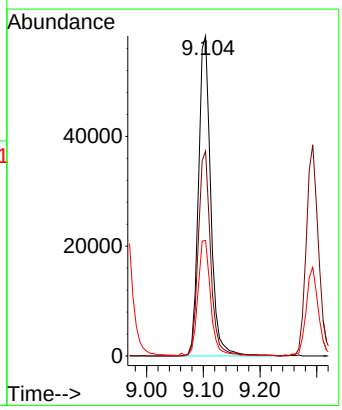


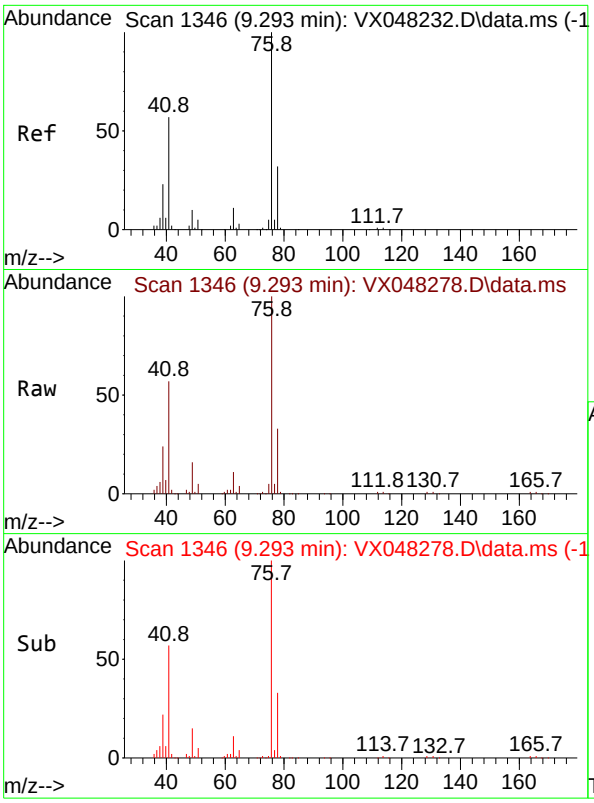


#56
Ethyl methacrylate
Concen: 49.025 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 69 Resp: 87411

Ion	Ratio	Lower	Upper
69	100		
41	64.9	56.0	84.0
39	38.0	31.6	47.4



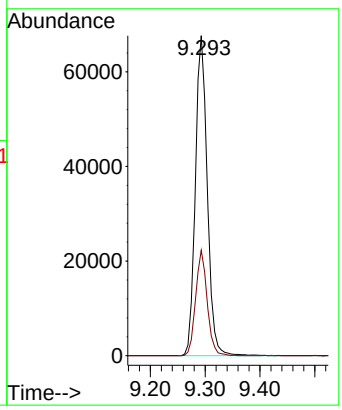


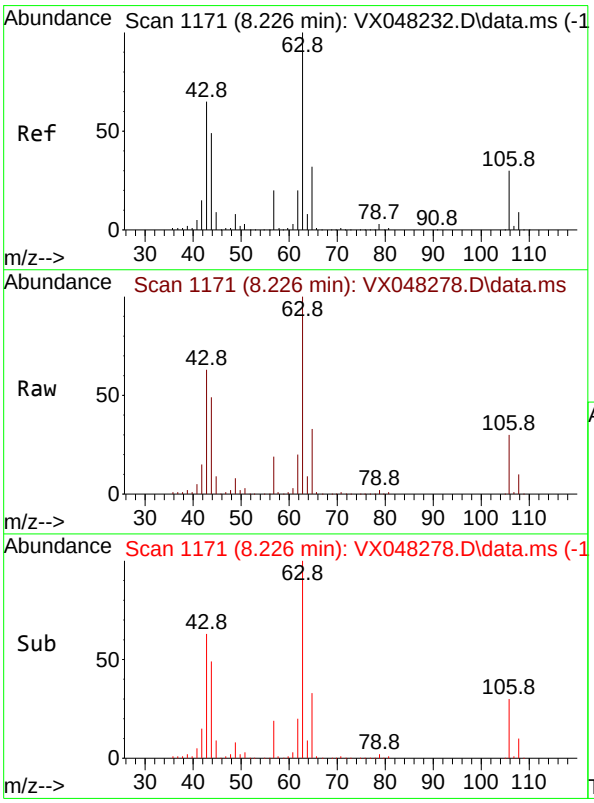
#57
1,3-Dichloropropane
Concen: 49.295 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 102643

Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.4	38.0

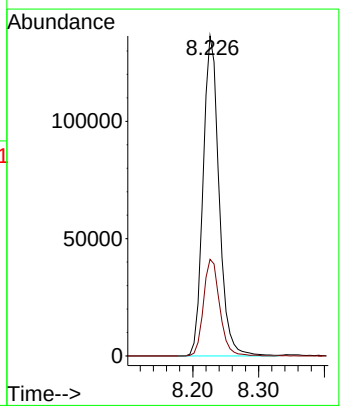


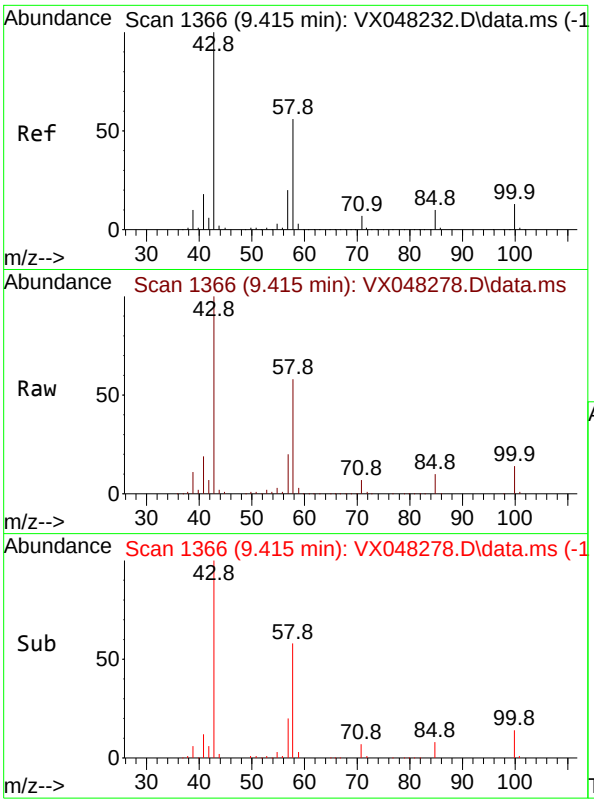


#58
2-Chloroethyl Vinyl ether
Concen: 240.651 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 63 Resp: 230656

Ion	Ratio	Lower	Upper
63	100		
106	30.7	22.2	33.2



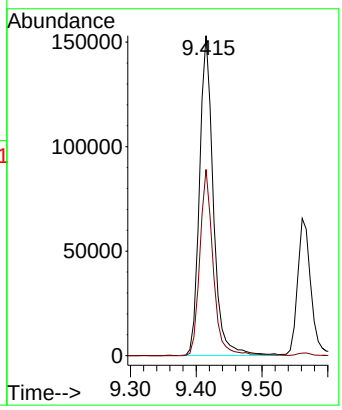


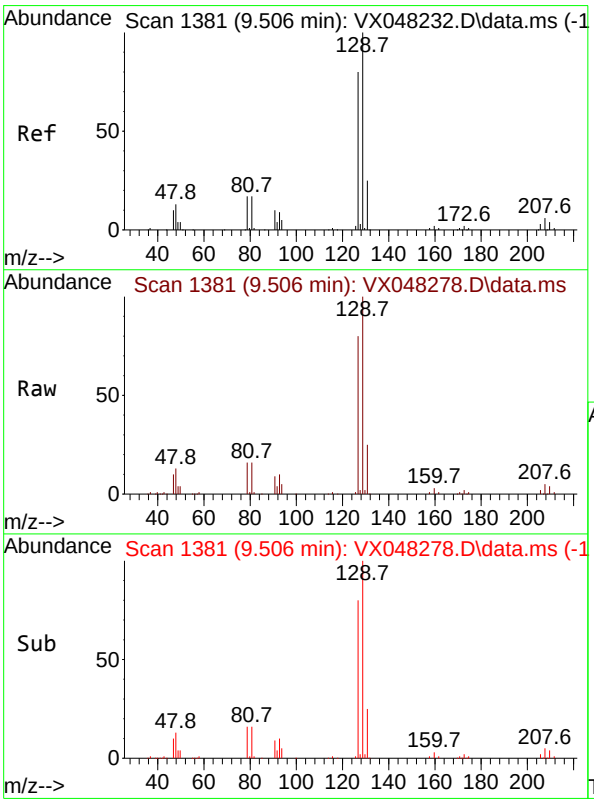
#59
2-Hexanone
Concen: 229.287 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 223051

Ion	Ratio	Lower	Upper
43	100		
58	56.4	26.3	78.8

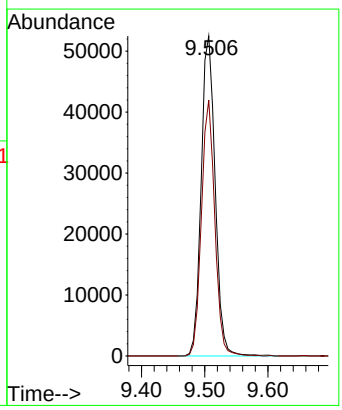


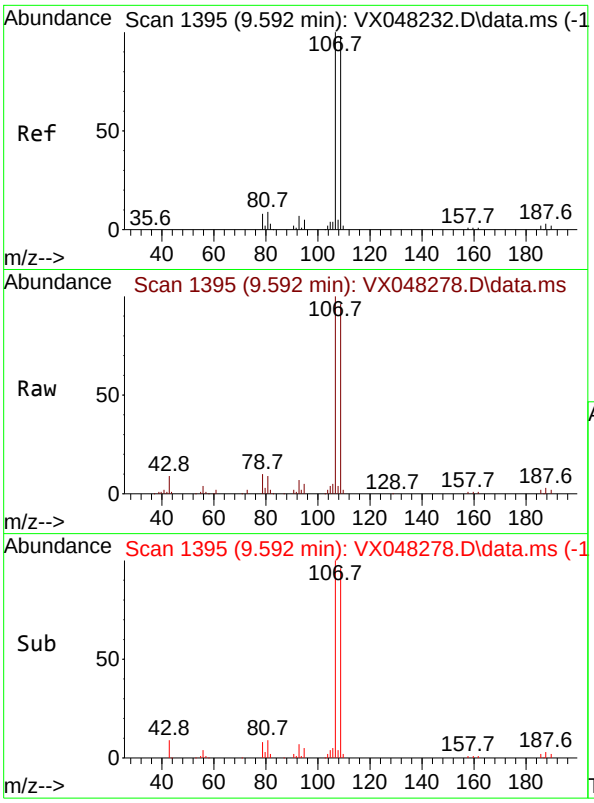


#60
Dibromochloromethane
Concen: 49.293 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:129 Resp: 80763

Ion	Ratio	Lower	Upper
129	100		
127	76.6	38.6	115.7



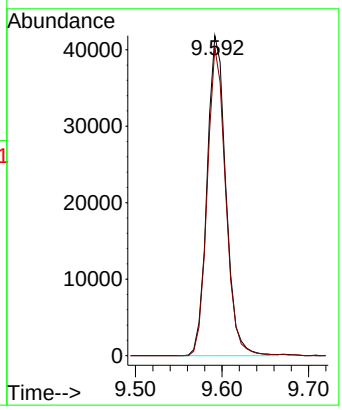


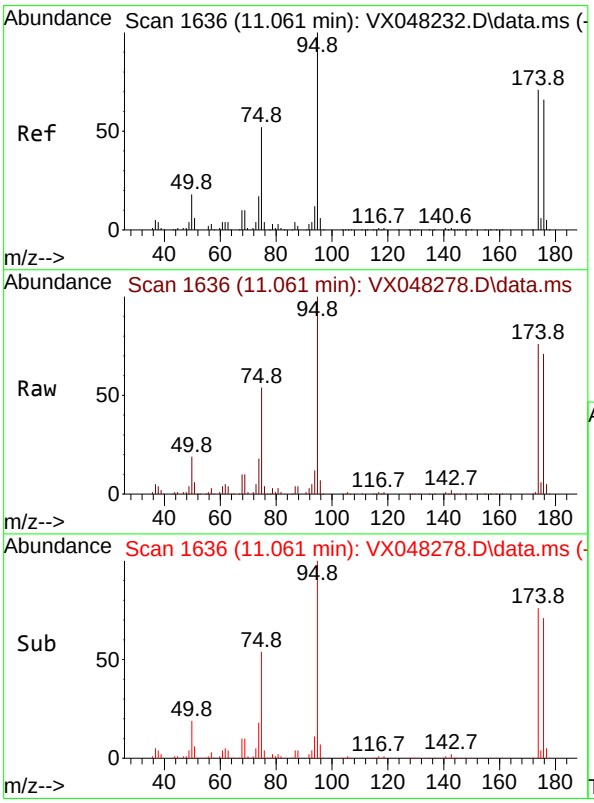
#61
1,2-Dibromoethane
Concen: 48.532 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 63070

Ion	Ratio	Lower	Upper
107	100		
109	94.6	77.0	115.4

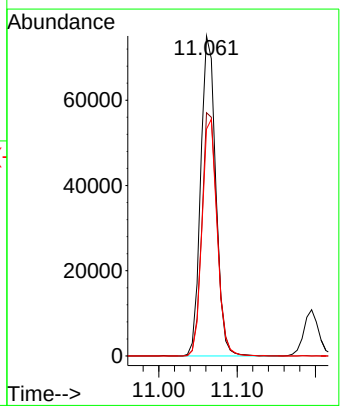


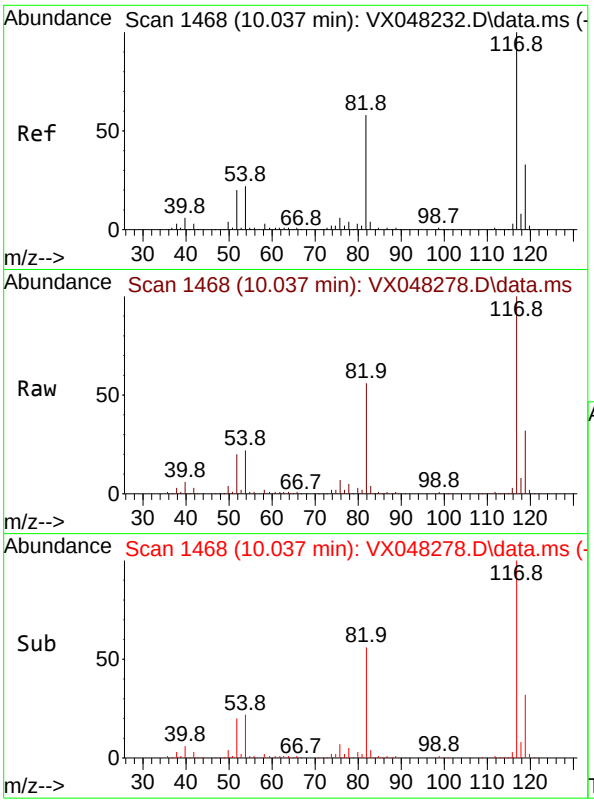


#62
4-Bromofluorobenzene
Concen: 60.121 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 95 Resp: 100241

Ion	Ratio	Lower	Upper
95	100		
174	76.9	0.0	147.8
176	73.9	0.0	142.8



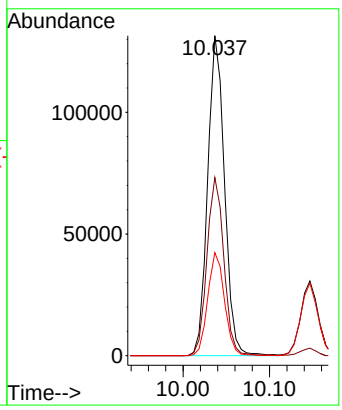


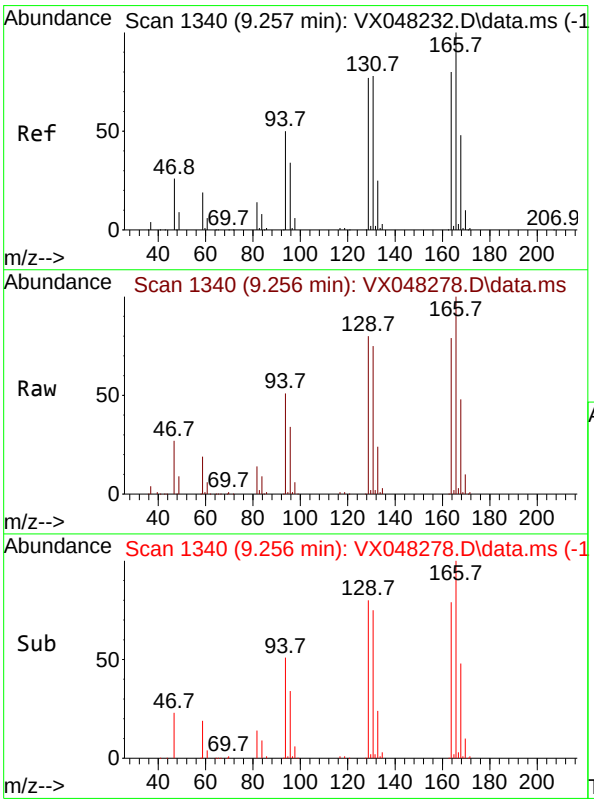
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 177679

Ion	Ratio	Lower	Upper
117	100		
82	55.7	46.5	69.7
119	32.2	25.9	38.9

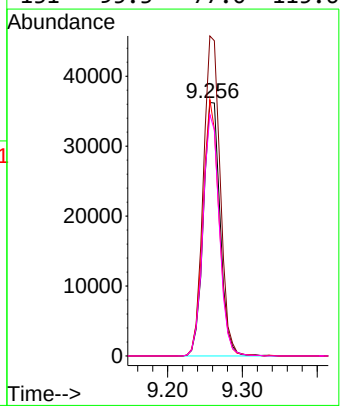


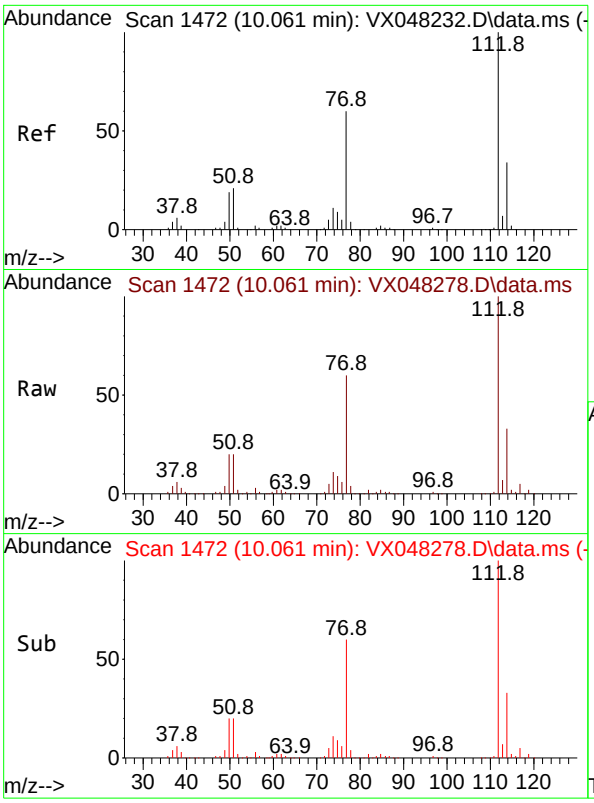


#64
Tetrachloroethene
Concen: 42.374 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:164 Resp: 56206

Ion	Ratio	Lower	Upper
164	100		
166	126.2	104.5	156.7
129	101.1	81.8	122.6
131	95.3	77.0	115.6



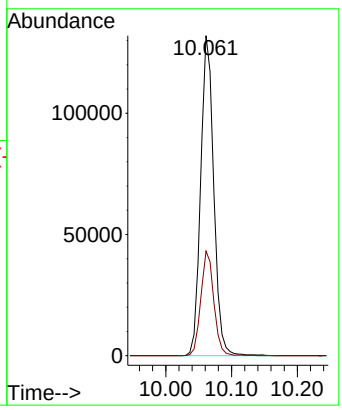


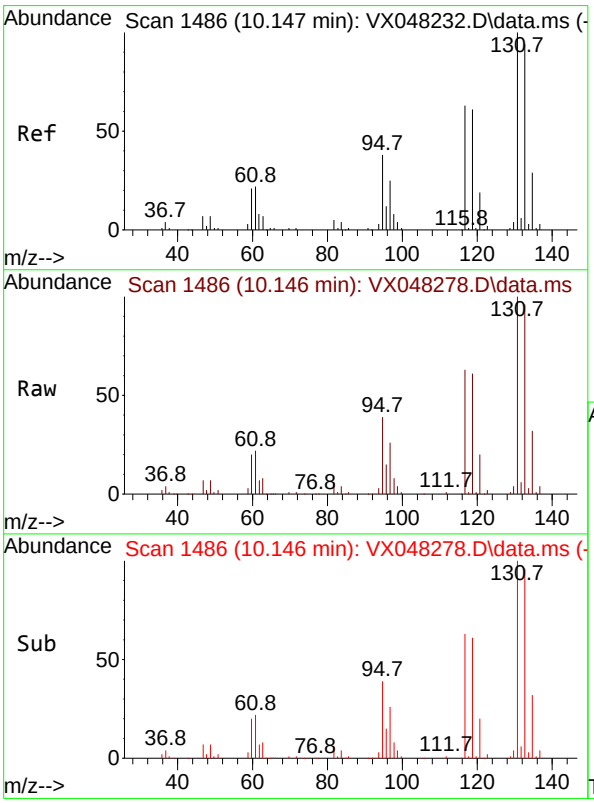
#65
Chlorobenzene
Concen: 45.637 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 182408

Ion	Ratio	Lower	Upper
112	100		
114	32.6	26.2	39.2

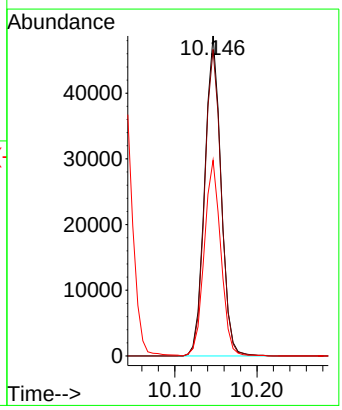


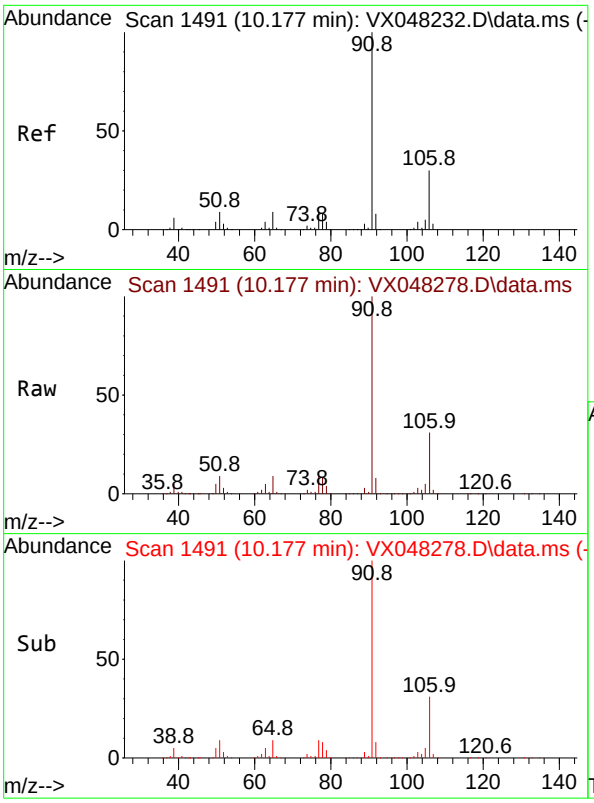


#66
1,1,1,2-Tetrachloroethane
Concen: 45.726 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:131 Resp: 67128

Ion	Ratio	Lower	Upper
131	100		
133	96.7	47.6	142.8
119	62.0	32.5	97.5



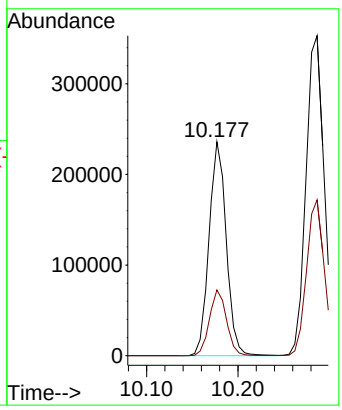


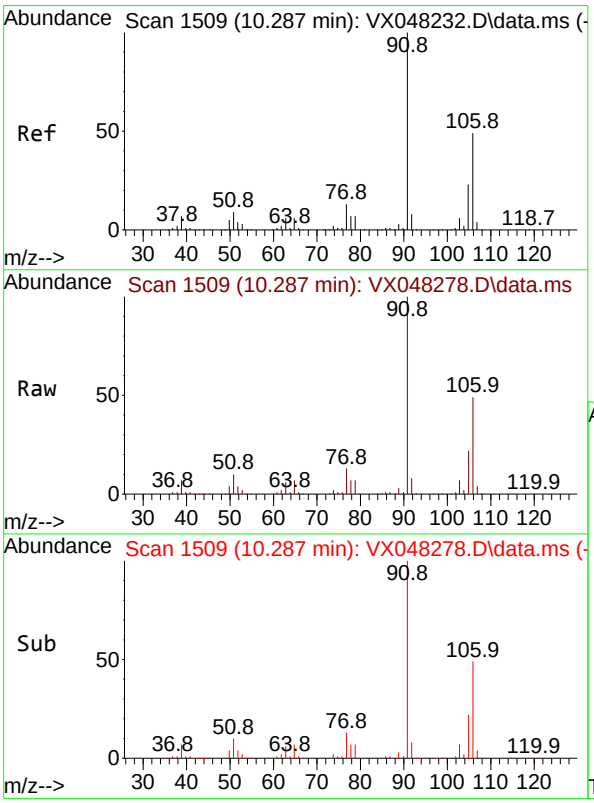
#67
Ethyl Benzene
Concen: 45.338 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 308525

Ion	Ratio	Lower	Upper
91	100		
106	30.7	23.8	35.6

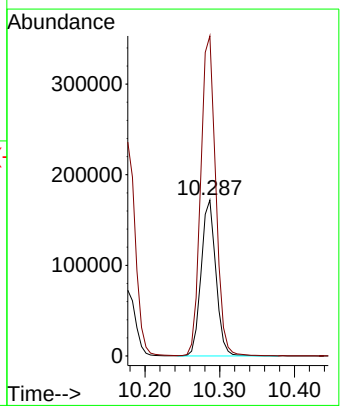


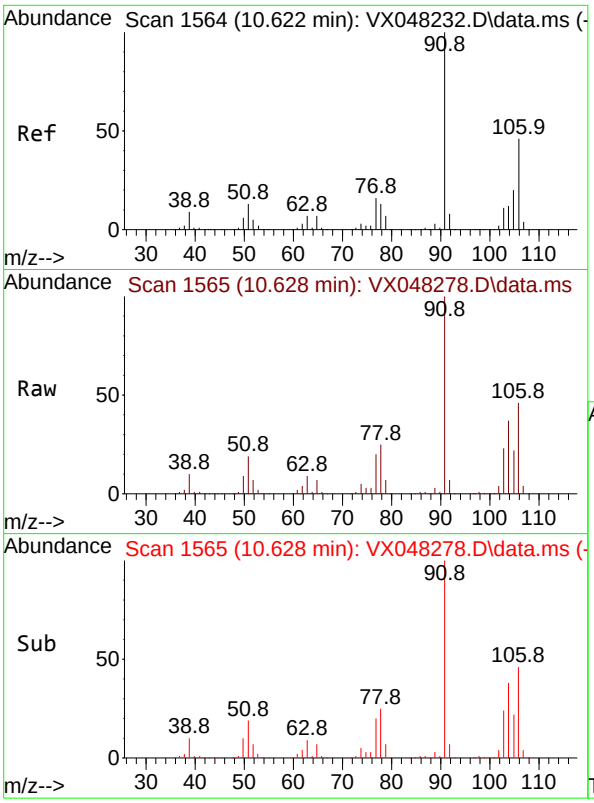


#68
m/p-Xylenes
Concen: 93.046 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:106 Resp: 235258

Ion	Ratio	Lower	Upper
106	100		
91	209.5	167.9	251.9



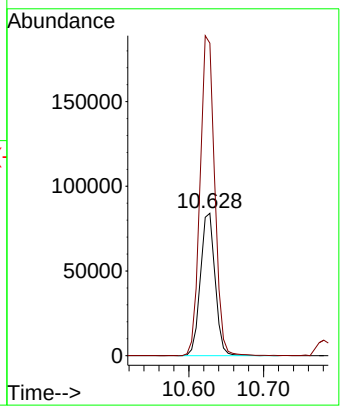


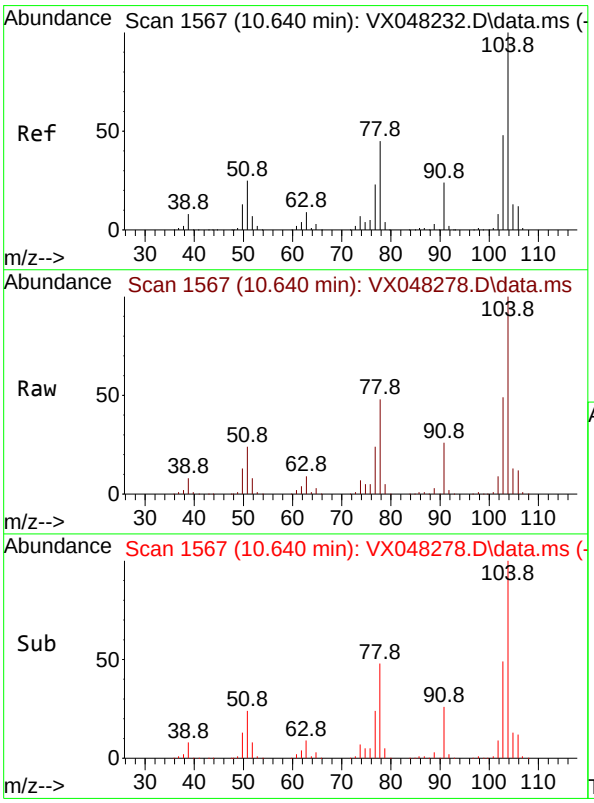
#69
o-Xylene
Concen: 46.976 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 114670

Ion	Ratio	Lower	Upper
106	100		
91	223.5	111.3	333.9

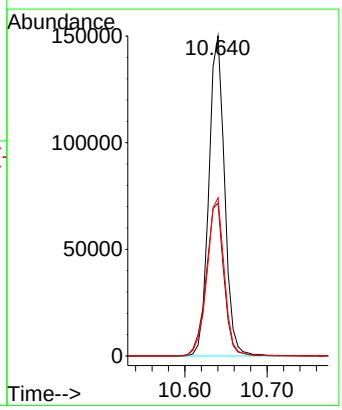


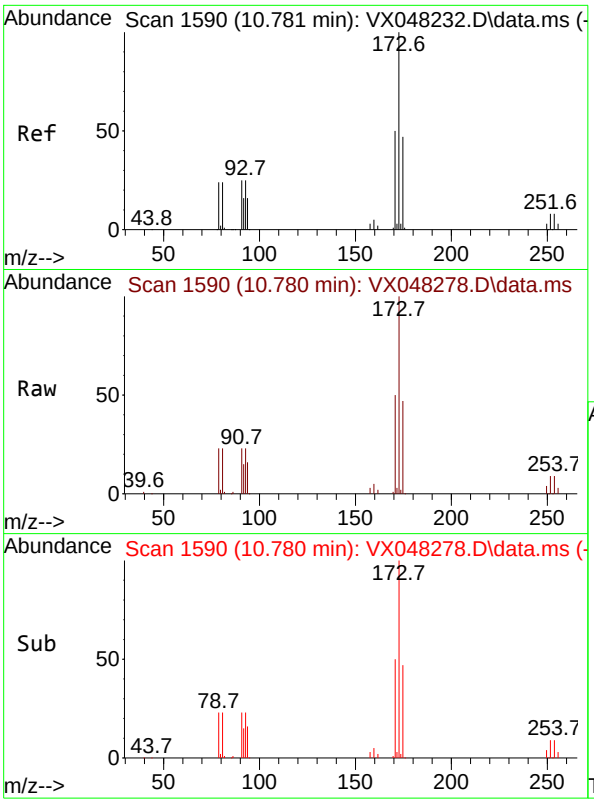


#70
Styrene
Concen: 48.144 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:104 Resp: 200106

Ion	Ratio	Lower	Upper
104	100		
78	53.5	42.2	63.4
103	54.2	43.0	64.4



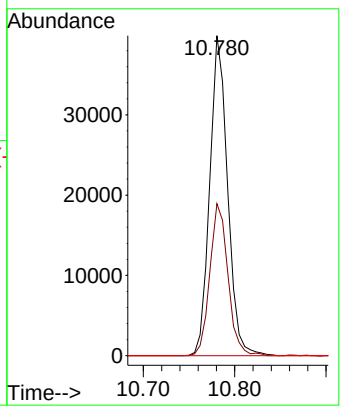


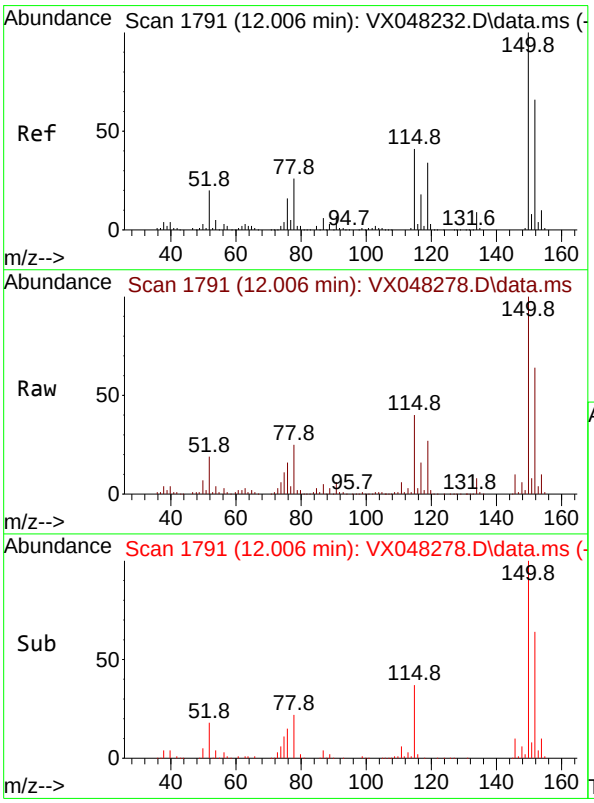
#71
Bromoform
Concen: 46.009 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 53984

Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.0	72.0
254	0.0	0.0	0.0

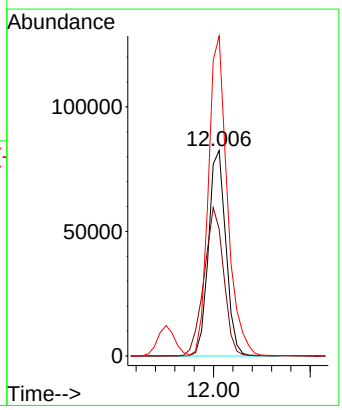


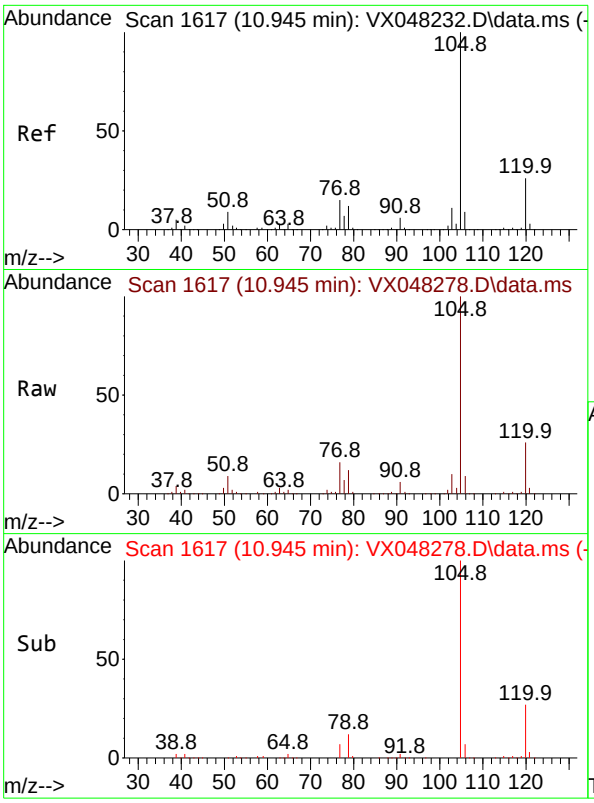


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:152 Resp: 103139

Ion	Ratio	Lower	Upper
152	100		
115	81.5	43.1	129.4
150	168.7	0.0	353.0



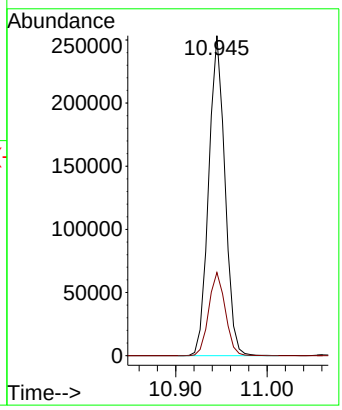


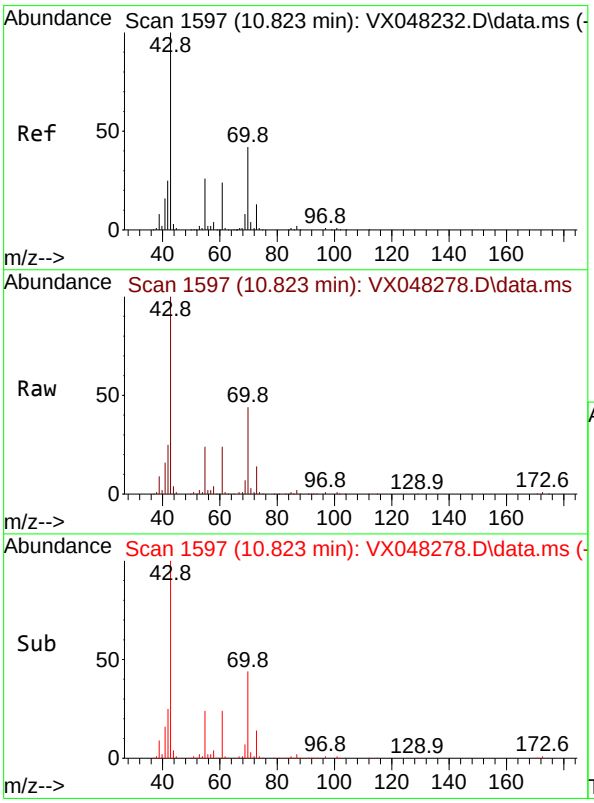
#73
Isopropylbenzene
Concen: 41.323 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 311296

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.0	38.9

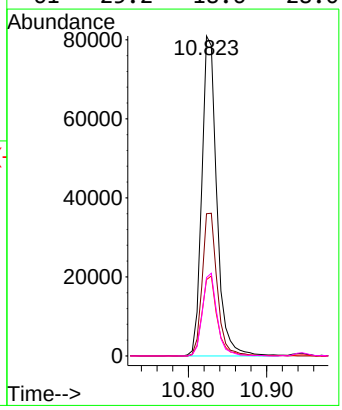


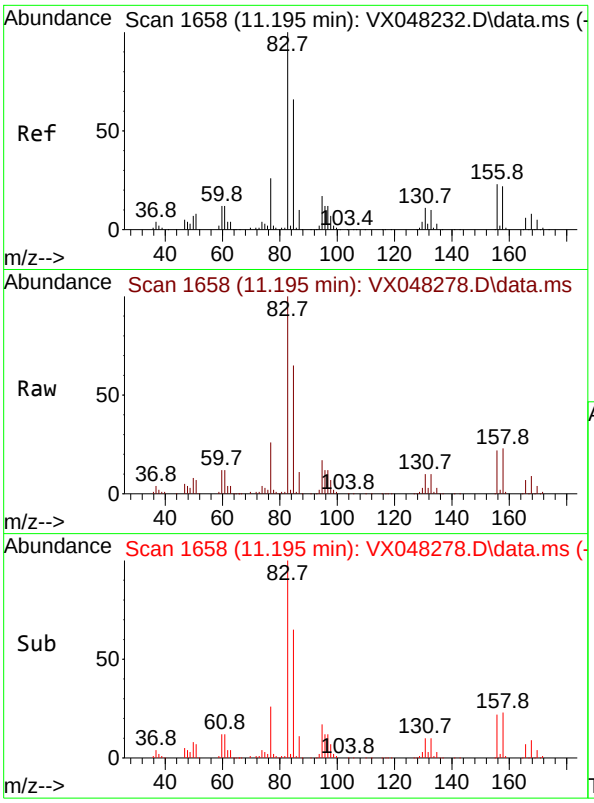


#74
N-amyl acetate
Concen: 40.243 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 43 Resp: 107536

Ion	Ratio	Lower	Upper
43	100		
70	44.7	32.2	48.2
55	25.2	19.1	28.7
61	25.2	18.6	28.0





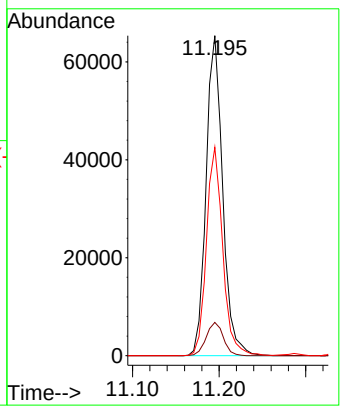
#75
1,1,2,2-Tetrachloroethane
Concen: 42.247 ug/l
RT: 11.195 min Scan# 1

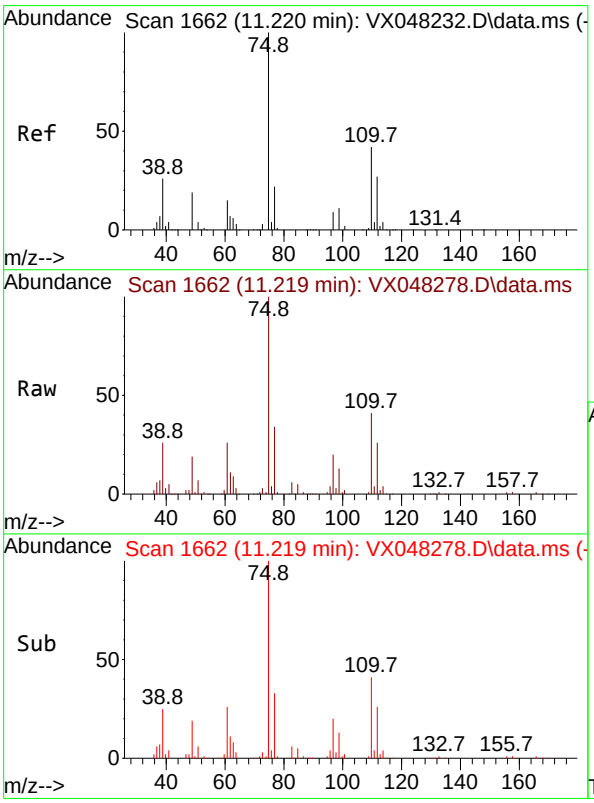
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 83 Resp: 86911

Ion	Ratio	Lower	Upper
83	100		
131	10.8	4.8	14.4
85	64.2	31.9	95.7

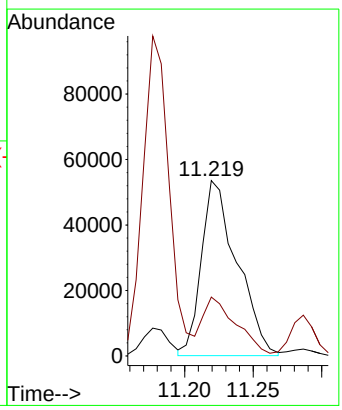


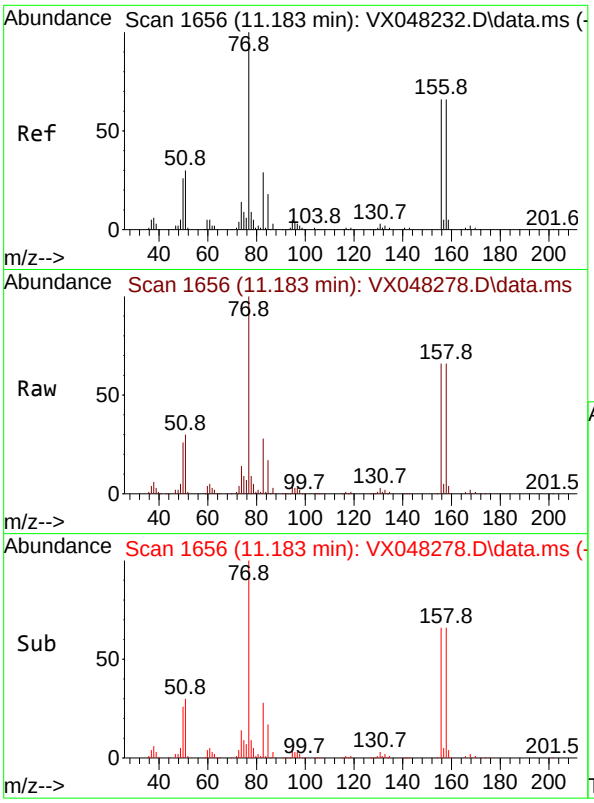


#76
1,2,3-Trichloropropane
Concen: 58.080 ug/l
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 75 Resp: 97142

Ion	Ratio	Lower	Upper
75	100		
77	31.3	22.4	67.2



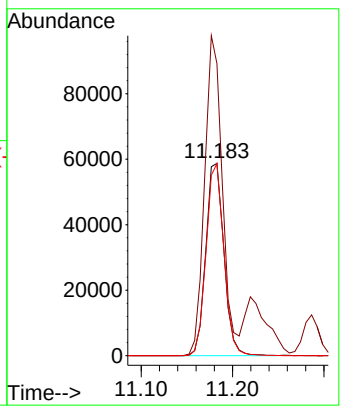


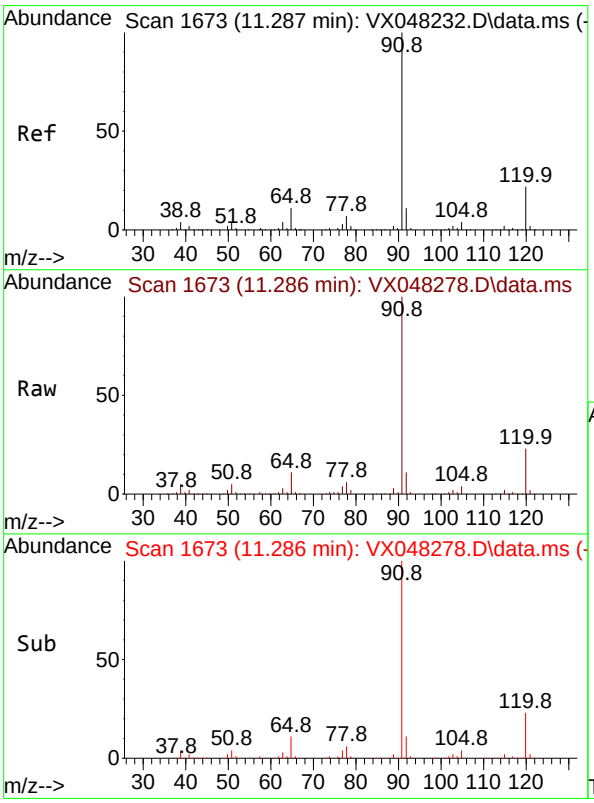
#77
Bromobenzene
Concen: 42.643 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 80549

Ion	Ratio	Lower	Upper
156	100		
77	162.8	87.0	261.0
158	98.1	47.8	143.4

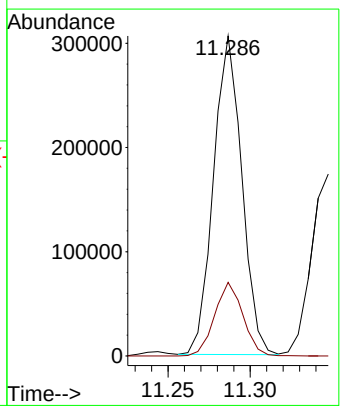


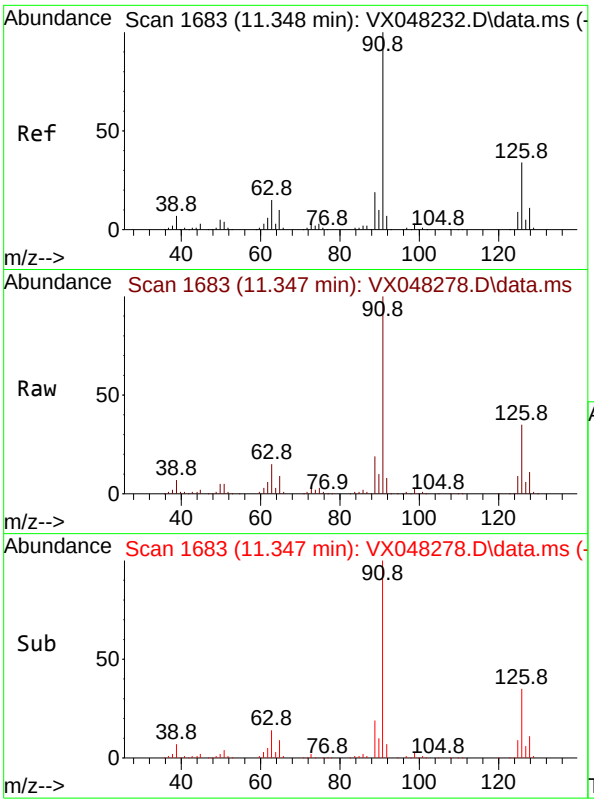


#78
n-propylbenzene
Concen: 41.944 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 91 Resp: 365847

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.1	33.1



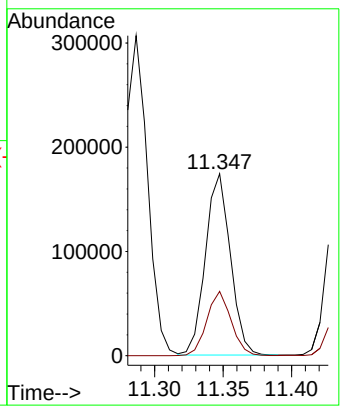


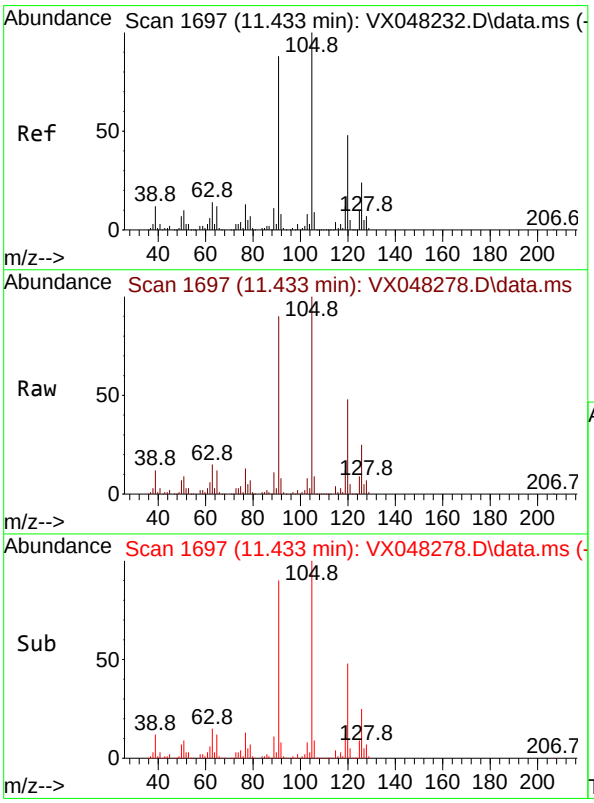
#79
2-Chlorotoluene
Concen: 41.700 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 220518

Ion	Ratio	Lower	Upper
91	100		
126	34.6	16.4	49.4

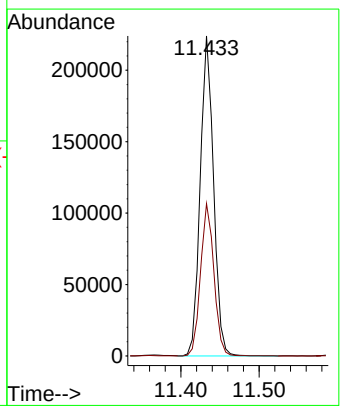


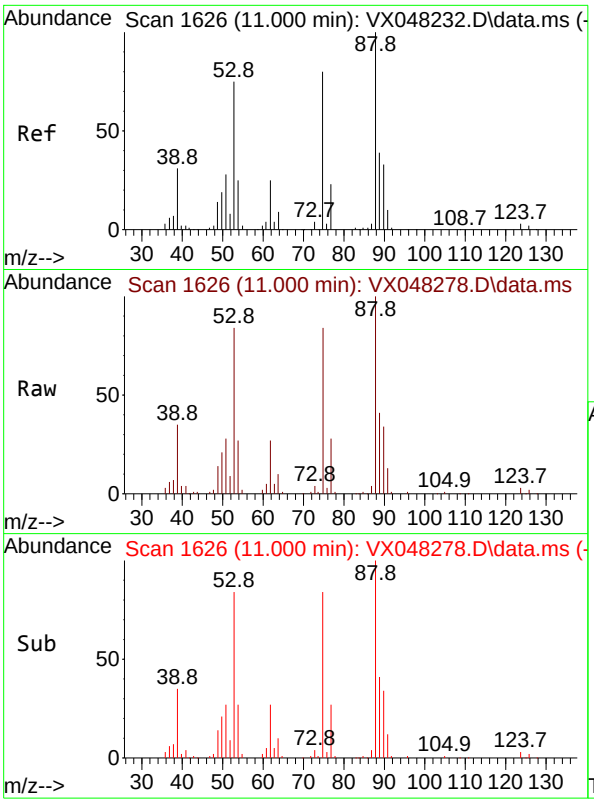


#80
1,3,5-Trimethylbenzene
Concen: 42.365 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:105 Resp: 264110

Ion	Ratio	Lower	Upper
105	100		
120	47.9	24.0	72.0



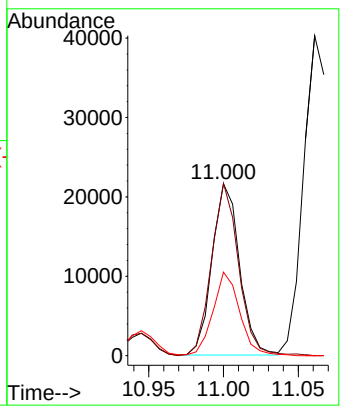


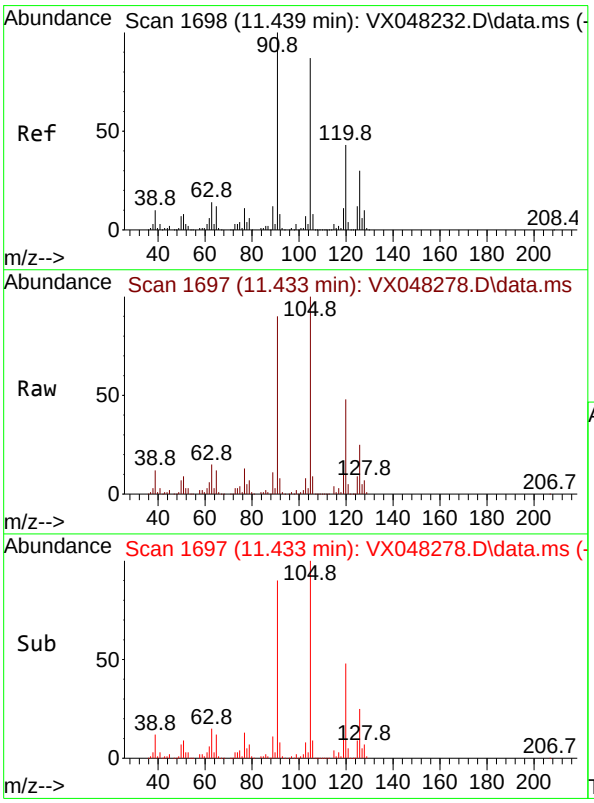
#81
trans-1,4-Dichloro-2-butene
Concen: 40.195 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 27633

Ion	Ratio	Lower	Upper
75	100		
53	99.4	79.5	119.3
89	47.4	36.8	55.2

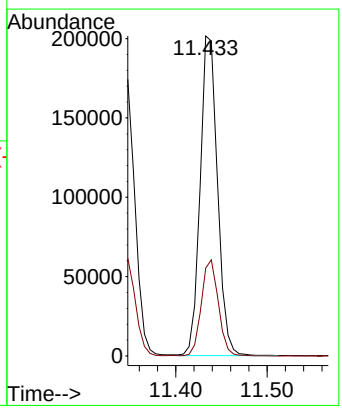


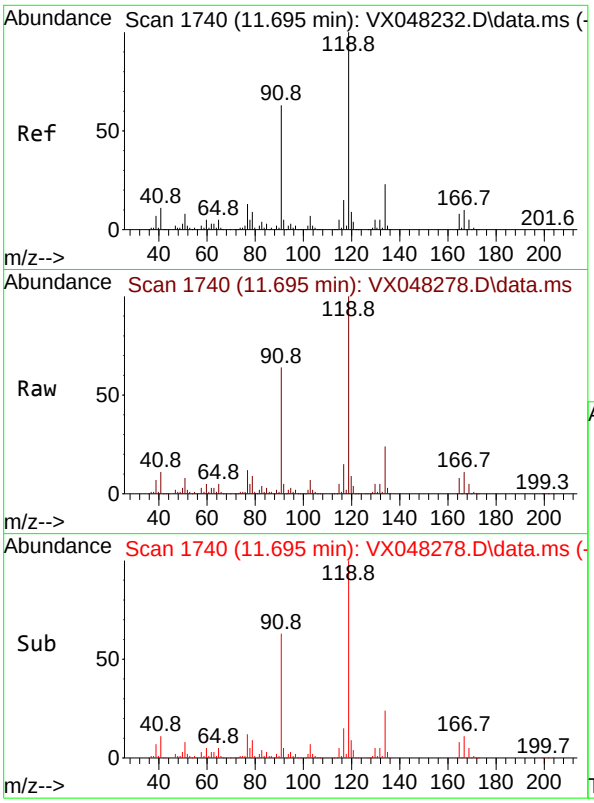


#82
4-Chlorotoluene
Concen: 42.258 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 91 Resp: 265279

Ion	Ratio	Lower	Upper
91	100		
126	29.4	14.1	42.4



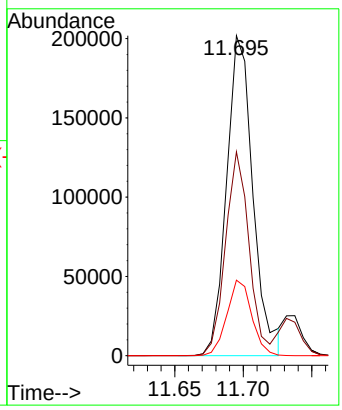


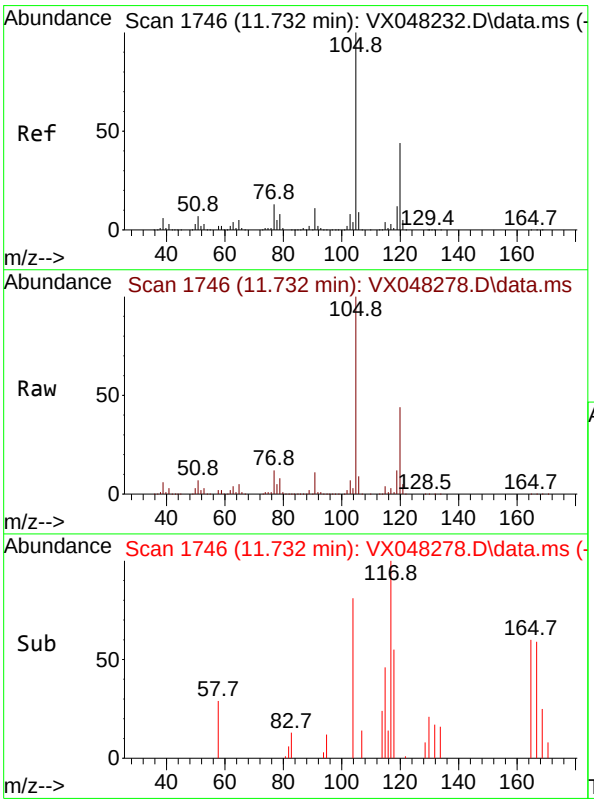
#83
tert-Butylbenzene
Concen: 42.107 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 269712

Ion	Ratio	Lower	Upper
119	100		
91	57.2	30.3	91.0
134	22.3	11.4	34.2

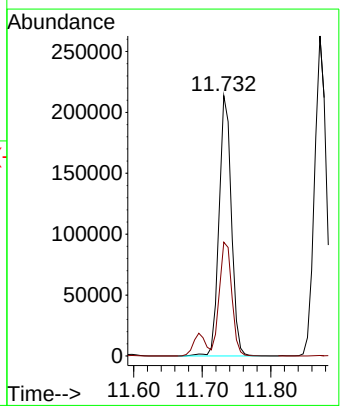


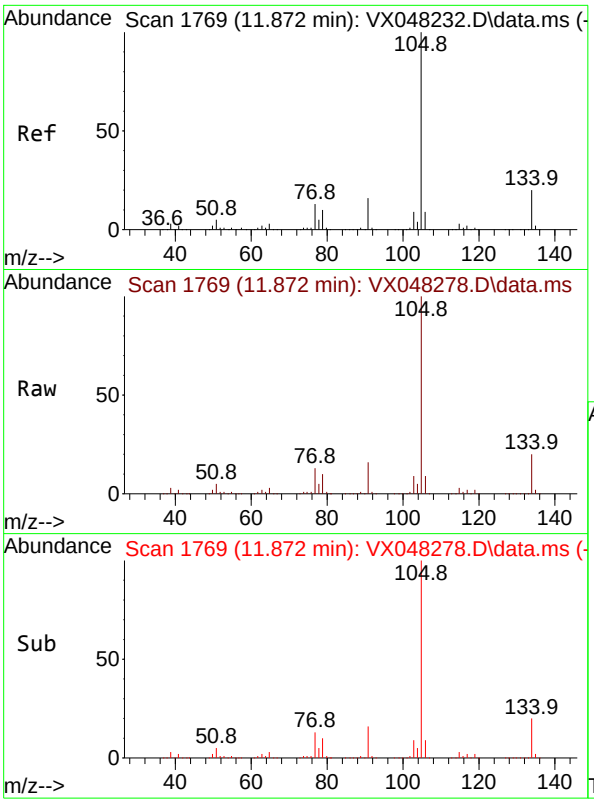


#84
1,2,4-Trimethylbenzene
Concen: 42.577 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:105 Resp: 264898

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.1	66.5



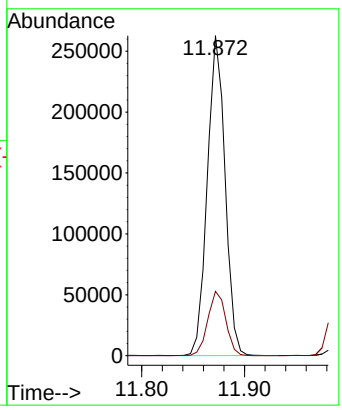


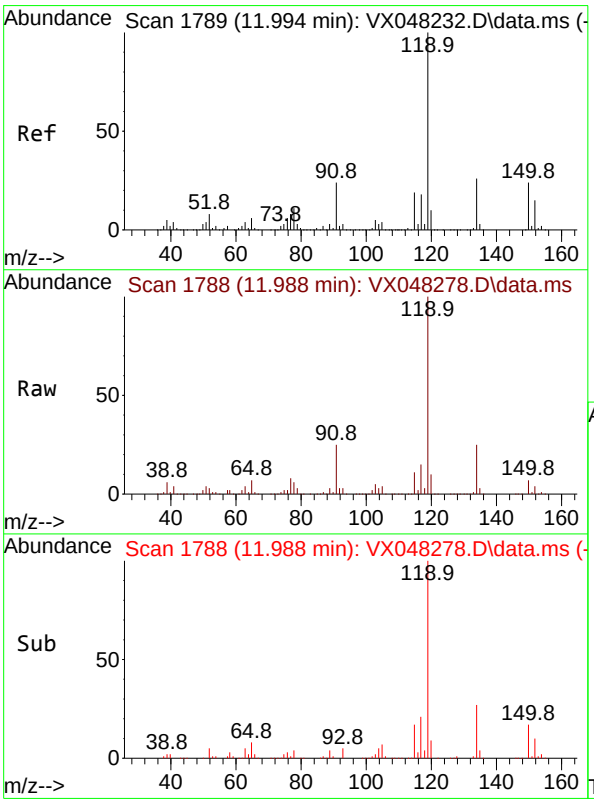
#85
sec-Butylbenzene
Concen: 40.863 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 314902

Ion	Ratio	Lower	Upper
105	100		
134	20.5	10.1	30.1

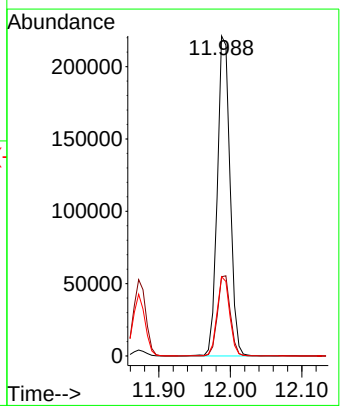


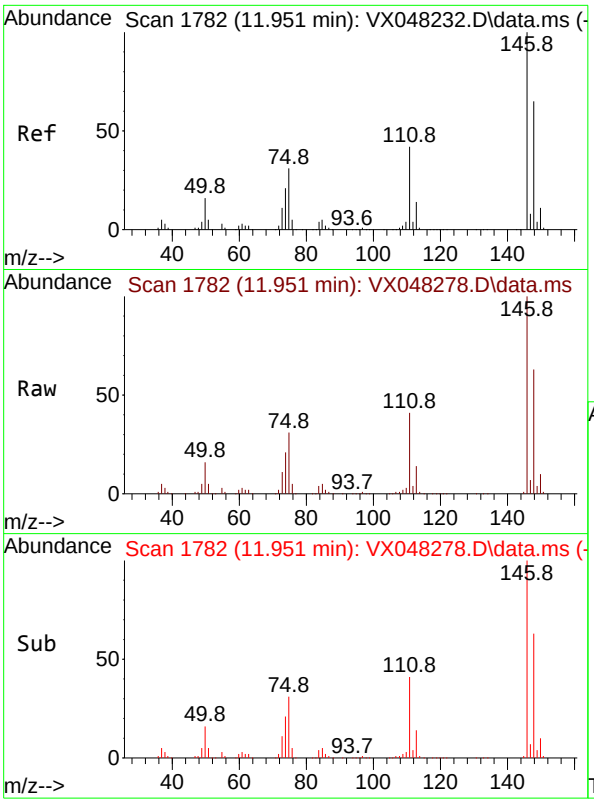


#86
p-Isopropyltoluene
Concen: 40.931 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:119 Resp: 272639

Ion	Ratio	Lower	Upper
119	100		
134	25.2	13.0	39.0
91	24.5	12.1	36.3



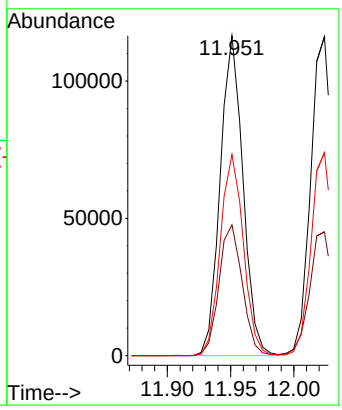


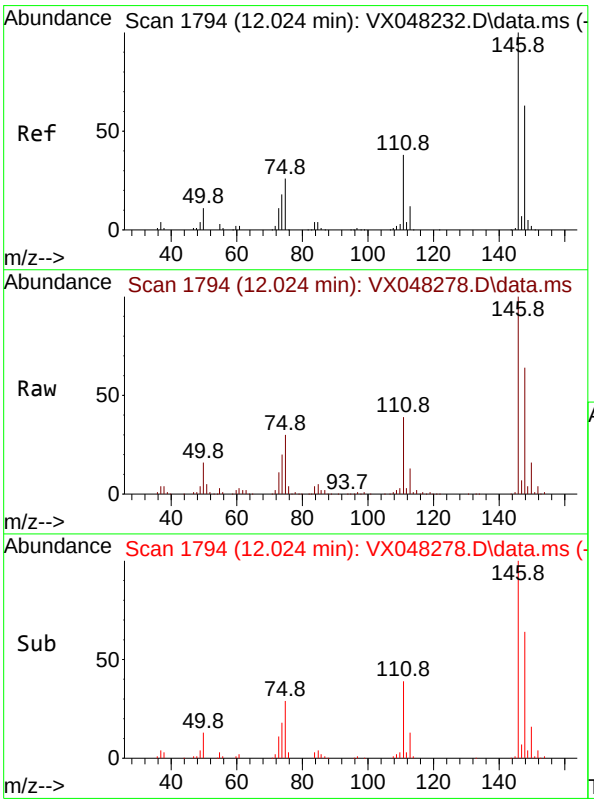
#87
1,3-Dichlorobenzene
Concen: 40.908 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 145669

Ion	Ratio	Lower	Upper
146	100		
111	42.1	20.4	61.2
148	63.9	31.9	95.9

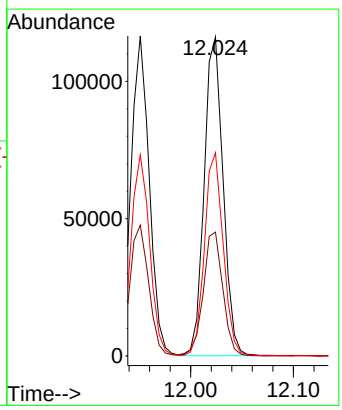


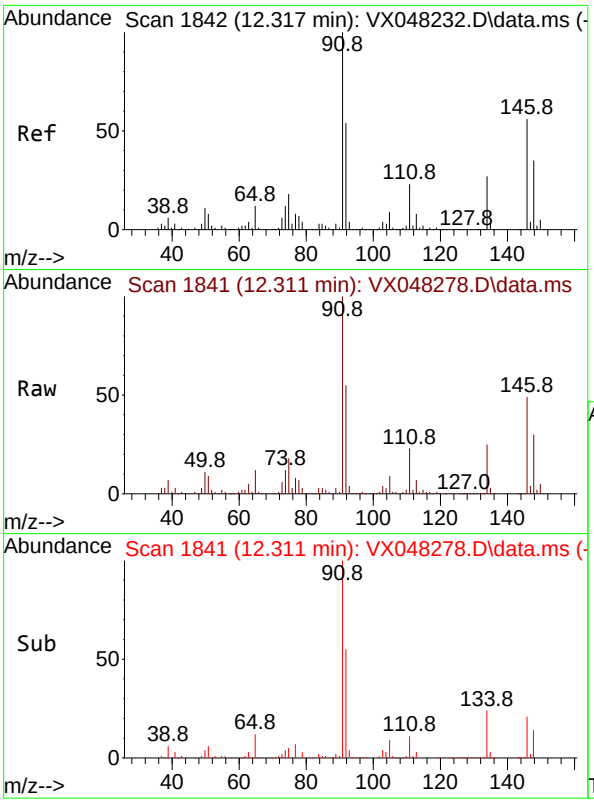


#88
1,4-Dichlorobenzene
Concen: 40.270 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:146 Resp: 148555

Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.1	60.2
148	63.4	31.8	95.3



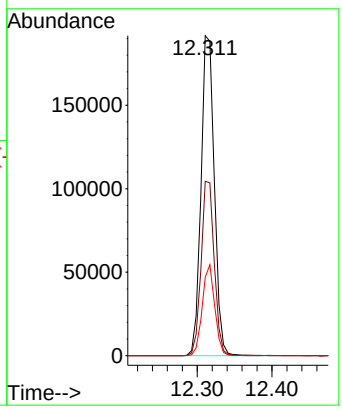


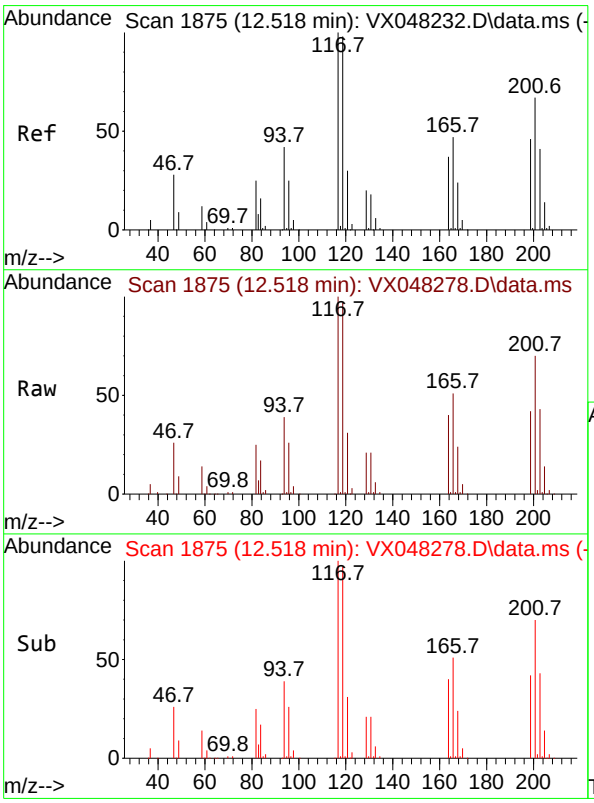
#89
n-Butylbenzene
Concen: 39.088 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 236982

Ion	Ratio	Lower	Upper
91	100		
92	54.0	26.9	80.6
134	26.6	12.7	38.1

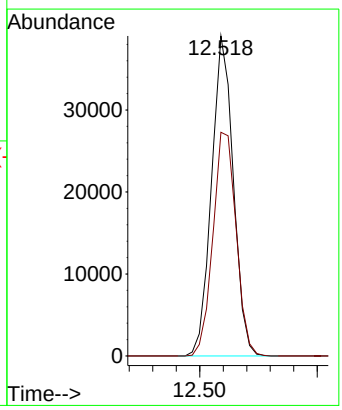


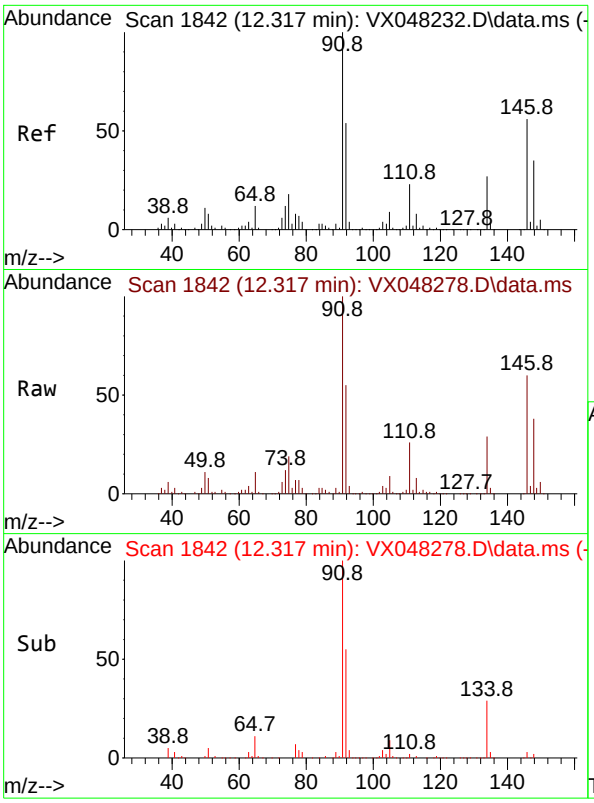


#90
Hexachloroethane
Concen: 38.153 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:117 Resp: 50186

Ion	Ratio	Lower	Upper
117	100		
201	74.6	34.1	102.2



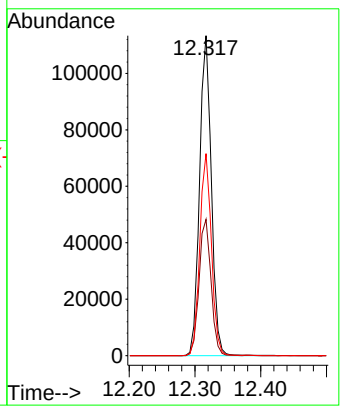


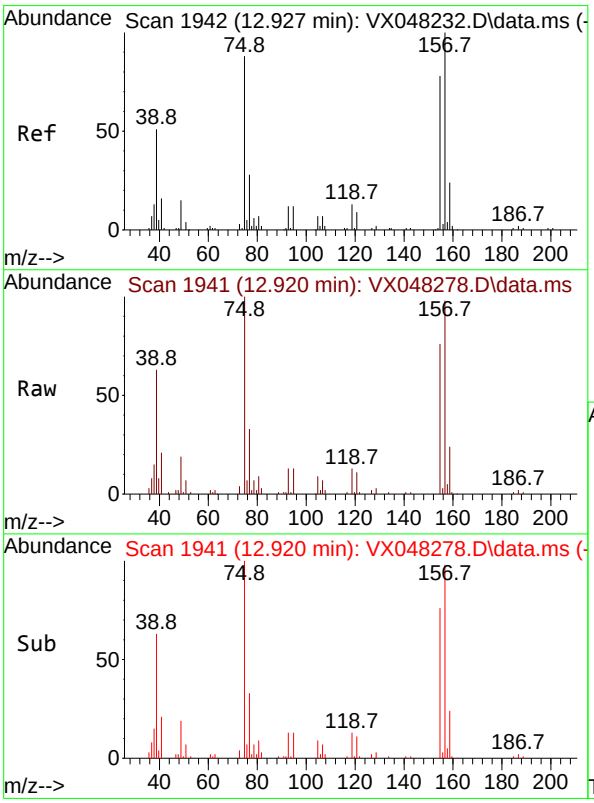
#91
1,2-Dichlorobenzene
Concen: 42.066 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 140638

Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.9	65.5
148	62.7	31.9	95.5

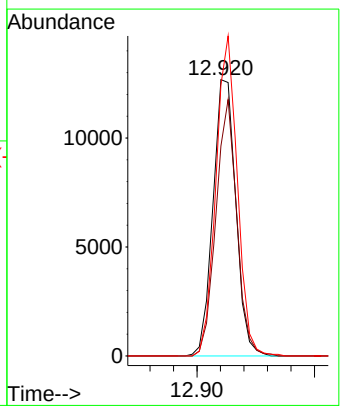


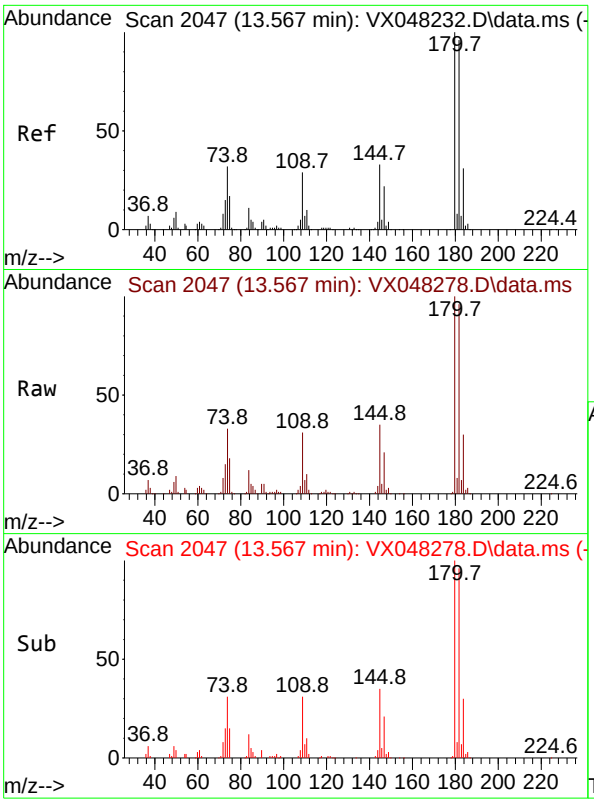


#92
1,2-Dibromo-3-Chloropropane
Concen: 40.930 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion: 75 Resp: 17092

Ion	Ratio	Lower	Upper
75	100		
155	85.0	42.8	128.4
157	108.8	54.2	162.6



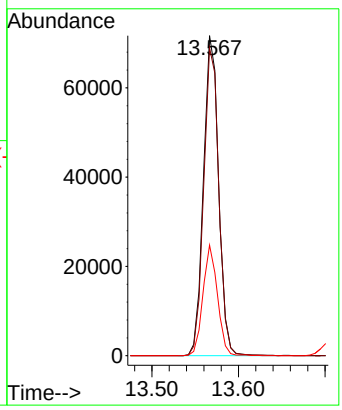


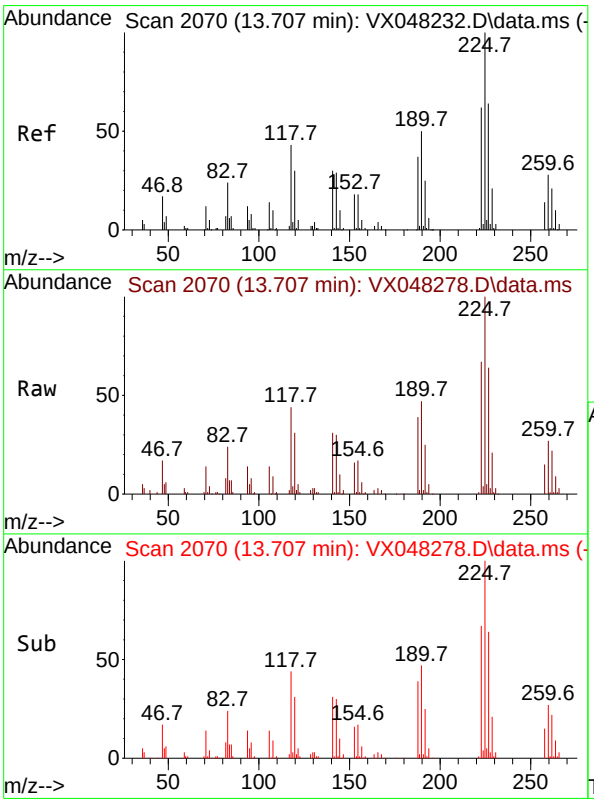
#93
1,2,4-Trichlorobenzene
Concen: 38.490 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 87024

Ion	Ratio	Lower	Upper
180	100		
182	96.2	47.3	142.0
145	33.1	16.3	48.9

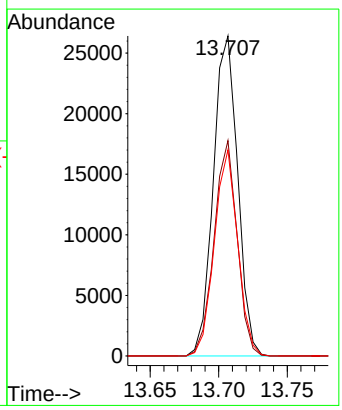


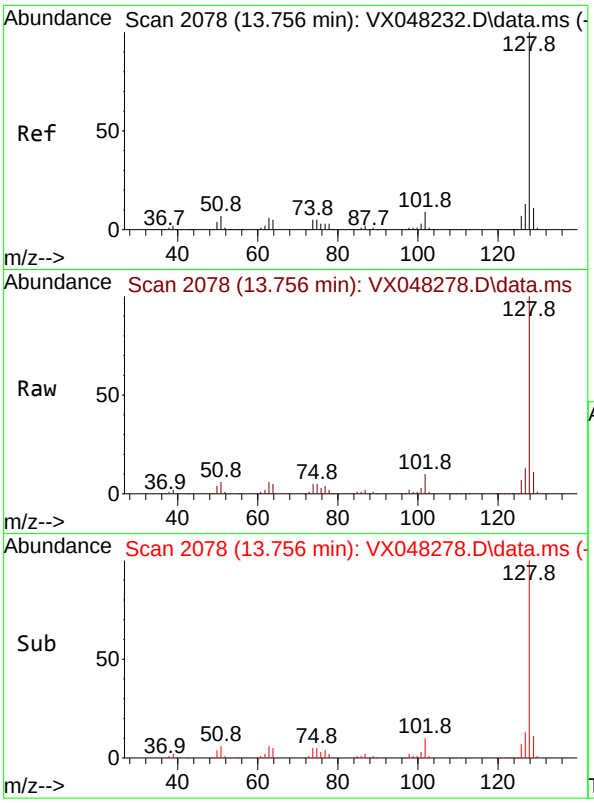


#94
Hexachlorobutadiene
Concen: 38.565 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:225 Resp: 32660

Ion	Ratio	Lower	Upper
225	100		
223	63.6	32.6	97.7
227	61.7	32.5	97.4



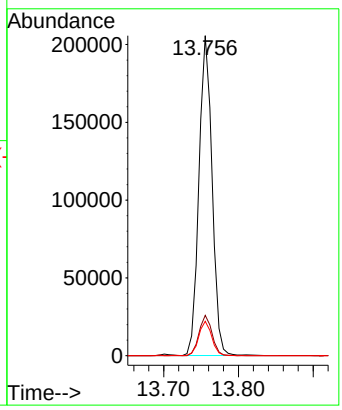


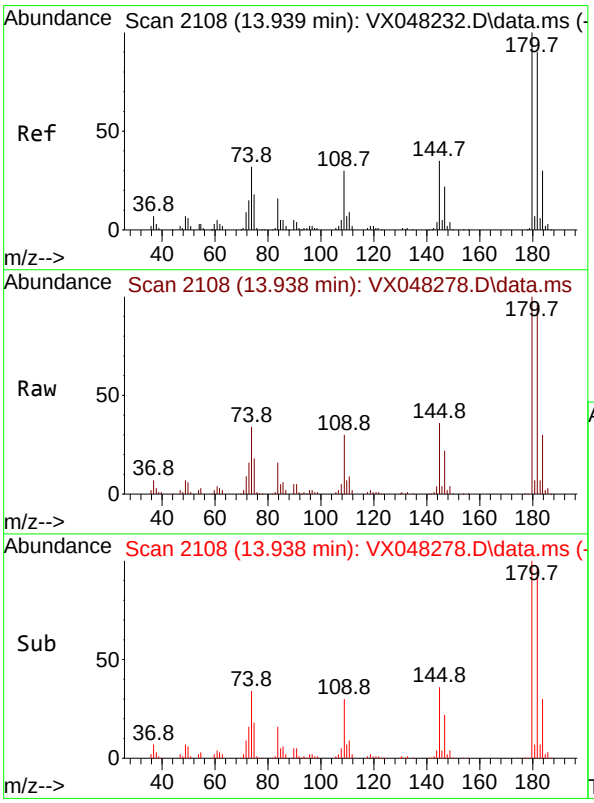
#95
Naphthalene
Concen: 41.822 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 250514

Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.4
129	10.7	8.6	12.8





#96
1,2,3-Trichlorobenzene
Concen: 40.246 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX048278.D
Acq: 21 Oct 2025 18:09

Tgt Ion:180 Resp: 83499

Ion	Ratio	Lower	Upper
180	100		
182	94.9	46.6	139.7
145	34.5	16.9	50.7

